

Air Conditioning System

Installation Manual

for



(Revised: July 14, 2023, Rev: AD)

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RECORD OF REVISIONS

Revision	Description	Date	Revised By
IR	Initial Release	04 Nov. 2009	IFS
А	Revised Compressor Install	05 Feb. 2010	IFS
В	Added EMI-RFI filter	28 Jan. 2011	IFS
С	Updated sect. 11, 12, 13, 14 & 15	21 Mar. 2011	IFS
D	Section 1 & 6 Revised	20 May, 2011	IFS
E	Updated Section 1	14 Feb. 2013	RSG
F	Updated Section 1	19 Mar. 2014	RSG
G	Formatted document to RSG Products	01 Jun. 2015	RSG
Н	Updated sections 1, 5 – 8, & 11	06 Nov. 2015	RSG
К	Updated Section 1	24 Mar. 2016	RSG
L	Updated sections 1, 5-7, and 9 and 11.	03 Mar. 2017	RSG
М	Updated sections 1, 6, 7, & 8	25 Sept. 2018	RSG
Ν	Updated Section 1	25 Jan. 2019	RSG
Р	Updated Section 1	20 Jan. 2020	RSG
R	Updated Section 1	17 Mar. 2020	RSG
S	Updated MSDS Section 1	4 June 2020	RSG
Т	Updated sections 5 & 6	3 July 2021	RSG
U	Updated sections 1 & 7	11 Nov. 2021	RSG
V	Updated section 9	16 Dec. 2021	RSG
W	Updated section 5 & 7	18 Mar. 2022	RSG
Х	Updated section 1, 5 & 7	26 May 2022	RSG
Y	Updated sections 1, & 5-14	13 Aug. 2022	RSG
AA	Updated sections 5, 7, 8, 10, 11, & 12	5 Dec. 2022	RSG
AB	Updated section 1, 5, 7, 8, 11, & 14	17 Mar. 2023	RSG
AC	Updated section 1	17 April 2023	RSG
AD	Updated section 1 kit list	14 July 2023	RSG

LIST OF EFFECTIVE PAGES

Rev	Section	Pgs	Description	Date
Y	1	10	Updated 1-3-AS350 drawing	08/13/22
D	1	Insert	Revised Parts List	05/20/11

E	1	Insert	Revised Parts List	02/14/13
F	1	Insert	Revised Parts List	03/19/14
G	1	Insert	Revised Parts List and added MSDS docs.	06/01/15
H	1	Insert	Revised Parts List	11/06/15
K	1	Insert	Revised Parts List	03/24/16
L	1	Insert	Revised Parts List	03/03/17
M	1	Insert	Revised Parts List	09/25/18
N	1	Insert	Revised Parts List	01/25/19
P	1	Insert	Revised Parts List	01/20/20
R	1	Insert	Revised Parts List	03/17/20
U	1	Insert	Revised Parts List	11/11/21
X	1	12-27	Revised Kit Parts List	05/26/22
Ŷ	1	11-26	Revised Kit Parts List	
	1			08/13/22
AB	1	7-22	Updated Kit Parts List	03/17/23
AC		7-22	Revised Kit Inventory List	04/17/23
AD	1	7-22	Revised Kit Inventory List	07/14/23
S	1	28-31	Removed MSDS for spray cans	06/04/20
IR	2	1-4	Initial Release	11/04/09
IR	3	1-3	Initial Release	11/04/09
IR	4	1-2	Initial Release	11/04/09
IR	5	1-5	Initial Release	11/04/09
G	5	Insert	Updated drawings	06/01/15
Н	5	5	Update Step 5.17	11/06/15
Н	5	Insert	Updated drawing	11/06/15
L	5	Insert	Updated drawings.	03/03/17
Т	5	46-51	Updated drawing	07/03/21
W	5	56-58	Updated 5-21-AS350 drawing	03/18/22
Х	5	46-53	Updated 4-3-AS350 drawing	05/26/22
Y	5	45-51	Updated 4-3-AS350 drawing	08/13/22
AA	5	45-61	Updated 4-3-AS350, 4-13-AS350 & 5-10-AS350 drawings	12/05/22
AB	5	45-56	Updated 4-3-AS350 drawing	03/17/23
Y	5	53-57	Updated 5-10-AS350 drawing	08/13/22
Х	5	58-66	Updated 5-21-AS350 & 3-4-AS350 drawings	05/26/22
Y	5	58-60	Updated 3-4-AS350 drawing	08/13/22
AA	5	66-69	Updated 3-4-AS350 drawing	12/05/22
А	6	1-5	Step 6.22 screw increased length.	05/20/11
G	6	4	Step 6.20 Type of fiberglass	06/01/15
G	6	Insert	Updated drawings	06/01/15

Н	6	Insert	Updated drawings	11/06/15
L	6	3	Step 6.12 and 6.14. Updated drawings.	03/03/17
M	6	2	Step 6.6. Updated drawings.	09/25/18
Y	6	62	Updated instructions on Step 6.11	08/13/22
T	6	66-74	Updated drawing	07/03/21
Ý	6	67-70	Updated 7-2-AS350 drawing	08/13/22
Y	6	72-76	Updated 8-2-AS350 & 8-11-AS350 drawings	08/13/22
IR	7	1-2	Initial Release	11/04/09
G	7	3	Step 7.9 and 7.10	06/01/15
G	7	Insert	Updated drawings	06/01/15
Н	7	Insert	Updated drawing	11/06/15
L	7	Insert	Updated drawing	03/03/17
М	7	Insert	Updated drawing	09/25/18
U	7	84-90	Updated 4-21-AS350 drawing	11/11/21
W	7	86-95	Updated 4-21-AS350 drawing	03/18/22
Х	7	78-81	Updated 8-2-AS350	04/18/22
Х	7	85	Added doubler & rivets to Step 7.5	05/26/22
Х	7	87-96	Updated 4-21-AS350 drawing	05/26/22
Y	7	77	Updated instructions in Step 7.7	08/13/22
Y	7	80-88	Updated 4-21-AS350, 5-26-AS350 & 5-10-AS350 drawings	08/13/22
AA	7	89-104	Updated 4-21-AS350, 5-26-AS350 & 5-10-AS350 drawings	12/05/22
AB	7	90-105	Updated 4-21-AS350 & 5-26-AS350 drawings	03/17/23
A	8	1-5	Revised Instructions	02/05/10
G	8	4	Step 8.9	06/01/15
G	8	Insert	Updated drawings	06/01/15
Н	8	4	Updated Step 8.9	11/06/15
М	8	Insert	Updated drawing	09/25/18
Y	8	94	Updated 6-2-AS350 drawing	08/13/22
Y	8	95-98	Updated 6-3-AS350 drawing	08/13/22
AA	8	111-115	Updated 6-3-AS350 drawing	12/05/22
AB	8	116-121	Updated 6-3-AS350 drawing	03/17/23
A	9	1-2	Added EMI-RFI filter	01/28/11
G	9	2	Steps 9.4, 9.6, & 9.7	06/01/15
G	9	Insert	Updated drawings 0	
L	9	Insert	Updated drawings. 03	
V	9	127-131	Updated 2-21-AS350 drawing	12/16/21
Y	9	105	Updated 2-29-AS350 drawing	08/13/22

Y	9	106-107	Updated 2-11-AS350 drawing	08/13/22
Y	9	108-109	Updated 2-21-AS350 drawing	08/13/22
IR	10	1-3	Initial Release	11/04/09
G	10	Insert	Updated drawings	06/01/15
L	10	Insert	Updated drawing.	03/03/17
Y	10	113-115	Updated 3-4-AS350 drawing	08/13/22
AA	10	130-133	Updated 3-4-AS350 drawing	12/05/22
N/A	11	N/A	Removed Weight & Balance, now in I.C.A., STC Amended.	03/21/11
G	11	2	Updated to RSG	06/01/15
G	11	Insert	Updated STC Cover Sheet	06/01/15
G	11	Insert	Updated RFMS's	06/01/15
Н	11	Insert	Updated STC Cover Sheet	11/06/15
Н	11	Insert	Updated RFMS's	11/06/15
L	11	Insert	Added MDL.	03/03/17
Y	11	119-140	Updated STC & foreign applicability	08/13/22
AB	11	140	Moved foreign applicability to website (www.rotorcraftservices.com/customer-support)	03/17/23
AA	11	136	Updated weight & balance information	12/05/22
Y	11	141-152	Updated MDL	08/13/22
AA	11	171-217	Updated RFMS for all models	12/05/22
AB	11	152	Moved RFMSs to website (www.rotorcraftservices.com/customer-support)	03/17/23
С	12	1-100	Updated I.C.A.	03/21/11
G	12	Insert	Updated ICA	06/01/15
Y	12	246-351	Updated ICA to Rev F	08/13/22
AA	12	219-324	Updated ICA to Rev F-1	12/05/22
В	13	1-9	Revised Parts Break Down	03/21/11
G	13	1-5	Updated to RSG	06/01/15
Y	13	353-357	Updated parts break down list	08/13/22
N/A	14	Insert	Air Conditioning Performance Test Procedure & Supporting Documents. (Added)	03/21/11
Y	14	359-364	Updated Warranty Policy, removed warranty claim form & added new RMA form	08/13/22
AB	14	271	Updated Section Title	03/17/23
D	15	1-6	Moved Warranty to Sect. 15. Trouble Shooting now in I.C.A.	03/21/11
Y	15	366-381	Updated TS guide with RSG logos & removed outdated information	08/13/22



Air Conditioning System Kit Part Number: 350-00-011-HP AEC Basic Version



Step 1

Kit Inventory

P/N 350-00-011-HP AEC Basic Version

(Rev. AC) June 30, 2023



RECORD OF REVISIONS

Revision	Description	Date	Revised By
IR	Initial Release of Configuration	04 Nov. 2009	IFS
А	Removed Comp/Belt/Intake	02 Feb. 2010	IFS
В	Corrected Screw Stp. 5.10/5.17	03 May 2010	IFS
С	Added Optional EMI-RFI filter & ring terminals	28 Jan. 2011	IFS
D	Screw length increased at Step 6.22	20 May 2011	IFS
E	Added Compressor Bracket Kit Upgrades	14 Feb. 2013	RSG
F	Added Brushless motor option; corrected part numbers; added optional EMI filter	19 Mar. 2015	RSG
G	Formatted to RSG Products. Updated and added P/N's.	1 Jun. 2015	RSG
Н	Removed items and corrected P/N's	18 Aug. 2015	RSG
К	Added Alt. P/N.	24 Mar. 2016	RSG
L	Added 50A limiter	14 Jul. 2016	RSG
М	Remove Alt. P/N	21 Oct. 2016	RSG
Ν	Remove items in Steps 6.12 and 6.14	03 Mar. 2017	RSG
Р	Add hardware for alt. elect. box location.	25 Sept. 2018	RSG
Q	Add hose clamp and corrected hardware qty for comp. bkt. kit	15 Jan. 2019	RSG
R	Added rivets in Step 5.4	14 Jun. 2019	RSG
S	Added alt. p/n of drain hose and grommet	21 Nov. 2019	RSG
Т	Updated air outlet assembly options, clamps and EMI filters	20 Jan. 2020	RSG
U	Added 30 additional feet of foil tape in Step 5.16	17 Mar. 2020	RSG
V	Changed grommet & band clamp in section 7	11 Nov. 2021	RSG
W	Added doubler & additional hardware to Step 7.5	28 Mar. 2022	RSG
Х	Updated hardware requirements in Step 7.5	5 May 2022	RSG
Y	Changed grommet part number in Step 7.7	8 Aug. 2022	RSG
AA	Updated drawing & document lists	17 Mar. 2023	RSG
AB	Updated Step 9.4 & removed reference to Illustrated Parts Catalog	31 Mar. 2023	RSG
AC	Updated grommet part number in Step 7.7	30 June 2023	RSG

LIST OF EFFECTIVE PAGES

Rev	Pgs	Description	Date
А	8	Removed P/N's 590008 and 060018-1	02/02/2010



В	5	MS35206-244 is now MS35206-230	03/05/2010
В	4	AN525-10R6 is now AN525-10R7	03/05/2010
С	13	Changed Kit List for: Compressor Bracket Installation Kit (Was: IFS- 350/130-507, Is: 350-11-031-02)	
С	9	Added Hose Disconnect Bracket to Step 10.3 (P/N:04-130-21-107-01)	01/29/2013
С	8	Changed P/N for Step 8.9 (Was: IFS-350/130-507, Is: 350-11-031-02)	01/29/2013
D	14	Added P/N's, removed 04-130-21-107-01 and adding it to step 10.3	03/03/2014
E	4	Corrected P/N in 5.10 ABA4-4 is now AD44ABS in step 5.10	7/24/2014
E	6	Updated quantities of rivets MS20470AD-4-3, -4, and -5 to step 6.11	7/24/2014
E	9	Changed SD-507 Compressor Assy. To SD-507 Compressor Assy. (Grooved) in step 8.10	7/24/2014
E	9	Added option for smooth belt compressor P/N 590008	7/24/2014
E	9	Added option for smooth belt P/N 060018	7/24/2014
E	10	Changed part number from 22CR4HM to ZZCR4HM in step 9.4	7/24/2014
F	4	Changed part number from 1/16" i.d. to GM1 in step 5.4	1/16/2015
F	4	Changed part number from #8 x $\frac{1}{2}$ to 050020-4 and #8 to 050020-5 in step 5.9	1/16/2015
F	9	Added alternate part numbers for fwd evap high and low hat assemblies	
F	10	Changed part numbers of electrical connectors from description to actual RSG part numbers steps 9.4 and 9.5	1/16/2015
G	9	Added new style vents and vent mounts in steps 7.9 and 7.10	6/1/2015
G	10	Added harness assembly for micro switches in step 9.4	6/1/2015
G	10	Added new instrument panel & new aft switch assembly in steps 9.6 and 9.7	6/1/2015
Н	6	Corrected P/N in step 5.17 was: 490017-1 is: 490017-1-02 Removed Resistor and components in step 5.17	8/18/2015
Н	9	Corrected P/N was: 050084-7** is: IFSS 050084-7**. Added config01 and -02 to P/N: IFSS 050084-7**	8/18/2015
Н	9	Removed P/N 050084-6** in step 6.26	8/18/2015
Н	10	Replaced P/N 350-11-031-02 with note "SEE PAGE 15" in step 8.9	8/18/2015
Н	12	Removed P/N 070003 in step 10.9	8/18/2015
Н	15	Removed Kit P/N.	8/18/2015
K	10	Added alternate P/N CR4HM in Step 9.4	3/24/2016
L	11	Added 50A limiter in Step 9.5	7/14/2016
М	15	Remove alt. P/N 261155 from Compressor Bracket Inst. Kit.	10/21/2016
N	6	Remove 260002 from Step 6.12 and (2) AN3-5A and AN960-10 from Step 6.14	03/03/2017
Р	8	Add hardware for alt. elect. box location.	09/25/2018
Q	12	Add hose clamp p/n MS21919WDG13	01/15/2019
Q	16	Update quantity of p/n MS21042-L4 from 2 to 3	01/15/2019
R	6	Added 3 new rivets in step 5.4, quantity 30 each	06/14/2019



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S	10	Added alt. drain hose p/n in Step 6.26 and Step 7.7; added alt. grommet p/n in Step 7.7	11/21/2019
т	10	Update air outlet assembly options in Step 7.9; changed vent mount note in Step 7.10	01/20/2020
т	11	Made EMI-RFI filter p/n LS03-01012 in Step 9.4 optional and moved to after Step 10.9	01/20/2020
Т	12	Added alt. adel clamp p/n MS21919WDG14 after Step 10.3	01/20/2020
Т	13	Removed EMI filter and mounting hardware after Step 10.9 as this is included in filter kit p/n 050143-2	
U	7	Added 30 more feet of p/n 070076 in Step 5.16 for total of 60 feet	03/17/2020
V	10	Changed grommet p/n in Step 7.7 & band clamp in Step 7.8	11/11/2021
W	10	Added p/n 260373, grommet & additional hardware to Step 7.5	03/28/2022
Х	10	Added 3 rivets sizes and reduced grommet from 3' down to 1.5'	5/05/2022
Y	10	Changed grommet from MS35489-123 to MS35489-75	08/08/2022
AB	11	Updated ring terminals & splice part quantities in Step 9.4	03/31/2023
AA	14	Removed sheet count from drawing list; Aft Evaporator, Condenser, & Baggage Compartment Mod	03/17/2023
AA	15	Updated document descriptions in document list; moved RFMS & Foreign Approvals to website; corrected description for section 14 & 15	03/17/2023
AB	13	Updated section 13 to remove reference to Illustrated Parts Catalog	03/31/2023
AC	10	Changed grommet p/n from MS35489-75 to MS35489-72	06/30/2023



Kit Configuration Inventory List: 350-00-011-HP AEC Basic Version

Sales Order Number:
Shipping Date:
Customer:
Customer P.O. Number:
Notes:
Kit Specifics
Kit S/N:
Condenser S/N:
Condenser Blower S/N:
Aft Evaporator Blower S/N:
Compressor S/N:



STEP	PART NAME	PART NUMBER	QTY	CHK'D BY	VERF'D BY
5.1	Aft Evaporator Fan Doubler	260328-1	1		
5.4	Rivets	MS20470AD4-4	100		
5.4	Rivets	MS20470AD4-5	25		
5.4	Rivets	MS20470AD4-5.5	30		
5.4	Rivets	MS20470AD4-6	30		
5.4	Rivets	MS20426AD4-4	15		
5.4	Rivets	MS20426AD4-5	30		
5.4	Rivets	CR3243-4-03	2		
5.4	Caterpillar Grommet (1/16" I.D.)	GM1	1.5 ' Ft.		
5.5	Aft Evaporator Assembly	560010-"O″-5	1		
5.5	Bolt	AN3-5A	4		
5.5	Washer	AN960-10	4		
5.0					
5.6	Doubler, Return Air	260322-1	1		
5.8	Angle	260322-2	1		
5.8	Rivets	MS20470AD4-3	25		
5.8	Rivets	CR3243-4-03	25		
5.8	Rivets	CR3243-4-04	25		
5.8	Rivets	MS20470AD4-4	10		
5.8	Rivets	MS20426AD4-4	10		
5.9	Return Air Screen	080022-1	1		
5.9	Chrome Screw	050020-4	4		
5.9	Chrome Washer	050020-5	4		
E 10	Angle Deturn Air Connector According	E10261			
5.10	Angle Return Air Connector Assembly	510261	1		
5.10	Rivets	AD44ABS	15		
5.10	Screw	AN525-10R7	2		
5.10	Return Air Cover Connector	250166	1		
5.11	Return Air Duct	250149	1		



STEP	PART NAME	PART NUMBER	QTY	CHK'D BY	VERF'D BY
5.15	Rivnut	A10K80	A10K80 3		
5.15	Screws	AN525-10R6	3		
5.15	Screws	AN525-10R10 4			
5.15	Clip Nut (Alt P/N: 13100000-5)	RM52LHA4972-10-02			
5.16	Aluminum Foil Tape	070076	60′ Ft.		
5.16	Cork Insulation Tape	070078-0	6′ Ft.		
5.17	Aft Evaporator Fan Assy. (Brushless)	490017-1-02	1		
5.17	Bolt	AN3-5A	5		
5.17	Washer	AN960-10	5		
5.18	Aft Transition Elbow Assembly	520036-3	1		
5.20	Bolt	AN3-6A	6		
5.20	Nut	MS21044N3	6		
5.20	Washer	AN960-10	12		
5.20	Transition Elbow Strap	261299	1		
5.21	6" Band clamp	060035	2		
5.21	Ø5.0" Duct 25" Long	060004	25″ in		
5.21	Insulation Foam Tape	070078	20′ Ft.		
5.22	Air Duct Closure Assembly	510092	1		
5.23	Hose Doubler, Baggage Comp.	260369	1		
5.23	Rivets	MS20470AD4-4 10			
6.1	Condenser Fan Mount	260148-3	1		
6.1	Fan Channel Base Angle	260020			
6.3	Filler	260862	1		



	Kit Configuration Inventory List								
STEP	PART NAME	PART NUMBER	QTY	CHK'D BY	VERF'D BY				
6.4	Battery Compartment Shelf	260333	1						
6.4	Battery Comp. Shelf Angle Fwd./Aft	260335	2						
			_						
6.6	Electrical Box Assembly	540028-C-2-A	1						
6.6	Bolt	AN3-4A	3						
6.6	Washer	AN960-10	3						
	Hardware for alt. Elect. Box location.								
	Bolt	AN3-7A	3						
	Spacer	NAS43DD3-32FC	3						
	Washer	AN960-10	3						
6.7	Rivets	MS20470AD4-3	30						
6.7	Rivets	MS20470AD4-4	10						
6.7	Bolt	AN3-3A	5						
6.7	Bolt	AN3-4A	3						
6.7	Bolt	AN3-5A	3						
6.7	Washer	AN960-10	20						
6.7	Nut	MS21044N3	20						
6.7	Screw	AN507-1032R10	18						
6.7	Rivet	CR3243-4-03	6						
6.7	Battery Comp. Shelf Angle Fwd. Assy.	510265	1						
6.8	Aft Condenser Channel Assembly	510007	1						
6.8	Fwd. Condenser Channel Assembly	510008	1						
6.10	Rivet	MS20470AD4-4	30						
6.10	Rivet	MS20470AD4-5	30						
6.11	Nutplate	MS21059-L3	L3 1						
6.11	Rivet	CCR264SS3-03 2							
6.11	Rivet	MS20470AD4-4	MS20470AD4-4 30						
6.11	Rivet	MS20470AD4-5	30						
6 1 2	Polt								
6.12	Bolt	AN3-4A	2						
6.12	Washer	AN960-10	2						



Kit Configuration Inventory List

STEP	PART NAME PART NUMBER		QTY	CHK'D BY	VERF'D BY
6.13	Condenser Mount Angle	260002	1		
6.13	Bolt	AN3-4A	2		
6.13	Washer	AN960-10	2		
6.14	Condenser Assembly	550007-1	1		
6.14	Bolts	AN3-5A	3		
6.14	Washer	AN960-10	3		
6.14	Rivet	CCR264SS3-03	8		
6.15	Condenser Air Intake Assembly	520071-1	1		
6.19	Screen Assembly, Condenser Exhaust	520052-2	1		
6.20	Fiberglass Cloth 7.5 oz. 18" x 38"	7.5 oz. 18" x 38"	2		
6.22	Screw	AN525-10R8	5		
6.22	Washer	AN970-3	5		
6.22	Tinnerman Countersunk Washer	A3235-020-24A	16		
6.22	Screw (Alt: NAS517-3-13)	MS24693-S278	16		
6.22	Washer	AN960-10	16		
6.22	Nut (Alt: MS21083N3)	MS20364-1032C	16		
6.22	Delron Insert	405SE1032-06-2	5		
	(Alt. Shurlock SL601-3-3A)	(Alt. NAS1832-3-3)			
6.24	Battery Door Angle	260339	1		
6.24	Battery Door Decal	120087	1		
6.25	Rivet	MS20470AD4-3 10			
6.26	Ø7.0" Vane Axial Blower***	IFSS 050084-7(**)	1		
	(IFSS 050084-7-2 Short IFSS 050084-7-3 Long)				
6.26	Condenser Exhaust Elbow Assy.	520032-1	1		

**Or Approved Alternate 7" Blower Assembly



STEP	PART NAME	QTY	CHK'D BY	VERF'D BY	
6.26	7-8" Band Clamp	060038	1		
6.26	3/8" I.D. Drain Hose (Alt: 090018-1 1/2" Drain Hose)	090018	5′ Ft.		
7.3	Forward Evaporator Assembly	560025-0	1		
	(Config01 Low Hat Config02 High Hat)				
7.4	Nut Plate	MS21059-L3	1		
7.4	Rivet	CCR264SS3-03	3		
7.5	Doubler	260373-1	1		
7.5	Rivets	CR3243-4-03	18		
7.5	Caterpillar Grommet	GM1	1.5′ Ft.		
7.5	Doubler	260373	1		
7.5	Rivets	CR3212-4-02	4		
7.5	Rivets	CR3213-4-02	2		
7.5	Rivets	CR3213-4-03	2		
7.7	3/8" I.D. Drain Hose (Alt: 090018-1 ½" Drain Hose)	090018	10′ Ft.		
7.7	Grommet	MS35489-72	1		
7.8	Bolt	AN3-4A	4		
7.8	Washer	AN960-10	4		
7.8	Band Clamp 1"	61434114	1		
7.8	Nut	MS21044N3	3		
7.9	Air Outlet Assembly	510259-3	2		
7.9	Air Outlet Assy. L.H.*** (optional upgrade @ additional cost)	520156HP	1		
	Air Outlet Assy. R.H.*** (optional upgrade @ additional cost)	520157HP	1		
7.10	Rivet	CR3243-4-04	6		
7.10	Vent Mount (for optional air outlet upgrade)	261335HP-01	2		
	Screw	AN525-832R8	6		
	Nutplate	MS21042L08	4		



STEP	PART NAME	PART NUMBER	QTY	CHK'D BY	VERF'D BY
7.11	3" Band Clamp	060036	5		
7.11	Duct Ø2.5" X 120" Long	060025	1		
8.5	4 Groove Belt***	060005	2		
8.5	Smooth Belt*** (Alt. P/N: 060018)	060018-1	2		
8.9	Compressor Bracket Kit	SEE PAGE 16	1		
8.10	SD-507 Compressor Assy.(Grooved)***	590008-1	1		
8.10	SD-507 Compressor Assy. (Smooth)***	590008	1		
9.4	Tie Wrap (10" Length Min.)	63128	100		
9.4	Tie Block (Alt. P/N: CR4HM)	ZZCR4HM	25		
9.4	Butt Splice 16-14	050020-1	4		
9.4	Ring Terminal 16-14 X ¼"	MS25036-154	4		
9.4	Knife Splice 22-16	050020-6	2		
9.4	Ring Terminal 16-14 #10	050020-8	4		
9.4	Knife Splice 16-14	050020-2	8		
9.4	1/4" Heat Shrink 4" inches long	070077	4		
9.4	Electrical Harness Assembly***	540044-4	1		
	(Config01 for non-microswitch Config02 for microswitch)				
9.4	Ring Terminal	MS25036-157	2		
9.5	Harness Assembly	540045-1	1		
9.5	Ring Terminal	050020-9	1		
9.5	Limiter 50 AMP	ANL-50	1		
9.6	Instrument Panel Switch*** (Config01 for non-microswitch Config02 for microswitch)	540044-8 1			
9.6	Dzus Rail for -02 Switch Assembly	261348HP-01	2		
9.6	Rivets	MS20426AD4-7	6		



STEP	PART NAME PART NUMBER		QTY	CHK'D BY	VERF'D BY
9.7	Aft Switch Assembly***	540089	1		
	(Config01 for non-microswitch Config02 for microswitch)				
10.3	Hose Assy Fwd Evap to Aft. Evap To Comp	570087-"O"-A	1		
10.3	#10 "O" Ring	090094	3		
10.3	Adel Clamp	MS21919WDG12	6		
10.3	Nut	MS21044N3	6		
10.3	Screw	AN525-10R10	6		
10.3	Washer	AN960-10	12		
10.3	Hose Disconnect Bracket	04-130-21-107-01	2		
	Adel Clamp	MS21919WDG13	2		
	Adel Clamp	MS21919WDG14	2		
10.4	Hose Assy. #6 Fwd. Evap. To Drier	570072-"O″-A	1		
10.4	#6	090092	2		
10.4	Adel Clamp	MS21919WDG10	6		
10.4	Nut	MS21044N3	6		
10.4	Screw	AN525-10R10	6		
10.4	Washer	AN960-10	12		
10.6	Hose Assembly #8 Comp. Discharge	570024-O-A	1		
10.6	#8 "O" Ring	090093	3		
10.6	Adel Clamp	MS21919WDG11	4		
10.6	Nut	MS21044N3	4		
10.6	Screw	AN525-10R10	4		
10.6	Washer	AN960-10	8		



1	6									
STEP	PART NAME	PART NUMBER	QTY	CHK'D BY	VERF'D BY					
10.7	Receiver/Drier Bottle "O" Type	090016-5	1							
10.7	Band Clamp 3"	060036	1							
10.7	Rec/Drier Mount Bracket	260123-2	1							
10.7	Bolt	AN3-5A	2							
10.7	Nut	MS21044N3	2							
10.7	Washer	AN960-10	4							
10.8	Hose Assembly #6 Condenser to Drier	570020-"O"-A	1							
10.8	#6 "O" Ring	090092	3							
10.9	Low Pressure Switch	050107	1							
10.9	High Pressure Switch	090004	1							
	Spiral Wrap Ø3/4"	SW12BKV	12′ ft.							
	EMI-RFI Filter *** (optional - for brushless motors)	LS03-01012	1							
	Aft Evap EMI Filter Kit *** (optional - for brushless motors)	050143-2	1							

*** Indicates it has alternate or optional configuration.



DRAWING LIST

DRAWING NAME	DRAWING #	QTY	CHK'D BY	VERF'D BY
AIR CONDITIONING OVERVIEW	1-3-AS350	1		
ELECTRICAL ROUTING	2-11-AS350	1		
ELECTRICAL DIAGRAM	2-21-AS350	1		
ELECTRICAL DIAGRAM	2-29-AS350	1		
PLUMBING DIAGRAM	3-4-AS350	1		
PLUMBING DIAGRAM	3-14-AS350	1		
AFT EVAPORATOR INSTALL	4-3-AS350	1		
AFT EVAPORATOR INSTALL	4-13-AS350	1		
FORWARD EVAPORATOR INSTALL	4-21-AS350	1		
AIR DISTRIBUTION	5-10-AS350	1		
AIR DISTRIBUTION	5-21-AS350	1		
AIR DISTRIBUTION	5-26-AS350	1		
COMPRESSOR INSTALLATION	6-2-AS350	1		
COMPRESSOR INSTALLATION	6-12-AS350	1		
COMPRESSOR INSTALLATION	6-21-AS350	1		
COMPRESSOR INSTALLATION*	6-3-AS350*	1*		
COMPRESSOR INSTALLATION*	6-13-AS350*	1*		
COMPRESSOR INSTALLATION*	6-22-AS350*	1*		
CONDENSER INSTALL	7-2-AS350	1		
CONDENSER INSTALL	7-11-AS350	1		
BAGGAGE COMPARTMENT MOD SHEET	8-2-AS350	1		
BAGGAGE COMPARTMENT MOD SHEET	8-11-AS350	1		
	0-11-70000			

* Indicates drawings required for newer Gimbal Housing design



DOCUMENT LIST

DOCUMENT DESCRIPTION	LOCATION	QTY	CHK'D BY	VERF'D BY
KIT CONFIGURATION INVENTORY LIST (IFS 33.41)	SECTION 1	1		
MAT'L SAFETY DATA SHEETS	SECTION 1	1 EA.		
AIRCRAFT PRE-INSPECTION	SECTION 2	1		
AIRCRAFT PREPERATION	SECTION 3	1		
REMOVAL OF FACTORY INSTALLED COMPONENTS	SECTION 4	1		
INSTALLATION OF AFT EVAPORATOR	SECTION 5	1		
INSTALLATION OF CONDENSER	SECTION 6	1		
INSTALLATION OF FORWARD EVAPORATOR	SECTION 7	1		
INSTALLATION OF COMPRESSOR	SECTION 8	1		
INSTALLATION OF ELECTRICAL	SECTION 9	1		
INSTALLATION OF HOSES	SECTION 10	1		
STC# SH3509SW	SECTION 11	1		
WEIGHT AND BALANCE	SECTION 11	1		
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS	SECTION 12	1		
MASTER PARTS LIST	SECTION 13	1		
TOC/WARRANTY/RMA	SECTION 14	1		
TROUBLE SHOOTING GUIDE	SECTION 15	1		
AIR CONDITIONING SCHEMATIC	SECTION 15	1		



COMPRESSOR BRACKET INSTALLATION KIT

ITEM DESCRIPTION	Part Number	QTY	Comment	CHK'D BY	VERF'D BY
COMPRESSOR MOUNT BRACKET	04-130-21-101-01	1			
COMPRESSOR MOUNT TENSION BOLT	04-130-21-102-01	1			
JAM NUT DRILLED	04-130-21-104-01	2			
COMPRESSOR CLAMP	04-130-21-105-01	2			
BUSHING, SD 507	261007	2			
COMPRESSOR STAND OFF	300067-1	1			
SHIM	300363-2	2			
THREADED ROD END	2434K39	1			
PIN	300095	1			
STRAP HOUSING	530100-1	1			
WASHER	NAS1149D0416H	1	Or NAS Hardware equivalent		
WASHER	NAS1149D0632H	6	Or NAS Hardware equivalent		
WASHER	NAS1149D0532H	2	Or NAS Hardware equivalent		
WASHER	AN960-416	4	Alternate (AN960-416L)		
WASHER	AN960-516L	1	Alternate (AN960-516)		
WASHER	AN960-616L	2	Alternate (AN960-616)		
NUT	MS21042-L5	2	Alternate (MS20364- 524C)		
NUT	MS21042-L4	3	Alternate (AN365-424)		
NUT	MS21042L6	4	Or NAS Hardware equivalent		
BOLT	AN4-5A	1	Or NAS Hardware equivalent		
BOLT	AN4-14A	2	Or NAS Hardware equivalent		
BOLT	AN5-34A	1	Or NAS Hardware equivalent		
BOLT	AN6-13A	2	Or NAS Hardware equivalent		
BOLT HEX DRIVE	AN6-12	1	Or NAS Hardware equivalent		
BOLT	AN6-33A	1	Or NAS Hardware equivalent		

Getting Started

The air conditioning system installation instructions are laid out step-by-step starting with one (1) thru nine (9) for installation and ten (10) thru fifteen (15) for care and airworthiness, the instructions are designed to be easy - to - use.

The example below is designed to give you a basic overview of how the steps work.

Example: A. In the step below there is a number **5.1** The "**5**" stands for step 5 and the "**1**" stands for direction 1.

Installation of Aircraft Systems

Example: B. When the parts are called out in a step: **5.1**, locate the part and parts that go with this step (5.1). It is best to organize your parts by step numbers so they can be drawn from as needed.

<u>Step</u>	Procedure	Mech	Insp
	Position the aft evaporator doubler, P/N 261370, on the upper transmission deck per the dimensions shown on drawing number 4-1EC130. Mark and remove all existing rivets, bolts, and nut plates to allow the doubler to sit flat on deck. (Ref photo 501)		

Should you have any questions, problems or need technical support, do not hesitate to call, fax, E-mail, or write us:

 Phone:
 1-888-545-8371
 E-Mail: info@rotorcraftservices.com

 Fax:
 1-800-624-6603

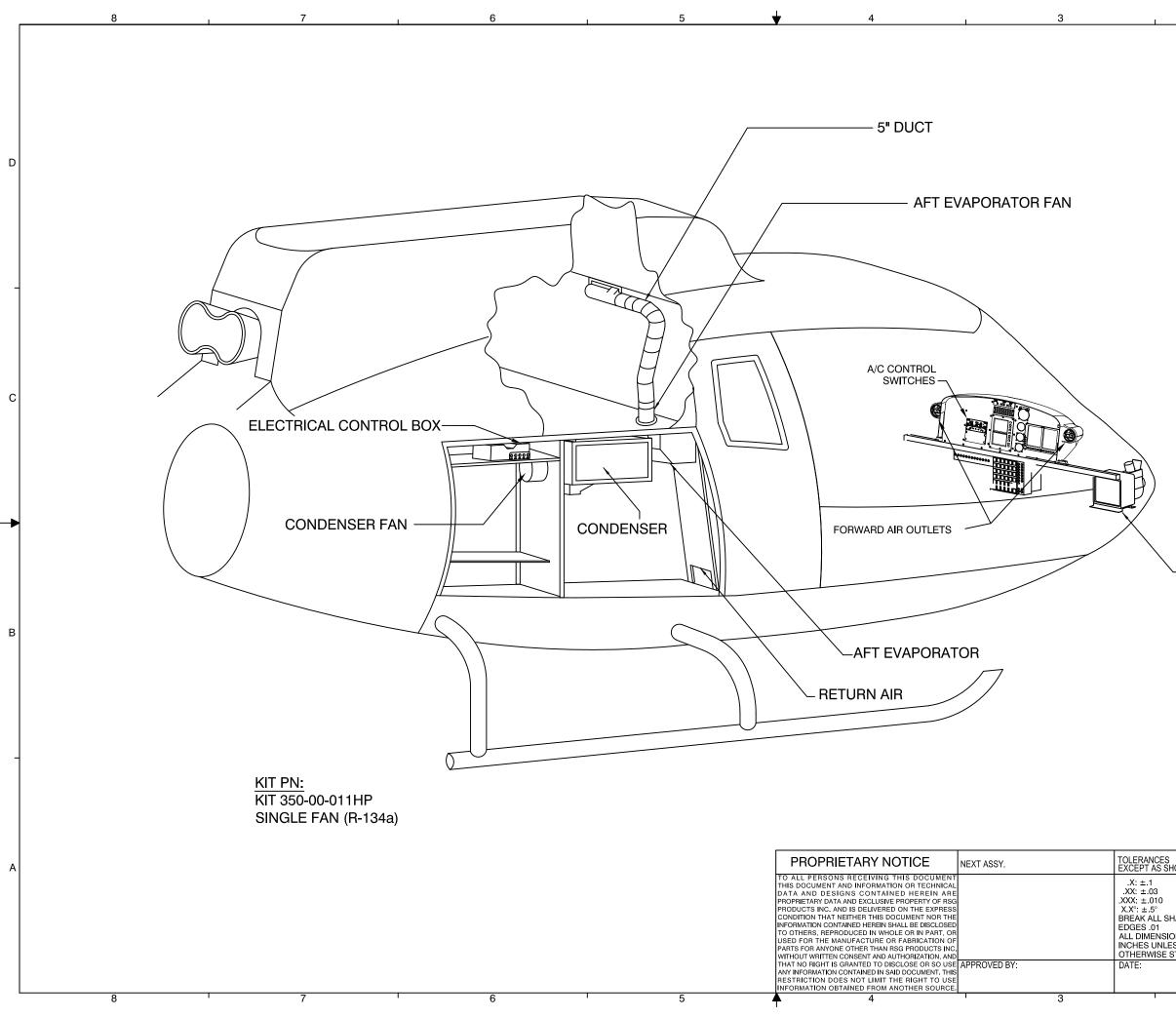
RSG Products Inc. REQUIRED TOOLS – AS350 Air-Conditioning

Required Tools

1.	Drill ¼ or 3/8 Capacity / Straight and 90 degrees
2.	Rivet Gun - #4 & #5 Rivet Set
3.	Blind Rivet Puller
4.	Assorted Drill Bits - 40, 30, 10, ¼, & 21
5.	Standard Wrenches - ¼, 1-¼
6.	Metric Wrenches - 5mm to 19mm
7.	Standard Sockets - 1/4 to 3/4 cap Ratchet & Extensions
8.	Metric Sockets - 5mm to 19mm
9.	Torque Wrench (For Coupling) 200 <u>inch</u> lbs
10.	Rotary File (Die Grinder)
11.	Drum Sander
12.	Hole Finder - #30 & #10
13.	Cleco - #30, #21 & #40
14.	C-Clamps – Vise Grip Clamps
15.	Wire Cutters
16.	Phillips Screw Driver
17.	Torque-Bite (For Belly Pan) Pan American Tool 170-10 & 170-8 Power Torque
18.	Common Screw Drivers
19.	Cape Chisel
20.	Center Punch
21.	6oz Ballpeen Hammer for Removing Rivets
22.	Assorted Bucking Bars
23.	Safety Wire .032
24.	Wire Twisters
25.	Steel Ruler
26.	Spring scale

RSG Products Inc. REQUIRED TOOLS – AS350 Air-Conditioning

27.	Adjust Wrench Cap 1-1/2
28.	Vacuum Pump
29.	Gauge Manifold
30.	Nitrogen
31.	R-134A
32.	Blocks for Supporting Forward Engine
33.	Vacuum Cleaner
34.	Rivnut Puller



	2	1			_	
REVISION RECORD						
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY		
A	08/16/00	REVISED DRAWING NUMBER, WAS 1-AS 350				
В	04/22/02	COMPUTERIZED, ADDED PAG TO TITLE BLOCK, CHANGED AIR OUTLET CONFIGURATION.				
С	06/15/03	REVISED TITLE BLOCK.			D	
D	09/09/09	REVISED TITLE BLOCK. CORRECTED CONDENSER/BLOWER VIEW. ADDED AEC BASIC VERSION NOTES.				
E	09/01/14	CHANGED TITLE BLOCK AND REVISION BLOCK.		AJC		
F	01/19/22	UPDATED FORWARD AIR OUTLETS, FORWARD EVAPORATOR, INSTRUMENT PANEL VIEWS & FOD DESCRIPTION PER ECO 0775.		SGB		

С

в

FORWARD EVAPORATOR

UTILIZE WITH: AEC BASIC VERSION OR ECL TOUR-2 VERSION

NCES AS SHOWN 1 03 010	P			_	UCTS INC. SERVICES GROUP COMPANY	A
.5° ALL SHARP .01 IENSIONS IN	TITLE: AIR CONE	DITIONING OV	ERVIE	W		
UNLESS WISE STATED	DRAWN BY: KML	DATE: 11/01/96	REV.: F	SCALE: N/A	SHEET: 1 OF 1	
	APPLICATION: AS350	•			DWG.NO.: 1-3-AS350	1
1	2		1		1	-

Trade Name: MSDS NO. **Revision Date:**

Date Printed

Johnsen's Ester 100 6711 03/26/2007 12/30/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: **Chemical Family:** Synonyms: Emergency Telephone (24 hr.):

Johnsen's Ester 100 **Refrigeration Oil** None CHEMTREC 1-800-424-9300

Supplier:

Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. **COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Ester Propietary Inhibitor	0-20	Not Listed	Not Listed	Not Listed
Package				
Mixture				
Ester Propietary Base Stock	20-80	Not Listed	Not Listed	Not Listed
Mixture				

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Ester Propietary Inhibitor	0-20	Not Listed	Not Listed	Not Listed
Package				
Mixture				
Ester Propietary Base Stock	20-80	Not Listed	Not Listed	Not Listed
Mixture				

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Ester Propietary Inhibitor	Not Listed	Not Listed	Not Listed
Package			
Mixture			
Ester Propietary Base Stock	Not Listed	Not Listed	Not Listed
Mixture			

Other: Contains no ingredients in concentrations greater than 0.1% that are now known to be hazardous as defined by OSHA.

3. **HAZARDS IDENTIFICATION**

Emergency Overview:	Ingestion of this product may cause gastrointestinal distress with symptoms of nausea, vomiting, diarrhea and abdominal pain. May cause irritation to skin and eyes.		
HMIS Classification: NFPA Rating:	Health: 1 Flammability: 1 Physical Hazard: 0 Health: 1 Flammability: 1 Reactivity: 0		
	4. FIRST AID MEASURES		
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention if irritation persists.		
Ingestion:	DO NOT INDUCE VOMITING. Give nothing by mouth. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.		
Inhalation:	If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.		
Skin Contact:	Remove contaminated clothing and shoes, and launder before reuse. Get medical attention if irritation persists. Wash with soap and water. Use skin cream for defatted areas.		
	Page 1 of 4		

Trade Name: MSDS NO.

Revision Date: Date Printed Johnsen's Ester 100 6711 03/26/2007 12/30/2008

5. FIRE FIGHTING MEASURES

Flash Point °F(°C): Flash Point Method: Flammable Limits in Air - Lower (%): Flammable Limits in Air - Upper (%): Autoignition Temperature °F(°C): Extinguishing Media: <u>Protection Of Fire-Fighters:</u>	>482 (<250) COC Not Determined Not Determined Not Determined Carbon dioxide. Dry chemical. Foam.
Special Fire-Fighting Procedures:	Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity.
Hazardous Combustion Products: Aerosol Comments:	Oxides of carbon, nitrogen and phosphorus. Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear appropriate protective clothing and equipment to prevent skin and eye contact.
Spill Procedures:	Wear protective equipment specified. Contain any liquid from leaking containers.
Action to be taken if material is released or spilled:	Absorb spills on inert material such as perlite, vermiculite, sand or dirt. Place in double polyethylene bags. Isolate from other waste materials. Wash walking surfaces with detergent and water to reduce slipping
Environmental Precautions:	hazard. Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

7. HANDLING AND STORAGE

Handling and Storage:

Avoid contact with eyes. Keep containers tightly closed when not in use. Use only in a well ventilated area. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Contaminated disposable clothing should be discarded in accordance with local, state and federal rules. Wash thoroughly after handling. Do Not Swallow. Store at room temperature. Avoid prolonged/repeated breathing of vapors, mists or fumes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Eyewash stations. Showers. Use local exhaust.
Eyes:	Chemical goggles; also wear a face shield if splashing hazard exists.
Skin Protection:	Neoprene coated apron or clothing.
Respiratory Protection:	Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor: pH Value: Vapor Pressure: Vapor Density (Air=1): Boiling Point (°F): Melting/Freezing Point: Solubility in Water: Bulk Density at 20°C: Molecular Weight: Specific Gravity (H20=1): Viscosity: Evaporation Rate: VOC Content(%): Decomposition Temperature:

Clear to light yellow liquid MILD ETHER Not Determined Not Determined >300 C. Not Determined INSOLUBLE Not Determined Mixture 1.04 @ 60F 100 cSt @ 40C Not Determined Not determined. Not Known

	40
Date Printed	12/30/2
Revision Date:	03/26/2
MSDS NO.	6711
Trade Name:	Johns

Johnsen's Ester 100 6711 03/26/2007 12/30/2008

10. STABILITY AND REACTIVITY

Chemical Stability: Conditions to Avoid: Materials to Avoid: Hazardous Decomposition Products: Hazardous Polymerization:

Stable under normal conditions of handling, use and transportation. High temperatures. Strong oxidizing agents. s: Oxides of nitrogen. Oxides of carbon. Oxides of sulfur. WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Component	Route	Species	Dose
Ester Propietary Inhibitor	Inhalation	Rats	Not known.
Package			
Mixture Ester Propietary Base Stock	Inhalation	Rats	Not known.
Mixture			

Carcinogenicity:

Component	IARC	NTP	OSHA
Ester Propietary Inhibitor Package	Not Listed	Not Listed	Not Listed
Mixture			
Ester Propietary Base Stock Mixture	Not Listed	Not Listed	Not Listed

Comments: No component known to be present in this product at >.1% is presently listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Domostro	
Remarks:	

Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification:	This product as purchased does not fall under current U.S. EPA RCRA difinitions of hazardous waste. Under RCRA it is the generator's responsibility to determine the status of the waste at the time of its disposal. This product does not contain any CERCLA regulated materials.
Waste Management:	Not determined.
Disposal Method:	Disposal of this material to the land may be banned by federal law (40 CFR 268).

14. TRANSPORTATION INFORMATION

Not Regulated

Not Applicable

Not Applicable Not Applicable

U.S. DOT: Proper Shipping Name: Hazard Class: UN/NA Number: DOT Packing Group:

IMDG:

Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
Hazard Subclass:	Not Applicable
UN No.:	Not Applicable
Packing Group:	Not Applicable
Marine Pollutant:	No

Trade Name: MSDS NO. Revision Date: Date Printed Johnsen's Ester 100 6711 03/26/2007 12/30/2008

15. REGULATORY INFORMATION

US Federal Regulations:

Component	SARA 313	SARA 302	TPQ	RQ	
Ester Propietary Inhibitor	Not Listed	Not Listed	Not Listed	Not Listed	
Package					
Mixture					
Ester Propietary Base Stock	Not Listed	Not Listed	Not Listed	Not Listed	
Mixture					

US OSHA HEALTH CLASSIFICATION: SARA 311/312 Hazard Catagories:

Hazardous per OSHA 29 CFR 1910.1200

Immediate Health: Yes, Delayed Health: No, Fire: No, Reactive: No, Pressure: No.

State Regulations:

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Ester Propietary Inhibitor	Not Listed	Not Listed	Not Listed	Not Listed
Package				
Mixture				
Ester Propietary Base Stock	Not Listed	Not Listed	Not Listed	Not Listed
Mixture				

U.S. TSCA: One or more components of this product is not listed on the TSCA Inventory. Canadian Inventory: One or more components of this product is not listed on the Canadian DSL or NDSL Inventory. Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

16. OTHER INFORMATION

General Notes: Disclaimer: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

Step 2

Aircraft Pre-Inspection

Page 1 of 4

Aircraft Pre-Inspection

STEP	PROCEDURE	MECH	INSP
2.1	Inspect the aircraft for other kits and Modifications that may effect the installation of The air conditioning kit.		
2.2	Inspect the airframe structure for any obvious Structural damage or corrosion.		
2.3	Repair discrepancies that are found prior to Installation of kit.		
2.4	Inspect aircraft paperwork for damage history that may effect the installation of this kit.		

General Safety Instructions

PROCEDURE

WARNING: Always handle the refrigerant fluids carefully.

WARNING: Do not mix other refrigerant fluids with the R134a. Do not use refrigerant canned for pressure-operated accessories (such as boat air horns). This refrigerant is not pure and will cause malfunctions in the system.

WARNING: When the system must be opened to do maintenance, before you do the work, you must drain the air conditioning system.

WARNING: When you open the system, you must collect the refrigerant in accordance with Federal and Local regulations.

WARNING: When the R134a is used in normal conditions, it is not flammable. Do not use it near a source of heat to prevent the risk of separation of the vapors.

WARNING: Avoid skin and eye contact with R-134a. The liquid R-134a, at normal atmospheric temperatures evaporates so quickly that it will freeze anything is comes in contact with.

WARNING: Wear safety goggles when servicing any part of the refrigerant system.

WARNING: Never heat a R-134a supply cylinder to produce additional pressure or attempt to empty the container completely.

WARNING: Insure adequate ventilation when servicing the refrigerant system.

WARNING: If the R-134a and lubrication oil are mixed with water they make hydrochloric acid. This will cause corrosion of the system components.

General Safety Instructions

PROCEDURE

WARNING: You must replace the filter drier each time you open the system.

WARNING: Comply with the regulations in force in the country where the aircraft is operated when working on the air conditioning system.

WARNING: Only use nitrogen or Alcohol to clean the system components.

WARNING: Always keep the R-134a supply cylinder in an upright position when admitting refrigerant into the system. If a cylinder is on its side or upside down, liquid will enter the R-134a system and cause damage to the compressor.

Step 3

Aircraft Preparation

Aircraft Preparation

STEP	PROCEDURE	MECH	INSP
3.0	Remove or disconnect the battery.		
3.1	Remove pilot and co-pilots doors.		
3.2	Remove right rear door as needed.		
3.3	Remove rear seats.		
3.4	Remove co-pilot anti-torque pedals.		
3.5	Drop the cabin headliner.		
3.6	Remove the two side screws from both sides of the glare shield.		
3.7	Remove back wall covering.		
3.8	Remove the right side baggage door.		
3.9	Remove the forward closeout panel in the right hand baggage compartment.		
3.10	Access panel Aft of landing light.		
3.11	Remove the right hand transmission cowling.		
3.12	Remove the left hand transmission cowling.		
3.13	Remove lower nose right window.		
3.14	Remove the front belly cowling.		
3.15	Remove the center belly cowling.		
3.15a	Remove the right middle belly cowling.		
3.15b	Lower the rear belly cowling.		

RSG Products Inc. AIRCRAFT PREPARATION – AS350 Air Conditioning

Aircraft Preparation

STEP	PROCEDURE	MECH	INSP
3.16	Remove the cargo net from the rear baggage compartment. (If installed)		
3.17	Remove the rear cargo compartment floor.		
	Remove the electrical compartment cover.		
3.18	NOTE: Determine location for air conditioning power hook up. Reinstall cover to prevent FOD.		
3.19	Remove the rear cargo compartment forward floor panel.		

NOTE:

After installation of system, a thorough inspection of all areas affected must be performed to determine security component installations and workman-ship standards prior to reassembly of aircraft and return to service by a qualified individual.

Step 4

Removal of Factory Installed Components

RSG Products Inc. REMOVAL OF FACTORY INSTALLED COMPONENTS – AS350 Air Conditioning

STEP	PROCEDURE	MECH	INSP
4.1	Unbolt oil cooling fan and shroud tiewrap to transmission.		
4.2	Disconnect oil cooler assembly from aft cabin wall and the wrap to transmission. Do not disconnect oil lines.		
4.3	Remove fresh air duct between oil cooler and discard.		
4.4	Remove aft right side seat mount bracket for installation of doubler. Ref 5-21-AS350		
4.5	(Intentionally left Blank)		
4.6	Remove warning horn forward of co-pilots feet. Hold for reinstallation.		
4.7	Remove NR digital indicator box forward of co- pilots feet. Hold for reinstallation.		
4.8	Remove glare shield.		
4.9	Remove T4 correction chart holder. Hold for reinstallation.		

Removal of Factory Installed Components

Step 5

Installation of Aft Evaporator

Installation of Aft Evaporator

STEP	PROCEDURE	MECH	INSP
5.1	Remove Right Hand Transmission Cowling Forward latch. (See photo 1). Hold for reinstallation. Position the aft evaporator doubler P/N 260328-1 on the upper transmission deck per drawing 4-3-AS350 sheet 1 of 2. Mark around doubler and remove all existing rivets, bolts, and nut plates to allow the doubler to sit flat on deck.		
5.2	Drill through deck using pilot holes in doubler. Back drill the doubler from existing holes in the deck.		
5.3	Mark and cut openings in the transmission deck using doubler P/N 260328-1 as a template.		
5.4	Install aft evaporator doubler P/N 260328-1 on right hand upper transmission deck in accordance with drawing 4-3-AS350 sheet 1 of 2 using rivets as shown. Re-install Right Hand Transmission Cowling Forward latch as shown in drawing 4-3-AS350 sheet 1 of 2.		
5.5	Next temporarily install Aft evaporator assembly P/N 560010-"O"-5 with 4 ea. AN3-5A bolts and 4 ea. AN960-10 washers per drawing 4-13-AS350.		
5.6	Position return air doubler P/N 260322-1 against aft cabin bulk head as shown in drawing 5-21-AS350 trace outline on bulkhead. Remove doubler and drill out rivets inside trace.		
5.7	Reposition doubler P/N 260322-1. Back drill all holes and Cleco in place. Using doubler as guide pen route out return air hole.		
5.8	Remove doubler, clean holes. Install doubler P/N 260322-1 and angle P/N 260322-2 rivet in place per drawing 5-21-AS350.		
	NOTE: Two different situations, requiring different doublers are utilized depending on the type and location of the aft seat harness reel (if installed). See drawing for specifics.		



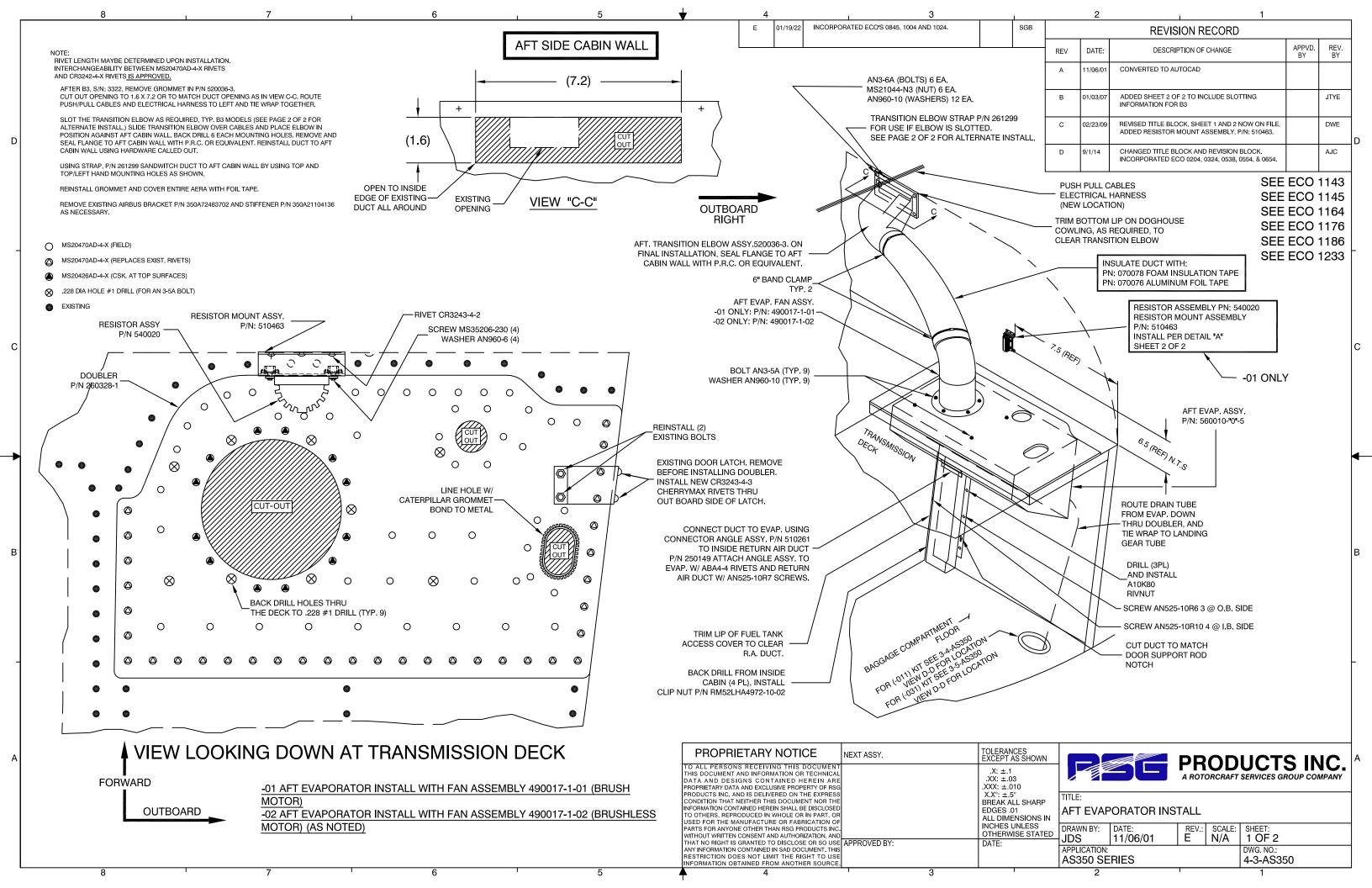
РНОТО 1

Installation of Aft Evaporator

STEP	PROCEDURE		INSP
5.9	Install return air screen P/N 080022-1 as per drawing 5-21-AS350.		
<u>NOTE:</u>	Before final install of evaporator. Install condenser channe and P/N 510008. (See condenser install: S		07
	Locate "Return Air Connector" P/N 250166. Trial fit to the aft side of the cabin wall, immediately in front of the aft evaporator. The open side of the connector must face aft. Slide the connector upward until it contacts the forward side of the evaporator. Mark with a pencil, the inside of the connector position on to the evaporator. Remove the connector and evaporator. Reference drawing 4-13-AS350.		
	Draw a line one (1) inch above the lower/forward face of the evaporator case. Trial fit "Return Air Connector" to the evaporator, ensuring that the flanges of the connector DO NOT go past the inboard/outboard sides of the evaporator.		
5.10	Confirm the pencil lines. Remove the connector. Cut out the area within the pencil lines, leaving the one (1) inch lower lip on the evaporator case as a drain seal.		
	NOTE: ENSURE DURING DRILLING THAT THE COIL INSIDE THE CASE IS NOT DAMAGED.		
	Seal and secure the Return Air Duct Connector PN: 250166 with rivets to the Evaporator PN: 560010-O-5 case per drawing 4-13-AS350. Next install the connector angle assembly P/N 510261, per drawing 4-3-AS350 Sheet 1 of 2 and 4-13-AS350. This holds the upper part of the return air duct.		
5.11	Position the aft evaporator return air duct P/N 250149 in the right side baggage compartment as shown on drawing 4-13-AS350. Use the return air opening to locate the return air duct. Trim the return air duct as required to fit.		
5.12	Remove the access panel from the outboard side of the aft evaporator P/N 560010-O-5.		
5.13	Temporarily install the aft evaporator, P/N 560010-O-5 using 4 each, AN3-5A, bolts and AN960-10, washers.		

Installation of Aft Evaporator

STEP	PROCEDURE	MECH	INSP
5.14	Locate and drill the holes for mounting the aft evaporator return air duct connector P/N 250166. Ref. 4-13-AS350		
5.15	Attach Return Air Duct P/N 250149 per drawings 4-3-AS350 sheet 1 of 2 and 4-13-AS350.		
5.16	SEAL THE EVAPORATOR TO THE RETURN AIR DUCT WITH ALUMINUM FOIL TAPE PN: 070076 as required by reaching through the outboard opening in the evaporator. Re-install the aft evaporator access panel.		
5.17	Install the Aft Evaporator Fan Assembly, P/N 490017-1-02, using five each AN3-5A bolts, and 5 ea. AN960-10 washers.		
5.18	Locate Transition Elbow P/N 520036-3. This will be mounted on upper Aft Cabin Wall on transmission side. See drawing 4-3-AS350 Sheets 1 and 2. Remove oil coolers from upper deck dog house. (Do Not Disconnect oil Lines) Position as to be able to modify Aft cabin wall. Do Not Re-install until step 5.22.		
5.19	Mark hole to be cut out in aft cabin wall per drawing 4-3-AS350 Sheet 1 of 2. Be careful not to cut the cabin air duct bonded to aft cabin wall. Drill a couple of # 40 holes to see if you clear duct.		
5.20	Cut out hole and mount elbow as shown in drawing No. 4- 3-AS350 Sheet 1 and 2 of 2.		
5.21	Install a 5-inch flex duct (25"in) long from the aft evaporator fan assembly to the aft air distribution elbow end with two each 6" band clamps P/N 060035. Insulate the duct with foam tape P/N 070078 and wrap with aluminum tape P/N 070076.		
5.22	Modify over head wemac's as shown in drawing 5-10-AS350 if S/N 1302 or lower. Remove existing spacer air duct between oil coolers. Install new Air Duct Closure Assembly PN: 510092 using existing hardware. Re-install oil cooler assembly.		
5.23	Install hose doubler P/N 260369 per drawing 3-4-AS350.		



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	<section-header>A A A A A A A A A A A A A A A A A A A</section-header>	6ALIGN RESISTOR MOUNT ASSEMT PN: 510463, MARK AND DRILL 6X .098 HOLES. ATTACH WITH 6X CR3243-3-2		3 _ 2	1
	DETAIL "A" OTO OL OTO OL	CREW		DETAIL "A" -01 ONLY	DPTIDNAL INSTALL FOR NOISE REDUCTION WHEN BRUSHLESS MDTORS ARE INSTALLED; P/Ns: IFSS 050143 DCB, -1 DCB, -2 DCB, AND -3 DCB. INSTALL THE FOLLOWING, MAINTAINING BURNISHING REQ: 04-350-21-108-01 (AFT EVAP EMI FILTER BRACKET) 1EA 13619-RF16883 (EMI FILTER) 1EA MS21075-3N (NUTPLATE) 2EA CCR264CS-3-02 (RIVET) 4EA MS27039-1-07 (SCREW) 2EA NAS1149D0316J (WASHER) 2EA
3				REMOVE PROT	FOR BRACKET ATTACHMENT USE EXISTING AN3-5A BOLTS, 3 PLACES TRIM BRACKET 04-350-21-108-01 AS NECESSARY TO FIT AGAINST MOTOR AND SEAL UNDER FOOT WITH RTV 732 OR EQUIVALENT AS REQUIRED FOR FOD PREVENTION ECTIVE FINISH M SURFACES WHERE
¥		6 5	4	EQUIPMENT MI LOCATED, TI ELECTRICAL MAXIMUM OF TITLE: AFT EVAPOR DRAWN BY: DAT	A A A A A A A A A A A A A A A A A A A

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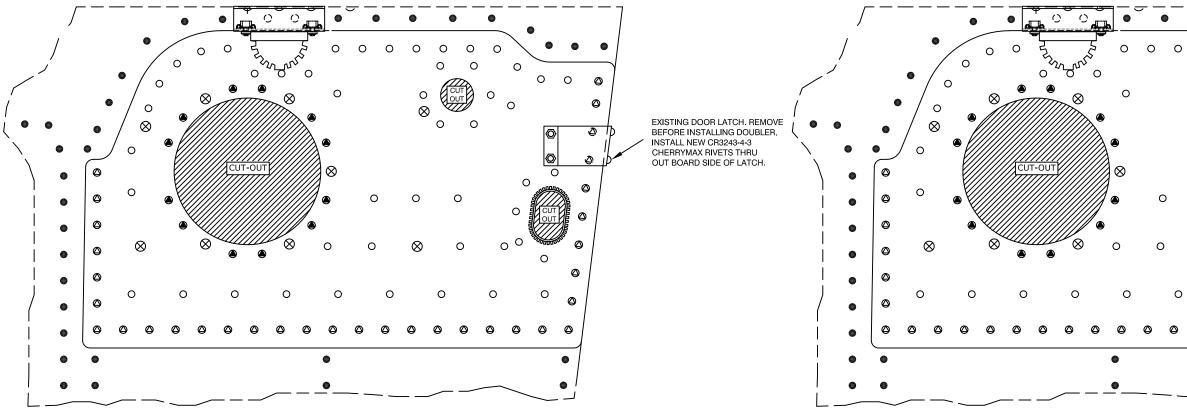
			ECO NO. 1143	SHT 1 OF 2
		CHANGE	DWG NO. 4-3-AS3	50 REV E
PF	RODUCTS INC.		DWG No.	REV
CHANGE CLASS:		ORDER	DWG No.	REV
	. PARTS NOT AFFECTED 🗌 NO		REF. STC NO. SH3509S	
EXISTING/IN-WOF	RK STOCK DISPOSITION:		EFFECTIVITY:	
	B. PARTS NOT AFFECTED CREAR	-WORK EXISTING STOCK ^{HER} <u>BREAK IN AT NEXT</u> BUILD	ALL UNITS THIS CUSTOMER	
			d alt. Rivets to be us Ing what changed	ED AND TRIM DOUBLER FOR CLARITY.
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		31299 SANDWITCH DUCT TO A JNTING HOLES AS SHOWN.	FT CABIN WALL BY USING TOP	AND
	REINSTALL GROMME	T AND COVER ENTIRE AERA V	WITH FOIL TAPE.	
IS:	INTERCHANGEABILITY	DETERMINED UPON INSTALLA BETWEEN MS20470AD-4-X RIV I3243-4-X RIVETS <u>IS APPROVE</u>	/ETS	
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		1299 SANDWITCH DUCT TO A JNTING HOLES AS SHOWN.	FT CABIN WALL BY USING TOP	AND
	REINSTALL GROMME	T AND COVER ENTIRE AERA V	VITH FOIL TAPE.	
	TRIM DOUBLER AS RE	EQUIRED FOR BEST FIT AND I	MAINTAIN MIN. EDGE DISTANCE	-
	MINOR CHANGE.		ENGINEE SIGNATURE	RING REVIEW BOARD STAMP DATE
UPDATED N THIS ECO C	CANCELS ECO 1117.		Anth	MRB04 8/2/2022
			My Th	QA22 8/2/2022
			Seefer	P016 5/3/2022
			INCORPOR	ATION STATUS



DESCRIPTION OF CHANGE: ADDED NOTE TO ALLOW A RELIEF CUT IN THE DOUBLER AS REQUIRED AROUND FASTNER. ADDED ALT. RIVET TO NOTE LOCATED IN ZN B4.

WAS:

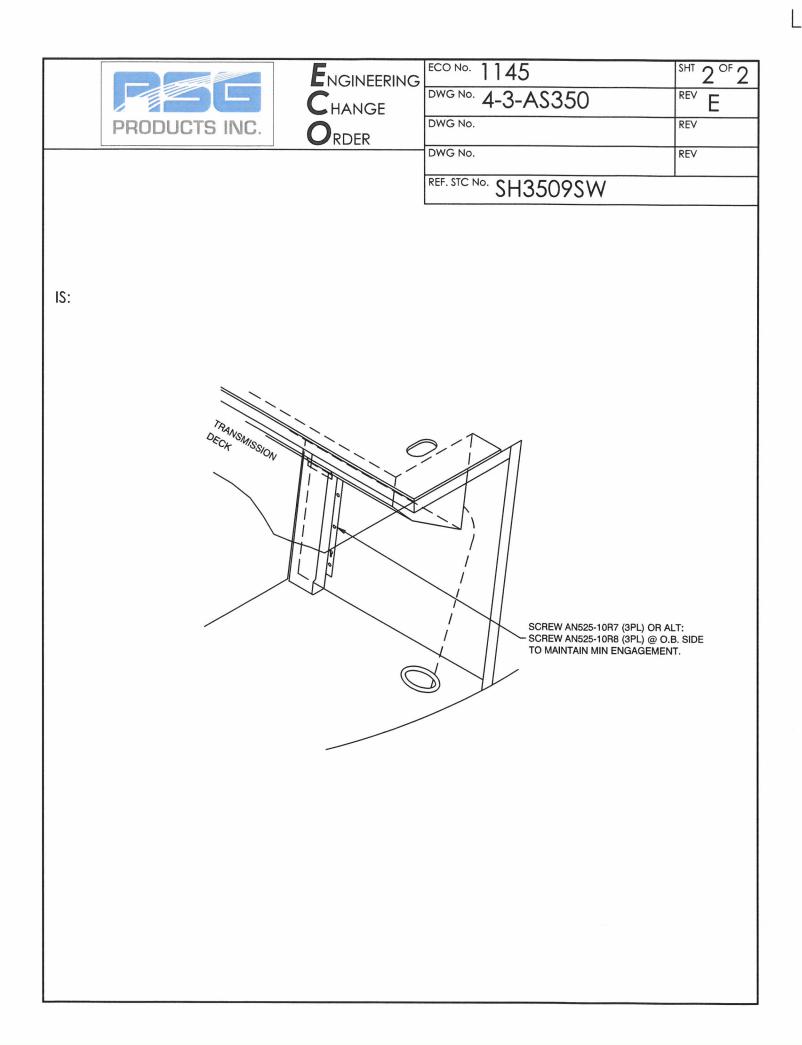
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E	DWG No. 4-3-AS350	^{rev} E
	DWG No.	REV
	DWG No.	REV
	REF. STC NO. SH3509SW	
	IF REQUIP DIAMETED DOUBLEF FASTNER	NR LATCH. REMOVE
0 ⊗ 0 0		RIVETS THRU OUT

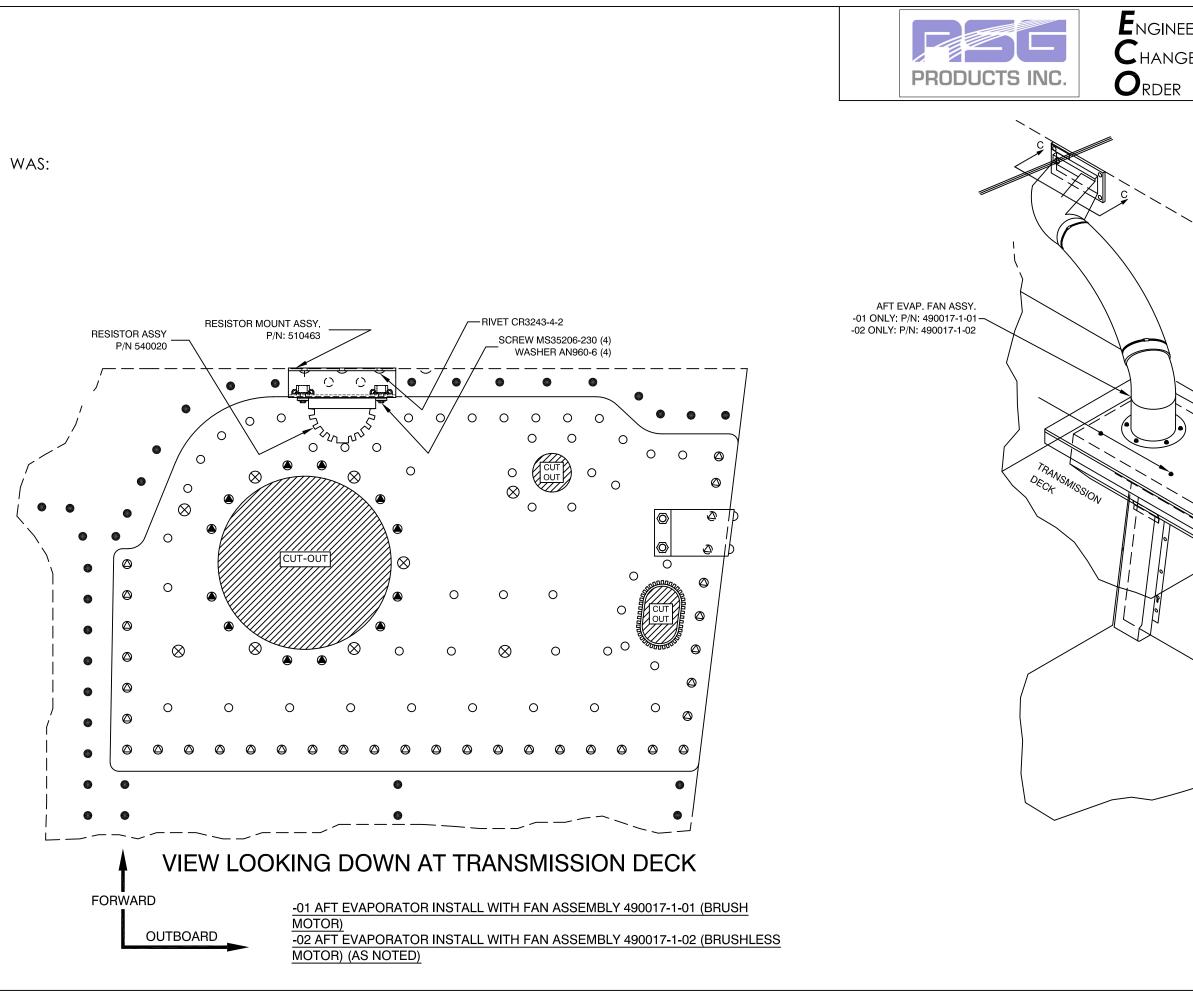
			ECO No. 1145	SHT 1 OF 2
		CHANGE	DWG NO. 4-3-AS35	50 REV E
	PRODUCTS INC.		DWG No.	REV
			DWG No.	REV
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	ANGEABLE PARTS	THER	REF. STC NO. SH3509S	W
And the second s	I-WORK STOCK DISPOSITION: CHG. PARTS NOT AFFECTED 🗌 RE		EFFECTIVITY:	
		THER BREAK IN AT NEXT BUILD	ALL UNITS MFG'D AFTER THIS	
	RIPTION OF CHANGE: C DVED ALL OTHER NOTES	S TO ONLY SHOW WH	AT CHANGED.	TED IN ZONE B2. 525-10R6 3 @ O.B. SIDE
REMAR	KS: MINOR CHANGE.		ENGINEER	RING REVIEW BOARD
1 00 01 DATE: 1000 1000 2000	GED SCREW LENGTHS IN	NOTE.	SIGNATURE	STAMP DATE
			CHANNA -	01412022
			RAMA	P016 2/4/2022
			INCORPOR/	ATION STATUS

RSG Products Form 33.21 Rev. A 9/19/2011

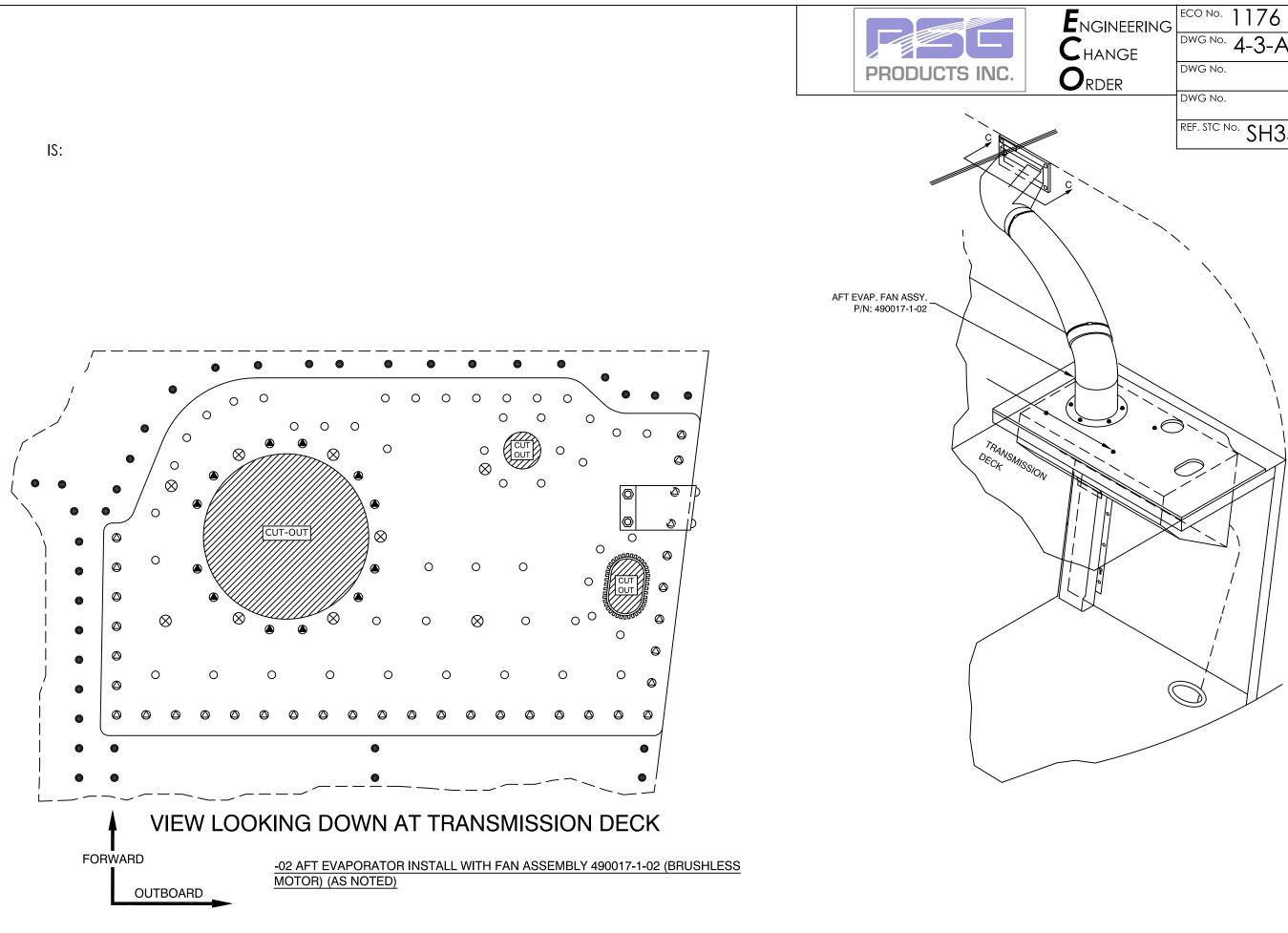


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			DWG No	
		CHANGE	4-3-AS33	50 E
	PRODUCTS INC.		DWG No.	REV
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		THER	SH35095	SW
	N-WORK STOCK DISPOSITION: D CHG. PARTS NOT AFFECTED 🔲 RE		EFFECTIVITY:	LIMITED UNITS SPECIFIED
		THER BREAK IN AT NEXT BUILD	ALL UNITS MFG'D AFTER THIS	
DESC C4.	RIPTION OF CHANGE: F	REMOVE 6" BAND CL/	AMP AND REPLACE W	'ITH P/N 060035 IN ZN
WAS	• RIC AFT. TRANSITION ELBOV FINAL INSTALLATION, S CABIN WALL WITH P.R -01	EAL FLANGE TO AFT		
IS:	AFT. TRANSITION ELBOW FINAL INSTALLATION, S CABIN WALL WITH P.F	EAL FLANGE TO AFT		
	RKS: MINOR CHANGE. ED PART CALLOUT FOR	6" BAND CLAMP.	SIGNATURE	RING REVIEW BOARD STAMP DATE MRB04 8/17/2022 QA22 8/17/2032 P016 8/17/2032 ATION STATUS OUTSTANDING

and the second				
			ECO No. 1176	SHT 1 OF 3
		CHANGE	DWG No. 4-3-AS350	REV E
	PRODUCTS INC.		DWG No.	REV
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		BREAK IN AT NEAL BUILD		
	CRIPTION OF CHANGE: P ORT. ONLY SHOWING V		PATA AS REQUESTED FOR	PRODUCTION LINE
REMAR	RKS: MINOR CHANGE.		ENGINEERING	G REVIEW BOARD
	VING OBSOLETE DATA.		SIGNATURE	STAMP DATE MRB04 9/26/2022
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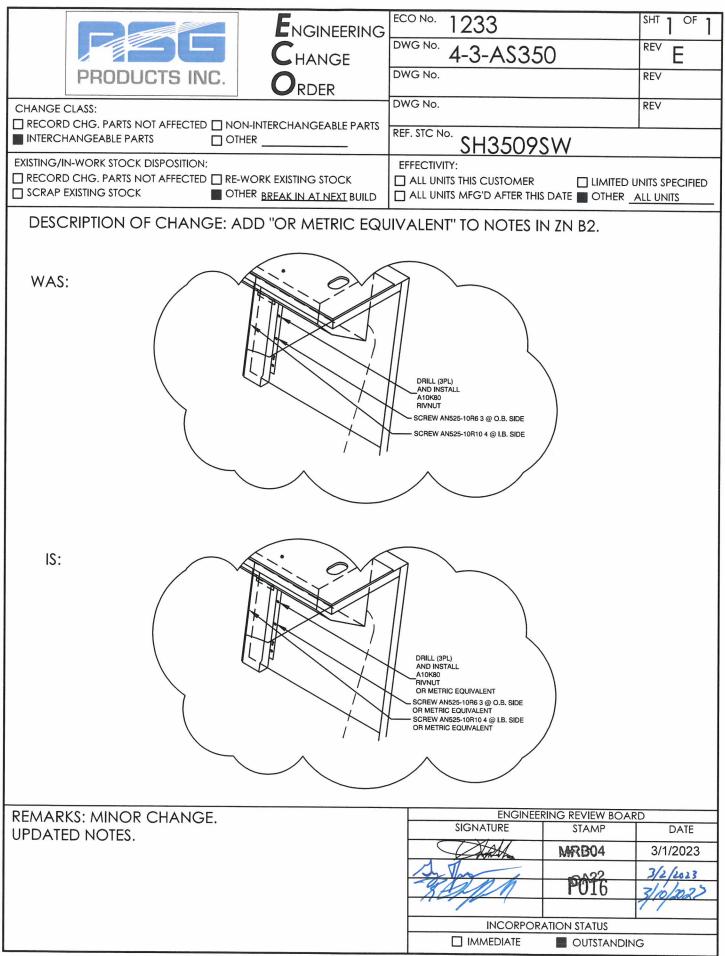


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		NEERING	ECO No.	1186		SHT] OF]
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RECORD CHG. PARTS NOT AFFECTED		ABLE PARTS	REF. STC N			
				<u>SH35093</u>	SW	
EXISTING/IN-WORK STOCK DISPOSITION				ity: IITS THIS CUSTOMER IITS MFG'D AFTER THIS		INITS SPECIFIED ALL UNITS
DESCRIPTION OF CHANG 050143-2. ON SHEET 2 O AND COMPONENTS OF	F 2 ADD TABLE 1					
WAS:		IS	:			
		N	OTES:			
 NOTES: TRIM MATING SURFACES OF ELBOW TO CABIN DUCT. POSITION ELBOW ABOVE CABLES AN DUCT. TRACE CABLE ROUTING ONTO LOWE CUT ELBOW TO ALLOW CABLES TO P. INTERFERENCE. OPEN AFT END OF CUT TO APPROX 1' INSTRUCTIONS. SEAL OPENINGS BOTH INSIDE AND O SEAL AREA BETWEEN CABLES AND G PN: 070078-6 OR PROSEAL 890 TO EN ALTERNATE PROCEEDURE FOR INSTALLING AFT TRANSITION ELBOW ASSEMBLY PN: 52/ AS350-B3 SERIES TO AVOID REROUTING OF ROTORBRAKE AND FUEL SELECTOR CABLE 	D ALIGN WITH CABIN R SIDE OF ELBOW. ASS THROUGH WITHOUT AND INSTALL GROMMET. PER STANDARD INSTALLATION UT WITH ALUMINUM FOIL, ROMMET WITH SEALING COI SURE THAT ELBOW IS AIR T 20036-3,	1. 2 3 4 5 0N 6 7 RK 1GHT. 8 A A A A A A A	TRIM M TO CAN POSITI DUCT. TRACE CUT EL INTERF OPEN J INSTAL INSTRU SEAL A PN: 070 EMI FIL LTERNATE FT TRANSIT S350-B3 SE	IATING SURFACES OF EI BIN DUCT. ON ELBOW ABOVE CABL CABLE ROUTING ONTO BOW TO ALLOW CABLES TERENCE. AFT END OF CUT TO APP JCTIONS. DPENINGS BOTH INSIDE REA BETWEEN CABLES 20078-6 OR PROSEAL 890 TER KIT P/N: 050143-2. (PROCEEDURE FOR INST. TON ELBOW ASSEMBLY RIES TO AVOID REROUT E AND FUEL SELECTOR	LES AND ALIGN WITH C LOWER SIDE OF ELBC S TO PASS THROUGH ROX 1" AND INSTALL (WALL PER STANDARD AND OUT WITH ALUMI AND GROMMET WITH TO ENSURE THAT ELE SEE TABLE 1) ALLING PN: 520036-3, ING OF	CABIN DW. WITHOUT GROMMET. D INSTALLATION INUM FOIL, SEALING CORK
TABLE	1					
FILTER	R KIT P/N: 050143-2					
	DESCRIPTION	PART NU		QTY		
FILTE	R ILTER PLACARD	13619-RF1 13619-RF1		1		
	ILTER BRACKET	04-350-21-		1		
	RY NUT PLATE RIVET	CCR264CS		4		
NUT	PLATE	MS21075-	3N	2		
SCRE	W	MS27039-	1-07	2		
WASH	HER (#10)	NAS1149E	0316J	2		
REMARKS: MINOR CHANG	<u>`</u> E			ENGINEE	RING REVIEW BOAR	RD
ADDING NOTE AND PARTS				SIGNATURE	STAMP	DATE
	STADLE.			Att	MRB04	11/9/2022
			B	The a	POIG	11/9/2022
			10	KOM	P016	11/14/2022
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					ATION STATUS	
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INSTALLATION INSTRUCTIONS:

1. AFT EVAPORATOR AND RETURN AIR DUCT INSTALLATION:

- 2. TEMPORARILY INSTALL EVAPORATOR ASSEMBLY, P/N 560010-"0"-5 UNDER NEWLY INSTALLED DOUBLER WITH 4X AN3-5A BOLTS AND 4X AN960-10 WASHERS AS SHOWN
- 3. LOCATE "RETURN AIR CONNECTOR" P/N 250166. TRIAL FIT TO THE AFT SIDE OF THE CABIN WALL, IMMEDIATELY IN FRONT OF THE AFT EVAPORATOR. THE OPEN SIDE OF THE CONNECTOR MUST FACE AFT. SLIDE THE CONNECTOR UPWARD UNTIL IT CONTACTS THE FORWARD SIDE OF THE EVAPORATOR. MARK WITH A PENCIL, THE INSIDE OF THE CONNECTORS POSITION ON TO THE EVAPORATOR. REMOVE THE CONNECTOR AND EVAPORATOR. NOTE: THIS HOLE MAY ALREADY EXIST IF IFS HAS TEST RUN SYSTEM AT IT'S LOCATION.
- LOCATE A LINE ONE (1) INCH ABOVE THE LOWER/FORWARD FACE OF THE EVAPORATOR. TRIAL FIT CONNECTOR TO THE EVAPORATOR. ENSURING THAT THE FLANGES OF THE CONNECTOR DO NOT GO PAST THE INBOARD/OUTBOARD SIDES OF THE EVAPORATOR.
- 5. CONFIRM THE PENCIL LINES. REMOVE THE CONNECTOR. CUT OUT THE AREA WITHIN THE PENCIL LINES, LEAVING THE ONE (1) INCH LOWER LIP ON THE EVAPORATOR AS A DRAIN SEAL. SEAL AND SECURE WITH RIVETS, THE CONNECTOR TO THE EVAPORATOR PER THE DRAWING.
- TRIAL FIT RETURN AIR DUCT P/N 250149. BACK DRILL FROM INSIDE THE CABIN AT FOUR PLACES, EQUALLY SPACED, AT INBOARD EDGE OF RETURN AIR DUCT FLANGE. DRILL THREE PLACES, EQUALLY SPACED, ON OUTBOARD EDGE OF RETURN AIR DUCT FLANGE THROUGH FLANGE INTO AIRCRAFT BOX SECTION
- REMOVE DUCT AND INSTALL THREE EACH A10K80 RIVNUTS UNDER OUTBOARD FLANGE LOCATION, INTO AIRCRAFT BOX SECTION. INSTALL FOUR EACH CLIPNUTS, P/N RM52LHA4972-10-02, (ALT. PN: SL215-3-1 OR 130062), ONTO INBOARD FLANGE OF RETURN AIR DUCT. INSTALL RETURN AIR DUCT WITH SEVEN EACH AN525-10R10 SCREWS (FOUR FROM INSIDE CABIN FOR CLIPNUTS), USING K501 TAPE UNDER BOTH DUCT FLANGES AS SEALANT.
- CONNECT RETURN AIR DUCT TO AFT EVAPORATOR USING ANGLE, RETURN AIR CONNECTOR ASSEMBLY, P/N 510261. USE POP RIVETS, NUTPLATES AND SCREWS. SEAL ANGLE TO RETURN AIR DUCT AND AFT EVAPORATOR HOUSING.
- INSTALL DRAIN LINE AND ROUTE AS SHOWN IN DRAWING 4-3-AS350 SHEET 1 OF 2. SECURE DRAIN LINE WITH ADEL CLAMPS OR TIE WRAPS AND ROUTE TO A LOCATION OUTBOARD OF THE BELLY PANEL. TIE WRAP TO LANDING GEAR CROSS MEMBER ON AFT SIDE.

NOTES:

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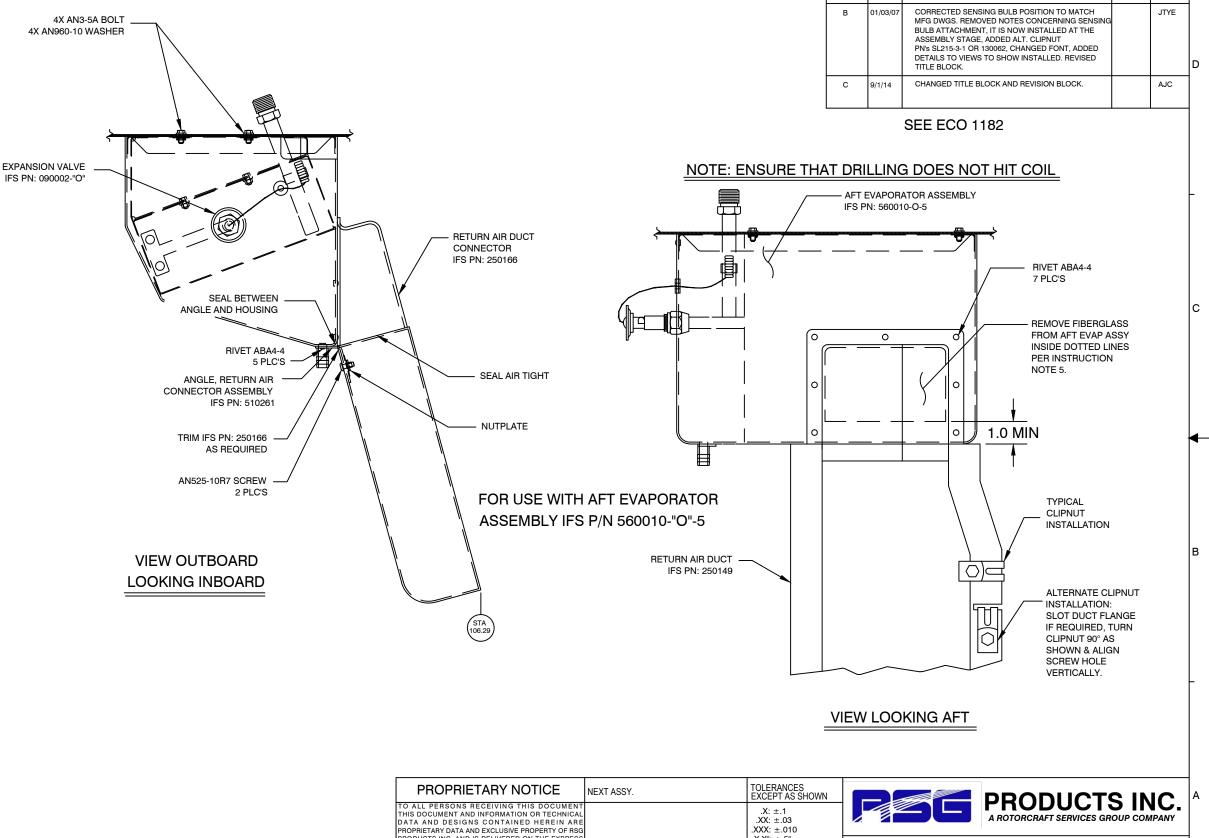
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ENSURE THAT DRAIN LINE IS NOT CRIMPED WHEN BELLY PANEL IS RE-INSTALLED.

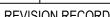
CAUTION:

BE SURE THAT THE DRAIN LINE IS PROPERLY SECURED AND LONG ENOUGH SO THAT CONDENSATION DOES NOT FLOW FROM THE LINE, AFT INTO THE BAGGAGE COMPARTMENT.



PROPRIETARY NOTICE	NEXT ASSY.	TOLERANCES EXCEPT AS SHOWN			UCTS INC.
TO ALL PERSONS RECEIVING THIS DOCUMENT THIS DOCUMENT AND INFORMATION OR TECHNICAL DATA AND DESIGNS CONTAINED HEREIN ARE PROPRIETARY DATA AND EXCLUSIVE PROPERTY OF RSG		.X: ±.1 .XX: ±.03 .XXX: ±.010			SERVICES GROUP COMPANY
PRODUCTS INC. AND IS DELIVERED ON THE EXPRESS CONDITION THAT NEITHER THIS DOCUMENT NOR THE INFORMATION CONTAINED HEREIN SHALL BE DISCLOSED TO OTHERS, REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE MANUFACTURE OR FABRICATION OF		X.X°: ±.5° BREAK ALL SHARP EDGES .01 ALL DIMENSIONS IN	TITLE: AFT EVAPORATOR INS	TALL	
PARTS FOR ANYONE OTHER THAN RSG PRODUCTS INC. WITHOUT WRITTEN CONSENT AND AUTHORIZATION, AND THAT NO RIGHT IS GRANTED TO DISCLOSE OR SO USE		INCHES UNLESS OTHERWISE STATED DATE:	DRAWN BY: DATE: TMUZZY 11/07/01	REV.: SCALE: C N/A	SHEET: 1 OF 1
ANY INFORMATION CONTAINED IN SAD DOCUMENT. THIS RESTRICTION DOES NOT LIMIT THE RIGHT TO USE INFORMATION OBTAINED FROM ANOTHER SOURCE.			APPLICATION: AS350		DWG. NO.: 4-13-AS350
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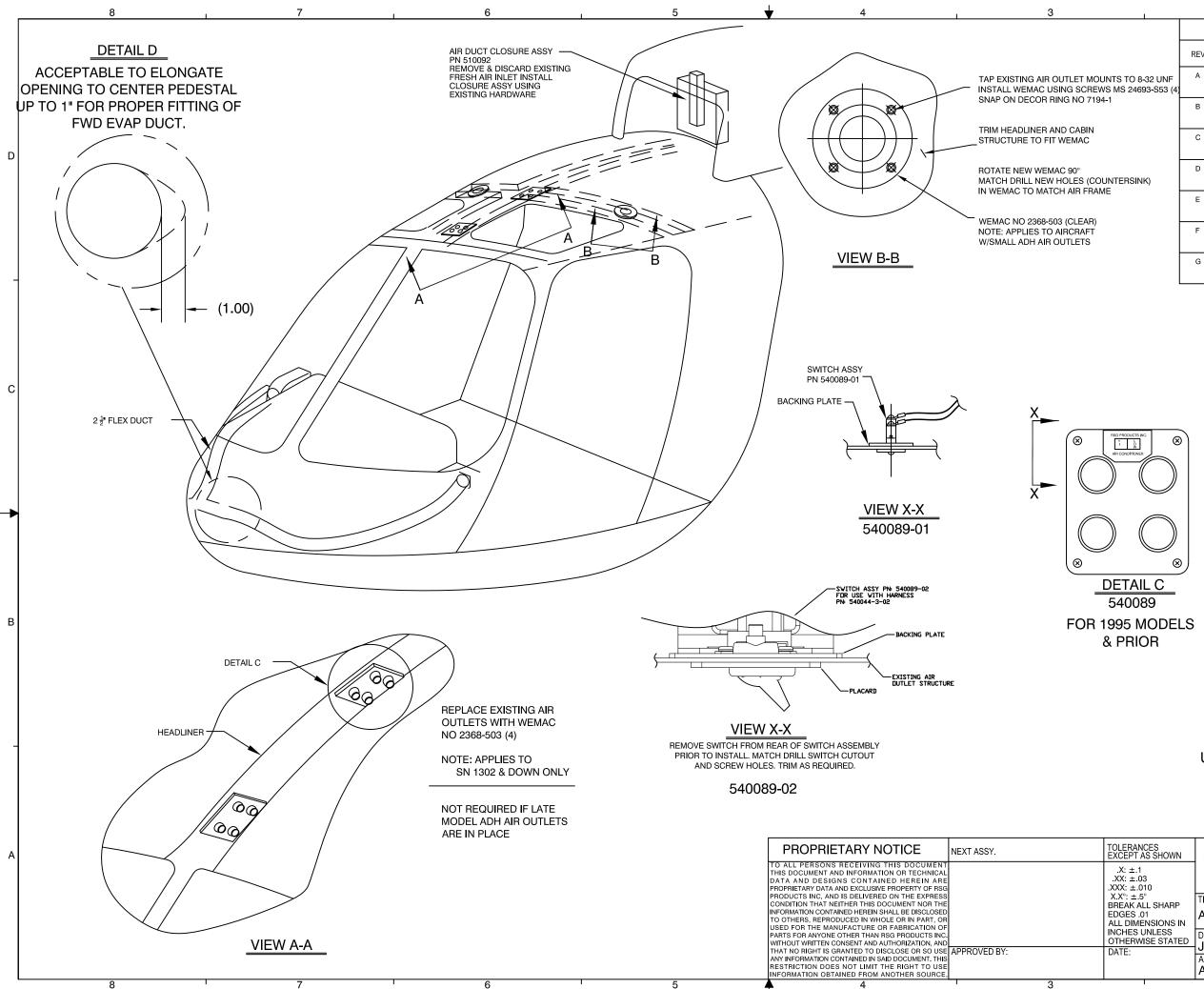


			REVISION RECORD			
	REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
	А	11/07/01	CONVERTED TO AUTOCAD			
	В	01/03/07	CORRECTED SENSING BULB POSITION TO MATCH MFG DWGS. REMOVED NOTES CONCERNING SENSING BULB ATTACHMENT, IT IS NOW INSTALLED AT THE ASSEMBLY STAGE, ADDED ALT. CLIPNUT PN's SL215-3-1 OR 130062, CHANGED FONT, ADDED DETAILS TO VIEWS TO SHOW INSTALLED. REVISED TITLE BLOCK.		JTYE	
	С	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK.		AJC	
l						•



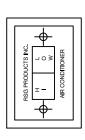
			^{ECO No.} 1182	SHT 1 OF 1
		CHANGE	DWG No. 4-13-AS3	350 REV C
PR	ODUCTS INC.	ORDER	DWG No.	REV
		ON-INTERCHANGEABLE PARTS	DWG No.	REV
		THER	REF. STC NO. SH3509S	W
	K STOCK DISPOSITION: PARTS NOT AFFECTED RE G STOCK	-work existing stock ^{THER} <u>Break in at next</u> build	EFFECTIVITY: ALL UNITS THIS CUSTOMER ALL UNITS MFG'D AFTER THIS I	
1000	ON OF CHANGE: / ION INSTRUCTIONS		EXPANSION VALVE WI	TH CORK TAPE" TO
	SULATE EXPANSION	VALVE WITH CORK T	APE	
WAS:			EVAPORATOR ASSEMBLY	
	Ŷ			
IS:			EVAPORATOR ASSEMBLY PN: 560010-0-5	
				< '
CONCERNATION CONTRACTOR OF A REAL	AINOR CHANGE. TO INSTALLATION II	nstructions.	ENGINEER SIGNATURE	RING REVIEW BOARD STAMP DATE MRB04 10/7/2022 QA22 10/7/2022 P016 p/p/2022
			INCODES.	
				ATION STATUS OUTSTANDING

RSG Products Form 33.21 Rev. A 9/19/2011



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			REVISION RECORD			
	REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
8-32 UNF 1693-S53 (4)	A	03/27/91	TITLE WAS CAS, IS NOW IFS.			
	В	11/15/95	ADDED DETAIL C.			
	С	08/16/00	WAS 5-AS350, IS NOW 5-10-AS350. RECONFIGURED AIR OUTLETS			
INK)	D	06/15/03	REVISED TITLE BLOCK, REMOVED PAG.			
	E	09/09/09	REVISED TITLE BLOCK. ADDED ARROWS FOR VIEW X-X. CORRECTED DETAIL C.			
	F	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK, ADDED -02 VIEWS AND INSTRUCTIONS PER ECO # 0709.		AJC	
	G	01/19/22	ADDED NOTE TO TOP DETAIL VIEW C. REMOVED BOTTOM DETAIL C VIEW. MODIFY NOTE TO VIEW LOCATED IN ZN B1. CHANGED SCREW SIZE ON		SGB	
			NOTE IN VIEW B-B PER ECO's 0817 & 0980.			1









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LOCATE SWITCH ASSY AFT & LEFT OR RIGHT OF EXISTING AIR OUTLETS FOR 1995 MODELS & ON

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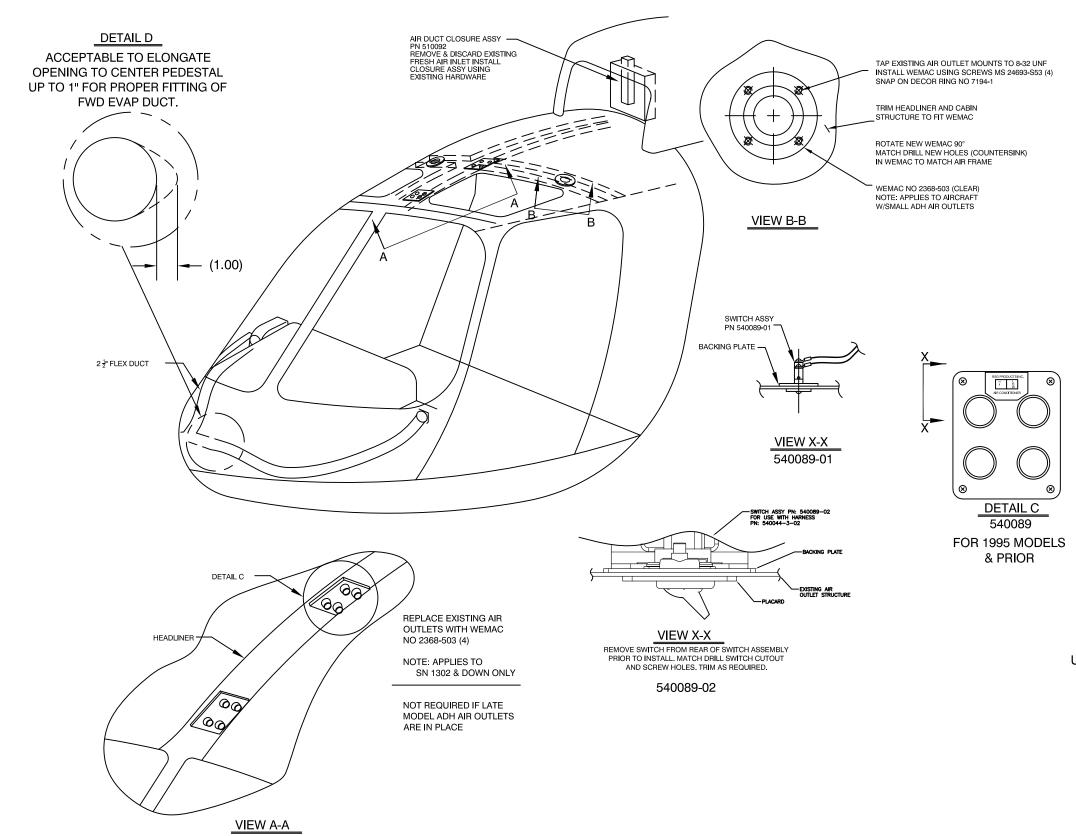
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ANCES T AS SHOWN 1 03 010					UCTS INC. SERVICES GROUP COMPANY	•
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S UNLESS WISE STATED	DRAWN BY: JM	DATE: 06/20/85	REV. G	SCALE: N/A	SHEET: 1 OF 1	
	APPLICATION: AS350				DWG. NO.: 5-10-AS350	
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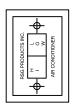
CHANGE CLASS: RECORD CHG. PARTS NOT AFFECTED NON-INTERCHANGEABLE PARTS INTERCHANGEABLE PARTS OTHER	DWG NO. DWG NO. DWG NO. REF. STC NO. SH3509SW EFFECTIVITY: ALL UNITS THIS CUSTOMER ALL UNITS MFG'D AFTER THIS DATE	
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REMARKS: MINOR CHANGE. REMOVING OBSOLETE DATA.	INCORPORATION	STAMP DATE IRB04 10/7/2022 QA22 10/7/2022 O16 /0/0/0022



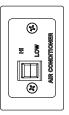
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ering	eco no. 1177	SHT 2 OF 3
	^{DWG No.} 5-10-AS350	^{rev} G
	DWG No.	REV
	DWG No.	REV
	REF. STC NO. SH3509SW	



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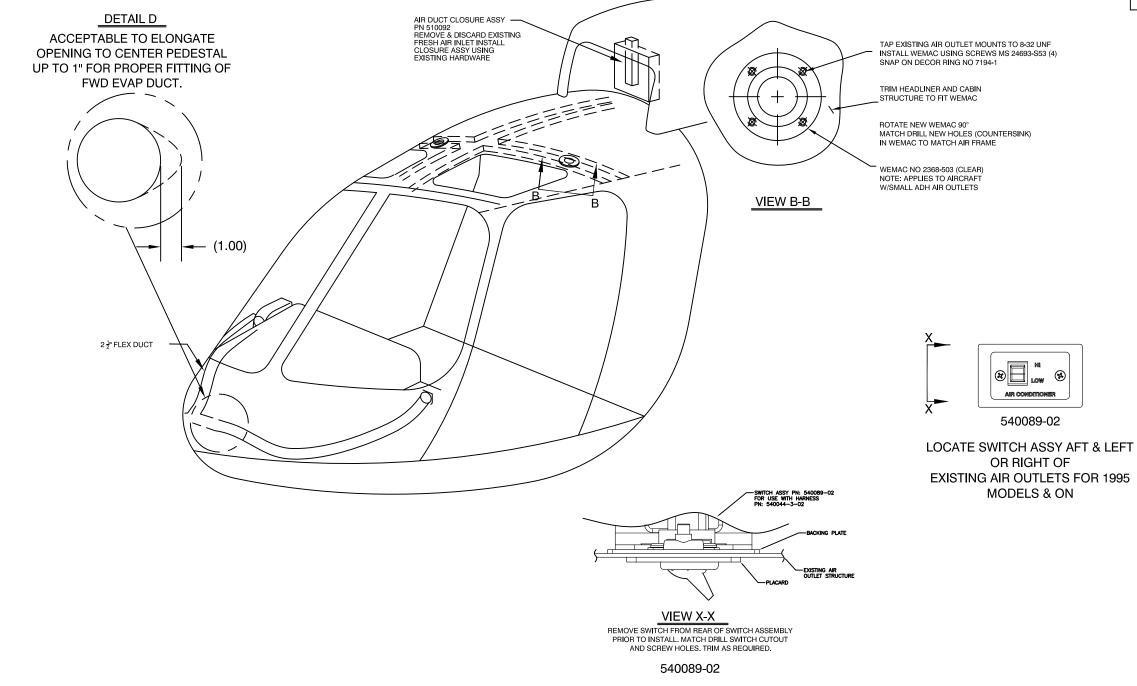
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LOCATE SWITCH ASSY AFT & LEFT OR RIGHT OF EXISTING AIR OUTLETS FOR 1995 MODELS & ON

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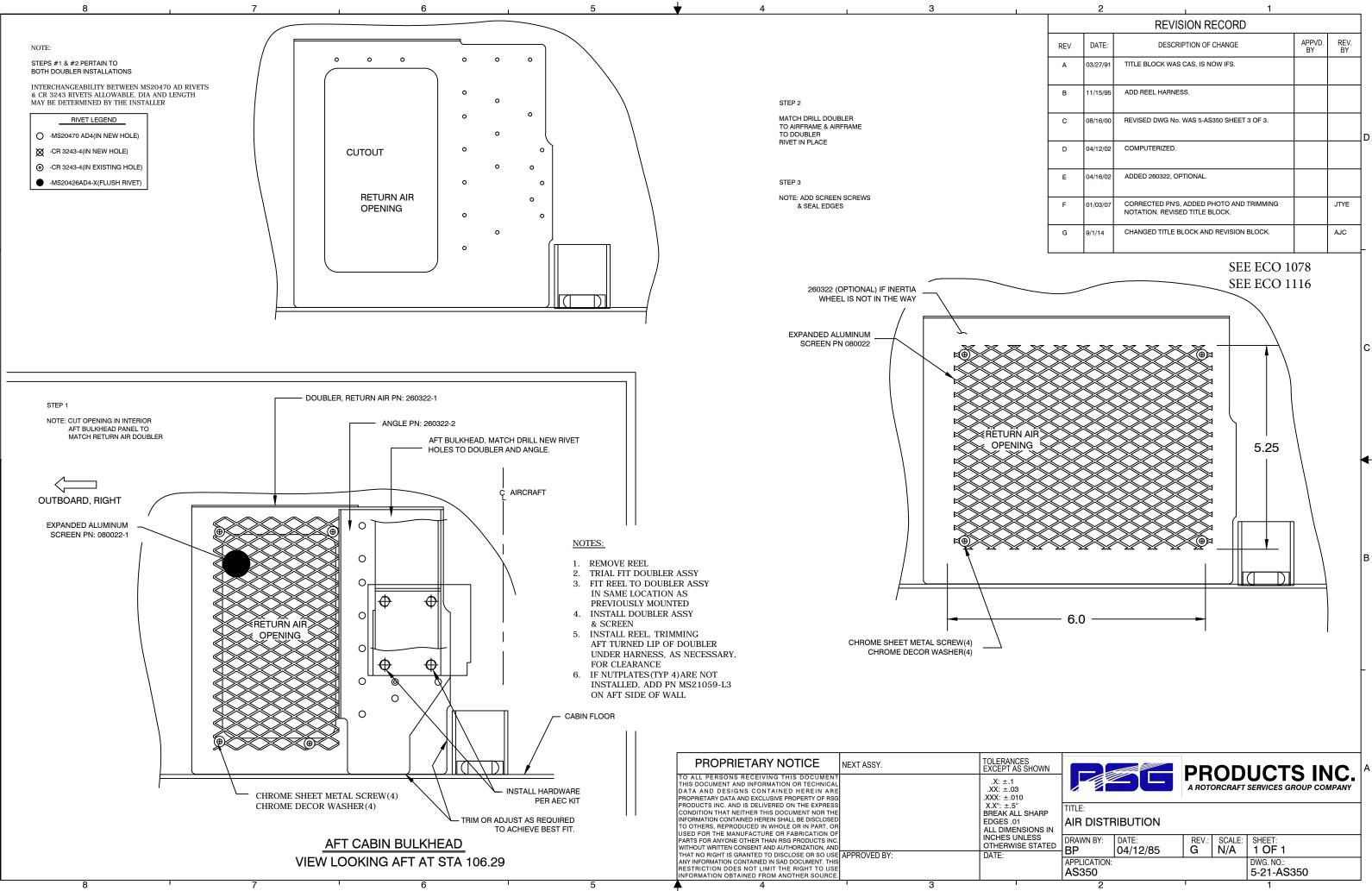
AEC BASIC





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ERING	eco no. 1177	SHT 3 OF 3
	^{DWG No.} 5-10-AS350	^{rev} G
	DWG No.	REV
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	REF. STC NO. SH3509SW	



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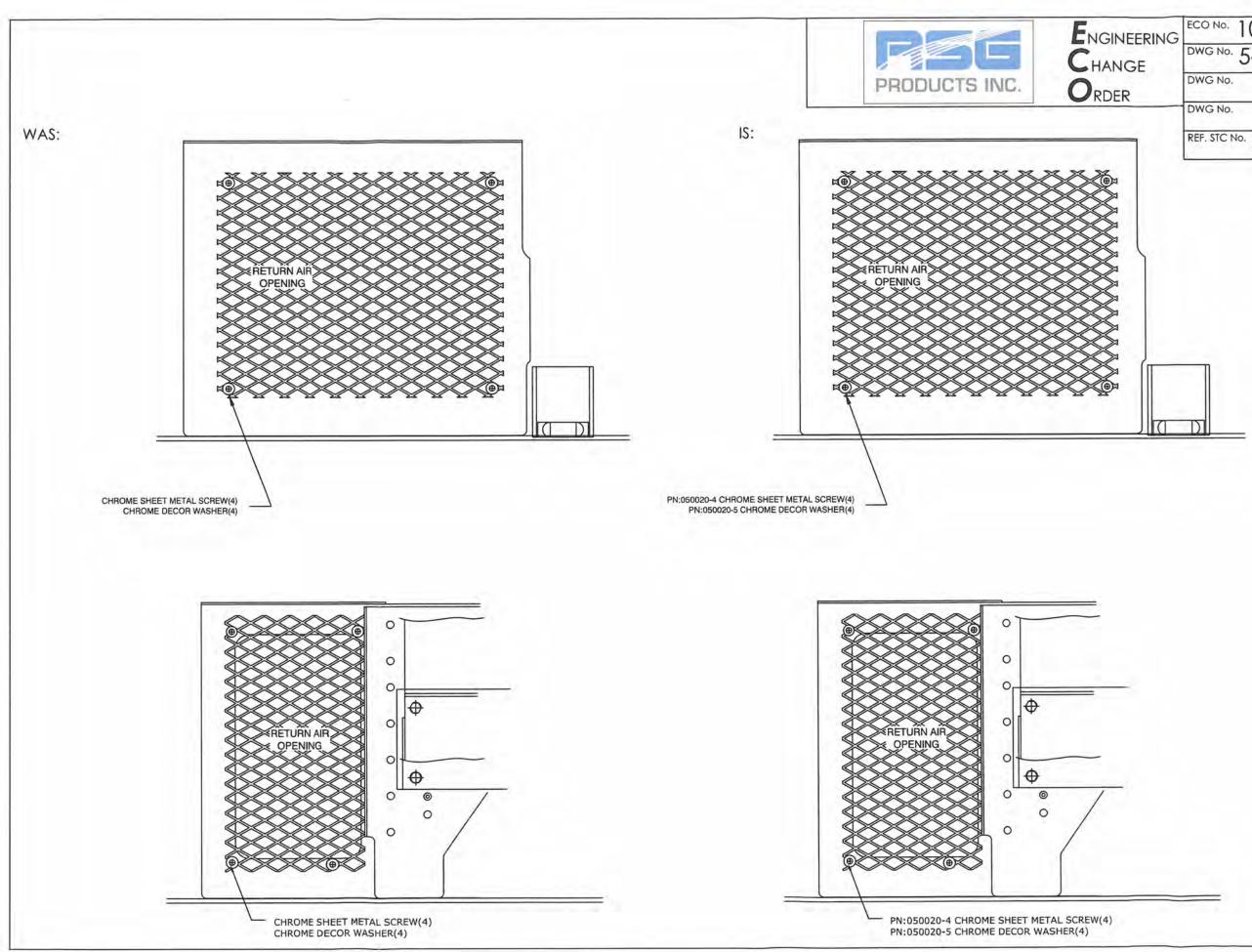
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	REVISION RECORD				
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
A	03/27/91	TITLE BLOCK WAS CAS, IS NOW IFS.			
В	11/15/95	ADD REEL HARNESS.			
С	08/16/00	REVISED DWG No. WAS 5-AS350 SHEET 3 OF 3.			
D	04/12/02	COMPUTERIZED.			
E	04/16/02	ADDED 260322, OPTIONAL.			
F	01/03/07	CORRECTED PN'S, ADDED PHOTO AND TRIMMING NOTATION. REVISED TITLE BLOCK.		JTYE	
G	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK.		AJC	

		ECO No.	1078		SHT 1 OF 2
	CHANGE	DWG No.	5-21-AS3	50	REV G
PRODUCTS INC.	ORDER	DWG No.			REV
HANGE CLASS:	KDER	DWG No.			REV
RECORD CHG. PARTS NOT AFFECTED		REF. STC N	10		
	HER	KET. STOT	<u>SH3509S</u>	W	
(ISTING/IN-WORK STOCK DISPOSITION: RECORD CHG. PARTS NOT AFFECTED		EFFECTIV	ITY:		UNITS SPECIFIED
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DESCRIPTION OF CHANGE: A PN: 050020-5 FOR THE CHRO					
MARKINGS FOR CLARITY.					
EMARKS:			ENGINEER	ING REVIEW BOA	RD
EMARKS:				STAMP	RD DATE
MARKINGS FOR CLARITY. EMARKS: DD SCREW AND WASHER PN			ENGINEER	STAMP MRB04	RD DATE 2/28/2022
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EMARKS:			ENGINEER	STAMP MRB04	RD DATE 2/28/2022

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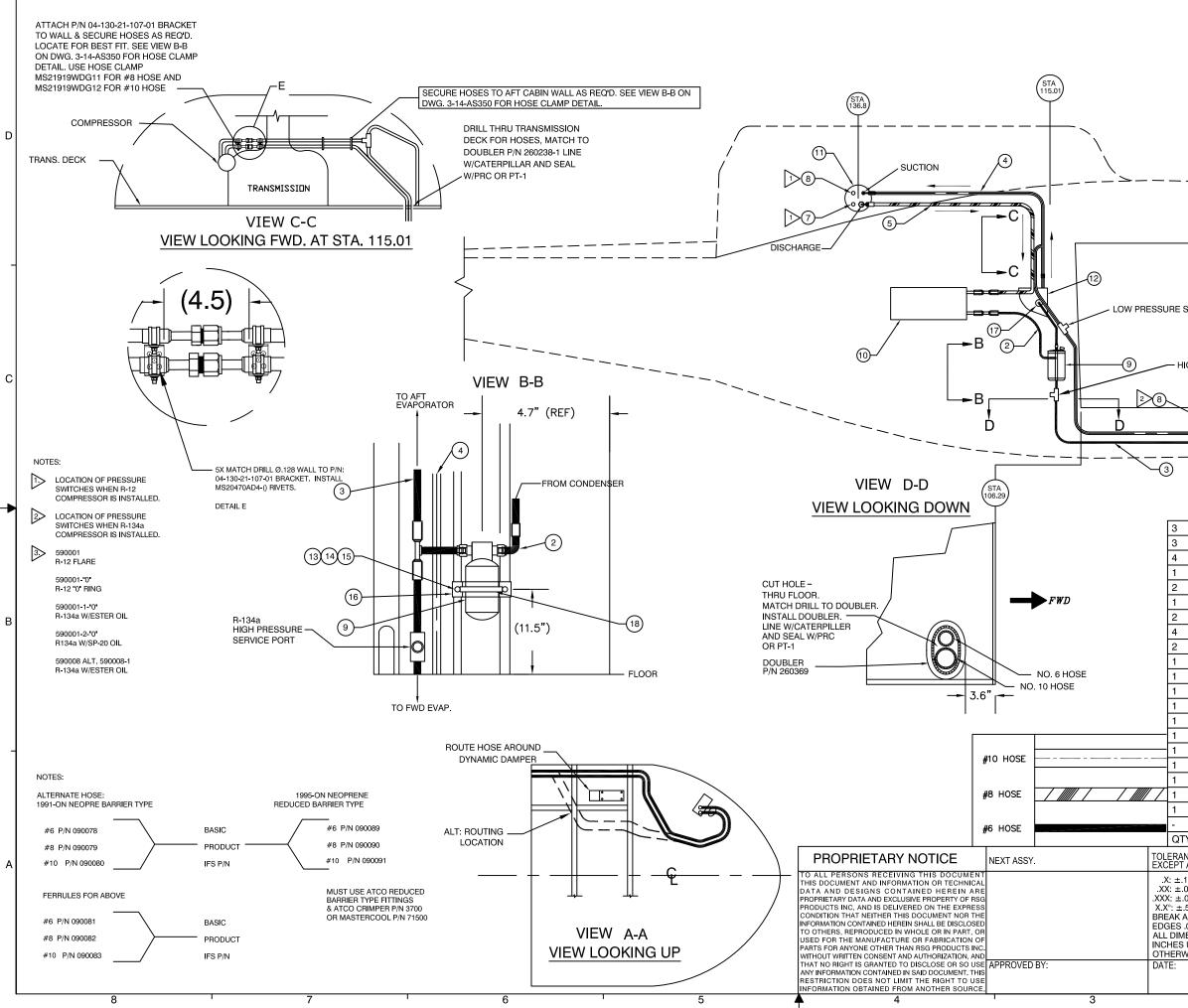
RSG Products Form 33.21 Rev. A 9/19/2011



NG	ECO No. 1078	SHT 2 OF 2
10	DWG No. 5-21-AS350	REV G
	DWG No.	REV
	DWG No.	REV
	REF. STC No. SH3509SW	

		ECO No. 1116	SHT] OF]
	CHANGE	DWG NO. 5-21-AS	350 REV G
PRODUCTS IN		DWG No.	REV
CHANGE CLASS:		DWG No.	REV
RECORD CHG. PARTS NOT AFFECTED		REF. STC No. SH35095	ŚW
EXISTING/IN-WORK STOCK DISPOSITION RECORD CHG. PARTS NOT AFFECTED SCRAP EXISTING STOCK		EFFECTIVITY:	
	GE: ADD "UPPER" TO NOT CCR264SS3-X" TO NOTE		LL EXISTING NUT PLATES
WAS:	NOTES:		
	 REMOVE REEL TRIAL FIT DOUBLER AS FIT REEL TO DOUBLER IN SAME LOCATION AS PREVIOUSLY MOUNTED INSTALL DOUBLER ASS & SCREEN INSTALL REEL, TRIMMI AFT TURNED LIP OF DO UNDER HARNESS, AS I FOR CLEARANCE IF NUTPLATES(TYP 4)A INSTALLED, ADD PN M ON AFT SIDE OF WALL 	ASSY SD SY ING OUBLER NECESSARY, RE NOT IS21059-L3	
IS:	NOTES:		
	 REMOVE REEL TRIAL FIT DOUBLER AS FIT REEL TO DOUBLER IN SAME LOCATION AS PREVIOUSLY MOUNTER INSTALL DOUBLER ASS & SCREEN INSTALL REEL, TRIMMI UPPER AFT TURNED LI UNDER HARNESS, AS I FOR CLEARANCE IF NUTPLATES(TYP 4)A INSTALLED, ADD PN M ON AFT SIDE OF WALL EXISTING NUT PLATES MS20426AD3-X OR CO 	ASSY 5 D SY ING P OF DOUBLER NECESSARY, NRE NOT IS21059-L3 L, OR REINSTALL S USING	
REMARKS:		ENGINEE SIGNATURE	RING REVIEW BOARD
MINOR CHANGES FOR PR	ODUCT IMPROVEMENT.	And	STAMP DATE MRB04 5/12/2022 QA22 5/12/2022 PO16 5/12/2022 SATION STATUS

RSG Products Form 33.21 Rev. A 9/19/2011



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			REVISIO)N RE	CORD				
	REV	DATE:	DESCRIPTIC	ON OF C	HANGE		APPVD. BY	REV. BY	
	A	06/05/02	CONVERTED TO AUTO	CAD.					
	В	06/30/08	REVISED TITLE BLOCK	ζ.			MLD	JTYE	
	с	09/01/14	CHANGED TITLE BLOC			BLOCK.		AJC	
	D	01/19/22	INCORPORATED ECO (0909.				SGB	D
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21	09009	4	#10 O-RING						
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19	09009		#6 O-RING		_				
18	06003		3 INCH BAND		P				
17	09000		EXPANSION V						
16	26012		RECEIVER DR		OUNT				
15	AN960	044-N3	WASHER						В
13	AN960 AN3-5		BOLT						
12	56001		AFT EVAPORA	TOR					
11	59000		COMPRESSOR		C R-134a	O-RING (590	008-1 GR	DOVED)	
10	55000		CONDENSER					,	
9	09001	6-5	RECEIVER DR	IER BO	OTTLE				
8	05010	7	LOW PRESSU	RE SV	VITCH				
7	09000		HIGH PRESSU						
6	56002		FORWARD EV					 	•
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4	57008								
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<u>5</u> ° ALL SHARP 5 .01 MENSIONS I	PLU		G DIAGRAM						
S UNLESS		VN BY: DEAN		REV.: D	SCALE: N/A	SHEET: 1 OF 1			
	APPL	ICATION:	1			DWG. NO.:	:0		
-1	AS	350 2				3-4-AS35	0		
		2				I I			

			ECO No. 1141	SHT 1 OF 1
		CHANGE	DWG NO. 3-4-AS350	REV D
	PRODUCTS INC.		DWG No.	REV
			DWG No.	REV
CHANGE	CLASS: D CHG. PARTS NOT AFFECTED 🔲 N	ON-INTERCHANGEABLE PARTS	REF. STC No.	
	HANGEABLE PARTS	THER	SH3509SW	
	N-WORK STOCK DISPOSITION: D CHG. PARTS NOT AFFECTED 🗌 RE		EFFECTIVITY:	IMITED UNITS SPECIFIED
		THER BREAK IN AT NEXT BUILD	ALL UNITS MFG'D AFTER THIS DATE	
	CRIPTION OF CHANGE: ALLATION. ADD BUBBLE		AD4 IN VIEW D-D FOR DOUBL ITEM 22 QTY 12.	_ER
WAS	•	VIEW D-D		
		VIEW LOOKING DOW	<u>/N</u>	
		Г		
	CUT HOLE	_		
	THRU FLOO	1	FWD	
	INSTALL DO LINE W/CA	DUBLER.		
	AND SEAL OR PT-1			
	DOUBLER P/N 260369			
IS:		VIEW D-D		
		VIEW LOOKING DOW	<u>/N</u>	
		Γ		
	CUT HOLE THRU FLOO	DR.		
		ILL TO DOUBLER.	FWD	
		TERPILLER		
	OR PT-1			
	DOUBLER P/N 260369		<u>)</u>	
	× . : CRIPTION OF CHANGE			
	12 22 MS20470AI			_
	QTY ITEM PART NUM	BER DESCRIPTION		
	RKS: MINOR CHANGE		ENGINEERING REVI SIGNATURE STA	
1. Martin Science Production State	ected note in view D- Co Cancels eco 1119		MR	8/2/2022
		•	Sy the QA	22 8/2/2022
			REAL PO	16 8/7 2022
			INCORPORATION STA	
				TSTANDING

RSG Products Form 33.21 Rev. A 9/19/2011

			ECO No. 1163	SHT 1 OF 1			
		CHANGE	DWG NO. 3-4-AS3	50 REV D			
	PRODUCTS INC.	ORDER	DWG No.	REV			
CHANGE	CLASS:		DWG No.	REV			
	RECORD CHG. PARTS NOT AFFECTED INON-INTERCHANGEABLE PARTS						
	EXISTING/IN-WORK STOCK DISPOSITION: EFFECTIVITY: RECORD CHG. PARTS NOT AFFECTED RE-WORK EXISTING STOCK SCRAP EXISTING STOCK OTHER BREAK IN AT NEXT BUILD ALL UNITS MFG'D AFTER THIS DATE						
	CRIPTION OF CHANGE: E ALLATION. ONLY SHOWI			OR HOSE			
WAS	WAS: ATTACH P/N 04-130-21-107-01 BRACKET TO WALL & SECURE HOSES AS REOD. LOCATE FOR BEST FIT. SEE VIEW BB ON DWG. 3-14-ASS50 FOR HOSE CLAMP DETAIL. MS21919WDG12 FOR #10 HOSE MS21919WDG12 FOR #10 HOSE TRANSMISSION VIEW C-C VIEW C-C VIEW LOOKING FWD. AT STA. 115.01						
IS:							
	ATTACH P/N 04-130-21-107-01 BRACKET TO WALL & SECURE HOSES AS REOD. LOCATE FOR BEST FIT. SEE VIEW B-B ON DWG. 3-14-AS350 AND 3-15-AS350 FOR HOSE CLAMP DETAIL. USE HOSE CLAMP MS21919WDG11 FOR #8 HOSE AND MS21919WDG12 FOR #10 HOSE MS21919WDG12 FOR #10 HOSE VIEW C-C VIEW C-C VIEW LOOKING FWD. AT STA. 115.01						
10 1001 1000 No. 1000 No.	RKS: MINOR CHANGE.		ENGINEE SIGNATURE	RING REVIEW BOARD			
In contrast of the second	dwg 3-15-AS350 to no co cancels eco 1142			MRB04 8/17/2022			
			by Im	QA22 \$/17/2022			
			KMM	P016 8/17/2022			
				ATION STATUS			

RSG Products Form 33.21 Rev. A 9/19/2011

			ECO No. 1173	SHT 1 OF 1				
		CHANGE	DWG NO. 3-4-AS35	50 REV D				
	PRODUCTS INC.	ORDER	DWG No.	REV				
CHANGE	CLASS:	KDEK	DWG No.	REV				
	RECORD CHG. PARTS NOT AFFECTED INON-INTERCHANGEABLE PARTS INTERCHANGEABLE PARTS INON-INTERCHANGEABLE PARTS INTERCHANGEABLE PARTS INON-INTERCHANGEABLE PARTS SH3509SW							
EXISTING/I	EXISTING/IN-WORK STOCK DISPOSITION: EFFECTIVITY:							
	RECORD CHG. PARTS NOT AFFECTED RE-WORK EXISTING STOCK ALL UNITS THIS CUSTOMER LIMITED UNITS SPECIFIED SCRAP EXISTING STOCK OTHER BREAK IN AT NEXT BUILD ALL UNITS MFG'D AFTER THIS DATE OTHER ALL UNITS							
	CRIPTION OF CHANGE: / RACKET P/N 04-130-21-							
WAS	ATTACH P/N 04-130-21-107 TO WALL & SECURE HOSE LOCATE FOR BEST FIT. SE ON DWG. 3-14-AS350 FOR DETAIL. USE HOSE CLAMP MS21919WDG11 FOR #8 H MS21919WDG12 FOR #10 J	S AS REQ'D. E VIEW B-B HOSE CLAMP OSE AND						
		TRANSMISS VIEW VIEW LOOKING FW	c-c					
15.								
	IS: OPTIONAL: ATTACH P/N 04-130-21-107-01 BRACKET TO WALL & SECURE HOSES AS REQD. LOCATE FOR BEST FIT. SEE VIEW B-B ON DWG. 3-14-AS350 FOR HOSE CLAMP DETAIL. USE HOSE CLAMP MS21919WDG112 FOR #1 HOSE MS21919WDG12 FOR #10 HOSE TRANSMISSION VIEW C-C							
		VIEW LOOKING FW		RING REVIEW BOARD				
	RKS: MINOR CHANGE. TE NOTE FOR VIEW C-C.		SIGNATURE	STAMP DATE				
UPDAI	E NOTE FOR VIEW C-C.		Ath	MRB04 9/26/2022				
			Sy Am	- QA22 9/26/2022				
			KAMA	P015 9/26/2022				
			INCOPPOR					

RSG Products Inc. INSTALLATION OF CONDENSER – AS350 Air Conditioning

Step 6

Installation of Condenser

Page 1 of 6

RSG Products Inc.

INSTALLATION OF CONDENSER – AS350 Air Conditioning

Installation of Condenser

STEP	PROCEDURE	MECH	INSP			
<u>NOTE:</u>	Do not install P/N 260148-3 before installing mount channels P/N 510007 and 510008. Complete steps 6.8 thru 6.11 prior to step 6.7.					
6.1	Locate Condenser Fan Mounting Channel P/N 260148-3 and Fan Channel Base Angle P/N 260020 these will be mounted in the right hand baggage compartment.					
6.2	Remove support channel AEC P/N 2105000001 per drawing 7-2-AS350 Sheet 1 of 2.					
6.3	Position in place P/N 260148-3 and P/N 260020 as shown in drawing 7-2-AS350 Sheet 1 of 2. Back drill in place and Cleco. Fit filler P/N 260862 and drill in place per drawing 7-2-AS350 Sheet 1 and 2.					
6.4	Position Battery compartment shelf P/N 260333 with mount angles, P/N 260335, drill in place, see drawing 7-2-AS350 Sheet 1 of 2.					
6.5	Be sure to pick up all holes as shown in drawing 7-2-AS350 Sheet 1 of 2, including upper shelf shown in drawing 7-11-AS350.					
6.6	Align electrical panel assembly P/N 540028-C-2-A as shown in drawing 7-11-AS350. Create paper template for hole pattern on bottom of electrical panel assy. Use template to mark and drill shelf, mount P/N 540028-C-2-A using 3 ea. AN3-4A bolts. See drawing 7-2-AS350 for alternate electrical box location.					
6.7	Remove all parts, clean holes, reinstall and rivet in place, as shown in drawings 7-2-AS350, Sheets 1 and 2 of 2.					
6.8	Locate forward and aft condenser channel assemblies, P/N 510008 and P/N 510007. These will be located in the upper right hand baggage compartment.					
6.9	Position forward channel P/N 510008 as shown in drawing 7-2-AS350 Sheet 2 of 2. Back drill all holes.					

RSG Products Inc. INSTALLATION OF CONDENSER – AS350 Air Conditioning

Installation of Condenser

STEP	PROCEDURE	MECH	INSP
6.10	Remove and clean holes and rivet in place as per drawing 7-2-AS350 Sheet 2 of 2.	- Willen	
6.11	Repeat steps 6.9 and 6.10 for install of P/N 510007 nutplate, and other OEM equipment, as required for best fit to COND FAN MTG CHANNEL per drawing 7-2-AS350 sheet 2 of 2.		
6.12	If required: Install mount angle P/N 260002 on condenser: Measure 1.5" from aft (left) of condenser, draw a line parallel to aft end. Center mount angle over existing 3 holes on top of condenser. Align vertical flange over line drawn on condenser. Now transfer 3 holes to mount angle. Drill holes in mount angle. Next mount angle to condenser with 3 ea. AN3-5A bolts and 3 ea. AN960-10 washers as shown in drawing 7-11-AS350.		
6.13	Position the other mount angle P/N 260002 in fwd overhead channel as shown in drawing 7-2-AS350 Sheet 2 of 2, and adjust height as shown in drawing 7-11-AS350. Position condenser assembly in aircraft using previously installed (aft) angle as a guide and slide it up into the aft channel assembly. When condenser is level and at the correct height, check and make sure aft end of condenser is tight against condenser fan channel P/N 260148-3. If not, adjust aft mount angle.		
6.14	Now mark aft mount angle using 2 holes in aft channel assembly P/N 510007 as shown in drawing 7-2-AS350 sheet 1 of 2. Remove condenser and drill holes. Reinstall condenser assembly and temporarily bolt into position. Next mark position of fwd mount angle onto condenser, also mark 7" diameter fan hole along with 4 ea. mounting holes using condenser fan mounting channel 260148-3 as a guide. Remove condenser assembly, position fwd mounting angle on condenser using marking as a guide. Pick up existing 3 holes on condenser. Drill and mount angle using 3 ea. AN3-5A bolts and 3 ea. AN960-10 washers. Now cut out 7" diameter hole as marked and drill out 4 mounting holes. NOTE: Be careful not to cut or drill condenser coil inside condenser, You have about 1" clearance from the end of the housing to the coil. Now mount existing fan mount ring inside of the end of the condenser using drilled mount holes to align ring. Install 4 ea. screws or bolts. Drill 2 ea. #40 holes on mount ring) and install with CCR264SS3-3 rivets. Install condenser assembly.		

r	INSTALLATION OF CONDENSER – ASSSO AII COIMINI	g
6.15	Locate condenser air intake assembly P/N 520071 or 520071-1. This will be installed in right baggage door per drawing 8-2-AS350, 1 and 2 of 2.	
6.16	Temporarily install right baggage door. Take measurements from door frame to find center of condenser. Mark this center on door. Cut 4" Dia. Hole on center. Put hand through hole and using condenser cut out as guide to mark back of door. Remove door, place air intake assembly P/N 520071(-1) on back of door with lip towards door. Aligning the Aft Lip to mark on door. <u>NOTE:</u> The lip is the part that will be inserted into the door, not the mounting flange. Adjust up and down. See if top line is 3.2" down from top of door. Fit inside of top and bottom marks. Make sure you keep Air Intake level with tip edge of door. Now trace around lip.	
6.17	Cut out hole using marks. Cut inside marks, and cut or sand as necessary to fit air intake.	
6.18	Temporarily install door. Insert air intake. Adjust cutout in condenser as necessary to fit air intake. Do not cut beyond Aft face of condenser. Leave flange going towards condenser. The Fwd end of the condenser can be cut as necessary. The bottom flange of condenser can be trimmed a little, but, leave at least .75" lip. Top can be trimmed almost to top of flange.	
6.19	Mark and cut out fan outlet hole per drawing 8-2-AS350 Sheet 1 of 2. Fit Screen Assy. Cond. Exhaust PN: 520052-1 or -2, adjust holes as necessary. Position Screen Assy. as shown in drawing 8-2-AS350 sheet 2 of 2 and drill 5 holes as shown in drawing 8-2-AS350 sheet 1 of 2.	
6.20	Lay 2 layers of 7.5 oz. – 8 oz. Cloth with resin as shown per drawing 8-2-AS350 sheet 1 of 2.	
6.21	Remove door inner core 1" inside of both cut outs. Next fill in with Hysol 960 or Metalset A-4.	
6.22	Reinstall inlet and outlet. Drill mounting holes and install with MS24693S278 screws, Tinnerman washers A3235-020-24A and nuts MS20364-1032C.	
6.23	Paint to match.	

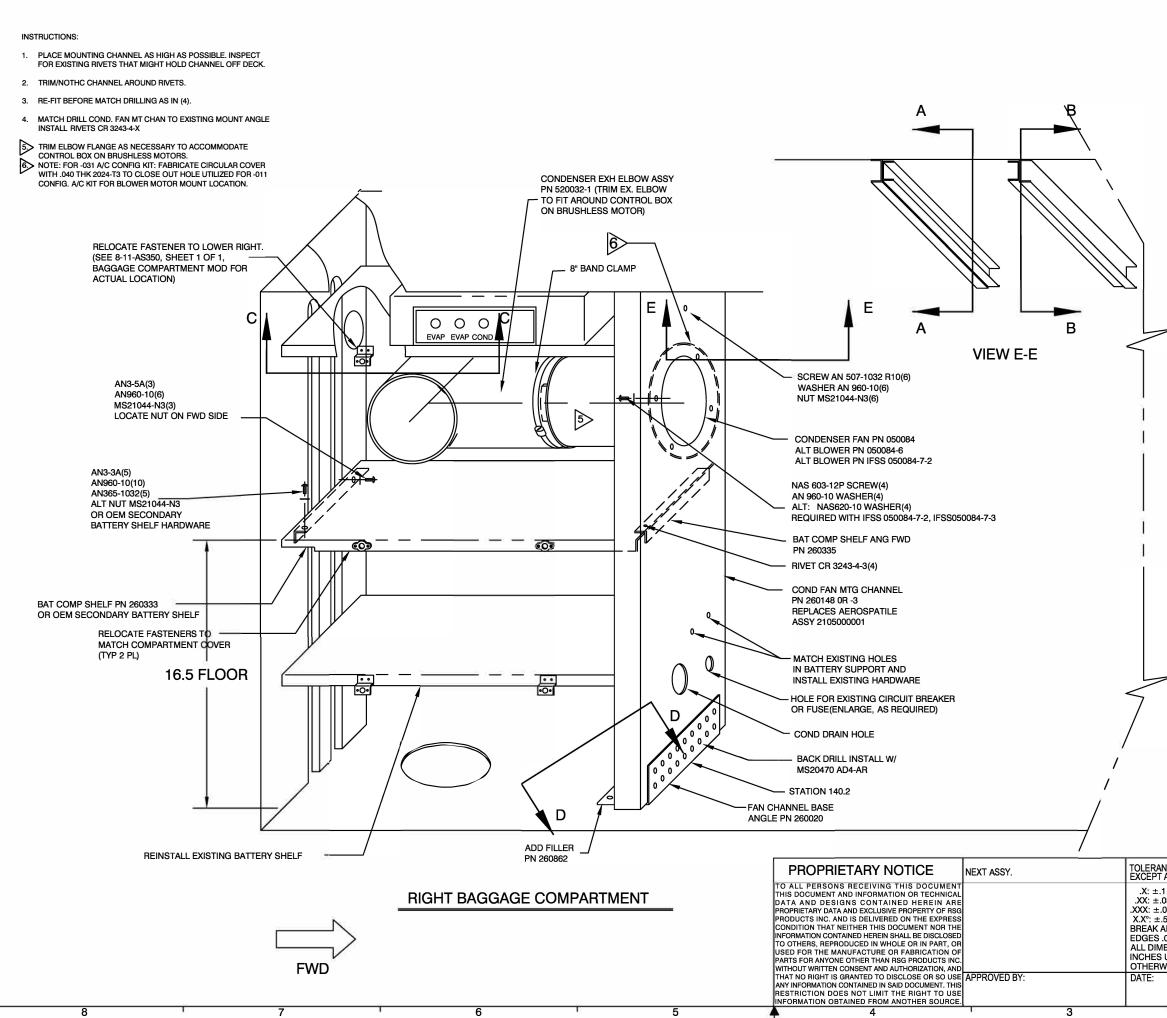
RSG Products Inc. INSTALLATION OF CONDENSER – AS350 Air Conditioning Installation of Condenser

STEP	PROCEDURE	MECH	INSP
6.24	Modify battery cover, P/N 260339 per drawing 8-2-AS350 Sheet 2 of 2.		
6.25	Modify cargo net as shown in drawing 8-11-AS350. Install as shown.		
6.26	When condenser assembly P/N 550007-1 is installed, mount condenser fan assembly, P/N 050084-6** and elbow assembly P/N 520032-1. See drawing 7-2-AS350 Sheet 1 of 2. Install Drain Hose P/N 090018.		

** Or Approved Alternate 7" Blower Assembly. See Sect. 13, for current approved part.

RSG Products Inc. INSTALLATION OF CONDENSER – AS350 Air Conditioning

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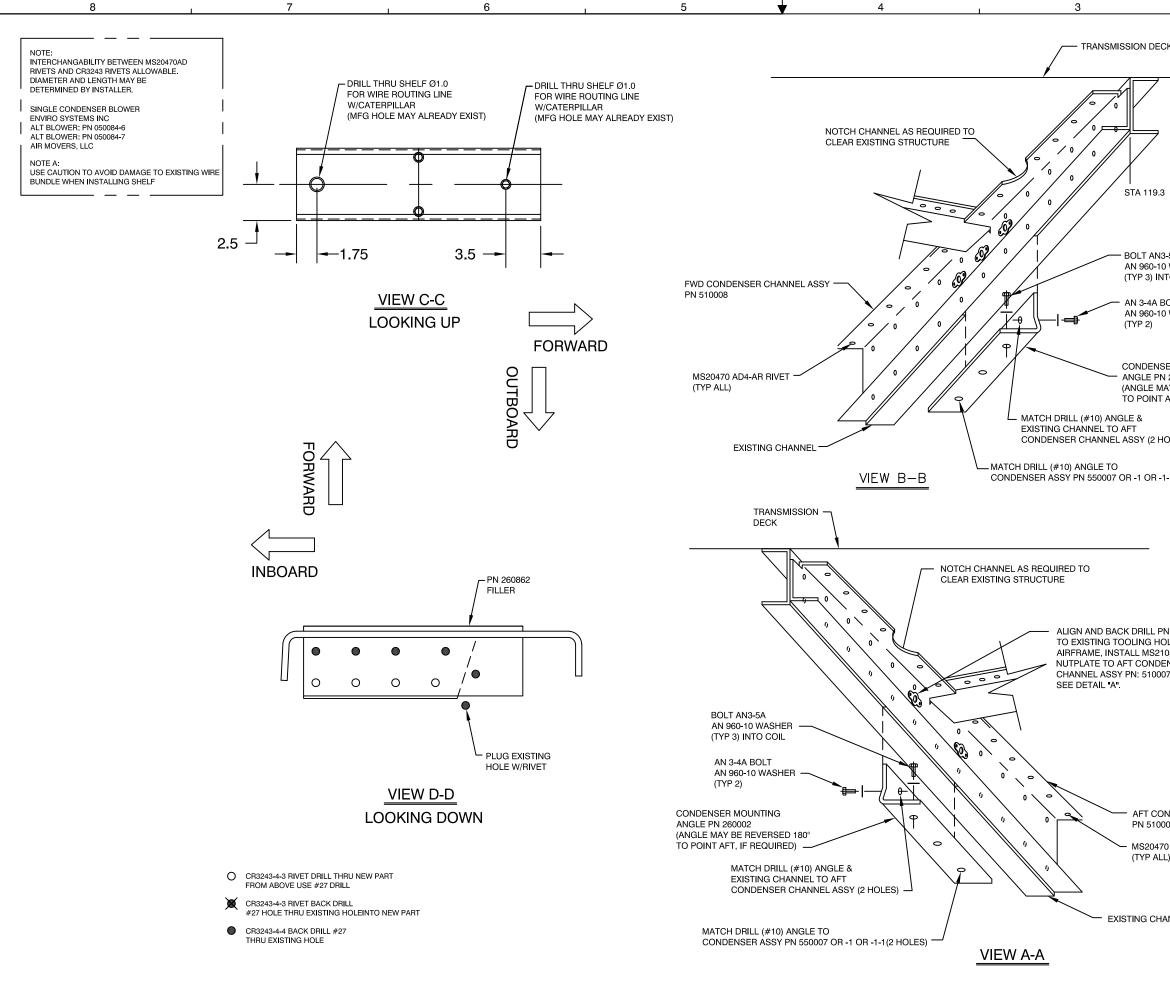
		REVISION RECORD			
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
A	03/27/91	ADDED CP102 AND CP103, INTEGRATED FLIGHT WAS CONSOLIDATED AIRE, TITLE BLOCK WAS CAS, IS IFS.			
В	08/16/00	REVISED DRAWING NUMBER, WAS 5-AS 350; SHEET NUMBER WAS 1 OF 3, ADDED NOTE.			1
С	04/12/02	COMPUTERIZED, REVISED TITLE BLOCK.			
D	01/03/07	CORRECTED DRAWING No. REF. WAS 8-AS350, SHEET 1 OF 2. IS 8-11-AS350 SHEET 1 OF 2.			1
E	06/30/08	ADDED NOTE 5. REVISED TITLE BLOCK. ADDED TRIM ANNOTATION TO COND. ELBOW ASSY. ADDED INTERCHANGEABLE BLOWERS.		JTYE	1
F	03/04/10	DELETED BLOWER P/N: IFSS 050084-7 WITH BLOWER P/N: IFSS 050084-7-2.		JM	
G	04/08/10	DELETED BLOWER P/N: IFSS 050084-7-1 WITH BLOWER P/N: IFSS 050084-7-3.		JM	
н	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK. CORRECTED HARDWARE CALLOUT & ADDED SHEET 3 WITH MOUNTING CONFIG. PER ECO # 0289 & 0536		AJC	
IC	01/19/22	ADDED FLAG NOTE 6 FOR CONFIG031 A/C KIT. MODIFIED DIMENSION & NOTES FOR PARTS & HARDWARE. REFLECT FLAG NOTE TO VIEW. FOR SHEET 3 OF 4: MODIFIED OPTIONAL LOCATION HARDWARE CALLOUT. ADDED VIEW OF ALTERNATE LOCATION FOR ELECTRICAL BOX INSTALL IF USING EXISTING OEM CHANNEL. ADDED SHEET 4 OF 4 TO SHOW RELOCATION OF EXISTING DATA TAG FOR AIRBUS INSTALLATION. ADDED VIEW AND NOTEC. PERFECOS 0020, 0056, 0095 AND 10419.		SGB	0

INTERCHANGEABLE 7" BLOWERS

050084-1
050084-4
050084-6
050084-7
610000 BRUSHLESS
620000 BRUSHLESS
630000
640000
IFSS 050084-1
IFSS 050084-4
IFSS 050084-6
IFSS 050084-6-1
IFSS 050084-7 BRUSHLESS
IFSS 050084-7-1 BRUSHLESS
IFSS 050084-7-2 BRUSHLESS
IFSS 050084-7-3 BRUSHLESS

В

NCES AS SHOWN 1 .03 .010	P	55			UCTS INC. SERVICES GROUP COMPANY
.5° ALL SHARP .01 IENSIONS IN		SER INSTALL			
UNLESS WISE STATED	DRAWN BY: BRP	DATE: 05/25/95	REV.: I	SCALE: N/A	SHEET: 1 OF 4
	APPLICATION: AS350				DWG. NO.: 7-2-AS350
1	2		T:		1



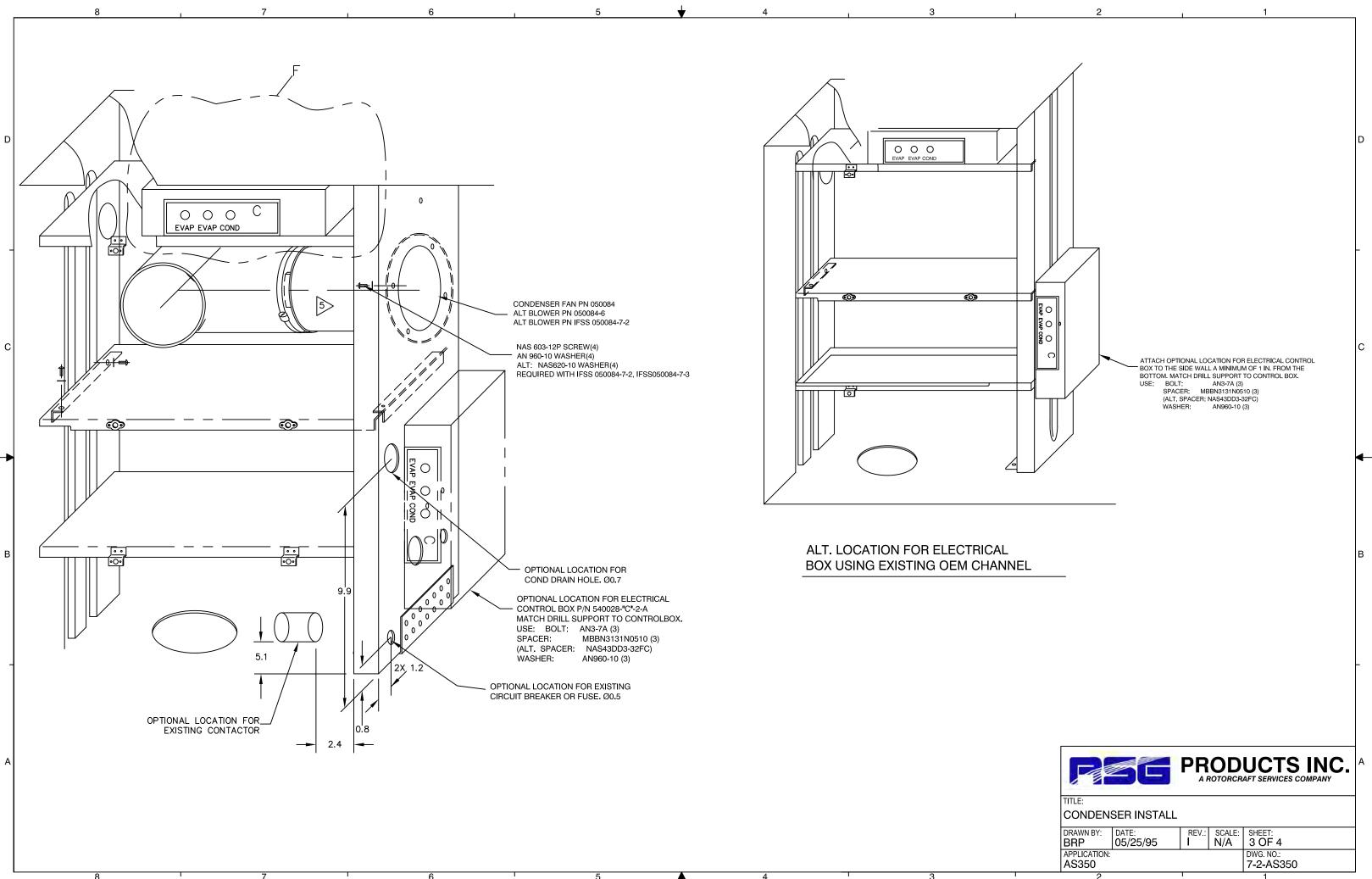
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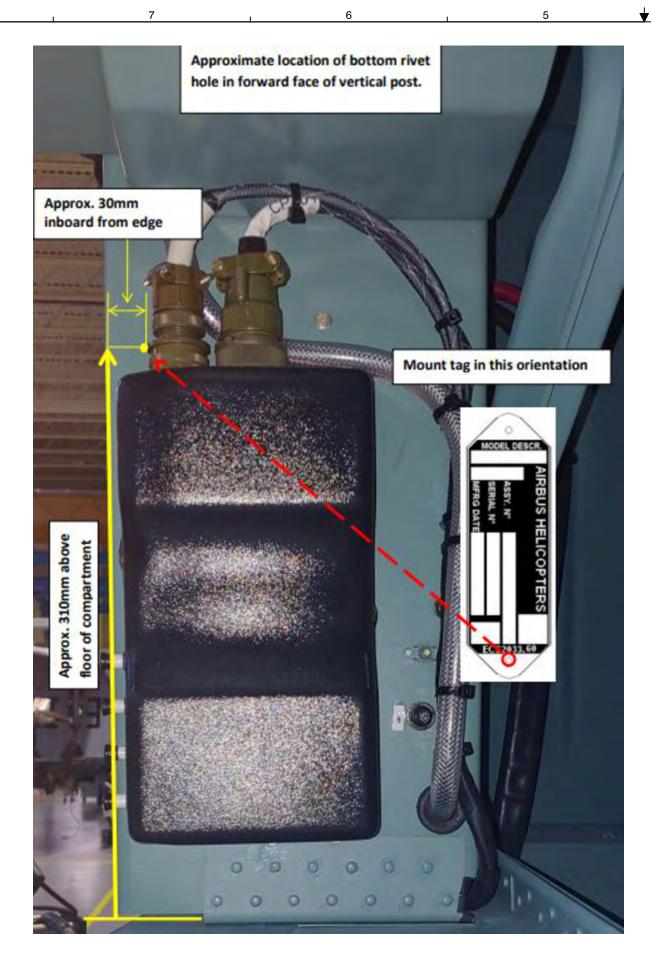
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3-5A D WASHER ITO COIL BOLT				_
O WASHER				
SER MOUNTING N 260002 AY BE REVERSI AFT, IF REQUIF	ED 180°			с
IOLES)				
1-1(2 HOLES)	Ø.250 —	~ 2)	X #40	
	1S21059L3 NUTPLATE		SK FOR RIVET USED X CCR264SS3-3 RIVET ALT RIVET: MS20426AD3-3)	4-
N: 510007 DLE IN 1059-L3 ENSER 07.	<u>DETAIL</u> TYPICAL NUTPLA NOT TO	TE INSTALL	ATION	В
NDENSER CHA	NNFL ASSY			_
007 70 AD4-AR RIVET				
L) ANNEL	PSG	PROD A ROTORCR	UCTS INC	• A
	TITLE: CONDENSER INSTALL			1
	DRAWN BY: DATE: BRP 05/25/95 APPLICATION: AS350	REV.: SCALE:	2 OF 4 DWG. NO.: 7-2-AS350	
· ·	2	I	1	



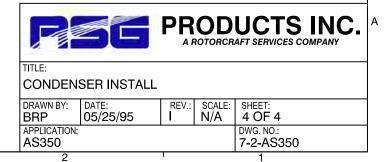


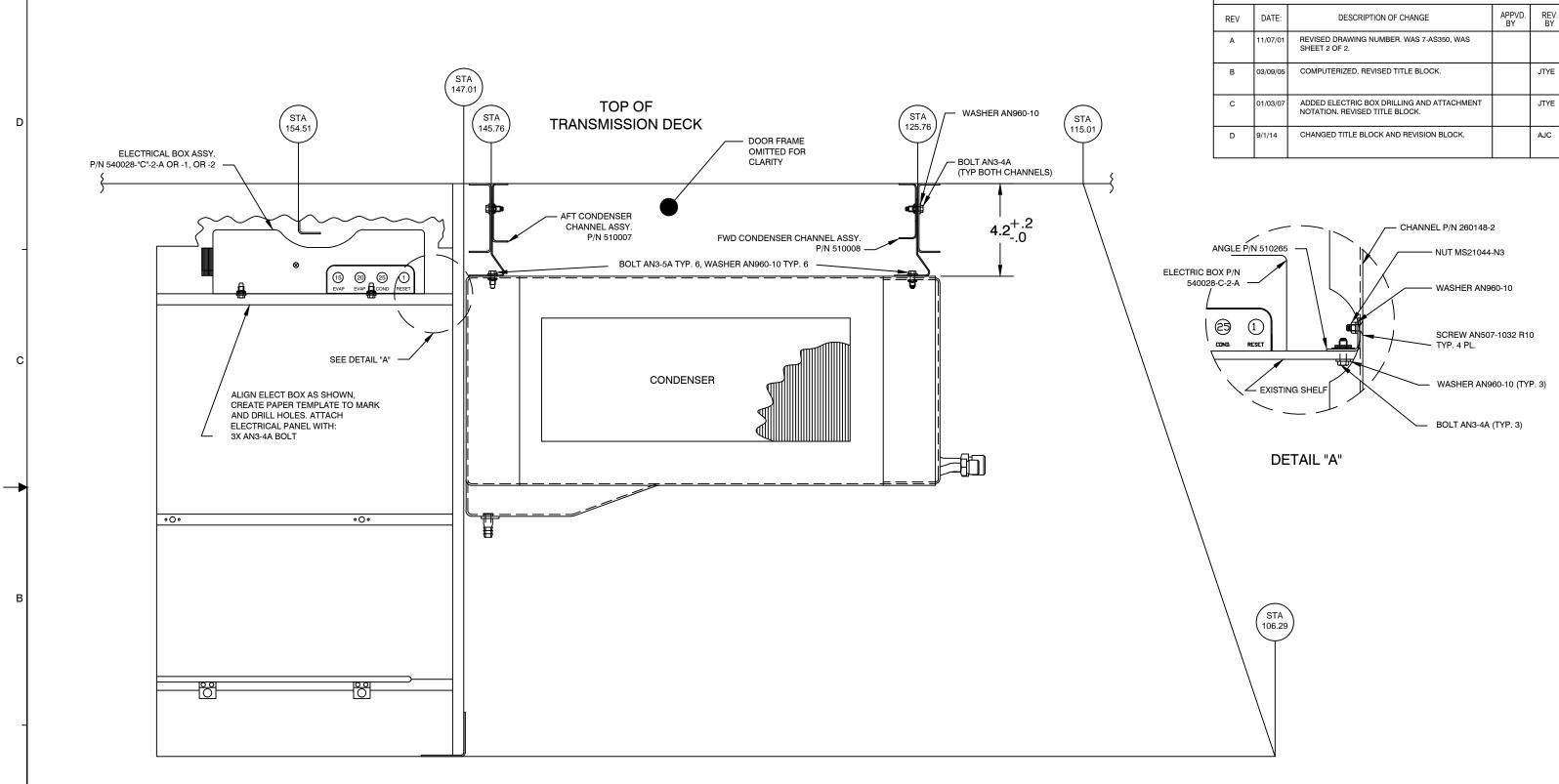
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REMOVE DATA TAG ECS 2033.60 FROM TC VERTICAL POST IN RH BAGGAGE COMPARTMENT. INSTALL TAG ON FORWARD FACE OF RSG P/N 260148-3. MAINTAIN ORIGINAL ORIENTATION WHEN MOUNTING. TAG TO BE MOUNTED USING TWO (2) MS20470AD4-5 RIVETS.





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	PROPRIETARY NOTICE	NEXT ASSY.	TOLERANC EXCEPT AS
	TO ALL PERSONS RECEIVING THIS DOCUMENT THIS DOCUMENT AND INFORMATION OR TECHNICAL DATA AND DESIGNS CONTAINED HEREIN ARE PROPRIETARY DATA AND EXCLUSIVE PROPERTY OF RSG PRODUCTS INC. AND IS DELIVERED ON THE EXPRESS CONDITION THAT NEITHER THIS DOCUMENT NOR THE INFORMATION CONTAINED HEREIN SHALL BE DISCLOSED TO OTHERS, REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE MANUFACTURE OR FABRICATION OF PARTS FOR ANYONE OTHER THAN RSG PRODUCTS INC.		.X: ±.1 .XX: ±.03 .XXX: ±.01 X.X°: ±.5° BREAK AL EDGES .01 ALL DIMEN INCHES U OTHERWIS
	THAT NO RIGHT IS GRANTED TO DISCLOSE OR SO USE ANY INFORMATION CONTAINED IN SAD DOCUMENT. THIS RESTRICTION DOES NOT LIMIT THE RIGHT TO USE INFORMATION OBTAINED FROM ANOTHER SOURCE.		DATE:
1	4	3	

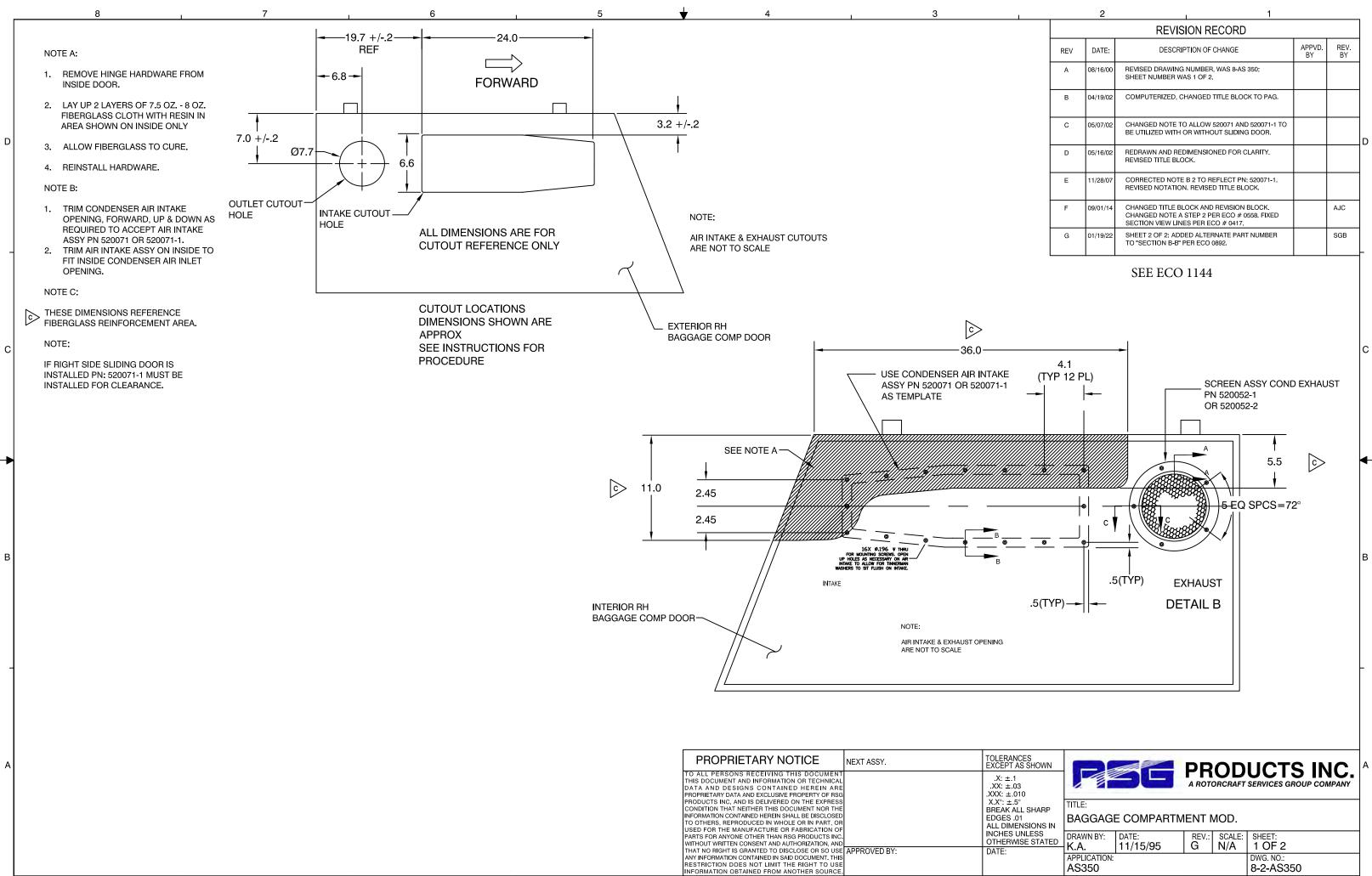
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REVISION RECORD					
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
A	11/07/01	REVISED DRAWING NUMBER. WAS 7-AS350, WAS SHEET 2 OF 2.			
В	03/09/05	COMPUTERIZED, REVISED TITLE BLOCK.		JTYE	
С	01/03/07	ADDED ELECTRIC BOX DRILLING AND ATTACHMENT NOTATION. REVISED TITLE BLOCK.		JTYE	
D	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK.		AJC	

ANCES T AS SHOWN 1 03 010		56			UCTS INC. SERVICES GROUP COMPANY
E.5° ALL SHARP 5.01 MENSIONS IN 5 UNLESS WISE STATED		SER INSTALL			
	DRAWN BY: K.A.	DATE: 05/25/95	REV.: D	SCALE: N/A	SHEET: 1 OF 1
	APPLICATION: AS350				DWG. NO.: 7-11-AS350
I	2		I		1



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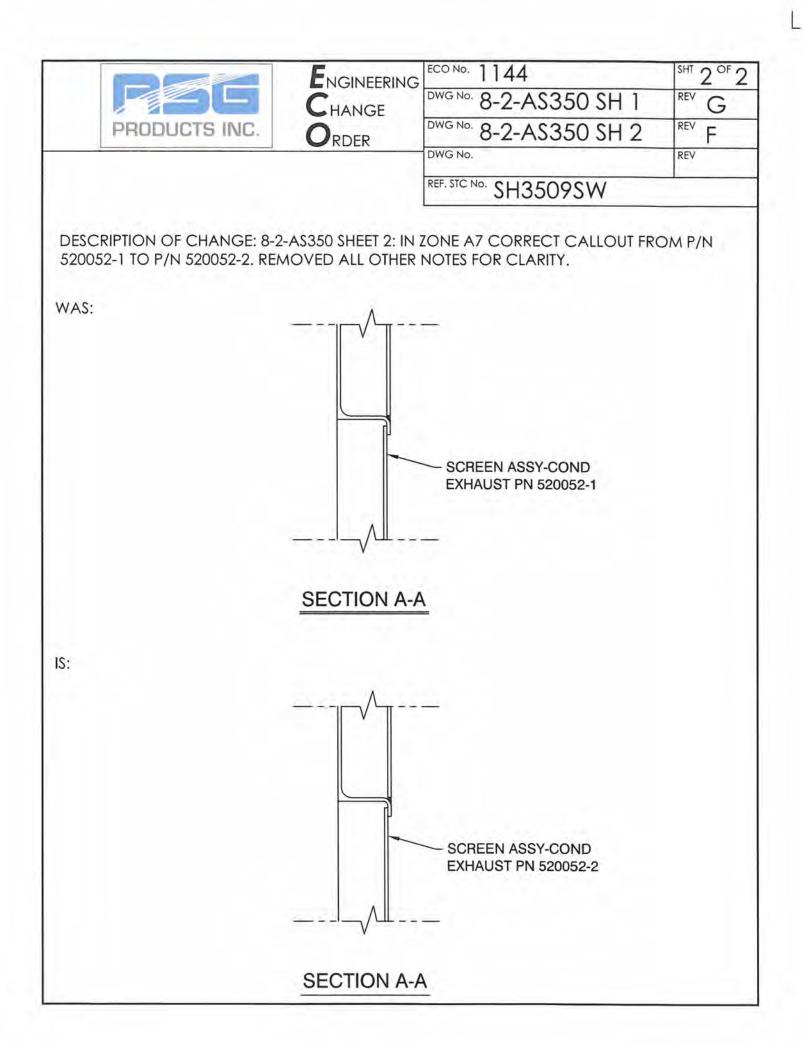
EVIS	ION	RECOR	20

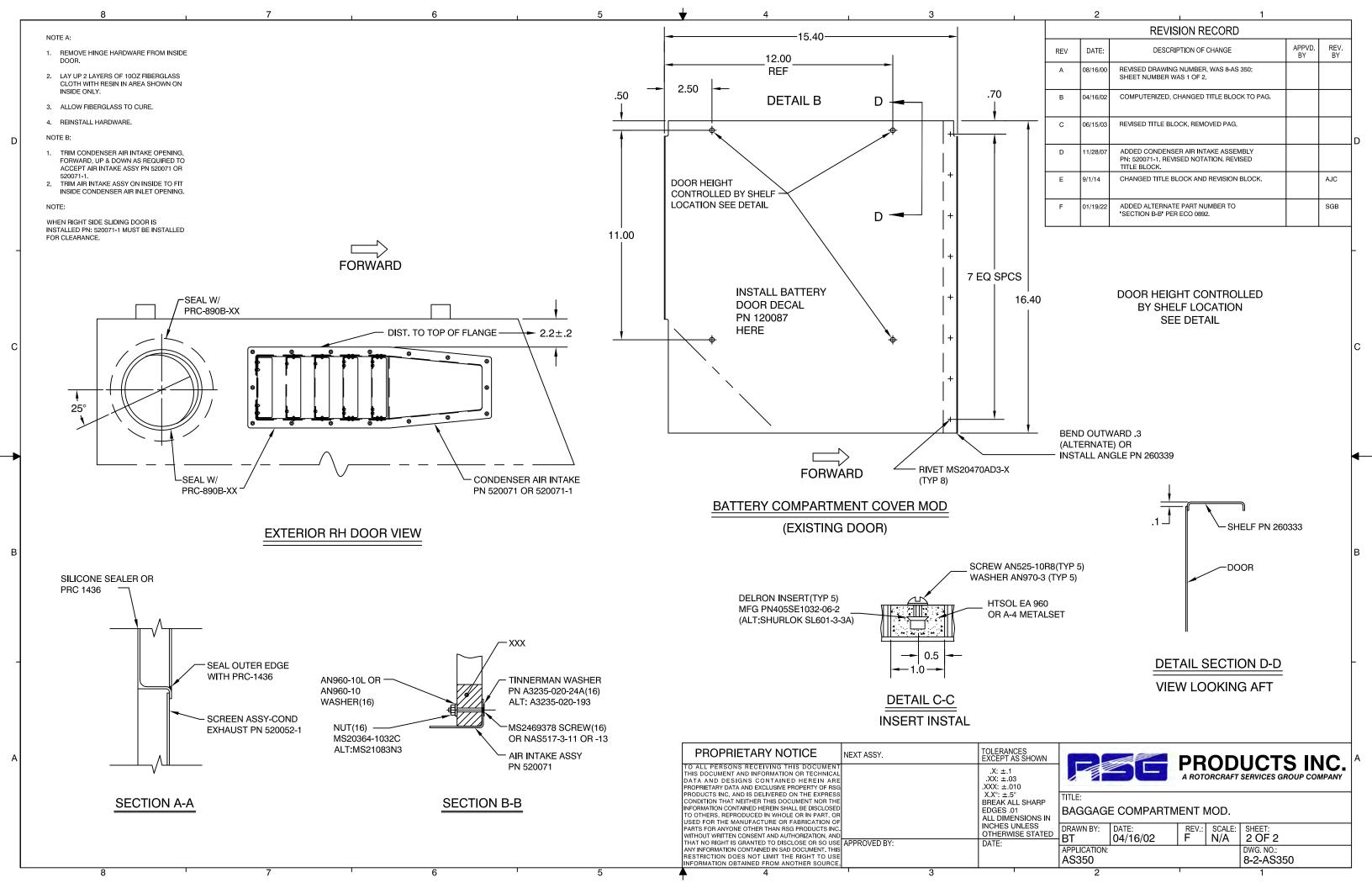
	REVISION RECORD					
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY		
A	08/16/00	REVISED DRAWING NUMBER, WAS 8-AS 350; SHEET NUMBER WAS 1 OF 2.				
В	04/19/02	COMPUTERIZED, CHANGED TITLE BLOCK TO PAG.				
с	05/07/02	CHANGED NOTE TO ALLOW 520071 AND 520071-1 TO BE UTILIZED WITH OR WITHOUT SLIDING DOOR.				
D	05/16/02	REDRAWN AND REDIMENSIONED FOR CLARITY. REVISED TITLE BLOCK.				
E	11/28/07	CORRECTED NOTE B 2 TO REFLECT PN: 520071-1. REVISED NOTATION. REVISED TITLE BLOCK.				
F	09/01/14	CHANGED TITLE BLOCK AND REVISION BLOCK. CHANGED NOTE A STEP 2 PER ECO # 0558. FIXED SECTION VIEW LINES PER ECO # 0417.		AJC		
G	01/19/22	SHEET 2 OF 2: ADDED ALTERNATE PART NUMBER TO "SECTION B-B" PER ECO 0892.		SGB		

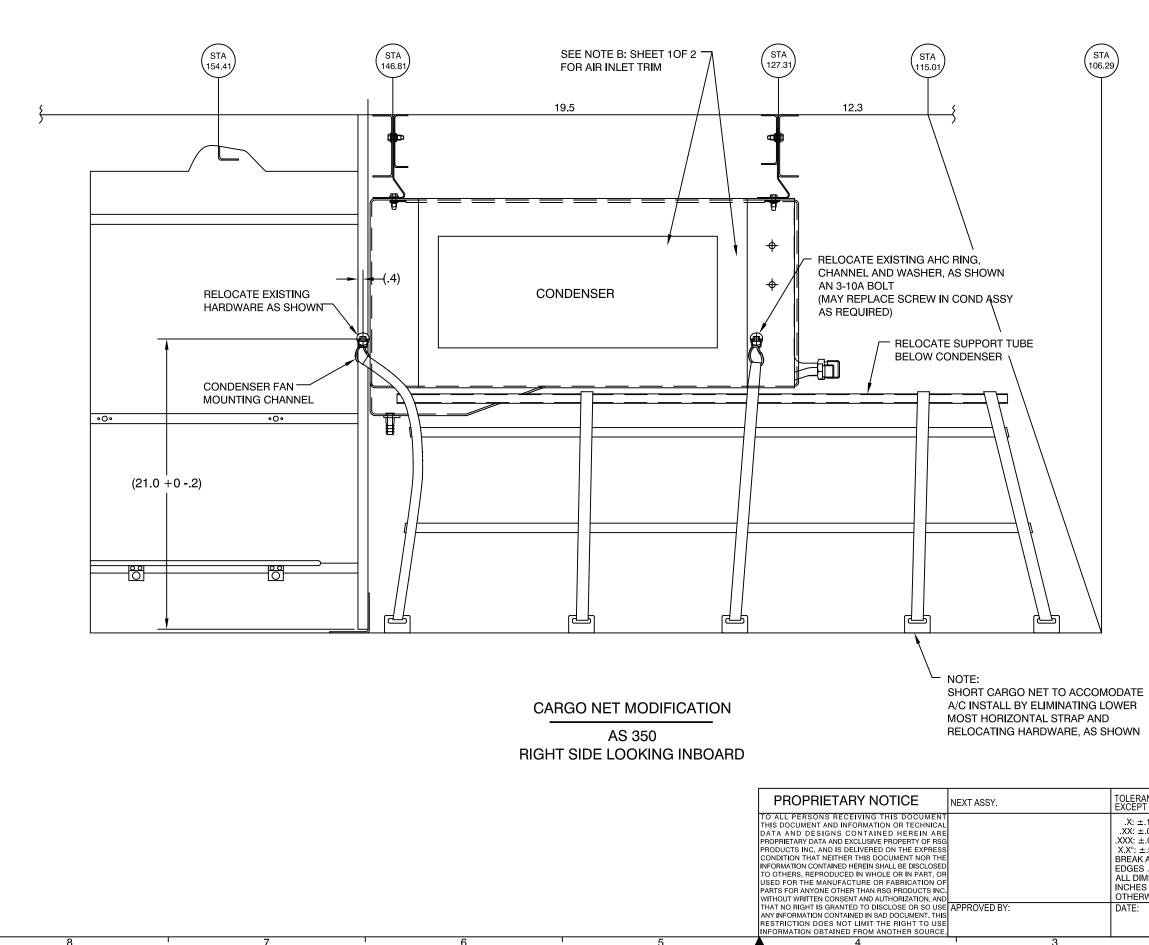
ANCES T AS SHOWN :.03 :.030 :.010 :.5° : ALL SHARP 3.01 MENSIONS IN	PRODUCTS INC. A ROTORCRAFT SERVICES GROUP COMPANY				
	TITLE: BAGGAGI	E COMPARTM	ENT N	NOD.	
S UNLESS RWISE STATED	DRAWN BY: K.A.	DATE: 11/15/95	^{REV.:} G	SCALE: N/A	SHEET: 1 OF 2
	APPLICATION: AS350				DWG. NO.: 8-2-AS350
1	2		I		1

		ENGINEERING	ECO No. 1144		SHT 1 OF 2
		CHANGE	DWG NO. 8-2-AS3	350	REV G
	PRODUCTS INC.	ORDER	DWG NO. 8-2-AS3		REV F
CHANGEC	CLASS:	KDEK	DWG No.		REV
	CHG. PARTS NOT AFFECTED ON ANGEABLE PARTS		REF. STC No. SH3509	sw	
	N-WORK STOCK DISPOSITION: CHG. PARTS NOT AFFECTED RE-' EXISTING STOCK	WORK EXISTING STOCK IER <u>BREAK IN AT NEXT</u> BUILD	EFFECTIVITY:		UNITS SPECIFIED ALL UNITS
	RIPTION OF CHANGE: 8- OVED ALL OTHER NOTES			CALLOUT P/N	520052-1.
WAS:		SCREEN PN 5200 OR 5200			
IS:		SCREEI PN 5200	N ASSY COND EXHAUST 052-2		
	(
REMAR	KS: MINOR CHANGE.			EERING REVIEW BOA	
REMOV	ED OBSOLETE PART NUM	ABER.	SIGNATURE	STAMP MRB04	DATE 8/2/2022
THIS EC	O CANCELS 1099.		An The	QA22	8/2/2022
			TRAIM	P016	- della sa
			The first	1010	8/3/2022
			INCODE	DRATION STATUS	8/3/2002

RSG Products Form 33.21 Rev. A 9/19/2011







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REVISION RECORD					
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
A	03/27/91	WAS 22.4 ± .2 IS 21.0 +02 CHANGED ALL STA'S. TITLE BLOCK WAS CAS, IS IFS.			
В	06/16/01	REVISED DRAWING NUMBER. WAS 8-AS 350; SHEET NUMBER WAS 2 OF 2.			
С	04/17/02	COMPUTERIZED, REVISED TITLE BLOCK.			D
D	09/09/09	REVISED TITLE BLOCK.			
E	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK.		AJC	
F	01/19/22	MADE D-RING DIMENSION REFERENCE PER ECO 0907.		SGB	

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FORWARD

ANCES T AS SHOWN 1 03 010 E.5° ALL SHARP 301 MENSIONS IN S UNLESS WISE STATED	P	55		-	UCTS INC. SERVICES GROUP COMPANY
	TITLE: BAGGAGI	E COMPARTM		NOD	
	DRAWN BY: BRP	DATE: 05/30/85	REV.: F	SCALE: 1/8	SHEET: 1 OF 1
	APPLICATION: AS350				DWG.NO.: 8-11-AS350
1	2		I		1

Step 7

Installation of Forward Evaporator

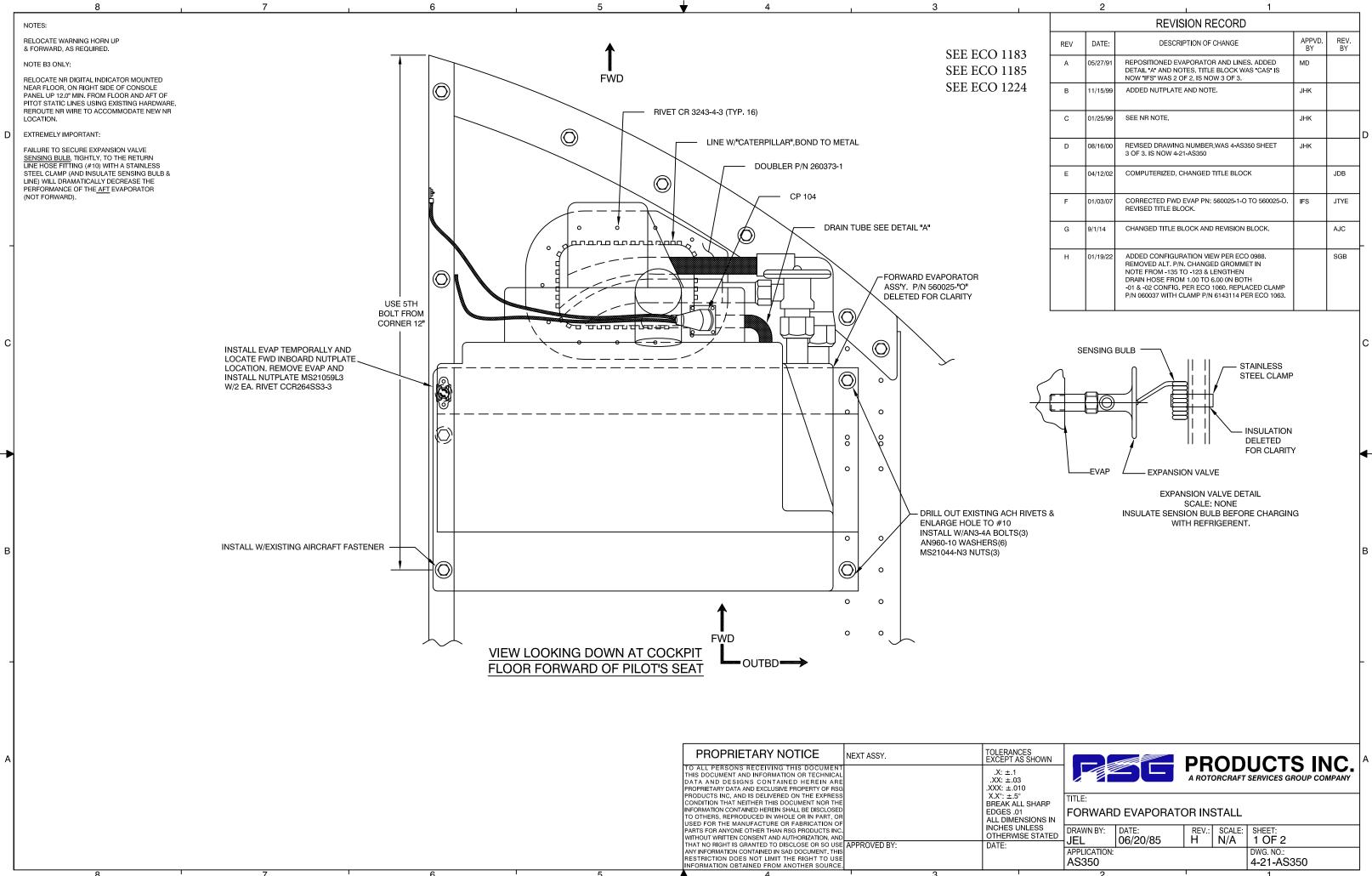
RSG Products Inc. INSTALLATION OF FORWARD EVAPORATOR – AS350 Air Conditioning

STEP	PROCEDURE	MECH	INSP
7.1	Relocate NR digital indicator. Higher 12" min., and aft of pitot static lines, using assisting hardware. See note on drawing 4-21-AS350.		
7.2	Relocate warning horn up and forward as required.		
7.3	Position forward evaporator assembly, P/N 560025-O, as shown in drawing 4-21-AS350. Mark rivets to be drilled out and existing bolts that will be used to mount evaporator. Also mark location on inboard forward mount hole on floor as shown in note on drawing 4-21-AS350.		
7.4	Remove and drill out rivets and marked hole. Install nut plate on evaporator.		
7.5	Position doublers P/N 260373 and P/N 260373-1 as shown in drawing 4-21-AS350, drill and install as shown. Cut out center. Line hole with Caterpillar (if needed), bond to edge of metal.		
7.6	Do not install evaporator until Freon lines are connected.		
7.7	Install drain line from the evaporator out through the cabin floor. The existing hole normally found in the aircraft skin (right forward side) can be utilized. Cutting of the aircraft skin will not usually be required. "IF" no vacant hole is found, or more direct routing is required to allow for appropriate drainage, locate and drill a hole according to the detail "A" on drawing 4-21-AS350. Install grommet. Secure drain line and cut off at a negative angle.		
7.8	When connecting Freon lines, make sure you install sensing bulb on #10 line. Wrap cork tape around fittings. See drawing 4-21 AS350 "Expansion Valve Detail". After all lines are attached install Fwd Evaporator with hardware per drawing 4-21-AS350.		

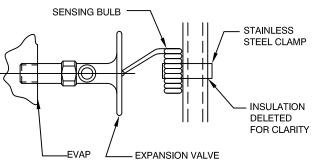
RSG Products Inc. INSTALLATION OF FORWARD EVAPORATOR – AS350 Air Conditioning

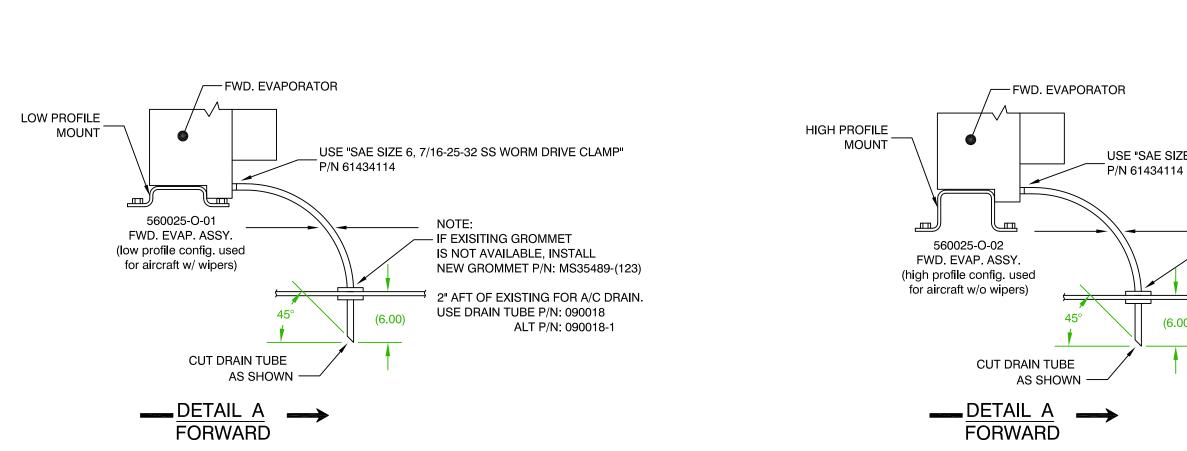
Air Distribution

STEP	PROCEDURE	MECH	INSP
	AIR DISTRIBUTION:		
	Drawings 5-26-AS350, 5-10-AS350 and 5-21-AS350		
7.9	For config01: Locate the air outlets on the left and right underside of panel support bar as shown in drawing 5-26-AS350. For config02: Locate the air outlets on the left and right upper side of panel as shown in drawing 5-26-AS350.		
7.10	For config01: Install 2 each Air Outlet Assembly PN: 510259-3 per drawing 5-26-AS350 View A-A, sheet 1 of 3.		
7.10	For config02: Install 2 each Air Outlet Assembly PN's: 520156HP-01 and 520157HP-01 per drawing 5-26-AS350 sheet 2 of 3.		
	After installation of air outlet assemblies, attach 2 ½" flex hoses from the assemblies to the evaporator. The hose to the right hand air outlet is very straight forward.		
7.11	The installation of the left side flexible air hose can vary according to the avionics package installed. In some aircraft, it is quite simple to route the hose aft of the radio stack through existing holes in the vertical sheet metal aircraft parts. In other aircraft, due to the type of radios installed, it will be necessary to cut a round hole in the vertical aircraft sheet metal components and route the flex hose through this hole after lining the edges with Caterpillar for protection against chafing of the hose.		



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			REVISION RECORD		
.83	REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY
85 85	A	05/27/91	REPOSITIONED EVAPORATOR AND LINES. ADDED DETAIL "A" AND NOTES. TITLE BLOCK WAS "CAS" IS NOW "IFS" WAS 2 OF 2, IS NOW 3 OF 3.	MD	
24	В	11/15/99	ADDED NUTPLATE AND NOTE.	JHK	
	С	01/25/99	SEE NR NOTE.	ЈНК	
	D	08/16/00	REVISED DRAWING NUMBER,WAS 4-AS350 SHEET 3 OF 3. IS NOW 4-21-AS350	ЈНК	
	E	04/12/02	COMPUTERIZED, CHANGED TITLE BLOCK		JDB
	F	01/03/07	CORRECTED FWD EVAP PN: 560025-1-O TO 560025-O. REVISED TITLE BLOCK.	IFS	JTYE
	G	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK.		AJC
	н	01/19/22	ADDED CONFIGURATION VIEW PER ECO 0988. REMOVED ALT. P/N. CHANGED GROMMET IN NOTE FROM -135 TO -123 & LENGTHEN DRAIN HOSE FROM 1.00 TO 6.00 0N BOTH -01 & -02 CONFIG. PER ECO 1060. REPLACED CLAMP P/N 060037 WITH CLAMP P/N 6143114 PER ECO 1063.		SGB





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USE "SAE SIZE 6, 7/16-25-32 SS WORM DRIVE CLAMP"



NOTE: IF EXISITING GROMMET IS NOT AVAILABLE, INSTALL NEW GROMMET P/N: MS35489-(123) חו

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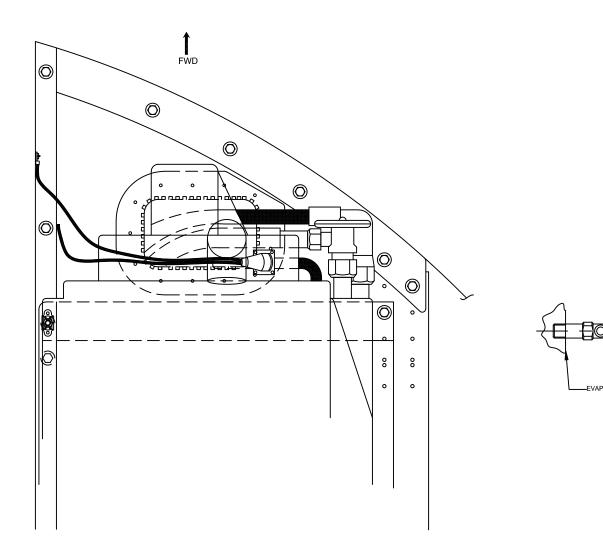
2" AFT OF EXISTING FOR A/C DRAIN. USE DRAIN TUBE P/N: 090018 ALT P/N: 090018-1

PRODUCTS INC. A ROTORCRAFT SERVICES COMPANY					
TITLE: FORWARI	D EVAPORAT(DR IN	STALL		
DRAWN BY: JEL	DATE: 06/20/85	REV.: H	SCALE: N/A	SHEET: 2 OF 2	
APPLICATION: DWG. NO.: AS350 4-21-AS350					
2		1		1	

			ECO No. 1183		SHT 1 OF 2
		CHANGE	DWG NO. 4-21-AS3	350	^{REV} H
PRODU	CTS INC.	ORDER	DWG No.		REV
CHANGE CLASS:		RDER	DWG No.		REV
RECORD CHG. PARTS NOT AFFECTED NON-INTERCHANGEABLE PARTS INTERCHANGEABLE PARTS OTHER			REF. STC NO. SH3509S	W	
			EFFECTIVITY:		
	RECORD CHG. PARTS NOT AFFECTED RE-WORK EXISTING STOCK SCRAP EXISTING STOCK OTHER BREAK IN AT NEXT BUIL				NITS SPECIFIED
NOTES.		EXPANSION VALVE V	WITH CORK TAPE	h Cork Tap	?Ε" ΤΟ
REMARKS: MINOR			ENGINEEF SIGNATURE	RING REVIEW BOAR	DATE
ADDED FN TO NO	JIE2.		Add	MRB04	10/7/2022
			of Im	DA22	10/7/2022
			RAM	P016	10/10/2022
			INCORPOR	ATION STATUS	
5					IG

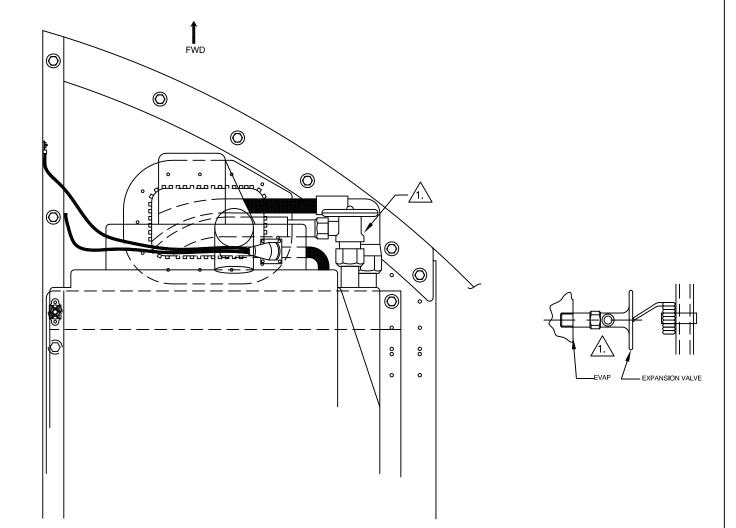








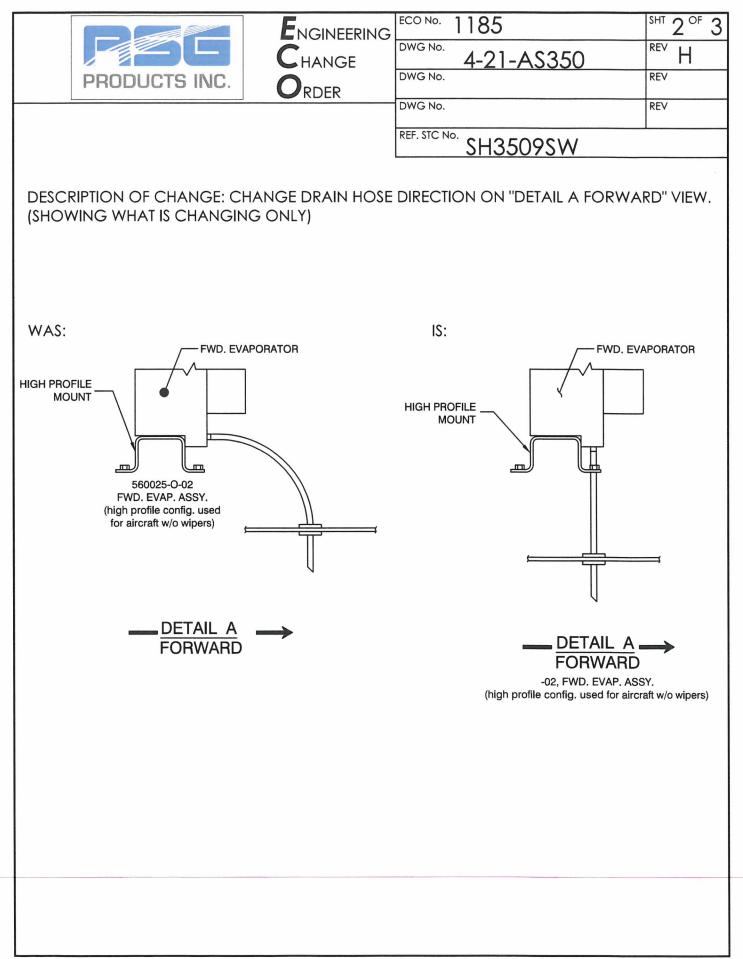
- EXPANSION VALVE



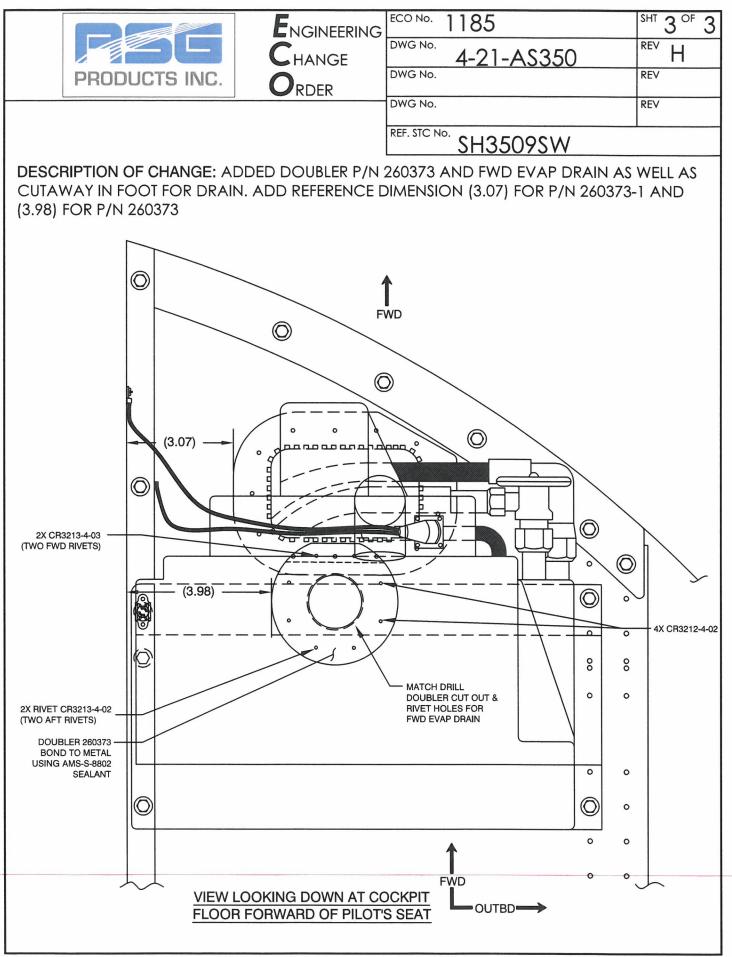
ering	ECO NO. 1183	SHT 2 OF 2
E	^{DWG No.} 4-21-AS350	^{rev} H
	DWG No.	REV
	DWG No.	REV
	REF. STC NO. SH3509SW	

	E	ECO NO. 1185		SHT 1 OF 3
	ENGINEERING	DWG No.		REVII
	CHANGE	4-21-AS3	350	п
PRODUCTS INC.		DWG No.		REV
CHANGE CLASS:	KDEK	DWG No.		REV
	ON-INTERCHANGEABLE PARTS			
	DTHER	REF. STC NO. SH3509S	W	
EXISTING/IN-WORK STOCK DISPOSITION:		EFFECTIVITY:		
				NITS SPECIFIED
	THER BREAK IN AT NEXT BUILD			
DESCRIPTION OF CHANGE: (SHOWING WHAT IS CHANG		E DIRECTION ON "DET/	AIL A FORWA	ARD" VIEW.
WAS:		IS:		
FWD. E	VAPORATOR		FWD.	EVAPORATOR
		LOW PROFILE		
			F	
560025-O-01 FWD. EVAP. ASSY.				
(low profile config. used for aircraft w/ wipers)	\mathbb{N}			
)			
	l	E	<u></u>	i
	N			
			Ų	
DETAIL A				
FORWARD			DETAIL A	
I ONWARE			FORWARD	
			-01, FWD. EVAP. A	
		(low profile	config. used for ail	rcraft w/ wipers)
REMARKS: MINOR CHANGE.		ENGINEE SIGNATURE	RING REVIEW BOAI	RD DATE
THIS ECO CANCELS ECO 1100	6 & 1153.	() Stat	MRB04	10/20/2022
		An A	0422	10/20/2022
		TRAVIA	POIG	Infailan 21
		1 A Martin	1.010	- Jayory
			ATION STATUS	
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RSG Products Form 33.21 Rev. A 9/19/2011

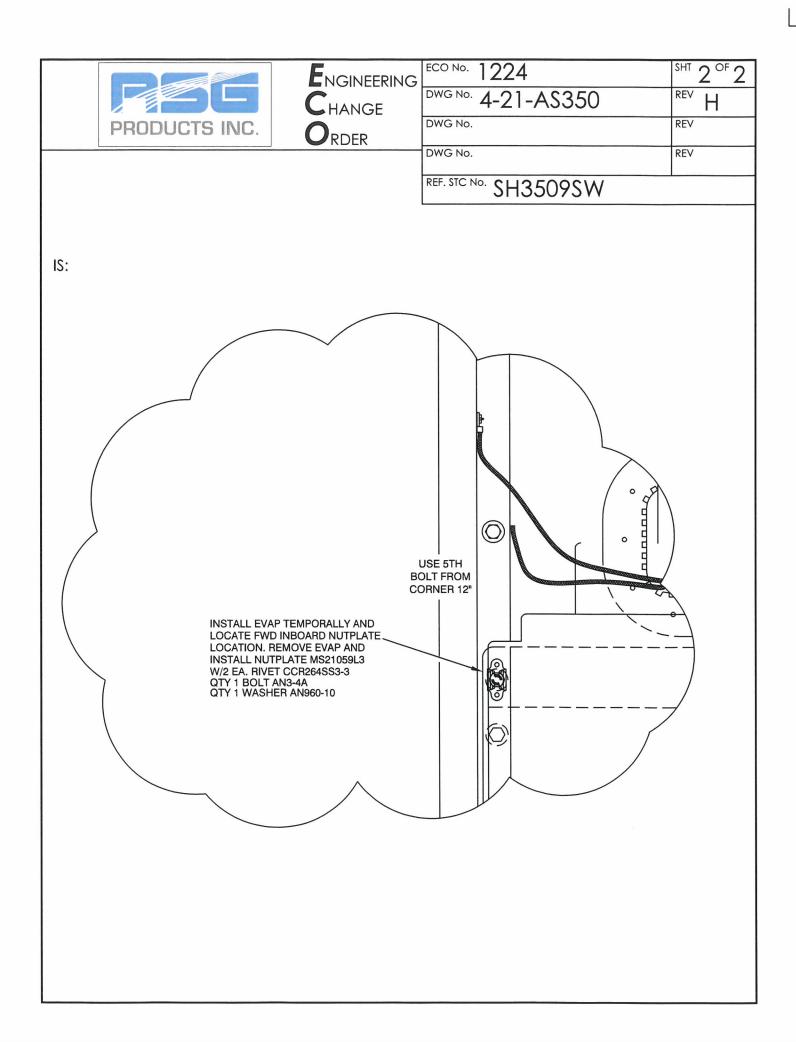


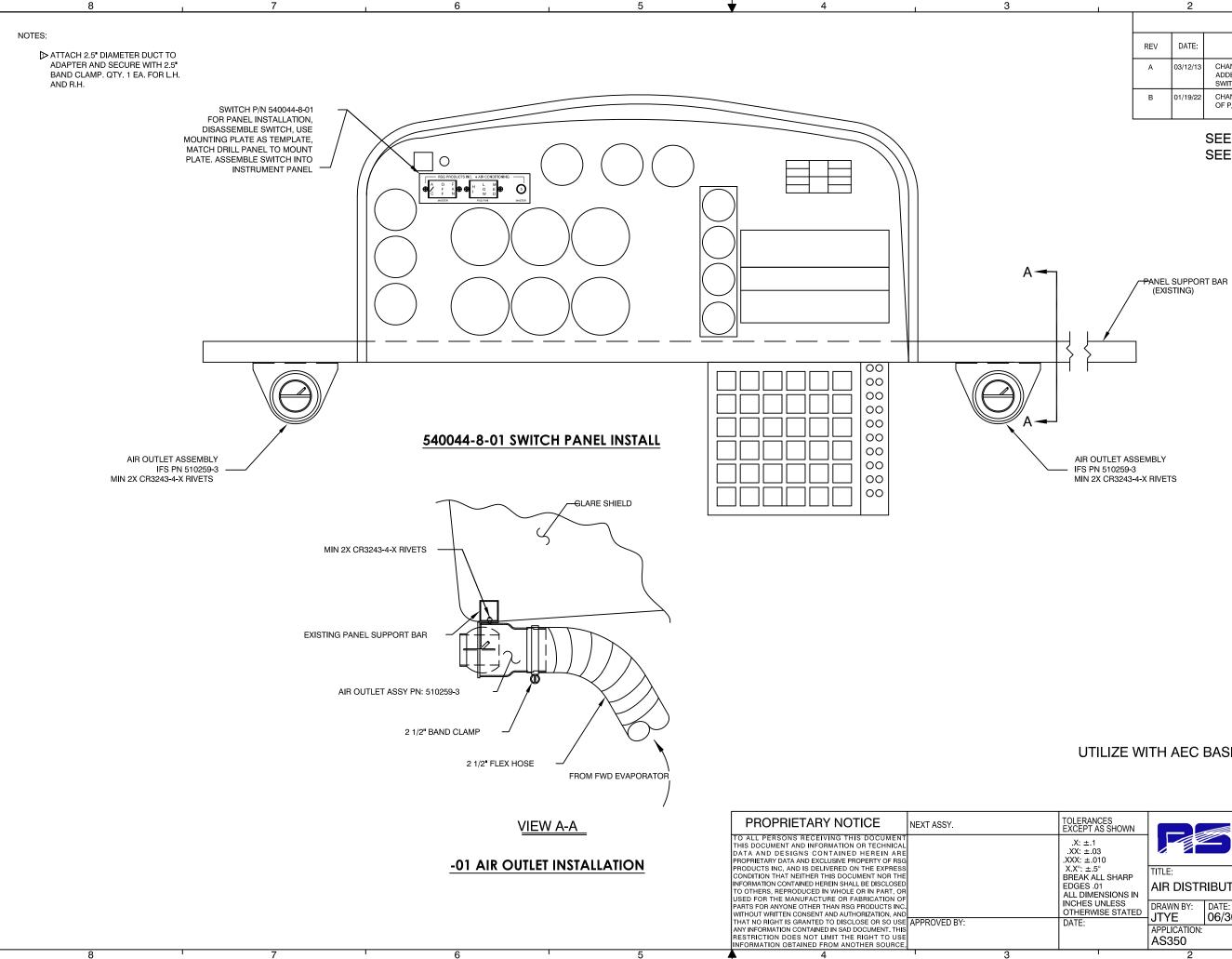
RSG Products Form 33.21 Rev. A 9/19/2011



			ECO No. 1224	SHT 1 OF 2
		CHANGE	DWG No. 4-21-AS3	50 ^{rev} H
	PRODUCTS INC.		DWG No.	REV
CHANGE			DWG No.	REV
	D CHG. PARTS NOT AFFECTED	ON-INTERCHANGEABLE PARTS	REF. STC NO. SH3509S	W
	N-WORK STOCK DISPOSITION:		EFFECTIVITY:	
	D CHG. PARTS NOT AFFECTED RE	e-work existing stock ^{ITHER} <u>break in at next</u> build	ALL UNITS THIS CUSTOMER	
DESC ZN C	CRIPTION OF CHANGE: , 7.	add bolt and wash	HER QTY 1 EACH TO IN	STALLATION NOTE IN
WAS	:			
		\sim		
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				° se
				。
	, ,		E 5TH T FROM	
		COR	NER 12"	
	LOCATE FV	/AP TEMPORALLY AND VD INBOARD NUTPLATE		`
	INSTALL NU	JTPLATE MS21059L3 /ET CCR264SS3-3		
			Ø	
	\mathbf{X}			
		\wedge		/
	RKS: MINOR CHANGE.		ENGINEER	RING REVIEW BOARD
ADDE[D HARDWARE TO INSTAI	LLATION NOTE.		MRB04 2/10/2023
			Parks in	QA22 2/10/2023 P016 2/10/2023
			scryp	//
				ATION STATUS OUTSTANDING

RSG Products Form 33.21 Rev. A 9/19/2011





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	REVISION RECORD				
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
A	03/12/13	CHANGE TITLE BLOCK AND REVISION BLOCK. ADDED -02 AIR OUTLET INSTALL AND 540044-8-02 SWITCH PANEL INSTALL PER ECO # 0642 & 0716		AJC	
В	01/19/22	CHANGED VIEW TO ADD ALTERNATE LOCATION OF P/N: 540044-8-02 PER ECO 0957.		SGB	

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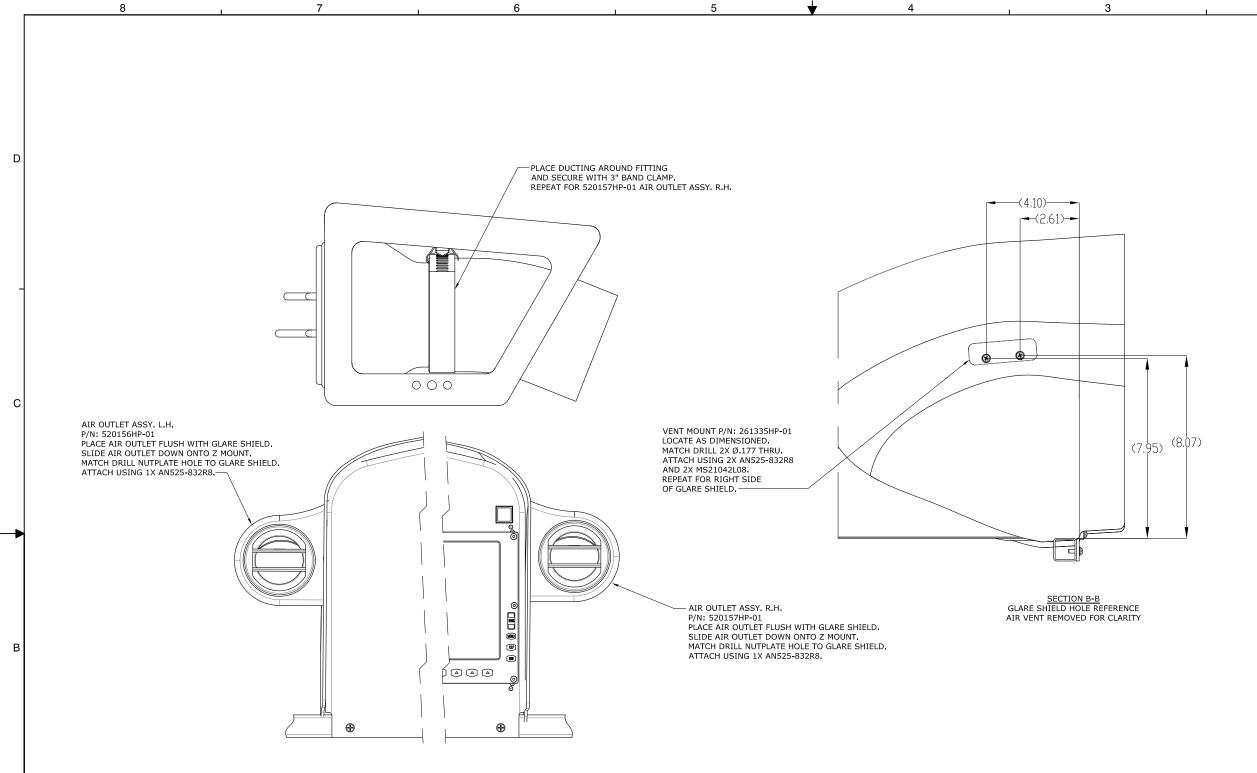
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SEE ECO 1181 SEE ECO 1196

UTILIZE WITH AEC BASIC CONFIGURATION

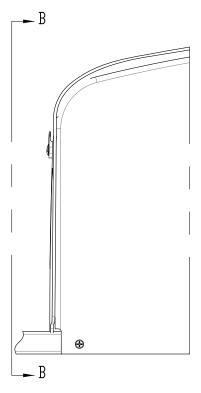
ANCES T AS SHOWN =.1 =.03 =.010		50			UCTS INC. SERVICES GROUP COMPANY
±.5° (ALL SHARP S .01 MENSIONS IN	TITLE: AIR DISTF	RIBUTION			
S UNLESS RWISE STATED	DRAWN BY: JTYE	DATE: 06/30/08	REV.: B	SCALE: N/A	SHEET: 1 OF 3
	APPLICATION: AS350				DWG. NO.: 5-26-AS350
	2		I		1

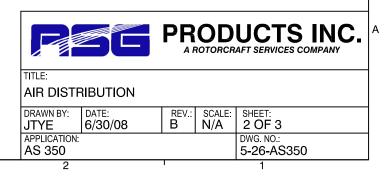


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-02 AIR OUTLET INSTALLATION, ALT. ASSY.

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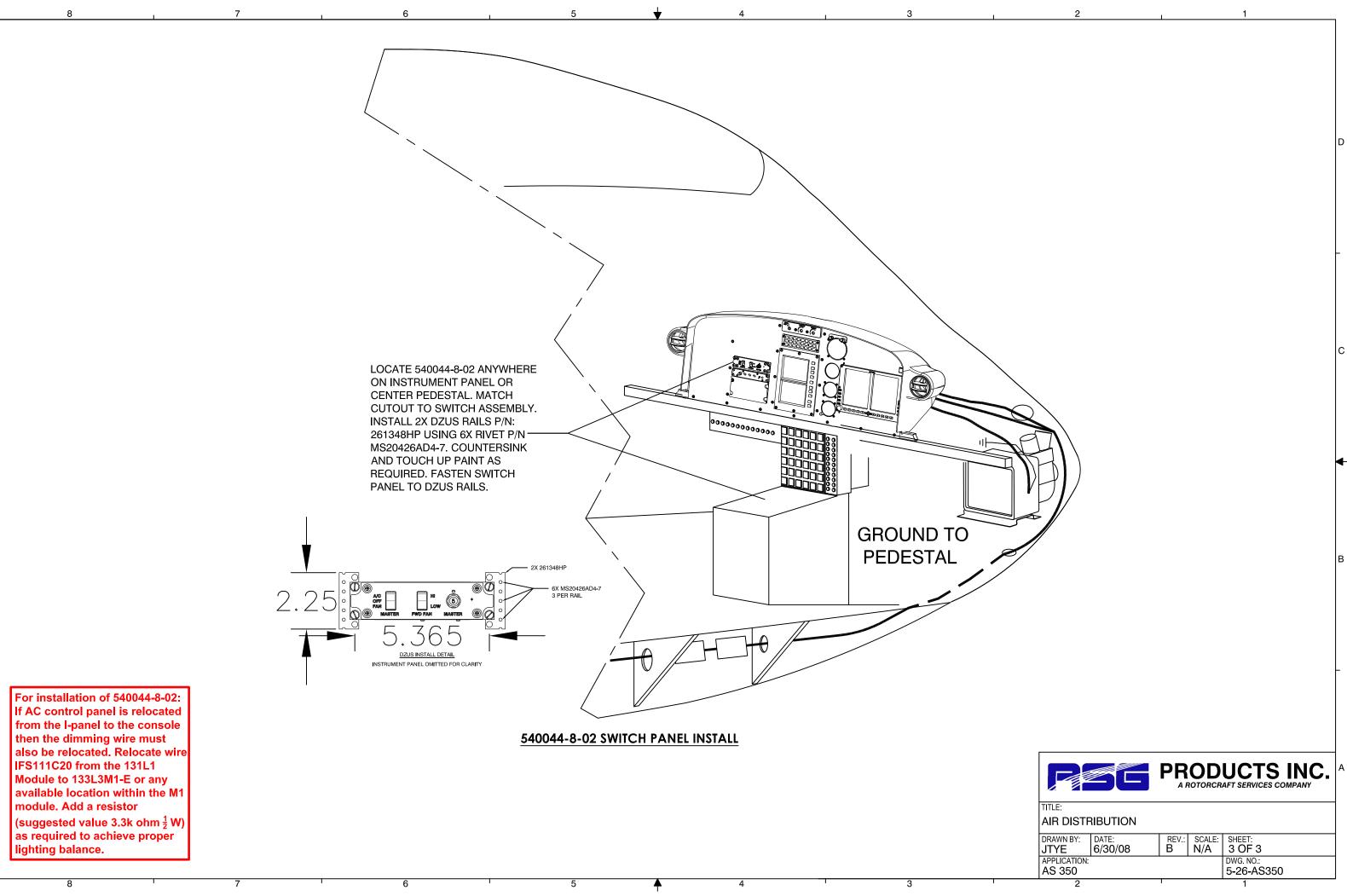


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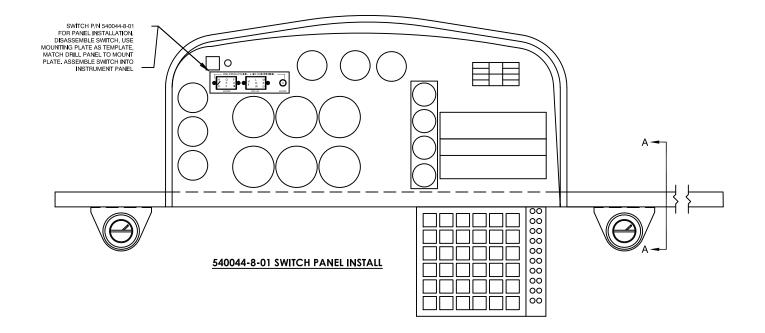
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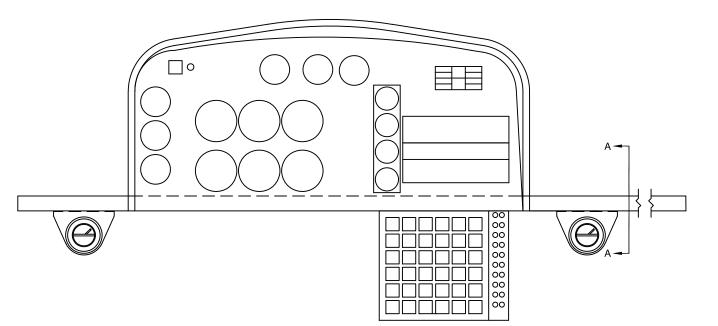
			ECO No. 1181	SHT 1 OF 2
		CHANGE	^{DWG No.} 5-26-AS3	350 ^{rev} B
	PRODUCTS INC.		DWG No.	REV
CHANGE	CLASS:		DWG No.	REV
	D CHG. PARTS NOT AFFECTED 🗌 N	ON-INTERCHANGEABLE PARTS	REF. STC NO. SH3509S	
EXISTING/	N-WORK STOCK DISPOSITION:		EFFECTIVITY:) V V
	D CHG. PARTS NOT AFFECTED RE EXISTING STOCK		ALL UNITS THIS CUSTOMER	
ALSC	CRIPTION OF CHANGE: I D REMOVE "UTILIZE WITH T CHANGED FOR CLAR	AEC BASIC CONFIGU		
	RKS: MINOR CHANGE.		ENGINEEF SIGNATURE	RING REVIEW BOARD
REMO	VE OBSOLETE DATA.		AAA	MRB04 10/7/2022
			My The	QA22 10/7/2022
			Stan	P016 10/10/2022
			INCORPOR	ATION STATUS



WAS:

IS:





UTILIZE WITH AEC BASIC CONFIGURATION

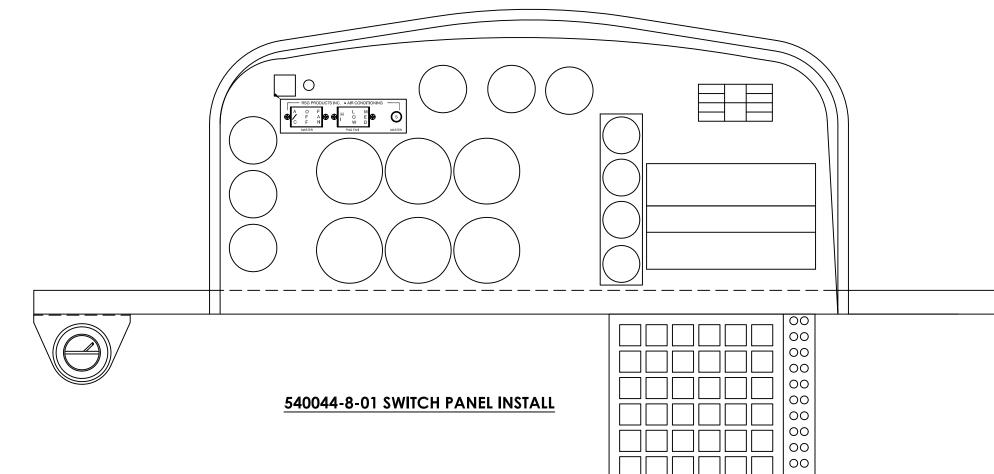
ERING	ECO NO. 1181	SHT 2 OF 2
Έ	DWG NO. 5-26-AS350	^{REV} B
	DWG No.	REV
	DWG No.	REV
	REF. STC NO. SH3509SW	

		ECO No. 1196	SHT 1 OF 2
	CHANGE	DWG No. 5-26-AS3	50 REV B
PRODUCTS INC.	ORDER	DWG No.	REV
CHANGE CLASS:		DWG No.	REV
RECORD CHG. PARTS NOT AFFECTED NTERCHANGEABLE PARTS	ION-INTERCHANGEABLE PARTS	REF. STC NO. SH3509S	SW
EXISTING/IN-WORK STOCK DISPOSITION:	E-WORK EXISTING STOCK DTHER <u>BREAK IN AT NEXT</u> BUILD	EFFECTIVITY:	
DESCRIPTION OF CHANGE: OUTLETS TO BE FLUSH WITH T			OCATION OF AIR
WAS:			
540044-8-	OI SWITCH PANEL INSTALL		
REMARKS: MINOR CHANGE.		ENGINEE SIGNATURE	RING REVIEW BOARD
UPDATED VIEW.			MRB04 1/26/2023
		Str.	P016 2/3/2023
			CUTSTANDING

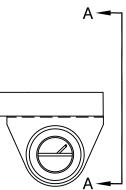
RSG Products Form 33.21 Rev. A 9/19/2011

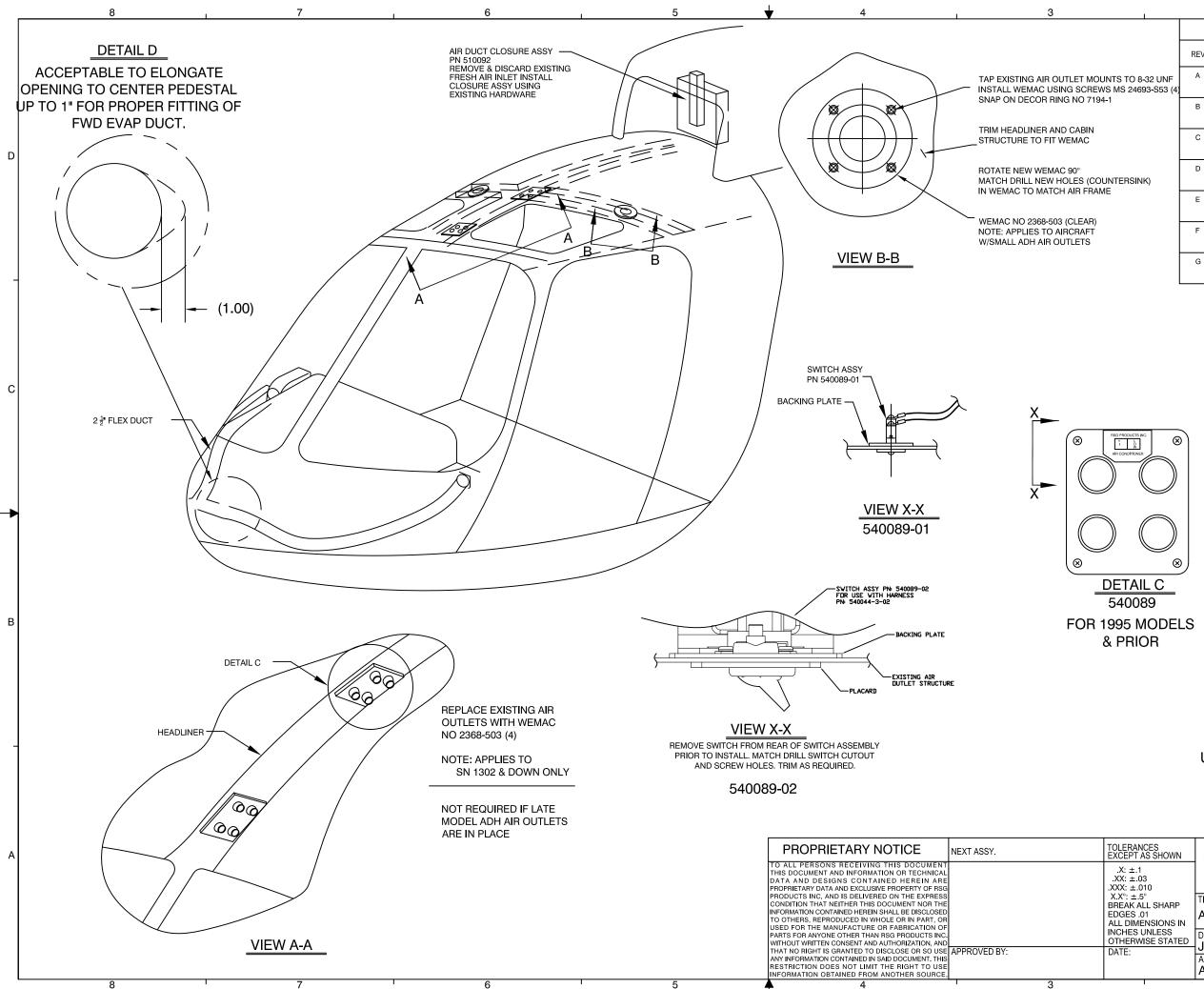






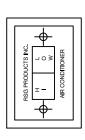
ering	ECO NO. 1196	SHT 2 OF 2
	DWG No. 5-26-AS350	^{rev} B
_	DWG No.	REV
	DWG No.	REV
	REF. STC NO. SH3509SW	





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	REVISION RECORD					
	REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
8-32 UNF 1693-S53 (4)	A	03/27/91	TITLE WAS CAS, IS NOW IFS.			
	В	11/15/95	ADDED DETAIL C.			
	С	08/16/00	WAS 5-AS350, IS NOW 5-10-AS350. RECONFIGURED AIR OUTLETS			
INK)	D	06/15/03	REVISED TITLE BLOCK, REMOVED PAG.			
Ī	E	09/09/09	REVISED TITLE BLOCK. ADDED ARROWS FOR VIEW X-X. CORRECTED DETAIL C.			
	F	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK, ADDED -02 VIEWS AND INSTRUCTIONS PER ECO # 0709.		AJC	
	G	01/19/22	ADDED NOTE TO TOP DETAIL VIEW C. REMOVED BOTTOM DETAIL C VIEW. MODIFY NOTE TO VIEW LOCATED IN ZN B1. CHANGED SCREW SIZE ON		SGB	
			NOTE IN VIEW B-B PER ECO'S 0817 & 0980.			1









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540089-02

LOCATE SWITCH ASSY AFT & LEFT OR RIGHT OF EXISTING AIR OUTLETS FOR 1995 MODELS & ON

UTILIZED WITH:

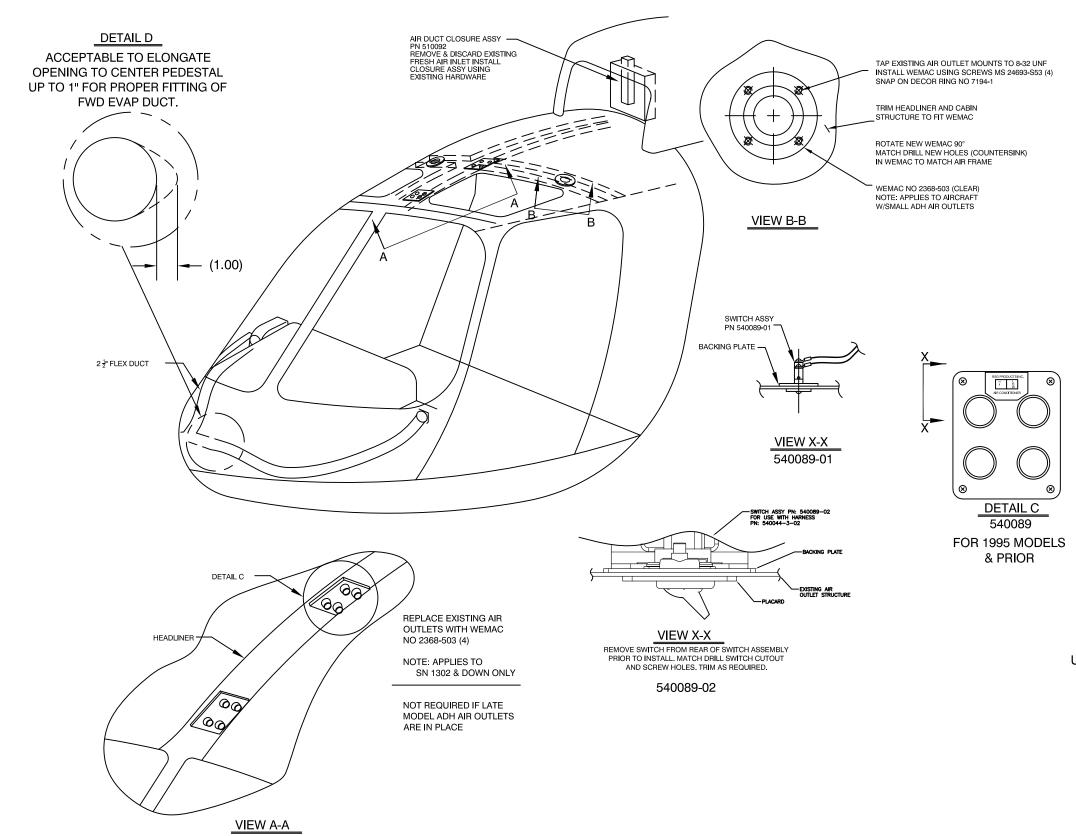
AEC BASIC

ANCES T AS SHOWN 1 03 010					UCTS INC. SERVICES GROUP COMPANY	•
= .5° ALL SHARP 3 .01 MENSIONS IN	TITLE: AIR CONDITIONING OVERVIEW					
S UNLESS	DRAWN BY: JM	DATE: 06/20/85	REV. G	SCALE: N/A	SHEET: 1 OF 1	
	APPLICATION: AS350				DWG. NO.: 5-10-AS350	
1	2		1		1	_

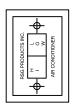
CHANGE CLASS: RECORD CHG. PARTS NOT AFFECTED NON-INTERCHANGEABLE PARTS INTERCHANGEABLE PARTS OTHER OTHER OTHER CHANGEABLE PARTS CHARGEABLE PARTS CHARGEABLEABLEABLE PARTS CHARGEABLEABLEABLEABLEABLEABLEABLEABLEABLEABL	DWG NO. DWG NO. DWG NO. REF. STC NO. SH3509SW EFFECTIVITY: ALL UNITS THIS CUSTOMER ALL UNITS MFG'D AFTER THIS DATE	
DESCRIPTION OF CHANGE: REMOVE OBSOLETE D SUPPORT. ONLY SHOWING WHAT CHANGED.	ATA AS REQUESTED FOR F	PRODUCTION LINE
REMARKS: MINOR CHANGE. REMOVING OBSOLETE DATA.		REVIEW BOARD STAMP DATE MRB04 10/7/2022 QA22 10/7/2022 QA22 10/7/2022 OIT6 /0/0/00000 N STATUS OUTSTANDING



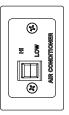
WAS:



ering	eco no. 1177	SHT 2 OF 3
	^{DWG No.} 5-10-AS350	^{rev} G
	DWG No.	REV
	DWG No.	REV
	REF. STC NO. SH3509SW	



540089-01



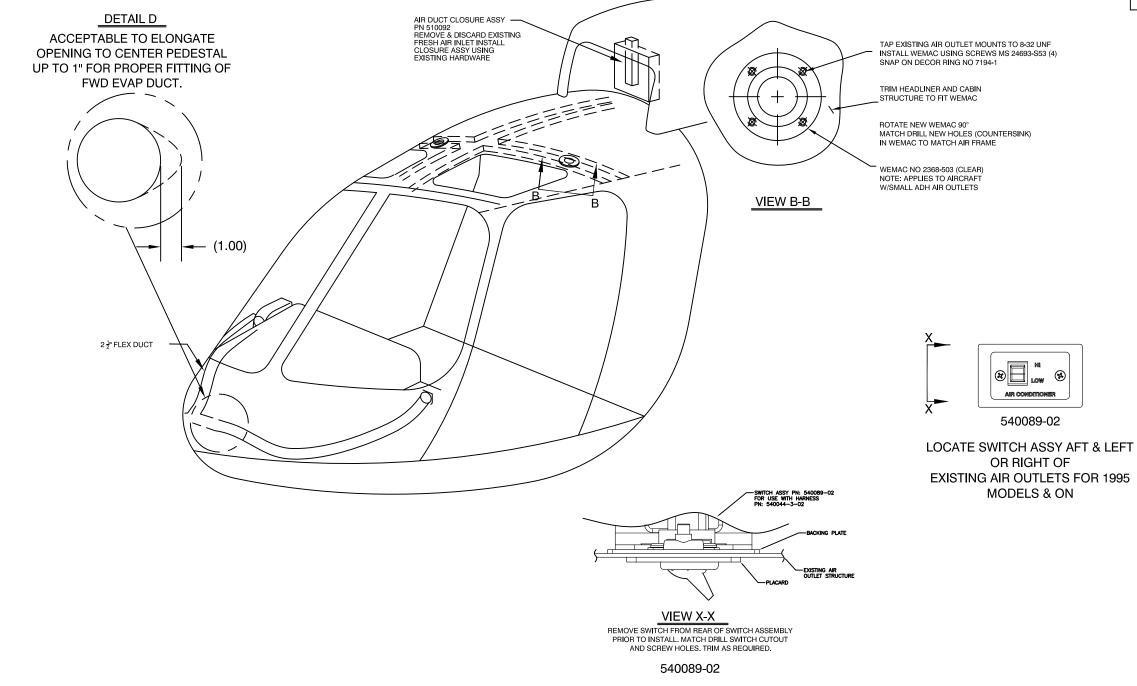
540089-02

LOCATE SWITCH ASSY AFT & LEFT OR RIGHT OF EXISTING AIR OUTLETS FOR 1995 MODELS & ON

UTILIZED WITH:

AEC BASIC





IS:

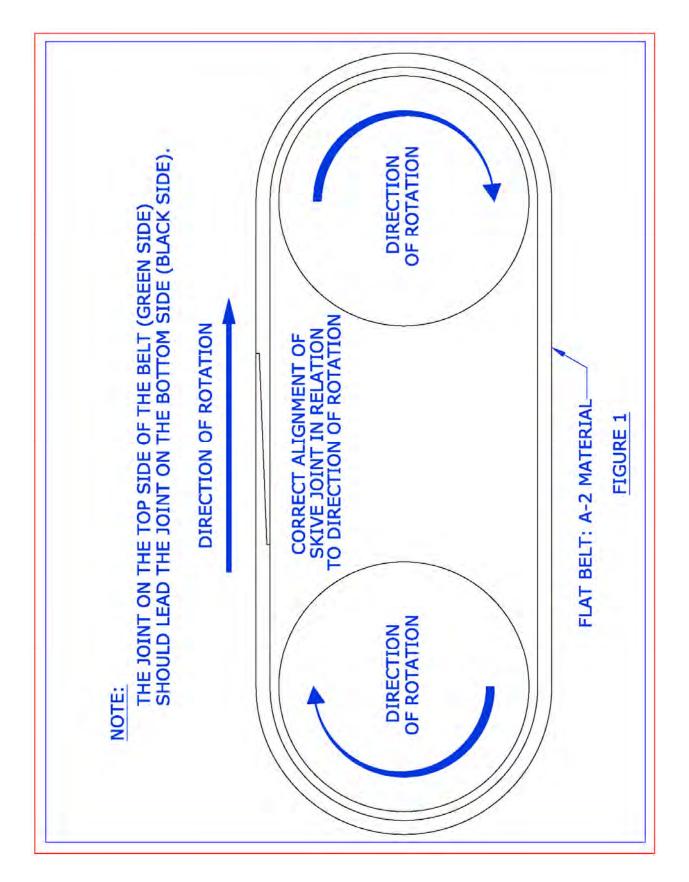
ERING	eco no. 1177	SHT 3 OF 3
	^{DWG No.} 5-10-AS350	^{rev} G
	DWG No.	REV
	DWG No.	REV
	REF. STC No. SH3509SW	

Step 8

Installation of Compressor

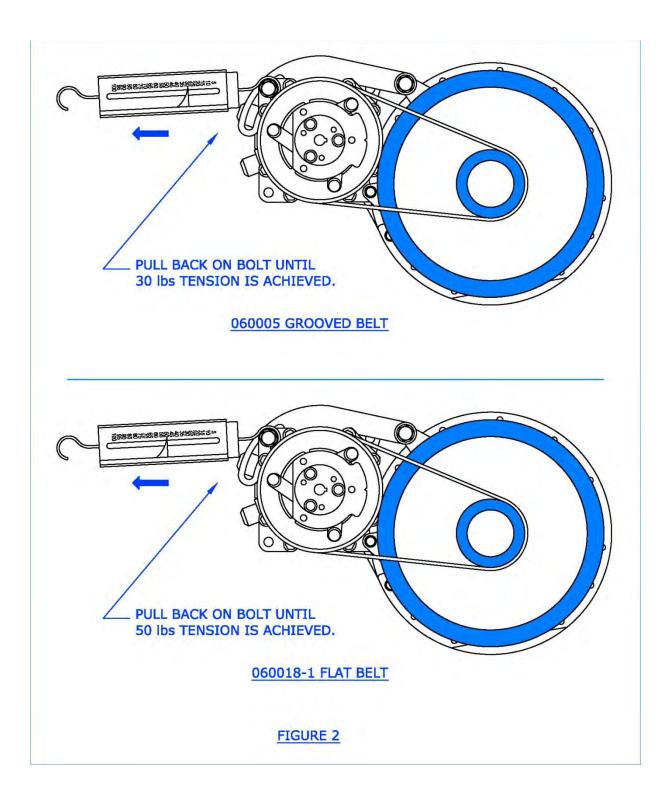
Installation of Compressor

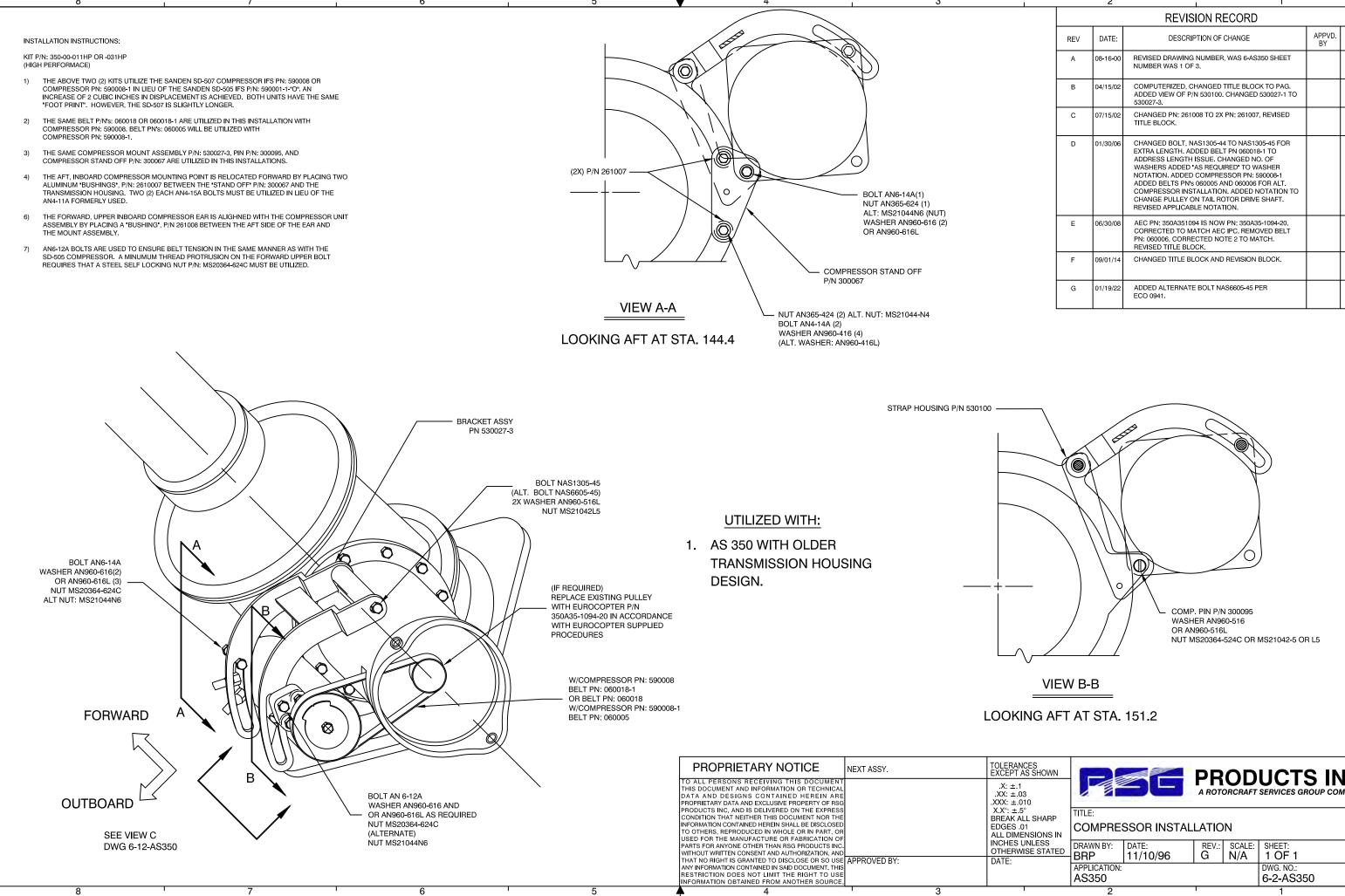
STEP	PROCEDURE	MECH	INSP
8.0	NOTE: MUST BE PERFORMED IN ACCORDANCE WITH CURRENT EUROCOPTER TECHNICAL DATA.		
8.1	Place a support on the transmission deck to support the engine drive while the shaft is disconnected for belt installation.		
8.2	Remove the cotter pins from the four pins holding the "Gimble Ring" at the Thomas coupling.		
8.3	Slide the "Gimble Ring" aft to gain access to the Thomas coupling.		
8.4	Remove the 6 bolts and Thomas coupling connecting the drive shaft and shift slightly aft.		
8.5	Install two (2) Compressor Drive belts		
8.6	Reassemble the Thomas coupling per AEC Specifications. Torque and Safety Coupling!! Torque Mark all bolts.		
	Secure 1 belt to the outside of the drive shaft cover for a spare and slip one through the housing and over the drive pulley.		
8.7	NOTE: THE CURRENT BELT P/N 060018-1 HAS A SPECIFIC DIRECTION OF ROTATION. (See figure 1, page 3)		
	NOTE: THE CURRENT BELT P/N 060005 HAS NO SPECIFIC DIRECTION OF ROTATION.		



Installation of Compressor

STEP	PROCEDURE	MECH	INSP
8.8	Install the "Gimble Ring" pins and cotter pins. Remove supports.		
8.9	Install Compressor Bracket in accordance with: 6-2-AS350, 6-12-AS350 and 6-21-AS350 or 6-3-AS350, 6-13-AS350 and 6-22-AS350.		
8.10	Install the Forward Compressor Bracket, Compressor Standoffs and Compressor per Drawings:		
8.10	6-2-AS350, 6-12-AS350 and 6-21-AS350 or 6-3-AS350, 6-13-AS350 and 6-22-AS350		
8.11	Install the compressor drive belt on the drive pulley and the compressor clutch pulley. Tighten bolts at the adjustment arm assuring the belt proper amount of tension. Tighten the lower forward mounting bolt.		
8.12	This tension may be performed by either pull scale. (See Belt Tension Recommendation)		
8.13	50/30 lbs pull tension at tension adjustment bolt should provide adequate belt tension. (See figure 2, page 5)		
	BELT TENSION RECOMMENDATIO	DN:	
	FLAT BELT IFS P/N 060018-1TENS	SION TO 50lb	S
	GROOVED BELT IFS P/N 060005TENS	SION TO 30lb	S





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		REVISION RECORD			
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
A	08-16-00	REVISED DRAWING NUMBER, WAS 6-AS350 SHEET NUMBER WAS 1 OF 3.			
В	04/15/02	COMPUTERIZED, CHANGED TITLE BLOCK TO PAG. ADDED VIEW OF P/N 530100. CHANGED 530027-1 TO 530027-3.			
С	07/15/02	CHANGED PN: 261008 TO 2X PN: 261007, REVISED TITLE BLOCK.]
D	01/30/06	CHANGED BOLT, NAS1305-44 TO NAS1305-45 FOR EXTRA LENGTH. ADDED BELT PN 060018-1 TO ADDRESS LENGTH ISSUE. CHANGED NO. OF WASHERS ADDED "AS REQUIRED" TO WASHER NOTATION. ADDED COMPRESSOR PN: 590008-1 ADDED BELTS PN'S 060005 AND 060006 FOR ALT. COMPRESSOR INSTALLATION. ADDED NOTATION TO CHANGE PULLEY ON TAIL ROTOR DRIVE SHAFT. REVISED APPLICABLE NOTATION.		JTYE	
E	06/30/08	AEC PN: 350A351094 IS NOW PN: 350A35-1094-20. CORRECTED TO MATCH AEC IPC. REMOVED BELT PN: 060006, CORRECTED NOTE 2 TO MATCH. REVISED TITLE BLOCK.		JTYE	
F	09/01/14	CHANGED TITLE BLOCK AND REVISION BLOCK.		AJC	
G	01/19/22	ADDED ALTERNATE BOLT NAS6605-45 PER ECO 0941.		SGB	

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ANCES IT AS SHOWN =.1 =.03 =.010	PRODUCTS INC. A ROTORCRAFT SERVICES GROUP COMPANY							
±.5° (ALL SHARP S .01 MENSIONS IN		SSOR INSTAL	LATION					
S UNLESS RWISE STATED	DRAWN BY: BRP	DATE: 11/10/96	^{REV.:}	SCALE: N/A	SHEET: 1 OF 1			
	APPLICATION: AS350				DWG. NO.: 6-2-AS350			
1	2				1	•		

NOTES:				REV	DATE:	DESCR	IPTION OF CHANGE	APPVD.	REV.
NOTES. 1. UTILIZED ON AS350 WITH LATEST TRANSMISSION HOUSING DESIGN		SE	E ECO 1180				IAS1305-44 TO NAS1305-45 FOR	BY	BY JTYE
			E ECO 1188	A	01/30/06	EXTRA LENGTH. C	HANGED BELT TO 060018-1TO		
2. ALTERNATE FOR ITEM 16 COMPRESSOR IS P/N 590008 WHICH CAN ONLY BE USED WITH ITEM 7 ALTERNATE BELT P/N 060018-1.		52				PN: 300363-2 AND	I ISSUE.ADDED COMPRESSOR SHIM SHIM PN: 261155 TO ISOMETRIC	1 1	
3. ENSURE PLANAR TOLERANCE BETWEEN THE TAIL ROTOR & COMPRESSOR						EDGE NOTE.ADDE	ASHER NOTES. REMOVED BEVELE D COMPRESSOR PN 590008-1.		
PULLEY CENTERLINE IS ± .100 IN. ALIGNMENT CAN BE ADJUSTED BY CHANGING THE WASHER STACKUP BETWEEN ITEM 11 & GEAR BOX							60005. REVISED NOTES TO MATCH.		
COUPLING CASE.				В	06/30/08		I: 350A351094 TO PN: 350A35-1094-2 C. REVISED TITLE BLOCK.	0	JTYE
4. REAM ITEM 10 BUSHING FOR PROPER FIT OF ITEM 12 PIN WITH RANGE					+				U
				С	10/03/12	INCORPORATED E	CO 0508.		WST
5. TENSION BELT TO F= 30 LBS. DEFLECTION AT CENTER OF THE BELT TO BE .10 IN. UNDER 5 LB LOAD.									
6. REPLACE EXISTING RING TERMINAL WITH ITEM 39 FOR USE WITH 1/4 \sim				D	09/01/14	CHANGED TITLE B	LOCK AND REVISION BLOCK. ADDEI RT NUMBERS, DESCRIPTION AND		AJC
HARDWARE ON BRACKET ASSEMBLY TO MOUNT GROUNDING STRAP ON ITEM 14. SEAL TERMINAL RING AND FASTENER WITH ITEM 38.	ر 					QUANTITIES TO BO	DM PER ECO # 0568.		
				E	01/19/22	INCORPORATED E	CO'S 0720, 0908, 0941 & 0982.		SGB
	~ // /								
		1 1 39	MS25036-150	RING TE	ERMINAL				
		A/R A/R 38	PR 1440 B 1/2	SEALAN	ΝT				
		1 1 37	NAS1149DO416H	WASHE	R				
		1 1 36	MS21042L4	NUT					
	$77 \setminus 1$	1 1 35	AN4-5A	BOLT		005.45			
	$(/ \setminus \setminus)$	1 34	NAS1305-45 NAS1149D0632H		LT. NAS6	605-45)			
	\checkmark	6 33 2 32	NAS1149D0632H NAS1149D0532H	WASHE WASHE					
	×	2 31	MS20364-624C		.n LT. MS21(044N6)			$\neg \neg$
		1 30	AN365-624		LT. MS210	,			
		4 29	MS21042L6	NUT					
		2 2 28	MS21042L5			364-524C)			
		2 2 27	MS21042L4		LT. AN365	5-424)			
		A/R 26	MS20995C32	SAFETY					
		2 A/R 25 1 3 24	AN960-616L AN960-516L			<u>N960-616)</u> N960-516)			
		4 4 23	AN960-416			N960-416L)			
		1 22	AN6-33A	BOLT	•				
		1 2 21	AN6-12	BOLT					
		2 20	AN6-13A	BOLT					
		1 19	AN6-12A	BOLT					
		1 18 2 2 17	AN5-34A AN4-14A	BOLT BOLT					
		1 1 16	590008-1	COMPR	RESSOR			12.85	LB
		1 1 15	530100-1		HOUSING	G			B
		1 14	530027-3		ET ASSEN				
		1 1 13	300363-2	· · · · · · · · · · · · · · · · · · ·	LT: 2611	55)			
		1 1 12	<u>300095</u> 300067-1			STAND OFF			
			261008	BUSHIN					
		2 2 9	261007	BUSHIN					
		1 8	2434K39	THREAI	DED ROD	END	McMASTER CARR		
		1 1 7	060005	BELT					
		2 6	04-130-21-105-01		RESSOR C				[
		2 5	04-130-21-104-01 04-130-21-102-01	COMP MOL	JT, DRILLI				
		1 3	04-130-21-102-01			NT BRACKET	· ·	0.52	LB
		2	-02	COMPRESS	SOR INST.	ALLATION			
		1	-01	COMPRESS					
		QTY QTY ITEM	PART NUMBER		ESCRIPTI	ON	VENDOR	WEIG	HT
	PROPRIETARY NOTICE	NEXT ASSY.	TOLERA	NCES AS SHOWN				C IN	
	TO ALL PERSONS RECEIVING THIS DOCUMENT THIS DOCUMENT AND INFORMATION OR TECHNICAL		.X: ±.	1			PRODUCT A ROTORCRAFT SERVICES G	JIN	
	DATA AND DESIGNS CONTAINED HEREIN ARE PROPRIETARY DATA AND EXCLUSIVE PROPERTY OF RSG		.XX: ±. .XXX: ±.	03 .010			A HUTURCHAFT SERVICES G	ROUP COM	PANY
	PRODUCTS INC. AND IS DELIVERED ON THE EXPRESS CONDITION THAT NEITHER THIS DOCUMENT NOR THE		X X°· +	.5° ALL SHABP					
	INFORMATION CONTAINED HEREIN SHALL BE DISCLOSED TO OTHERS, REPRODUCED IN WHOLE OR IN PART, OR		EDGES	01 CC	OMPRES	SOR INSTAL	LATION		
F	USED FOR THE MANUFACTURE OR FABRICATION OF PARTS FOR ANYONE OTHER THAN RSG PRODUCTS INC.		INCHES	UNLESS DR	AWN BY:	DATE:	REV.: SCALE: SHEET:		
	WITHOUT WRITTEN CONSENT AND AUTHORIZATION, AND THAT NO RIGHT IS GRANTED TO DISCLOSE OR SO USE		DATE:	S.T	HORNTON 1	10/03/2012	E N/A 1 OF 4		
/ F	ANY INFORMATION CONTAINED IN SAID DOCUMENT. THIS RESTRICTION DOES NOT LIMIT THE RIGHT TO USE				PLICATION:		DWG. NO.: 6-3-AS3	50	
	INFORMATION OBTAINED FROM ANOTHER SOURCE. 4	1	3		2		1 <u>1</u>		
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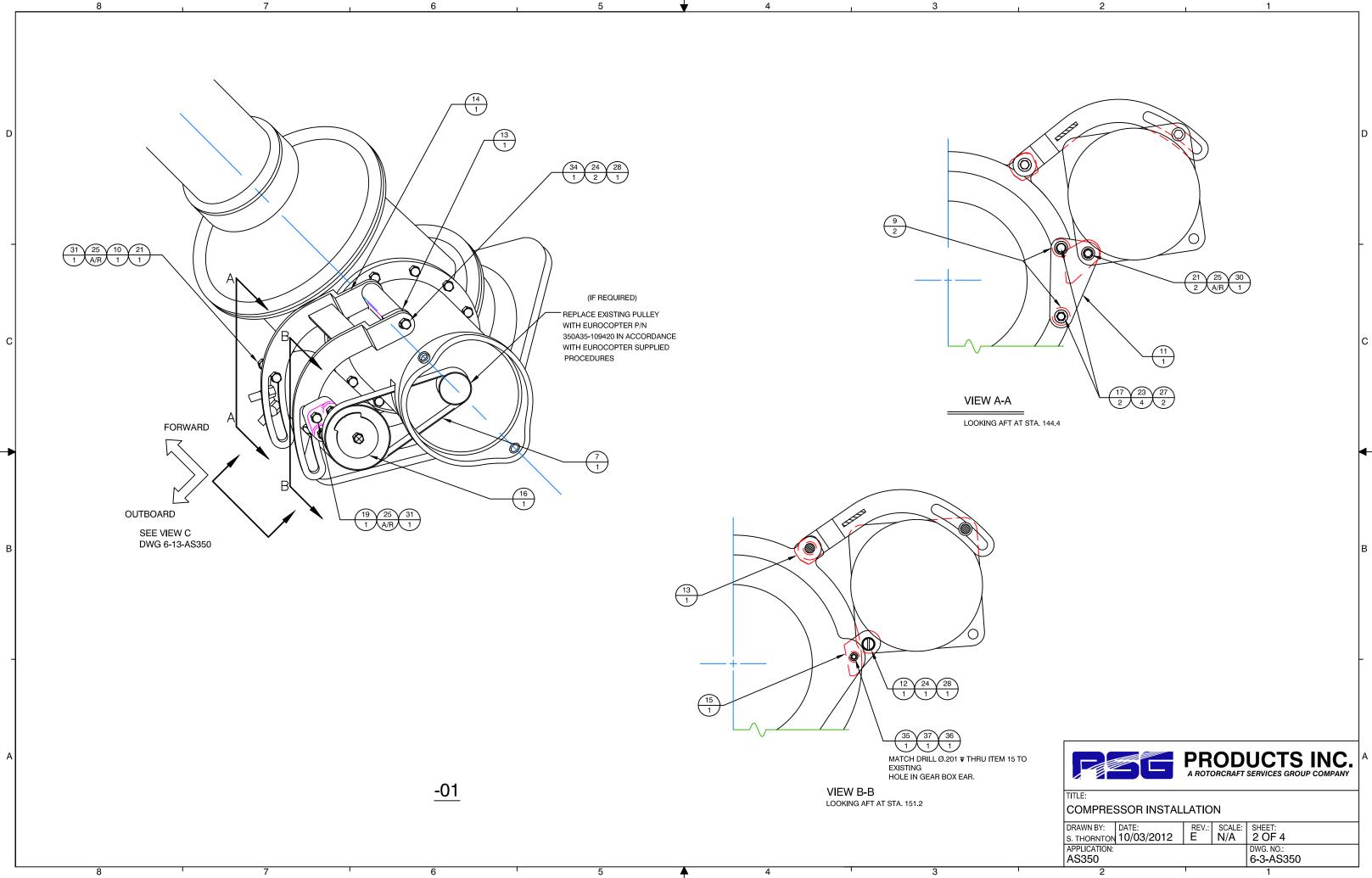
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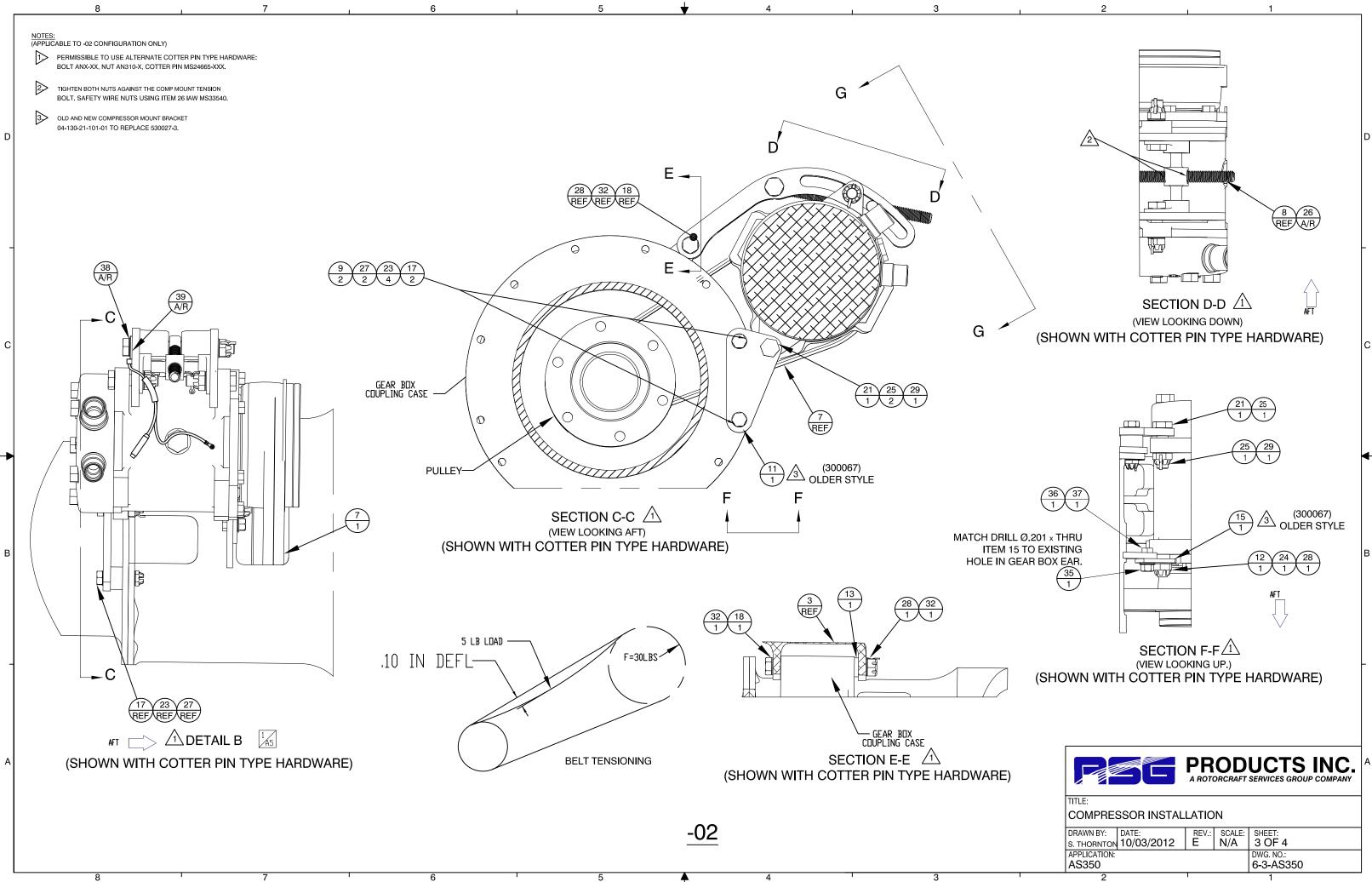
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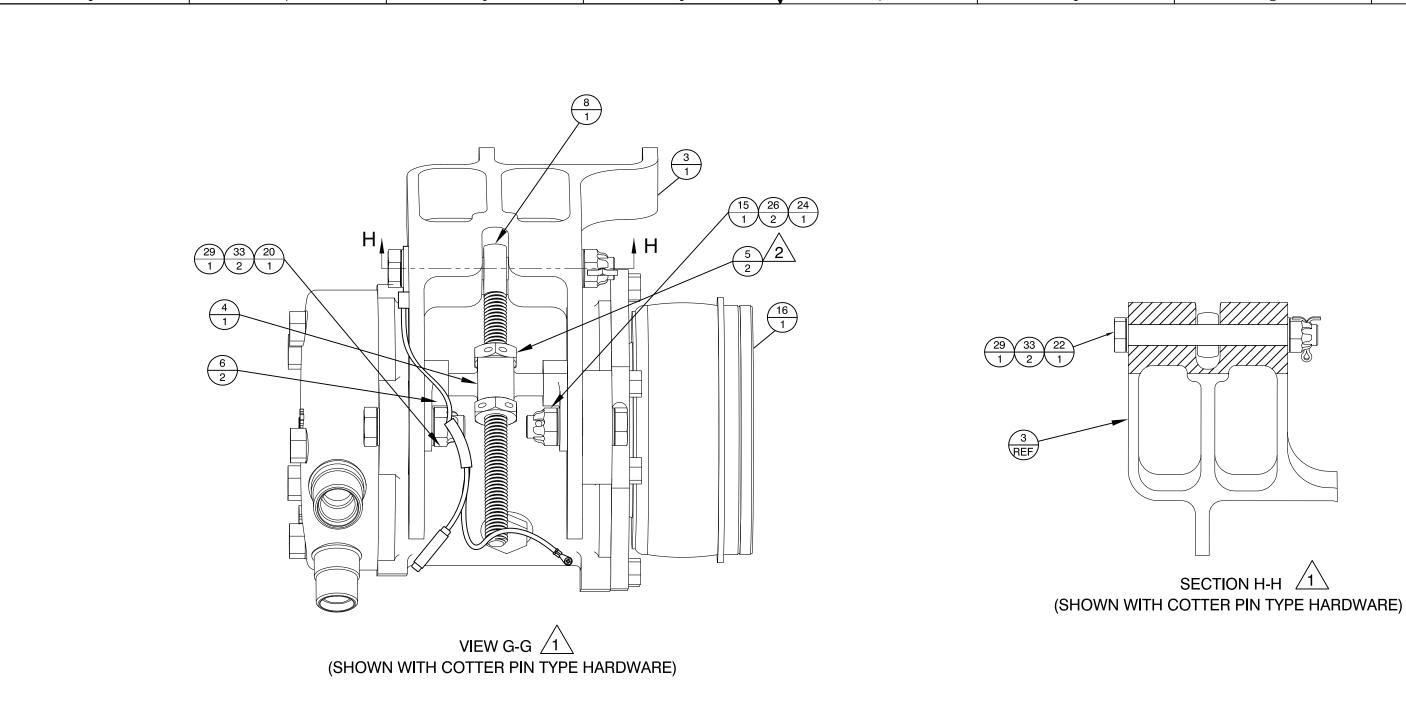
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REVISION RECORD

REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY			
A	01/30/06	CHANGED BOLT, NAS1305-44 TO NAS1305-45 FOR EXTRA LENGTH. CHANGED BELT TO 060018-1TO ADDRESS LENGTH ISSUE.ADDED COMPRESSOR SHIM PN: 300363-2 AND SHIM PN: 261155 TO ISOMETRIC VIEW. CHANGED WASHER NOTES. REMOVED BEVELED EDGE NOTE.ADDED COMPRESSOR PN 590008-1. ADDED BELT PN: 060005. REVISED NOTES TO MATCH.		JTYE			
В	06/30/08	CHANGED AEC PN: 350A351094 TO PN: 350A35-1094-20 TO MATCH AEC IPC. REVISED TITLE BLOCK.		JTYE			
с	10/03/12	INCORPORATED ECO 0508.		WST			
D	09/01/14	CHANGED TITLE BLOCK AND REVISION BLOCK. ADDED AND CHANGED PART NUMBERS, DESCRIPTION AND QUANTITIES TO BOM PER ECO # 0568.		AJC			
E	01/19/22	INCORPORATED ECO'S 0720, 0908, 0941 & 0982.		SGB			







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-02 (CONTINUED)

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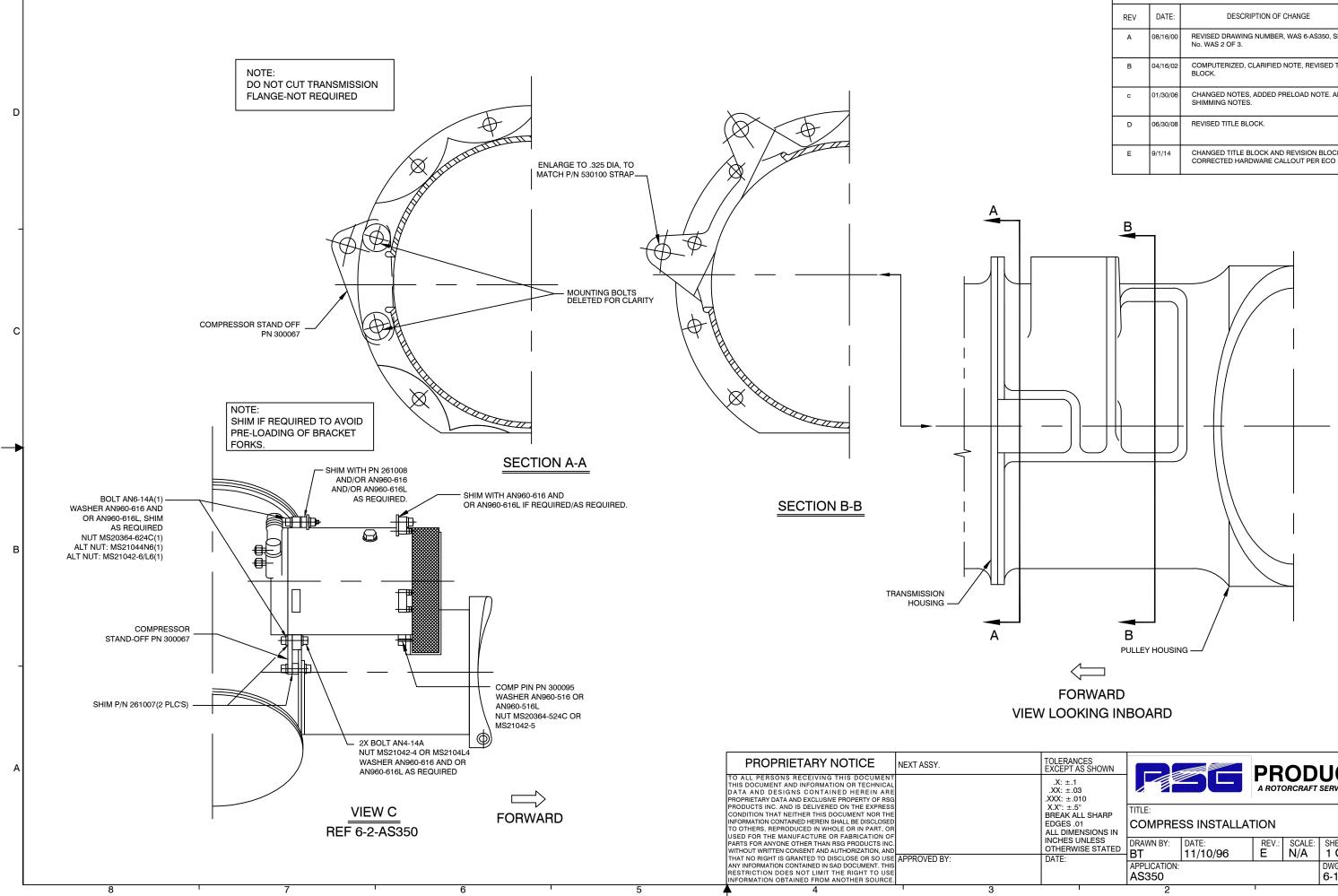
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				E	ECO	O No. 11	88		SHT 1 OF 1	
					G			~	REV 📻	
				CHANGE		6-	3-AS35	0	E	
		PRODUCT	S INC.		DW	/G No.			REV	
CH		CLASS:		RDER	- DW	/G No.			REV	
				ON-INTERCHANGEABLE PAR	TS DEF					
		HANGEABLE PARTS			REF	STC NO. S	H35093	SW		
EXIS	TING/I	IN-WORK STOCK DISP	OSITION:		EF	FECTIVITY:				
				-WORK EXISTING STOCK			S CUSTOMER		JNITS SPECIFIED	
	CRAP	EXISTING STOCK	0	THER BREAK IN AT NEXT BUIL		ALL UNITS ME	GD AFIER IHS		ALL UNIIS	
1	DESC	CRIPTION OF C	HANGE: (ON SHEET 1 OF 4 AI	DD N	OTE 7 RE	FERENCIN	G COMPRES	SOR	
E	BRAC	CKET KIT P/N: 3	50-11-031	-02. ON SHEET 1 O	F 4 AI	DD TABLE	E 1 TO ZN [05 REFERENC	ING	
(CON	APRESSOR BRA	CKET KIT I	P/N: 350-11-031-02	AND	COMPC	NENTS OF	BRACKET KI	т. 🔰	
W/	AS:				IS:					
NOT	ES:				NOTE	<u>S:</u>				
1.	UTILIZ	ED ON AS350 WITH LATEST	TRANSMISSION H	OUSING DESIGN	1.	UTILIZED ON AS	350 WITH LATEST T	RANSMISSION HOUSIN	G DESIGN	
2.		RNATE FOR ITEM 16 COMPR BE USED WITH ITEM 7 ALTE						SSOR IS P/N 590008 WH		
3.		RE PLANAR TOLERANCE BE						WEEN THE TAIL ROTOR		
	CHAN	Y CENTERLINE IS ±.100 IN. GING THE WASHER STACK LING CASE.					WASHER STACKU	LIGNMENT CAN BE ADJ 9 BETWEEN ITEM 11 & G		
4.	REAM	ITEM 10 BUSHING FOR PRO	OPER FIT OF ITEM	12 PIN WITH RANGE	4.					
5.		O .359 IN. ON BELT TO F= 30 LBS. DE	FLECTION AT CEN	ITER OF THE BELT TO						
		IN. UNDER 5 LB LOAD.				BE .10 IN. UNDER 5 LB LOAD.				
6.	HARD	ACE EXISTING RING TERMIN WARE ON BRACKET ASSEM AL TERMINAL RING AND FA	IBLY TO MOUNT G	ROUNDING STRAP ON ITEM		 REPLACE EXISTING RING TERMINAL WITH ITEM 39 FOR USE WITH ¼" HARDWARE ON BRACKET ASSEMBLY TO MOUNT GROUNDING STRAP ON ITEM 14. SEAL TERMINAL RING AND FASTENER WITH ITEM 38. 				
					7.					
									,	
			TABLE 1							
				OR BRACKET KIT P/N: 350-11	-031-02					
			ITEM DESCR	RIPTION	PART	NUMBER	QTY			
				OR MOUNT BRACKET		0-21-101-01	1			
				OR MOUNT TENSION BOLT		0-21-102-01	1			
			JAM NUT, D			0-21-104-01	2			
			BUSHING, S		26100		2			
				OR STANDOFF	30006		1			
				IPRESSOR SHIM	30036		2			
			COMPRESS		30009		1			
				JSING MOD ASSEMBLY	53010		1			
RF	MAR	RKS: MINOR CH	ANGE				ENGINEE	RING REVIEW BOA	RD	
		IG NOTE AND		RI F		SIC	GNATURE	STAMP	DATE	
							Add	MRB04	11/10/2022	
						Bill	~,	QA22	11/10/2022	
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						Aug			1.11.1 marca	
							INCORPOR	L	1	
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			ECO No. 1180	SHT 1 OF 1
		CHANGE	DWG NO. 6-3-AS350	REV F
	PRODUCTS INC.		DWG No.	REV
CHANGE			DWG No.	REV
	D CHG. PARTS NOT AFFECTED 🗌 N		REF. STC No.	
		THER	<u>SH3509SW</u>	
	N-WORK STOCK DISPOSITION: D CHG. PARTS NOT AFFECTED 🔲 RE	E-WORK EXISTING STOCK	EFFECTIVITY:	
		THER BREAK IN AT NEXT BUILD		
DRA	WING.		01 CONFIGURATION SHEET	
	OWARE FOR INSTALLATION		D ALLOWABLE ALTERNATE . ONLY SHOWING WHAT C	
WAS	:	S IS:		
		ALCONARE A BOLT 22 BOLT 22		
REMAR	RKS: MINOR CHANGE.			
REMO	VED OBSOLETE CONFIG	. ADDED ALTERNATE		STAMP DATE
METRIC	C HARDWARE.		By Am	QA22 1/5/2023
			AMA F	2016 1/9/2023
			INCORPORATION	STATUS
				OUTSTANDING

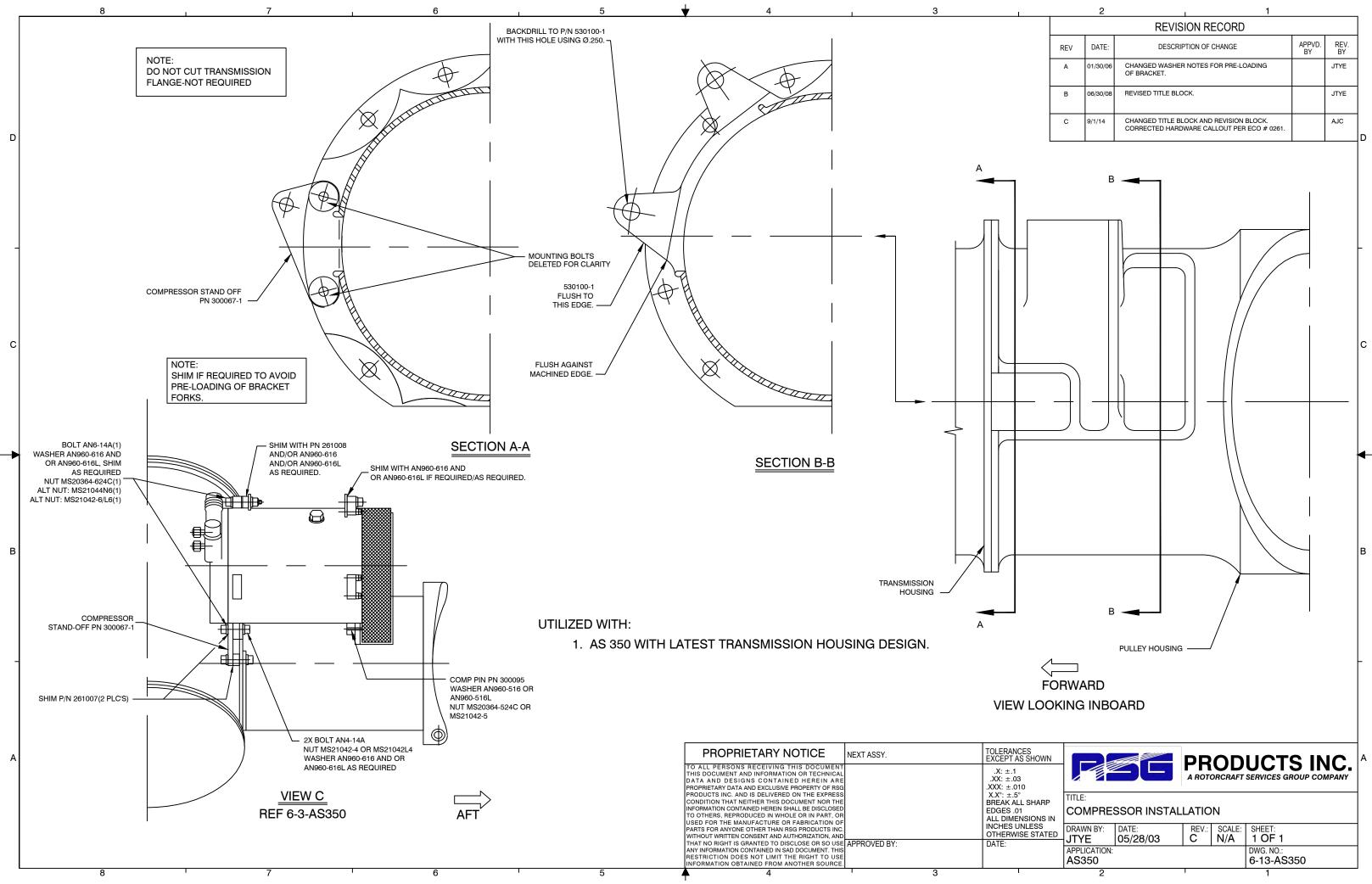


REVISION RECORD						
REV	REV DATE: DESCRIPTION OF CHANGE					
A	08/16/00	REVISED DRAWING NUMBER, WAS 6-AS350, SHEET No. WAS 2 OF 3.				
В	04/16/02	COMPUTERIZED, CLARIFIED NOTE, REVISED TITLE BLOCK.				
с	01/30/06	CHANGED NOTES, ADDED PRELOAD NOTE. ADDED SHIMMING NOTES.		JTYE	D	
D	06/30/08	REVISED TITLE BLOCK.		JTYE		
E	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK. CORRECTED HARDWARE CALLOUT PER ECO # 0261.		AJC		

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ANCES T AS SHOWN 1 03 010		56			UCTS INC. SERVICES GROUP COMPANY	A
±.5° CALL SHARP S .01 MENSIONS IN		SS INSTALLAT	TION			
S UNLESS WISE STATED	DRAWN BY: BT	DATE: 11/10/96	REV.: E	SCALE: N/A	SHEET: 1 OF 1	
	APPLICATION: AS350				DWG. NO.: 6-12-AS350	1
	2		1		1	-







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REVISION RECORD						
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY		
A	01/30/06	CHANGED WASHER NOTES FOR PRE-LOADING OF BRACKET.		JTYE		
В	06/30/08	REVISED TITLE BLOCK.		JTYE		
С	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK. CORRECTED HARDWARE CALLOUT PER ECO # 0261.		AJC		

ALL SHARP						
.01 IENSIONS IN	COMPRESSOR INSTALLATION					
UNLESS WISE STATED	DRAWN BY: JTYE	DATE: 05/28/03	REV.: C	SCALE: N/A	SHEET: 1 OF 1	
	APPLICATION: AS350			DWG. NO.: 6-13-AS350		
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	8	I	7	6	5		4	3
KIT P/ 1) 2) 3) 4) 5)	ALLATION INSTRUCTIONS: N: 350-00-01, -011, -031, -011HP, A THE ABOVE KITS UTILIZE THE SAM DRAWING 350-00-011HP OR -031H IN EARLY 1997 IT WAS NOTICED B EUROCOPTER CANADA, LTD. THA A DIFFERENT "ENGINE TO MAIN G CALLED A "HOUSING", INSTALLED EUROCOPTER IPC WAS: 350A35-1 EXTENDING OFF THE "HOUSING", VIEW "A"). THE NEW "HOUSING " PART NUM THE LEFT SIDE THAT IS ONLY 25 r (SEE VIEW "B") THE 25 mm LONG EAR WILL NOT / INC. SD-505 OR SD-507 COMPRES LOCATION. THE "LOGICAL ANSWER" WAS TO COMPRESSOR(S) SO THAT A DIFF BE REQUIRED. ONLY TWO (2) PART CHANGES WI a. COMPRESSOR MOUNT ASSE WIDER AT THE TOP MOUNTIN b. A NEW COMPONENT, NOT PF ASSEMBLY", P/N: 530100 IS U MOUNTING POINT BACK TO I" D. A NEW COMPONENT, NOT PF ASSEMBLY", P/N: 530100 IS U MOUNTING POINT BACK TO I" N SOME CASES IT MAY BE NECES MATERIAL FROM THE OUTER EDES MATERIAL FROM THE OUTER EDES THOUSING" EAR MUST BE TOUCHI IF AERO AIRE OR OTHER SIMILAR PREVIOUSLY INSTALLED PER VIEW FOLLOW THE STEPS IN ITEM 5 FO	NDEN SD-505 OR SD-507 COM P FOR DETAILS OF SD-507 IN Y AMERICAN EUROCOPTER / T A FEW AS350 MODELS WEI IEAR BOX COUPLING CASING T HE PART NUMBER SHOWN 104-03, THIS COMPONENT H, ON BOTH SIDES, 37 mm IN L BER IS 350A08-1635-21. IT H/ nm LONG. ALLOW AN INTEGRATED FLIG ISOR TO BE INSTALLED IN IT LOCATE THE "MOUNTING PO TERENT LENGTH BELT, ETC. ERE REQUIRED TO ALLOW IT MBLY 530027-1 WAS CHANGI IG POINT). TEVIOUSLY USED, "STRAP, HI NELY SON TO REMOVE A SMALL ISOR TO REMOVE A SMALL ROPER LOCATION. THIS IS D OF THE 25 mm EAR TO ALL ROPER LOCATION. THIS IS D OF THE COMPONENT WHICD IS EAR. ANY PAINT REMOVED ED UP BEFORE INSTALLING T TYPE A/C COMPRESSOR HAI V "B" or "C", IT MAY BE NECES	ISTALLATION) AND LATER RE ARRIVING WITH S", COMMONLY IN THE AS "EARS" ENGTH (SEE AS ONE EAR ON AS ONE EAR ON AS ONE EAR ON ANT SYSTEMS, S USUAL DINT" OF THE WOULD NOT EM 3 TO OCCUR. ED TO -2 (.125 DUSING MOD. MPRESSOR THE "STRAP" TO AMOUNT OF LOW THE "NEW" UE TO THE "SHIM" H ALLOWS D FROM THE THE IFS PARTS. S BEEN	AFTER P/N 530100 IS LOCATED, BACKDRILL #10 HOLE INTO HOUSING, INSTALL HARDWARE: AN3-5A BOLT (1) AN960-10L WASHER (2) MS21042-L3 NUT (1)	NOTE: COMPRESSOR REMOV FOR CLARITY.	(1) Ti	P/N 530027-3	A (2) ANG ALT: M (1) A (1) A (
					SECTION A-A			A

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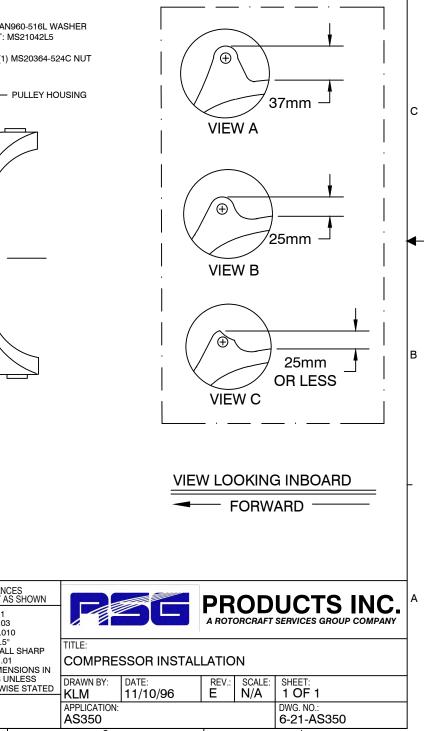
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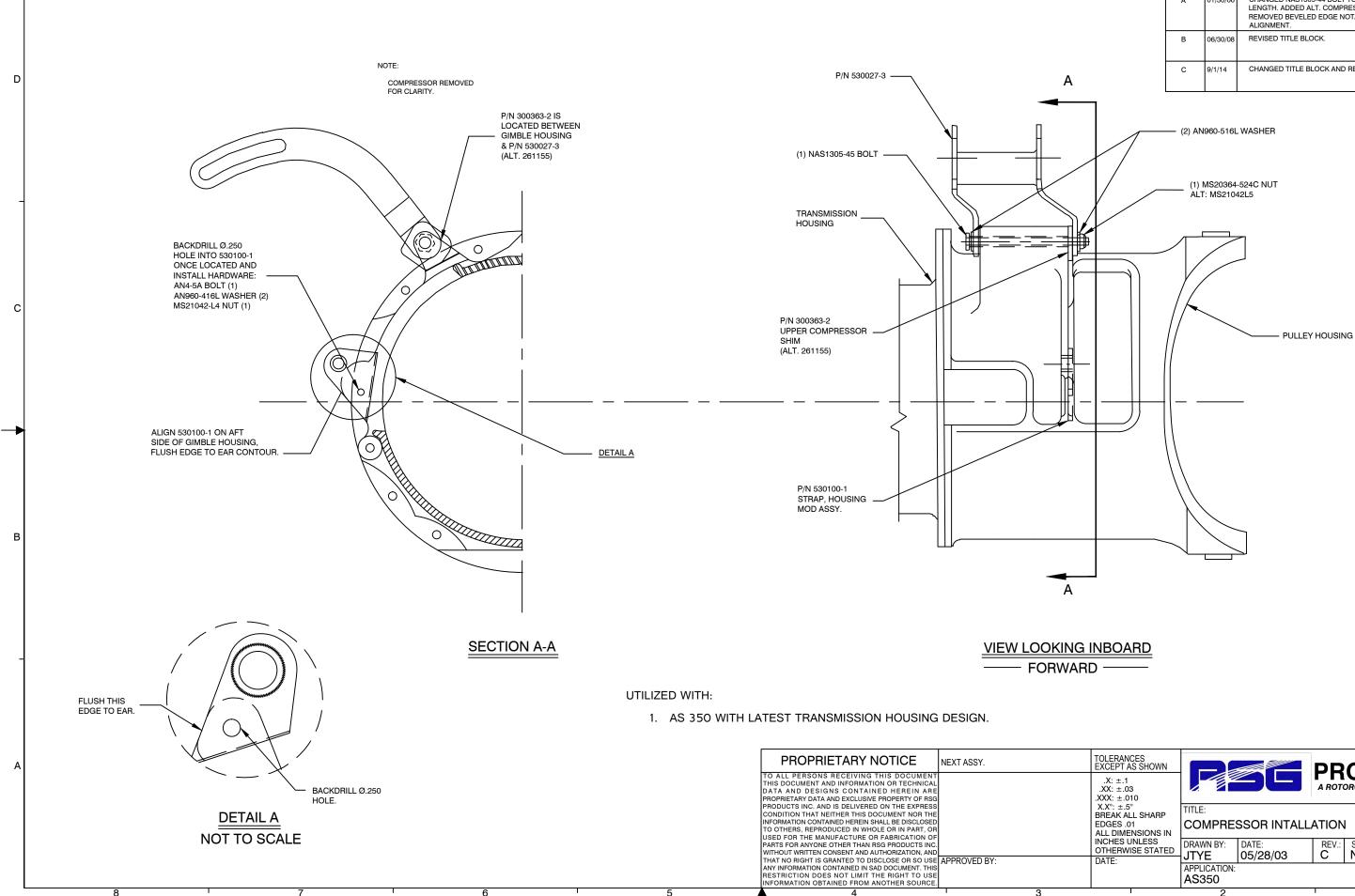
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REVISION RECORD

REV DATE. DESCRIPTION OF CLANGE BY A 08/16/00 REDRAWN INTO AUTOCAD, REVISED DRAWING No. WAS 6-AS350; SHEET No. WAS 3 OF 3. ADDED ITEMS 6 TO "INSTRUCTIONS". CHANGED "CASING" TO "HOUSING". ADDED VIEW A, B AND C. Image: Comparison of the state of th		REVISION RECORD						
WAS 6-AS350; SHEET No. WAS 3 OF 3. ADDED ITEMS 6 TO "INSTRUCTIONS". CHANGED "CASING" TO "HOUSING". ADDED VIEW A, B AND C. B 05/08/02 REVISED TITLE BLOCK. CHANGED 530027-2 TO 530027-3. CONVERTED TO AUTOCAD. C 01/30/06 CHANGED NAS1305-44 BOLT TO NAS1305-45 FOR LENGTH. D 06/30/08	REV	DATE:	DESCRIPTION OF CHANGE		REV. BY			
D 00/00/02 530027-3. CONVERTED TO AUTOCAD. JTYE C 01/30/06 CHANGED NAS1305-44 BOLT TO NAS1305-45 FOR LENGTH. JTYE D 06/30/08 REVISED TITLE BLOCK. JTYE	A	08/16/00	WAS 6-AS350; SHEET No. WAS 3 OF 3. ADDED ITEMS 6 TO "INSTRUCTIONS". CHANGED "CASING" TO					
D 06/30/08 REVISED TITLE BLOCK. JTYE	В	05/08/02						
	С	01/30/06			JTYE			
	D	06/30/08	REVISED TITLE BLOCK.		JTYE			
E 9/1/14 CHANGED TITLE BLOCK AND REVISION BLOCK. AJC	E	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK.		AJC			





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	REVISION RECORD						
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY			
A	01/30/06	CHANGED NAS1305-44 BOLT TO NAS1305-45 FOR LENGTH. ADDED ALT. COMPRESSOR SHIMS. REMOVED BEVELED EDGE NOTATION FOR ALIGNMENT.		JTYE			
В	06/30/08	REVISED TITLE BLOCK.		JTYE			
с	9/1/14	CHANGED TITLE BLOCK AND REVISION BLOCK.		AJC	D		

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ANCES T AS SHOWN 1.1 1.03 1.010		56		-	UCTS INC. SERVICES GROUP COMPANY
±.5° (ALL SHARP S .01 MENSIONS IN	TITLE: COMPRESSOR INTALLATION				
S UNLESS RWISE STATED	DRAWN BY: JTYE	DATE: 05/28/03	REV.: C	SCALE: N/A	SHEET: 1 OF 1
	APPLICATION: AS350				DWG. NO.: 6-22-AS350
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RSG Products Inc. INSTALLATION OF ELECTRICAL – AS350 Air Conditioning

Step 9

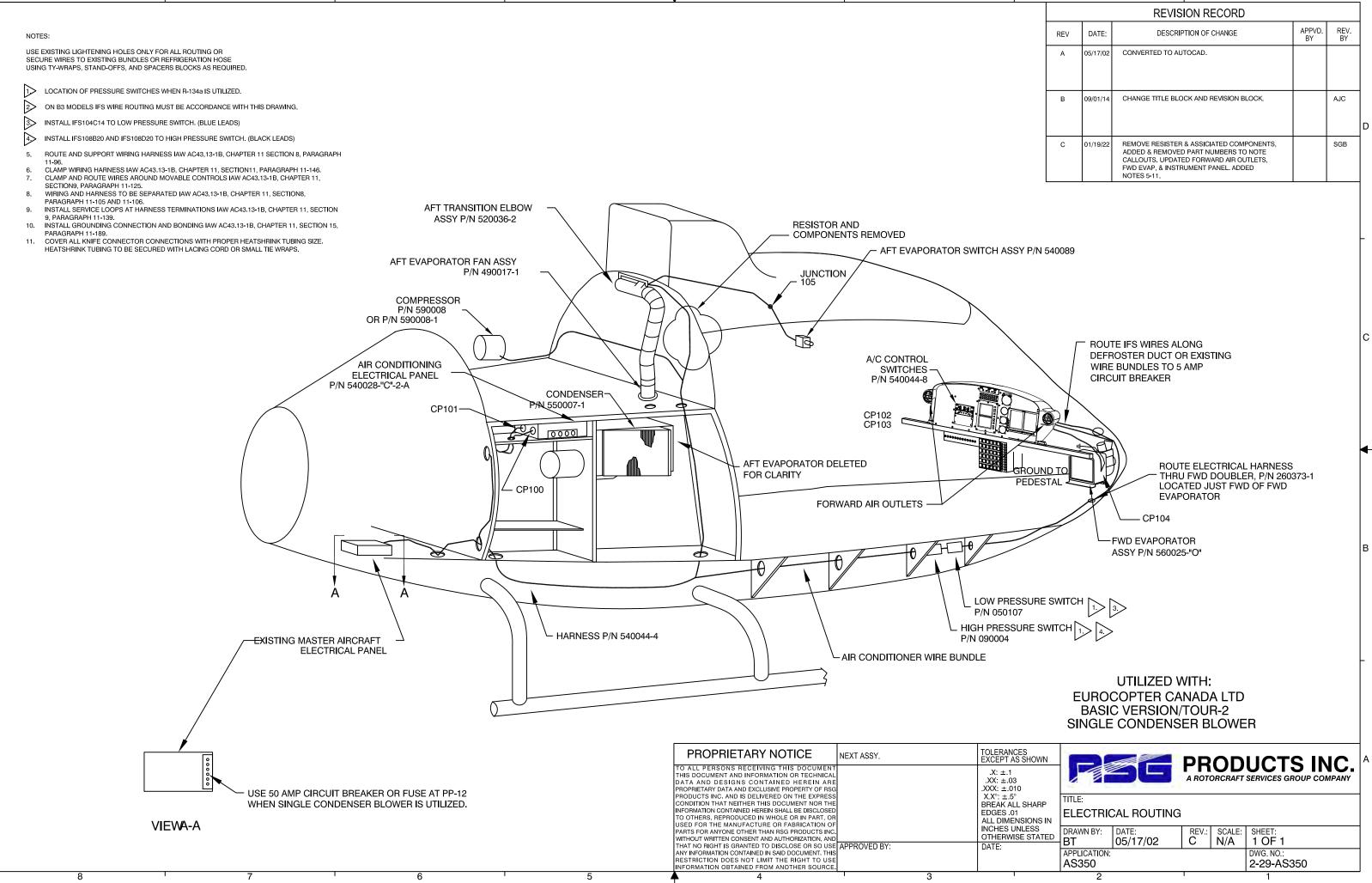
Installation of Electrical

Page 1 of 2

RSG Products Inc. INSTALLATION OF ELECTRICAL – AS350 Air Conditioning

Installation of Electrical

STEP	PROCEDURE	MECH	INSP
9.1	(Intentionally left blank)		
9.2	(Intentionally left blank)		
9.3	(Intentionally left blank)		
9.4	Install and route the electrical harness, P/N 540044-4 config01 or -02, per Drawing 2-29-AS350, 2-11-AS350 and 2-21 AS350. Install optional EMI-RFI filter per drawing 2-11-AS350 View A with hardware shown.		
9.5	Install and route electrical harness P/N 540045-1 using 1 ea. 8 x #10 Ring Terminal and ANL-50 Limiter (not incl.).		
9.6	Install Instrument Panel Switch P/N 540044-8 config01 or -02, per drawing 5-26-AS350.		
9.7	Install aft switch assembly P/N 540089 config01 or -02, per drawings 5-10-AS350, 2-29-AS350, 2-11-AS350 and 2-21-AS350		



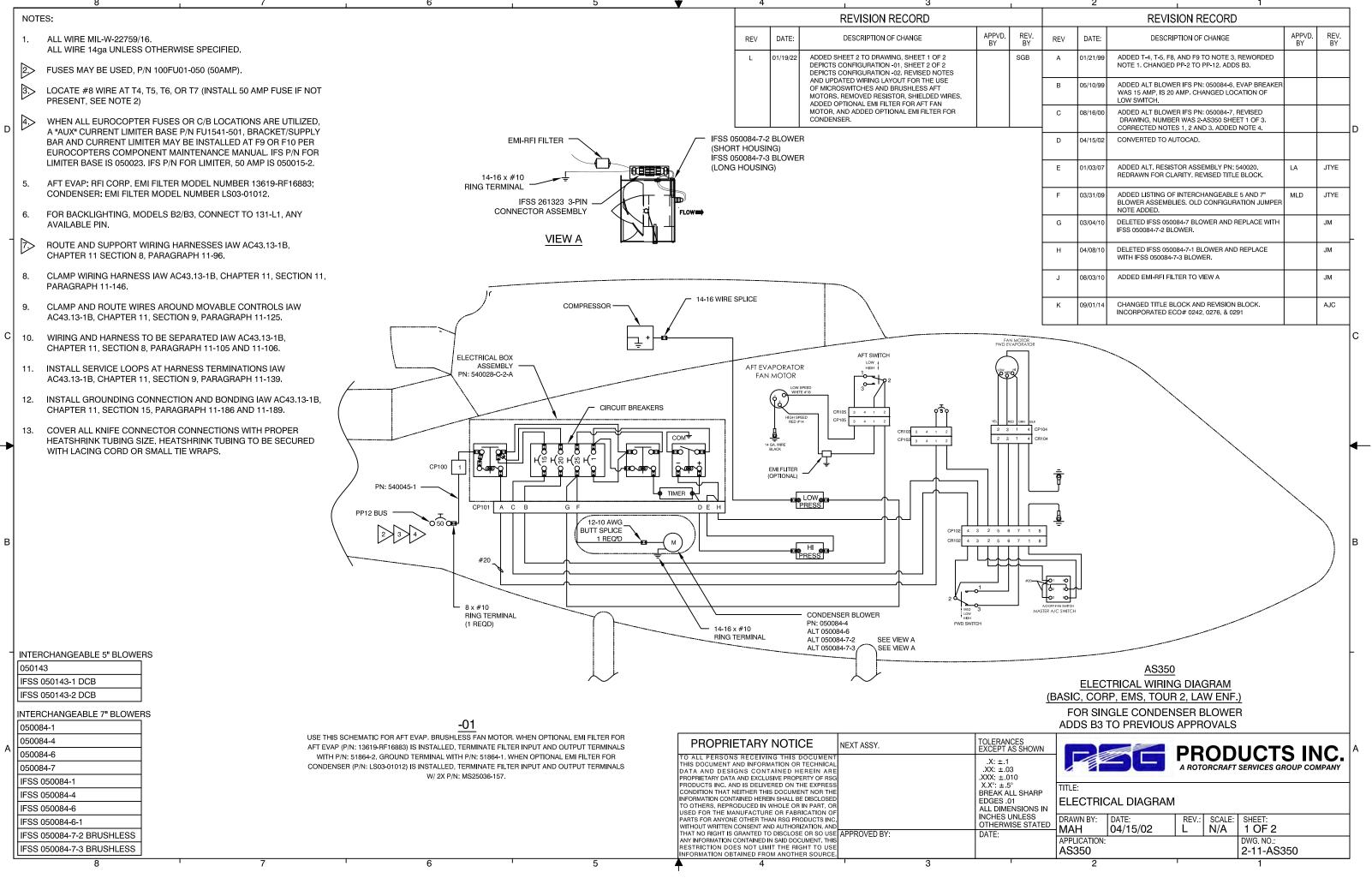
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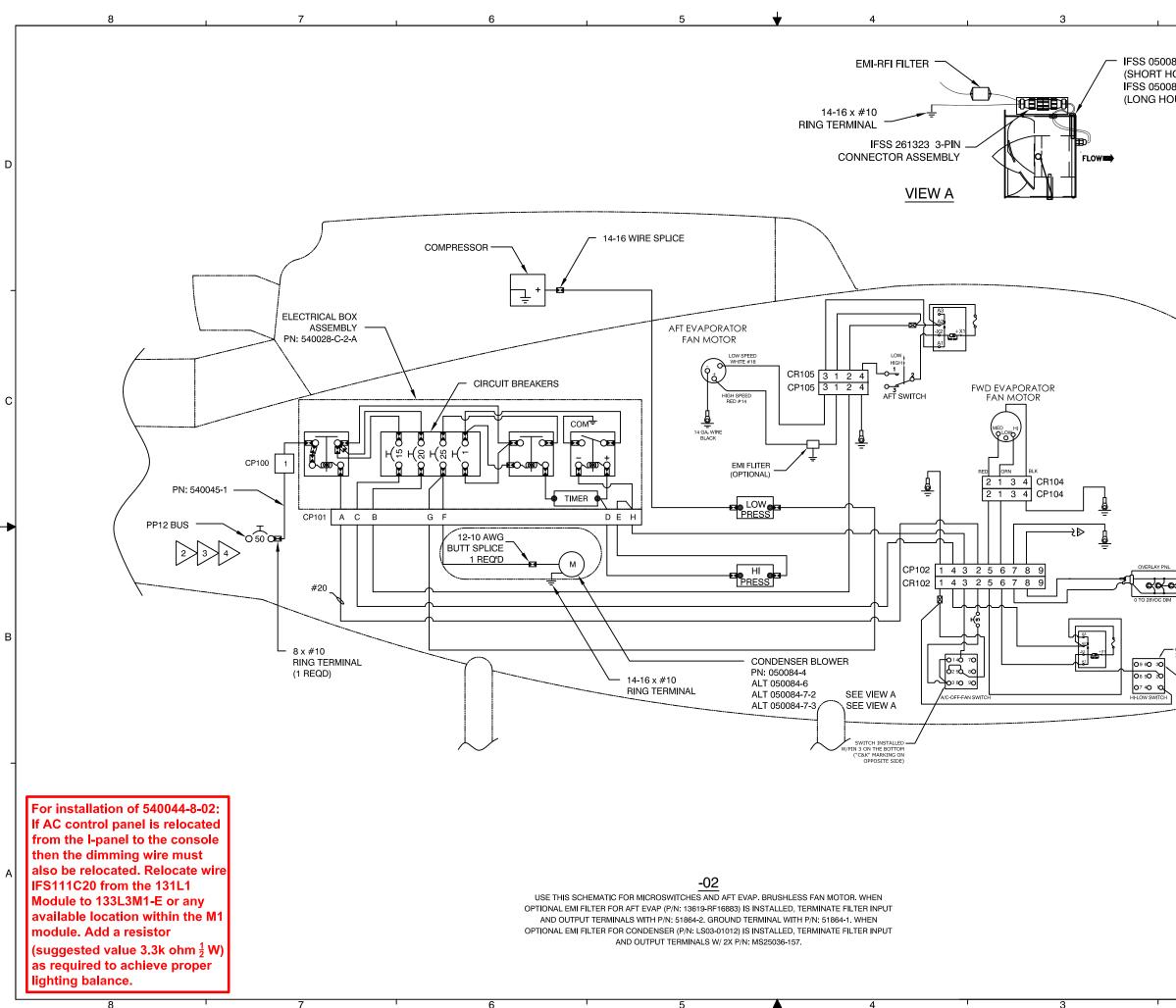
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		REVISION RECORD			
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
A	05/17/02	CONVERTED TO AUTOCAD.			
В	09/01/14	CHANGE TITLE BLOCK AND REVISION BLOCK.		AJC	
С	01/19/22	REMOVE RESISTER & ASSICIATED COMPONENTS, ADDED & REMOVED PART NUMBERS TO NOTE CALLOUTS. UPDATED FORWARD AIR OUTLETS, FWD EVAP, & INSTRUMENT PANEL. ADDED NOTES 5-11.		SGB	
	B	A 05/17/02 B 09/01/14	REV DATE: DESCRIPTION OF CHANGE A 05/17/02 CONVERTED TO AUTOCAD. B 09/01/14 CHANGE TITLE BLOCK AND REVISION BLOCK. C 01/19/22 REMOVE RESISTER & ASSICIATED COMPONENTS, ADDED & REMOVED PART NUMBERS TO NOTE CALLOUTS. UPDATED FORWARD AIR OUTLETS, FWD EVAP, & INSTRUMENT PANEL. ADDED	REV DATE: DESCRIPTION OF CHANGE APPVD. BY A 05/17/02 CONVERTED TO AUTOCAD. B B 09/01/14 CHANGE TITLE BLOCK AND REVISION BLOCK. C 01/19/22 REMOVE RESISTER & ASSICIATED COMPONENTS, ADDED & REMOVED PART NUMBERS TO NOTE CALLOUTS. UPDATED FORWARD AIR OUTLETS, FWD EVAP, & INSTRUMENT PANEL. ADDED	REV DATE: DESCRIPTION OF CHANGE APPVD. BY REV. BY A 05/17/02 CONVERTED TO AUTOCAD. Image: Constraint of the second sec



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			REVISION RECORD			
REV. BY	REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
SGB	A	01/21/99	ADDED T-4, T-5, F8, AND F9 TO NOTE 3, REWORDED NOTE 1. CHANGED PP-2 TO PP-12. ADDS B3.			
	В	05/10/99	ADDED ALT BLOWER IFS PN: 050084-6, EVAP BREAKER WAS 15 AMP, IS 20 AMP. CHANGED LOCATION OF LOW SWITCH.			
	С	08/16/00	ADDED ALT BLOWER IFS PN: 050084-7, REVISED DRAWING, NUMBER WAS 2-AS350 SHEET 1 OF 3. CORRECTED NOTES 1, 2 AND 3. ADDED NOTE 4.			
	D	04/15/02	CONVERTED TO AUTOCAD.			
	E	01/03/07	ADDED ALT. RESISTOR ASSEMBLY PN: 540020. REDRAWN FOR CLARITY. REVISED TITLE BLOCK.	LA	JTYE	
	F	03/31/09	ADDED LISTING OF INTERCHANGEABLE 5 AND 7" BLOWER ASSEMBLIES. OLD CONFIGURATION JUMPER NOTE ADDED.	MLD	JTYE	
	G	03/04/10	DELETED IFSS 050084-7 BLOWER AND REPLACE WITH IFSS 050084-7-2 BLOWER.		JM	
	н	04/08/10	DELETED IFSS 050084-7-1 BLOWER AND REPLACE WITH IFSS 050084-7-3 BLOWER.		JM	
	J	08/03/10	ADDED EMI-RFI FILTER TO VIEW A		ML	
	к	09/01/14	CHANGED TITLE BLOCK AND REVISION BLOCK. INCORPORATED ECO# 0242, 0276, & 0291		AJC	
	BY	BY REV SGB A B C C D E F G H J	REV. BY REV DATE: SGB A 01/21/99 B 05/10/99 C 08/16/00 D 04/15/02 E 01/03/07 F 03/31/09 G 03/04/10 H 04/08/10 J 08/03/10	REVISION RECORD REV. BY REV DATE: DESCRIPTION OF CHANGE SGB A 01/21/99 ADDED T-4, T-5, F8, AND F9 TO NOTE 3, REWORDED NOTE 1. CHANGED PP-2 TO PP-12. ADDS B3. B 05/10/99 ADDED ALT BLOWER IFS PN: 050084-6, EVAP BREAKER WAS 15 AMP, IS 20 AMP. CHANGED LOCATION OF LOW SWITCH. C 08/16/00 ADDED ALT BLOWER IFS PN: 050084-7, REVISED DRAWING, NUMBER WAS 2-AS350 SHEET 1 OF 3. CORRECTED NOTES 1, 2 AND 3. ADDED NOTE 4. D 04/15/02 CONVERTED TO AUTOCAD. E 01/03/07 ADDED ALT. RESISTOR ASSEMBLY PN: 540020. REDRAWN FOR CLARITY. REVISED TITLE BLOCK. F 03/31/09 ADDED LISTING OF INTERCHANGEABLE 5 AND 7" BLOWER ASSEMBLIES. OLD CONFIGURATION JUMPER NOTE ADDED. G 03/04/10 DELETED IFSS 050084-7.2 BLOWER AND REPLACE WITH IFSS 050084-7.2 BLOWER. H 04/08/10 DELETED IFSS 050084-7.1 BLOWER AND REPLACE WITH IFSS 050084-7.2 BLOWER. J 08/03/10 ADDED EMI-RFI FILTER TO VIEW A	REV. BY REV DATE: DESCRIPTION OF CHANGE APPVD. BY SGB A 01/21/99 ADDED T-4, T-5, F8, AND F9 TO NOTE 3, REWORDED NOTE 1. CHANGED PP-2 TO PP-12. ADDS B3. Image: Comparison of the temperature of the temperature of the temperature of temperate of temperature of temperate of temperature of tempe	REVISION RECORD REV. BY REV DATE: DESCRIPTION OF CHANGE APPVD. BY REV. BY SGB A 01/21/99 ADDED T-4, T-5, F8, AND F9 TO NOTE 3, REWORDED NOTE 1. CHANGED PP-2 TO PP-12. ADDS B3. Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2">Image: Colspan="2">Image: Colspan="2">ADDED ALT BLOWER IFS PN: 050084-6, EVAP BREAKER WAS 15 AMP, IS 20 AMP. CHANGED LOCATION OF LOW SWITCH. C 08/16/00 ADDED ALT BLOWER IFS PN: 050084-7, REVISED DRAWING, NUMBER WAS 2-AS350 SHEET 1 OF 3. CORRECTED NOTES 1, 2 AND 3, ADDED NOTE 4. Image: Colspan="2">Image: Colspan="2">ADDED ALT BLOWER IFS PN: 050084-7, REVISED DRAWING, NUMBER WAS 2-AS350 SHEET 1 OF 3. CORRECTED NOTES 1, 2 AND 3, ADDED NOTE 4. D 04/15/02 CONVERTED TO AUTOCAD. Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">ADDED ALT RESISTOR ASSEMBLY PN: 540020. Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" F <td< td=""></td<>



084-7-2 BLOWER	
HOUSING)	
084-7-3 BLOWER	
IOUSING)	

PTIONAL TO USE PTOST SWITCH SWITCH INSTALLED W/PIN 3 ON TOP ("C&K" MARKING ON OPPOSITE SIDE)			В
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PBG		UCTS INC	A
	A		
ELECTRICAL DIAGRAM			
DRAWN BY: DATE: MAH 04/15/02	REV. SCALE:	SHEET: 2 OF 2	
APPLICATION:		DWG NO .:	
AS350	1	2-11-AS350	
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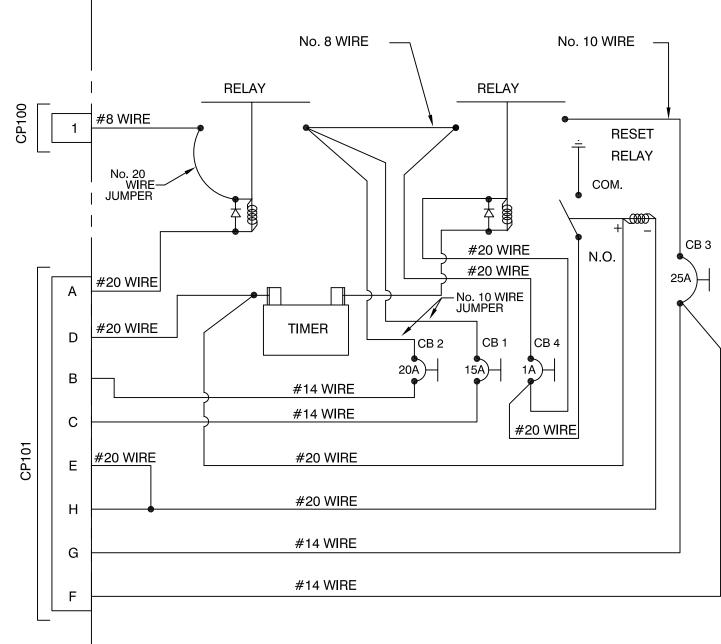
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ALL WIRE MIL-W-22759/16. \triangleright ALL WIRE 14ga UNLESS OTHERWISE SPECIFIED.

FUSES MAY BE USED, P/N 100FU01-050 (50AMP).

LOCATE #8 WIRE AT T4, T5, T6, OR T7 (INSTALL 50AMP FUSE IF NOT REPRESENT, SEE NOTE 2). ≫

- WHEN ALL EUROCOPTER FUSES OR C/B LOCATIONS ARE UTILIZED, A "AUX" CURRENT LIMITER BASE FU1541-501, BRACKET/SUPPLY BAR AND CURRENT LIMITER MAY BE INSTALLED AT F9 OR F10 PER EUROCOPTERS COMPONENT MAINTENANCE MANUAL. IFS P/N FOR LIMITER BASE IS
- 050023. IFS P/N FOR LIMITER, 50 AMP IS 050015-2. AFT EVAP: RFI CORPORATION EMI FILTER MODEL NUMBER 13619-RF16883; CONDENSER: EMI 5.
- FILTER MODEL NUMBER LS03-01012
- FOR BACKLIGHTING, MODELS B2/B3, CONNECT TO 131-L1, ANY AVAILABLE PIN. ROUTE AND SUPPORT WIRING HARNESSES IAW AC43.13-1B, CHAPTER 11 SECTION 8, 7 PARAGRAPH 11-96. CLAMP WIRING HARNESS IAW AC43.13-1B. CHAPTER 11. SECTION 11. PARAGRAPH 11-146.
- 8 CLAMP AND ROUTE WIRES AROUND MOVABLE CONTROLS IAW AC43.13-1B, CHAPTER 11, 9. SECTION 9. PARAGRAPH 11-125.
- WIRING AND HARNESS TO BE SEPARATED IAW AC43.13-1B, CHAPTER 11, SECTION 8, 10.
- PARAGRAPH 11-105 AND 11-106. INSTALL SERVICE LOOPS AT HARNESS TERMINATIONS IAW AC43.13-18, CHAPTER 11, SECTION 11. 9, PARAGRAPH 11-139.
- 12. INSTALL GROUNDING CONNECTION AND BONDING IAW AC43.13-1B, CHAPTER 11, SECTION 15, PARAGRAPH 11-186 AND 11-189.
- COVER ALL KNIFE CONNECTOR CONNECTIONS WITH PROPER HEATSHRINK TUBING SIZE. HEATSHRINK TUBING TO BE SECURED WITH LACING CORD OR SMALL TIE WRAPS. 13. FOR INSTALLATION OF 540044-8-02: IF AC CONTROL PANEL IS RELOCATED FROM THE I-PANEL TO THE CONSOLE THEN THE DIMMING WIRE MUST ALSO BE RELOCATED. RELOCATE WIRE 14.
- IFS111C20 FROM THE 131L1 MODULE TO 133L3M1-E OR ANY AVAILABLE LOCATION WITHIN THE M1 MODULE. ADD A RESISTOR (SUGGESTED VALUE 3.3k ohm ½ W) AS REQUIRED TO ACHIEVE PROPER LIGHTING BALANCE.



NOTES:

1. SEE 2-5-AS350 SH 1 OF 1 FOR WIRE SPLICE LOC.

WIRE SPEC: MIL-W-22759/16 2 WIRE NO. IFS XXX X XX

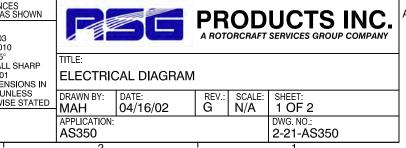
GROUP-SEQUENCE (N INDICATES GROUND)

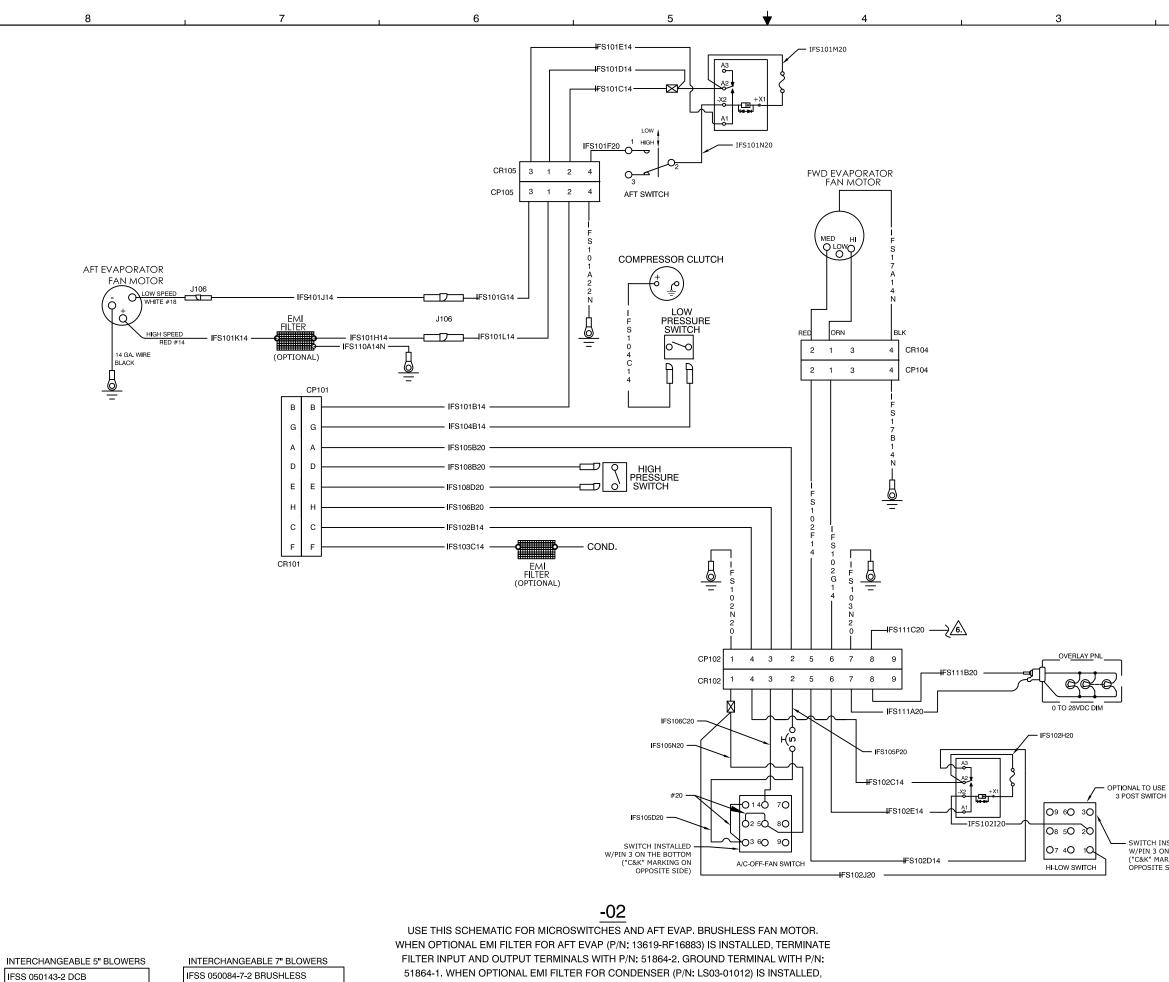
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AS350 ELECTRICAL WIRING DIAGRAM FOR SINGLE CONDENSER BLOWER **B3 ADDED TO PREVIOUS APPROVALS** (AEC BASIC)

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REVISION RECORD					
REV	DATE:	DESCRIPTION OF CHANGE	APPVD. BY	REV. BY	
A	01/21/99	WAS PP-2, IS PP-12. DELETED REMAINDER OF NOTE. ADDS B3			
В	05/10/99	EVAP BREAKER WAS 15 AMP. IS 20 AMP. CHANGED LOCATION OF LOW PRESSURE SWITCH.			
С	06/16/00	REVISED DRAWING No. WAS 2-AS350 SH 3 OF 3.			
D	04/16/02	CONVERTED TO AUTOCAD.			
E	06/30/08	REDRAWN FOR CLARITY. REVISED TITLE BLOCK.		JTYE	
F	09/01/14	CHANGED TITLE BLOCK AND REVISION BLOCK. ADDED "INTERCHANGEABLE 5 BLOWERS" AND "INTERCHANGEABLE 7 BLOWERS" TABLE FROM DRAWING No. 2-11-AS350. INCORPORATED ECO # 0534		AJC	
G	01/19/22	SHEET 1 OF 1 WILL DEPICT ELECTRICAL BOX WIRING DIAGRAM. SHEET 2 OF 2 WILL DEPICT -02 CONI WIRING DIAGRAM USING BRUSHLESS AFT FAN MOTOR MICROSWITCHES. REMOVE RISSITOR, ADDED OPTION FILTER FOR AFT MOTOR, & OPTIONAL EMI FILTER FOR CONDENSER. REMOVE NOTE FROM FOD "IF FAN ASSE 490017-1-01 INSTALLED (BRUSH)'. ON SHEET 2 OR 2 INTERCHANGEABLE 5' BLOWERS WILL BE IFSS 050143-3 IFSS 050143-3 DCB. FOR THE INTERCHANGEABLE 7" BL WILL DE IFSO 050004-7-2 & IFSS 050004-7-3. UPDATED L ADDED NOTES 5-14.	& AL EMI //BLY 2 DCB \$ OWER	SGB	_





TERMINATE FILTER INPUT AND OUTPUT TERMINALS W/ 2X P/N: MS25036-157.

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IFSS 050084-7-2 BRUSHLESS IFSS 050084-7-3 BRUSHLESS

8

IFSS 050143-3 DCB

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INSTALLED ON TOP IARKING ON E SIDE)						
	P			-	UCTS INC. SERVICES GROUP COMPANY	A
	TITLE:					
	ELECTRIC	CAL DIAGRAM				
	DRAWN BY: MAH	DATE: 4/16/02	REV.: G	SCALE: N/A	SHEET: 2 OF 2	
	APPLICATION: AS350	•			DWG. NO.: 2-21-AS350	
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Step 10

Installation of Hoses

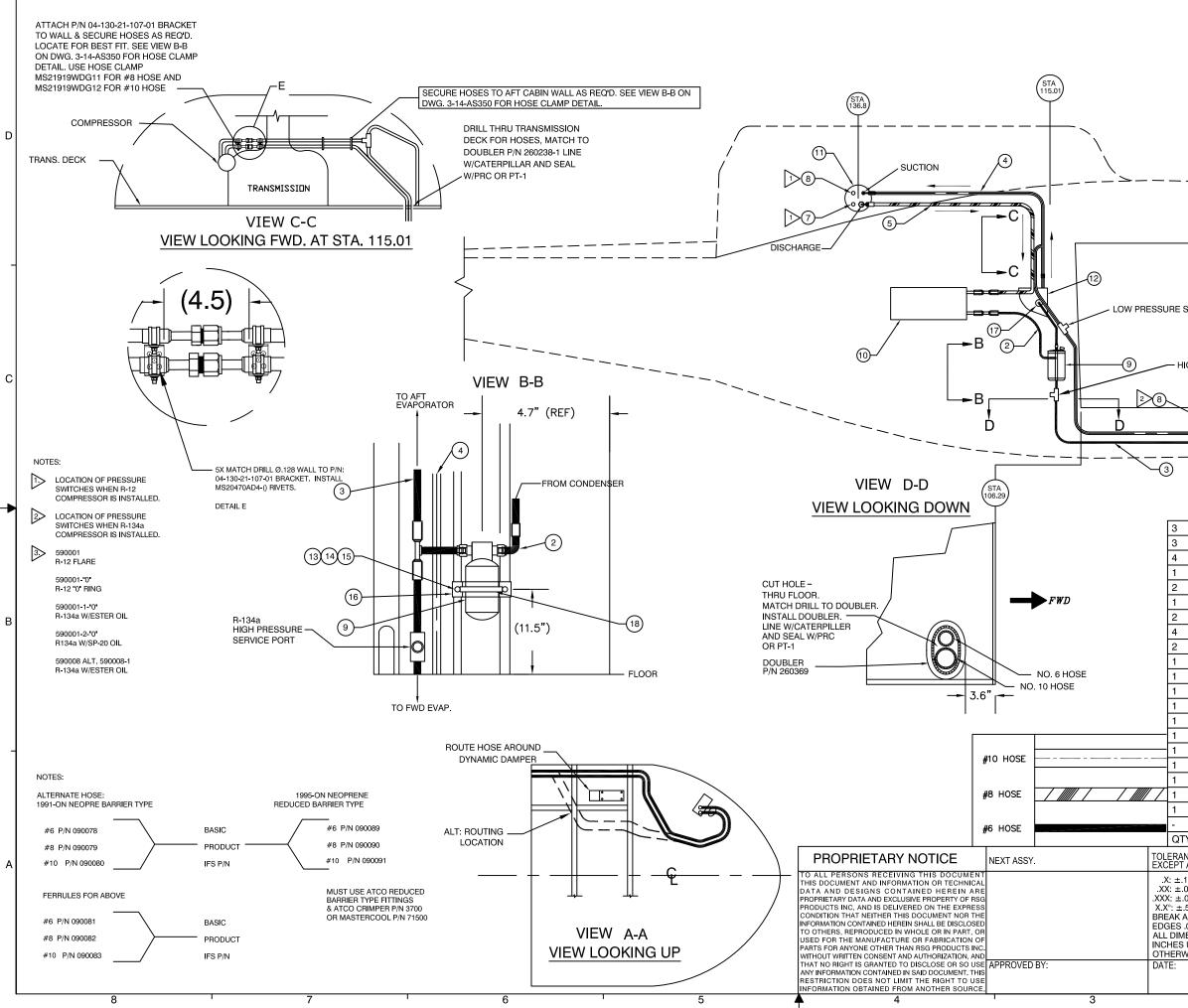
Page 1 of 3

Installation of hoses

STEP	PROCEDURE	MECH	INSP
10.1	Review Install Drawings 3-4-AS350 and 3-14-AS350.		
10.2	WARNING: Before connecting hoses, be sure all fittings have R134 approved "O" Rings installed.		
10.3	Route evaporator return line hose assembly #10 suction hose (tee fitting above deck), P/N 570087-O-A from the upper transmission deck down through the right side baggage compartment, through the existing opening in the baggage compartment floor, under the floor forward to the forward evaporator. The short length of hose connects to the Aft evaporator return fitting above the transmission deck. The longer length above the transmission deck is routed against the cabin back wall to the compressor suction fitting located on the left side of the transmission.		
10.4	Route the evaporator expansion valve supply line high pressure hose assembly #6, P/N 570072-O-A from the baggage department down through the existing opening in the baggage compartment floor, under the floor forward to the forward evaporator. The tee fitting connects to the "out" or supply fitting on the dryer bottle. The short length to the evaporator.		
10.5	Clamp the coil on the end of the expansion valve to the return hose fitting (#10 large line) with a 1-inch band clamp. Assure the fitting is clean where the coil is clamped. Insulate the coil completely with cork tape, P/N 070078-0.		
10.6	Route the condenser supply line hose assembly #8, P/N 570024-"O"-A from the compressor discharge fitting against the cabin back wall to the right side of the transmission deck. Route down the same opening in the transmission deck as the return hose was routed. Connect to condenser. Ref. Drawing No. 3-4-AS350.		

Installation of Hoses

STEP	PROCEDURE	MECH	INSP
10.7	Install drier mount bracket, P/N 260123-2 per Drawing No. 3-4-AS350 and drier bottle, P/N 090016-5.		
10.8	Do not connect drier bottle up until all lines are connected and you are ready to vacuum down system. Install hose assembly, P/N 570020-"O"-A.		
10.9	Connect high and low pressure switches. Be sure to connect the correct wire to each switch. Low pressure switch P/N 050107, High pressure switch, P/N 90004.		



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	REV	DATE:	DESCRIPTI	ON OF C	HANGE		APPVD. BY	REV. BY	
	A	06/05/02	CONVERTED TO AUTO	OCAD.					
	В	06/30/08	REVISED TITLE BLOCK	REVISED TITLE BLOCK.			MLD	JTYE	
	с	09/01/14	CHANGED TITLE BLOC			BLOCK.		AJC	
	D	01/19/22	INCORPORATED ECO	INCORPORATED ECO 0909. SGB					D
SEE ECO 1141 SEE ECO 1163 SEE ECO 1173						-			
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21	09009	4	#10 O-RING						
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19	09009		#6 O-RING						
18	06003		3 INCH BAND		P				
17	09000		EXPANSION V						
16	26012		RECEIVER DR		OUNT				
15	AN960	044-N3	WASHER					E	В
13	AN3-5		BOLT						
12	56001		AFT EVAPORA	ATOR					
11	59000		COMPRESSOR		C R-134a	O-RING (590	008-1 GR	DOVED)	
10	55000		CONDENSER						
9	09001	6-5	RECEIVER DR	RER B	OTTLE				
8	05010	7	LOW PRESSU	IRE SV	VITCH				
7	09000		HIGH PRESSL						
6	56002		FORWARD EV					ŀ	•
5	57002		HOSE ASSY C						
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T AS SHOWN .1 03 010									A
<u>5</u> ° ALL SHARP 5 .01 MENSIONS I	PLU		G DIAGRAM						
S UNLESS		WN BY: DEAN		REV.:	SCALE: N/A	SHEET: 1 OF 1			
	APPL	ICATION:	· · · · ·	(DWG. NO.:	:0		
-1	AS	350 2				3-4-AS35	0		
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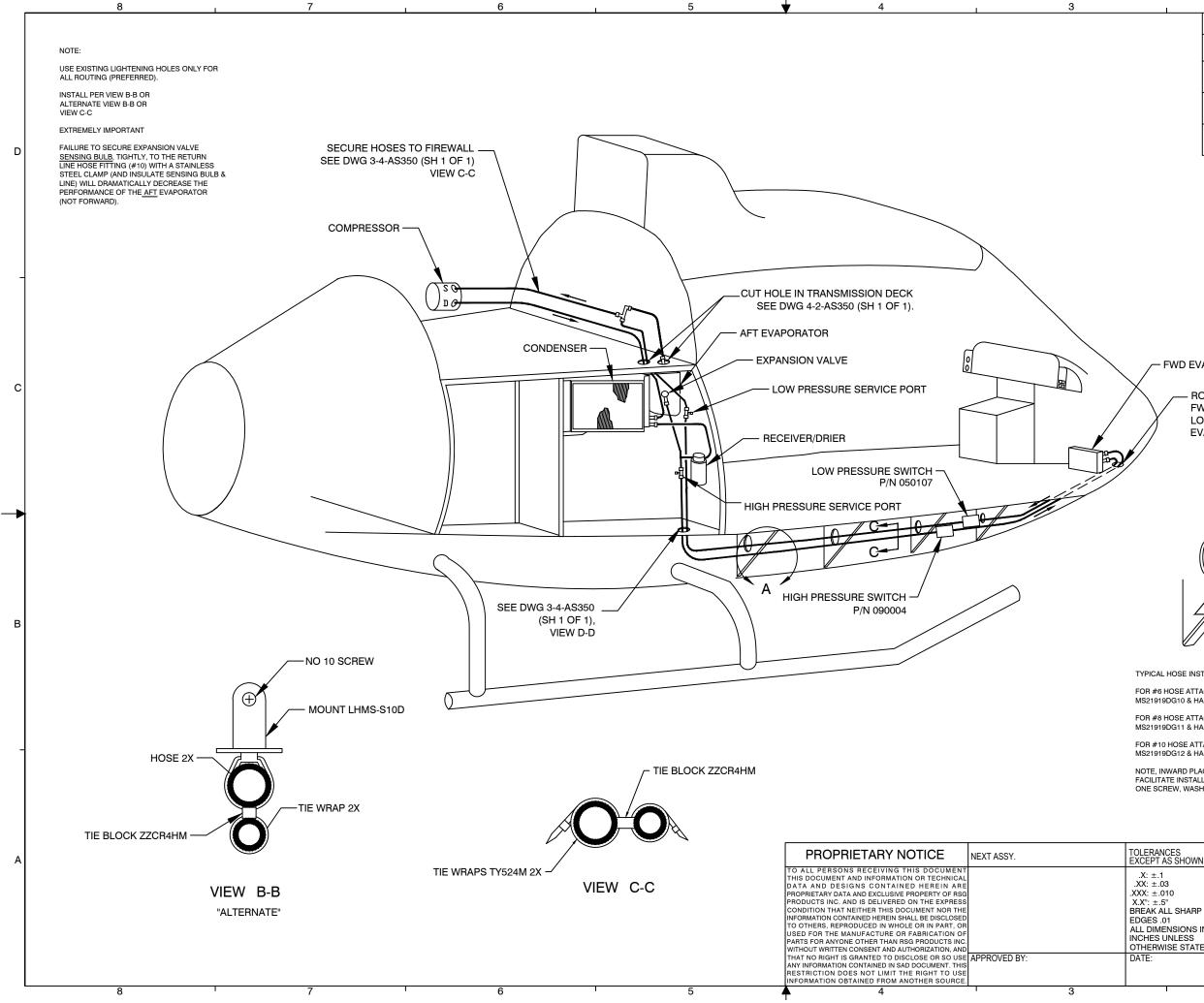
			ECO No. 1141	SHT 1 OF 1
		CHANGE	DWG NO. 3-4-AS350	REV D
	PRODUCTS INC.		DWG No.	REV
			DWG No.	REV
CHANGE	CLASS: D CHG. PARTS NOT AFFECTED 🗌 N	ON-INTERCHANGEABLE PARTS	REF. STC No.	
	HANGEABLE PARTS	THER	SH3509SW	
	N-WORK STOCK DISPOSITION: D CHG. PARTS NOT AFFECTED 🗌 RE		EFFECTIVITY:	IMITED UNITS SPECIFIED
		THER BREAK IN AT NEXT BUILD	ALL UNITS MFG'D AFTER THIS DATE	
	CRIPTION OF CHANGE: ALLATION. ADD BUBBLE		AD4 IN VIEW D-D FOR DOUBI ITEM 22 QTY 12.	_ER
WAS	•	VIEW D-D		
		VIEW LOOKING DOW	<u>/N</u>	
		Г		
	CUT HOLE	_	+	
	THRU FLOO	1	FWD	
	INSTALL DO LINE W/CA	DUBLER.		
	AND SEAL OR PT-1			
	DOUBLER P/N 260369			
IS:		VIEW D-D		
		VIEW LOOKING DOW	<u>/N</u>	
		Γ		
	CUT HOLE THRU FLOO	DR.		
	INSTALL D	ILL TO DOUBLER.	FWD	
	RIVETS MS LINE W/CA AND SEAL	TERPILLER		
	OR PT-1))	
	DOUBLER P/N 260369		<u>)</u>	
	× . : CRIPTION OF CHANGE			
	12 22 MS20470AI			
	QTY ITEM PART NUM	BER DESCRIPTION		
	RKS: MINOR CHANGE		ENGINEERING REVI SIGNATURE STA	
A STATE STORE SOUTH AND	ected note in view D- Co Cancels eco 1119		MRI MRI	
		•	Sy the QA	22 8/2/2022
			REAL PO	16 8/7 2022
			INCORPORATION STA	
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RSG Products Form 33.21 Rev. A 9/19/2011

			ECO No. 1163	SHT] OF]		
		CHANGE	DWG NO. 3-4-AS3	50 REV D		
	PRODUCTS INC.		DWG No.	REV		
CHANGE	CLASS:		DWG No.	REV		
	D CHG. PARTS NOT AFFECTED D NO HANGEABLE PARTS D O	ON-INTERCHANGEABLE PARTS THER	REF. STC No. SH3509S	SW I		
	N-WORK STOCK DISPOSITION: D CHG. PARTS NOT AFFECTED RE EXISTING STOCK	-work existing stock Ther <u>break in at next</u> build	EFFECTIVITY:			
	CRIPTION OF CHANGE: E ALLATION. ONLY SHOWI			OR HOSE		
WAS	WAS: ATTACH P/N 04-130-21-107-01 BRACKET TO WALL & SECURE HOSES AS REQO. LOCATE FOR BEST FIT. SEE VIEW B-B ON DWG. 3-14-AS305 FOR HOSE CLAMP MS21919WDG11 FOR #6 HOSE AND MS21919WDG12 FOR #10 HOSE UTEW LOCKING FWD. AT STA. 115.01					
IS:						
ATTACH P/N 04-130-21-107-01 BRACKET TO WALL & SECURE HOSES AS RECO. LOCATE FOR BEST FIT. SEE VIEW D-B ON DWG. 3-14-AS350 DOB 3-15-AS350 FOR HOSE CLAMP DETAIL. USE HOSE CLAMP MS21919WDG11 FOR #8 HOSE AND MS21919WDG12 FOR #10 HOSE USE 0 HOSE CLAMP DETAIL. TRANSMISSION VIEW C-C VIEW LOOKING FWD. AT STA. 115.01						
10 1001 1000 No. 1000 No.	RKS: MINOR CHANGE.		ENGINEE SIGNATURE	RING REVIEW BOARD		
In the second second second	dwg 3-15-AS350 to no co cancels eco 1142			MRB04 8/17/2022		
		-	Sy fr	QA22 8/17/2022		
			KAAA	P016 8/17/2022		
				ATION STATUS		

RSG Products Form 33.21 Rev. A 9/19/2011

			ECO No. 1173	SHT] OF]
		CHANGE	DWG NO. 3-4-AS35	50 REV D
	PRODUCTS INC.	ORDER	DWG No.	REV
CHANGE	CLASS:	RDER	DWG No.	REV
	CHG. PARTS NOT AFFECTED	ON-INTERCHANGEABLE PARTS	REF. STC NO. SH3509S	SW
EXISTING/I	N-WORK STOCK DISPOSITION:		EFFECTIVITY:	
	CHG. PARTS NOT AFFECTED RE	-work existing stock ^{THER} <u>break in at next</u> build		
	RIPTION OF CHANGE: / RACKET P/N 04-130-21-			
WAS	ATTACH P/N 04-130-21-107 TO WALL & SECURE HOSE LOCATE FOR BEST FIT. SE ON DWG. 3-14-AS350 FOR DETAIL. USE HOSE CLAMP MS21919WDG11 FOR #8 H MS21919WDG12 FOR #10 J	S AS REQ'D. E VIEW B-B HOSE CLAMP OSE AND		
VIEW C-C VIEW LOOKING FWD. AT STA. 115.01				
IS:				
OPTIONAL: ATTACH P/N 04-130-21-107-01 BRACKET TO WALL & SECURE HOSES AS REQD. LOCATE FOR BEST FIT. SEE VIEW B-B ON DWG, 3-14-ASS50 FOR HOSE CLAMP DETAIL. USE HOSE CLAMP MS21919WDG12 FOR #10 HOSE MS21919WDG12 FOR #10 HOSE TRANSMISSION VIEW C-C VIEW LOOKING FWD. AT STA, 115.01				
				RING REVIEW BOARD
	RKS: MINOR CHANGE. TE NOTE FOR VIEW C-C.		SIGNATURE	STAMP DATE
UPDAI	E NOTE FOR VIEW C-C.		Ath	MRB04 9/26/2022
			Sy Am	- OA22 9/26/2022
			KAMA	P016 9/26/2022
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REVISION RECORD					
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	A	06/05/02	CONVERTED TO AUTOCAD.		
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	с	9/1/14	CHANGED TITLE BLOCK AND REVISION	I BLOCK.	AJC
AN3-4A BOLT OR AN525-10R10 SCREW AN960-10 WASHER MS21044-N3 NUT VIEW B-B MS21044-N3 NUT VIEW B-B MS2104-N3 NUT VIEW B-B NA VIEW B					
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& HA ATTA & HA E ATT & HA O PLA STAL	ACH WITH AI ACH WITH AI ARDWARE A: ACH WITH J ARDWARE A: CEMENT OF LATION USII HER, & NUT	S SHOWN DEL CLAM S SHOWN ADEL CLAM S SHOWN = CLAMPS NG ONLY	p IP		-
				UCTS II SERVICES GROUP CO	

PLUMBING ROUTING ALL DIMENSIONS IN INCHES UNLESS OTHERWISE STATED SCALE: SHEET: N/A 1 OF 1 DRAWN BY: REV.: C DATE: MAH 11/01/99 APPLICATION: DWG. NO .: 3-14-AS350 AS350

RSG Products Inc. PAPERWORK – AS350 Air Conditioning

Step 11

Paperwork



JC. TITLE: Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4		DATE: 01/19/2022	DOC No.: IFSE-0007	rev: F	PAGE: 97 of 99
	IC.	Air Conditioning Syste			

APPENDIX A Weight and Balance

PERTAINS TO KIT #350-00-011

ITEM	WEIGHT	ARM	MOMENT
Forward Evaporator Assembly	10.0	19.00	190.00
Forward Air Outlets	4.0	31.32	125.28
Aft Evaporator and Return Air	9.0	120.00	1080.90
Aft Evaporator Blower	6.0	120.85	725.10
Condenser Coil and Mount	20.0	133.80	2676.00
Condenser Blower and Mount	8.0	148.60	1188.80
Compressor and Mount	12.0	147.80	1773.60
Electrical Relay Panes	4.0	153.70	614.80
Refrigerant, Hoses and Fittings	6.0	76.90	461.40
Sub Total: (Air Conditioner)	79.0	111.85	8835.88



United States of America Department of Transportation Federal Aviation Administration Supplemental Type Certificate

Number: SH3509SW

This certificate issued to:

RSG Products Inc. 440 West Lane Suite 100 Saginaw TX, 76131

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of <u>27</u> of <u>Federal Aviation Regulations</u>

Original Product		Make:	Airbus Helicopters
Type Certificate Number:	H9EU	Model:	A\$350 B, B1, B2, B3, BA, C, D, D1

Description of Type Design Change:

todel: AS350 B, B1, B2, B3, BA, C, D, D1; EC130B4

Installation of a Single and Dual Condenser Blower Air Conditioning System in accordance with Integrated Flight Systems (IFS) Master Drawing List (MDL), Document No. DL-9 (Vapor Cycle Air Conditioning System with Belt Driven Compressor Utilizing Refrigerant R134a), Rev. T, dated 09/01/2014, or later FAA approved revision.

(See continuation sheet 3 of 3)

Limitations and Conditions:

The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application	: September 10, 1984	Date Reissued:	April 30, 1991; August 22, 2001; October 23, 2008; August 26, 2011; November 29, 2021
Date of Issuance:	September 20, 1985	Date Amended:	February 11, 1999; February 9, 2009; February 23, 2009; November 5, 2010; September 14, 2015

By Direction of the Administrator

SARAH F COX Digitally signed by SARAH F COX Date: 2021.12.06 08:09:25 -06:00

Signature: Jim Grigg Title: Manager, Fort Worth ACO Branch Compliance & Airworthiness Division Aircraft Certification Service

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



United States of America Department of Transportation Federal Aviation Administration Supplemental Type Certificate

Number: SH3509SW

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number: ______

To (Name and address of transferee):

From (Name and address of grantor):

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor:

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



United States of America Department of Transportation Federal Aviation Administration Supplemental Type Certificate

(Continuation Sheet)

Number: SH3509SW

Date of Issuance: September 20, 1985 Date Reissued: November 29, 2021

Description of Type Design Change

For Single Condenser Configurations the following FAA Approved Flight Manual Supplements (FMSs) and revisions, or later FAA approved revisions, are required accordingly:

AS350B, C, D, D1: FMS 19-350-21-002-011, Rev. D, dated 11/17/2014. AS350B1: FMS 19-350-21-004-011, Rev. C, dated 11/17/2014. AS350B2: FMS 19-350-21-006-011, Rev. B, dated 11/17/2014. AS350B3: FMS 19-350-21-008-011, Rev. B, dated 11/17/2014. AS350BA: FMS 19-350-21-010-011, Rev. B, dated 11/17/2014. EC130B4: FMS dated 2/6/04.

For Dual Condenser Configurations the following FAA approved FMSs and revisions, or later FAA approved revisions, are required accordingly: AS350B, C, D, D1: FMS 19-350-21-001-031, Rev. D, dated 11/17/2014. AS350B1: FMS 19-350-21-003-031, Rev. C, dated 11/17/2014. AS350B2: FMS 19-350-21-005-031, Rev. B, dated 11/17/2014. AS350B3: FMS 19-350-21-007-031, Rev. B, dated 11/17/2014. AS350BA: FMS 19-350-21-009-031, Rev. B, dated 08/18/2015.

Instructions for Continued Airworthiness, IFS Document No. IFSE-0007, Rev. C, dated 8/12/2010, or later revision is required.

-----END-----

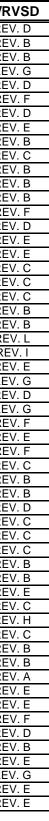
Any alteration of this certificate and/or the Type Certificate Data Sheet is punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with Title 14 of the Code of Federal Regulations, part 21, section 21,47 (14 CFR 21,47). A transferr must be endorsed as provided on the reverse hereof. A Type Certificate holder who allows a person to use the Type Certificate to manufacture a new aircraft, aircraft engine, or propeller must provide that person with a written licensing agreement acceptable to the FAA. (Ref. 14 CFR 21,55).



PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE	REVISION	DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
1-0-AS350	AIR CONDITIONING CONFIGURATION CONTROL	2	01/19/22	D	AS 350	Х		В	TO REV.
1-0-EC130	AIR CONDITIONING CONFIGURATION CONTROL	1	09/01/14	В	EC 130 B4		Х	В	TO REV.
1-00-EC130	CONFIGURATION AND ADD OPTIONS	1	09/01/14	В	EC 130 B4		Х	В	TO REV.
1-1-AS350	AIR CONDITIONING OVERVIEW	1	09/01/14	G	CORPORATE VERSION	Х		В	TO REV.
1-2-AS350	AIR CONDITIONING OVERVIEW	1	09/01/14	D	EMS-2 VERSION	Х		В	TO REV.
1-3-AS350	AIR CONDITIONING OVERVIEW	1	01/19/22	F	ECL TOUR-2 VERSION	Х		В	TO REV.
1-4-AS350	AIR CONDITIONING OVERVIEW	1	09/01/14	D	ECL TOUR-1 VERSION	Х		В	TO REV.
1-5-AS350	AIR CONDITIONING OVERVIEW	1	01/19/22	E	AFT MOUNTED CONDENSER	Х		В	TO REV.
1-6-AS350	AIR CONDITIONING OVERVIEW	1	09/01/14	В	LAW ENFORCEMENT	Х		В	TO REV.
1-7-AS350	AIR CONDITIONING OVERVIEW	1	01/19/22	С	ECL TOUR 1	Х		В	TO REV.
1-8-AS350	AIR CONDITIONING OVERVIEW	1	09/01/14	В	EMS 1	Х		В	TO REV.
1-1-EC130	AIR CONDITIONING OVERVIEW	1	09/01/14	В	EC130		Х	В	TO REV.
2-00-AS350	ELECTRICAL ROUTING	1	09/01/14	В	AS350	Х		В	TO REV.
2-1-AS350	ELECTRICAL ROUTING	1	09/01/14	F	SINGLE CONDENSER BLOWER	Х		В	TO REV.
2-2-AS350	ELECTRICAL ROUTING	1	09/01/14	D	EMS-2 VERSION	Х		В	TO REV.
2-3-AS350	ELECTRICAL ROUTING	1	01/19/22	E	SINGLE COND/ECL/TOUR	Х		В	TO REV.
2-4-AS350	ELECTRICAL ROUTING	1	01/19/22	E	DUAL AFT/ECL TOUR	Х		В	TO REV.
2-5-A\$350	ELECTRICAL ROUTING	1	09/01/14	D	DUAL COND. BLOWER/AFT MOUNT	Х		В	TO REV.
2-6-AS350	ELECTRICAL ROUTING	1	09/01/14	С	DUAL COND/SIDE MOUNT	Х		В	TO REV.
2-8-AS350	ELECTRICAL ROUTING	1	09/01/14	С	CORP, TOUR 2, EMS AND LAW ENF.	Х		В	TO REV.
2-9-AS350	ELECTRICAL ROUTING	1	09/01/14	В	EMS/ LAW ENFORCEMENT	Х		В	TO REV.
2-10-AS350	ELECTRICAL ROUTING	1	09/01/14	В	EMS-1	Х		В	TO REV.
2-11-AS350	ELECTRICAL DIAGRAM	1	01/19/22	L	ADDED EMI-RFI FILTERS	Х		В	TO REV.
2-13-AS350	ELECTRICAL DIAGRAM	1	01/19/22		ADDED EMI-RFI FILTER	Х		В	TO REV
2-14-AS350	ELECTRICAL DIAGRAM	1	01/19/22	E	AFT MOUNTED/ECL TOUR	Х		В	TO REV.
2-16-AS350	ELECTRICAL DIAGRAM	1	01/19/22	G	DUAL COND. BLOWER/AFT MOUNT	Х		В	TO REV.
2-19-AS350	ELECTRICAL ROUTING	1	01/19/22	D	ECL TOUR 2	Х		В	TO REV.
2-21-AS350	ELECTRICAL DIAGRAM	1	01/19/22	G	SINGLE COND BLOWER	Х		В	TO REV.
2-23-A\$350	ELECTRICAL DIAGRAM	1	01/19/22	F	SINGLE COND/ECL TOUR 1	Х		В	TO REV.
2-24-AS350	ELECTRICAL DIAGRAM	1	01/19/22	E	DUAL AFT/ECL TOUR 1	Х		В	TO REV.
2-25-AS350	ELECTRICAL DIAGRAM	1	01/19/22	F	DUAL COND BLOWER	Х		В	TO REV.
2-29-AS350	ELECTRICAL ROUTING	1	01/19/22	С	ECL TOUR 2	Х		В	TO REV.
2-1-EC130	ELECTRICAL ROUTING	1	09/01/14	В	EC130		Х	В	TO REV.
2-3-EC130	ELECTRICAL DIAGRAM	1	09/01/14	В	EC130		Х	В	TO REV.
3-4-AS350	PLUMBING DIAGRAM	1	01/19/22	D	AFT EVAP/SIDE MOUNT	Х		В	TO REV.
3-5-AS350	PLUMBING DIAGRAM	1	09/01/14	С	ALT AFT EVAP/AFT MOUNT	Х		В	TO REV.
3-14-AS350	PLUMBING ROUTING	1	09/01/14	С	AFT EVAP/SIDE MOUNT	Х		В	TO REV.
3-15-AS350	PLUMBING DIAGRAM	1	09/01/14	С	ALT AFT EVAP/AFT MOUNT	Х		В	TO REV.
3-1-EC130	PLUMBING DIAGRAM	1	09/01/14	В	PLUMBING DIAGRAM		Х	В	TO REV.
3-2-EC130	PLUMBING ROUTING	1	09/01/14	В	PLUMBING DIAGRAM		Х	В	TO REV.
4-3-AS350	AFT EVAP INSTALL	2	01/19/22		AFT EVAPORATOR	Х		В	TO REV.
4-13-AS350	AFT EVAP INSTALL	1	09/01/14		AFT EVAPORATOR INSTALL	Х		В	TO REV.
4-21-AS350	FWD EVAP INSTALL	1	01/19/22		FWD EVAPORATOR INSTALL	Х		В	TO REV.
4-1-EC130	AFT EVAP INSTALL	2	09/01/14		AFT EVAPORATOR INSTALL		Х	В	TO REV.
4-2-EC130	AFT EVAP INSTALL	1	09/01/14		AFT EVAPORATOR INSTALL		Х	В	TO REV.
4-3-EC130	FWD EVAP INSTALL	2	09/01/14	B	FWD EVAPORATOR INSTALL		X	В	TO REV.
4-4-EC130	FWD DRAIN HOSE INSTALL	1	09/01/14	A	FWD DRAIN HOSE INSTALL		Х	В	TO REV.
5-1-AS350	AIR DISTRIBUTION	1	09/01/14		CORPORATE	Х		В	TO REV.
5-2-AS350	AIR DISTRIBUTION	1	09/01/14	E	EMS 2	Х		В	TO REV.
5-4-AS350	AIR DISTRIBUTION	1	01/19/22	F	ECL TOUR VERSION	Х		В	TO REV.
5-5-AS350	AIR DISTRIBUTION	1	09/01/14	D	ECL TOUR 2	Х		В	TO REV.
5-6-AS350	AIR DISTRIBUTION	1	09/01/14	В	EMS-1	Х		В	TO REV.
5-9-AS350	AIR CONDITIONING OVERVIEW	1	09/01/14	E	LAW ENFORCEMENT	Х		В	TO REV.
5-10-AS350	AIR CONDITIONING OVERVIEW	1	01/19/22	G	EMS-1	Х		В	TO REV.
5-11-AS350	AIR DISTRIBUTION	1	09/01/14	E	EMS-2/LAW ENFORCEMENT	Х		В	TO REV.
5-12-AS350	AIR DISTRIBUTION	1	09/01/14	E	MULTIPLE	Х	1	В	TO REV.

Drawing List DL-9 Rev U

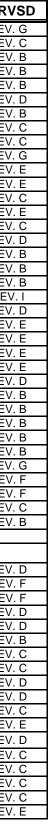




PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE		DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
5-21-AS350	AIR DISTRIBUTION	1	09/01/14	G	EMS/ LAW ENFORCEMENT	Х		В	TO REV.
5-22-AS350	AIR DISTRIBUTION	1	09/01/14	C	ECL TOUR	X		В	TO REV.
5-24-AS350	AIR DISTRIBUTION	1	09/01/14	B	LAW ENFORCEMENT	X		В	TO REV.
5-25-AS350	AIR DISTRIBUTION	1	09/01/14	В	ECL TOUR 1	Х		В	TO REV.
5-26-AS350	AIR DISTRIBUTION	1	01/19/22	В	AEC BASIC CONFIGURATION	Х		В	TO REV.
5-1-EC130	AIR DISTRIBUTION	1	01/19/22	D	EC130		Х	В	TO REV.
5-2-EC130	AIR DISTRIBUTION	1	09/01/14	В	EC130		Х	В	TO REV.
5-3-EC130	AIR DISTRIBUTION	1	09/01/14	С	EC130		Х	В	TO REV.
5-4-EC130	A/C INSTURMENTATION CONFIGURATIONS	1	01/19/22	С	EC 130 B4		Х	В	TO REV.
6-2-AS350	COMPRESSOR INSTALL	1	01/19/22	G	HP COMPRESSOR	Х		В	TO REV.
6-3-AS350	COMPRESSOR INSTALL	1	01/19/22	E	HP COMPRESSOR NEWER B3,B4	Х		В	TO REV.
6-12-AS350	COMPRESSOR INSTALL	1	09/01/14	E	HP COMPRESSOR	Х		В	TO REV.
6-13-AS350	COMPRESSOR INSTALL	1	09/01/14	C	HP COMPRESSOR NEWER B3,B4	X	Х	В	TO REV.
6-21-AS350	COMPRESSOR INSTALL	1	09/01/14	E	BRACKET INSTALLATION	X		В	TO REV.
6-22-AS350	COMPRESSOR INSTALL	1	09/01/14	C	HP COMPRESSOR NEWER B3,B4	X	Х	B	TO REV.
6-1-EC130	COMPRESSOR INSTALLATION	1	01/19/22	D	COMPRESSOR INSTALLATION		X	B	TO REV.
6-2-EC130	COMPRESSOR INSTALLATION	1	09/01/14	B	COMPRESSOR INSTALLATION		X	B	TO REV.
6-3-EC130	COMPRESSOR INSTALLATION	1	09/01/14	B	COMPRESSOR INSTALLATION	_	X	B	TO REV.
6-5-EC130	BELT TENSION	1	09/01/14	B	EC 130 B4	-	X	B	TO REV.
7-2-AS350	CONDENSER INSTALL	2	01/19/22		ADDED BLOWERS	Х	~ ~	B	TO REV
7-11-AS350	CONDENSER INSTALL	1	09/01/14	D	RIGHT SIDE BAGGAGE	X		B	TO REV.
7-11-A0350	CONDENSER INSTALL	1	01/19/22	E	AFT CONDENSER INSTALL	X		В	TO REV
7-23-AS350	LH AIR EXIT DOUBLER INSTALL	1	09/01/14	F	AFT MOUNTED CONDENSER	X		В	TO REV
7-24-AS350	RH AIR EXIT DOUBLER INSTALL	1	09/01/14	E	AFT MOUNTED CONDENSER	X		B	TO REV.
7-25-AS350	INSTALL AIR INLET DOUBLER LH	1	01/19/22	E	AFT MOUNTED CONDENSER	X		В	TO REV.
7-26-AS350	INSTALL AIR INLET DOUBLER RH	1	09/01/14	D	AFT MOUNTED CONDENSER	X		В	TO REV.
7-28-AS350	R.H. AIR EXIT DOUBLER INSTALL	1	01/19/22	B	AFT MOUNTED CONDENSER	X		B	TO REV.
7-29-AS350	L.H. AIR EXIT DOUBLER INSTALL	1	01/19/22	B	AFT MOUNTED CONDENSER	X		B	TO REV
7-1-EC130	AFT CONDENSER INSTALLATION	1	09/01/14	B	AFT CONDENSER INSTALL		Х	B	TO REV.
7-1-EC130	AFT CONDENSER EXHAUST INSTALLATION	1	09/01/14	B	AFT CONDENSER INSTALL	-	X	B	TO REV.
7-3-EC130	INSTALLATION AIR INLET DOUBLER	1	09/01/14	B	AIR INLET DOUBLER	-	X	B	TO REV.
8-2-AS350	BAGGAGE COMPARTMENT MOD.	1 OF 2	01/19/22	G	AIR INTAKE	Х	^	B	TO REV.
8-2-AS350 8-2-AS350	BAGGAGE COMPARTMENT MOD.	2 OF 2	01/19/22	F G	AIR INTAKE	X		B	TO REV.
8-11-AS350	BAGGAGE COMPARTMENT MOD.	1	01/19/22	F F	EMS/ LAW ENFORCEMENT	X		B	TO REV.
8-1-EC130	ELECTRIC BOX SHELF	1	09/01/14	C	EC130	^	Х	B	TO REV.
	ELECT. BOX VERTICAL INSTALLATION	1		B	AS 350, EC 130 B4	v	X	B	
8-2-EC130	ELECT. BOX VERTICAL INSTALLATION	1	09/01/14	В	AS 350, EC 130 B4	Х	^	В	TO REV.
		MA	NUFACTURE DR					11	
020011-"O"	CONDENSOR COIL	1	09/01/14	D			Х	В	TO REV.
020024-"O"-1	CONDENSOR COIL	1	01/19/22	F		Х		B	TO REV.
020027-"O"-4	EVAPORATOR COIL	1	01/19/22	F		X	Х	B	TO REV.
020031-"O"-1	EVAPORATOR COIL	1	01/19/22	D		X	X	B	TO REV.
020044-"O"	CONDENSOR COIL	1	01/19/22	D		X		B	TO REV.
030011	LOUVER (MOD)	1	09/01/14	B		X		B	TO REV
030021-1	PLASTIC WEMAC	1	01/19/22	C		X	1	B	TO REV.
030021-2	WEMAC MODIFIED	1	09/01/14	C		X	1	B	TO REV.
040001-1	BLOWER HOUSING	1	09/01/14	D		X	†	B	TO REV.
040002-1	MOTOR COVER PLATE	1	09/01/14	D		X	1	В	TO REV.
040002-1	BLOWER COVER MODIFICATION	1	09/01/14	C		X	1	B	TO REV.
040002-4	VENTURI RING	1	01/19/22	E		X	1	B	TO REV.
040003-1	VENTURI RING	1	09/01/14	D		X	1	B	TO REV.
		-					~		
050007-1	SWITCH BUTTON "A/C-OFF-FAN"	1	09/01/14	C		X	X	B	TO REV.
050007-3			09/01/14	C		X	X	B	TO REV.
050007-4		1	09/01/14	C		X	Х	B	TO REV.
050052-1		1	09/01/14	C		X	× ×	B	TO REV.
050084-6	7" VANE AXIAL BLOWER ASSEMBLY	3	09/01/14	E		Х	Х	В	TO REV.

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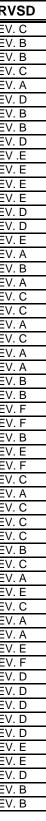




PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE		DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
050143	5" VANE AXIAL BLOWER ASSEMBLY	1	09/01/14	С		Х	Х	В	TO REV.
050145	MOTOR 28 VDC	1	09/01/14	В		Х	Х	В	TO REV.
070069	STANDOFF	1	09/01/14	В		Х	Х	В	TO REV.
080007	EVAPORATOR COVER SCREEN	1	09/01/14	С			Х	В	TO REV.
080008	FRESH AIR SCREEN	1	09/01/14	A			Х	В	TO REV.
080010	AFT RETURN AIR SCREEN	1	09/01/14	D			Х	В	TO REV.
080011	CONDENSER EXHAUST SCREEN	1	09/01/14	В			Х	В	TO REV.
080012	CONDENSER COVER SCREEN	1	09/01/14	В			Х	В	TO REV.
080020	SCREEN, CONDENSER INLET	1	09/01/14	D		Х		В	TO REV.
080021	SCREEN, CONDENSER EXHAUST	1	09/01/14	E		Х		В	TO REV
080022	RETURN AIR SCREEN	1	09/01/14	E		Х		В	TO REV.
080022-1	RETURN AIR SCREEN	1	09/01/14	E		X		В	TO REV.
080024	RETURN AIR SCREEN FWD. EVAP	1	09/01/14	E		X		В	TO REV.
080035	SCREEN, CONDENSER INLET	1	09/01/14	D		X		В	TO REV.
080039		1	09/01/14	D		X		В	TO REV.
080040		1	09/01/14	E		Х	V	B	TO REV. TO REV.
110008 110009	AFT RETURN AIR SCREEN DOUBLER SERVO COVER (FRESH AIR)	1	09/01/14 09/01/14	A B			X	В	TO REV.
110009	CONDENSER COVER	1					X	B	
110010	INNER EXHAUST RING CONDENSER	1	09/01/14 01/19/22	A C			X	B	TO REV. TO REV.
110012	OUTER EXHAUST RING CONDENSER	1	01/19/22	C		1	X	B	TO REV.
110012	NIPPLE (FRESH AIR)	1	09/01/14	A			X	B	TO REV.
110015	RETURN AIR DUCT	1	09/01/14	C			X	B	TO REV.
110016	AIR OUTLET ADAPTER LOWER	1	09/01/14	A			X	B	TO REV.
110017	AIR OUTLET ADAPTER UPPER	1	09/01/14	A			X	В	TO REV.
110018	INNER CLOSEOUT SKIRT	1	01/19/22	В			X	B	TO REV.
110019	OUTER CLOSEOUT SKIRT	1	01/19/22	B			X	B	TO REV.
120019	PLACARD, SWITCH	2	09/01/14	F		Х		В	TO REV.
120019-1	PLACARD AFT CABIN	1	09/01/14	F		Х		В	TO REV.
120020	PLACARD DUAL ROCKER SWITCH	1	09/01/14	В		Х		В	TO REV.
120021	PLACARD	1	09/01/14	E		Х		В	TO REV.
120024	PLACARD, AC MASTER	1	09/01/14	F		Х		В	TO REV.
120025	CIRCUIT BREAKER PLACARD	1	09/01/14	С		Х		В	TO REV.
120085-1	A/C MASTER PLACARD	1	09/01/14	A		Х		В	TO REV.
120087	BATTERY COVER DECAL	1	09/01/14	С		Х		В	TO REV.
120104	AIR DUCT CLOSURE DECAL	1	09/01/14	С		Х		В	TO REV.
120105	SWITCH PLACARD	1	09/01/14	С		Х		В	TO REV.
120105-1	SWITCH PLACARD	1	09/01/14	В		Х	Х	В	TO REV.
120106	PLACARD, CIRCUIT BREAKER	1	09/01/14	С		Х	Х	В	TO REV.
120106-1	PLACARD, CIRCUIT BREAKER	1	09/01/14	A			Х	В	TO REV.
120107	PLACARD, CIRCUIT BREAKER	1	09/01/14	E		Х		В	TO REV.
120117	REFRIGERANT LABEL	1	09/01/14	C		Х	X	В	TO REV.
120152		1	09/01/14	A			X	В	TO REV.
120214	FREON SERVICING STICKER	1	09/01/14	A		X	Х	В	TO REV.
250022	FWD. LOUVER HOUSING R.H. OUTER	1	09/01/14	E		X	l	B	TO REV.
250022-1	FWD. LOUVER HOUSING R.H. INNER	1	01/19/22	F		X		В	TO REV.
250022-2	FWD. LOUVER HOUSING R.H. INNER	1	09/01/14	D		X		В	TO REV.
250036	FWD. LOUVER HOUSING L.H. OUTER	1	09/01/14	D		X		B	TO REV.
250037	FWD. LOUVER HOUSING L.H. INNER	1	09/01/14 09/01/14	D		X		B	TO REV. TO REV.
250148	SPACER, AIR DUCT CLOSURE CHANNEL	1		D		X		B	
250148-1 250149	SPACER AIR DUCT CLOSURE CHANNEL RETURN AIR DUCT	1	09/01/14	D E	l	X		B	TO REV.
250149	FWD. EVAPORATOR WYE INNER	1	09/01/14 09/01/14	E		X X		В	TO REV. TO REV.
250157	FWD. EVAPORATOR WYE INNER	1	09/01/14	D		X		B	TO REV.
250158	AFT EVAPORATOR FAN ELBOW, INNER	1	09/01/14					B	TO REV.
250160	· · ·	1	09/01/14	B		X		В	TO REV.
200101	AFT EVAPORATOR FAN ELBOW, OUTER	1	09/01/14	В		Х		Б	TU REV.

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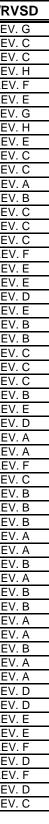




PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE		DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
250164	ELECTRIACL BOX COVER	1	09/01/14	G		Х	Х	В	TO REV.
250165	AFT EVAP. HOUSING	1	09/01/14	C		X		В	TO REV
250165-1	AFT EVAP. HOUSING	1	09/01/14	C		Х	Х	В	TO REV.
250166	RETURN AIR CONNECTOR	1	01/19/22	H		Х		В	TO REV.
250168	MOTOR SHROUD	1	09/01/14	F		Х		В	TO REV
250168-1	MOTOR SHROUD	1	09/01/14	E		Х		В	TO REV
250174	FWD. EVAP. ENCLOSURE	1	01/19/22	G		Х		В	TO REV.
250175	AFT EVAP HOUSING DRAIN	1	01/19/22	H		Х	Х	В	TO REV.
250176-1	FWD.EVAP. FWD. ENCLOSURE	1	09/01/14	E		Х		В	TO REV
250176-2	FEW. EVAP. REMOVABLE COVER	1	09/01/14	С		Х		В	TO REV.
250188	CONDENSER COVER, FORWARD	1	09/01/14	С		Х		В	TO REV.
250188-1	CONDENSER HOUSING CLOSEOUT	1	09/01/14	Α		Х		В	TO REV
250239-1	SCREEN RETAINER COND. EXHAUST	1	09/01/14	В		Х		В	TO REV
250239-2	SCREEN RETAINER COND. EXHAUST	1	09/01/14	С		Х		В	TO REV
250254	AIR TUBE	1	09/01/14	C		Х		В	TO REV.
250254-1	AIR TUBE	1	09/01/14	С		Х		В	TO REV.
250269	COND. HOUSING	1	01/19/22	F		Х		В	TO REV
250272	AFT EVAP. ELBOW / INNER	1	09/01/14	E		Х		В	TO REV
250273	AFT EVAP. ELBOW / OUTER	1	09/01/14	E		Х		В	TO REV
250292	CONDENSER AIR INTAKE	1	01/19/22	D		Х		В	TO REV.
250299	VENT ADAPTER	1	09/01/14	E		Х		В	TO REV
250301	AFT BAGGAGE CLOSEOUT PANEL	1	09/01/14	В		Х		В	TO REV
250311	EVAP. MOTOR SHIM PLATE	1	09/01/14	В		Х		В	TO REV
250314	INNER COVER	1	01/19/22	С		Х		В	TO REV.
250316-1	AIR OUTLET HOUSING, R.H.	1	09/01/14	С		Х		В	TO REV.
250319-1	AIR TUBE	1	09/01/14	С		Х	Х	В	TO REV.
250324	AIR EXIT COLLAR	1	09/01/14	В		Х		В	TO REV
250355	AFT EVAP HOUSING	1	09/01/14	E			Х	В	TO REV
250370	FILLER	1	09/01/14	D		Х	Х	В	TO REV
250393	FWD EVAPORATOR ENCLOSURE	1	09/01/14	A			Х	В	TO REV
250394	REMOVABLE COVER	1	09/01/14	Α			Х	В	TO REV
250402	AFT TRANSITION ELBOW	1	09/01/14	F		Х		В	TO REV
250408	RIGHT HAND AIR TUBE	1	09/01/14	С		Х		В	TO REV
250409	LEFT HAND AIR TUBE	1	09/01/14	В		Х		В	TO REV
250431	AIR TUBE	1	09/01/14	В		Х		В	TO REV
250440	AIR DISTRIBUTION MANIFOLD NOZZLE FWD	1	09/01/14	В			Х	В	TO REV
250441	AIR DISTRIBUTION MANIFOLD LOWER	1	09/01/14	Α			Х	В	TO REV
250442	AIR DISTRIBUTION MANIFOLD UPPER	1	09/01/14	Α			Х	В	TO REV
250443	AIR DISTRIBUTION MANIFOLD NOZZLE, REAR	1	09/01/14	В			Х	В	TO REV
250444	CONDENSER EXHAUST TUBE	1	09/01/14	А			Х	В	TO REV
250445	AIR OUTLET LEFT SIDE	1	09/01/14	В			Х	В	TO REV
250446	AIR OULET RIGHT SIDE	1	09/01/14	В			Х	В	TO REV
250447	AIR OUTLET LEFT SIDE	1	09/01/14	A			Х	В	TO REV
250448	AIR OUTLET MOUNT RIGHT SIDE	1	09/01/14	А			Х	В	TO REV
250449	FWD EVAPORATOR HOUSING ASSY	1	09/01/14	В			Х	В	TO REV
250450	EVAP COVER ASSEMBLY ENCLOSURE	1	09/01/14	A			Х	В	TO REV
250458	AIR DISTRIBUTION BAFFLE	1	09/01/14	A			Х	В	TO REV
260002	COND. MTG. ANGLE	1	09/01/14	D		Х		В	TO REV.
260004	COND. MTG. SUPPORT FWD	1	09/01/14	D		Х		В	TO REV.
260005	COND. MTG. SUPPORT SPACER	1	01/19/22	E		Х		В	TO REV
260006	COND. MTG. SUPPORT SPACER	1	01/19/22	E		Х		В	TO REV
260007	COND. MOUNTING SUPPORT AFT	1	09/01/14	F		Х		В	TO REV
260008	COND. MTG. SUPPORT SPACER	1	09/01/14	D		Х		В	TO REV.
260009	COND. MTG. SUPPORT SPACER	1	01/19/22	F		Х		В	TO REV
260020	FAN CHANNEL BASE ANGLE	1	09/01/14	D		Х		В	TO REV
260123-2	MOUNT RECEIVER / DRIER	2	09/01/14	С		Х	Х	В	TO REV

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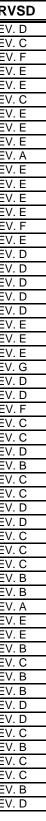




PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE		DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
260148	CONDENSER FAN MOUNT	1	09/01/14	D		X		B	TO REV.
260148-3	CONDENSER FAN MOUNT	1	09/01/14	C		X		В	TO REV.
260216	AIR DUCT CLOSURE CHANNEL	1	09/01/14	F		Х		В	TO REV.
260234	AIR DUCT CLOSURE INSERT	1	09/01/14	E		Х		В	TO REV.
260321	CONDENSER FAN MOUNT RING	1	09/01/14	E		Х		В	TO REV.
260322	DOUBLER, RETURN AIR	1	09/01/14	С		Х		В	TO REV.
260322-1	DOUBLER, RETURN AIR	1	01/19/22	E		Х		В	TO REV.
260322-2	ANGLE	1	01/19/22	E		Х		В	TO REV.
260325	AFT. EVAP. CLOSEOUT, FWD.	1	09/01/14	E		Х	Х	В	TO REV.
260325-1	AFT. EVAP. CLOSEOUT, FWD.	1	09/01/14	A		Х	Х	В	TO REV.
260326	EVAP. CLOSEOUT, AFT.	1	09/01/14	E		Х	Х	В	TO REV.
260327	AFT EVAP. CLOSEOUT INBOARD	1	09/01/14	E		Х	Х	В	TO REV.
260327-1	AFT EVAP. CLOSEOUTOUTBOARD	1	09/01/14	E		Х	Х	В	TO REV.
260328-1	AFT EVAP. FAN DOUBLER	1	01/19/22	E		Х		В	TO REV.
260333	BATTERY COMP. SHELF	1	09/01/14	F		Х		В	TO REV.
260335	BATTERY COMPARTMENT SHELF ANGLE FWD	1	09/01/14	E		X		В	TO REV.
260339	ANGLE BATTERY COVER	1	09/01/14	D		X		В	TO REV.
260343	ELECTRICAL BOX BODY	1	09/01/14	D		X		В	TO REV.
260343-1		1	09/01/14	D		X	X	В	TO REV.
260344 260344-1	ELECTRICAL BOX SHIM ELEC. BOX ANGLE	1	09/01/14 09/01/14	D		X	X	B	TO REV. TO REV.
260344-1	UPPER CLOSEOUT, AFT EVAPORATOR	1	09/01/14	E		X X	X	B	TO REV.
260350	AFT SWITCH BACKING PLATE	1	09/01/14	E		X	^	B	TO REV.
260354	ANGLE, RETURN AIR CONNECTOR	1	09/01/14	E		X		B	TO REV.
260354	HOSE DOUBLER, BAG COMP.	1	09/01/14	G		X		B	TO REV.
260303	FWD. EVAP. ANGLE	1	09/01/14	D		X	1	B	TO REV.
260372	DOUBLER	1	09/01/14	D		X		B	TO REV.
260373-1	DOUBLER	1	09/01/14	F		X	Х	B	TO REV.
260486-1	FWD EVAP SUPPORT VERTICAL	1	09/01/14	C		~~~~	X	B	TO REV.
260862	FILLER	1	09/01/14	C		Х		B	TO REV.
260863	FWD. EVAP. MOUNT	1	09/01/14	D		X		В	TO REV.
260863-1	FWD. EVAP. MOUNT	1	09/01/14	В		Х		В	TO REV.
260915	RING	1	09/01/14	С			Х	В	TO REV.
260947	TURNING VANE	1	09/01/14	С		Х		В	TO REV.
260951	ANGLE	1	01/19/22	D		Х		В	TO REV.
260951-1	ANGLE	1	01/19/22	D		Х		В	TO REV.
260952	CLIP	1	09/01/14	С		Х		В	TO REV.
260953	CLIP	1	09/01/14	С		Х		В	TO REV.
261006	ANGLE	1	09/01/14	С		Х		В	TO REV.
261006-1	ANGLE R.H. LOWER WEMAC MOUNT	1	09/01/14	В		Х		В	TO REV.
261006-2	ANGLE	1	09/01/14	В		Х		В	
261006-3	ANGLE	1	09/01/14	A		Х		В	TO REV.
261007	BUSHING, SD-507	1	01/19/22	E		Х	X	В	TO REV.
261008	BUSHING, SD-507	1	01/19/22	E		Х	Х	В	TO REV.
261012	STRINGER, OUTBOARD	1	09/01/14	В		X	ļ	В	TO REV.
261013		1	09/01/14	С		X		В	TO REV.
261013-2	R/H AIR INLET DOUBLER	1	01/19/22	В		X	}	В	TO REV.
261014	STRAP	1	09/01/14	B		X	v.	В	TO REV.
261071		1	09/01/14	D		X	X	B	TO REV.
261072	CLOSEOUT PANEL DOUBLER	1	09/01/14	D		X	Х	B	TO REV.
261074	PLATE, BACK	1	09/01/14	C		X		B	TO REV.
261075		1	09/01/14 09/01/14	B		X		B	TO REV.
261076		1		C		X		B	TO REV.
261077	ANGLE CLOSEOUT CLOSEOUT, SIDE	•	09/01/14	C	l	X	<u> </u>	_	TO REV.
261078		1	09/01/14	B		X		B	TO REV.
261079	MOTOR MOUNT	1	09/01/14	D		Х	1	В	TO REV.

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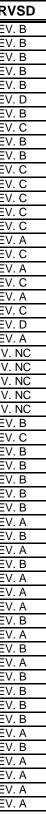




PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE		DRAWING DATE		DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
261080	CHANNEL, SUPPORT, FORWARD		09/01/14	B		X X	LCISOD4	B	TO REV.
261080	CHANNEL, SUPPORT, AFT	1	09/01/14	B		X	ł	B	TO REV.
261082	ANGLE	1	09/01/14	B		X		B	TO REV.
261083	BAFFLE	1	09/01/14	B		X	1	B	TO REV.
261086-1	SWITCH PLATE	1	09/01/14	B		X	Х	B	TO REV.
261086-2	SWITCH PLATE	1	09/01/14	D		X	~	B	TO REV.
261087	ANGLE	1	09/01/14	B		X		B	TO REV.
261089-1	WEMAC MOUNT	1	09/01/14	C		X		B	TO REV.
261094	FILLER STRIP UPPER	1	09/01/14	B		X		B	TO REV.
261095	FILLER STRIP LOWER	1	09/01/14	B		X		В	TO REV.
261096	ANGLE UPPER RH	1	09/01/14	С		Х		В	TO REV.
261097	ANGLE UPPER LH	1	09/01/14	С		Х		В	TO REV.
261098	ANGLE LOWER RH	1	09/01/14	C		Х		В	TO REV.
261099	ANGLE LOWER LH	1	09/01/14	С		Х		В	TO REV.
261100	RH AIR EXIT DOUBLER	1	09/01/14	С		Х		В	TO REV.
261100-1	RH AIR EXIT DOUBLER	2	09/01/14	А		Х		В	TO REV.
261101	LH AIR EXIT DOUBLER	1	09/01/14	С		Х		В	TO REV.
261101-1	LH AIR EXIT DOUBLER	2	09/01/14	А		Х		В	TO REV.
261107	RELAY STRAP	1	09/01/14	С		Х	Х	В	TO REV.
261107-2	RELAY STRAP	1	09/01/14	А			Х	В	TO REV.
261176	FAN BLADE HUB	1	09/01/14	С		Х	Х	В	TO REV.
261299	TRANSITION ELBOW STRAP	1	01/19/22	D		Х		В	TO REV.
261333HP	VENT HOUSING	2	01/19/22	А		Х			TO REV.
261335HP	VENT MOUNT	1	09/01/14	NC		Х			TO REV.
261336HP	BACK PLATE	1	09/01/14	NC		Х			TO REV.
261346HP	MOUNTING PLATE	1	09/01/14	NC		Х			TO REV.
261347HP	RELAY BRACKET	1	09/01/14	NC		Х			TO REV.
261348HP	DZUS RAIL, SWITCH ASSEMBLY	1	09/01/14	NC		Х			TO REV.
261351	CLIP (FRESH AIR DOOR)	1	09/01/14	В			Х	В	TO REV.
261352	HINGE DOOR	1	09/01/14	С			Х	В	TO REV.
261353	SERVO MOUNT	1	09/01/14	В			Х	В	TO REV.
261354	DOOR	1	09/01/14	В			Х	В	TO REV.
261355	FWD EVAP SUPPORT LOWER	1	01/19/22	В			Х	В	TO REV.
261356	FWD EVAP SUPPORT UPPER	1	01/19/22	В			Х	В	TO REV.
261357	FWD EVAP MOUNT SHIM	1	09/01/14	В			Х	В	TO REV.
261358	NUT PLATE STRIP FORWARD EVAPORATOR	1	09/01/14	A			Х	В	TO REV.
261359	DOOR HANDLE	1	09/01/14	В			Х	В	TO REV.
261360	FWD BRACE CONDENSER	1	09/01/14	А			Х	В	TO REV.
261361	AFT BRACE CONDENSER	1	09/01/14	В			Х	В	TO REV.
261362	MOUNT PLATE	1	09/01/14	A			Х	В	TO REV.
261363	FWD EVAP MOUNT PLATE	1	09/01/14	A			Х	В	TO REV.
261364	CONDENSER MOUNT LEFT & RIGHT	1	09/01/14	A			Х	В	TO REV.
261365	SERVO MOUNT PLATE	1	09/01/14	В			Х	В	TO REV.
261366	CONDENSER BODY	1	09/01/14	A			Х	В	TO REV.
261367	CONDENSER ANGLE LEFT	1	09/01/14	В			Х	В	TO REV.
261367-1	CONDENSER ANGLE RIGHT	1	09/01/14	A			Х	В	TO REV.
261368	AFT MANIFOLD BRACKET	1	09/01/14	В			Х	В	TO REV.
261369	AIR VALVE BODY	1	09/01/14	В			Х	В	TO REV.
261370	R.H. FAN DOUBLER	1	09/01/14	В			Х	В	TO REV.
261371	R.H. FAN DOUBLER SHIM	1	09/01/14	В			Х	В	TO REV.
261374	AFT MANIFOLD BRACKET BASE	1	09/01/14	A			Х	В	TO REV.
261375	ELECTRICAL BOX SHELF	1	09/01/14	В			Х	В	TO REV.
261377	AC MASTER PLATE	1	09/01/14	A			Х	В	TO REV.
261511	LH. STRAP	1	09/01/14	A		Х		В	TO REV.
261512	R.H. STRAP	1	09/01/14	A		Х		В	TO REV.
261513	FILLER	1	09/01/14	А		Х		В	TO REV.

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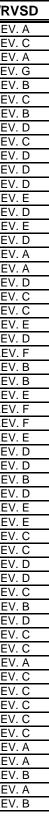




PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE		DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
261585	RESISTOR MOUNT	1	09/01/14	А		Х	Х	В	TO REV
300066	PULLEY MODIFIED	1	09/01/14	С		Х		В	TO REV.
300066-1	PULLEY MODIFIED	1	09/01/14	A		Х		В	TO REV.
300067	COMPRESSOR STAND OFF	1	01/19/22	G		Х		В	TO REV.
300067-1	COMPRESSOR STAND OFF	1	01/19/22	В		Х	Х	В	TO REV.
300068-1	COMPRESSOR MOUNT, ARM	1	09/01/14	С		Х		В	TO REV.
300068-2	ARM, COMPRESSOR MOUNT	1	09/01/14	В		Х	Х	В	TO REV.
300068-3	ARM COMPRESSOR MOUNT	1	09/01/14	D		Х	Х	В	TO REV.
300069-1	ARM, COMP. MT.	1	09/01/14	С		Х	Х	В	TO REV.
300069-2	ARM COMPRESSOR MOUNT	1	09/01/14	D		Х	Х	В	TO REV.
300070-1	GUSSET	1	09/01/14	D		Х	Х	В	TO REV.
300095	COMPRESSOR PIN	1	09/01/14	D		Х	Х	В	TO REV.
300329	SPACER TUBE	1	09/01/14	E		Х	Х	В	TO REV
300355	PULLEY MODIFIED	1	09/01/14	D		Х		В	TO REV.
300355-2	PULLEY MODIFIED	1	01/19/22	E		Х		В	TO REV.
300363	COMPRESSOR HOUSING SUPPORT	1	09/01/14	D		Х		В	TO REV
300363-1	COMP. HOUSING SUPPORT LOWER	1	09/01/14	A		Х	Х	В	TO REV.
300363-2	COMPRESSOR SHIM UPPER	1	09/01/14	A		Х	Х	В	TO REV.
300364	COMPRESSOR HOUSING BUSHING	1	01/19/22	D		X	X	B	TO REV.
300396	5 GROOVE PULLEY	1	01/19/22	C		7.	X	B	TO REV.
490015	BLOWER HOUSING ASSY	1	09/01/14	C		Х		B	TO REV.
490015-1	BLOWER HOUSING ASSY	1	01/19/22	Ē		X		B	TO REV
490016-1	FWD. BLOWER ASSEMBLY	1	09/01/14	D		X		B	TO REV.
490017-1	AFT EVAPORATOR FAN	1	09/01/14	F		X		B	TO REV
500001	LEFT SIDE AIR OUTLET ASSEMBLY	1	09/01/14	B		χ	Х	B	TO REV.
500002	RIGHT SIDE AIR OUTLET ASSEMBLY	1	09/01/14	B			X	B	TO REV.
500008-1	LOUVER ASSEMBLY, RH	1	09/01/14	E		Х		B	TO REV.
500010-1	LOUVER HOUSING ASSY. R.H.	1	09/01/14	F		X		B	TO REV
500011-1	LOUVER HOUSING ASSY. L.H.	1	09/01/14	F		X		B	TO REV
500018	AIR OUTLET ASSY, RH	1	01/19/22	E		X		B	TO REV.
500018-1	AIR OUTLET ASSY, RH	1	01/19/22	D		X		B	TO REV
500018-2	AIR OUTLET ASSY, L/H	1	09/01/14	D		X		B	TO REV.
500033	INNER COVER ASSEMBLY	1	09/01/14	B		X		B	TO REV
510007	AFT. CHANNEL COND. SUPPORT ASSEMBLY	1	09/01/14	D		X		B	TO REV
510008	FWD COND. CHANNEL ASSEMBLY	1	01/19/22	E		X		B	TO REV.
510091	COND. FAN MOUNT RING ASSEMBLY	1	09/01/14	E		X		B	TO REV.
510091-2	COND. FAN MOUNT RING ASSY	1	09/01/14	C		X	Х	B	TO REV.
510092	AIR DUCT CLOSURE ASSEMBLY	1	09/01/14	C		X		B	TO REV.
510099	UPPER CLOSEOUT, AFT EVAPORATOR ASSY	1	09/01/14	D		X	Х	B	TO REV.
510200	BOX ASSY	1	09/01/14	D		X		B	TO REV.
510200-1	BOX ASSY	1	09/01/14	C		X	Х	B	TO REV.
510233	RING ASSEMBLY	1	09/01/14	B		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	X	B	TO REV.
510259	AIR OUTLET ASSEMBLY	1	09/01/14	D		Х		B	TO REV.
510259-1	AIR OUTLET ASSEMBLY, LOWER	1	09/01/14	C		X		B	TO REV.
510259-2	AIR OUTLET ASSEMBLY	1	09/01/14	C		X		B	TO REV.
510259-3	AIR OUTLET ASSEMBLY	1	09/01/14	A		X		B	TO REV.
510261	ANGLE RETURN AIR CONECTOR ASSY	1	09/01/14	C		X		B	TO REV.
510265	BATTERY COMP. SHELF ANGLE FWD ASSY.	1	09/01/14	C		X		B	TO REV.
510266	RETURN AIR DOUBLER ASSEMBLY	1	09/01/14	C		X		B	TO REV.
510283	CLOSEOUT, BOTTOM ASSEMBLY	1	09/01/14	C		X		B	TO REV.
510284	CLOSEOUT, SIDE ASSEMBLY	1	09/01/14	C		X		B	TO REV
510284	CLIP ASSEMBLY (FRESH AIR)	1	09/01/14	A		^	Х	B	TO REV
510372	NUT PLATE STRIP ASSY FWD EVAP	1	09/01/14	A			X	B	TO REV
510373	SERVO MOUNT SHELF ASSY	1	09/01/14	B			X	B	TO REV
510374	SERVO MOUNT SHELF ASST	1	09/01/14					B	TO REV
510375		1	09/01/14	A B			X	B	TO REV
510376	ASSEMBLY (FRESH AIR DOOR)		09/01/14	D		I	Х	Ď	IU KEV

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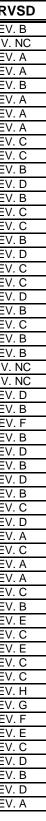




PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE		DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
510377	FRESH AIR ASSY (METAL)		09/01/14	В		70.000	X	B	TO REV
510378HP	OVERLAY ASSEMBLY	1	09/01/14	NC		Х	~	Б	TO REV.
510379	FWD EVAP SUPPORT ASSY UPPER	1	09/01/14	A		~	Х	В	TO REV
510380	FWD EVAP SUPPORT ASSY LOWER	1	09/01/14	A			X	B	TO REV
510381	MOUNT PLATE ASSEMBLY	1	01/19/22	В			X	В	TO REV
510384	ELECT BOX MOUNT ASSEMBLY	1	09/01/14	A		Х	X	B	TO REV.
510463	RESISTOR MOUNT ASSEMBLY	1	09/01/14	A		X	X	B	TO REV.
520001	CONDENSER EXHAUST ASSEMBLY	1	09/01/14	A			X	В	TO REV.
520002	AIR DISTRIBUTION MANIFOLD ASSY	1	01/19/22	С			Х	В	TO REV
520003-130	AIR DIST. MANIFOLD ASSY COMP	1	09/01/14	С			Х	В	TO REV.
520004-130	CONDENSER ASSY	1	09/01/14	В			Х	В	TO REV
520005	MANIFOLD NOZZLE ASSEMBLY	1	09/01/14	D			Х	В	TO REV
520032-1	CONDENSER EXHAUST ELBOW	1	09/01/14	В		Х		В	TO REV.
520033	EVAPORATOR WYE ASSEMBLY	1	09/01/14	С		Х		В	TO REV.
520033-1	FWD EVAP WYE ASSY	1	09/01/14	С		Х		В	TO REV
520034	AFT EVAPORATOR FAN ELBOW ASSY.	1	09/01/14	В		Х		В	TO REV
520036-3	AFT TRANSITION ELBOW ASSEMBLY	1	09/01/14	D		Х		В	TO REV.
520052-1	SCREEN ASSEMBLY COND. EXHAUST	1	09/01/14	С		Х		В	TO REV
520052-2	SCREEN ASSY- COND. EXHAUST	1	09/01/14	С		Х		В	TO REV
520061	AFT EVAPORATOR FAN ELBOW ASSY.	1	09/01/14	D		Х		В	TO REV.
520071	CONDENSER AIR INTAKE ASSY	1	09/01/14	В		Х		В	TO REV
520071-1	CONDENSER AIR INTAKE ASSY	1	01/19/22	С		Х		В	TO REV.
520073	FWD. EVAP. REMOVABLE COVER ASSY.	1	09/01/14	В		Х		В	TO REV
520120	AIR OUTLET ADAPTER ASSEMBLY	1	09/01/14	B		X	Х	В	TO REV.
520156HP	AIR VENT ASSEMBLY L.H.	1	09/01/14	NC		X			TO REV.
520157HP	AIR VENT ASSEMBLY R.H.	1	09/01/14	NC		X		Б	TO REV.
530027-1 530027-2	SD-505 COMPRESSOR MOUNT ASSY SD-505 COMPRESSOR MOUNT ASSY	1	09/01/14 09/01/14	D B		X X		B	TO REV. TO REV.
530027-2	COMPRESSOR MOUNT ASSY	1	09/01/14	Б F		X	Х	B	TO REV
530084	VENTURI RING ASSY.	1	09/01/14	В		X	^	B	TO REV
530100	STRAP, HOUSING MOD ASSY	1	09/01/14	D		X		B	TO REV.
530100-1	STRAP, HOUSING MOD ASSY	1	09/01/14	B		X	Х	B	TO REV
540007	FRESH AIR INTAKE ASSEMBLY	2	01/19/22	D		~	X	B	TO REV.
540008	FRESH AIR SERVO WIRING DIAGRAM	1	09/01/14	B			X	B	TO REV.
540008-1	FRESH AIR SERVO CIRCUIT BOARD ASSY/DIAG	1	01/19/22	C			X	B	TO REV.
540009	ELECTRICAL BOX ASSY	1	09/01/14	D			X	B	TO REV.
540010	HARNESS ASSEMBLY	1	09/01/14	A			X	B	TO REV.
540011	SWITCH ASSEMBLY	1	01/19/22	C			X	В	TO REV.
540012	PANEL MOUNT SWITCH ASSEMBLY	1	09/01/14	A			Х	В	TO REV.
540020	RESISTOR ASSEMBLY	1	09/01/14	A		Х	Х	В	TO REV.
540028-C	ELECTRICAL BOX ASSEMBLY	1	09/01/14	С		Х		В	TO REV.
540028-"C"-1	ELECTRICAL BOX ASSEMBLY	1	09/01/14	В		Х		В	TO REV.
540028-"C"-1-A	ELECTRICAL BOX ASSEMBLY	1	09/01/14	E		Х		В	TO REV.
540028-"C"-2	ELECTRICAL BOX ASSEMBLY	1	09/01/14	С		Х		В	TO REV.
540028-"C"-2-A	ELECTRICAL BOX ASSEMBLY	2	09/01/14	E		Х		В	TO REV.
540044	HARNESS ASSEMBLY	1	09/01/14	С		Х		В	TO REV.
540044-2	HARNESS ASSEMBLY	1	09/01/14	С		Х		В	TO REV.
540044-3	HARNESS ASSEMBLY	1	01/19/22	Н		Х		В	TO REV.
540044-4	HARNESS ASSEMBLY	1	01/19/22	G		Х		В	TO REV.
540044-5	HARNESS ASSEMBLY	2	01/19/22	F	l	Х		В	TO REV.
540044-6	HARNESS ASSEMBLY	1	01/19/22	E		Х		В	TO REV
540044-7	HARNESS ASSEMBLY	1	09/01/14	С		Х		В	TO REV
540044-8	INSTRUMENT PANEL SWITCH		01/19/22	D		X		В	TO REV.
540044-9	5 AMP CIRCUIT BREAKER ASSY	1	09/01/14	В		X		В	TO REV
540045-1			01/19/22	D		X	X	В	TO REV
540056	ELECT. BOX VERTICAL MOUNTING ASSY	1	09/01/14	A		Х	Х	В	TO REV

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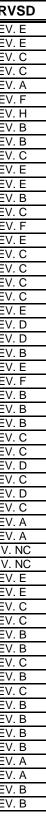




PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE	REVISION	DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
540089	AFT EVAPORATOR SWITCH ASSY	1	01/19/22	E	·	Х		В	TO REV.
550002-"O"	COND. COIL ASSY	1	09/01/14	E		Х		В	TO REV.
550002-"O"-1	COND. COIL ASSY	1	09/01/14	С		Х		В	TO REV.
550003-"O"	AFT CONDENSER ASSY	3	01/19/22	С			Х	В	TO REV.
550004-"O"	CONDENSER COIL ASSY	1	09/01/14	A			Х	В	TO REV.
550007-1	COND. ASSEMBLY	1	01/19/22	F		Х		В	TO REV.
550022	COND. ASSEMBLY	1	01/19/22	Н		Х		В	TO REV.
560004	FORWARD EVAPORATOR ASSEMBLY	2	09/01/14	В			Х	В	TO REV.
560005	FWD EVAPORATOR COIL ASSEMBLY	1	09/01/14	В			Х	В	TO REV.
560006	FWD EVAP COIL HOUSING ASSY	1	01/19/22	С			Х	В	TO REV.
560010-"O"-5	AFT EVAPORATOR ASSEMBLY	1	01/19/22	E		Х		В	TO REV.
560012-"O"-3	AFT EVAPORATOR COIL ASSEMBLY	1	01/19/22	E		Х	Х	В	TO REV.
560016-"O"	COIL ASSEMBLY FWD	1	09/01/14	В		Х		В	TO REV.
560016-"O"-1	AFT EVAPORATOR ASSEMBLY	1	09/01/14	С			Х	В	TO REV.
560025-"O"	FWD. EVAP. ASSY.	1	01/19/22	F		Х		В	TO REV.
560052-"O"	COIL ASSY FORWARD	1	01/19/22	E		Х		В	TO REV.
570020-"O"-A	HOSE ASSEMBLY, COND. TO REC/ DRIER	1	09/01/14	С		Х		В	TO REV.
570021-"O"-A	HOSE ASSY. FWD. EVAP. TO AFT EVAP	1	09/01/14	C		Х		В	TO REV.
570022-"O"-A	HOSE ASSY. EVAP. TO EVAP.	1	09/01/14	C		X		B	TO REV.
570023-"O"-A	HOSE ASSEMBLY, COMP. SUCTION	1	09/01/14	C		X		B	TO REV.
570024-"O"-A	HOSE ASSY, COMPRESSOR DISCHARGE	1	09/01/14	E		Х		В	TO REV.
570067-"O"-A	HOSE ASSY, COND TO REC/DRIER	1	09/01/14	D		Х		В	TO REV.
570070-"O"-A	HOSE ASSY, COMPRESSOR TO COND	1	09/01/14	D		X	Х	B	TO REV.
570071-"O"-A	HOSE ASSY, FWD EVAP. TO AFT EVAP.	1	09/01/14	B		X		B	TO REV.
570072-"O"-A	HOSE ASSY, EVAP TO EVAP	1	01/19/22	E		X		B	TO REV.
570087-"O"-A	HOSE ASS, FWD EVAP. TO AFT EVAP	1	01/19/22	F		X		B	TO REV.
570103	HIGH PRESSURE HOSE, #6 ASSEMBLY	1	09/01/14	B		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Х	B	TO REV.
570104	CONDENSER TO REC DRYER #6 ASSY	1	09/01/14	B			X	B	TO REV.
570105	RETURN HOSE #10 ASSEMBLY	1	09/01/14	B			X	B	TO REV.
580000	5" HUB & PROPELLER ASSY	1	09/01/14	C		Х		B	TO REV.
590001-1-"O"	SD-505 COMPRESSOR ASSEMBLY	1	09/01/14	C		X		B	TO REV.
590008	COMPRESSOR ASSEMBLY	1	01/19/22	D		X		B	TO REV.
590008-1	COMPRESSOR ASSEMBLY	1	01/19/22	C		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Х	B	TO REV.
590010	MOTOR 28 VDC MODIFIED	1	09/01/14	D		Х	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	B	TO REV.
600002	FRESH AIR ASSMBLY	1	01/19/22	C		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Х	B	TO REV.
04-130-21-101	COMPRESSOR MOUNT BRACKET	1	05/18/12	A		Х	X	B	TO REV.
04-130-21-102	COMPRESSOR MOUNT TENSION BOLT	1	01/19/22	A		X	X	B	TO REV.
04-130-21-102	JAM NUT, DRILLED	1	04/30/12	NC		X	X	B	TO REV.
04-130-21-105	COMPRESSOR CLAMP	1	04/30/12	NC		X	X	B	TO REV.
IFSS 050084-7-2	7" DC BRUSHLESS BLOWER ASSEMBLY	1	01/19/22	E		X	X	B	TO REV.
IFSS 050084-7-3	7" DC BRUSHLESS BLOWER ASSEMBLY	1	01/19/22	E		X	X	B	TO REV.
IFSS 261323	3-PIN CONNECTOR W/COLLAR ASSY	1	01/19/22	C		X	X	B	TO REV.
IFSS 540126-1	CONTROLLER ASSEMBLY	1	01/19/22	C		X	X	B	TO REV.
IFSS 261319	CURVED BASE MOUNT	1	01/19/22	B		X	X	B	TO REV.
IFSS 261314-1	CURVED BASE MOUNT ASSY	1	01/19/22	B		X	X	B	TO REV.
IFSS 040021	7" BLOWER HOUSING, STEEL	1	01/19/22	C		X	X	B	TO REV.
IFSS 050193	MOOG DC BRUSHLESS MOTOR	3	01/19/22	B		X	X	B	TO REV.
IFSS 040020	7" HOUSING, SINGLE FLANGE WITH BEAD, STEEL		01/19/22	C		X	X	B	TO REV.
IFSS 040020	7" PROPELLER - MOOG	1	01/19/22	В		X	X	B	TO REV.
IFSS 050176-1	7" PROPELLER HUB	1	01/19/22	B		X	X	B	TO REV.
IFSS 540131	CONTROLLER	1	01/19/22	B		X	X	B	TO REV.
IFSS 510362	MOUNTING PLATE ASSEMBLY	1	01/19/22	B		X	X	B	TO REV.
IFSS 261322	FLAT CONTROLLER MOUNTING PLATE	1	01/19/22	A		X	X	B	TO REV.
IFSS 110008	CONTROLLER COVER	1	09/01/14	A		X	X	B	TO REV.
IFSS 110008	PROP ADAPTER	1	01/19/22	B		X	X	В	TO REV.
IFSS 300398	KEY	1	01/19/22	B				_	TO REV.
1292 200390		I	01/19/22	D	l	Х	Х	В	IU KEV.

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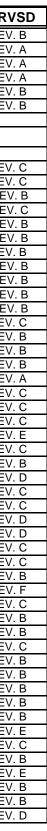




PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE	REVISION	DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
IFSS 261318	STANDOFF	1	01/19/22	В		Х	Х	В	TO REV.
IFSS 120128	FAA/PMA PLACARD	1	09/01/14	A		Х	Х	В	TO REV.
IFSS 120123	MANUFACTURERS PLACARD	1	09/01/14	A		Х	Х	В	TO REV.
IFSS 120124	MANUFACTURERS PLACARD	1	09/01/14	A		Х	Х	В	TO REV.
IFSS 050143-2 DCB	5" DC BRUSHLESS 2 SPEED BLOWER ASSEMBLY	1	01/19/22	В		Х	Х	В	TO REV.
IFSS 050143-3 DCB	5" DC BRUSHLESS SINGLE SPEED BLOWER ASSE	1	01/19/22	В		Х	Х	В	TO REV.
		PURC	CHASE PARTS D	RAWINGS					
010001-1	COMPRESSOR SD-505	1	09/01/14	С		Х		В	TO REV.
010001-1-O	COMPRESSOR SD-505	1	09/01/14	С		Х		В	TO REV.
010001-2-O	COMPRESSOR SD-505	1	09/01/14	В		Х		В	TO REV
010001-3-O	COMPRESSOR SD-505	1	09/01/14	С		Х		В	TO REV
010004	COMPRESSOR SD-507 (SE-507)	1	09/01/14	В		Х	Х	В	TO REV
010004-1	COMPRESSOR ASSY SD-507	1	09/01/14	В		Х	Х	В	TO REV
010004-3	COMPRESSOR	1	01/19/22	В		Х		В	TO REV
010011	BEARING	1	09/01/14	В		Х	Х	В	TO REV
010012	CLUTCH PLATE SD-505	1	09/01/14	В		Х	Х	В	TO REV
010013	CLUTCH PLATE, SD-505	1	09/01/14	В		Х	Х	В	TO REV
010014	CLUTCH PLATE, SD-507	1	09/01/14	В		Х	Х	В	TO REV
010015	CLUTCH PLATE, SD-507	1	09/01/14	С		Х	Х	В	TO REV.
030010	LOUVER	1	09/01/14	В		Х		В	TO REV
030010-1	LOUVER	1	09/01/14	В		Х		В	TO REV
030012-1	WEMAC-BLACK	1	09/01/14	В		Х	Х	В	TO REV.
030012-3	WEMAC, BLACK WITH ADAPTER	1	09/01/14	A		X		В	TO REV.
030021	PLASTIC WEMAC	1	01/19/22	C		X	Х	B	TO REV
040001	BLOWER HOUSING	1	09/01/14	C		X		B	TO REV.
040002	COVER PLATE	1	09/01/14	C		X		B	TO REV
040003	VENTURI RING	1	01/19/22	Ē		X		B	TO REV.
040004-8	FAN WHEEL CW	1	01/19/22	C		X		B	TO REV.
040004-9	FAN WHEEL CW	1	09/01/14	B		X		B	TO REV.
050000	SWITCH W/BUTTON	1	09/01/14	D		X	Х	B	TO REV.
050001	SWITCH W/O BUTTON	1	09/01/14	C		X	X	B	TO REV.
050002	SWITCH	1	09/01/14	C C		X	X	B	TO REV.
050002	SWITCH W/O BUTTON	1	09/01/14	D		X	X	B	TO REV.
050006-2	SWITCH W/BUTTON	1	09/01/14	D		X	X	B	TO REV.
050007	SWITCH BUTTON	1	09/01/14	C		X	X	B	TO REV.
050007	RELAY 24VDC SPST	1	09/01/14	C C		X	X	B	TO REV.
050008	RELAY 24VDC SPST	1	09/01/14	B		X	X	B	TO REV.
050024-2	RESISTOR 100W 2 OHM	1	09/01/14	F		X	X	B	TO REV
050024-2	TIMER		09/01/14	F C				B	
		1		B		X	X	B	TO REV.
050031 050032	BRUSH	1	09/01/14	B		X	X	B	TO REV
	BRUSH CAP	1	09/01/14					_	TO REV
050033		1	01/19/22	С		X	X	В	TO REV.
050034	COIL, 24 VDC	1	09/01/14	В		X	X	В	TO REV
050035	BRUSH	1	09/01/14	В		X	X	В	TO REV
050038	BRUSH	1	09/01/14	В		X	X	В	TO REV
050043	BRUSH	1	09/01/14	В		Х	X	В	TO REV
050044	CIRCUIT BOARD FRESH AIR	3	09/01/14	В			Х	В	TO REV
050052	MOTOR 24VDC DBL. SHAFT	1	01/19/22	E		X		В	TO REV.
050068	12V REGULATOR	1	09/01/14	С		X	X	В	TO REV.
050084	FAN, VANE AXIAL, 24 VDC, 7"	3	09/01/14	В		X	X	В	TO REV.
050107	SWITCH, LOW PRESSURE	1	09/01/14	E		Х	Х	В	TO REV
050108	PLUG, 4 PIN	1	09/01/14	В		Х	Х	В	TO REV.
050109	4 PIN RECPTACLE	1	09/01/14	В		Х	Х	В	TO REV.
050110	CABLE CLAMP KIT SHELL SIZE = 11	1	09/01/14	D		Х	Х	В	TO REV.

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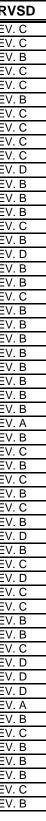




PRODUCTS INC.

DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE			EC130B4	SIZE	NEW/RV
050111	PLUG, 9 PIN	1	09/01/14	С	Х		В	TO REV.
050112	RECEPTACLE, 9 PIN	1	09/01/14	С	Х		В	TO REV.
050113	CABLE CLAMP KIT SHELL SIZE = 13	1	09/01/14	В	Х		В	TO REV.
050114	RECEPTACLE IN LINE	1	09/01/14	С	Х		В	TO REV.
050115	PLUG, CANNON	1	09/01/14	С	Х	Х	В	TO REV.
050116	RECEPTACLE SINGLE PIN	1	09/01/14	В	Х	Х	В	TO REV.
050117	CABLE CLAMP	1	09/01/14	С	Х	Х	В	TO REV.
050118	PLUG	1	09/01/14	С	Х	Х	В	TO REV.
050119	RECEPTACLE	1	09/01/14	С	Х	Х	В	TO REV.
050131	RESET RELAY	1	09/01/14	С	Х	Х	В	TO REV.
050132	SERVO	1	09/01/14	D	Х	Х	В	TO REV.
050134	CLEVIS ROD ASSY	1	09/01/14	В	Х	Х	В	TO REV.
050137	RESET RELAY	1	09/01/14	В	Х	Х	В	TO REV.
050144	BRUSH	1	09/01/14	В	Х	Х	В	TO REV.
060005	4 GROOVE BELT	1	09/01/14	С	Х	Х	В	TO REV.
060006	5 GROOVE BELT	1	09/01/14	В	Х	Х	В	TO REV.
060018	FLAT BELT	1	01/19/22	D	Х		В	TO REV.
060018-1	FLAT BELT	1	01/19/22	В	Х		В	TO REV.
060025	2 1/2" DUCT	1	09/01/14	В	Х	Х	В	TO REV.
060036	3" BAND CLAMP	1	01/19/22	С	Х	Х	В	TO REV.
060037	1" BAND CLAMP	1	09/01/14	B	Х	Х	В	TO REV.
070005	DRAIN TUBING	1	09/01/14	В	Х	Х	В	TO REV.
070076	ALUMINUM FOIL TAPE	1	09/01/14	B	Х	X	В	TO REV.
070077	.25 HEATSHRINK	1	09/01/14	B	X	X	В	TO REV.
070077-1	.125 HEATSHRINK	1	09/01/14	B	X	X	B	TO REV.
070077-2	.375 HEATSHRINK	1	09/01/14	B	X	X	B	TO REV.
070077-3	.50 HEATSHRINK	1	09/01/14	B	X	X	B	TO REV.
070078	FOAM INSULATION TAPE	1	09/01/14	B	X	X	B	TO REV.
070078-0	PT-1 CORK INSULATION TAPE	1	09/01/14	A	X	X	B	TO REV.
070087	LINKAGE	1	09/01/14	B	X	X	B	TO REV.
080005	SCREEN EM-3	1	09/01/14	C	X	X	B	TO REV.
080006	1/2 X 1/2 ,.047 SCREEN	1	09/01/14	B	X	X	B	TO REV.
080048	SCREEN	1	09/01/14	C	X	X	B	TO REV.
090002	EXPANSION VALVE	1	09/01/14	B	X	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	B	TO REV.
090002-"O"	EXPANSION VALVE	1	09/01/14	C	X	Х	B	TO REV.
090002-2	EXPANSION VALVE	1	09/01/14	B	X		B	TO REV.
090004	HIGH PRESSURE SWITCH	1	09/01/14	D	X	Х	B	TO REV.
090004-1	HIGH PRESSURE SWITCH	1	09/01/14	B	X	X	B	TO REV.
090016-2	RECIEVER/DRIER	1	09/01/14	C	X	Λ	B	TO REV.
090016-5	RECIEVER / DRIER	1	01/19/22	D	X	Х	B	TO REV.
090018	DRAIN TUBE 3/8" I.D.	1	09/01/14	C	X	X	B	TO REV.
090018-1	DRAIN TUBE 1/2" I.D.	1	09/01/14	C	X	X	B	TO REV.
090089	#6 NYLON BARRIER HOSE	1	09/01/14	В	X	X	B	TO REV.
090090	#8 NYLON BARRIER HOSE	1	09/01/14	B	X	X	B	TO REV.
090091	#10 NYLON BARRIER HOSE	1	01/19/22	C	X	X	B	TO REV.
090092	6# R134A O-RING	1	01/19/22	D	X	X	B	TO REV.
090093	8# R134A O-RING	1	01/19/22	D	X	X	B	TO REV.
090094	10# R134A O-RING	1	01/19/22	D	X	X	B	TO REV.
09-STD-21-101	#10 FITTING STRAIGHT MALE	1	01/19/22	A	X	^	B	TO REV.
100100	DRAIN NIPPLE 3/8"	1	09/01/14	B	X	Х	B	TO REV.
100100-1	DRAIN NIPPLE 3/8 DRAIN NIPPLE 1/2"	1	09/01/14	C B	X	X	B	TO REV.
100100-1 100126-"O"	5/8" X #10 X 90 FEMALE O-RING	1	09/01/14	B	X	X	B	TO REV.
100126- 0	5/8" X #10 X 45 FEMALE O-RING	1	09/01/14	B	X	X	B	TO REV.
100127- 0	5/8" X #10 X 45 FEMALE O-RING 5/8" X #10 X STRIGHT FEMALE O-RING	1	09/01/14	В	X	X	B	TO REV.
		4						
100129-"O"	1/2" X #8 X 90 FEMALE O-RING		01/19/22	C	 X	X	B	TO REV. TO REV.
100130-"O"	1/2 "X #8 X 45 FEMALE O-RING	1	09/01/14	В	Х	Х	В	ΓO R

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DRAWING NUMBER	DRAWING TITLE	# OF PAGES	DRAWING DATE	REVISION	DESCRIPTION	AS 350	EC130B4	SIZE	NEW/RV
100131-"O"	1/2" X #8 X STRAIGHT FEMALE O-RING	1	01/19/22	С		Х	Х	В	TO REV
100132-"O"	3/8" X #6 X 90 FEMALE O-RING	1	01/19/22	С		Х	Х	В	TO REV
100133-"O"	3/8" X #6 X 45 FEMALE O-RING	1	09/01/14	В		Х	Х	В	TO REV
100134-"O"	3/8" X #6 STRAIGHT FEMALE O-RING	1	09/01/14	В		Х	Х	В	TO REV
100135	#6 X #6 SPLICE W/R134A SERVICE PORT	1	09/01/14	В		Х	Х	В	TO REV
100136	#10 X #10 X INLINE W/R134A SERVICE PORT	1	09/01/14	В		Х	Х	В	TO REV
100137-"O"	3/8" #6 TEE FITTING	1	09/01/14	D		Х	Х	В	TO REV
100140	5/8" X #10 X 90 FEMALE FLARE	1	09/01/14	В		Х		В	TO REV
100141	#10 X #10 X #10 TEE SPLICER	1	09/01/14	В		Х	Х	В	TO REV
100143	#6 X #6 X #6 T SPLICER	1	09/01/14	В		Х	Х	В	TO REV
100144	3/8" X #6 SPLICE W.SIGHT GLASS	1	09/01/14	В		Х		В	TO REV
100147-"O"	1/2 X #6 X STRIAGHT FEMALE O-RING	1	09/01/14	В		Х		В	TO REV
100148	10 X 10 INLINE W/SCHRADER	1	09/01/14	В		Х	Х	В	TO REV
100149	#6 X #6 SPLICE SCHRADER	1	09/01/14	В		Х	Х	В	TO REV
100162	#10 TEE FITTING	1	01/19/22	D		Х		В	TO REV
120117	REFRIGERANT LABEL	1	09/01/14	С		Х	Х	В	TO REV
120203	MOTOR AIR FLOW STICKER	1	09/01/14	A		Х	Х	В	TO REV
120204	RSG PRODUCTS INC. ID TAG	1	01/19/22	В		Х	Х	В	TO REV
250371	PROPELLER	1	09/01/14	В		X	X	В	TO REV

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RSG Products Inc. CONTINUED AIRWORTHINESS – AS350 Air Conditioning

Step 12

Continued Airworthiness

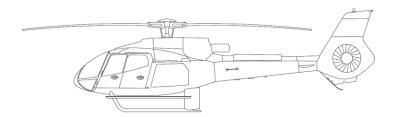
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Air Conditioning System Installation

Instructions for Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4





FAA Project Number: SA3109RC-R STC Number: SH3509SW



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	EC-130 B4					

LOG OF REVISIONS

Instructions for Continued Airworthiness for the Airbus Helicopters AS-350 B, C, D, D1, B, B1, B2, B3, BA and EC-130 B4 Air Conditioning System Installation have been reviewed and found to be acceptable to the Administrator. For the purpose of these Instructions for Continued Airworthiness (ICA), acceptable to the Administrator means the ICA contains the applicable requirements specified in Appendix A to Federal Aviation Regulations Part 27, as appropriate, do not contain any incorrect terminology or incorrect references, and contain a Cover Page, Log of Accepted Revisions, Revision Control Procedure and Record of Temporary Revisions, a list of Effective Pages, and a Table of Contents. Changes to this document will be distributed to owners of the kits within 10 days after the revision is approved. Changes to this document will be indicated by a revision letter in the header, in the Record of Revisions, and on the List of Effective Pages. Contact RSG Products by mail at 440 West Lane Suite 100, Saginaw, TX, 76131. Or by phone at 817-624-6600.

REV	Date	Description	Written By	Checked By	FAA Approval	Approval Date
-	05/03/10	Original Issue	E. Sherrill	P. Ban		
А	06/11/10	Incorporated FAA redlines	E. Sherrill	K. Sheridan		
В	08/08/10	Revised to add Brushless Motor part information, page 87	E. Sherrill	P. Ban		
С	08/12/10	Incorporated FAA redlines	E. Sherrill	P. Ban		
C-1	12/11/13	Revised Chapter 5, 100 hour inspection to change belt on condition. Changed Name.	A. Weidler	S. Weidler		
C-2	09/17/14	Revised Chapter 12 and 21. Removed paragraphs 7 - 9 of Section 12-10-02.d. Removed sight glass troubleshooting information Section 21-00-06 under symptoms.	A. Cuellar	S. Weidler		
C-3	09/30/14	Revised chapter 5 to increase inspection interval to 150 Hours +/- 15	S. Weidler	S. Weidler		
D	11/19/14	Changed Template. Changed Mfr. Name. Was: Eurocopter, Is: Airbus Helicopters. Updated parts list with newer configurations. Parts list is now	S. Johnson	S. Thornton		



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		under Chapter 31. Updated electrical and plumbing diagrams and install drawings. Updated annual/150-hour inspection program in sections 05-00-00 and 05-10-00.			
E	01/12/17	Remove 50 hour inspection table and added Component Overhaul/Replacement schedule for blower motors. Remove, add and update images for Sections 11-00-00, 21-00-00, & 21-10-00	A. Cuellar	S. Weidler	
F	01/19/22	Update to include changes made for MDL Rev U. Change amount of refrigerant to paragraph 1 and 5 on page 18 of 99. Added acceptance criteria to table 5-01 item 8	S. Brewer	K. Musgraves	

Typed signatures indicate approval. Handwritten signature approvals of this document are on file at RSG Products Inc.



DATE:	
01/19/2022	,

TITLE:

Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4

RECORD OF TEMPORARY REVISIONS

Rev. No.	Issue Date	Date Inserted	Ву	Rev. No.	Issue Date	Date Inserted	Ву

PRODU	ICTS	INC.

DATE:

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PRODUCTS INC.	

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Section 01-00-00 Introduction

These are accepted Instructions for Continued Airworthiness for modifications performed in accordance with the Airbus Helicopters AS-350 B, C, D, D1, B, B1, B3, BA and EC-130 B4 Belt-Driven Vapor Cycle Air Conditioning System Installation. All references to the Air Conditioning System in this document will refer to the Belt-Driven Air Conditioning System Installation and other related components specified in STC - SH3509SW. Whether modified by Rotorcraft Services Group or by another Agency with expressed permission from RSG these Instructions for Continued Airworthiness (ICA) should be supplied to the owner/operator of the STC at the time of completion. Subsequent accepted changes to the ICA will be submitted by Rotorcraft Services Group for distribution to owners and operators of the STC.

This, Instructions for Continued Airworthiness, is intended to supplement the AS-350 B, C, D, D1, B, B1, B2, B3, BA, and EC-130 B4 rotorcraft maintenance manuals provided by Airbus Helicopters. The information, procedures, requirements, and limitations contained in this, Instructions for Continued Airworthiness, for this type design change supersede the information, procedures, requirements, and limitations contained in the rotorcraft's maintenance manual when the type design change is installed on the Type Certificate Holder's rotorcraft.

PRODUCTS INC.	

DUCTS INC.	date: 01/19/2022	DOC No.: IFSE-0007	rev: F	PAGE: 2 of 99
		em Installation Instructions F us Helicopters AS-350 B, C,		

Section 04-00-00 Airworthiness Limitations

"The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under §§43.16 and 91.403 of the Federal Aviation Regulation unless an alternative program has been FAA approved."

There are no additional airworthiness limitations associated with the Air Conditioning System Installation.

There are no life limited components associated with the Air Conditioning System Installation.

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Section 05-00-00 Continued Airworthiness Inspection and Overhaul

1. General

This chapter contains time limit intervals for the Component Overhaul Schedule and Scheduled Inspection for the Air Conditioning System. This chapter is to be added to the approved scheduled inspection for the rotorcraft.

2. Component Overhaul Schedule & Scheduled Maintenance Practices

This chapter describes the inspection that must be accomplished on the Air Conditioning System Installation at Scheduled Inspection intervals. Scheduled Inspection requirements must be complied with at the hourly and/or calendar time intervals specified. Refer to Tables 5-01 and 5-02, in Section 05-10-00 for hourly and/or calendar inspection schedules.

3. Conditional Inspection

After any operational incident involving hard landings, sudden stoppage of the drive train or water immersions the system must not be operated and an Annual or 150 flight hour inspection is required.

4. Documentation

Aircraft mechanics, owners, or operators are required to keep records of the aircraft systems inspections and repairs. This includes, but is not limited to, airworthiness directives, service notices, scheduled inspections, records and life limited components.

5. Definitions

The following is short descriptions of words and terms used in the procedures for the required scheduled inspections.

- **Ambient air temperature:** The temperature of the air surrounding a person.
- Charging station: An air conditioning system service.
- Cold: The absence of heat.
- **Condensation:** The process of changing a vapor into a liquid.
- Condition: The state of an item or component compared to a known standard.

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- Damage: Physical deterioration of a component.
- **Desiccant:** A material used in the receiver/dryer bottle, to absorb moisture from the refrigerant.
- **Evaporate:** To change from a liquid into a vapor.
- **Examine:** Look carefully to find the condition of the component. Find how that condition is related to a specific standard.
- **Heat load:** The amount of heat which the air conditioner is required to remove from the aircraft cabin.
- Inches of Mercury: A measurement of pressure normally used for pressures below atmospheric, one i-h of mercury is equal to approximately one-half pound per square i-h.
- **Inspection:** A procedure that includes checking, inspecting and examining a system or component.
- **Maintenance:** The servicing and/or repair of a rotorcraft, a system or a component that keeps it serviceable.
- **Pressure, ambient:** The pressure of the air surrounding a body, normally measured in Pounds per Square i-h, or PSIG.
- **Refrigerant:** A fluid which is used in an air conditioning system to absorb heat from the cabin and carry it outside the helicopter where it can be transferred to the outside air.
- **Relative Humidity:** The ratio of the amount of water vapor in the air to the amount of water vapor required to saturate the air at the existing temperature.
- Scheduled Inspection: An inspection procedure that must occur at a specified calendar interval or at specific operational time intervals. Scheduled Inspections are required to help ensure the rotorcraft stays airworthy.
- **Security:** Term used for inspection of hardware and components to make sure they are properly attached and tightened.
- **Temperature Differential:** Difference in temperature.
- **Thermostat:** An air condition control which senses the temperature of the evaporator coil and causes the system to cycle or by-pass to maintain the proper temperature of cooling air.
- **Vacuum:** A negative pressure, or pressure below atmospheric; it is usually expressed in inches of mercury.
- **Vapor:** The gaseous state of a material.

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6. Abbreviations:

- ICA: Instructions for Continued Airworthiness •
- Temperature differential TD: •
- In: Inches •
- Inches of Mercury InHg: •
- lbs: Pounds •
- Ounces oz: •
- Psig: Pounds per Square I-h (gauge) •
- Grams gr: •
- kg: Kilograms •
- Kilograms Per Centimeter kgcm: •
- ml: Milliliters •
- mm: Millimeters •
- N-m: Newton-meters •



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Section 05-10-00 Continued Airworthiness Scheduled Inspection

1. General

This section contains requirements for scheduled inspection.

2. Scheduled Inspection Program

The Air Conditioning System Installation requires one scheduled inspection in order to maintain continued airworthiness. Every effort should be made to perform the inspection with the aircraft placed in a clean well-lit environment.

a) Annual or 150-Hour Inspection

The inspection is required to be performed annually or every 150 hours of rotorcraft time-in-service, whichever comes first, +15 hours not to exceed 165 hours. If inspection is overflown beyond 165 hours then overflown time must be deducted from the next inspection due. Inspection Table 5-01 specifies the requirements of the annual inspection.

b) Component Overhaul/Replacement Schedule The blower manufacturer recommends TBO at 1000 hours. A blower failure will result in a reduction in cooling, but no safety-of-flight issues are involved. Component Overhaul/Replacement Schedule Table 5-02 specifies the requirements of overhaul/replacement hours.

3. Tools and Special Tools for Scheduled Inspection

Although not necessarily considered special tools, the adjustable ball swivel mirror and bright flashlight and / or drop light are standard requirements for doing inspections. These items should be used freely and frequently to enhance inspection quality and help ensure discrepancies are not missed. It is important to have adequate lighting for all phases of the inspection.

The special tools necessary for the Air Conditioning System Installation inspection are listed as follows:

- a) Vacuum Pump
- b) Gauge Manifold
- c) Vacuum Cleaner
- d) Pull Scale

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Re	gistration No.	Serial No.		Helicopter Total Hours	
	 The inspection shall be rotorcraft time-in-service 165 hours. If inspection is overflown deducted from the next Initial each item after ac Record all findings and After correction of all finding 	e, whichever come n beyond 165 hour inspection due. complishing the in attach a copy of fir	s first, +1 rs then ov spection. ndings to	5 hours not to exceed erflown time must be this inspection form.	
PR	RE-INSPECTION				Initial
	Review Airworthiness Directiv	/es.			
	Review records for the Air Co		۱.		
	Review log books for discrep				
	SPECTION	<u></u>			Initial
	Perform an operational test				
	Inspect the condition of the or flat spots. Change belt if 60-00 Belt Tension).	necessary. Check	belt for p	roper tension (Ref. 12-	
3.	Inspect the compressor for turn the main rotor blade wh Turn system to "A/C" and ch compressor ground wire for pulley show signs of excess and coil (Ref. Section 12-20	nile another observ neck magnetic ope condition and cor vive heat, replace c	ves the be eration of a nductivity. clutch pull	elt and clutch faceplate. clutch faceplate. Inspect . If clutch plate and ey assembly, bearing	
4.	Inspect the compressor clut bearing. If the bearing is greated the bearing using 3 to 5cc of satisfactory when performed Some operators flying as m greasing can occur at more OVER PACK THE BEARIN	eased use a hypoc of Mobil 28 grease. d at regularly sche uch as 200 hours than 500-hour inte G .	dermic nee . This has duled insp per month ervals, pro	edle, without removing s proven to be pections of 500 hours. In have found that re- ovided they DO NOT	
	100% capacity packing of 1 ½ hours.	-			
5.	Inspect hoses for general co			· ·	
6.	Check for security of all plue Procedures). Replace fitting chaff material. Perform syst	s as needed. Che	ck securit	y of clamps and anti-	

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Detach elbow from top o Note position relative to if brush is 5/16" or less. independent power sou Until seating occurs on motor assembly remove life. Reconnect wires to the blower/fans in the "F assemblies to see that fe blower/fan, which might run at the various speed 8. Access the condenser (the fins of the condenser damage has occurred to	 a). Aft evaporator motor of blower assembly. Recurvature of armature. Install new brushes an rce). 70% of the surface (this a aircraft system and rein FAN" position and performaterials have new cause blade damage. Is available to check the Ref. Section 6-00-00 Dimer coil for cleanliness and performaterials and performaterials have new cause blade damage. Is available to check the Ref. Section 6-00-00 Dimer coil for cleanliness and performaterials and performaterials have new could be finded by the finded by the	has two (2) removable brue emove brushes one (1) at a Inspect brush for wear. Re ad run at 12 VDC (utilizing a should be accomplished w ction will greatly enhance b install insulated duct. Run b orm visual inspection of the tot been ingested into the The blower/fan should also e motor operation.	time. eplace n vith rush poth of o be eck ght. If n in		

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Table 5-02 Component Overhaul/ Replacement Schedule

Description	Part Number	Overhaul/Replacement Hours
Aft Evaporator Blower Motor	490017-1-01	The blower manufacturer
	(IFSS 050143-3 DCB)	recommends TBO at 1000 hrs. At
	490017-1-02	the discretion of the operator, it is
	(IFSS 050143-2 DCB)	acceptable to operate the blower
		until failure. A blower failure will
		result in a reduction in cooling, but
		no safety-of-flight issues are
		involved.
Condenser Blower Motors	IFSS 050143-3 DCB or	Same as above
	IFSS 050084-7-2 &	
	IFSS 050084-7-3	

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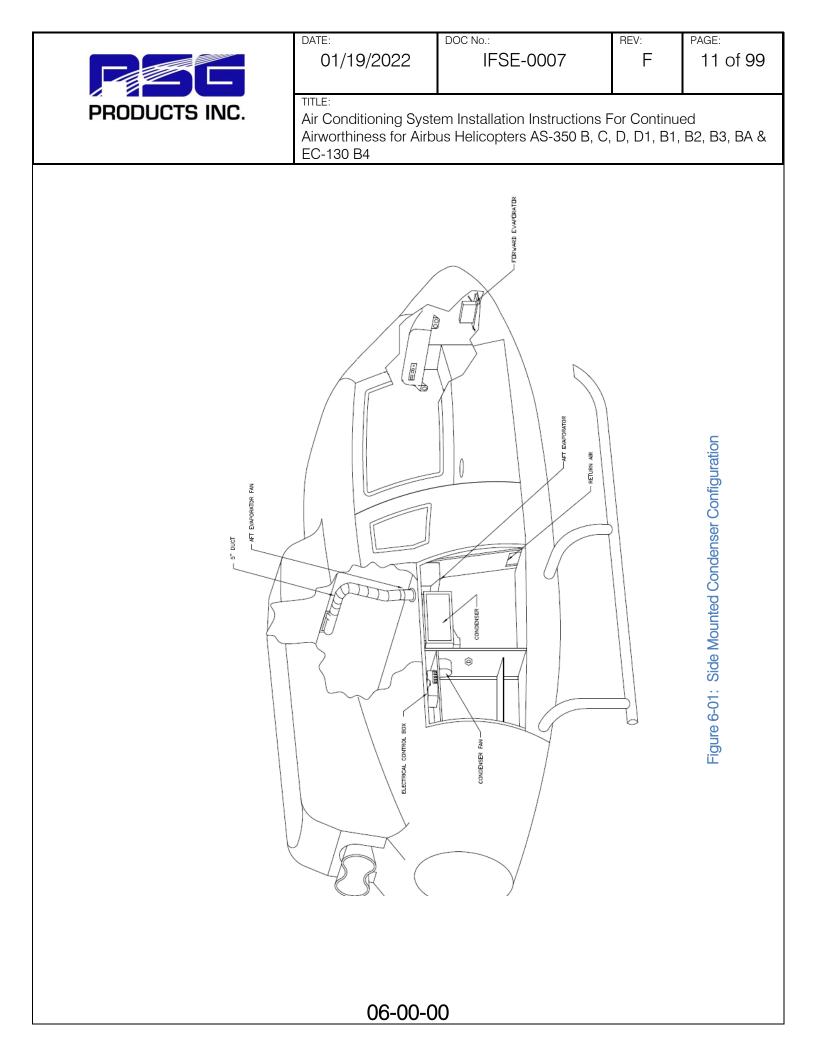
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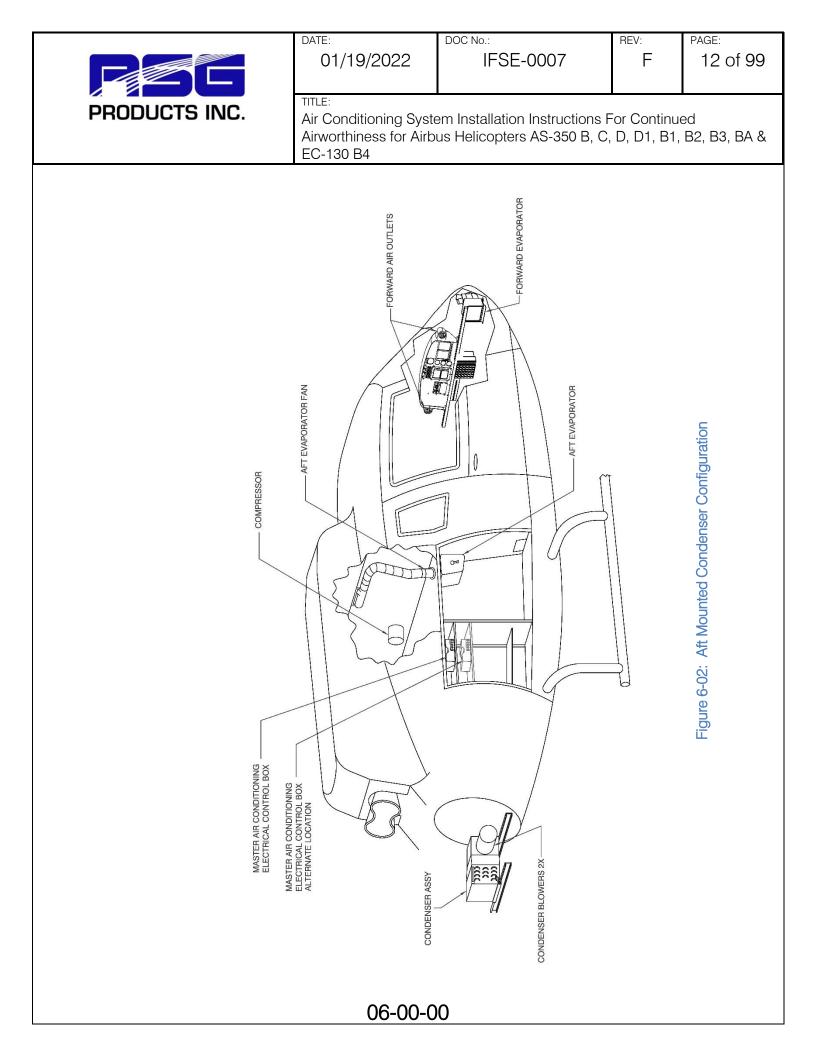
Section 06-00-00 Dimensions and Access

1. Access Methods

- a) Access Item Identification (Ref. figures 6-01 & 6-02)
 - **Condenser** The condenser is located in one of two positions depending on kit part number (Ref. Section 21.00.00 System Description). The aft mounted condenser (Kit numbers 350-00-031HP and 130-00-031HP) (Ref. figure 6-02) is mounted in the tail boom mounted 5 in. above the baggage floor and is accessed by removing the tail boom closeout panel. The side mounted condenser (Kit Number 350-00-011HP) is located in the right baggage compartment (Ref. figure 6-01) and is accessed by removing to baggage compartment close out panel.
 - **Compressor** The compressor is located aft and to the left side on main transmission deck. It is accessed by opening the upper transmission cowling.
 - **Aft Evaporator** The aft evaporator is located on the right-hand upper transmission deck in all configurations. It is accessed by opening the right-hand transmission cowling forward latch.
 - Forward Evaporator- In the AS-350 series, the forward evaporator is located on the cockpit floor forward of the pilots' controls. In the EC-130, it is located on the cockpit floor forward of the pedestal and mounted to the pedestal. No additional access method is required.
- b) Removal and Installation Methods

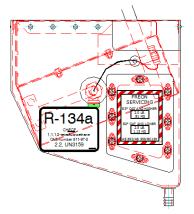
Caution: Use of power tools during removal or installation of panels and attaching hardware may damage nut plates or deform holes in composite doors, covers, panels, and fairings.





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Section 11-00-00 Placare	ds and Markings				
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I		}		U	
For PN: IFSS 050143 For PN: IFSS 050084					
	OIL TYPE ESTER OIL ISO 200				
	QTY 7.50Z DAT	E:			
		R134A			



For PN: 560010-O-5 & 560016-O-1

For PN: 590008 & 590008-1



For PN: 050145

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Section 12-00-00 Servicing Maintenance Practices

1. General

It is assumed in the following practices that the personnel engaged in Charging, Servicing, or Maintenance of the system will be either an experienced air conditioning mechanic under the supervision of a qualified A & P mechanic or an A & P mechanic possessing good air conditioning skills.

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Section 12-10-00 Charging Practices

1. Reclaiming

- a) Connect the EPA approved recovery unit services hoses, which shall have shut-off valves to the aircraft air conditioning system service ports.
- b) Operate the recovery equipment as covered by the equipment manufacturers recommended procedure.
- c) Start the recovery process and remove the refrigerant from the aircraft air conditioning system. Operate the recovery unit until the aircraft system has been reduced from a pressure to a vacuum. With the recovery unit shut off for at least 5 minutes, determine that there is not refrigerant remaining in the aircraft air conditioning system. If the aircraft system has pressure, additional recover operation is required to remove the remaining refrigerant. Repeat the operation until the aircraft air conditioning system vacuum level remains stable for two minutes.
- d) Close the valves in the service lines and then remove the service lines from the aircraft system. Proceed with the repair/service. If the recovery equipment has automatic closing valves, be sure they are properly operating.

2. Charging

a) Prior to Charging the System

Prior to charging the system with R-134a, the evaporator fan/blower and condenser blower should be checked for operation and direction of airflow. This is most easily done by utilizing a GPU unit for electrical power. Since the compressor is belt driven only those maintenance and operational functions that are electrically powered may be checked either in the hanger or on the ramp without running the engine.

After the GPU is connected to the aircraft and the Aircraft Master Switch is "On", the air conditioning system may be turned "On". Place the rocker switch on the Master Air Conditioning Control Panel to "A/C". It does not cause the compressor to run or refrigerant to be pumped. All evaporator blowers and the forward evaporator fan should start immediately. The 7" condenser blower and clutch will not engage until after approximately 4 seconds after evaporator fan start. **NOTE: SYSTEM MUST HAVE MINIMUM 30 PSI CHARGE**

Check airflow of each evaporator fan/blower. Determine that air is coming out of the cockpit and the cabin air outlets.

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Check airflow into and out of condenser air openings.

b) Charging the System

*NOTE: All evaporators' fan/blower, condenser blowers, and controls are 28-volt DC.

DANGER: R-134a, particularly liquid R-134a, should never be allowed to come in contact with the eyes or skin. Under normal conditions, R-134a as a gas or vapor is an inert substance and non-poisonous. A flame-type leak detector should never be used because of the danger of fire or explosion around an aircraft. Several electronic leak detectors are available on the market.

Never heat a cylinder of R-134a to produce additional pressure or to squeeze that last bit of refrigerant from the cylinder. If the cylinder has become cooled to the point where additional refrigerant cannot be obtained from it, the only approved method is to place the entire cylinder in a container of warm water. Do Not Exceed 120 Degrees Fahrenheit.

Never attempt to repair a leak requiring brazing or soldering within the aircraft structure as fire or explosion can result. Remove the entire assembly from the aircraft to a safe location before attempting such a procedure.

CAUTION: Should R-134a come in contact with the eyes or skin, Do Not attempt first aid beyond the immediate washing of the eye or skin with clear water. A doctor should be contacted immediately for diagnosis and treatment even though the injury may be considered slight.

The refrigerant used in this system R-134a, and no other refrigerant is to be considered. Normal safety practices, such as wearing of gloves and the use of goggles, should be utilized as R-134a could freeze the eyeball instantly were it to come in contact with the eye. Also, frostbite could occur to areas of the skin if R-134a were allowed to come in contact.

Charging of the system is a simple procedure whether on initial or recharging after leakage repair. A set of refrigerant gauges with a minimum of three hoses should be connected to the high side and low side service ports provided.

Prior to charging each newly installed system with R-134a, you will not need to charge compressor with oil since 7.5 ounces of ESTER oil has already been

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added. Do not add additional oil if replacing a compressor in an existing system.

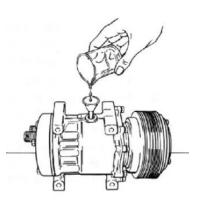


Figure 12 - 01: Adding Oil to the Compressor

c) Initial Charging

Tighten any leaking connections or make repairs as necessary to eliminate leaks. Shut off and disconnect hose from the refrigerant cylinder. Connect the hose to a regulator mounted on a cylinder of dry nitrogen. Purge the regulator to center manifold hose. **Close low side valve (left) at manifold. Failure to do so can cause pressure to flow to the low side (left) gauge. Failure of gauge can result.**

Pressurize system to 250-PSI minimum, 300-PSI maximum.

After the system has been rechecked with the leak detector and it is determined that no leaks exist, disconnect the charging hose from the manifold set to the cylinder of nitrogen. Open the valves allowing the R-134a and nitrogen within the system to be collected into an EPA approved recycling until (expelling of refrigerant is not allowed).

Connect a vacuum pump to the center manifold hose. Open both valves and evacuate the system for a minimum of twenty minutes. (**NOTE**: For each 1,000 foot rise in altitude above sea level, a decrease below 30" of vacuum of 1" per one thousand feet rise in altitude will occur).

d) Adding R134-a Refrigerant

Close both the manifold valves and connect the center charging hoses to a cylinder of R-134a. Open the valves of the cylinder. Purge the charging hose by loosening it at the charging manifold's center hose. **ONLY THE HIGH SIDE VALVE OF THE CHARGING MANIFOLD MAY NOW BE OPENED**

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The combination of the vacuum still existing and the pressure in the R-134a cylinder transfers the R-134a from the cylinder into the system, on the high side only, without the compressor running. If a scale is available, the cylinder may be pre-weighted and 2.5 pounds of refrigerant R-134a added to the system. No additional refrigerant should be added after the system is in operation. Close manifold.

The system is now ready for operation. This must be performed on the flight line with the engine at 100%. As soon as the "A/C" Master Control Switch is turned to "A/C" all 28 VDC evaporator fans will immediately begin operations.

If, after the system has been in the "A/C" mode for at least 2 minutes and cooling is not being accomplished, then check all circuit breakers.

Determine that 28 VDC power is available for control circuitry. Check operations of the relays and contacts

After the compressor has come on line, the entire system is operational with the manifold valve closed on the high side. The R-134a cylinder valve should be closed initially in order to get an accurate reading on the low side gauge of the "system pressure". The reading on the gauge should not be allowed to go below 10 PSI, as this will indicate that the low-pressure safety switch is possibly set too low. It will disconnect the electrical power to the compressor clutch if allowed to open. Open or close the cylinder valve as required to monitor the flow of R-134a from the cylinder into the low side of the system, if additional R-134a is needed. Smoke test is no longer required for R-134a receiver/drier (without sight glass) like it was for R-12 receiver/drier (with sight glass).

Charge system to 2.5 lbs. The optimum method of determining the correct charge using at least two digital thermometers and place them near the return air and the discharge air of each evaporator. R-134a can then be added or deleted, as required, until the highest T.D. is noted, per the paragraph below. At that time, the correct amount of refrigerant is installed.

A test sheet should be completed noting the average cabin temperature, the temperature on the return or entering air to all evaporators and the discharge air from the evaporators, at the nearest point. If a Temperature Differential (T.D.) of less than 20 degrees Fahrenheit with a humidity of 30% or less in recorded through the evaporators at sea level, the system should be considered as having possible defects, which will need investigation. At altitudes above sea level, less than 20 degrees Fahrenheit temperature difference may be recorded at humidity of 30% or less. This is due to less dense air moving more rapidly through the evaporators.

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e) Effect of Humidity on TD

It should be noted that in measurements taken and entered on a test sheet that similar measurements made at a later date, when the humidity is considerably higher, would dramatically change the T.D.

The higher the humidity, as compared to a previous T.D. reading taken with a low humidity, will result in a lower T.D. The reason for this lower T.D. measurement is that when a test is performed at lower humidity, only "SENSIBLE HEAT" is being removed. With higher humidity, a different condition exists. It requires that "LATENT HEAT" containing moisture borne heat must first be removed prior to the removal of the sensible heat

If the system is found to be completely empty of R-134a, a set of charging gauges should be connected to both high and low side service ports and to a cylinder of R-134a. Purge the charging hoses from the cylinder to the service ports with R-134a vapor. Open both the low and high side charging valves and allow pressure from the cylinder to equalize through the system until at least 50 PSI is noted. Utilizing an electronic leak detector, check all fittings on the system to determine the point of leakage. Any fitting indicating an oily or dirty condition is a prime suspect.

Recharging the System f)

After the leaks have been found and corrected, pressurize the system with dry nitrogen. Re-check for leaks. Connect a vacuum pump to the system and evacuate the system for a minimum of 20 minutes from both the high and low sides. If the system has been allowed to become contaminated, then the receiver/drier is to be replaced.

It is always good air conditioning practice to replace the receiver/drier whenever it is suspected that moisture has contaminated the system.

The balance of the recharging procedure is exactly the same as pointed out previously under the Charging Operation. A judgment must be made as to the amount of oil, if any, lost at the point of leakage. Additional oil may be required to be added to the system. If the refrigerant has been expelled rapidly by the rupture of a line or similar situation, then two (2) ounces of refrigerant oil of the type previously specified should be applied to the system at this time and immediately prior to charging of the system with R-134a.

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Section 12-20-00 Clutch Servicing Practices

1. General

These clutch servicing practices are applicable to all compressors that can be installed with the Air Conditioning System Installation.

a) Clutch Armature Assembly Removal

- (1) If armature dust cover is present, remove the 3 or 6 bolts holding it in place and remove cover. If auxiliary sheet metal pulley is present, remove the screws holding it in place. Then remove pulley.
- (2) Insert pins of armature plate spanner into threaded holes of armature assembly.
- (3) Hold armature assembly stationary while removing retaining nut with 3/4 in, 19 mm or 14 mm socket wrench as appropriate. (Ref. Figure 12-02)



Figure 12 - 02

(4) Remove armature assembly using puller. Thread 3 puller bolts into the threaded holes in the armature assembly. Turn center screw clockwise until armature assembly comes loose. (Ref. Figure 12-03)



Figure 12 - 03

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- (5) If shims are above shaft key, the key and bearing dust cover (if present) must be removed before the shims can be removed.
- (6) Remove bearing dust cover (if present). Use caution to prevent distorting cover when removing it.
- (7) Remove shaft key by tapping loose with a flat blade screwdriver and hammer.
- (8) Remove shims. Use a pointed tool and a small screwdriver to prevent the shims from binding on the shaft.

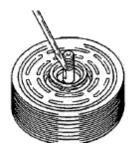


Figure 12 - 04

b) Rotor Assembly Removal

- (1) If bearing dust cover has not been removed, remove it now.
- (2) If internal snap ring for bearing is visible above the bearing, remove it with internal snap ring pliers.
- (3) Remove rotor snap ring.
- (4) Remove shaft key.
- (5) Remove rotor assembly: insert the lip of the jaws into the snap ring groove, place rotor puller shaft protector (puller set) over the exposed shaft, align thumb screws to puller jaws and finger tighten and turn puller center bolt clockwise using a socket wrench until rotor pulley is free. (Ref. Figure 12-05)



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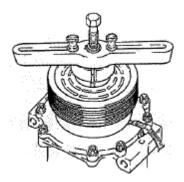


Figure 12 - 05

c) Field Coil Assembly Removal

- (1) Loosen lead wire clamp screw with #2 Phillips screwdriver until wire(s) can be slipped out from under clamp.
- (2) Undo any wire connections on the compressor which would prevent removal of the field coil assembly.
- (3) Remove snap ring.
- (4) Remove the field coil assembly. (Ref. Figure 12-06)

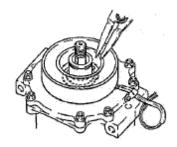


Figure 12 - 06

d) Field Coil Assembly Installation

- (1) Reverse the steps of the field coil assembly removal. Protrusion on underside of coil ring must match hole in front housing to prevent movement and correctly locate lead wire(s).
- e) Rotor Assembly Installation

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- (1) Place compressor on support stand, supported at rear end of compressor. If the compressor must be clamped in a vice, clamp only on the mounting ears, never on the body of the compressor.
- (2) Set rotor squarely over the front housing boss.
- (3) Place the rotor installer ring into the bearing bore. Ensure that the edge rests only on the inner race of the bearing, not on the seal, pulley, or outer race of the bearing.
- (4) Place the driver into the ring and drive the rotor down onto the front housing with a hammer or arbor press. Drive the rotor against the front housing step. A distinct change of sound can be heard when using a hammer to install the rotor. (Ref. figure 12-07).



Figure 12 - 07

(5) Reinstall rotor bearing snap ring, if it has been removed, with internal snap ring pliers. (Ref. figure 12-08)



Figure 12 - 08

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- (6) Reinstall rotor retaining snap ring with external snap ring pliers. If a bevel is present in the snap ring, it should be face up (away from the body of the compressor).
- (7) Reinstall rotor bearing dust cover (if present) by gently tapping it into place.

f) Armature Assembly Installation

(1) Install shaft key with pliers. (Ref. figure 12-09)



Figure 12 - 09

- (2) Install clutch shims. NOTE: Clutch air gap is determined by shim thickness. When installing a clutch on a used compressor, try the original shims first. When installing a clutch on a compressor that has not had a clutch installed before, first try 0.04 in, 0.02 in and 0.004 in (1.0, 0.5, 0.1 mm) shims.
- (3) Align keyway in armature assembly to shaft key. Using driver and a hammer or arbor press, drive the armature assembly down over the shaft until it bottoms on the shims. A distinct sound change will be noted if driving with a hammer. (Ref. figure 12-10)

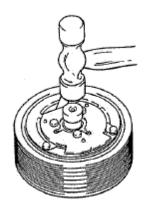


Figure 12 - 10

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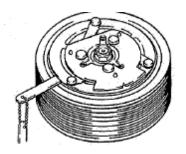
(4) Replace retaining nut and torque to specification

1/2-20: 20-25 ft*lb (27-34 N*m)

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M8: 11-15 ft*lb (15-21 N*m)

(5) Check air gap with a feeler gauge. Specification is 0.011-0.019 in (0.3-0.5mm). If gap is not even around the clutch, gently tap down at the high spots. If the overall gap is out of spec, remove the armature assembly and change shims as necessary.





(6) Replace armature dust cover (if used) and torque 3 or 6 bolts to specification below.

3-1/4-20 bolts: 2-4 ft*lb (2-5 N*m)

6-M5 bolts: 5-8 ft*lb (7-11 N*m)

NOTE: Over torque of dust cover bolts will cause air gap to become out of spec.

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Section 12-30-00 System Leak Check

1. General

Identification and elimination of system fitting leaks is extremely important to the operation of this air conditioning system installation.

A system which contains a partial charge of refrigerant can be leak tested with the aid of an electronic leak detector and be recharged without evacuating the system.

A new or empty system can be pressurized with nitrogen 70-80 psi (5.1-5.6 kgcm) or R134a 50 psi to conduct a leak survey. Do not use compressed air, for it can introduce moisture into the system causing degradation to the operation of the system.

The preferred method is to use an electronic leak detector in conjunction with a small charge of R134a refrigerant. All checks done in this manner should be conducted with the air conditioner off. Since the refrigerant is heavier than air, leaks are most likely to be detected on the underside of the hoses and fittings. Refrigerants will collect in low areas and provide erroneous leak detection. A stream of compressed air from a nozzle may be useful in clearing the area just prior to conducting a leak test.

If the nitrogen method is used, it will be necessary to mix together a water and mild soap solution. Each fitting or suspected leak area should be brushed with this soap solution and watched for evidence of bubbles formed by the escaping nitrogen.

If a leak is detected at an O-ring fitting, check to ensure proper torque has been applied to the fitting. If the system continues to leak, evacuate the system of refrigerant and install a new O-ring. NOTE: be sure that the O-ring is lubricated with refrigerant oil prior to its installation.

A small amount of leakage (approximately one ounce per year) past the compressor shaft seal is normal. Most leak detectors are sensitive enough to show a leak a magnitude.

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Section 12-40-00 Fitting Torque Procedures

1. Fitting Torque Procedures and Torque Values

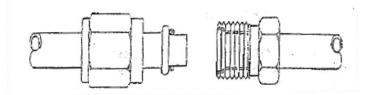


Figure 12 – 12: Insert O-Ring Fittings

- (1) Confirm there is no damage on fittings.
- (2) Apply a thin coating of refrigerant oil to O-ring and female side of fitting.
- (3) Slide B-nut back away from the end of the tube so the O-ring can be seen as the fitting is being slide together. Be careful not to pinch the O-ring during assembly.
- (4) Engage the male end into the female fitting being careful to maintain alignment.
- (5) The male flange should seat fully against the female fitting without the O-ring being pinched.
- (6) It is important to hold the fitting together while sliding the B-nut forward and engaging the threads. Tighten the B-nut by hand and torque per table 12-01. DO NOT OVER TORQUE.

Table 12-01 Hung Torque Values		
Fitting # Torque Value in/lbs (Nm)		
#6	30-35 (3.4-4.0)	
#8	40-45 (4.6-5.1)	
#10	50-55 (5.7-6.3)	

Table 12-01 Fitting Torque Values



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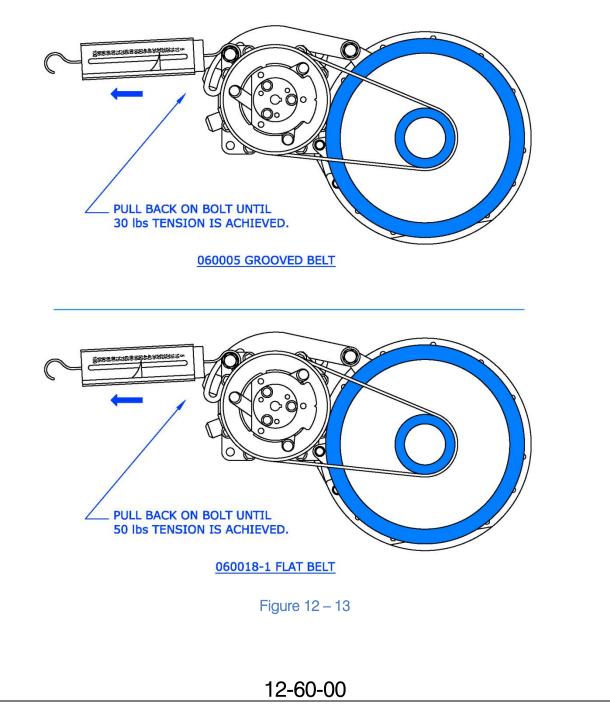
Section 12-50-00 Normal Operation Functional Test

- a. With the aircraft engine operating, electrical system on and functioning normally, move the air conditioner control switch to the "FAN" position.
- b. Move the cockpit fan switch from "LOW" to "HIGH" speed and ensure that air output is present in all the forward air outlets. Repeat the test using the aft cabin fan speed selector switch for the aft cabin air outlets.
- c. Reposition the air conditioner control switch to the "A/C" position and repeat Step 2 above. Cool air should be supplied to the cockpit and cabin vents after a time delay of 4 to 8 seconds.
- d. Turn air conditioner switch to "OFF" or the center position. Entire system should shut down.

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Section 12-60-00 Belt Tension Procedure

With the compressor drive belt on the drive pulley and the compressor clutch pulley. Tighten bolts at the adjustment arm assuring the belt proper amount of tension. Tighten the lower forward mounting bolt. Use a pull scale to measure the tension. (Ref. figure 12-13). Recommended belt tension values if using a grooved belt is 30 lbs and if using a flat belt is 50 lbs.





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Section 12-70-00 Drive Belt Change Procedure

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- a. Access the compressor installation (ref. Section 6-00-00 Dimensions and Access). For compressor information reference Section 21-00-00 Air Conditioning.
- b. Place a support on the transmission deck to support the engine drive while the shaft is disconnected for belt installation.
- c. Remove the cotter pins from the four pins holding the "Gimble Ring" at the Thomas coupling.
- d. Slide the "Gimble Ring" aft to gain access to the Thomas coupling.
- e. Remove the 6 bolts and Thomas coupling connecting the drive shaft and shift slightly aft.
- f. Install two (2) Compressor Drive belts.
- g. Reassemble the Thomas coupling.
- h. Secure 1 belt to the outside of the drive shaft cover for a spare and slip one through the housing and over the drive pulley.
- i. Install the "Gimble Ring" pins and cotter pins. Remove supports.
- j. Install the compressor drive belt on the drive pulley and the compressor clutch pulley. Tighten bolts at the adjustment arm assuring the belt proper amount of tension. (Ref. Section 12-60-00 Belt Tension Procedure). Tighten the lower forward mounting bolt.

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Chapter 20

Section 20-00-00 Standard Practices

This chapter contains maintenance information and procedures that are common standard practices. Information contained in this chapter is standard torque charts and application procedures, corrosion prevention, painting, mechanical fastener sealing, and dye penetrant inspection techniques.

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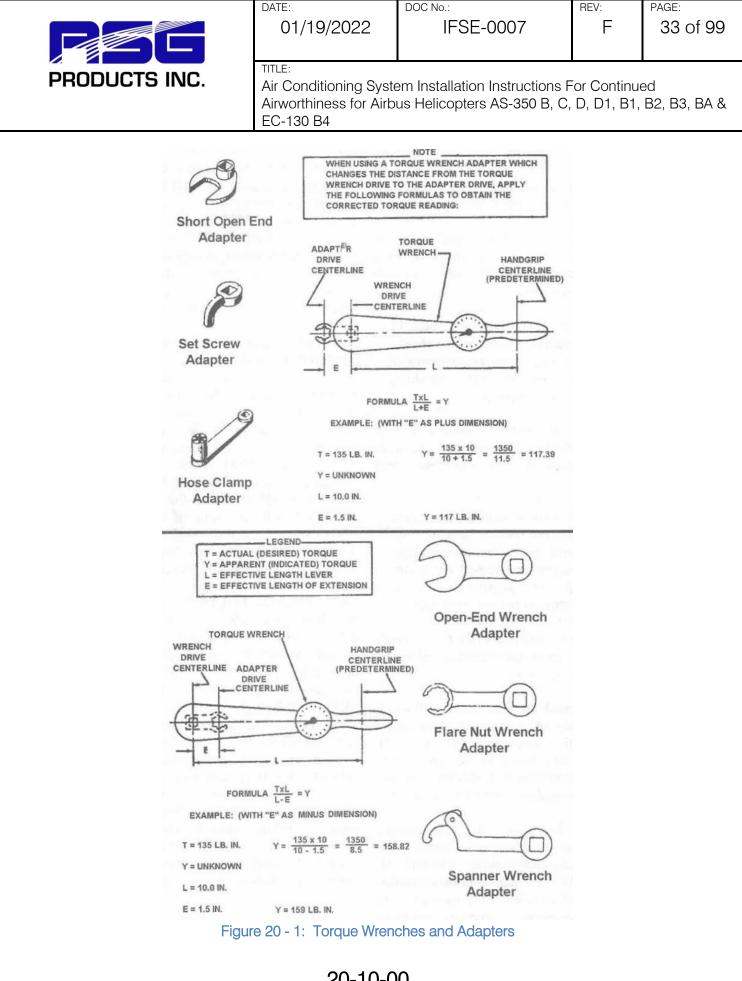
Section 20-10-00 Torques Maintenance Practices

1. Torque Wrenches

a) Torque Wrench Accuracy

Torque wrenches must be of good quality and calibrated at least once a year. Any torque wrench that has been dropped or abused should be calibrated to ensure continued accuracy.

- b) Application of Torque Wrench Loads
 - (1) Be sure the bolt and nut and the surface they bear on are clean and dry, unless otherwise specified by the manufacturer.
 - (2) Run the nut down to near contact with the washer or bearing surface and check the friction drag torque required to turn the nut. Add the friction drag torque to the desired torque to arrive at the "final torque" to be registered on the torque wrench indicator.
 - (3) Whenever possible, apply the torque to the nut instead of the bolt. This will reduce rotation of the bolt in the hole and reduce wear.
 - (4) Apply a smooth even pull when applying torque pressure.
 - (5) If special adapters are used which will change the effective length of the torque wrench, the final torque indication or wrench setting must be adjusted accordingly. To determine the torgue wrench setting or indication with adapter installed reference Figure 20-01.



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2. Torque Values

Warning: Do not exceed maximum allowable torque value. Overstressing of fastener may result.

Standard hardware torque values are given in the following Table 20 - 1 through Table 20 - 3. Table 20 - 1 gives recommended torque values for fine thread fasteners, shear and tension applications. Table 20 - 2 gives recommended torque values for coarse thread fasteners, shear and tension applications. Table 20 - 3 gives recommended torque values for coarse thread fasteners, shear and tension applications. Table 20 - 3 gives recommended torque values for coarse thread fasteners, shear and tension applications. Table 20 - 3 gives recommended torque values for coarse thread fasteners, shear and tension applications. Table 20 - 3 gives recommended torque values for coarse thread fasteners, shear and tension applications. Table 20 - 3 gives recommended torque values for Phillips-head screws.

Thread Size	Shear		Tensio	n
Fractional (decimal)	Recommended	Maximum	Recommended	Maximum
	in-lb (N-m)	in-lb (N-m)	in-lb (N-m)	in-lb (N-m)
8-36	7-9	12	12-15	20
(0.1640-36)	(0.79-1.02)	(1.36)	(1.36-1.69)	(2.26)
10-32	12-15	25	20-25	40
(0.1900-32)	(1.36-1.69)	(2.82)	(2.25-2.82)	(4.51)
1/4-28	30-40	60	50-70	100
(0.2500-28)	(3.38-4.51)	(6.77)	(5.64-7.90)	(11.29)
5/16-24	60-85	140	100-140	225
(0.3125-24)	(6.77-9.60)	(15.81)	(11.29-15.81)	(25.41)
3/8-24	95-110	240	160-190	390
(0.3750-24)	(10.73-12.42)	(27.11)	(18.07-21.46)	(44.05)
7/16-20	270-300	500	450-500	840
(0.4375-20)	(30.49-33.88)	(56.48)	(50.83-56.48)	(94.88)
1/2-20	290-410	660	480-690	1,100
(0.5000-20)	(32.75-46.31)	(74.55)	(54.22-77.94)	(124.25)
9/16-18	480-600	960	800-1,000	1,600
(0.5625-18)	(54.22-67.77)	(108.44)	(90.36-112.96)	(180.73)
5/8-18	660-780	1,400	1,100-1,300	2,400
(0.6250-18)	(74.55-88.10)	(158.14)	(124.25-146.84)	(271.10)
³ ⁄4 -16	1,300-1,500	3,000	2,300-2,500	5,000
(0.7500-16)	(146.84-169.44)	(338.88)	(259.80-282.40)	(564.80)
7/8-14	1,500-1,800	4,200	2,500-3,000	7,000
(0.8750-14)	(169.44-203.32)	(474.43)	(282.40-338-88)	(790.72)
1-12	2,200-3,300	6,000	3,700-5,500	10,000
(1.0000-12)	(248.51-372.76)	(677.76)	(417.95-621.28)	(1129.6)
1-1/8-12	3,000-4,200	9,000	5,000-7,000	15,000
(1.1250-12)	(338.88-474.43)	(1016.6)	(564.80-790.72)	(1694.4)
1-1/4-12	5,400-6,600	15,000	9,000-11,000	25,000
(1.2500-12)	(609.98-745.53)	(1694.4)	(1016.6-1242.6)	(2824.0)

Table 20 - 1: Recommended Torque Values for Fine-Thread Fasteners



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Table 20 - 2: Recommended Torque Values for Coarse-Thread Fasteners

Thread Size	Shear	•	Tensio	n
Fractional (decimal)	Recommended	Maximum	Recommended	Maximum
	in-lb (N-m)	in-lb (N-m)	in-lb (N-m)	in-lb (N-m)
8-32	7-9	12	12-15	20
(0.1640-32)	(0.79-1.02)	(1.36)	(1.36-1.69)	(2.26)
10-24	12-15	21	20-25	35
(0.1900-24)	(1.36-1.69)	(2.37)	(2.25-2.82)	(3.95)
1⁄4-20	25-30	45	40-50	75
(0.2500-20)	(2.82-3.38)	(5.08)	(4.51-5.64)	(8.47)
5/16-18	48-55	100	80-90	160
(0.3125-18)	(5.42-6.21)	(11.29)	(9.03-10.16)	(18.07)
3/8-16	95-100	170	160-185	275
(0.3750-16)	(10.73-11.29)	(19.20)	(18.07-20.89)	(31.06)
7/16-14	140-155	280	235-255	475
(0.4375-14)	(15.81-17.50)	(31.62)	(26.54-28.8)	(53.65)
1⁄2-13	240-290	520	400-480	880
(0.5000-13)	(27.11-32.75)	(58.73)	(45.18-54.22)	(99.40)
9/16-12	300-420	650	500-700	1,100
(0.5625-12)	(33.88-47.44)	(73.42)	(56.48-79.07)	(124.25)
5/8-11	420-540	900	700-900	1,500
(0.6250-11)	(47.44-60.99)	(101.66)	(79.07-101.66)	(169.44)
³ ⁄4-10	700-950	1,500	1,150-1,600	2,500
(0.7500-10)	(79.07-107.31)	(169.44)	(129.90-180.73)	(282.40)
7/8-9	1,300-1,800	2,700	2,200-3,000	4,600
(0.8750-9)	(146.84-203.32)	(474.43)	(248.51-338-88)	(519.61)
1-8	2,200-3,000	4,500	3,700-5,000	7,600
(1.0000-8)	(248.51-338.88)	(508.32)	(417.95-564.80)	(858.49)
1-1/8-8	3,300-4,000	7,200	5,500-6,500	12,000
(1.1250-8)	(372.76-451.84)	(813.31)	(621.28-734.24)	(1355.5
1-1/4-8	4,000-5,000	10,000	6,500-8,000	16,000
(1.2500-8)	(451.84-564.80)	(1129.6)	(734.24-903.68)	(1807.4 N m)

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Table 20 - 3: Recommended Torque Values for Phillips-Head Fasteners

Thread Size Fractional (decimal)	Recommended in-lb (N-m)	Maximum in-Ib (N-m)
8-32 (0.1640-32	12-15 (1.36-1.69)	23 (2.59)
10-32 (0.1900-32)	20-25 (2.25-2.82)	35 (3.95)
1⁄4-28 (0.2500-28)	60-70 (6.77-7.90)	90 (10.16)
5/16-24 (0.3125-24)	110-125 (12.42-14.12)	150 (16.94)
3/8-24 (0.3750-24)	150-175 (16.94-19.76)	225 (25.41)
7/16-20 (0.4375-20)	230-280 (25.98-31.62)	450 (50.83)
1⁄2-20 (0.5000-20)	550-650 (62.12-73.42)	850 (96.01)
9/16-18 (0.5625-18)	750-900 (84.72-101.66)	1,200 (135.55)
5/8-18 (0.6250-18)	1,100-1,300 (124.25-146.84)	1,600 (180.73)

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Section 20-30-00 Painting Maintenance Practices

The following procedures should be used to touch-up paint flaking, scratches, nicks, and gouges in system components.

Warning: Cleaning solvents and epoxy primer are flammable. Cleaning solvents, epoxy primer, and alodine can cause burns and irritation when skin is contacted. Vapors are harmful and caustic to eyes; goggles must be worn for eye protection. Cleaning solvents and alodine are poisonous. Vapors are harmful to life or health; work should be performed with proper ventilation and / or respirators should be worn while working with cleaning solvents, epoxy primer and alodine.

1. Paint Touch-Up of Small Areas

Use the following procedures to touch-up paint of small sanded areas and nicks, scratches, gouges, etc., that do not go through paint and primer to bare metal.

- a. Wipe surface clean with trichloroethane, MIL-T-81533, or equivalent cleaning solvent, and wipe dry immediately.
- b. Apply coat of epoxy polyamide primer, MIL-P-23377F or equivalent, to match original. Feather primer coating onto surrounding color coat. Allow primer to air dry for 30 minutes.
- c. Apply topcoat to match original finish.



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Section 20-40-00 Corrosion Control Maintenance Practices

1. Corrosion Control

The system components are fabricated primarily of steel and aluminum, and should be inspected regularly for any signs of corrosion. The following procedures should be used for removing corrosion and treating affected areas.

2. Corrosion Removal

Remove corrosion by either chemical or mechanical means.

a) Paint Removal, Chemical

Caution: Do not use chemical paint stripper on composite materials. Chemical paint strippers can cause composite components to de-bond and / or lose adhesion of the epoxy matrix.

(1) Mask all non-metallic surfaces in area to be stripped as well as areas where solution may get entrapped.

Warning: Paint stripper can cause burns and irritation when it contacts skin; proper gloves should be worn. Vapors are harmful and caustic to eyes; goggles must be worn for eye protection. Paint stripper is poisonous. Vapors are harmful to life or health; work should be performed with proper ventilation and / or respirators should be worn while working with paint stripper.

(2) Using a fiber brush, apply sufficient paint stripper (Turco 5873) to cover area of removal.

Note: If paint stripper evaporates quickly or works slowly, cover area with plastic sheet.

- (3) Allow paint remover to remain on surface for a time sufficient to cause wrinkling and lifting of paint (about 10-30 minutes).
- (4) Using non-metallic scraper or abrasive pads (3M Scotchbrite 63) scrub area to further loosen paint.
- (5) Reapply paint stripper (Turco 5873) as necessary in areas where paint remains tightly adherent.



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- (6) Wash and scrub surface with demineralized water and alkaline cleaner to neutralize paint stripper.
- (7) Remove masking materials and any residual paint or stripper
- (8) Rinse with demineralized water.
- b) Paint Removal, Mechanical

Caution: Do not sand into or expose composite fibers. Do not remove more material than necessary. Do not use aluminum oxide abrasive materials on epoxy/graphite materials.

Use abrasive flap wheel, abrasive disk, abrasive paper, or plastic media blast to remove paint.

c) Corrosion Removal

Note: Aircraft shall be electrically grounded during corrosion removal operations. When removing exterior corrosion from electronic boxes, the unit case shall be electrically grounded during the complete operation.

- (1) Corrosion shall be removed by the mildest method possible.
 - (a) Hand scrub with dry non-metallic brush/pad (3M pad).
 - (b) Use abrasive cloth (Aluminum oxide 240 grit). Caution: Do not use on epoxy/graphite materials.
 - (c) Use 320-grit sandpaper.
 - (d) Glass bead blast.
 - (e) Use 240-grit abrasive wheel.

Note: On high-strength steel, do not use power tools other than a flap brush or mandrel with abrasive material; overheating and notching may occur.

- (2) Ensure all active corrosion and corrosion products have been removed.
- (3) Using 320-grit sandpaper, blend edges of paint (if applicable) surrounding repair area to create a smooth transition. Vacuum the area thoroughly to remove all contaminants.



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- (4) Apply aluminum surface treatment if applicable. (Ref. Section 4 of 20-40-00, Aluminum Alloy Surface Touch-Up Treatment).
- (5) Touch-up primer and paint to match original.

3. Mechanical Defects (Nicks, Scratches, Gouges, Etc.)

- a) Section 20-30-00 Painting Maintenance Practices).
- b) If damage is through the paint surface, prepare area for paint touch-up using the following methods.

Note: On high-strength steel, do not use power tools other than a flap brush or mandrel with abrasive material; overheating and notching may occur.

- (1) Remove defect using flap wheel, abrasive disk, abrasive paper, or plastic media blast.
- (2) Using 320-grit sandpaper, blend edges of paint surrounding repair area to create a smooth transition.
- (3) Apply aluminum surface treatment if applicable. (Ref. Section 4 of 20-40-00, Aluminum Alloy Surface Touch-Up Treatment).
- (4) Touch-up primer and paint to match original.

4. Aluminum Alloy Surface Touch-Up Treatment

Note: If there is any question as to whether or not the protective coating is removed, surface treatment shall be applied.

Warning: Alodine and solvents can cause burns and irritation when it contacts skin; proper gloves should be worn. Vapors are harmful and caustic to eyes; goggles must be worn for eye protection. Alodine is poisonous. Vapors are harmful to life or health; work should be performed with proper ventilation and / or respirators should be worn while working with solvents and alodine. Solvent cleaners are flammable.

- a) Scuff surface using 3M Scotchbrite 63 cellulose/nylon scouring pad.
- b) Wipe exposed surface with isopropyl alcohol or aliphatic naphtha. Allow area to air dry for 10 minutes. Do not touch or otherwise contaminate surface after solvent wipe.



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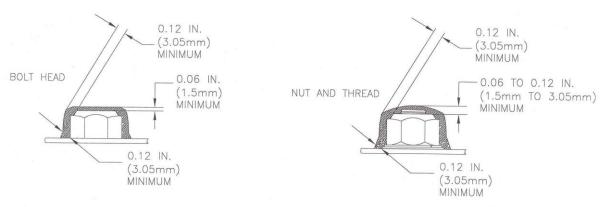
- c) Apply Alodine 1200 or equivalent with cotton swab, non-metallic brush, or by dipping. Maintain moist surface for 1-3 minutes with repeated application. Surface will become amber or brown in color.
- d) Irrigate surface with demineralized or distilled water to remove surface treatment chemical. Allow to air dry for approximately 1 hour.
- e) If there is any surface without color change, repeat procedure.
- f) Apply paint touch-up as required (Ref Section 20-30-00 Painting Maintenance Practices).

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Section 20-50-00 Mechanical Fastener Sealing Methods

Remove existing cracked, chipped or broken existing sealing compound and thoroughly clean with solvent. Reseal using MIL-S-8802, sealing compound, mixing per manufacturer's instructions.

Seal mechanical fasteners as shown:





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Section 20-90-00 Dye-Penetrant Inspection Methods

Warning: solvents can cause burns and irritation when it contacts skin; proper gloves should be worn. Vapors are harmful and caustic to eyes; goggles must be worn for eye protection. Vapors are harmful to life or health; work should be performed with proper ventilation and / or respirators should be worn while working with solvents. Solvent cleaners are flammable.

Use the following steps to perform dye-penetrant inspection:

1. Using cleaning solvent trichloroethane, MIL-T-81533, clean area to be inspected.

Note: Parts to be inspected must be dry and heated to at least 70° F (21.1° C), but not over 130° F (54.4° C). Note: Manufacturer's instructions on Dye-Penetrant Kit take precedence over the following instructions.

- 2. Apply penetrant from dye-penetrant kit (ASTM E1417) by brushing, spraying, or by dipping. Allow to stand for a minimum of 2 minutes.
- 3. Remove excess penetrant with remover (available with dye-penetrant kit), or by cleaning with plain water. Allow part to dry.
- Apply a light, even layer of developer from dye-penetrant kit by brushing, spraying, or 4. by dipping. When dipping, avoid excess quantity.
- 5. Penetrant which has penetrated into cracks (or other openings) in the surface of the part will be drawn out by the developer, resulting in a bright red indication.
- 6. If part is serviceable or repairable, clean part free of penetrant and developer with trichloroethane (MIL-T-81533) cleaning solvent.

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Chapter 21

Section 21-00-00 Air Conditioning

Description and Operation 1.

The Air Conditioning System Installation consists of a belt driven vapor cycle air-conditioning system using R-134a as the refrigerant. The air conditioning system provides for cabin comfort during all operations, both in the ground and in flight. During ground operations when the engines are running, cooling may be provided.

This system consists of 4 major components:

- Condenser- The condenser is located in one of two positions depending on kit part number (Ref. table 21.1). The aft mounted condenser (Ref. figure 21-01) is mounted in the tail boom mounted 5 in. above the baggage floor. The side mounted condenser is located in the right baggage compartment (Ref. figure 21-02). The EC-130 condenser is only located in the aft mounted configuration. The aft mounted condenser assembly has two blower motors, whereas the side mounted condenser assembly only has one blower motor.
- **Compressor** The compressor is located aft and to the left side on main transmission deck. The belt is secured to the outside of the drive shaft, in all configurations. If designated by the kit part number (Ref. tables 21-01 & 21-02), either a smooth pulley compressor or a grooved double V-belt pulley compressor is installed.
- Aft Evaporator- The aft evaporator is located on the right-hand upper transmission deck in all configurations.
- Forward Evaporator- In the AS-350 series, the forward evaporator is located on the cockpit floor forward of the pilots' controls. In the EC-130 kits, it is located forward of the pedestal and mounted to the pedestal.

Controls for the air conditioning system are located around or in the instrument panel, the specific location depending on the Kit number part as described in tables 21-01 and 21-02. All kits contain a Master Control Selector, which consists of a rocker type switch labeled, "A/C", "OFF" and "FAN." Selecting the "A/C" turns on the system's dual evaporator fans, compressor and condenser blower. The second rocker switch, also included with every kit, is for "HIGH," "MED" and "LOW" evaporator fan speed selection for the forward cockpit. An additional 2 position switch for the aft evaporator fan speed "HI/LOW" is present depending on the kit part numbers and the switch is located per that kit.



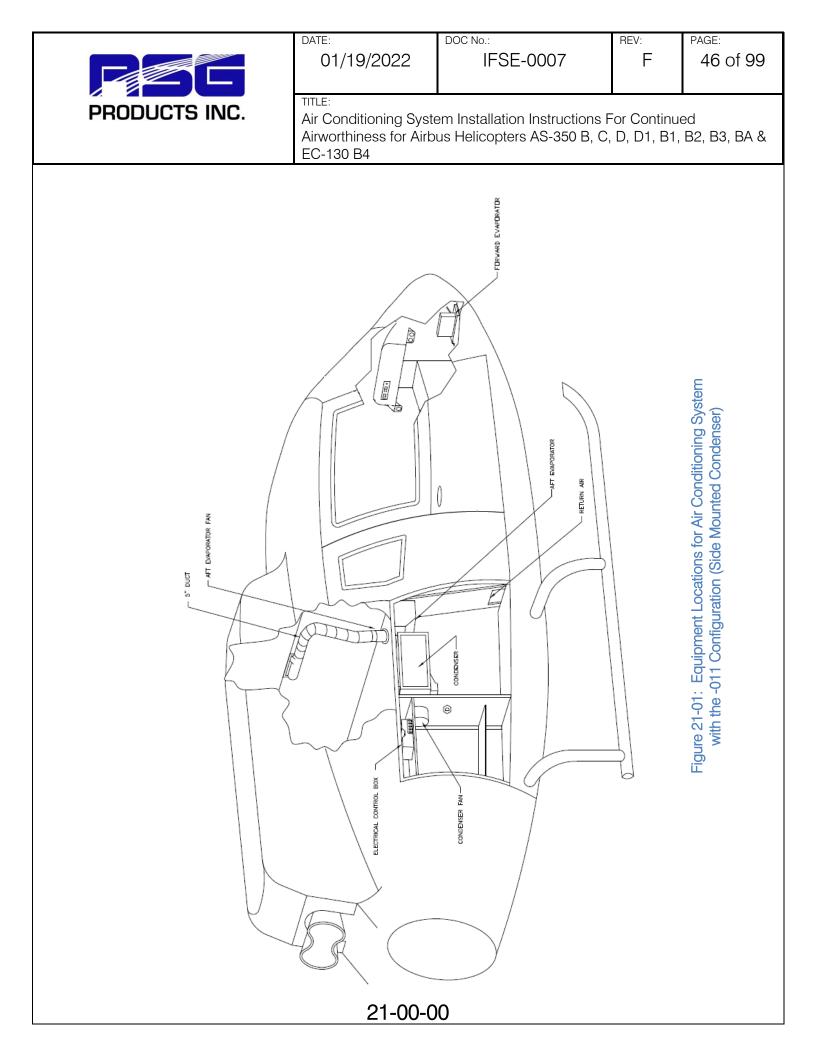
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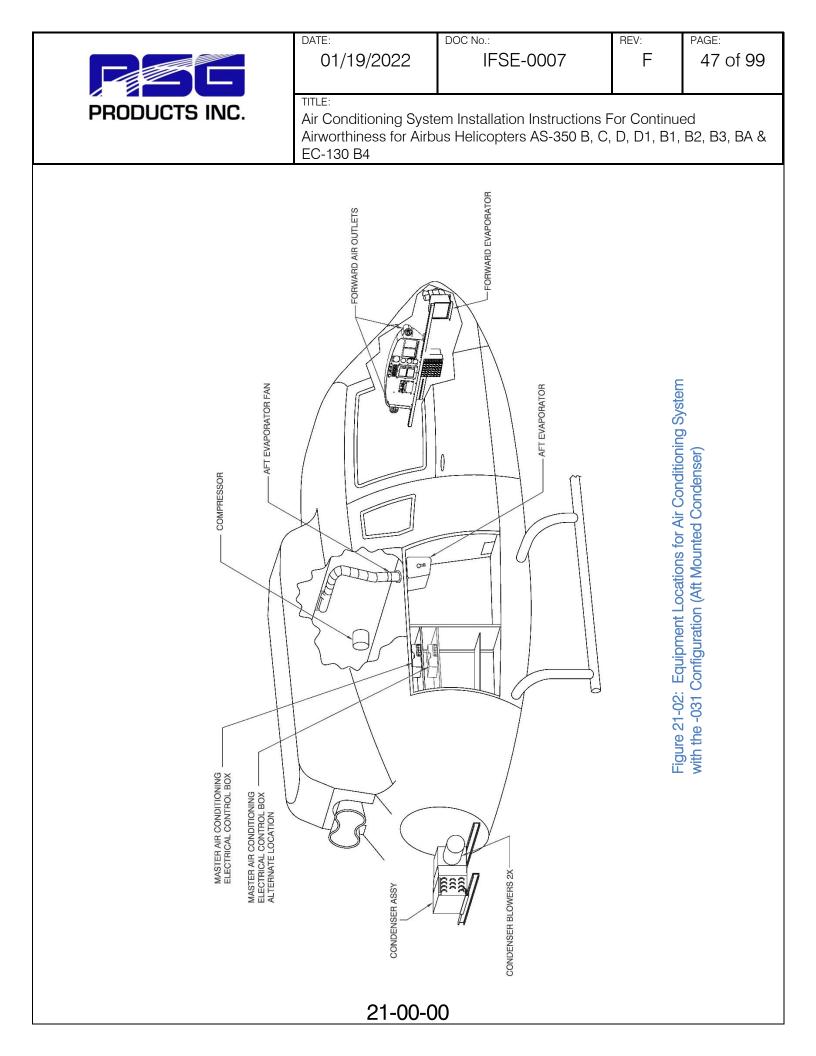
Table 21-1 Air Condition System Installation Kit Part Number Description AS-350 Series

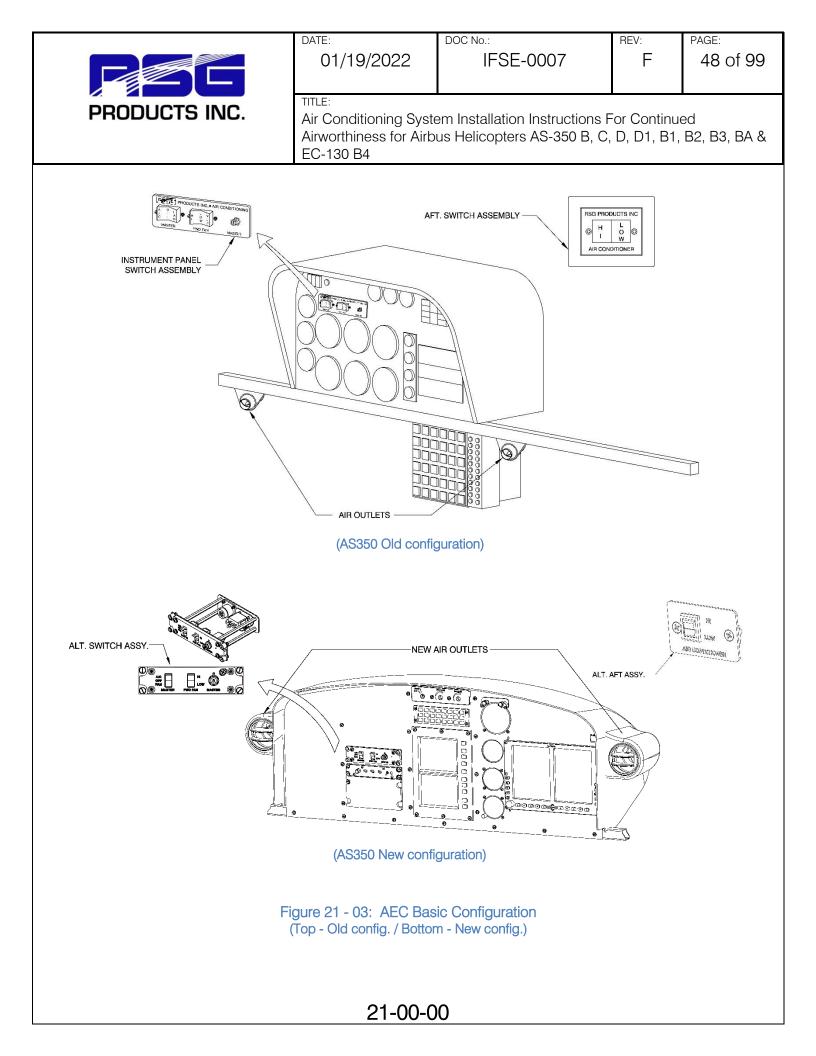
AS-350 Series				
BASE KIT NUMBERS:				
350-00-011-HP	AEC Basic Configuration Side Mounted Condenser (Ref Figure 21-01)			
350-00-031-HP	AEC Basic Configuration Aft Mounted Condenser (Ref Figure 21-02)			

Table 21-2 Air Condition System Installation Kit Part Number Description EC-130 Series

EC-130B4				
BASE KIT NUMBER:				
130-00-031-HP*	Aft Mounted Condenser (Ref Figure 21-02)			
CUSTOM CONFIGURATIONS:				
Corporate Configuration (Ref Figure 21-05)				







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2. **Removal/ Installation Forward Evaporator**

(Ref. figures 21-06 and 21-07)

a) Removal

- 1) Access forward evaporator per Section 6-00-00 Dimensions and Access.
- 2) Connect refrigerant reclaimer to system in accordance with Section 21-00-00 and remove coolant from system. Comply with all Federal, State, and Local rules governing refrigerant handling.
- 3) Remove bolts securing evaporator.
- 4) Remove evaporator assembly.
- 5) Support evaporator while removing lines and other duct work.
- 6) Remove evaporator from aircraft.
- 7) Cap all open lines on unit and aircraft.
- 8) Disconnect electrical connections and remove evaporator fan.

b) Installation

- 1) Reinstall fan in aircraft and connect electrical connections.
- 2) Position evaporator against fan assembly and loosely install with securing hardware. Secure mounting hardware.
- 3) Reinstall drain line.
- 4) Connect duct work.
- 5) Ensure refrigerant O-rings are installed and in good condition. Replace as necessary. Oil all O-rings and fittings with refrigerant oil of the same type listed on the compressor. Torque refrigerant lines: #6 11-13 ft./lbs.; #8 15-20 ft./lbs.; #10 21-27 ft./lbs.
- 6) After completing other system functions and maintenance, charge system in accordance with Section 12-10-00.
- 7) Check for leaks per section 12-30-00

21-00-00



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PRODUCTS INC.		em Installation Instructions F us Helicopters AS-350 B, C		
	Figure 21 - 06: Forward		INSTALL AN960-1 MS21044	25-"0"
5X AN960-10	•5A BOLT	Evaporator (EC-130)		
	21-00-0	0		



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3. Removal/ Installation Aft Evaporator

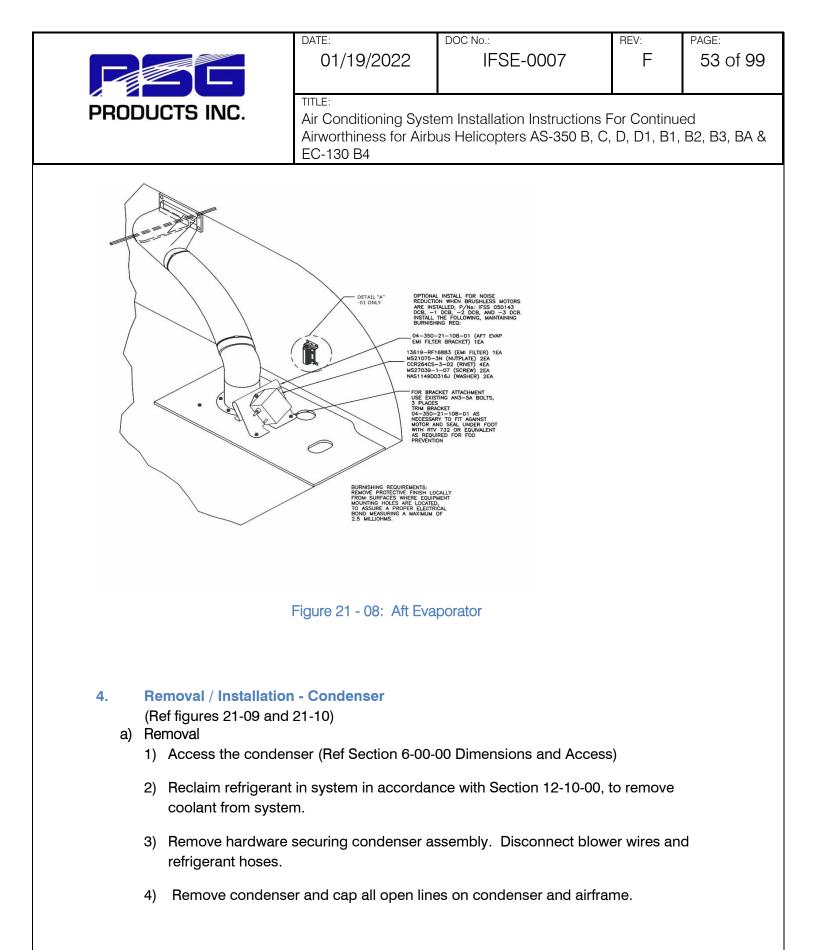
(Ref Figure 21-08)

a) Removal

- 1) Access aft evaporator (Ref. Section 6-00-00 Dimensions and access) and remove electrical connections.
- 2) Reclaim refrigerant in system in accordance with Section 12-10-00, to remove coolant from system.
- 3) Support evaporator while removing lines and duct work.
- 4) Cap all open lines on unit and aircraft.

b) Installation

- 1) Reinstall fan/evaporator and connect electrical connections.
- 2) Position evaporator and loosely install with securing hardware. Secure mounting hardware.
- 3) Reinstall drain line.
- 4) Connect duct work.
- Ensure refrigerant O-rings are installed and in good condition. Replace as necessary. Oil all O-rings and fittings with refrigerant oil of the same type listed on the compressor. Torque refrigerant lines: #6 11-13 ft./lbs.; #8 15-20 ft./lbs.; #10 21-27 ft./lbs.
- 6) After completing other system functions and maintenance, charge system in accordance with Section 12-10-00.
- 7) Check for leaks per section 12-30-00.



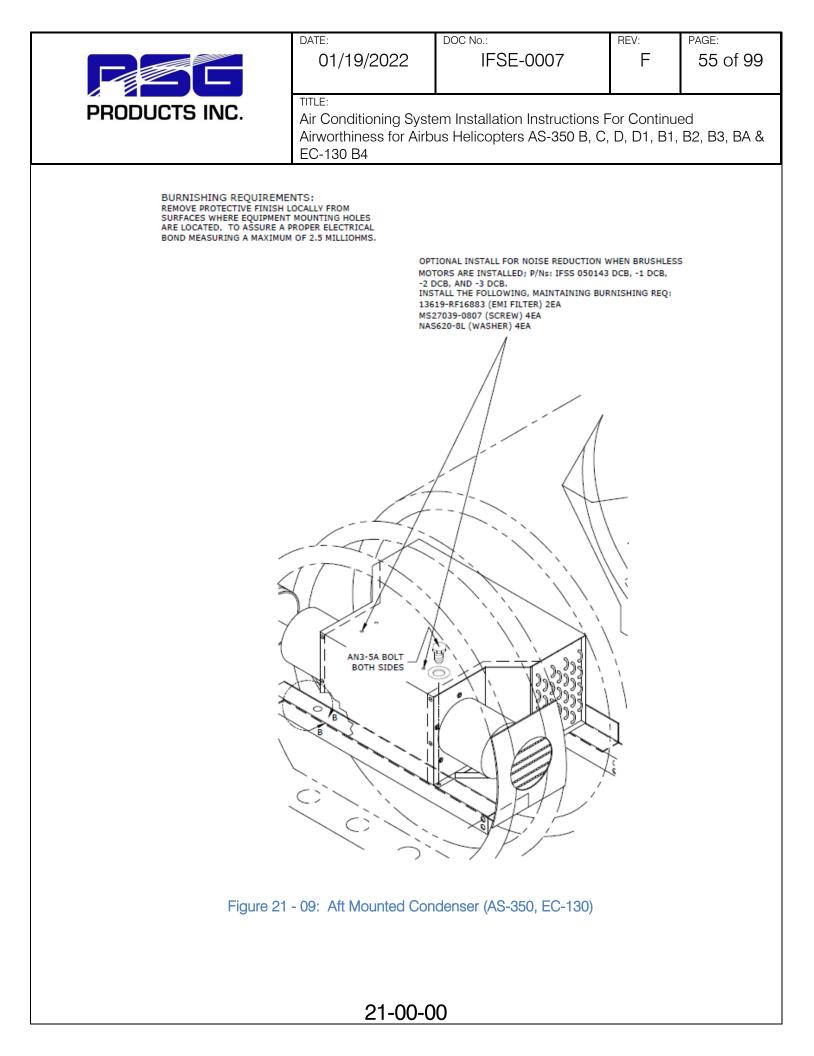
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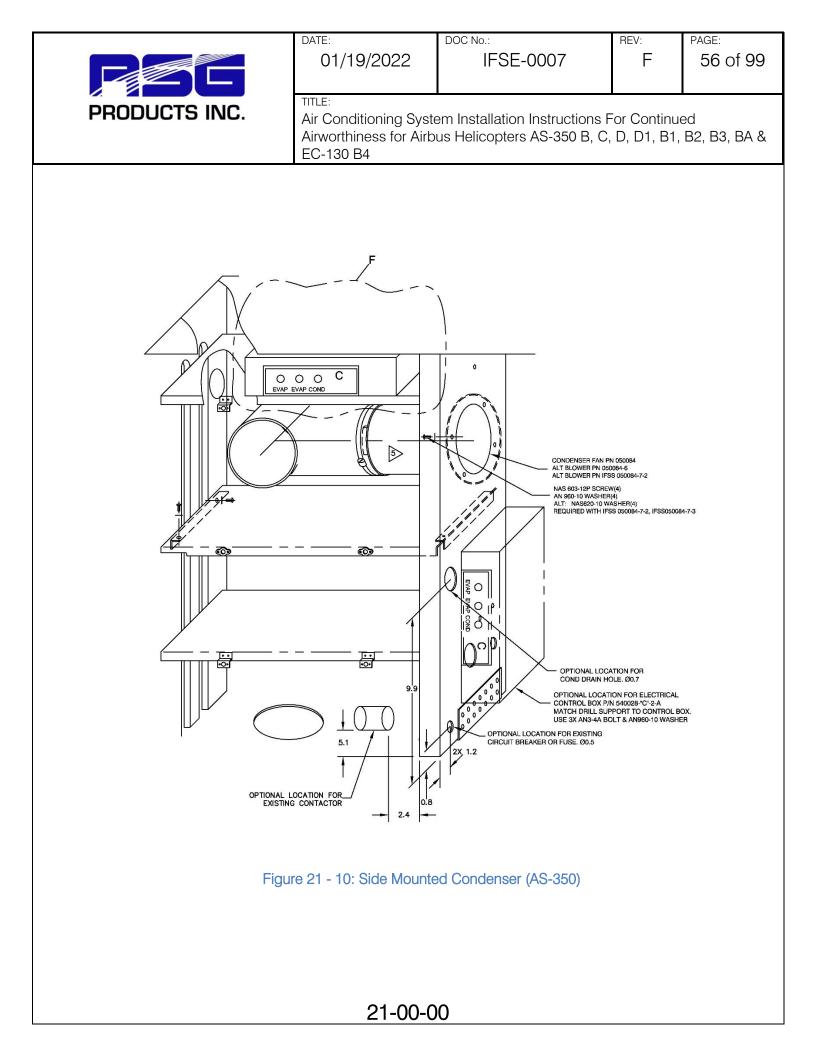
b) Installation

- 1) Place condenser back in location.
- 2) Loosely install all hardware securing condenser assembly. Tighten mounting hardware only after all other hardware is installed.
- Remove protective caps from refrigerant lines. Inspect that O-rings are installed and in good condition. Oil all O-rings and fittings with refrigerant oil of the same type listed on the compressor.
- 4) Install refrigerant lines. Torque refrigerant lines as follows: #6 11-13 ft./lbs.; #8 15-20 ft./lbs.; #10 21-27 ft./lbs. Do not over tighten.
- 5) Charge system in accordance with Section 12-10-00

EC-130 B4

6) Install 5" duct P/N: 060004





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5. Removal / Installation - Compressor

(Ref figure 21-11)

a) Removal

- 1) Access the compressor (Ref Section 6-00-00 Dimensions and Access)
- 2) Reclaim refrigerant in system in accordance with Section 12-10-00, to remove coolant from system.
- 3) Remove refrigerant lines from compressor and install protective caps to protect from foreign material entering system and compressor.
- 4) Disconnect drive belt to compressor.
- 5) Remove bolts securing compressor to mount and remove compressor.

b) Installation

- 1) Install compressor loosely on support frame with attaching hardware.
- 2) Install drive belt.
- Tighten compressor bolts allowing compressor to "Seek" its own natural position on the frame. Tighten compressor belt tensioning bolt to 50 lbs. belt tension for PN 060018-1 Flat Belt, or 30 lbs. tension for PN 060005 Grooved Belt.
- 4) Tighten and safety all compressor mounting bolts.
- 5) Remove protective caps from refrigerant lines and compressor. Inspect the O-rings from installation and condition. Replace as necessary.
- 6) Oil all fittings and O-rings.
- 7) Install refrigerant lines.
- 8) Torque refrigerant lines: #6 11-13 ft./lbs.; #8 15-20 ft./lbs.; #10 21-27 ft./lbs. Do not over tighten.
- 9) Charge system in accordance with Section 12-00-00.
- 10) Install previously removed cowlings.

21-00-00

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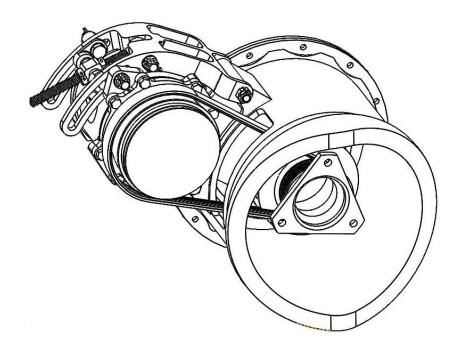


Figure 21 - 11: Compressor

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6. Troubleshooting guide

Symptoms	Trouble	Cause	Correction
-Insufficient cooling -Low-side pressure too low -High -side pressure too low -Air in ducts only slightly cool	Low or partial refrigerant charge	Leak	Find and fix the leak. If there was a loss of oil, be sure to check to compressor oil level. Evacuate and recharge per section 12.10.00
 Insufficient cooling during hottest part of the day or during extended flying. Low-side pressure normal, though it may be too low or even a vacuum High-side pressure normal, though it may be low-at the same time low side is low Air in the ducts is usually cold, but becomes warm when pressure reading drop 	Excessive moisture in the system	The desiccant in the drier/receiver is saturated	Replace or rebuild the receiver/drier. Evacuate and recharge per section 12.10.00
 Insufficient cooling Low-side pressure normal, but does not drop when the clutch cycles High-side pressure high Air in ducts only slight cool 	Air in the System	Refrigerant contains non-condensable in the form of air moisture	Leak test, watch for bad compressor seals. Drain the system. Repair leaks as needed. Replace or rebuild the receiver-drier. Check the compressor oil. Evacuate and recharge per section 12.10.00.
 No cooling Low-side pressure too high High-side pressure too high Liquid line very hot Air in ducts is warm 	Condenser malfunction or system overcharge	Condenser malfunction or system overcharge	Evacuate and recharge per section 12.10.00 or replace condenser.

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Section 21-10-00 Illustrated Parts List

1. General

This section contains information on parts for the Air Conditioning System Installation, for use in ordering replacements if necessary.



Air Outlets

RSG PN: 520071-1 **Condenser Air Intake Assembly Low Profile** (Sliding Door)



RSG PN: 500001 Left Side Air Outlet



RSG PN: 500002 Right Side Air Outlet





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Air Outlets	<u>S</u>			
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		RSG PN: 520 ⁻ Air Outlet AS350 4 EC130 4	t L.H.	<u>01</u>
		RSG PN: 52 Air Outle AS350 4 EC130 4	et R.H.	



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Blower Motors



RSG PN:IFSS 050143-2 DCB -3 DCB 5" Vane Axial Blower Assembly



RSG PN: 050052-1 Blower Motor, Modified Right Half



RSG PN: 490017-1-02 Aft Evaporator Fan Assembly

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Blower Motor Part



RSG PN: 040004-8 Fan Wheel CW



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<u>Compress</u>	or Parts			
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Compressor Parts



RSG PN: 060005 24.3" 4 Groove Serpentine Belt







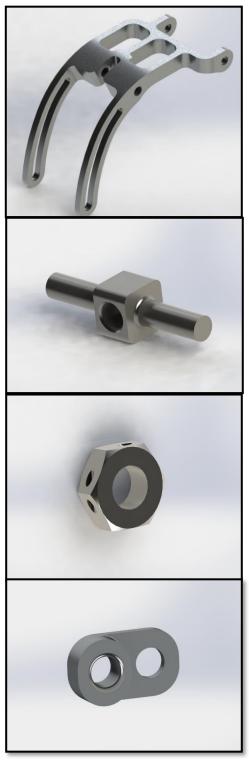


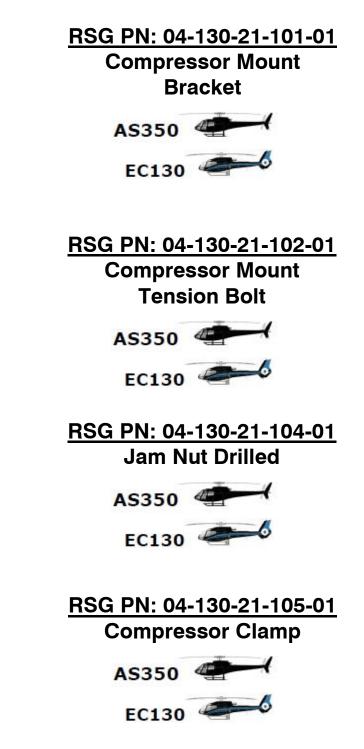
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Compressor Bracket/Parts





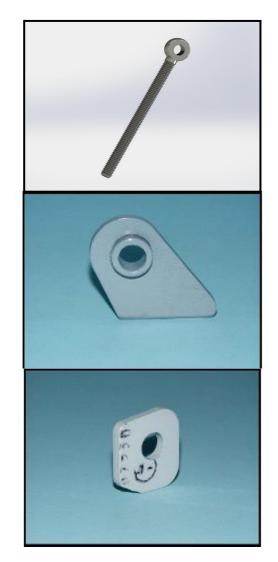


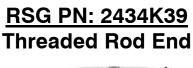
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Compressor Bracket/Parts







RSG PN: 530100-1 Strap, Housing Mod Assembly



RSG PN: 300363-2 Compressor Shim, Upper (Alt: 261155 not shown)





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Compressor Bracket/Parts



RSG PN: 300067-1 Compressor Standoff



RSG PN: 261007 Bushings, SD507



RSG PN: 300095 Compressor Pin





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Condenser/Evaporator



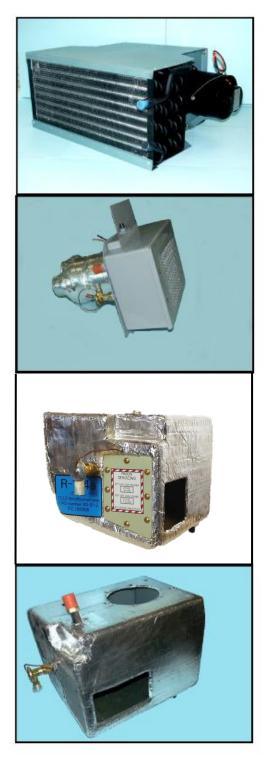




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Condenser/Evaporator



RSG PN: 550022 Aft Condenser Assembly



RSG PN: 560004 Fwd Evaporator Assembly



RSG PN: 560010-O-5 Aft Evaporator Assembly



RSG PN: 560016-O-1 Aft Evaporator Assembly EC130



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Condenser/Evaporator



RSG PN: 560025-O-01

<u>-02</u>

Fwd Evaporator Assembly





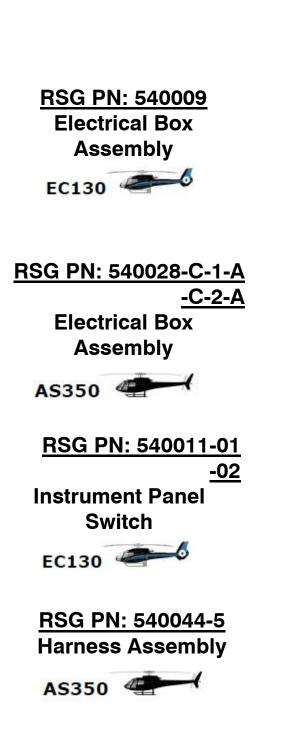
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Electrical Parts







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Electrical Parts







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Electrical Parts



RSG PN: 050000 Switch with Button



RSG PN: 050001 Switch without Button





RSG PN: 050006 Switch without Button



RSG PN: 050006-2

Switch with Button

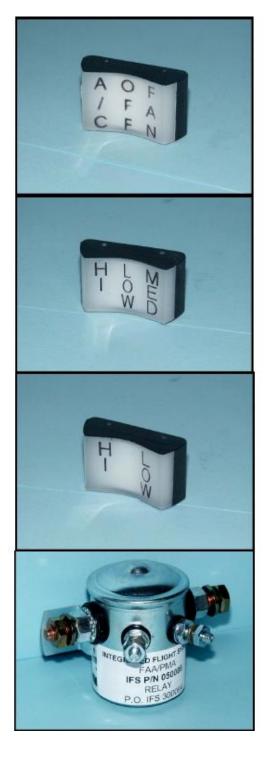


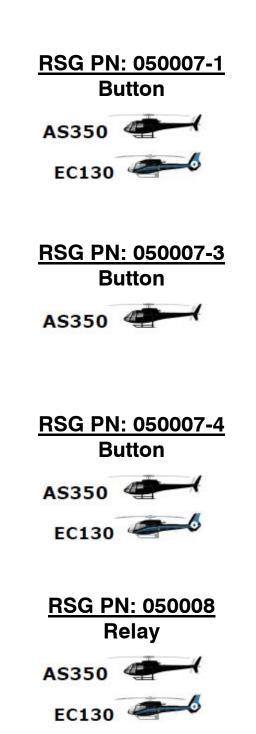


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Electrical Parts







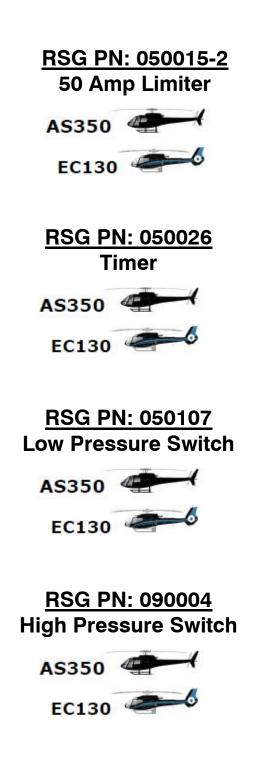
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Electrical Parts







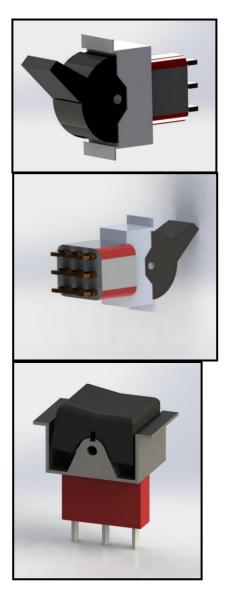
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Electrical Parts



RSG PN: 7303J21ZQI22 Switch, 3PDT, 3 POS.



RSG PN: 7301J21ZGE22 Switch, 3PDT, 3 POS.



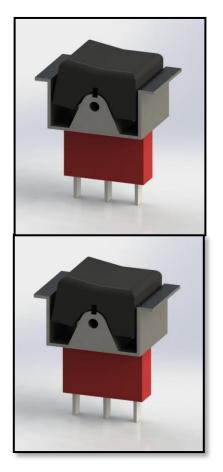
RSG PN: 7301J11ZQE22 Switch, SPST, 2 POS.

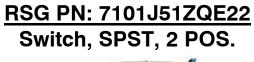
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Electrical Parts







RSG PN: 7203J51ZQE22 Switch, DPDT, 2 POS.





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EC130 Hoses



RSG PN: 570103 High Pressure Hose #6 Assembly EC130 4

RSG PN: 570104 Condenser to **Receiver/Drier Hose #6** Assembly



RSG PN: 570105 **Return Hose #10** Assembly





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AS350 Hoses



RSG PN: 570067-O-A Hose Assembly #6 **Condenser to Drier**



RSG PN: 570070-O-A-01 Hose Assembly #8 **Compressor Discharge**



RSG PN: 570070-O-A-02 Hose Assembly #8 **Compressor Discharge**



RSG PN: 570020-O-A Hose Assembly #6 **Condenser to Drier**

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Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4

AS350 Hoses



RSG PN: 570024-O-A-01 Hose Assembly #8 Compressor Discharge



RSG PN: 570024-O-A-02 Hose Assembly #8 Compressor Discharge



RSG PN: 570072-O-A Hose Assembly #6 Fwd Evaporator to Receiver/Drier





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TITLE:

Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4

AS350 Hoses



RSG PN: 570087-O-A-01 Hose Assembly Fwd Evaporator to Aft Evaporator to Compressor



RSG PN: 570087-O-A-02 Hose Assembly Fwd Evaporator to Aft Evaporator to Compressor





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IC.	TITLE: Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4			

BRUSHLESS BLOWER MOTORS



RSG PN: IFSS 050084-7-2 7" DC Brushless Blower Assembly Short





RSG PN: IFSS 050084-7-3 7" DC Brushless Blower Assembly Long





DATE:	
01/19/2022)

TITLE:

Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4

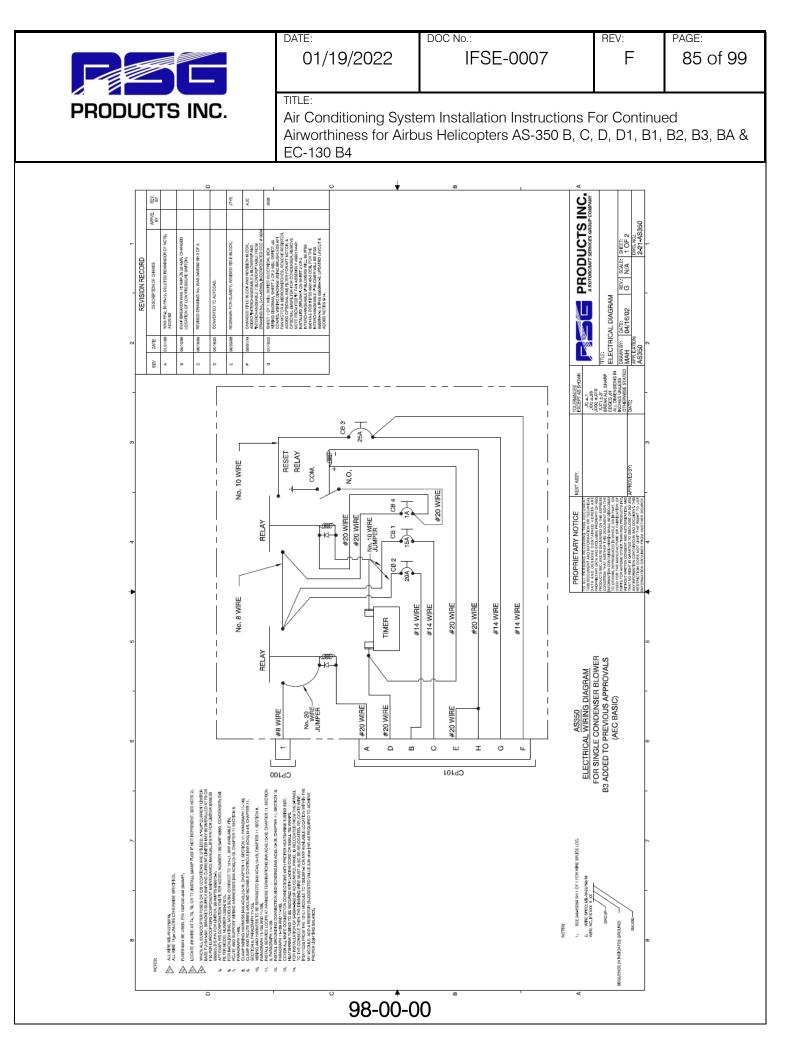
LIST OF CONSUMABLE MATERIALS

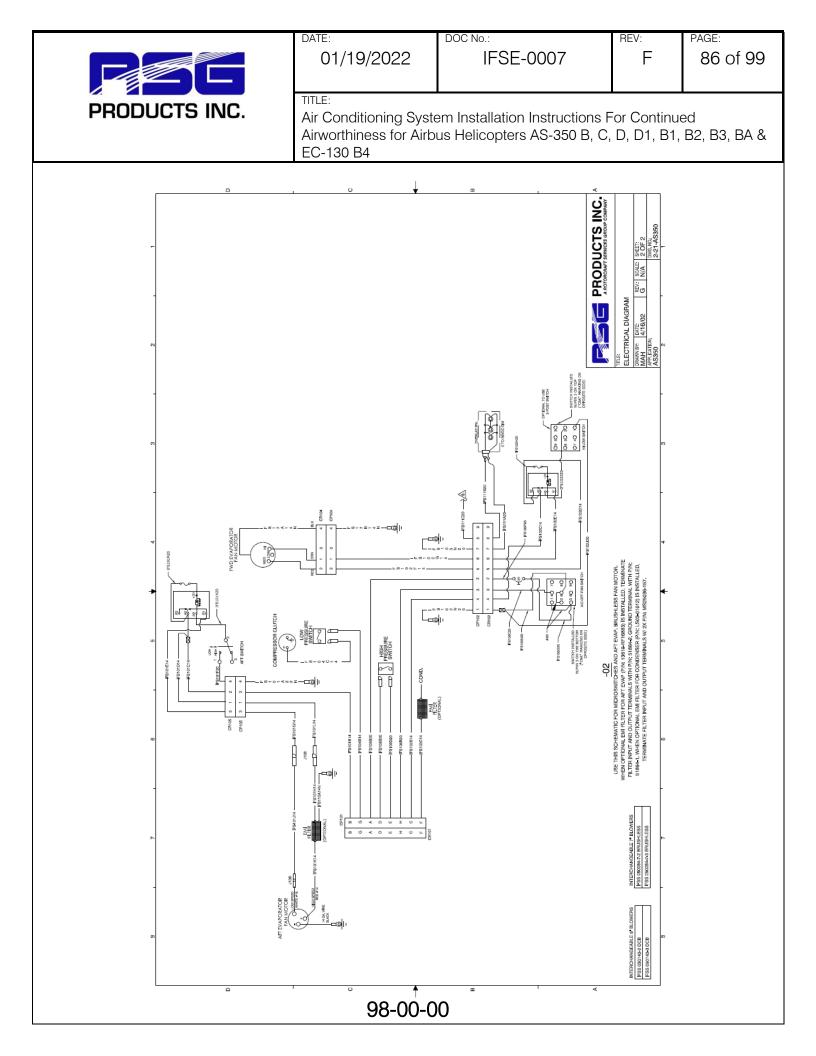
DESCRIPTION	P/N	VENDOR/SPECIFICATION
THREAD LOCK	242	LOCTITE
ADHESIVE	1300L	3M
Cleaning cloth, Low-Lint		Commercial
Mineral Spirits, Cleaning Solvent		MIL-PRF-680, TYP II OR ASTM-D235
Alodine	Alodine 1200	
Alodine	Iridite 14-2	
Paint Stripper	Turco 5873	
Polyamide Paint Primer		
Dye Penetrant Kit		
Acetone		ASTM-D329
Isopropyl Alcohol		TT-I-735
Trichloroethane		MIL-T-81533
Nylon Scouring Pad	(3M) Scotchbrite 63	3M
240 Grit Sandpaper		Commercial
320 Grit Sandpaper		Commercial
240 Grit Aluminum Oxide Abrasive		Commercial
Cloth		Commercial
Sealant		MIL-S-8802
Adhesive transfer tape 950 (2")	70-0060-3057-4	3M
Refrigerant	R134a	

Chapter 98

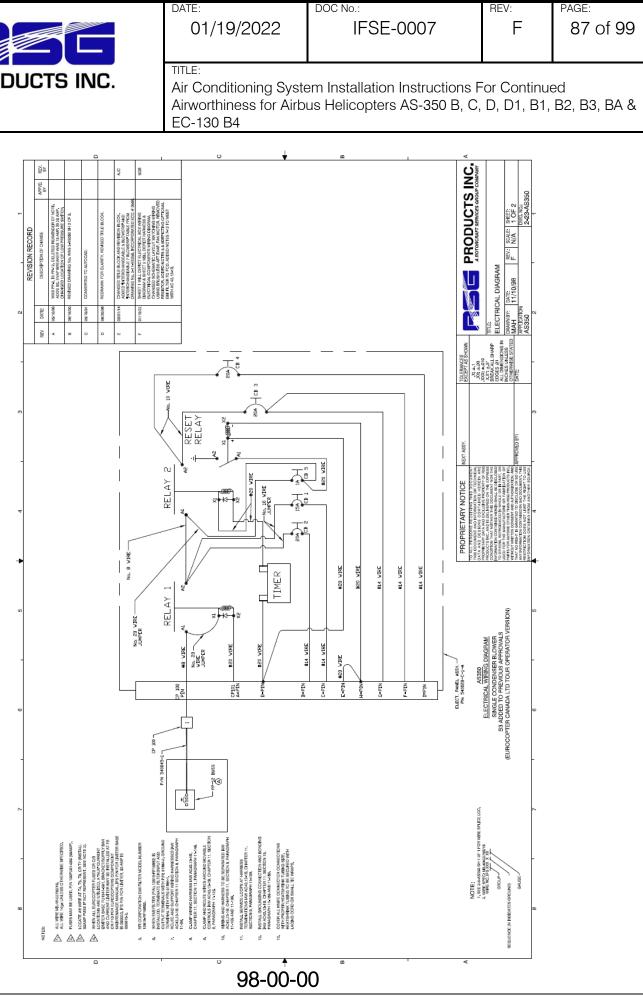
Section 98-00-00 Wiring Diagrams and Plumbing Schematics

This section contains all applicable wiring diagrams and plumbing schematics.











DATE:

01/19/2022

TITLE: Air Conditioning System Installation Instructions For Continued

IFSE-0007

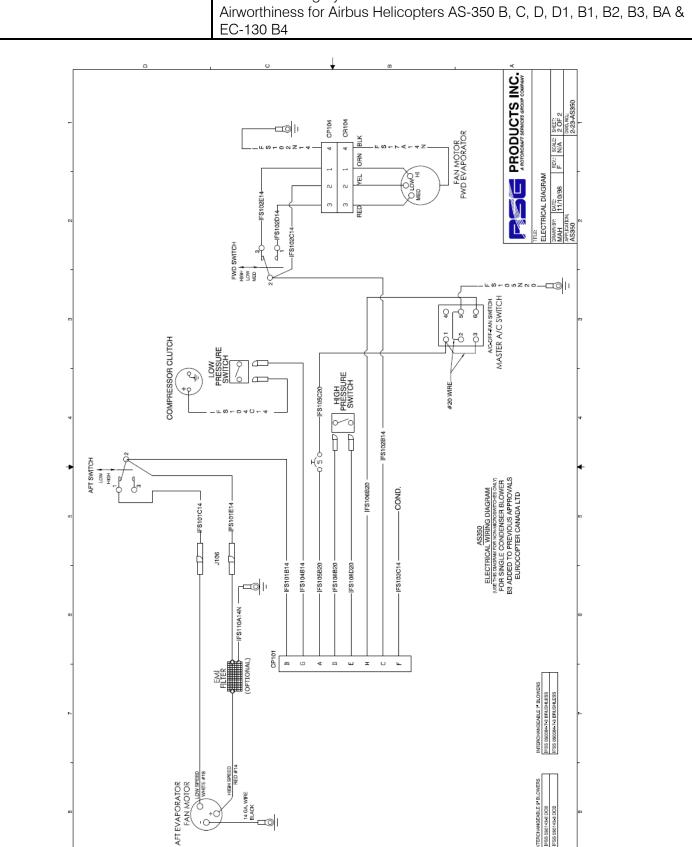
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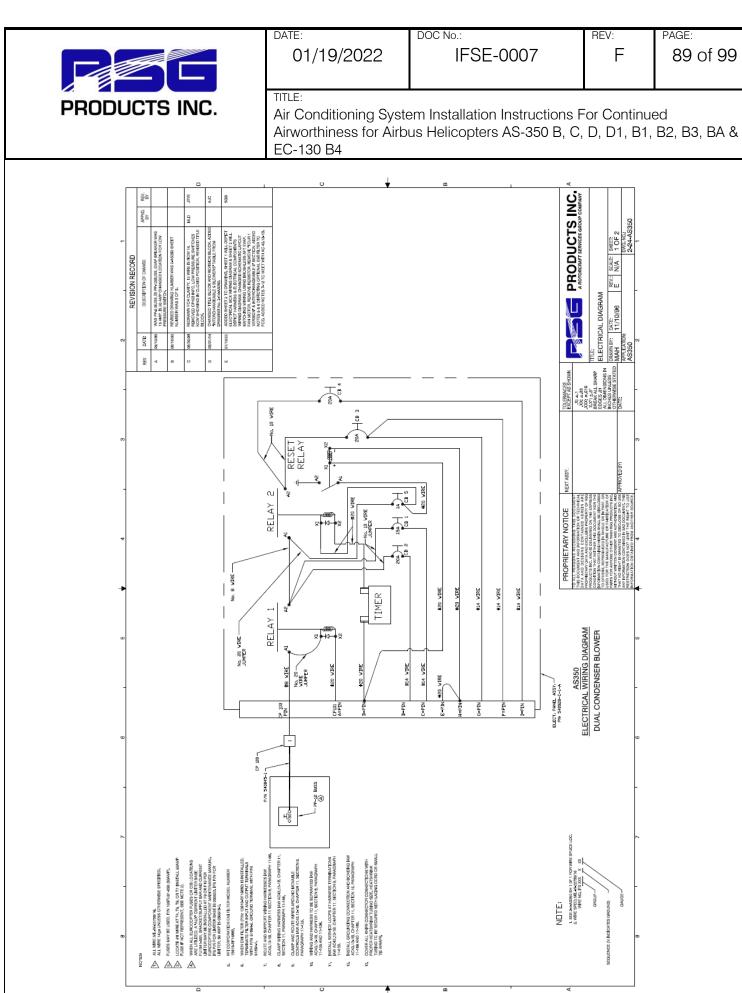
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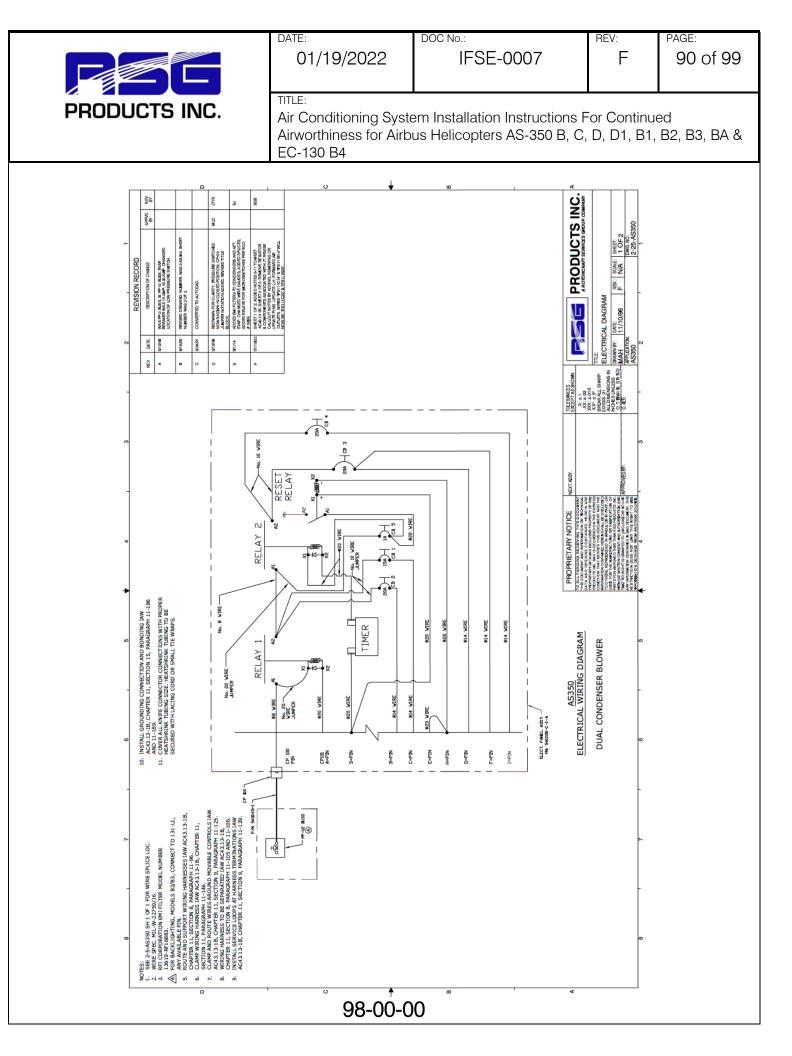
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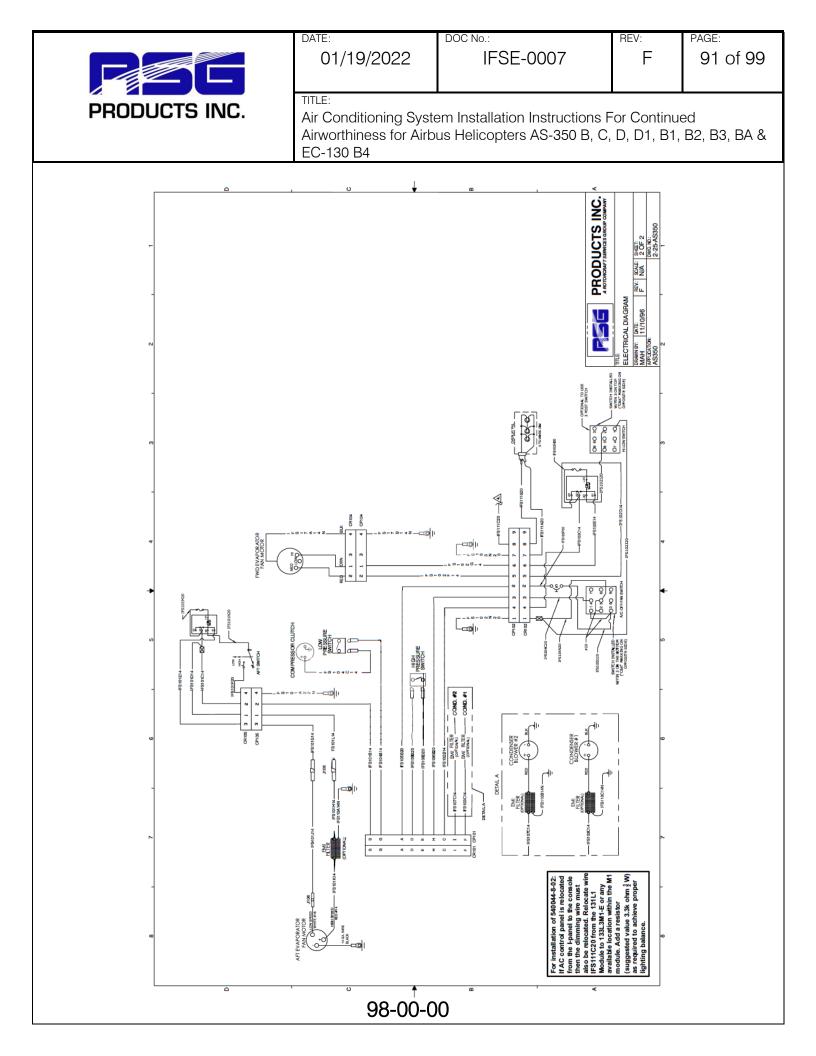
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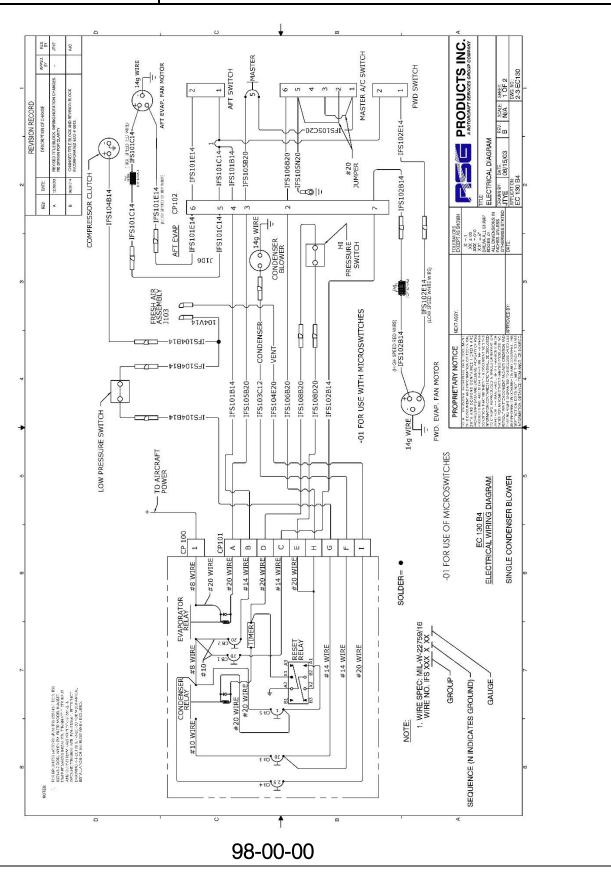


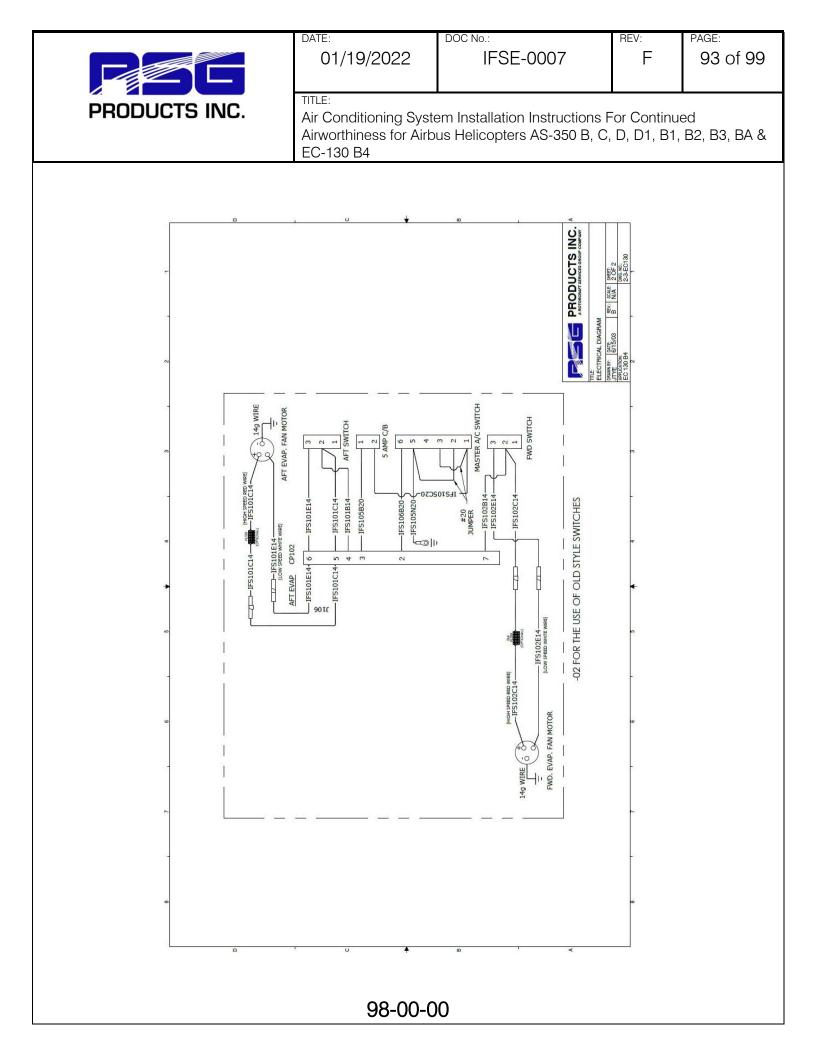
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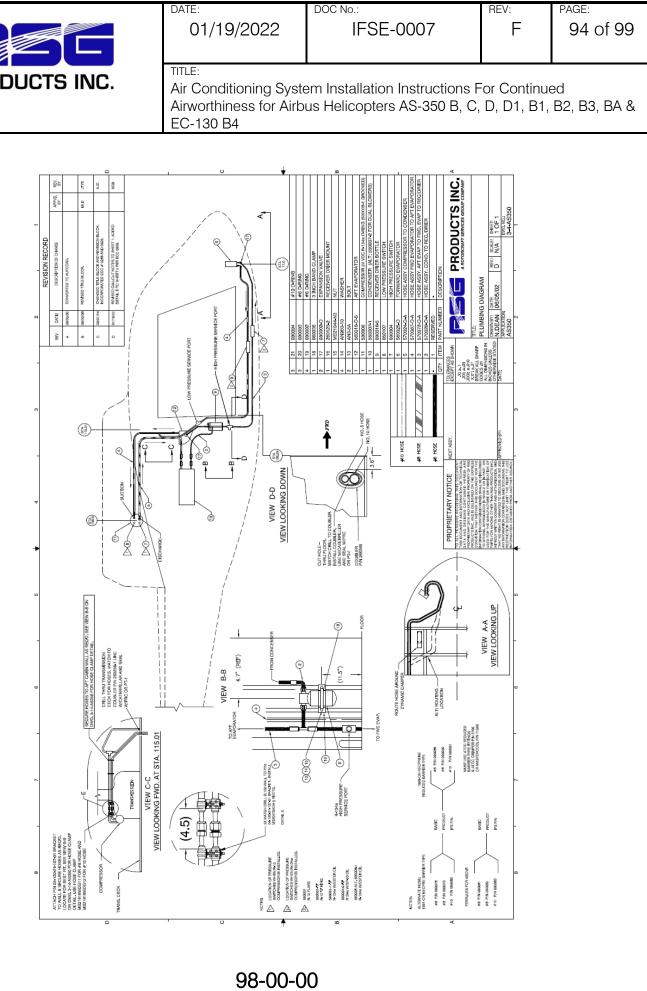
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Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4











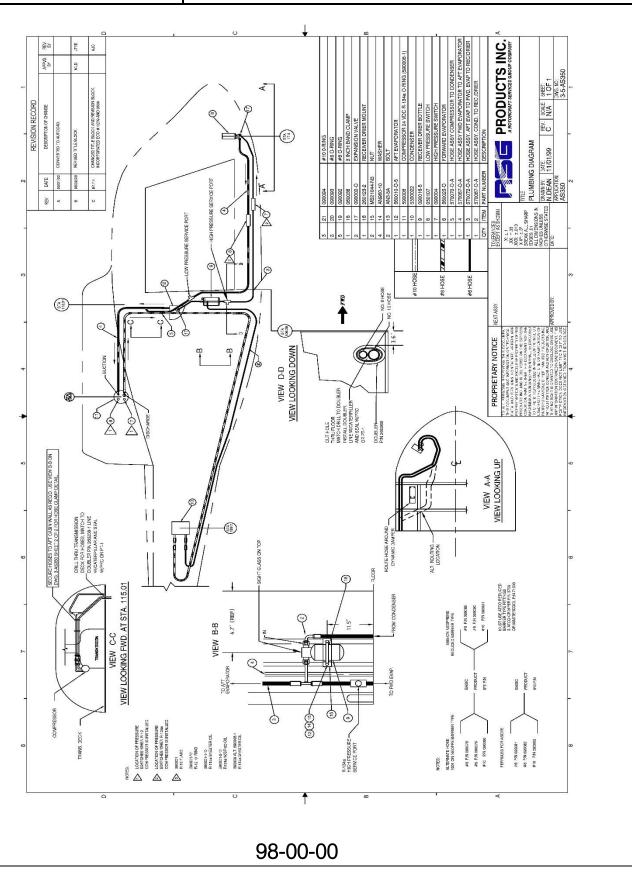
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Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4





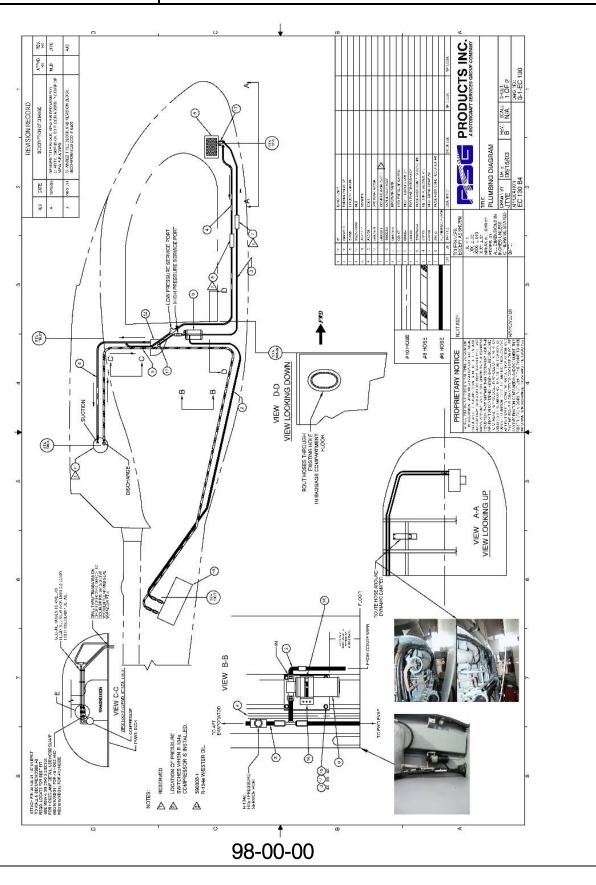
DATE:
01/19/2022

DOC No.: IFSE-0007 REV:

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TITLE:

Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4





JC. TITLE: Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4		DATE: 01/19/2022	DOC No.: IFSE-0007	rev: F	PAGE: 97 of 99
	IC.	Air Conditioning Syste			

APPENDIX A Weight and Balance

PERTAINS TO KIT #350-00-011

ITEM	WEIGHT	ARM	MOMENT
Forward Evaporator Assembly	10.0	19.00	190.00
Forward Air Outlets	4.0	31.32	125.28
Aft Evaporator and Return Air	9.0	120.00	1080.90
Aft Evaporator Blower	6.0	120.85	725.10
Condenser Coil and Mount	20.0	133.80	2676.00
Condenser Blower and Mount	8.0	148.60	1188.80
Compressor and Mount	12.0	147.80	1773.60
Electrical Relay Panes	4.0	153.70	614.80
Refrigerant, Hoses and Fittings	6.0	76.90	461.40
Sub Total: (Air Conditioner)	79.0	111.85	8835.88



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UCTS INC.		em Installation Instructions F us Helicopters AS-350 B, C,		
	PERTAINS TO KIT #	350-00-031		

PERTAINS TO KIT #350-00-031

ITEM	WEIGHT	ARM	MOMENT
Forward Evaporator Assembly	10.00	19.00	190.00
Forward Air Outlets	4.00	31.32	125.28
Aft Evaporator and Return Air	9.00	120.00	1080.90
Aft Evaporator Blower	6.00	120.85	725.10
Condenser Assy. & Mount w/ Dual condenser blowers	28.20	201.80	5690.76
Compressor and Mount	15.00	147.80	2217.00
Electrical Relay Panes	4.0	153.70	614.80
Refrigerant, Hoses and Fittings	9.00	76.90	692.10
Sub Total: (Air Conditioner)	85.20	133.05	11,335.94



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TITLE:

Air Conditioning System Installation Instructions For Continued Airworthiness for Airbus Helicopters AS-350 B, C, D, D1, B1, B2, B3, BA & EC-130 B4

PERTAINS TO KIT # 130-00-031

ITEM	WEIGHT	ARM	MOMENT
FWD. EVAP ASSY W/ MOTOR	12.0	24.0	288
FWD AIR OUTLETS (x2) W/ DUCTING	3.0	33.29	99.87
AFT EVAP W/ MOTOR & DUCTS	16.0	120.5	1928
CONDENSER ASSY W/ MOTOR & AIR DISCHARGE	33.0	223.3	7368.9
COMPRESSOR W/ MOUNTING KIT	14.0	147.8	2069.2
ELECTRICAL CONTROL BOX	4.0	153.7	614.8
REFRIGERANT HOSES	5.0	76.9	384.5
ELECTRICAL HARNESS	3.5	70.0	245
INSTALLATION TOTALS	90.5	143.62	12998.27

Step 13

Parts Break Down

Page 1 of 6

PARTS LIST (PARTIAL)

IN

ALL AS350 SERIES

FOR

KIT # 350-00-011-HP

with

(SINGLE CONDENSER BLOWER)

"ESTER OIL EQUIPPED COMPRESSOR" Model: SD-507

Revised: Au

August 13, 2022

June 1, 2015 January 28, 2011 November 4, 2009 August 28, 2006 February 1, 2002 March 1, 2001 August 6, 2001

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MASTER PARTS LIST

AS350 SERIES

KIT #350-00-011HP

SINGLE CONDENSER BLOWER

ITEM	DESCRIPTION	PART #
1.	BELT - FLAT	060018-1 060018 (Alt)
	BELT - GROOVED	060005
2.	SD-507 COMPRESSOR ASSEMBLY COMPLETE W/ FLAT PULLEY, 24 VDC COIL (FOR USE WITH R-134a ONLY, "ESTER oil equipped)	590008
	SD-507 COMPRESSOR ASSEMBLY COMPLETE W/ GROOVED PULLEY, 24 VDC COIL (FOR USE WITH R-134a ONLY, "ESTER oil equipped)	590008-1
	COMPRESSOR PARTS	

FOR: SD-507 W/ 5.0" CLUTCH

 3.
 24 VDC COIL (GREEN WIRE)
 050033

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08/13/22

EVAPORATOR BLOWER PARTS

<u>ITEM</u>	DESCRIPTION	PART #
4.	5" VANE AXIAL BLOWER ASSY. (SINGLE FLANGE W/NYLON BLADE) For: AFT EVAPORATOR BLOWER ASSY P/N 490017-1-02	IFSS 050143-2 DCB
5.	MOTOR, FORWARD EVAPORATOR 24VDC, single shaft, right hand	050052-1
6.	WHEEL, FORWARD EVAPORATOR, fan, metal, CC rotation, 5/16" bore	040004-8
	CONDENSER BLOWER PARTS	

7.	7" DC BRUSHLESS BLOWER ASSY. (Short Housing)	IFSS 050084-7-2
8.	7" DC BRUSHLESS BLOWER ASSY. (Long Housing)	IFSS 050084-7-3

<u>ITEM</u>	DESCRIPTION	PART #
9.	RECEIVER/DRIER 1991 & ON – "O" RING TYPE	090016-5
10.	EXPANSION VALVE 1991 & ON – FWD. AND AFT EVAP. "O" RING TYPE	090002-"O"
11.	HIGH PRESSURE SAGERY SWITCH (ALL YEARS)	090004
12.	LOW PRESSURE SAFETY SWITCH	050107

Reference Illustrated Parts List section 21-10-00 in ICA for additional replacement parts

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RSG Products Inc.

Pressure Switch Identification

for all

vapor cycle air conditioning kits

using R-134a

Low Pressure Switch: P/N 050107

Leads are: **BLUE** in color

Mfg. P/N on switch: 20PS003MA022C007C

Opens: 7PSI Closes: 22 PSI

High Pressure Switch: P/N 090004

Leads are: BLACK in color

Mfg. P/N on switch: 20PS002MB375K265K Opens: 375 PSI Closes: 265 PSI

ALT. Mfg. P/N on switch: 20PS104MB350K250K Opens: 350 PSI Closes: 250

PSI P/N 090004 (Both Types)

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RSG Products, Inc. TOC/Warranty/RMA – AS350 Air Conditioning

Step 14

TOC/Warranty/RMA

Date:08/13/22Section 14:TOC/WARRANTY/RMA(EFFECTIVE DATE 08/13/21)Page 1 of 7



Standard Terms and Conditions of Sale

1. Terms of Payment: Unless prior arrangements are made to establish credit terms RSG Products Inc., all sales are prepaid in full prior to shipment. Payment may be made via cash, check or electronic transfer to RSG Products Inc. prior to delivery.

2. Buyer's Deposit: A 50% deposit is required to process an order for an air conditioning kit. The deposit is non-refundable and will be applied to the final price of the kit.

3. Taxes / **Other Charges:** Prices of the specified products are exclusive of all city, state, federal and international taxes, duties, levies or charges of any kind, including, without limitation, taxes on manufacture, sales, receipts, gross income, occupation, use and similar taxes or other charges. Whenever applicable, any taxes or other charges shall be added to the invoice as a separate charge to be paid by Buyer.

4. Shipment and Packaging: All products will be suitably packed, marked and shipped F.O.B. RSG Products Inc. Fort Worth Texas, in accordance with standard packaging procedures.

5. Delays: RSG Products Inc. will not be liable for any delay in the performance of orders or contracts, or in the delivery or shipment of goods, or for any damages suffered by Buyer by reason of such delays.

6. Technical Advice: RSG Products Inc. technical support staff is available for telephone consultation concerning the products it manufactures; however, RSG Products does not warrant or guarantee such advice. 7. Aircraft Variation: Due to aircraft manufacturing variations, alterations and other factors, there are differences between aircraft of a certain make and model. Because of these variations, RSG Products Inc. does not guarantee that Buyer has purchased the correct product or that a specified product will fit the intended aircraft. Further, RSG Products does not guarantee the number of labor hours required to install its products.

8. Returns: All sales are final unless a return is approved at the sole discretion of RSG Products Inc. If RSG Products Inc. does agree to accept a return, **25% restocking fee will be charged for all parts returned**. If RSG Products Inc. does agree to accept a return, **50% restocking fee will be charged for all AC Kits returned**. All items returned to RSG Products Inc. must be sent freight prepaid and must have a return material authorization (RMA) number clearly marked on the shipping container.

9. No Fault Found: If items are sent to RSG Products Inc. for evaluation and no problem is found, or if Buyer elects not to make the required repairs, then Buyer shall be responsible for the payment of **\$300** evaluation fee.

10. Certificate of Conformity: RSG Products Inc. will provide a Certificate of Conformity with each product assuring that the product has been manufactured according to its approved design drawings. Any additional assurances or certifications shall be at the expense of Buyer and shall be added to the invoice as a separate charge to be paid by Buyer.

11. Failed Products: Should any product prove defective, RSG Products Inc. will either replace the item or adjust the matter fairly and promptly, but under no circumstances shall RSG Products be liable for consequential or other damages, losses, or expenses in connections with or by reason of the use or liability to use products purchased for any purpose.

12. Patents: Buyer shall hold RSG Products Inc. harmless from, and release and not make claim or suit against RSG Products because of any suits, claims, losses, or other liability made against, or suffered by, Buyer arising from any claim of, or infringement of, patent, copyright, trademark, or other proprietary right, at common law, or claim of unfair trade or of unfair competition, resulting from, or occasioned by Buyer's use, possession, sale, or delivery of the products sold to Buyer by RSG Products Inc.

13. Warranty Registration and Claims: The terms RSG Products Inc. Limited Warranty is written on the Warranty Registration Card and published on the Rotorcraft Service Group, website

<u>www.rotorcraftservices.com</u>. The registration form must be completed and returned to RSG Products Inc. within 1 month of receipt of a product. Failure to complete the Warranty Registration Card may result in denial of a claim. In order to process a warranty claim, complete the Warranty Claim Form found under Customer Support on our website and e-mail to <u>info@rotorcraftservices.com</u> or fax to +1 817 624 6603, or call RSG Products Inc. at +1 817-624 6600. A Warranty Claim without a Return Material Authorization (RMA) Number will cause delays and a possible denial of the claim.



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14. Acceptance: This is not a firm offer and may be changed or revoked at any time. Acceptance of this offer is expressly limited to the exact terms contained herein, or as may be changed by a prior written contract between the Buyer and RSG Products Inc., and any attempt to alter or omit any of such terms shall be deemed a rejection and a counteroffer.



Warranty Policy

RSG Products Inc., warrants that each of its Air Conditioning Systems (the "Equipment") shall be free from defects in material and workmanship under normal use and service until one year after its date of invoice if, and only if, installation, maintenance and operation of the Equipment is in accordance with the specifications and instructions provided by RSG Products Inc. and no substitute parts are installed in accordance with the specifications and instructions provided by RSG Products Inc. and no substitute parts are installed in the equipment without the prior written authorization from RSG Products Inc.. For the complete kit and its components, the warranty period is 12 months or 1,000 hours, whichever comes first, from the date of shipment/invoice date. If the Warranty Registration Form is completed and returned within 1 month of receipt of product, warranty terms will be extended from 12 months to 18 months. In the case of new spare parts, this warranty is limited to a period of 6 months from the date of invoice. In the case of rebuilt products, this warranty is limited to a period of 3 months from the date of shipment/invoice date. Any claims under this warranty shall be made to RSG Products Inc., 440 West Lane, Suite 100, Saginaw, Texas 76131, USA. Warranty is not valid unless the Warranty Registration Form is completed and returned to RSG Products Inc. prior to any claim. The Warranty Claim Request Form must be completed to receive an RMA Number and the required documentation to be returned with the Equipment. A Warranty Claim without a Return Material Authorization (RMA) Number or a completed Warranty Registration Form will cause delays and a possible denial of the claim. All claims shall be handled according to standard warranty repair procedures.

Limitations & Exclusions. This warranty shall not apply to any Equipment repaired or altered outside the Rotorcraft Services Inc. Service Department unless express prior written authorization is granted: nor shall this warranty apply to any Equipment that has been subjected to misuse or accident, as determined solely by Rotorcraft Services Inc. The sole responsibility and liability of RSG Products Inc. and your exclusive remedy under any claim arising out of, connected with, or resulting from this sale or the performance or breach or any condition of warranty there under, or from the manufacture, delivery, or use of the Equipment shall be the repair or replacement of defective equipment upon return of the defective equipment to RSG Products Inc. with transportation, customs and any applicable import duties prepaid and provided that an inspection by RSG Products Inc. discloses that the equipment is defective and covered by this warranty. RSG Products Inc. shall not be liable for any labor or other charges necessary to remove or reinstall the Equipment. In no event, whether as a result of a breach of contract, warranty, tort (including negligence) or otherwise, shall RSG Products Inc. be liable for any special, consequential, incidental or penal damages or expenses including but not limited to loss of profit, goodwill or revenues, loss of use of the Equipment or any associated equipment, damage to associated equipment, cost of capital, cost of substitute products, facilities or services, down time, or costs or claims of third parties for such damages or expenses.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OR REMEDIES WHETHER WRITTEN, ORAL, IMPLIED OR STATUTORY, ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF DEALING OR USAGE OF TRADE ARE HEREBY EXPRESSLY DISCLAIMED AND EXCLUDED. Acceptance of the Equipment by you shall constitute your acknowledgement and acceptance of the terms, provisions, limitations and exclusions set forth herein. Such term, provisions, limitations and exclusions shall not be modified, deleted or supplemented. In a case where the purchaser has negotiated warranty terms by express written agreement with RSG Products Inc. as to certain equipment, the terms of that agreement shall supersede the warranty.

Extended Warranty. The extended warranty that is available for a fee at time of original purchase of the new product applies an 18 month period to the foregoing warranty.



WARRANTY REGISTRATION FORM

DATE:
CUSTOMER NAME:
ADDRESS:
CITY: STATE: ZIP:
PHONE NUMBER: ()FAX NUMBER:()
COMPONENT NAME:
PART NUMBER:SERIAL NUMBER:
TYPE AIRCRAFT: N#:S/N:
AIR CONDITIONING INSTALLATION DATE:
AIR CON. INSTALLATION COMPANY:
DATE INSTALLED: T.T AT INSTALLATION:
COPY OF T.T. LOG BOOK ENTRY OF A/C INSTALL SIGN OFF.
<u>This Form Must be received from the Owner of the Aircraft for the warranty to be active.</u> Warranty period extends from Date of Purchase for a period of one year or 1000 hours
Subject to the limitations identified in the attached Warranty Terms; effective 22 February 2007

PLEASE REVIEW THE ATTACHED WARRANTY POLICY PRIOR TO SUBMITTING THIS REGISTRATION FORM.

Return Material Authorization (RMA) Form



RMA Number:	
Date Issued:	
lssued by:	

RMA Instructions: Products purchased through RSG may be returned by following	Company Name	
these steps:	Address	
1. Contact RSG at 817-624-6600		
or info@rotorcraftservices.com to notify Customer Support of needed RMA.	City	
2. Completely fill out this form, and email it to Customer Support,	State	Zip/Postal Code
who will provide an RMA number. Print completed RMA form & place in the box with the item(s)	Country	
being returned.	Phone	
3. Clearly mark the outside of the box with the RMA number.	Number	
4. Ship the item(s) to:	Contact Name	
RSG Products, Inc. 440 West Ln., Suite 100 Saginaw, TX 76131	Email	
Please refer to RSG's Warranty Policy and RMA Policy for complete details regarding product returns.	Return Ship Method	Shipping Account Number

Returned Item(s)						
Part Number / Serial Number	Quantity Purchase		Invoice # or PO #	Reason for Return	Aircraft Tail # and Serial Number	

Additional Comments:

You must submit a copy of the logbook page when items being returned were installed

Disposition (To be completed by RSG)						
Returned to customer, no problem found (eval fee applies)		Non-Warranty replacement (from stock-quote issued)				
Warranty rebuild (rebuilt and returned to customer)		BER, Not rebuild-able, informed customer (<i>eval fee applies, scrap?, RTC?</i>)				
Non-Warranty rebuild (quote issued - rebuilt and returned to customer)		Warranty Replacement (from stock-no fee applies)				
Other:						

RSG Products, Inc. RMA (Return Material Authorization) Policy

All returns require an RMA number. Contact RSG Products (RSG) via telephone at 817-624-6600 or email at info@rotorcraftservices.com to obtain an RMA number. Returns will be authorized in accordance with the following policy: If it is deemed that the part should be returned, a representative from RSG will send you an RMA form. Completely fill out the RMA form and email it to Customer Support to obtain an RMA number. Once RMA is issued, place copy of RMA form, and copy of logbook entries, in the box with the item(s) being returned. Clearly mark the outside of the box with the RMA number. Products will not be accepted by RSG for return if not accompanied by a valid RMA number. Return shipping for all RMA items will be at the expense of the customer.

Stock Returns

Stock returns must be made within thirty (30) days of the invoice date. Authorization of stock returns is at the sole discretion of RSG. If a stock part is authorized for return and is a customer error, 25% of the purchase price will be applied as a standard restocking charge. Parts must be new, unused, and contain all the original packaging and paperwork (certs, 8130-3, packing slip...etc). There is no restocking fee due to errors by RSG if correct order information was furnished with the original order.

Warranty Returns

Products to be returned for warranty coverage must be within the applicable warranty period. If the customer requests that a replacement be sent immediately, a rebuilt-to-new unit (if available) will be shipped to the customer. If evaluation of the returned item shows damage or misuse, or if it is found in good working order, the replacement product will be billed to the customer's account in accordance with RSG's standard payment terms. Then, once a final decision of the return is made, a credit will be issued if the warranty claim is allowed.

Non-Warranty Returns

If the customer wishes to return a part for evaluation that is no longer within the warranty period or for damage not covered by the warranty, RSG will advise the customer of the estimated cost to rebuild-to-new. Return of the product, with a purchase order noting the quoted cost to rebuild will be considered authorization to proceed, and agreement to pay for the cost to rebuild, whether or not it exceeds the original estimate. A \$300 evaluation fee will apply to all non-warranty returns. This fee will be deducted from the total quoted to rebuild the part to new.

Transportation Charges

The customer is responsible for all transportation, insurance, duties and other similar charges for all returned items, and the customer must ensure that the product is appropriately packaged. Products shipped to RSG freight collect will be refused. Shipping damages resulting from improper packaging will be the customer's responsibility. After evaluation and/or rebuild, RSG will return the product using the method stated on the front of this form. Products will not be accepted by RSG for return if not accompanied by a valid RMA number, which must be clearly marked on the outside of the package.

RMA Closing Procedure

The RMA will be closed if RSG has not received the RMA requested items from the customer within (60) days of RMA assignment date.

Once returned parts are evaluated, if deemed non-rebuildable or BER, customer will be invoiced the \$300 evaluation fee. If customer does not respond within (60) days, RMA returned part will be scrapped on site by RSG or shipped back to the customer.

By choosing to request an RMA number from RSG, it is implied that the customer has agreed to the terms of this RSG RMA Policy.

Rev.	Desc.	Reviewed	Approved	Date				
IR	Initial Release of New Document	K. Musgraves	G. Thompson	05/21/2022				
DCC Dradueta las 140 West Las Cuita 400 Conjugue TV 70124								

RSG Products Inc. 440

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RSG Products, Inc. Trouble Shooting Guide – AS350 Air Conditioning

Step 15

Trouble Shooting

Guide

Date: 08/13/22 Section 15: TROUBLE SHOOTING GUIDE





Servicing and Trouble Shooting Guide AS350 (Series) and EC130 B4 Air Conditioning System



TROUBLESHOOTING YOUR AIR CONDITIONING SYSTEM

The following consists of some basic information on Freon System Operation.

We should probably define "cold". Actually, for our purpose, "cold" is a relative term. Your air conditioner should produce air (measured at the duct) that is:

- 36° to 50° F at 70° ambient temperature.
- • 40° to 52° F at 80° ambient temperature.
- • 46° to 60° F at 90° ambient temperature.
- • 50° to 75° F at 100° ambient temperature.

An Empty System

If the system is empty, the search for leaks should begin with a good visual check. Is it a fast leak or a slow leak? When was the system last charged? If it's a newly installed and filled system, then look for obvious leaks like a chaffed, punctured or ruptured hose, or a loose fitting. (See the recharge and leak testing section for hints on charging new systems.)

Freon leaks can be very tough to find. Freon is colorless, odorless, heavier than air, and it evaporates as soon as it hits the atmosphere. The only helpful thing about it is the fact that the oil carried with the refrigerant, so any sizable leak will leave a trail of oil at the offending hose or fitting. It will often just be a dark area, and the amount of oil might be slight. But if you find and air conditioning fitting with an oily residue and the area around it is dry, you've probably found you leak. A good electron detector can verify your visual diagnosis.

Because the system carries the oil in suspension with the refrigerant, any sizable leak will leak oil as well as refrigerant. Very slow leaks will usually only vent refrigerant and not oil, but a fast leak like a ruptured hose or a very lose fitting, will leak the refrigerant so fast that the oil is carried out of the system as well. If your system has suffered a major leak, be sure to check the oil level in the compressor before refilling the system.



Troubleshooting

Trouble: Low or partial refrigerant charge

Symptoms:

- Insufficient cooling
- Low-side pressure too low
- High-side pressure too low
- Receiver/drier sight glass shows a stream of bubbles
- Air in ducts only slightly cool

Cause: The system is low on refrigerant, probably cause by a leak.

Correction: Find and fix the leak. If there was a loss of oil, be sure to check the compressor oil level. Evacuate and recharge.

A System Full of Refrigerant

First, you should double-check all the obvious things (i.e. the compressor clutch, the belt tension, and the operation of the evaporator blower). Next, establish some baseline conditions for your testing: run aircraft, high blower and coldest thermostat setting, doors and windows closed, ambient temperature of 70° F or above.

Situations do occur where the system is full of refrigerant, yet the sight glass remains cloudy. The first thing to consider is whether the receiver/drier is install backwards. Be sure the line from the condenser goes to the port marked "in" on the receiver/drier. The other condition that might give you a cloudy glass (on a full system) is a restriction in the liquid line from the condenser to the receiver/drier. On some new receiver/driers the filter screen could be pushed up so the bottom of the screen is blocking the liquid pickup tube. You will have to cut open the receiver-drier to confirm your diagnosis.

You should test next for a system that is overcharged. If the sight glass is clear, but the highand low pressure gauge readings are high (300 or more on the high side, 50 or more on the low side), disconnect the compressor clutch. (Note that on HFC-134A systems, milky is the normal look for a correctly charge system.) The refrigerant should foam and then settle away from the glass in less than forty-five seconds. If the sight glass remains clear foe more that forty-five seconds you have an overcharged condition and will have to remove Freon.



Trouble: Excessive moisture in the system

Symptoms:

- Insufficient cooling during hottest part of the day or during extended flying.
- Low-side pressure normal, though it may be too low or even a vacuum
- High-side pressure normal, though it may be low-at the same time low side is low
- Receiver-drier sight glass may show tiny bubbles

(*Note*: This could be a tough call with HFC-134A since the sight glass is always milky).

- Air in the ducts is usually cold, but becomes warm when pressure reading drop

Cause: Excessive moisture in the system. The drying agent in the receiver-drier is saturated with moisture, which is released to the system when outside temperature increased. Moisture in the system collects and freezes on the expansion valve, stopping the flow or refrigerant.

Correction: Suck all the CFC-12 from the system. Replace of rebuild the receiver-drier. Evacuate and recharge.

Trouble: Air in the system

Symptoms:

- Insufficient cooling
- Low-side pressure normal, but does not drop when the clutch cycles
- High-side pressure high
- Receiver/drier sight glass shows occasional bubbles (Note again that with HFC-
- 134A the sight glass should be milky when the system is fully charged.)
- Air in ducts only slight cool

Cause: Refrigerant contains non-condensable in the form of air and moisture.

Correction: Leak test, watch for bad compressor seals. Drain the system. Repair leaks as needed. Replace or rebuild the receiver-drier. Check the compressor oil. Evacuate and recharge.



Trouble: Condenser malfunction or system overcharge

Symptoms:

- No cooling
- Low-side pressure too high
- High-side pressure too high
- Receiver/drier sight glass may show occasional bubbles
- Liquid line very hot
- Air in ducts is warm

Cause: The condenser is not function properly because of high head pressure. System may be overcharged.

(*Note*: Technicians will have to be especially careful to avoid overcharging HFC-134A systems. Because the sight glass is hard to read and the volume given is slightly lower with HFC-134A).

NOTE:

Cloudy Sight Glass

A cloudy sight glass indicates a system that is only partially full of refrigerant (with a few exceptions). A perfectly clear sight glass (use a light to get a good look) meaans the system is either full or empty. Note, with HFC-134A the glass appears milky when properly charged, and may show occasional bubbles.



- System has no electrical power to air conditioner master control box:
 A) Check 50 amp circuit breaker or fuse in aircraft electrical bus.
- 2. System has power but will not turn on:
 - A) Check 5 amp circuit breaker on switch assembly.
 - B) Check ground lead on cannon plug 102 wire IFS105N20.
 - C) Check evaporator fan relay in air conditioner master control box.
- 3. Forward evaporator fan will not turn on, but aft fan runs:
 - A) Check 20 amp circuit breaker in master electrical box.
 - B) Check ground wire from evaporator motor.
 - C) AS350 disconnect CP104 and check for power on pin 2. On AS350 or EC130 B4 by checking ground lead from master switch.
 - 1) If you have power, your motor is bad.
 - If no power, disconnect CP101 cannon plug and check continuity from pin 6/ c on CP101 to cannon plug CP104 pin 2. If no power, check cannon plugs and switch.
- 4. Aft evaporator fan will not run, but forward evaporator runs:
 - A) Check 20 amp circuit breaker on master electrical box.
 - B) Check ground wire from fan.



- 5. Condenser fan/fans do not operate:
 - A) Check 20 amp circuit breaker.
 - B) Check 1 amp circuit breaker.
 - 1) If popped, reset.
 - a) Check brushes.
 - b) Check power.
 - c) Check ground.
 - d) Check fins for blockage in air condenser assembly.
 - 2) Run air conditioning system.
 - a) Check pressures, If pressure is running higher than normal, then continue with b), ect...
 - b) System may be overserviced.
 - c) System may be contaminated by improper Freon or a mix of Freon's.
 - 1) **NOTE:** This has happened more than once. The service carts are great for servicing systems, but there is a danger in its misuse. Untrained operators or an individual who wants to service his car, truck, motor home or even his room A/C can pump down their system into your tank. It can have any number of different Freon's. It could also be contaminated by a failed compressor, dryer bottle, wrong oil or any number of things. This has happened to a company with brand new equipment just 3 weeks old. There were large warning signs on this service cart, designated HELICOPTER SERVICE ONLY. They had one for ground equipment. All of the mechanics were well trained except for the management, janitors and their family members of the company. It can happen to any operator.
- 6. Compressor clutch does not engage, but air conditioner fans work.
 - A) Check clutch for power.
 - 1) If power, clutch coil may be bad or air gap in clutch face may be too excessive.
 - 2) If NO power check system for total Freon loss.
 - If system is serviced and still no Power and you have an optional temperature controller, you can bypass by jumping pins 3 and 4 on CP102 to check if faulty.



- 7. System not cooling:
 - A) Check that air condenser fan/fans are blowing.
 - B) Check clutch engagement. Is clutch staying engaged or cycling? Check belt tension.
 - C) Check to see if air condenser coil is free from debris and fins are clean and not rolled over blocking air flow.
 - D) Check evaporator return air inlets, that they are not blocked and fins are clean and not rolled over blocking airflow.
 - E) Put gauges on system. Run system and check pressures also measure Delta temperature from both evaporators. (Measure inlet temperature and outlet temperature to get Delta. This is a must, do not rely on just using your hand and guessing).
 - F) Check sight glass.

(NOTE: There are several ways to service Freon systems:

- Service system to a clear sight glass R12.
 <u>Note:</u> On 134a systems the sight glass appears milky when properly charged, though there may be occasional bubbles in the sight glass.
- 2) Service system by weight. If you have a service station or scale, you can add the proper amount by weight.

82° F or higher service with 2.0 lbs max Freon.

Below 82° F service with 2.5 lbs max Freon.

- 3) The optimum method for best performance is to use at least two mechanical thermometers and place them near the return air and the discharge air of each evaporator. R-134a can then be added or deleted as required, until the highest T.D. is noted per the paragraph below. At that time, the correct amount of refrigerant is installed. At any time the high pressure gauge reaches 280 psi, stop servicing. Do not exceed 3.0 lbs of refrigerant.
- 4) Service according to a standard pressure temperature chart.)
- 8. One evaporator is cooling, one is not.
 - A) One expansion valve may be blocked form contamination.
 - B) One expansion valve may be locked full open.(NOTE: The one valve that is full open is causing the problem. It may make it seem like the other valve is bad and not working.)
 - C) One of the sensing bulbs on expansion valves may become loose from suction side of coil. Also check to see if sensing bulb is mounted to the correct evaporator tube. The bulb should be mounted at 9 or 3 o'clock position.
 - D) Hose may be crimped, kinked or have a fitting bent over blocking flow.
 - E) (**NOTE:** The recommended fix is to pump down system. Change BOTH expansion valves and dryer bottle. Make sure to mount sensing bulb on suction side of coil and when possible at 9 or 3 o'clock position on tube. Re-service system.)



- 9. Compressor clutch failure:
 - A) Low Freon in system. This causes the system to low pressure out through the low pressure switch. It will cycle the clutch on and off until it heats up causing the coil to overheat and fail, or heat up the bearing to the point the grease will liquefy and run out. This will add to the heat and help fail coil or bearing.
 - B) Air gap on clutch may have changed.
 - C) Coil may have weakened.
 - D) Bearing may have failed, causing clutch to slip and fail coil.
 NOTE: If ongoing maintenance is not maintained on compressor clutch bearing as prescribed in IFS maintenance manual, bearing may fail.
- 10. Compressor failed:
 - A) Loss of oil or insufficient oil.
 - B) Low Freon in system, causing insufficient flow of oil lubricant.
 - C) Contamination in system.
 - D) Compressor bearing failed.
 - E) Over servicing of system to the point of liquid lock. (NOTE: This has happened.)
- 11. Compressor belt failure:
 - A) Low Freon in system. Cause: low pressure switch to cycle the clutch on and off excessively.
 - B) Insufficient belt tension.
 - C) Clutch bearing dragging of failing. This causes excessive belt slipping.
 - D) Over service of system.
 - E) Air gap excessive, causes clutch to slip heating pulley. This will stretch belt making it slip.
- 12. Air conditioner runs, but pops 1 amp circuit breaker:
 - A) Check condenser fan or fans for operation.
 - B) Check blockage of air flow in and out of condenser.
 - C) Check coil to see if fins are clean or rolled over.
 - D) Check for over service of Freon.
 - E) Put gauges on and run system.
 - 1) Is system popping 1 amp circuit breaker at 350 or higher?
 - a. If not change high pressure switch.
 - F) Check expansion valves and make sure sensing bulbs are mounted to suction lines.
 - 1) Measure Delta of both evaporators.
 - a. If Delta is over 32° F expansion valve may not be working. If expansion valve is not throttling it will dump too much Freon. This can add excessive heat to condenser and can also freeze up coil.
 - 2) If Delta is below 14° F. Change valves, they may be blocked internally.



13. Fresh air supply valve inoperable. EC130 B4 only

A) If valve fails to open.

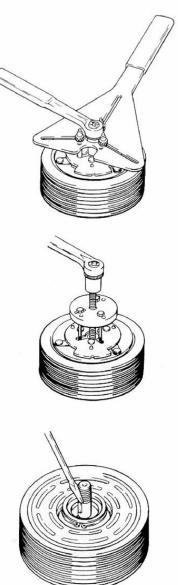
- 1) Check 2 ¹/₂ amp CB
- 2) Check for power at wire IFS 104V20
 - a. If power, check for power on wire IFS 104E20
 - 1. If no power motor/controller is bad
 - 2. If power trace back to source
 - b. If no power check continuity to Pin 1 on cannon plug CP101.
 - c. If no continuity check low pressure switch for ON.
- B) If valve fails to close
 - 1) Check for power on wires at valve IFS 104V20 and IFS 104E20
 - a. If power, both motor /controller is bad.
 - b. If no power on wire IFS 104V20.
 - a. Check 2 ¹/₂ amp CB.
 - b. Check to see if low pressure switch is open.
 - c. Check continuity from valve wire IFS 104V20 to Pin 1 on cannon plug CP101.
- **NOTE:** When running in "A/C" mode and you switch straight to "OFF" the Fresh Air Valve will stay in the closed position. You will need to switch to the "Fan" position to reset the Fresh Air valve to the open position.



SERVICE OPERATIONS CLUTCH

14.1 Armature Assembly Removal

- 1. If armature dust cover is present, remove the 3 or 6 bolts holding it in place and remove cover. If auxiliary sheet metal pulley is present, remove the screws holding it in place. Then remove pulley.
- 2. Insert pins of armature plate spanner into threaded holes of armature assembly.
- 3. Hold armature assembly stationary while removing retaining nut with 3/4", 19mm, or 14mm socket wrench, as appropriate.
- 4. Remove armature assembly using puller. Thread 3 puller bolts into the threaded holes in the armature assembly. Turn center screw clockwise until armature assembly comes loose.
- 5. If shims are above shaft key, remove them now. If shims are below shaft key, the key and bearing dust cover (if present) must be removed before the shims can be removed.
- 6. Remove bearing dust cover (if present). Use caution to prevent distorting cover when removing it.
- 7. Remove shaft key by tapping loose with a flat blade screwdriver and hammer.
- 8. Remove shims. Use a pointed tool and a small screwdriver to prevent the shims from binding on the shaft.





SERVICE OPERATIONS - CLUTCH

14.2. Rotor Assembly Removal

- 1. If bearing dust cover has not been removed, remove it now. See step 6 of Section 14.1, for Armature Assembly Removal.
- 2. If internal snap ring for bearing is visible above the bearing, remove it with internal snap ring pliers.
- 3. Remove rotor snap ring.
- 4. Remove shaft key.
- 5. Remove rotor pulley assembly:
 - Insert the lip of the jaws into the snap ring groove
 - Place rotor puller shaft protector (Puller set) over the exposed shaft.
 - Align thumb screws to puller jaws and finger tighten.
 - Turn puller center bolt clockwise using a socket wrench until rotor pulley is free.

14.3 Field Coil Assembly Removal

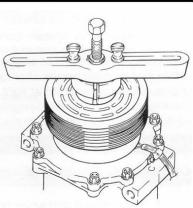
- Loosen lead wire clamp screw with #2 Phillips screwdriver until wire(s) can be slipped out from under clamp.
- 2. Undo any wire connections on the compressor which would prevent removal of the field coil assembly.
- 3. Remove snap ring.
- 4. Remove the field coil assembly.

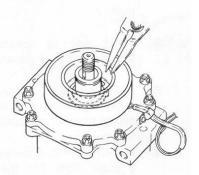
14.4 Field Coil Assembly Installation

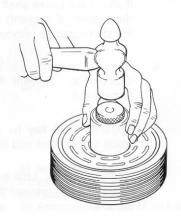
Reverse the steps of Section 14.3. Protrusion on underside of coil ring must match hole in front housing to prevent movement and correctly locate lead wire(s).

14.5 Rotor Assembly Installation

- 1. Place compressor on support stand, supported at rear end of compressor. If the compressor must be clamped in a vice, clamp only on the mounting ears, never on the body of the compressor.
- 2. Set rotor squarely over the front housing boss.
- 3. Place the rotor installer ring into the bearing bore. Ensure that the edge rests only on the inner race of the bearing, not on the seal, pulley, or outer race of the bearing.









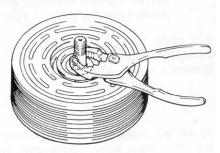
SERVICE OPERATIONS - CLUTCH

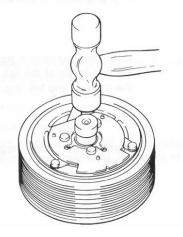
- 4. Place the driver into the ring and drive the rotor down onto the front housing with a hammer or arbor press. Drive the rotor against the front housing step. A distinct change of sound can be heard when using a hammer to install the rotor.
- 5. Reinstall rotor bearing snap ring, if it has been removed, with internal snap ring pliers.
- Reinstall rotor retaining snap ring with external snap ring pliers. If a bevel is present on the snap ring, it should face up (away from the body of the compressor).
- Reinstall rotor bearing dust cover (if present) by gently tapping it into place.

14.6 Armature Assembly Installation

- 1. Install shaft key with pliers.
- 2. Install clutch shims. NOTE: Clutch air gap is determined by shim thickness. When installing a clutch on a used compressor, try the original shims first. When installing a clutch on a compressor that has not had a clutch installed before, first try 0.04", 0.02", and 0.004" (1.0, 0.5, 0.1 mm) shims.
- Align keyway in armature assembly to shaft key. Using driver and a hammer or arbor press, drive the armature assembly down over the shaft until it bottoms on the shims. A distinct sound change will be noted if driving with a hammer.
- 4. Replace retaining nut and torque to specification.
 1/2-20: 20-25 ft•lb (27-34 N•m, 270-350 kg•cm)
 M8: 11-15 ft•lb (15-21N•m, 150-210kgf•cm)



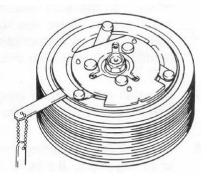






SERVICE OPERATIONS - CLUTCH

- 5. Check air gap with a feeler gauge. Specification is 0.011" 0.019" (0.3 0.5mm). If gap is not even around the clutch, gently tap down at the high spots. If the overall gap is out of spec., remove the armature assembly and change shims as necessary.
- 6. Replace armature dust cover (if used) and torque 3 or 6 bolts to specification below.
 3 1/4-20 bolts (SD-5): 2-4 ft•lb (2-5 N•m, 25-50 kgf•cm)
 6 M5 bolts (SD-7): 5-8 ft•lb (7-11 N•m, 70-110 kgf•cm)



Note: Over torque of SD508/5H14 dust cover bolts will cause air gap to become out of spec.

