

SERVIÇO PÚBLICO FEDERAL
MINISTÉRIO DA JUSTIÇA E SEGURANÇA PÚBLICA
POLÍCIA FEDERAL



CADERNO TÉCNICO
PROJETO DE MODERNIZAÇÃO DE AERONAVES

ANEXO II

INSTALAÇÃO DE SISTEMA DE CLIMATIZAÇÃO DE CABINE
AERONAVES CESSNA GRAND CARAVAN **PR-AAB / PR-AAC**





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O presente projeto tem como objeto especificar detalhadamente o que se demanda, pelo **Comando de Aviação Operacional da Polícia Federal**, em matéria de instalação de sistema de climatização nas aeronaves pertencentes à sua frota (CESSNA Grand Caravan C208B, prefixos **PR-AAB e PR-AAC**).

Foram realizados estudos pelo corpo técnico do **Comando de Aviação Operacional da Polícia Federal**, com o fim de se obter o ideal sistema de climatização a compor as aeronaves CESSNA Grand Caravan C208B, prefixos **PR-AAB e PR-AAC**.

As referidas aeronaves foram adquiridas no ano de 2001. Durante sua operação, verificou-se que a sucessão de eventos que devem ser promovidos antes do acionamento da aeronave, até seu nivelamento em voo de cruzeiro, realizados sob temperaturas elevadas, sobretudo na região norte do país, é fator de risco à segurança de voo.

Portanto, promoveram-se estudos para verificar questões inerentes à instalação de sistema de climatização de cabine, sobretudo no que tange a: **(i)** disponibilidade de sistema já modelado para a instalação; **(ii)** necessidade de sua homologação junto à **Agência Nacional de Aviação Civil**; **(iii)** variações de performance da aeronave com o sistema instalado.

Em relação às questões definidas acima, constatou-se que: **(i)** existe boletim de serviço com especificações do *service kit* de instalação de sistema de climatização de aeronaves CESSNA GRAND CARAVAN C208B (*Service Bulletin CAB02-11 Revision 1: R134A Air Conditioner System Installation*), o qual figura na íntegra ao final deste anexo; **(ii)** verificou-se



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não existir obrigatoriedade, tampouco previsão de homologação do sistema instalado junto à **Agência Nacional de Aviação Civil**; (iii) verificou-se que as informações constantes do *Service Kit* SK205-157A são suficientemente esclarecedoras, para fins de padronização de instalação, o que confere ao mercado especificações que a determinam como serviço de natureza comum; e (iv) não foi constatado como fator de perda de performance a instalação do sistema de climatização, haja vista que o sistema, de toda maneira, deverá permanecer desligado em fases críticas da operação (decolagem e aproximação para pouso).

Esclarecidas as questões de maior relevância, segue abaixo tabela discriminativa dos equipamentos que compõem o kit de instalação do sistema de climatização das aeronaves, indicados pela fabricante CESSNA (TEXTRON COMPANY), conforme *Service Bulletin* CAB02-11 Revision 1: R134A *Air Conditioner System Instalation*:

LINE ITEM	PART NUMBER	DESCRIPTION	UOM	QUANTITY
10	SK208-157A0	R134A AIR CONDITIONING KIT	KT	1
20	SK208-157A2	R134A AIR CONDITIONING KIT	KT	1
30	2601440-3	BRACKET ASSEMBLY	EA	1
40	U470642	SEALANT WS-8020B2 6.0 OZ KIT	KT	4
50	U000117	SEALANT DAPCO 2100	EA	1
60	U074093	COATING	EA	1
70	U000978	ADHESIVE	QT	1
80	U064002	SEALANT	EA	2
90	D1352-S7-00	208 675HP POH SUPPL	EA	1

Obs.: o Boletim de Serviço da Fabricante indica a necessidade de 145 homens/hora para a execução do serviço. Esse total pode sofrer variações, de acordo com a curva do *know-how* da empresa prestadora do serviço, informação essa que deve constar da planilha analítica de



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composição de preços, a ser julgada pelo corpo técnico do **CAOP/DIREX/PF**, em aspectos relacionados à exequibilidade, razoabilidade, eficiência e vantajosidade econômica da proposta apresentada.

Todo o serviço de instalação dos componentes discriminados deverá obedecer rigorosamente ao que determinam seus manuais de instalação, bem como o *Service Bulletin CAB02-11 Revision 1: R134A Air Conditioner System Instalation*.

De igual modo, deverão ser observadas rigorosamente as informações constantes do *Service Kit SK208-157A*, para a perfeita instalação e funcionamento do sistema de climatização de cabine demandado.

Seguem na íntegra o *Service Bulletin CAB02-11 Revision 1: R134A Air Conditioner System Instalation* e o *Service Kit SK208-157A*, produzidos pela fabricantes CESSNA (TEXTRON COMPANY), os quais contêm especificações técnicas de equipamentos e roteiro de instalação suficientemente esclarecedores para fins de padronização de procedimentos.

LINE ITEM	PART NUMBER	DESCRIPTION	UOM	QUANTITY
10	SK208-157A0	R134A AIR CONDITIONING KIT	KT	1
20	SK208-157A2	R134A AIR CONDITIONING KIT	KT	1
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40	U470642	SEALANT WS-8020B2 6.0 OZ KIT	KT	4
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60	U074093	COATING	EA	1
70	U000978	ADHESIVE	QT	1
80	U064002	SEALANT	EA	2
90	D1352-S7-00	208 675HP POH SUPPL	EA	1

Revision Transmittal

January 18, 2011

TO: Cessna Distributors, Caravan and Propjet Authorized Service Facilities

SUBJECT: Caravan Service Bulletin CAB05-11 Revision 1: R134A Air Conditioner System Installation

REASON FOR REVISION

To add ending effectivity to the models affected in the Effectivity Section.

To add three part numbers to the SK208-157A0 Kit.

To replace three part numbers with the currently used part number.

To add current Cessna part numbers to the Materials section.

Miscellaneous changes as required.

REQUIRED ACTION

Please replace any copy of CAB05-11 with the attached copy of CAB05-11 Revision 1 which is printed in its entirety.

NOTE: Compliance with CAB05-11 Revision 1 is not necessary if in compliance with the Original Issue.

LOG OF EFFECTIVE PAGES

Page No.	Date
1	January 18, 2011
2	January 18, 2011
3	January 18, 2011

* * * * *

Service Bulletin

January 18, 2011

CAB05-11
Revision 1

TITLE

R134A AIR CONDITIONER SYSTEM INSTALLATION

EFFECTIVITY

<u>Model</u>	<u>Serial Numbers</u>
208	20800140 thru 20800415, 20800417 thru 20800499
208B	208B0214 thru 208B1189, 208B1191 thru 208B1215, 208B1217 thru 208B1999

PURPOSE

To provide for the initial installation of a R134a air conditioning system in airplanes that do not currently have a Cessna factory installed air conditioning system.

NOTE: Refer to Cessna Service Bulletin CAB04-12 (or latest revision) for converting existing R12 air conditioning systems to R134a.

COMPLIANCE

Optional: may be accomplished if desired.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

MAN-HOURS

Approximately 145.0 man-hours

MATERIAL

The parts below are available from Cessna Service Parts and Programs through an appropriate Cessna Authorized Service Facility.

<u>Part Number</u>	<u>Description</u>	<u>Qty/Airplane</u>
SK208-157A0	R134A Air Conditioner System Installation Kit (Model 208 & 208B airplanes)	1
SK208-157A1	R134A Air Conditioner System Installation Hose Kit (Model 208 airplanes)	1
SK208-157A2	R134A Air Conditioner System Installation Hose Kit (Model 208B airplanes)	1
2601440-1	Bracket Assembly (See Note 1)	1
2601440-3	Bracket Assembly (See Note 2)	1
U470642	CMNPO21CLASSB2 Sealant (6 oz Semkit)	(as required) approx 4
U000117S	Sealant (2 pint can)	(as required)
U074093	Alodine 1132 Marker	(as required)
U000787S	Adhesive (1 pint can)	(as required)
U064002S	Sealant (2 oz tube)	(as required) approx 2
D1352-S7-00	Caravan I POH, Supplement S7 S/N 20800277 and On (675 SHP PT6A-114A Engine Installation)	(as required) (See Note 3)

NOTE 1: Applicable to airplane serial numbers 20800140 thru 20800219 and 208B0214 thru 208B0311 incorporating CAB91-9/SK208-90: Firewall Fitting Reinforcement Installation, and airplane serial numbers 20800220 thru 20800328 and 208B0312 and On

NOTE 2: Applicable to airplane serial numbers 20800329 and On

NOTE 3: To obtain Pilot's Operating Handbook (POH) supplements for serials not listed, contact Cessna Customer Care, Cessna Aircraft Company, PO Box 7706, Wichita, KS 67277-7706, FAX (316) 517-7271, or call (316) 517-5800.

ACCOMPLISHMENT INSTRUCTIONS

Service Kit SK208-157: R134A Revision A Air Conditioner System Installation instructions are attached.

CREDIT

Not applicable

OWNER NOTIFICATION

A. On October 17, 2005 the following Owner Advisory message was sent to applicable owners of record in CAB05-11A.

Dear Caravan Owner:

This Owner Advisory is to inform you that Service Bulletin CAB05-11 has been issued to provide for the installation of a R134a Air Conditioning System.

Compliance is optional: may be accomplished if desired.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual.

Please contact a Cessna Caravan or Propjet Service Station for detailed information and if desired, arrange to have Cessna Service Bulletin CAB05-11 accomplished on your airplane.

B. On January 18, 2011 the following Owner Advisory message will be sent to applicable owners of record in CAB05-11AR1

Dear Caravan Owner:

This Owner Advisory is to inform you that Service Bulletin CAB05-11 Revision 1 has been issued to provide for the installation of a R134a Air Conditioning System.

Revision 1 to this Service Bulletin has been issued to add ending effectivity to the models affected in the Effectivity Section.

Compliance is optional: may be accomplished if desired.

NOTE: Compliance with CAB05-11 Revision 1 is not necessary if in compliance with the Original Issue.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual.

Please contact a Cessna Caravan or Propjet Authorized Service Facility for detailed information and if desired, arrange to have Cessna Service Bulletin CAB05-11 Revision 1 accomplished on your airplane.

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TITLE

R134A AIR CONDITIONER SYSTEM INSTALLATION

EFFECTIVITY

<u>Model</u>	<u>Serial Numbers</u>
208	20800140 thru 20800415, 20800417 thru 20800499
208B	208B0214 thru 208B1189, 208B1191 thru 208B1215, 208B1217 thru 208B1999

DESCRIPTION

This Service Kit provides parts and instructions to install an R134A air conditioning system.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE

CAB05-11R1

CHANGE IN WEIGHT AND BALANCE

MODEL	208	208B
WEIGHT INCREASE	107.62 pounds	110.14
ARM	147.54 inches	161.96 inches
RESULTANT MOMENT	15,878.25	17,838.27
MOMENT/1000	15.87	17.83

SERVICE KIT

SK208-157A

MATERIAL INFORMATION

The following kit is for all airplanes.

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
SK208-157A0	1	Kit, consisting of the following parts:		
AE713797-001	1	Hose Assembly	None	
AE713797-002	1	Hose Assembly	None	
AE713797-003	1	Hose Assembly	None	
AE713797-004	1	Hose Assembly	None	
AE713797-005	1	Hose Assembly	None	
AE713797-006	1	Hose Assembly	None	
AE713797-008	1	Hose Assembly	None	
AE713797-015	2	Hose Assembly	None	
AE713797-016	2	Hose Assembly	None	
AE713797-023	1	Hose Assembly	None	
AN3-10A	2	Bolt	None	
AN3-3A	2	Bolt	None	
AN3-4A	40	Bolt	None	
AN3-5A	12	Bolt	None	
AN3-11A	2	Bolt	None	
AN4H5A	8	Bolt	None	
AN4H6A	3	Bolt	None	
AN4H7A	1	Bolt	None	
AN4-16A	1	Bolt	None	
AN4-36A	1	Bolt	None	
AN525-10R12	10	Screw	None	
AN525-10R6	6	Screw	None	
AN525-832R16	4	Screw	None	
AN6289D4	1	Nut	None	
AN6-12A	3	Bolt	None	
AN6-13A	1	Bolt	None	
AN6-14A	1	Bolt	None	
AN6-37A	1	Bolt	None	
AN818-12D	1	Nut	None	
AN821-8D	2	Elbow	None	
AN824-6D	1	Tee	None	

SERVICE KIT

SK208-157A

AN832-12J	1	Union	None
AN832-8J	1	Union	None
AN833-8D	4	Elbow	None
AN838-4D	1	Elbow	None
AN919-12	2	Reducer	None
AN919-19D	1	Reducer	None
AN919-2D	1	Reducer	None
AN924-12J	1	Nut	None
AN924-8D	4	Nut	None
AN924-8J	1	Nut	None
AS5174D0808	1	Union	None
AV467401	2	Air Valve	None
B7444-1-2-4C	18 inches	Sleeving	None
CM3687D06-06-06	1	Tee	None
CM3687D08-08-08	1	Tee	None
CM3687D12-12-12	1	Tee	None
C15WHITE	4	Cap	None
C2437-035-3B	8	Clip	
CM2692-15S1S	4	Plug Button	None
MS212151-B5S	1	Turnbuckle Body Clip	None
MS21252-5RS	1	Clevis End Turnbuckle	
MS21252-5LL	1	Clevis End Turnbuckle	None
MS21042L4	2	Nut	None
MS21042L6	6	Nut	None
MS21044N3	13	Nut	None
MS21083N3	8	Nut	None
MS21256-1	2	Clip	None
MS21919DG58	1	Clamp	None
MS21919WDG20	1	Clamp	None
MS28773-04	1	Retainer	None
MS3367-1-9	150	Tie Strap	
MS3367-2-9	55	Tie Strap	None
MS35206-246	4	Screw	None
MS35206-247	8	Screw	None
MS35207-263	8	Screw	None

SERVICE KIT

SK208-157A

MS35207-264	8	Screw	None
MS35489-14	1	Grommet	None
MS83248/2-904	1	O-Ring	None
NAS1149D0332K	5	Washer	None
NAS1149D0363K	10	Washer	None
NAS1149D0463K	2	Washer	None
NAS1149D0663K	7	Washer	None
NAS1149F0363P	8	Washer	None
NAS1149F0432P	1	Washer	None
NAS1149F1290P	1	Washer	None
NAS1149F1790P	2	Washer	None
NAS1564D12-8	1	Reducer	None
NAS43DD4-140N	1	Spacer	None
NAS43DD4-15N	1	Spacer	None
NAS43DD4-7N	1	Spacer	None
NAS557-18A	1	Grommet	None
NAS557-24A	1	Grommet	None
SD5H14C6667	1	Compressor	None
S1021Z8-6	63	Screw	None
S1050-1	12 inches	Grommet (25 Pieces)	None
F222055	30 inches	Duct	None
F222076	15 inches	Duct	None
F222076	47 inches	Duct	None
F222109	13 inches	Duct	None
F222038	16 inches	Duct	None
P440031	27 x 48	Dampening Material	None
P610051	6 feet	Tube	None
S1232-505	1	Circuit Breaker	None
S1232-510	3	Circuit Breaker	None
S1450-2-10-032	4	Washer	None
S1494-8	5	Clamp	None
S1637-1	1	Housing Plug/Cap	None
S1637-2	1	Housing Plug/Cap	None
S1638-1	3	Plug	None
S1638-2	3	Cap	None
S1638-4	1	Housing Cap	None

SERVICE KIT

SK208-157A

S1741-1	11	Anchor	None
S1793-1	1	Tee	None
S1891-48S	2	Clamp	None
S1891-56S	8	Clamp	None
S1891-64S	4	Clamp	None
S2034-1	63	Mount	None
S2035-1	2	Cap	None
S2035-2	2	Plug	None
S2209-1	3	Tie	None
S2357-1	4	Clamp	None
S2554-4-24.50	1	Hose	None
S3278A3	1	O-Ring	None
S3278A6	2	O-Ring	None
S3346-1	1	Gasket	None
S355-1	4	Washer	None
S382-3	3	Switch	None
S4055-1	5	O-Ring	None
1134200-28	1	Evaporator Assembly	None
1134305	1	Condenser Coil	None
1134380-4	1	Evaporator Module Assembly - Right	None
1134380-5	1	Evaporator Module Assembly - Left	None
1250232-7	1	Pressure Switch	None
1936T100-9	1	Receiver/Dryer	None
2024-3	1	Valve	None
2025-3	1	Valve	None
233-751	3	O-Ring	None
235-1828	1	Valve	None
235-1829	1	Valve	None
2406-4-6	1	Tube Reducer	None
2601141-48	1	Duct Assembly	None
2601141-49	2	Duct Assembly	None
2601141-61	1	Duct Assembly	None
2601141-64	1	Duct Assembly	None
2601141-75	1	Duct Assembly	None
2601141-81	1	Duct Assembly - Left	None

SERVICE KIT

SK208-157A

2601141-82	1	Duct Assembly - Right	None
2601143-1	2	Bracket	None
2601143-2	2	Bracket	None
2601143-3	1	Bracket	None
2601143-5	1	Bracket Assembly	None
2601143-7	1	Attach Angle	None
2601151-2	2	Doubler	None
2601188-8	1	Compressor Drive Assembly	None
2601252-1	2	Tube Assembly	None
2601260-2	2	Support Bracket Assembly	None
2601260-5	4	Clamp Bolt	None
2601262-1	2	Shim	None
2601262-3	2	Shim	None
2601264-1	1	Support Assembly	None
2601321-7	1	Inlet Duct Assembly	None
2601322-4	1	Winter Panel	None
2601323-4	1	Winter Panel	None
2601350-1	1	Check Valve Assembly-Left	None
2601350-4	2	Seal	None
2601350-15	1	Duct Assembly	None
2601350-16	1	Duct Assembly	None
2601350-2	1	Check Valve Assembly - Right	None
2601352-3	4	Grill Assembly	None
2601359-1	1	Elbow Assembly - Left	None
2601359-2	1	Elbow Assembly - Right	None
2601360-1	1	Hanger	None
2601392-1	1	Adjuster Plate	None
2601393-1	2	Support Plate	None
2601412-1	1	Seal Assembly - Forward	None
2601412-2	1	Seal Assembly - Aft	None
2601412-3	1	Seal Assembly - Outboard	None
2601412-4	1	Seal Assembly - Inboard	None
2601417-1	1	Clamp	None

SERVICE KIT

SK208-157A

2601418-1	1	Clamp	None
2605028-1	1	Placard	None
2605031-3	1	Placard	None
2605041-4	1	Placard	None
2605054-7	1	Placard-Air Conditioner	None
2610020-82	4	Louver Assembly	None
2613405-9	1	Bracket Assembly	None
2613405-10	1	Bracket Assembly	None
2613406-5	2	Trim	None
2613406-4	2	Cover Assembly	None
2615031-51	1	Substrate Assembly	None
2652031-203	1	Cowl Assembly	None
2670004-1	2	Bus Bar	None
2671000HE10	1	Wire	None
2671000HE11	1	Wire	None
2671000HE12	1	Wire	None
2671000HE1	1	Wire	None
2671000HE21	1	Wire	None
2671000HE22	1	Wire	None
2671000HE23	1	Wire	None
2671000HE24	1	Wire	None
2671000HE25	1	Wire	None
2671000HE26	1	Wire	None
2671000HE2	1	Wire	None
2671000HE33	1	Wire	None
2671000HE34	1	Wire	None
2671000HE35	1	Wire	None
2671000HE36	1	Wire	None
2671000HE3	1	Wire	None
2671000HE46	1	Wire	None
2671000HE47	1	Wire	None
2671000HE5	1	Wire	None
2671000HE6	1	Wire	None
2671000HE74	1	Wire	None
2671000HE78	1	Wire	None
2671000HE7	1	Wire	None
2671000HE82	1	Wire	None

SERVICE KIT

SK208-157A

2671000HE83	1	Wire	None
8502K1	1	Switch	None

In addition to the SK208-157A0 kit, order the kit below for the model 208.

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
SK208-157A1	1	Kit , consisting of the following parts:		
AE713797-010	1	Hose Assembly	None	
AE713797-012	1	Hose Assembly	None	
AE713797-014	1	Hose Assembly	None	
AE713797-025	1	Hose Assembly	None	
AE713797-027	1	Hose Assembly	None	
AE713797-029	1	Hose Assembly	None	
2671000HE27	1	Wire	None	
2671000HE28	1	Wire	None	
2671000HE48	1	Wire	None	
9910588-10	2	Duct-Pilot/Copilot	None	

In addition to the SK208-157A0 kit, order the kit below for the model 208B.

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
SK208-157A2	1	Kit , consisting of the following parts:		
AE713797-018	1	Hose Assembly	None	
AE713797-020	1	Hose Assembly	None	
AE713797-022	1	Hose Assembly	None	
AE713797-024	1	Hose Assembly	None	
AE713797-026	1	Hose Assembly	None	
AE713797-028	1	Hose Assembly	None	
2671000HE56	1	Wire	None	
2671000HE57	1	Wire	None	
2671000HE58	1	Wire	None	
9910588-15	2	Duct-Pilot/Copilot	None	

SERVICE KIT

SK208-157A

In addition to the applicable kits above, airplanes 20800140 thru 20800219 and 208B0214 thru 208B0311 incorporating CAB91-9, Firewall Fitting Reinforcement Installation (SK208-90) or latest revision, and airplanes 20800220 thru 20800328 and 208B0312 and On must order the following part.

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
2601440-1	1	Bracket Assembly	None	

In addition to the applicable kits above, airplanes 20800329 and On, must order the following part.

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
2601440-3	1	Bracket Assembly	None	

The following materials, or equivalent will be necessary.

NAME	NUMBER	MANUFACTURER	USE
Sealant (6 oz Semkit)	U470642	Cessna Aircraft Company Cessna Service Parts and Programs 5800 East Pawnee PO Box 1521 Wichita, KS 67218	Fay sealing.
Sealant	U000117S	Cessna Aircraft Company Cessna Service Parts and Programs 5800 East Pawnee PO Box 1521 Wichita, KS 67218	Firewall sealing.
Corrosion Resistant Primer	513 x 419910 x 942	PRC-DeSoto International 5430 San Fernando Road Glendale, CA 91209	To apply to bare metal.
Alodine 1132 Marker	U074093	Cessna Aircraft Company Cessna Service Parts and Programs 5800 East Pawnee PO Box 1521 Wichita, KS 67218	To apply to bare metal.
Adhesive (1 pint can)	U000787S	Cessna Aircraft Company Cessna Service Parts and Programs 5800 East Pawnee PO Box 1521 Wichita, KS 67218	Various adhesive uses.
Sealant (2 oz tube)	U064002S	Cessna Aircraft Company Cessna Service Parts and Programs 5800 East Pawnee PO Box 1521 Wichita, KS 67218	Sealant for air ducts.
Flat Black Paint	Enamel	Locally Available	To paint substrate material.

SERVICE KIT

SK208-157A

ACCOMPLISHMENT INSTRUCTIONS

NOTE: Read and understand these instructions before you begin the installation of the air conditioning system.

1. Prepare the airplane for maintenance.
 - A. Make sure that all switches are in the OFF/NORM position.
 - B. Disconnect electrical power from the airplane.
 - (1) Disconnect the airplane battery.
 - (2) Disconnect external electrical power.
 - C. Attach maintenance warning tags to the battery and external power receptacle that have "**DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS**" written on them.
2. Put a tail stand in position under the tail of the airplane.
3. Remove and keep the following interior components and furnishings and hardware that attaches them. (Refer to applicable sections of the Maintenance Manual and Illustrated Parts Catalog.)
 - A. Crew seats.
 - B. Passenger seats.
 - C. Floor covering material.
 - D. Pilot's and copilot's scuff plates and control column cover assemblies.
 - E. The 2615117-9 Left Substrate Forward Wall.
 - F. The trim actuator chain guard from the left side of the throttle quadrant pedestal assembly.
 - G. All window trim panels and sidewall panels and the avionics cover assembly.
 - H. The headliner from the windshield to the rear spar. Roll and stow the headliner at the rear spar area.
 - I. The left, right, and center aft cabin wall assemblies. Keep the cross support panel in the airplane.
 - J. Floorboard access panels as necessary.
 - K. The floorboard heater plenums between approximately FS 195.813 to 234.00 for the 208 and FS 215.813 and 256.00 for the 208B to get access for refrigerant hose routings.
 - L. Remove the left side flexible heater duct under the floorboard for access to route refrigerant hoses.
 - M. Existing overhead cockpit ventilation plenum assembly. Discard the flexible ducts from the main plenum assembly.
 - N. The 2601247-69 Brace as necessary from the left and right side of the fuselage-to-wing carry-thru area inside or the cabin, near the headliner zipper.
 - O. The crew steps from the left and right side.
 - P. The headliner from the aft partition upper wall.
 - Q. Remove the aft upper partition assembly.
 - R. All other components as necessary.
4. (Refer to Figure 6, Detail A and Detail B and Figure 7.) Install the 8502K1 and S382-3 Switches in the instrument panel as shown.
 - A. Remove and discard the existing circuit breakers and switches for the ventilation fans. Plug the holes in the panel with new CM2692-15S1S or the existing plug buttons that are in the locations where the new circuit breakers will be installed.
 - B. Cap and stow the wires.
 - C. Install the 8502K1 and S382-3 Switches in the instrument panel and attach wires as shown.

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5. (Refer to Figures 7 and 8.) Install three S1232-510 and one S1232-505 Circuit Breakers as shown. If the airplane does not have bus bars that extend across the full length of the panel, install two full length 2670004-1 Bus Bars. Install wires at circuit breakers as shown.
6. (Refer to Figure 4, Detail B, Figure 6, Detail B and Figure 7.) Route the wiring with the existing wire bundle to the aft evaporator.
7. (Refer to Figure 1.) Install the refrigerant hose assemblies to the air conditioner components. (Refer to the Maintenance Manual, Chapter 21, R134A Air Conditioning System - Maintenance Practices.)
 - A. Cut the S1050-1 Grommets to length and install around lightening holes as shown with EC1300LP Adhesive as shown.
 - B. Attach the hoses in place with clamps and tie straps as shown.
 - (1) Do not fully tighten tie straps until after a leak test has been completed when all components are installed.
 - (2) Add a drop of refrigerant oil to the threaded connections to assist in tightening.
 - (3) Keep the hose ends covered when routing to keep them from getting contaminated.
 - (4) Do a visual inspection of all hoses after routing to make sure the connections are tight and that the hoses will not be chafed on any other structure or components.
8. Install the tailcone evaporator.
 - A. (Refer to Figure 4, Detail A.) Install the 1134200-28 Aft Evaporator Assembly.
 - (1) Temporarily assemble the F222076 Duct Assembly to the 2601143-3 Bracket, 2601143-5 Bracket Assembly, 2601143-7 Attach Angle with the AN3-3A Bolts as shown.
 - (2) Install the above assembly into the airplane and locate the unit by installing one AN525-8R6 Screw in the lowest attachment hole in the 2601141-73 Plate and aligning with the existing nutplate on the left bulkhead.

NOTE: This fastener will be temporary, only to locate the unit. This hole will be used to also keep the aft partition in the airplane when the installation is complete.
 - (3) Put the 2601143-3 Bracket on the cabin skin and level the evaporator in place.
 - (4) Match drill the 10 holes through the 2601143-3 Bracket common to the tailcone sidewall skin.
 - (a) Drill the holes that are accessible.
 - (b) Disassemble and attach the bracket with temporary sheet metal fasteners.
 - (c) Drill the remainder of the holes.
 - (5) Match drill the eight holes through the 2601143-5 Bracket common to the tailcone sidewall skin.
 - (a) Drill the holes that are accessible.
 - (b) Disassemble and attach the bracket with temporary sheet metal fasteners.
 - (c) Drill the remainder of the holes.
 - (6) Locate the two nutplate locations on the aft side of the left bulkhead to match the two upper fastener hole locations on the 2601141-73 Plate.
 - (7) Remove the 1134200-28 Aft Evaporator Assembly and attach the 2601143-3 Bracket and the 2601143-5 Bracket Assembly to the structure with MS20470AD4-4 Rivets.
 - (8) Drill and install the two MS21069L3 Nutplates on the aft side of the bulkhead typical with the existing bulkhead nutplate.
 - (9) Reinstall the 1134200-28 Aft Evaporator Assembly with the third lowest hole. Install AN525-10R6 Screws through the top two holes in the 2601141-73 Plate and bulkhead. Leave the lowest hole open to install the aft partition.

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- (10) (Refer to Figure 4, View B-B and Detail D.) Install 10 S1741-1 Anchors on the aft face of the bulkhead at approximately FS 322.80 (208) and FS 370.80 (208B) as shown.
- (11) (Refer to Figure 4, Detail B and View C-C.) Drill a 0.81 diameter hole in the lower left tailcone skin for the P610051 Tube and install one MS35489-14 Grommet.
- (12) Install the P610051 Tube from the 1134200-28 Aft Evaporator Assembly to the drain hole and attach with a S1494-8 Clamp on the evaporator.
- (13) Make a 45° angle cut at the end of the tube where it is outside of the airplane.
- (14) (Refer to Figure 4, View B-B and Detail B.) Route the wiring across the airplane around the bulkhead as shown and connect it to the evaporator assembly.
- (15) (Refer to Figure 1, Views JJ-JJ and KK-KK.) Attach the refrigerant hoses to the 1134200-28 Aft Evaporator Assembly.

B. Install the aft upper substrate wall.

- (1) (Refer to Figure 4, View A-A.) Pull back the insulating material from the top and bottom of the 2615031-51 Substrate Assembly approximately one inch from the top edge and bottom edge of the panel to fit over the flange on the cross support panel and to clear the bulkhead.
- (2) Temporarily install the 2615031-51 Upper Substrate Aft Wall Panel. Locate the substrate panel with the two holes in the bulkhead common to the left and right outboard upper return air grill cover screw holes.
- (3) Match drill the remaining Number 10 (0.193-inch diameter) holes in the substrate panel from the existing holes in the bulkhead.
- (4) Match drill the lower return air grill cover Number 10 (0.193-inch diameter) holes in the existing 2615031 Cross Support Panel below the outboard return air ducts.
- (5) Remove the substrate panel.
- (6) With a rotary file, trim the 2615031 Cross Support Panel to match the lower circular cutout of the left and right elbow duct holes in the substrate panel. Deburr the cutout and apply Alodine and corrosion resistant primer.
- (7) (Refer to Figure 4, Detail A.) Trim and fit the forward corners points on the 2601141-64 Duct Assembly to fit the aft upper substrate panel.
 - (a) Trim the rectangular openings in the substrate panel to fit the wye duct.
- (8) Attach the ducts in place on the aft upper substrate panel with EC1300LP Adhesive.
- (9) (Refer to Figure 4, Detail A.) Temporarily install the 2601359-1 Elbow Assembly (left) and 2601359-2 Elbow Assembly (right) to the aft side of the aft upper substrate panel with three AN525-10R12 Screws until the adhesive dries.
- (10) Remove the three AN525-10R12 Screws.
- (11) (Refer to Figure 4, View A-A.) Locate and drill a Number 10 (0.193-inch diameter) hole and install the MS21047L3 Nutplate on the forward side of the 2615031 Cross Support as shown.
- (12) Apply Alodine and corrosion resistant primer to all bare metal edges.
- (13) Mask and paint the interior of the outboard circular air duct openings in the substrate material with flat black to reduce visibility of the substrate material.
- (14) Reinstall the substrate panel with the elbow assemblies attached.
- (15) (Refer to Figure 4, Detail A.) Install the 2601141-64 Duct Assembly to the aft side of the aft upper substrate panel with four each AN525-832R16 Screws and S1450-2-10-032 Washers.
- (16) Install the three flexible duct tubes from the evaporator to the return and supply ducts installed on the upper substrate panel. Install the F222055 and two each F222076 Ducts (cut to length) with four S1891-56S Clamps and two S1891-48S Clamps.

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- (17) (Refer to Figure 4, Detail C.) Attach the return air duct from the upper substrate wall assembly to the 2601360-1 Hanger with one each AN525-10R6 Screw, MS21044N3 Nut and MS21919DG58 Clamp. Attach the 2601360-1 Hanger to the cross support panel with one AN525-10R6 Screw.
 - (18) Install the fabric headliner and attach the lower edge in place along both sidewalls and the aft wall 2615031 Cross Support Panel.
 - (19) Trim the two outboard circular openings in the fabric headliner material approximately 0.250-inch smaller in diameter than the circular duct opening in the substrate panel assembly.
 - (20) Split the fabric headliner from corner to corner at the two rectangular duct openings so that the fabric material can be folded out and glued onto the male extensions of the 2601141-64 Duct Assembly. Trim the ends of the fabric to length and attach to the Duct with EC1300LP Adhesive.
 - (21) (Refer to Figure 4, Detail A.) Install the 2610020-82 Louver Assemblies on the 2601141-48 (left) and 2601141-75 (right) Duct Assemblies as shown.
 - (22) Use a punch to locate the nutplates on the bulkhead through the headliner material.
 - (23) Match drill four 0.172-inch diameter holes through the forward mounting tabs on the duct assemblies.
 - (24) Install the two 2601141-48 (left) and 2601141-75 (right) Duct Assemblies in the aft upper cabin area with four MS3520-246 Screws.
 - (25) Trim the aft end of the 2601141-48 (left) and 2601141-75 (right) Duct Assemblies to get edge distance on the mounting tabs on the forward end of the duct assemblies.
 - (26) Install the 2601352-3 Grill Assemblies with three AN525-10R12 Screws and one AN525-10R6 Screw at the upper outboard location with the wire pattern in position. Put the grills in a position so to obscure viewing directly into the duct through the louver from a seated position.
9. (Refer to Figure 3.) Install the 1134380-4 (right) 1134380-5 (left) Wing Mounted Evaporator.
- A. Remove access panels 511AB and 611AB.
 - B. Remove the courtesy lights from the wing. (Refer to the Maintenance Manual, Chapter 33, Courtesy Lights - Maintenance Practices.)
 - C. Remove and discard the 2611165-39 Elbow Assembly and the hardware that attaches it to the left hand ventilation system.
 - D. Remove and discard the 33E83-2 Blower Assembly. Keep the hardware that attaches it. (Refer to the Illustrated Parts Catalog, Cabin Air Ventilation System.)
 - E. Remove sealant, sound deadening material and fiberglass insulation material from the interior and exterior area where the duct penetrates the cabin. Keep the sound dampening material to use as a template.
 - F. Remove and keep the deice tubes and the bulkhead fitting from the wing root rib if installed. Cover the tube openings to prevent contamination.
 - G. (Refer to Figure 3, View C-C.) Install the 2601151-2 Doubler.
 - (1) Put the 2601151-2 Doubler in position as shown and make a mark around it.
 - (2) Remove rivets from the area where the 2601151-2 Doubler will be installed.
 - (3) Match drill from the root rib to the 2601151-2 Doubler, and from the 2601151-2 Doubler to the root rib.
 - (4) Put the 2601350-1 (left) or 2601350-2 (left) Check Valve Assembly on the lower forward most hole of the doubler.

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CAUTION: EXERCISE CAUTION WHEN DRILLING OUT THE RIVETS ON RIGHT SIDE BECAUSE OF ELECTRICAL WIRES IN THE AREA BEHIND THE ROW OF RIVETS.

- (5) Drill out the existing vertical row of rivets at approximately FS 181.85 (208) FS 201.50 (208B).

NOTE: Leave the lowest existing rivet in the vertical row because it will not be common to the doubler.

- (6) Match drill the existing holes from the cabin to the 2601151-2 Doubler.
- (7) Match drill the deice bulkhead fitting penetration holes and the 3.55-inch diameter air return duct hole.
- (8) Measure and drill the two 0.750-inch diameter refrigerant line bulkhead penetration holes.
- (9) Locate the 2601350-1 (left) or 2601350-2 (left) Check Valve Assembly on the doubler lower forward most hole.
- (a) Locate the duct assembly with the Number 10 (0.193-inch diameter) hole on the upper aft side of the duct assembly.
- (b) Center the inside diameter of the duct assembly on the hole in the cabin with the louvers positioned vertically.
- (c) Make sure the louvers are free to rotate full motion.
- (10) (Refer to Figure 3, View D-D.) Make sure the 2601141-49 Duct Assembly is free to fit through the hole in the cabin and doubler.
- (11) Remove the 2601151-2 Doubler and deburr holes, clean the mating surfaces, and apply Alodine to all bare edges.
- (12) Apply RTV-102 Sealant to the large end of the 2601141-49 Duct Assembly on the outer diameter of the duct and install it in the cabin plenum with the small diameter end facing out. Rotate the unit until the smaller tube is located at the lowest point.
- (13) Apply CMNP021CLASSB4 Sealant to the doubler and attach it to the airplane cabin skin with temporary sheet metal fasteners. The 2601141-49 Duct Assembly should be rotated until it is centered in the opening. Temporarily keep its location centered in the opening by shimming with wooden shims (popsicle sticks or tongue depressors).
- (14) Install the MS20470AD4-4 Rivets common to the 2601151-2 Doubler and the cabin skin.

NOTE: It is permissible to use S2456-4-4 Rivets (blind), or to install the rivets in either direction for ease of installation.

- H. Cut the P440031 Dampening Material to match the kept material, and install it in same place as the removed dampening material.
- I. Install the insulation that you kept.
- J. Reinstall the deice bulkhead fitting and deice wing tubing through the existing hole in the cabin and cabin skin.
- K. Install the 2601350-1 (left) or 2601350-2 (right) Check Valve Assembly and the 2601350-4 Seal with four MS27039-1-10 Screws through the cabin sidewall into the nutplates on the 2601350-15 Duct Assembly (left).
- L. (Refer to Figure 1, View L-L and M-M.) Install the refrigerant bulkhead fittings and hardware through the cabin sidewall.
- M. (Refer to Figure 3, View A-A.) Drill a 0.44-inch diameter hole and eight Number 40 (0.098-inch diameter) holes through the lower wing skin just aft of the large evaporator access hole in the lower wing surface.
- N. Install the 2601252-1 Tube Assembly with eight MS20426AD3-4 Rivets.

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- O. Use the ventilation fan motors as a drill template and match drill the two Number 10 (0.193-inch diameter) holes in the 2601141 Duct Assembly.
 - P. Mount the 2601141 Duct Assembly in the wing root rib area with the existing hardware from the ventilation fan installation that was removed.
 - Q. (Refer to Figure 3, Details A and B and Figure 7.) Install the wing evaporator wiring. Cap and stow the existing wire that routed to the fans.
 - R. (Refer to Figure 3, View B-B.) Assemble the 2601143-1 and 2601143-2 Brackets to the evaporator as shown.
 - S. Install the evaporator assembly in the wing root rib area and attach it to the 2601141 Duct Assembly with existing hardware.
 - T. Drill four Number 10 (0.193-inch diameter) holes in the structure as necessary.
NOTE: The airplane may already have the Number 10 (0.193-inch diameter) holes, or have pilot holes that need to be drilled to Number 10 holes.
 - U. Attach the 2601143-1 (left) and 2601143-2 (right) Brackets with four each AN3-4A Screws, MS21044N3 Nut and NAS1149F0363P Washers.
 - V. (Refer to Figure 3, Detail A.) Install the air supply and air return flexible ducts from the wing evaporator assembly to the cabin with F222109 and F222038 Hoses (cut to length) and two each S1891-56S and S1891-64S Clamps.
 - W. Install the high pressure (supply) and low pressure (suction) refrigerant lines to the wing evaporator assembly with the AE713797-015 Hose Assembly and the AE713797-016 Hose Assembly to connect the unit to the cabin bulkhead fittings. Use a drop of refrigerant oil on the threaded connections prior to tightening.
 - X. Install the P610051 Tube (cut to length) from the evaporator assembly to the 2601252-1 Tube Assembly with two S1494-8 Clamps.
 - Y. Inspect the installation for secure fittings, fasteners, and hardware installation.
 - Z. Install the removed 2622224-809 Courtesy Light Assembly with kept hardware. (Refer to the Maintenance Manual, Chapter 33, Courtesy Lights - Maintenance Practices.)
 - AA. Install access panels 511AB and 611AB with the kept hardware. (Refer to the Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation.)
10. Lower cowling modification and receiver/dryer, compressor and condenser installation.
- A. Remove the nose landing gear fairing.
 - B. Remove the upper and lower engine cowlings. (Refer to the Maintenance Manual, Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.)
 - C. Transfer the cowl prop rod, prop rod holder, latch restraints, and any other hardware from the existing cowling to the new 2601319-41 Lower Cowl Assembly (left). Install a new 2605041-4 Placard at the same location as the existing cowling.
 - D. Use the existing lower left cowling for reference, cut out the hole as necessary for the external power receptacle.
 - E. Discard the existing lower left cowling.
 - F. Trim and bevel the forward and aft ends of the three longitudinal hat sections to clear the existing forward bulkhead and firewall assembly. Also trim around the drain petcocks and drain tubes. Trim as necessary at the centerline to fit the existing cowling assembly. Touch up bare metal surfaces with Alodine and corrosion resistant primer as necessary.
 - G. Reinstall the upper left cowling assembly. (Refer to the Maintenance Manual, Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.)

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- H. Hand fit the new 2601319-41 Lower Cowl Assembly (left) and make sure it latches correctly with the upper left cowl assembly.
- I. Remove the 2601319-41 Lower Cowl Assembly (left).
- J. Paint the 2601319-41 Lower Cowl Assembly (left) to match the airplane.
- K. Remove the upper left cowl assembly. (Refer to the Maintenance Manual, Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.)
- L. Get access to the aft left and right side of the engine firewall from the cabin interior through the floorboard access holes.
- M. Remove the pilot's and copilot's floorboard flexible heater duct from the heater control box.
 - (1) Move the right side out of the area of the refrigerant hose penetration point.
 - (2) Move the left side out of the area of the condenser bracket attachment point.
- N. If installed, remove the 2653000-57 Cover from the lower right hand forward side of the firewall to get access to the refrigerant hose penetration points.
- O. (Refer to Figure 1, View F-F.) Match drill, ream, or measure and drill 0.765 and 1.078-inch diameter holes in the firewall as applicable. Deburr the holes and apply Alodine and corrosion resistant primer to the bare metal.
- P. If necessary, cut two small vertical slits in the engine firewall blanket on the left and right sides.
- Q. Pull the blanket from the firewall and attach the flap out of the way to work on the firewall.
- R. (Refer to Figure 1, Views A-A and B-B.) Install the 1936T100-9 Air Conditioner Receiver Dryer. (Refer to the Maintenance Manual, Chapter 21, R134A Air Conditioning System - Maintenance Practices.)
- S. (Refer to Figure 2, View A-A.) Install the condenser bracket assembly on the left side of the firewall.
 - (1) Drill out existing rivets in the firewall.
 - (2) Install the 2601440-1 or 2601440-3 Bracket Assembly with bolts and washers as shown.
- T. Reinstall the left and right heater ducts to the control box.
- U. (Refer to Figure 2, Details A, B and C.) Install the 1134305 Condenser Coil. (Refer to the Maintenance Manual, Chapter 21, R134A Air Conditioning System - Maintenance Practices.)
- V. (Refer to Figure 1, View D-D and Detail C.) Install the SD5H14C4527 Air Conditioner Compressor and brackets. (Refer to the Maintenance Manual, Chapter 21, R134A Air Conditioning System - Maintenance Practices.)
- W. Remove the cover plate and gasket on the left aft side of the engine by removing the four bolts to get access to the air conditioner drive pad.
- X. (Refer to Figure 7 and Figure 1, View B-B.) Route the wiring from the instrument panel to the firewall bulkhead penetration hole. On the engine side, route the wire down the center to the pressure switch. Seal the area at the firewall bulkhead penetration hole with CMNP009 Sealant.
- Y. (Refer to Figure 1, Detail C.) Install the 2601188-8 Compressor Drive Assembly. (Refer to the Maintenance Manual, Chapter 21, R134A Air Conditioning System - Maintenance Practices.)
- Z. (Refer to Figure 2.) Attach the 2652031-203 Lower Cowl Assembly.
 - (1) Install the two sets of Air Conditioner Louvered Panels 2601323-3 and 2601322-3 with AN525-10R8 Screws. (Refer to the Illustrated Parts Catalog, Chapter 71, Cowl Assembly - Lower LH.)
 - (2) Stow the 2601323-4 and 2601322-4 Winter Panels for winter use only.
 - (3) Install all removed cowl assemblies. (Refer to the Maintenance Manual, Chapter 71, Cowling - Maintenance Practices.)

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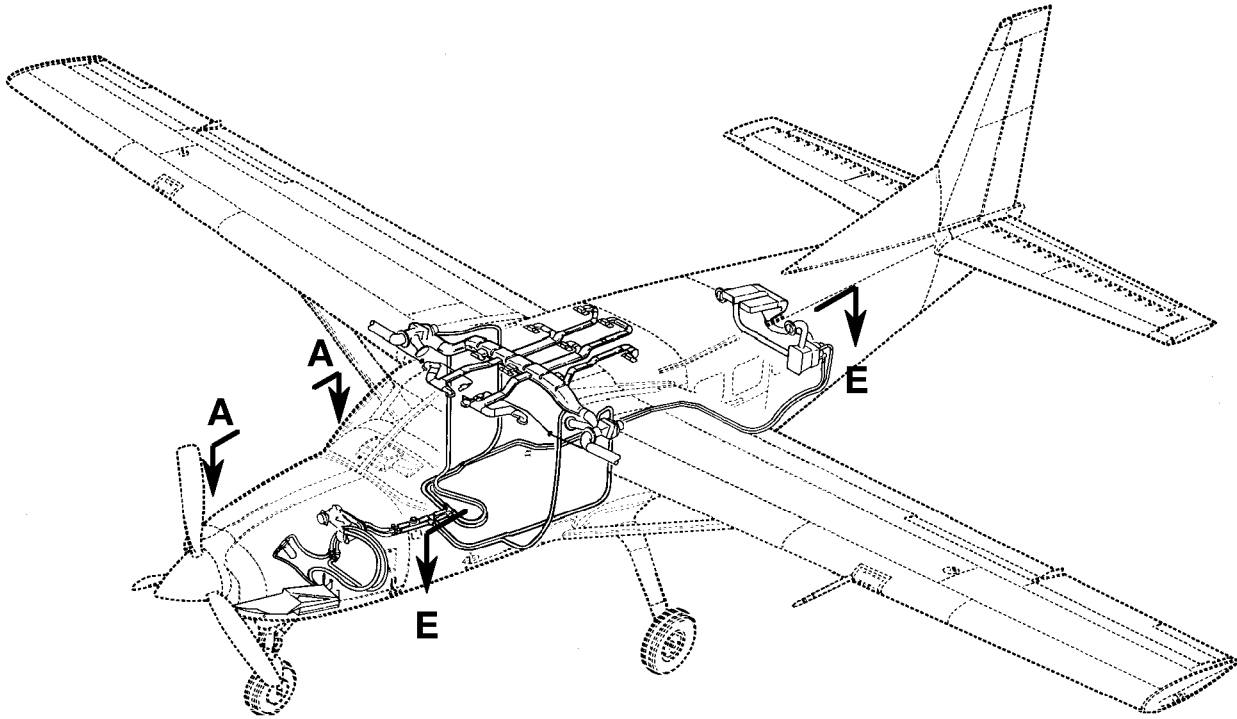
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- (4) Install the nose landing gear fairing.
- 11. (Refer to Figure 5, Views A-A and B-B.) Install the overhead ducts.
 - A. Match drill eight Number 30 (0.128-inch diameter) holes through the 2613405-9 (left) and 2613405-10 (right) Bracket Assemblies.
 - B. Install two 9910588-10 Ducts (208) or two 9910588-15 Ducts (208B) from the main plenum assembly at the forward wing-to-fuselage carry-thru to the outlets.
 - C. Attach the ducts in place with six MS3367-2-9 Tie Straps. Seal the ducts to the main plenum and vents with RTV-102 Sealant at the main plenum.
 - D. Install two AV467401 Air Outlets with eight MS35206-247 Screws.
- 12. Remove maintenance warning tags and connect the airplane battery.
- 13. Do a leak check of the air conditioning system. (Refer to the Maintenance Manual, Chapter 12, R134A Air Conditioning - Servicing.)
- 14. Charge the air conditioning system and add oil to the compressor. (Refer to the Maintenance Manual, Chapter 12, R134A Air Conditioning - Servicing.)
- 15. Tighten all hoses in place with tie straps.
- 16. Reinstall the following components with the kept hardware. (Refer to applicable sections of the Maintenance Manual and Illustrated Parts Catalog.)
 - A. Crew seats.
 - B. Passenger seats.
 - C. Floor covering material.
 - D. Pilot's and copilot's scuff plates and control column cover assemblies.
 - E. The 2615117-9 Left Substrate Forward Wall.
 - F. The trim actuator chain guard from the left side of the throttle quadrant pedestal assembly.
 - G. All window trim panels and sidewall panels and the avionics cover assembly.
 - H. The 2601247-69 Brace if removed from the left and right side of the upper wing-to-fuselage carry-thru area.
 - I. The headliner from the rear spar to the windshield.
 - J. The left, right, center and upper aft wall assemblies.
 - K. The heater plenums and heater ducts.
 - L. Floorboard access panels as necessary.
 - M. The crew steps from the left and right side.
 - N. All other components as necessary.
- 17. Make an entry in the airplane logbook stating this Service Kit has been installed.

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Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 1)

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2601260-2
SUPPORT BRACKET
ASSEMBLY
(2 REQUIRED)
2601260-5
CLAMP BOLT
(4 REQUIRED)
MS21083N3
NUT
NAS1149D0363K
WASHER
(8 EACH REQUIRED)

AE713797-003
HOSE
ASSEMBLY
(1 REQUIRED)

ENGINE
MOUNT
ASSEMBLY
(REFERENCE)
BL
0.00

1936T100-9
RECEIVER/DRYER
(1 REQUIRED)

B

B

FS
81.50

AE713797-004
HOSE
ASSEMBLY
(1 REQUIRED)

FS
100.00

AN832-8J
UNION
AN924-8J
NUT
(1 EACH REQUIRED)
NAS1149F1290P
WASHER
(2 REQUIRED)

AN832-12J
UNION
AN924-12J
NUT
(1 EACH REQUIRED)
NAS1149F1790P
WASHER
(2 EACH REQUIRED)

AE713797-001
HOSE
ASSEMBLY
(1 REQUIRED)

AE713797-002
HOSE
ASSEMBLY
(1 REQUIRED)

RELAY BOX
(REFERENCE)

S2209-2 TIE
(AS REQUIRED)

SD5H14C4527
COMPRESSOR
(1 REQUIRED)

D

D

VIEW A-A

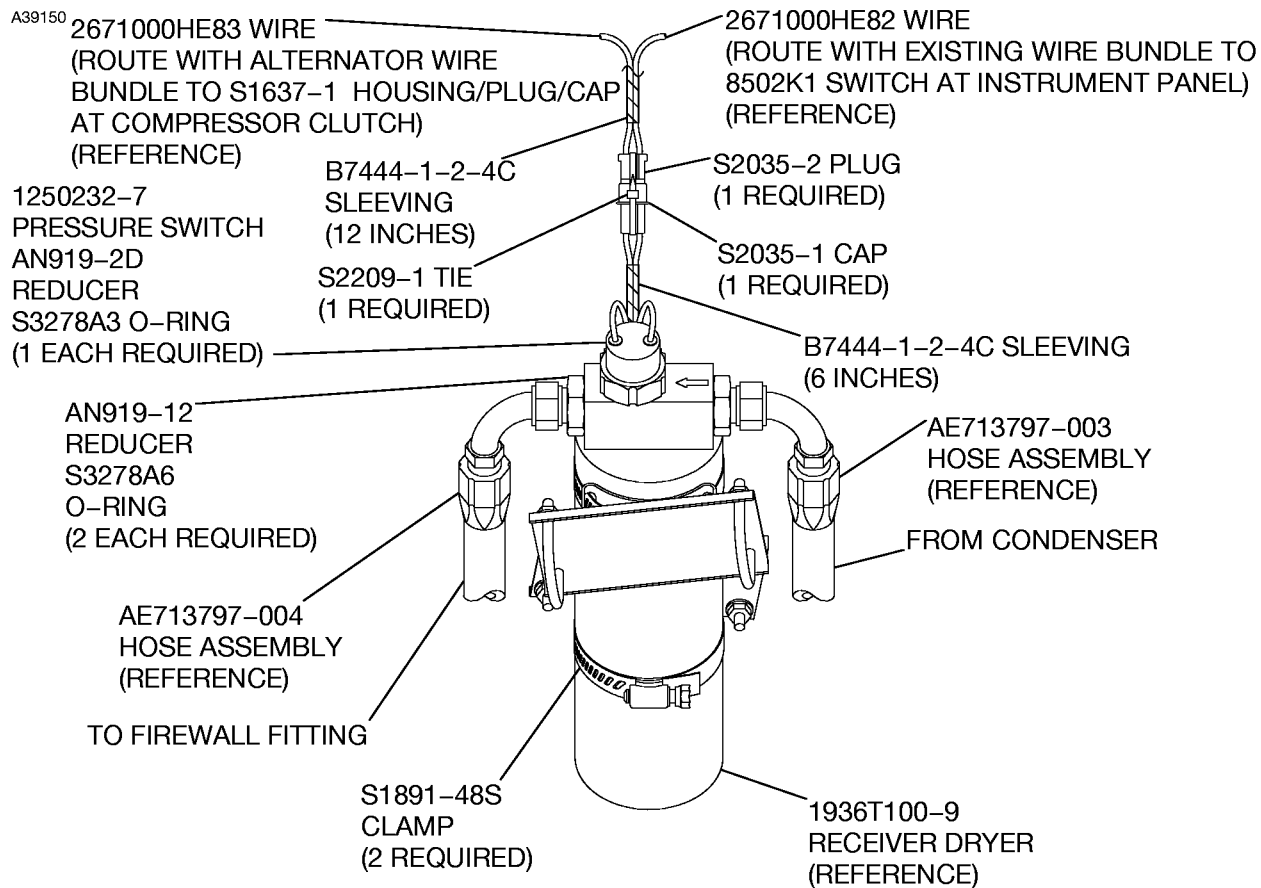
LOOKING DOWN AT
ENGINE MOUNT

AA2601T469

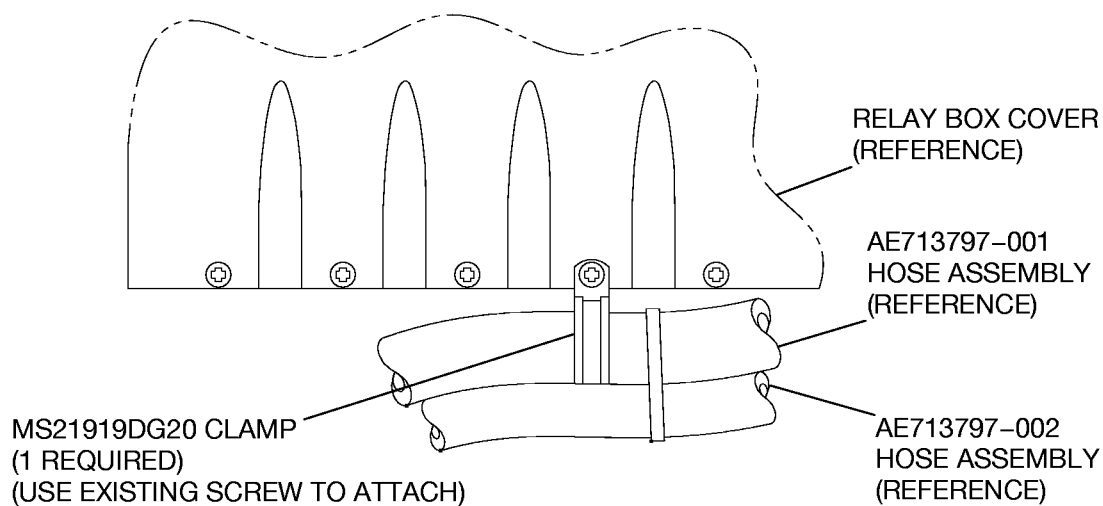
Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 2)

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VIEW B-B



VIEW C-C

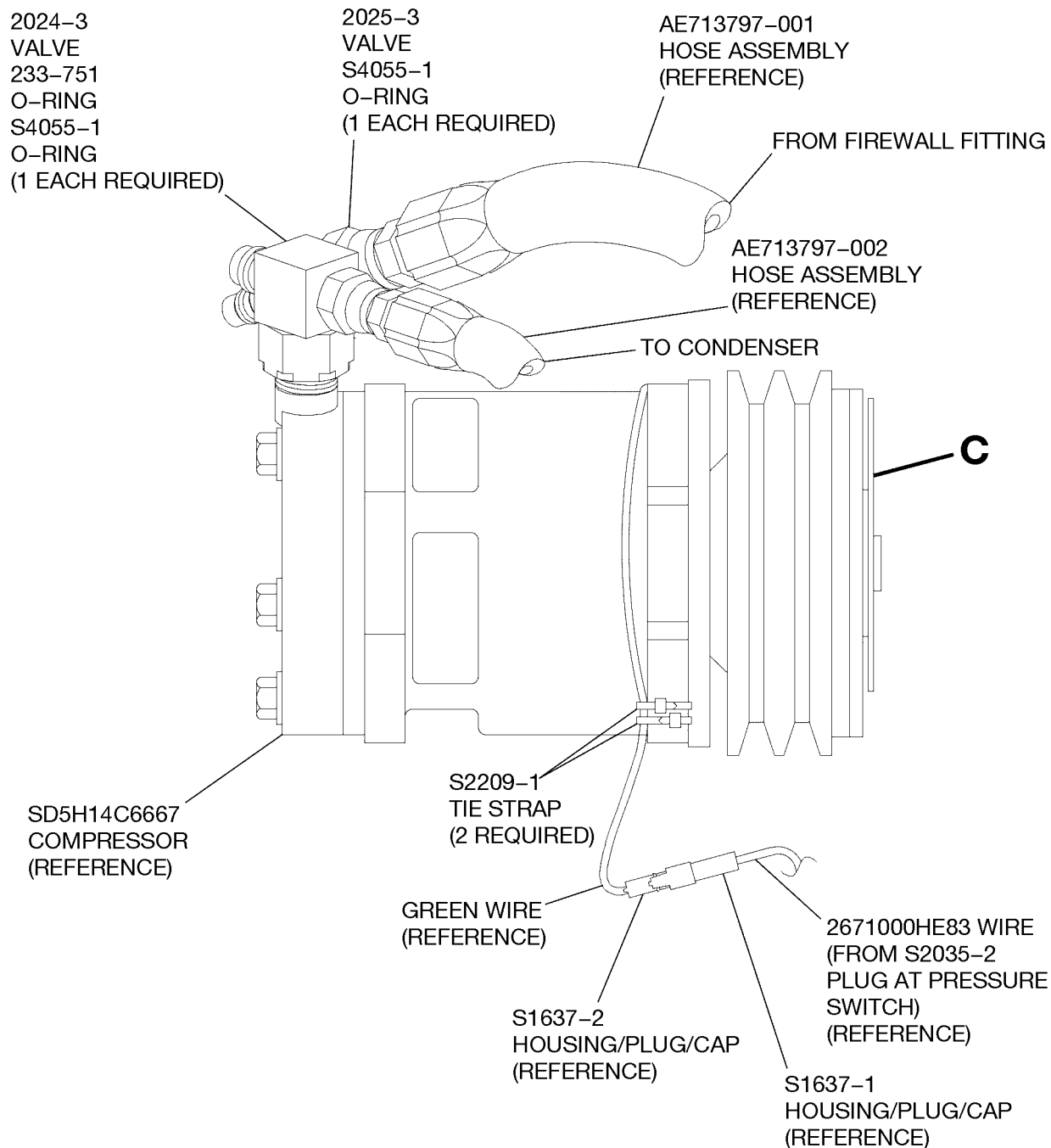
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Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 3)

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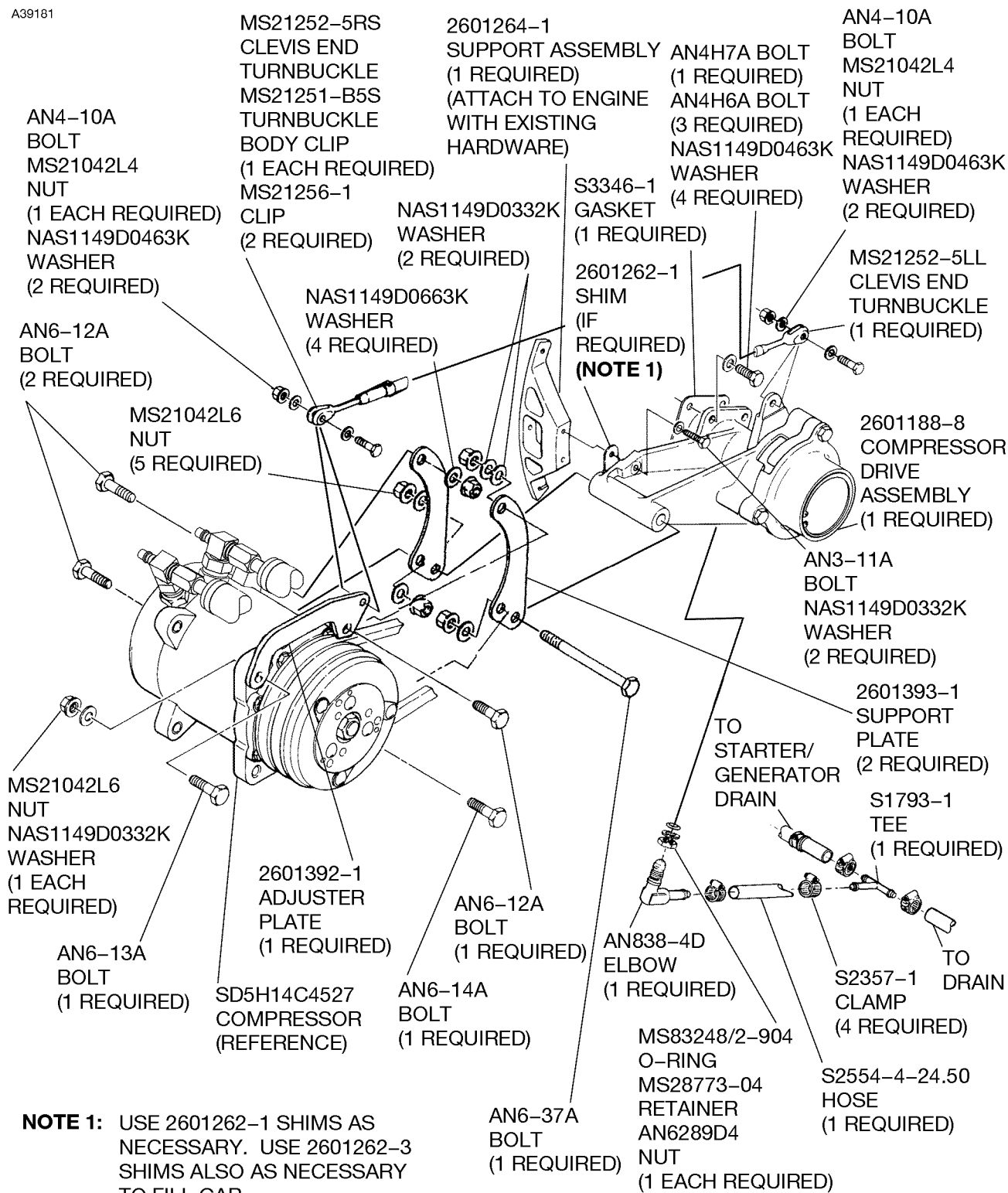
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Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 4)

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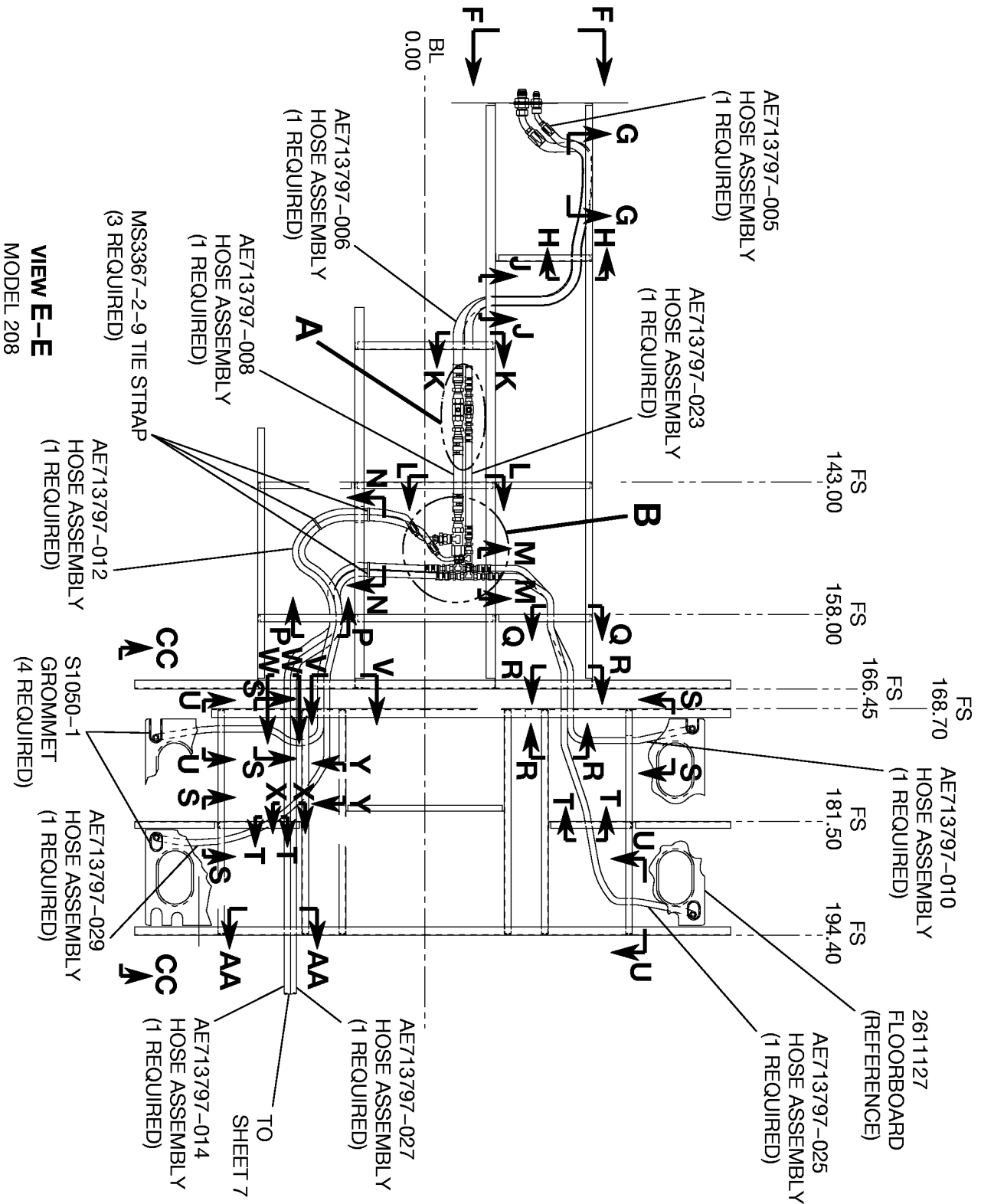
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Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 5)

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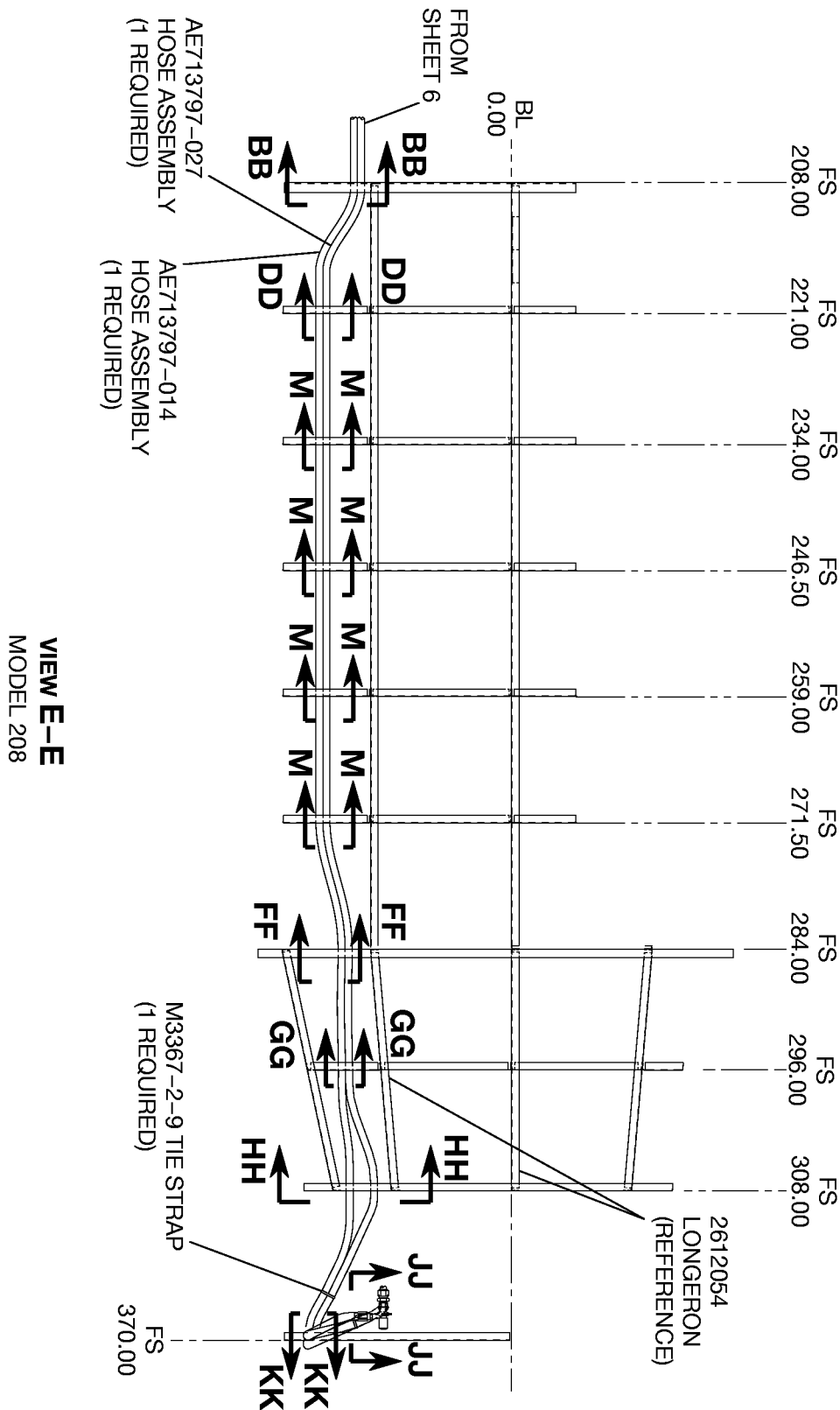
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Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 6)

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A39153



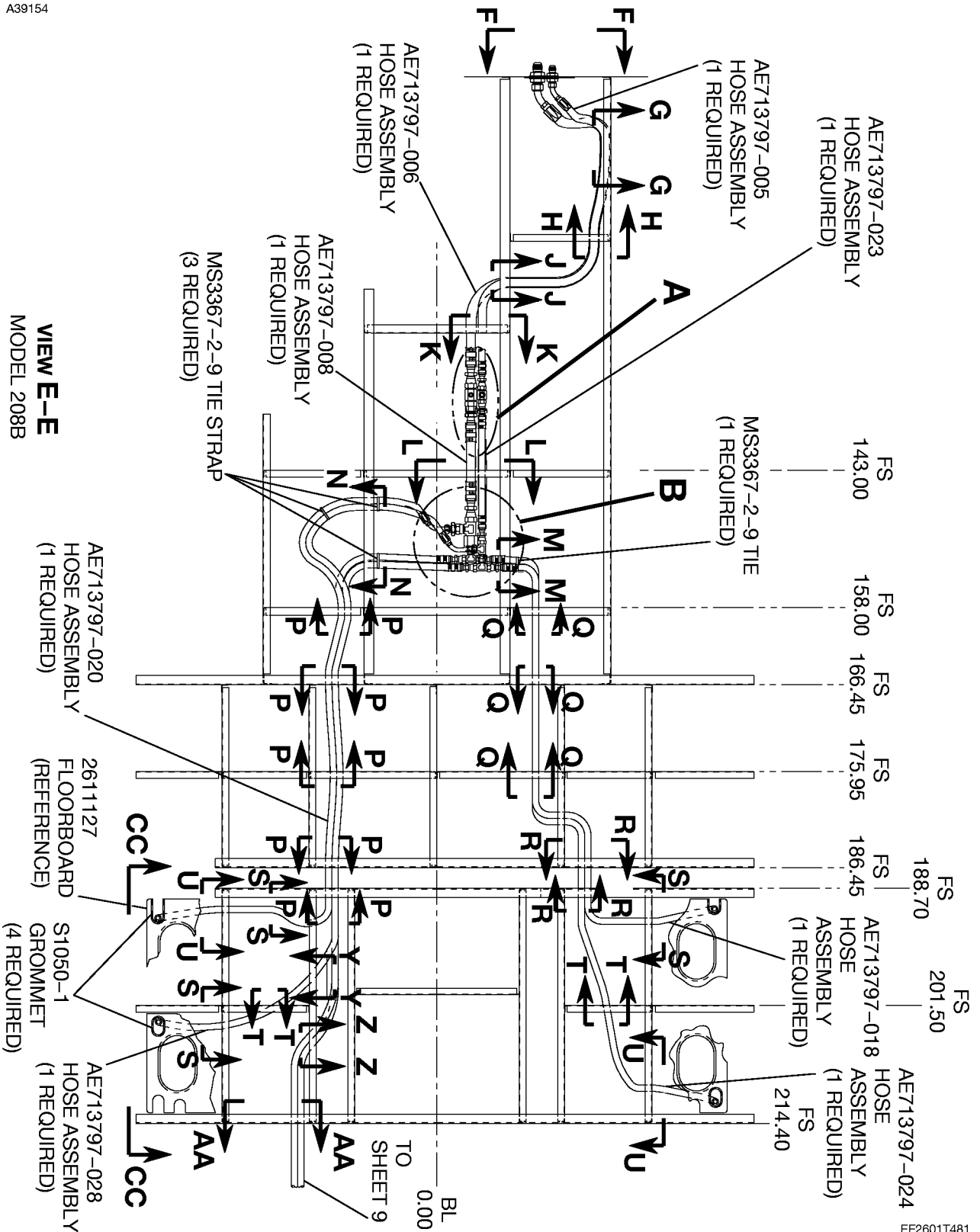
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Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 7)

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SK208-157A

A39154



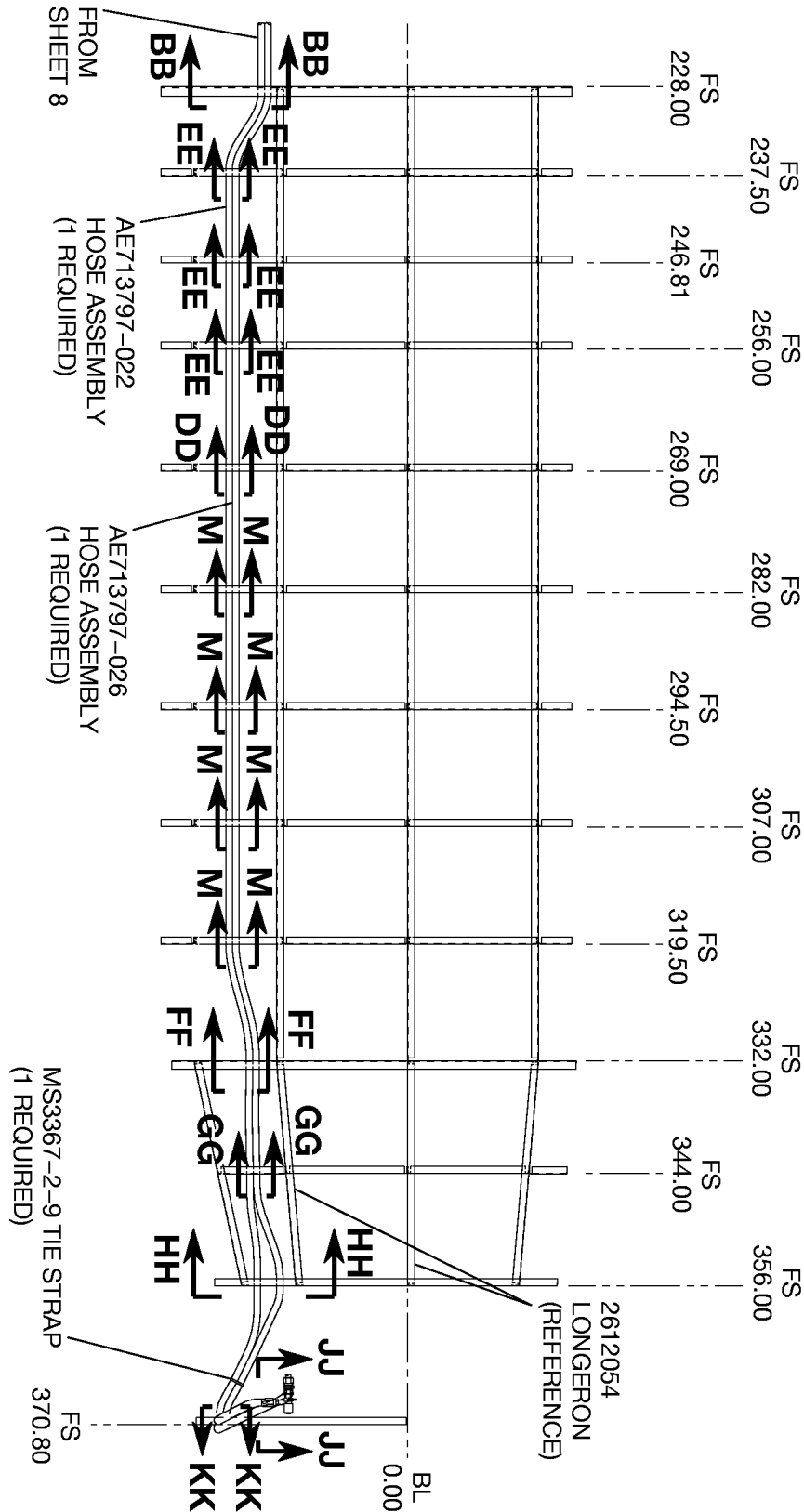
EE2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 8)

SERVICE KIT

SK208-157A

A39155



VIEW E-E
MODEL 208B

EE2601T481

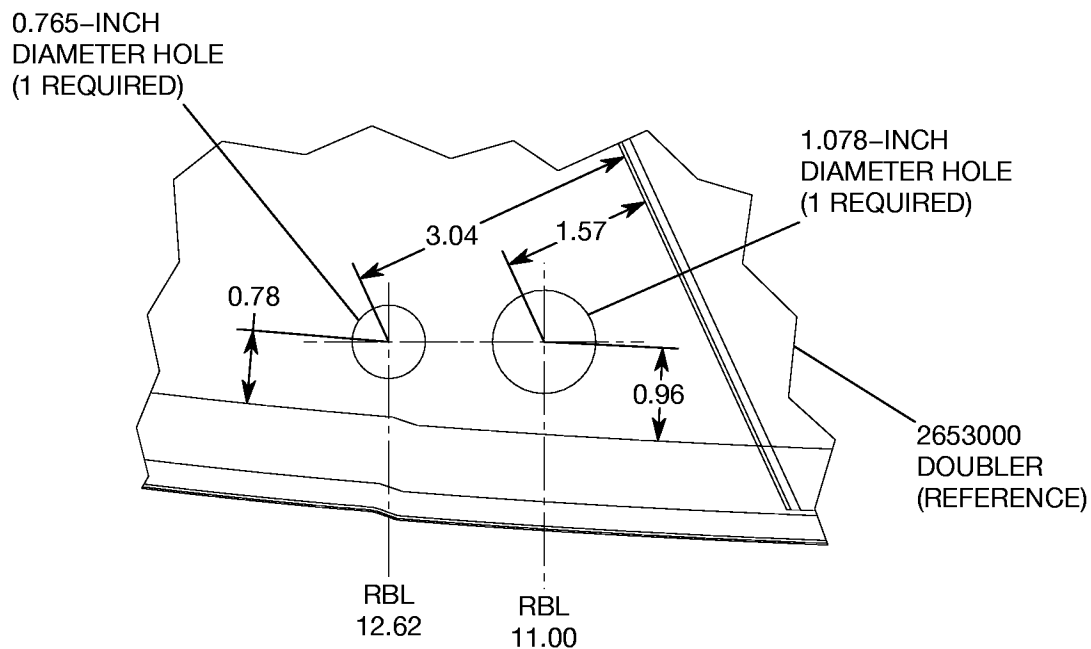
Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 9)

SERVICE KIT

SK208-157A

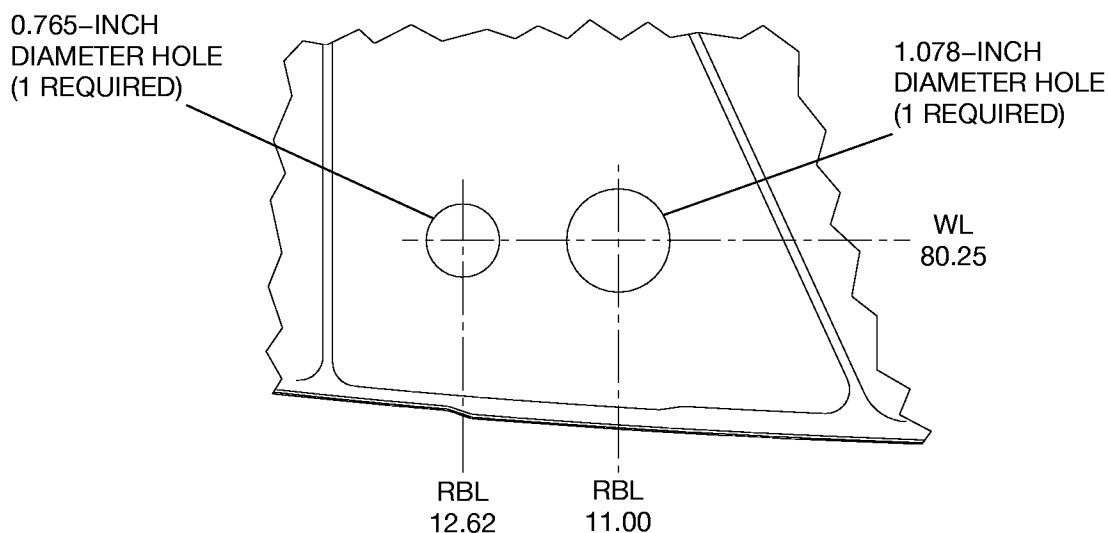
A39156

NOTE 2: ALL DIMENSIONS SHOWN ARE IN INCHES.



VIEW F-F

20800140 THRU 20800328 AND
208B0214 AND ON



VIEW F-F

20800329 AND ON

FF2601T481

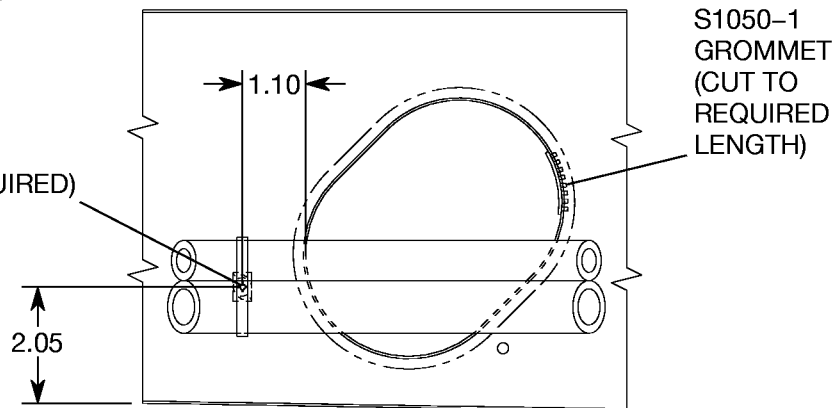
Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 10)

SERVICE KIT

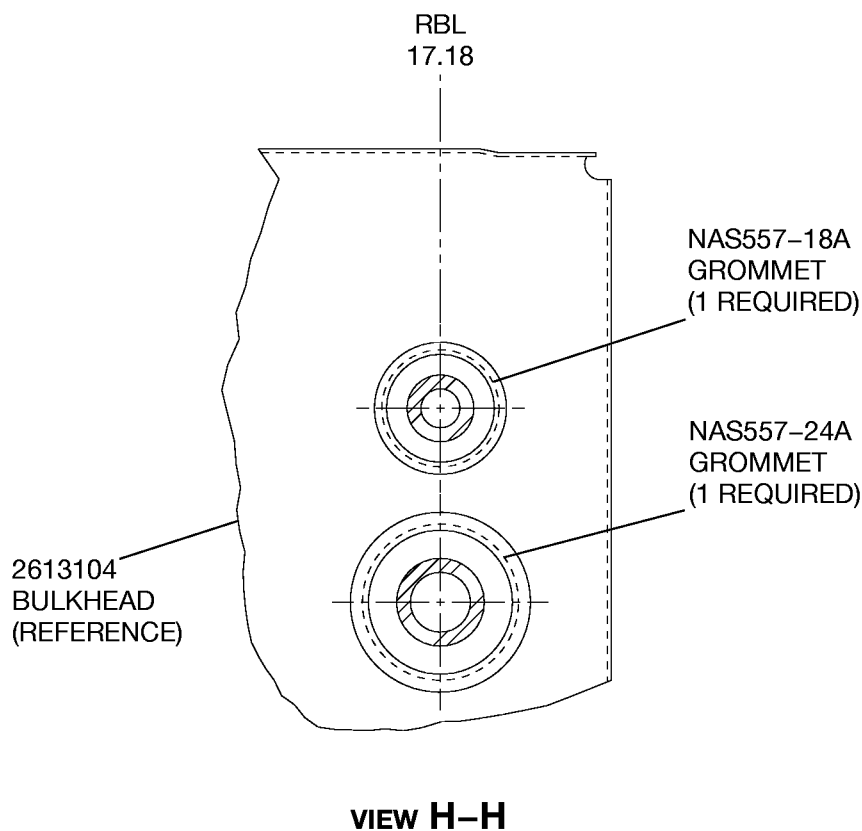
SK208-157A

A39157

NUMBER 37
(0.104-INCH
DIAMETER) HOLE
MS20470A4-4
RIVET
S1741-1
ANCHOR
MS3367-2-9
TIE STRAP
(1 EACH REQUIRED)



VIEW G-G



VIEW H-H

GG2601T481
HH2601T481

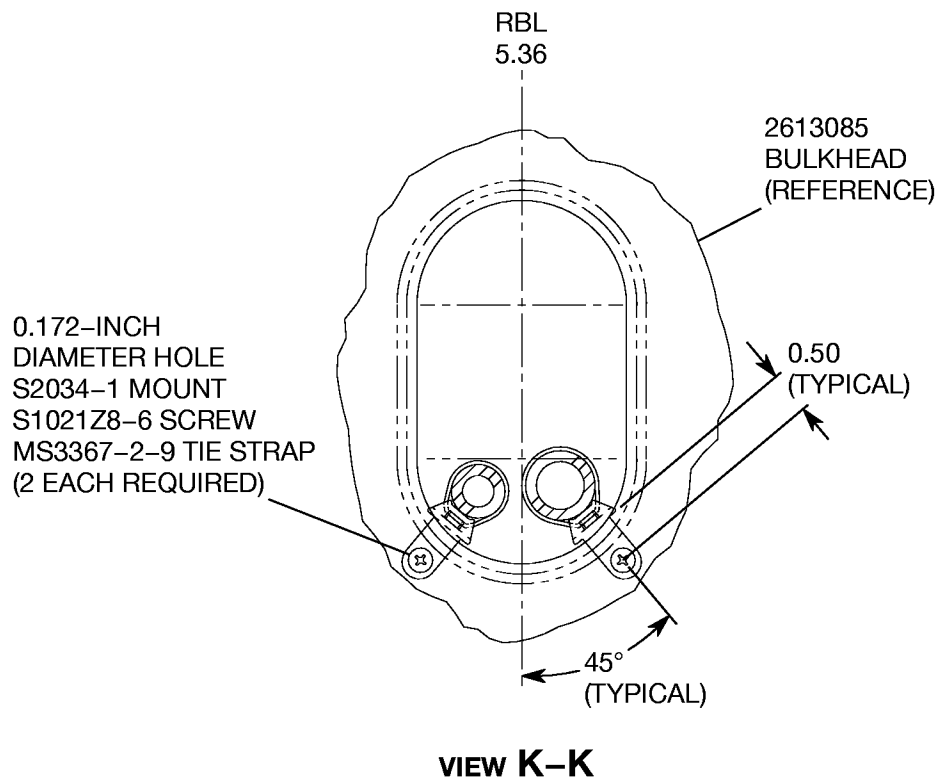
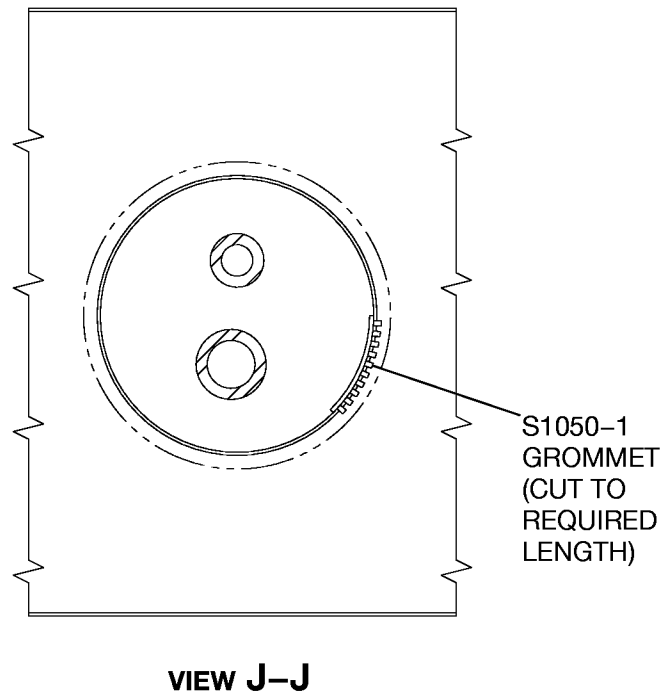
Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 11)

SK208-157A
January 18, 2011

SERVICE KIT

SK208-157A

A39158



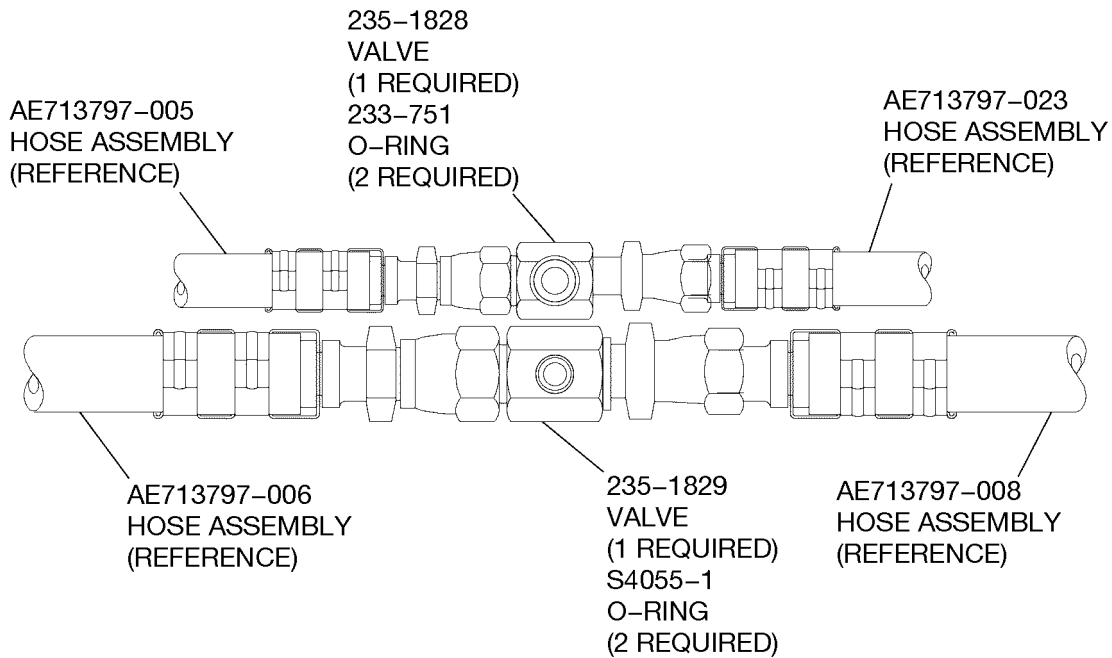
JJ2601T481
KK2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 12)

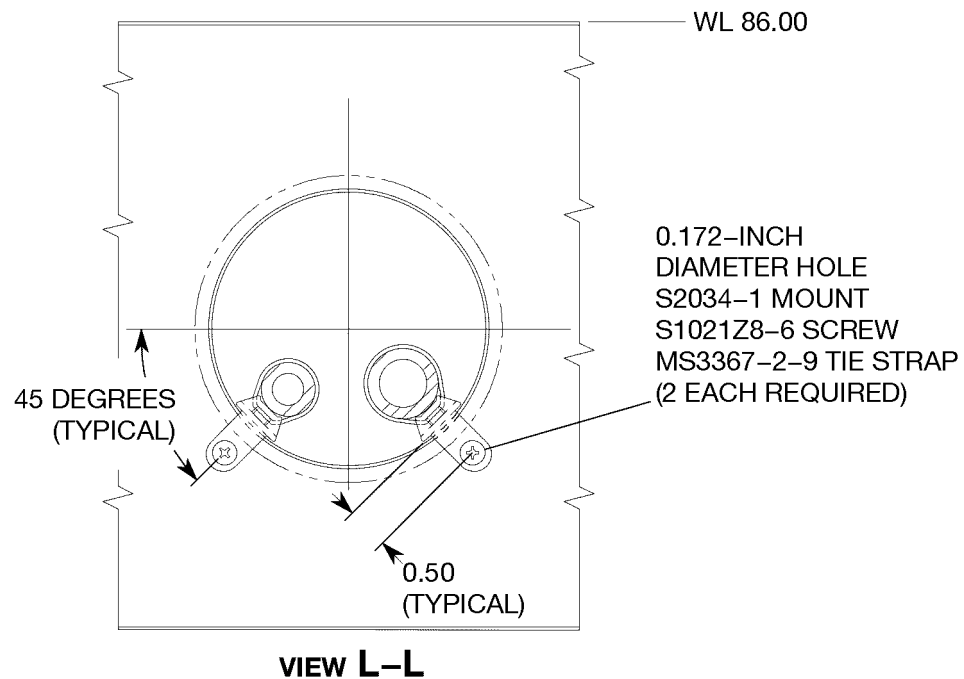
SERVICE KIT

SK208-157A

A39159



DETAIL A



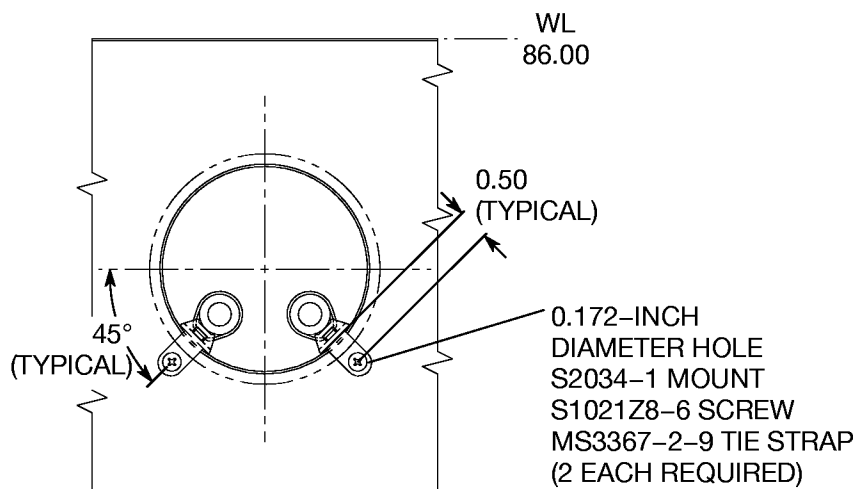
A2601481
LL26014081

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 13)

SERVICE KIT

SK208-157A

A39160



VIEW M-M

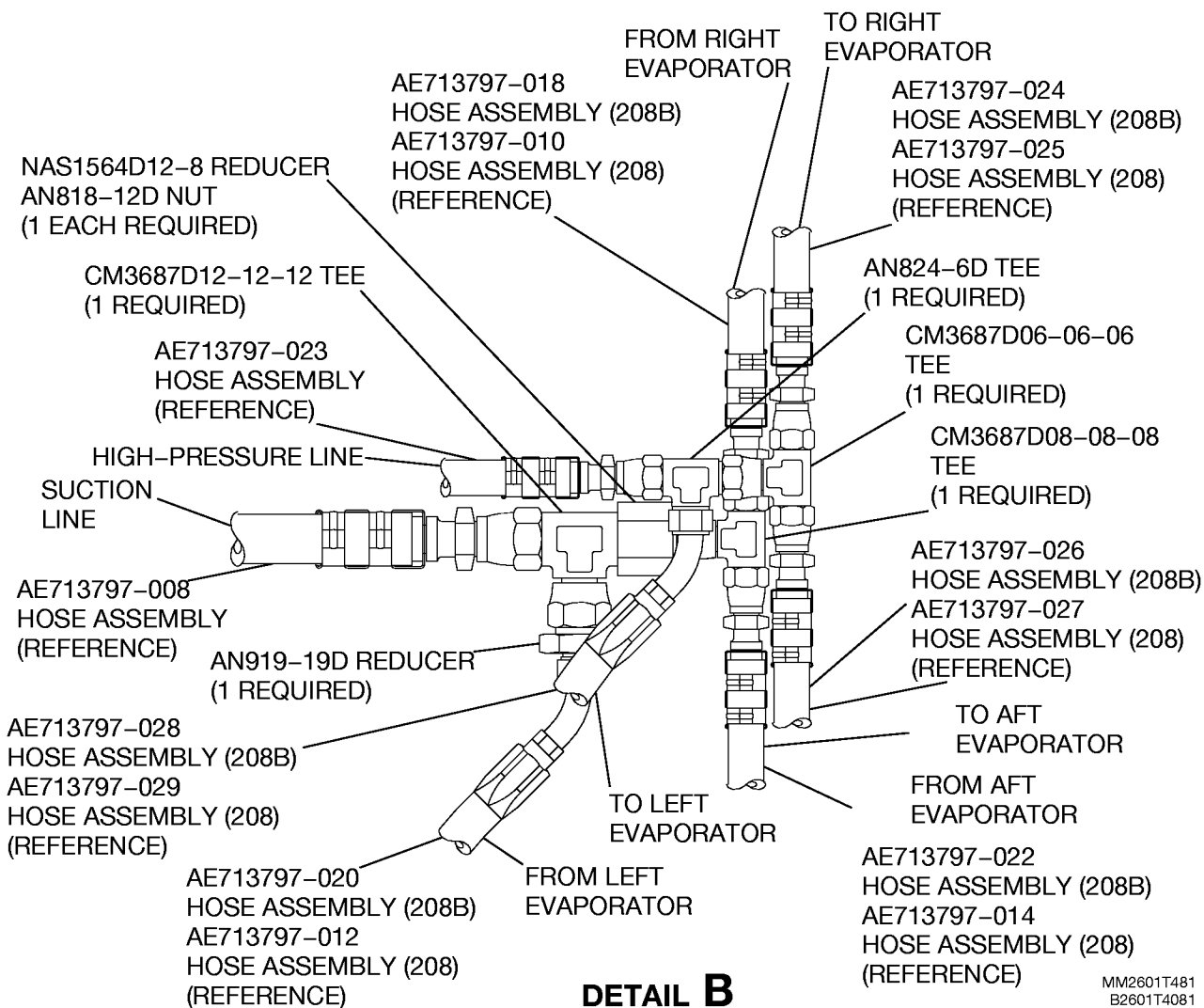
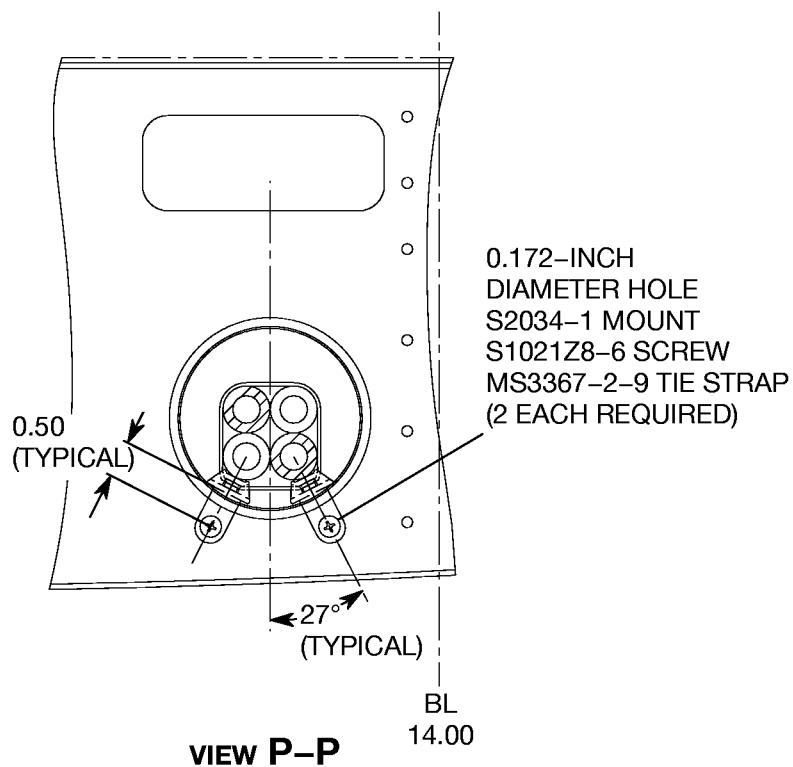
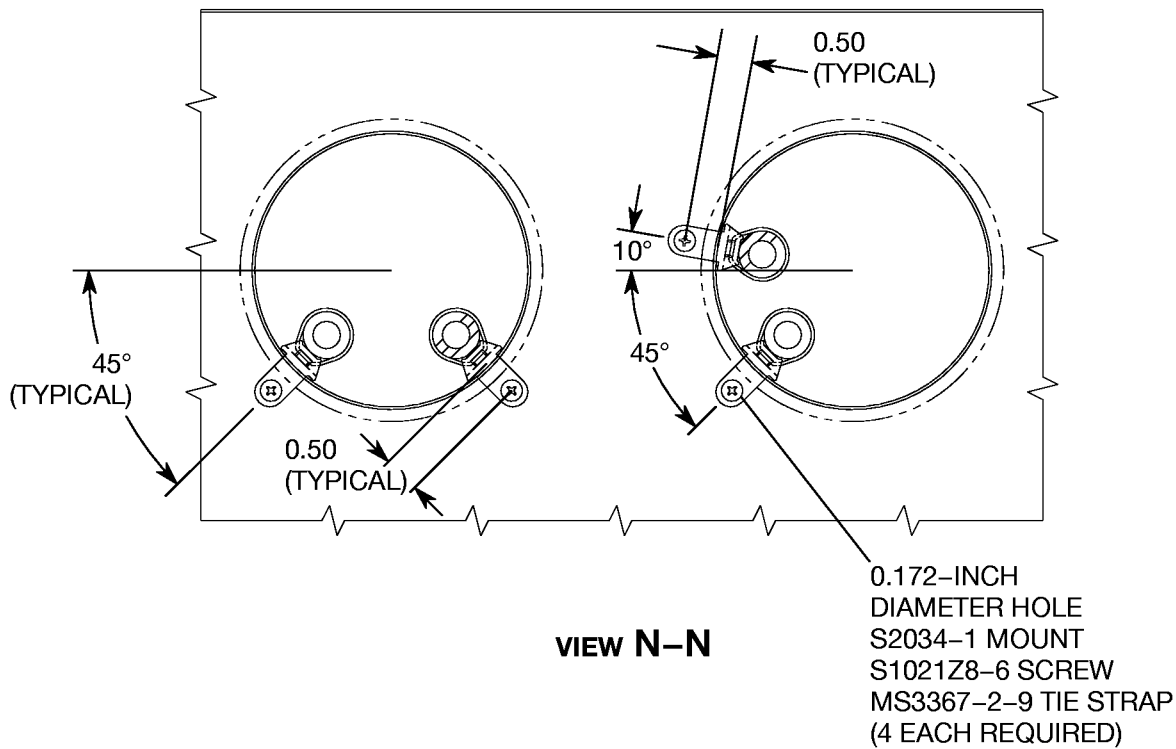


Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 14)

SERVICE KIT

SK208-157A

A39161



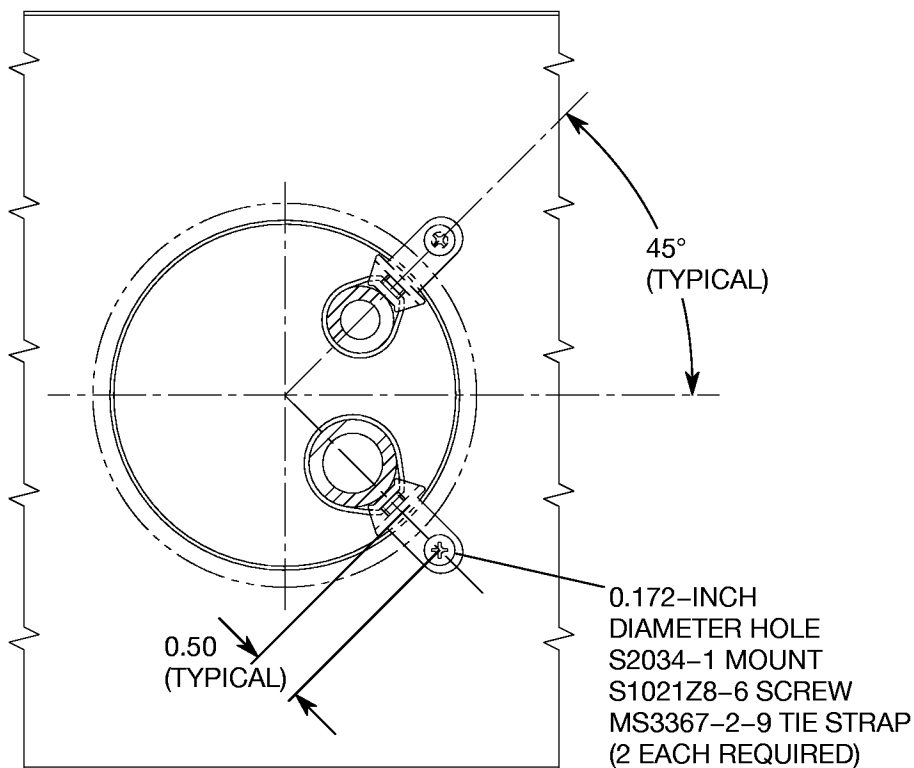
NN2601T481
PP2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 15)

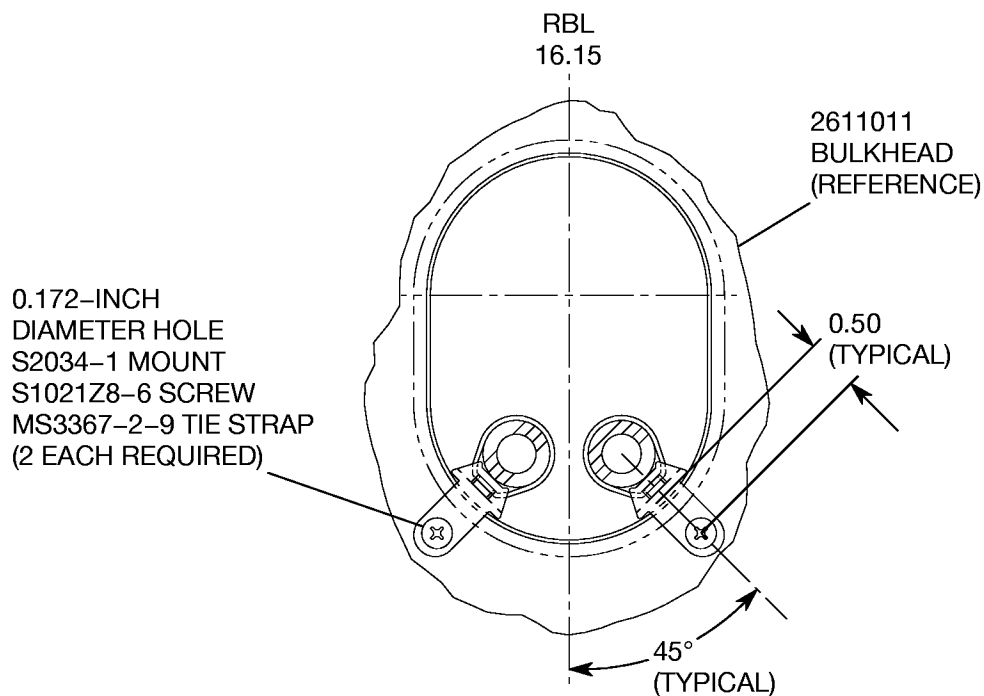
SERVICE KIT

SK208-157A

A39162



VIEW Q-Q



VIEW R-R

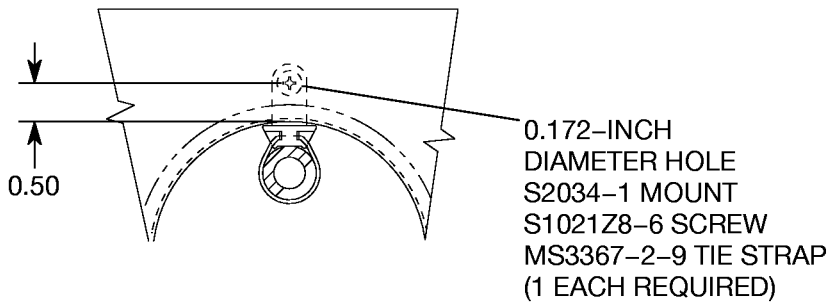
QQ2601T481
RR2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 16)

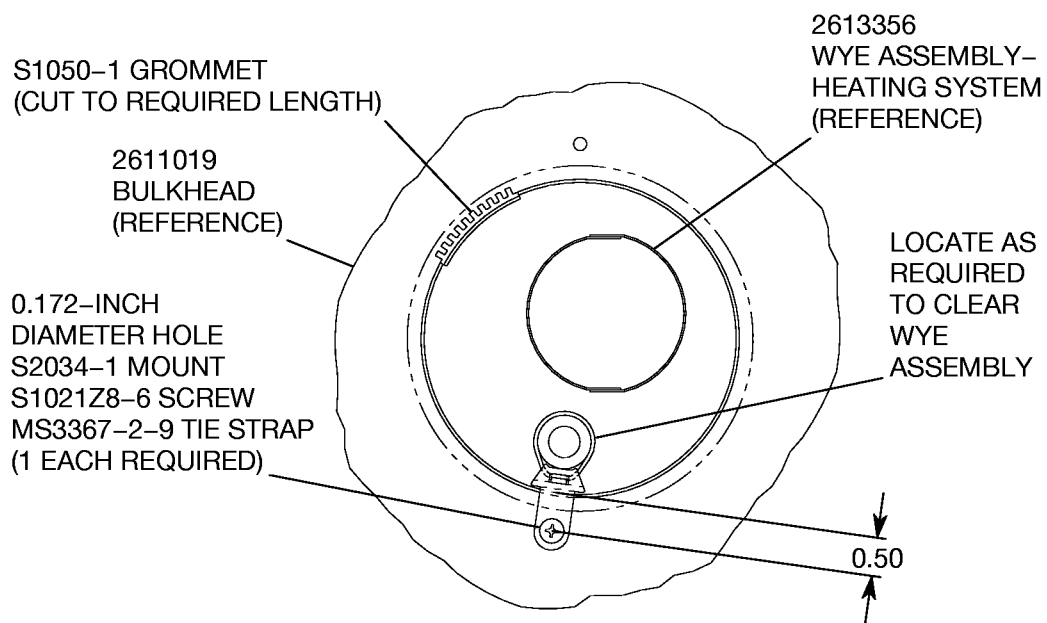
SERVICE KIT

SK208-157A

A39163

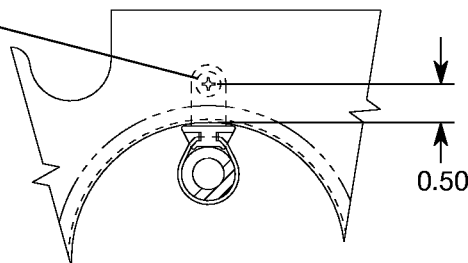


VIEW S-S



VIEW T-T

0.172-INCH
DIAMETER HOLE
S2034-1 MOUNT
S1021Z8-6 SCREW
MS3367-2-9 TIE STRAP
(1 EACH REQUIRED)



VIEW U-U

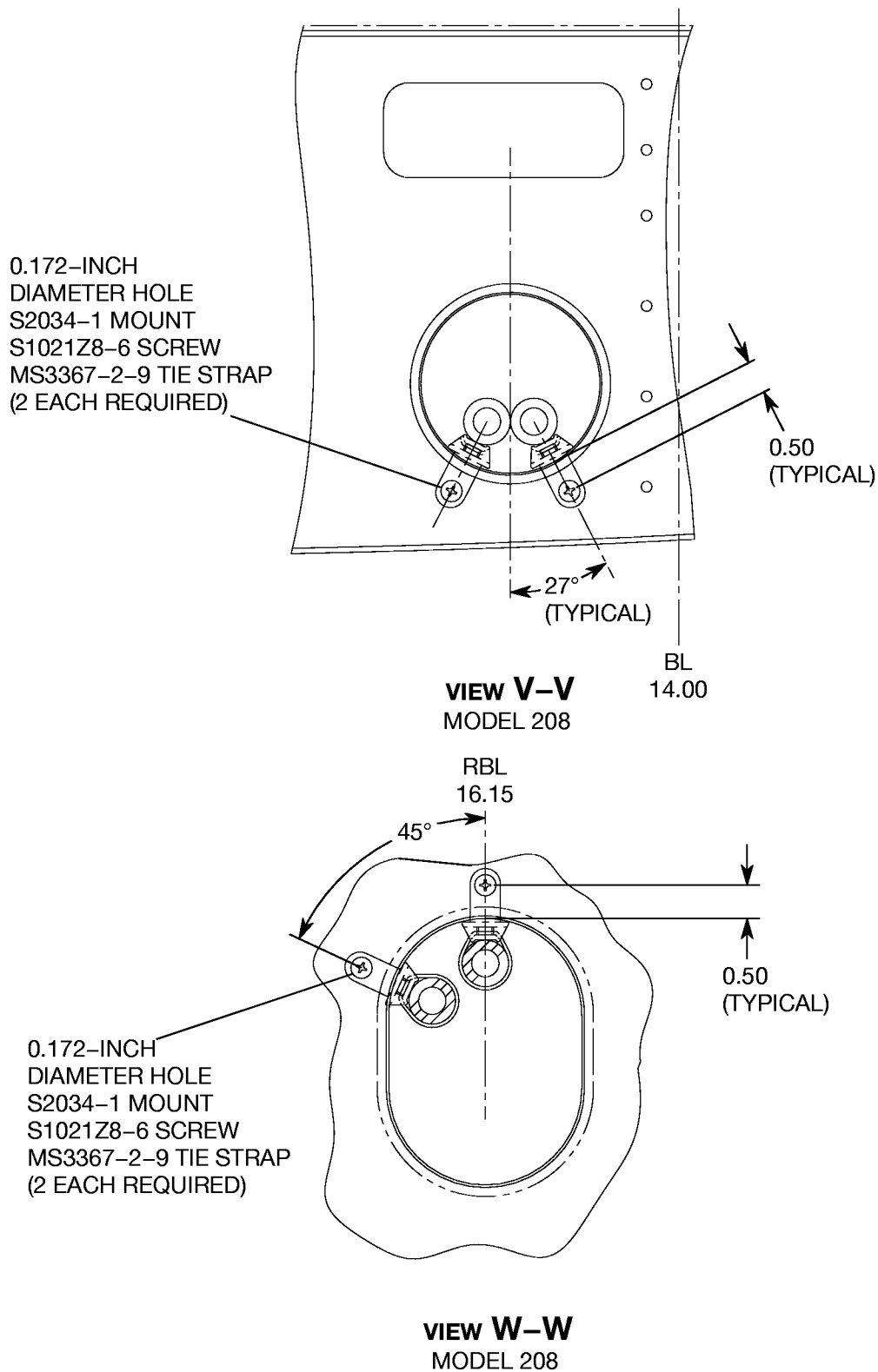
SS2601T481
TT2601T481
UU2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 17)

SERVICE KIT

SK208-157A

A39164



VV2601T481
WW2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 18)

SERVICE KIT

SK208-157A

A39165

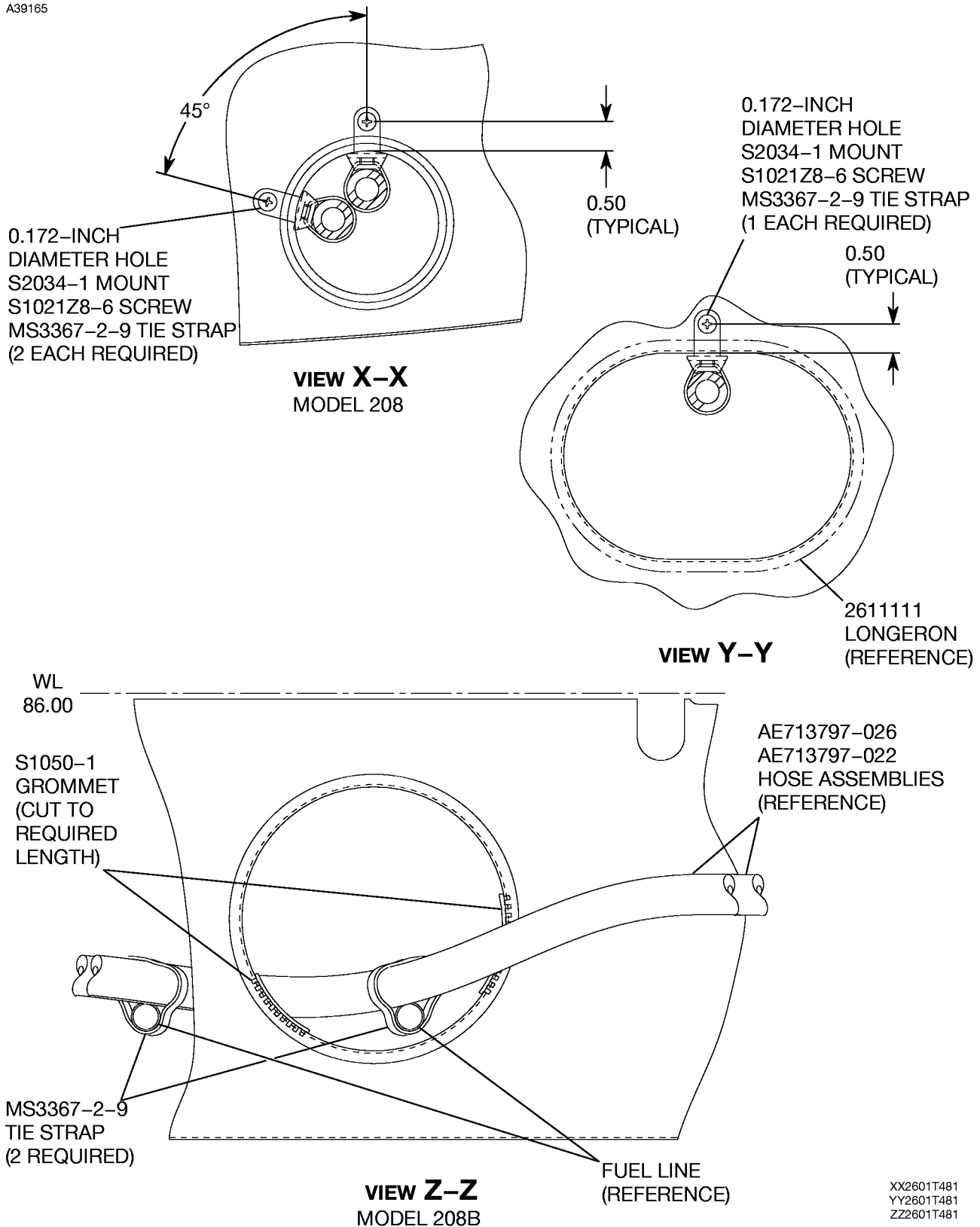
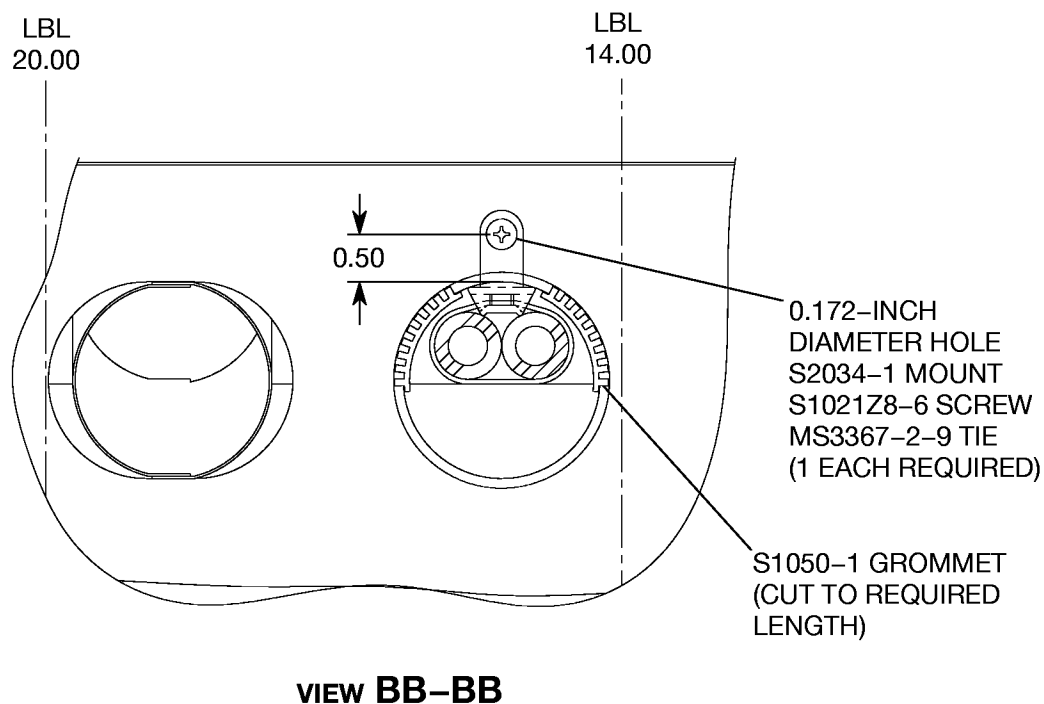
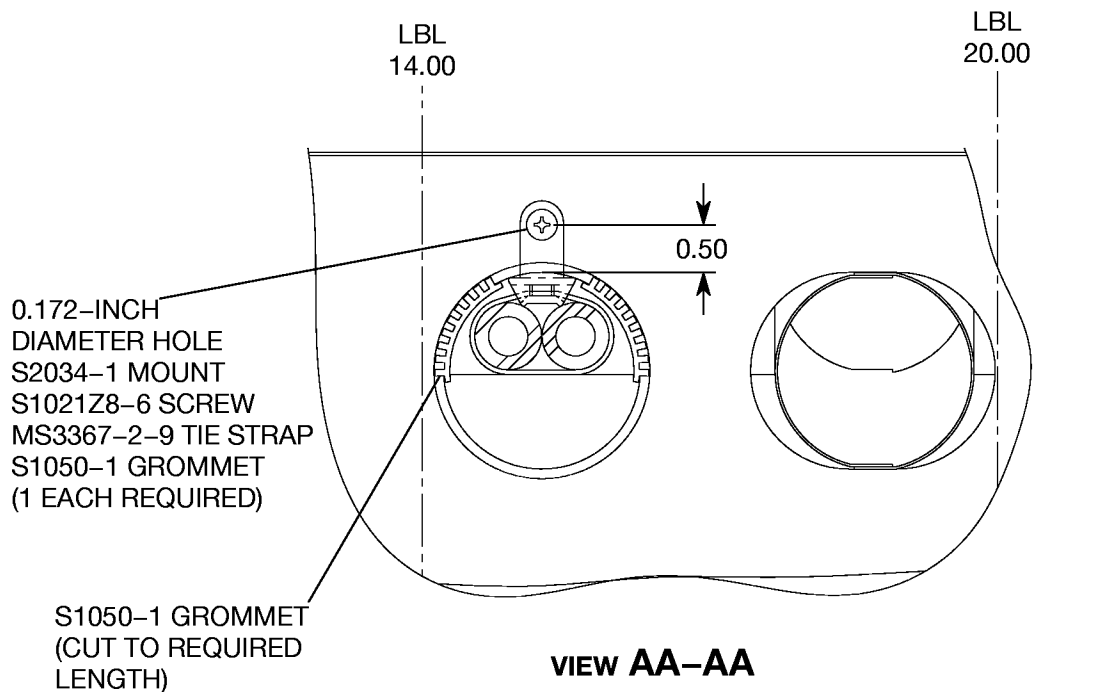


Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 19)

SERVICE KIT

SK208-157A

A39166



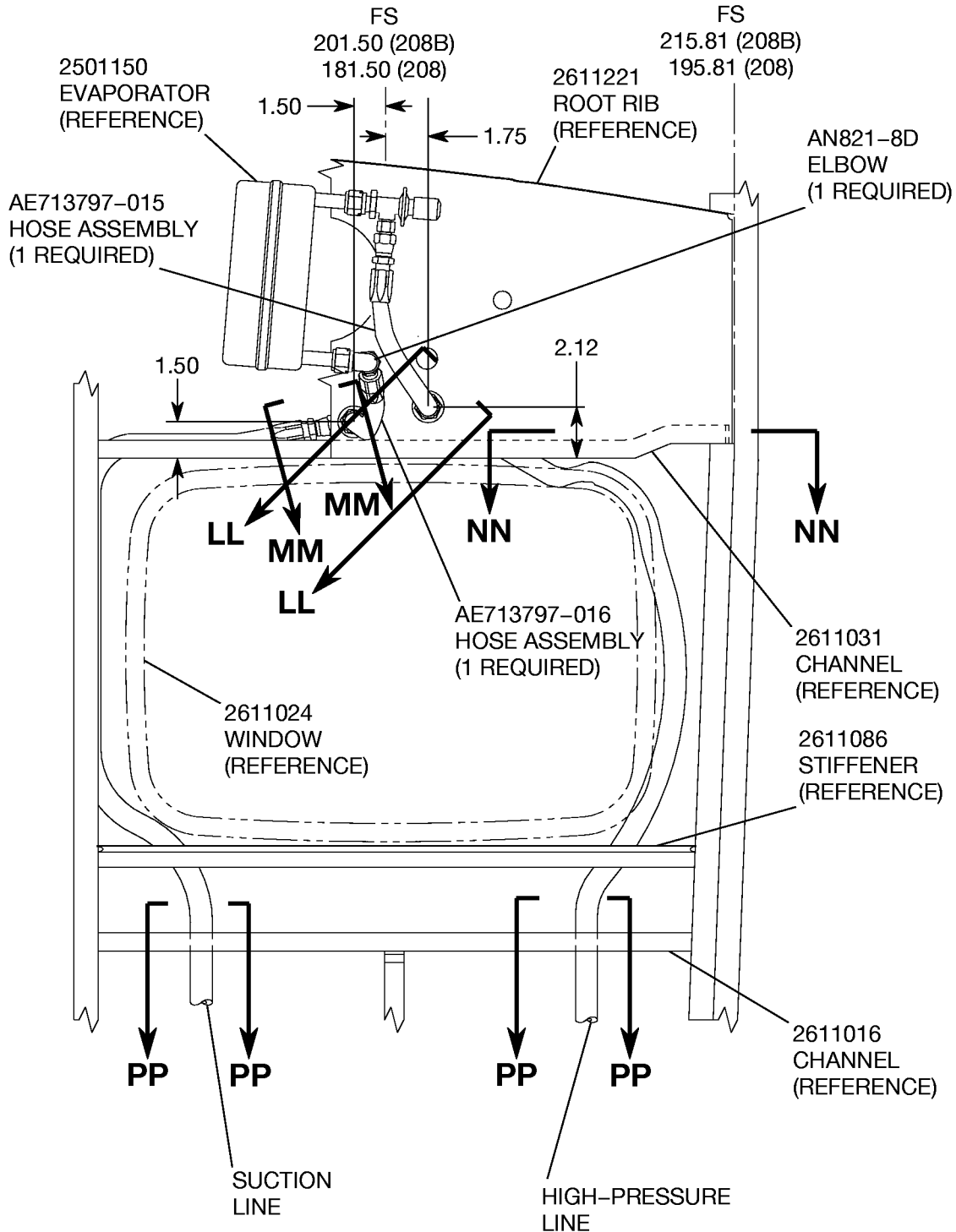
AA-AA2601T481
BB-BB2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 20)

SERVICE KIT

SK208-157A

A39167

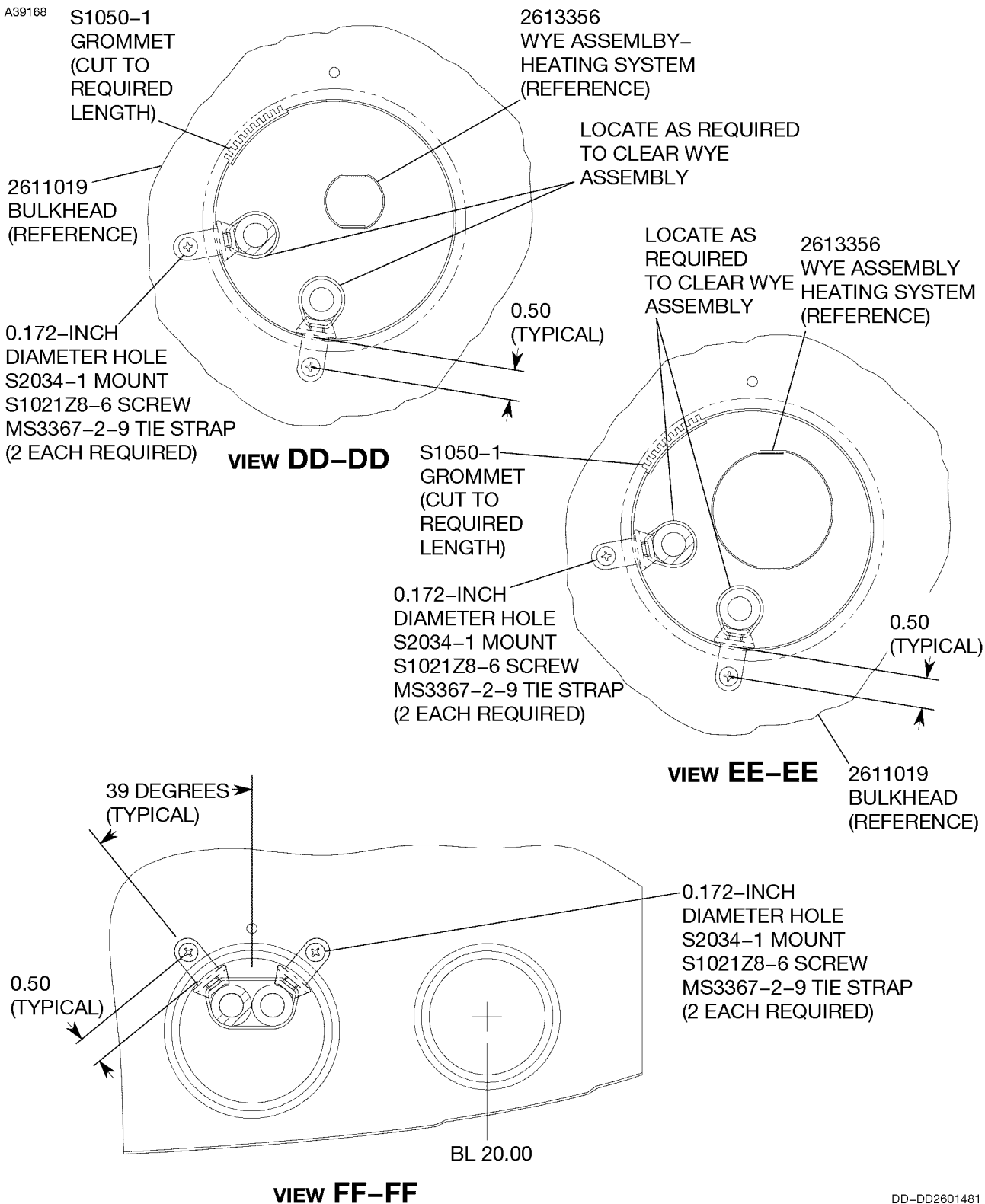


CC-CC2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 21)

SERVICE KIT

SK208-157A



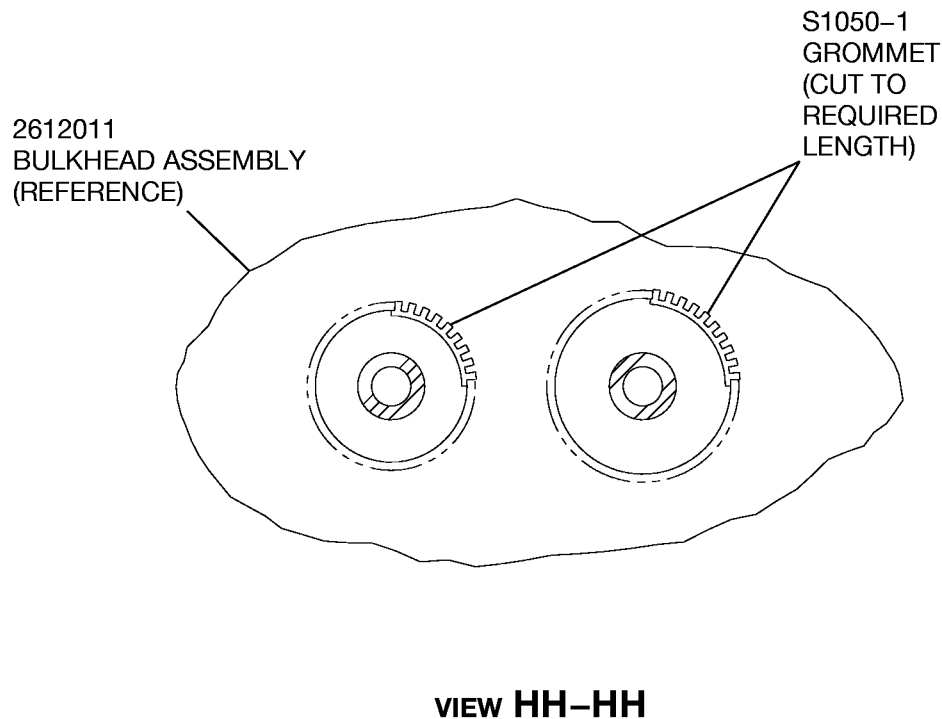
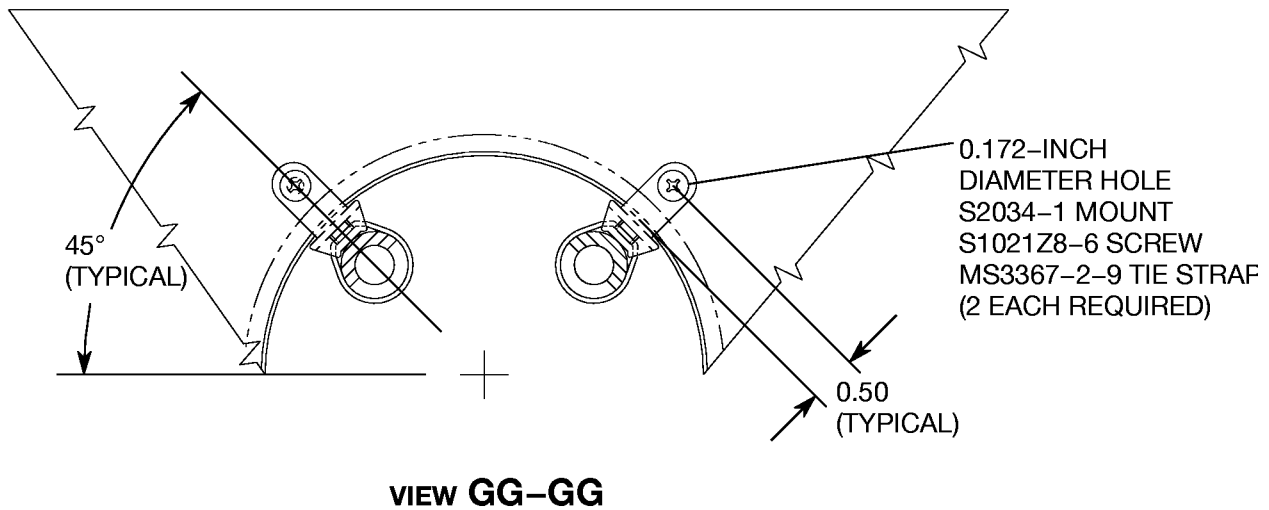
DD-DD2601481
EE-EE2601481
FF-FF2601481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 22)

SERVICE KIT

SK208-157A

A39169



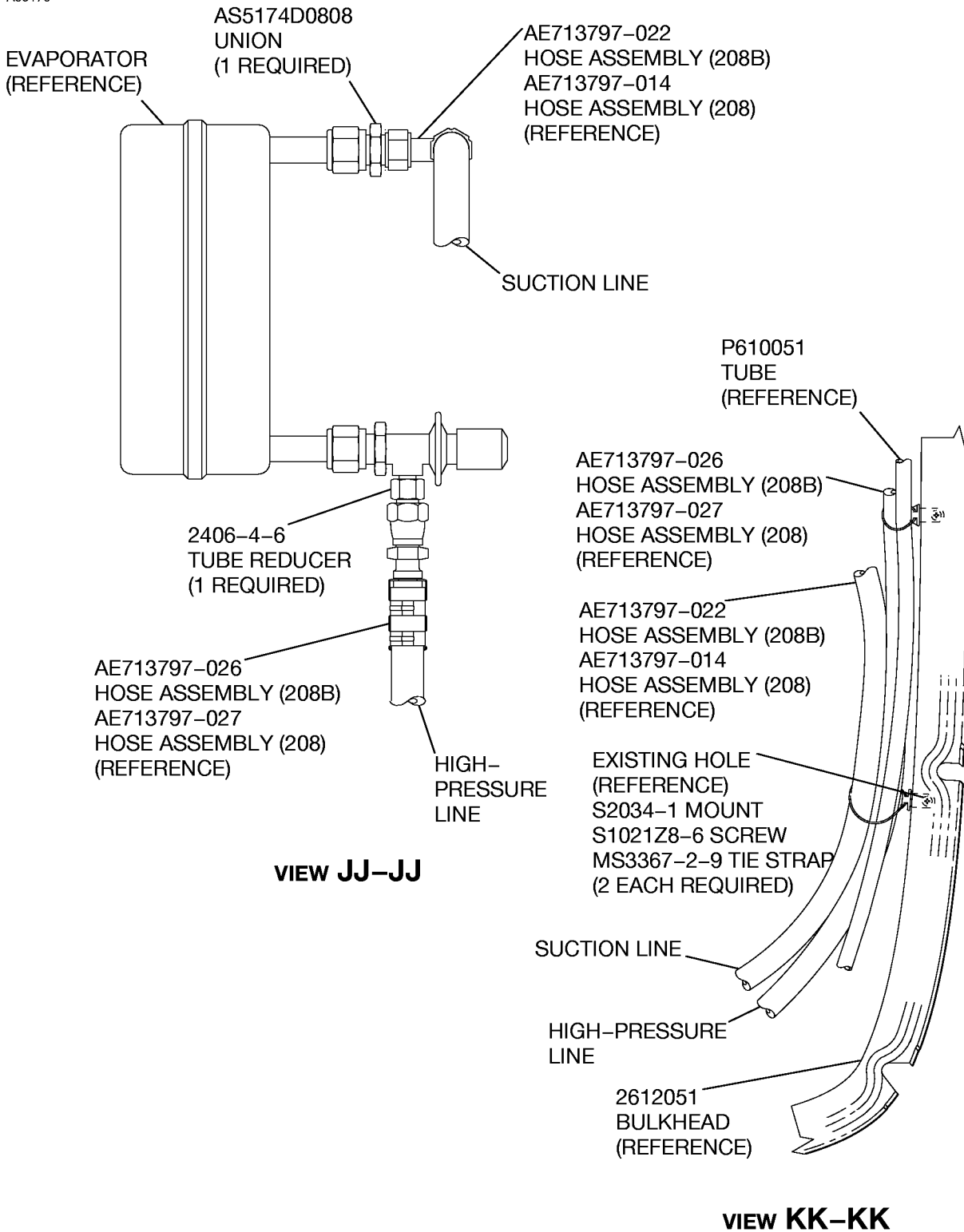
GG-GG2601T481
HH-HH2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 23)

SERVICE KIT

SK208-157A

A39170



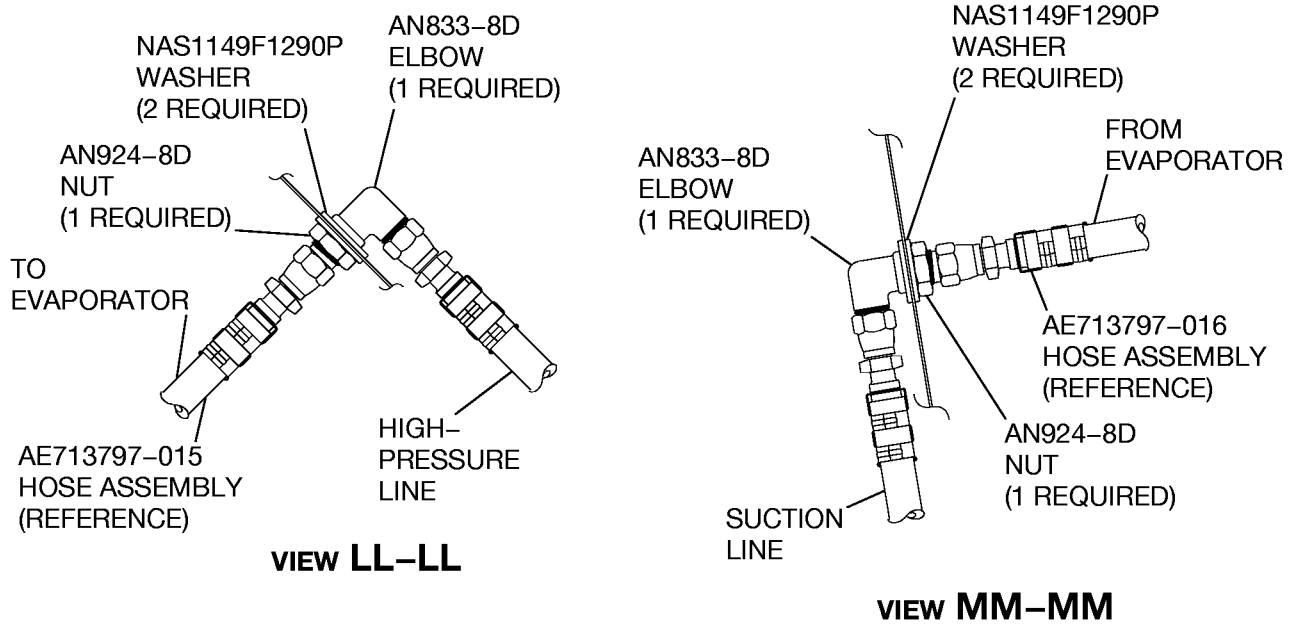
JJ-JJ2601T481
KK-KK2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 24)

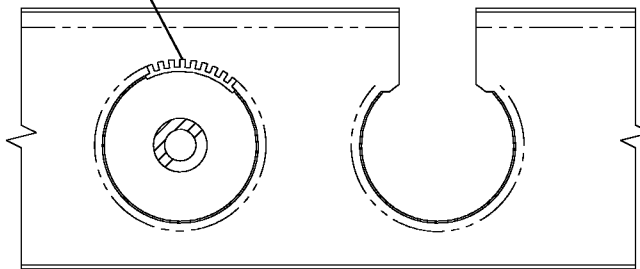
SERVICE KIT

SK208-157A

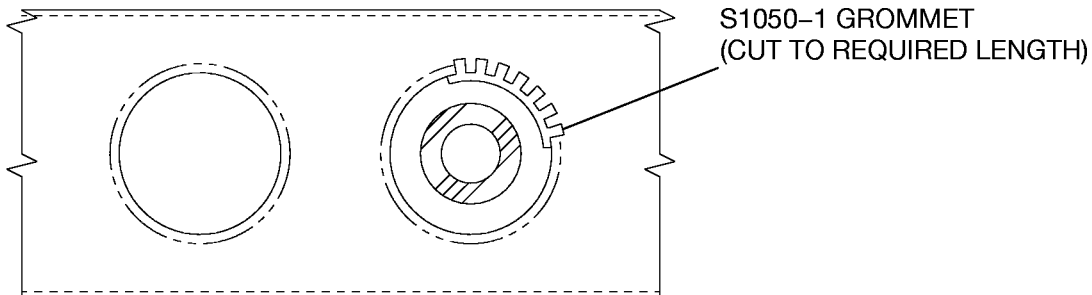
A39171



S1050-1 GROMMET
(CUT TO REQUIRED LENGTH)



VIEW NN-NN



VIEW PP-PP

LL-LL2601T481
MM-MM2601T481
NN-NN2601T481
PP-PP2601T481

Figure 1. Receiver/Dryer, Compressor, and Hose Routing Installation (Sheet 25)

SERVICE KIT

SK208-157A

A39172

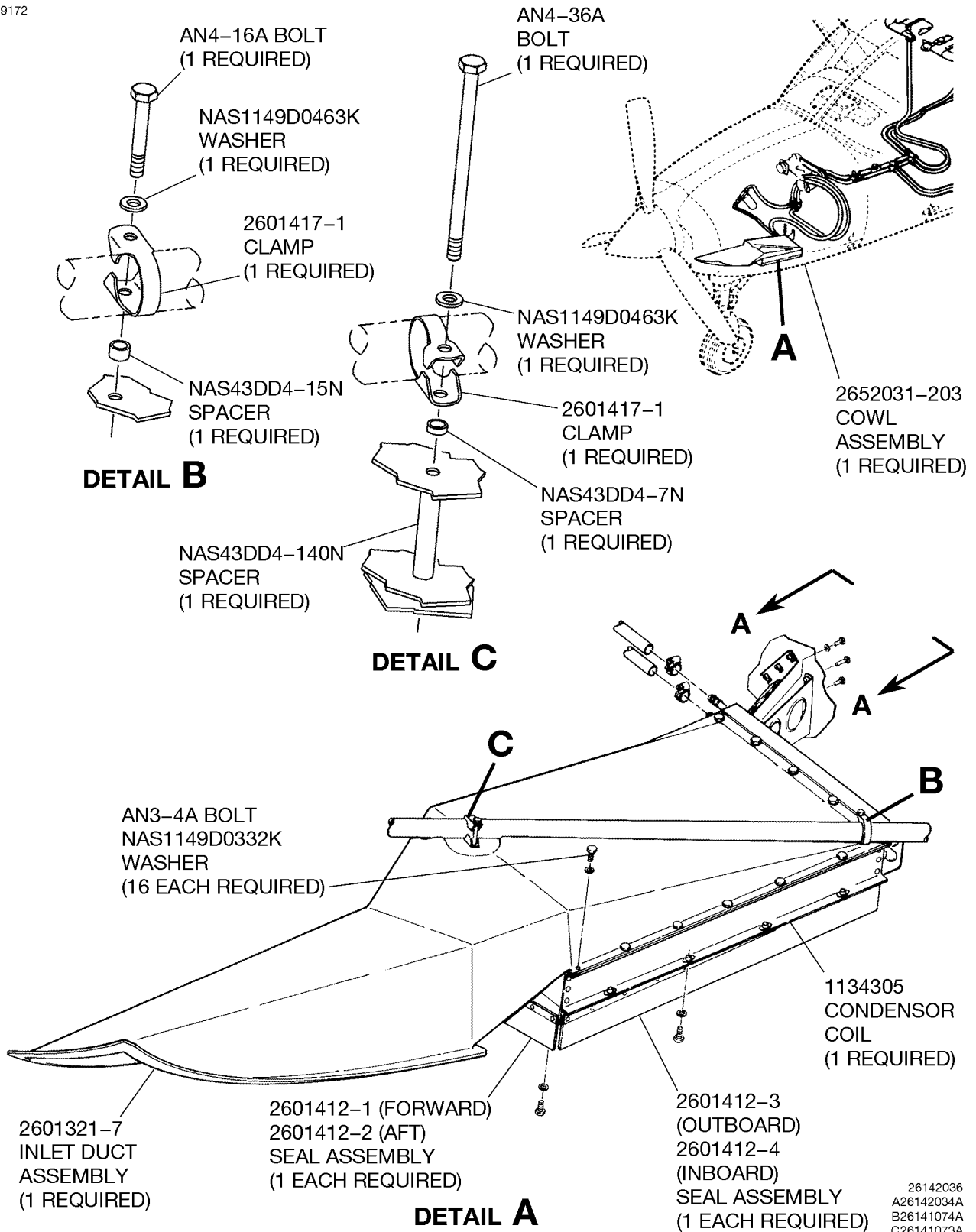
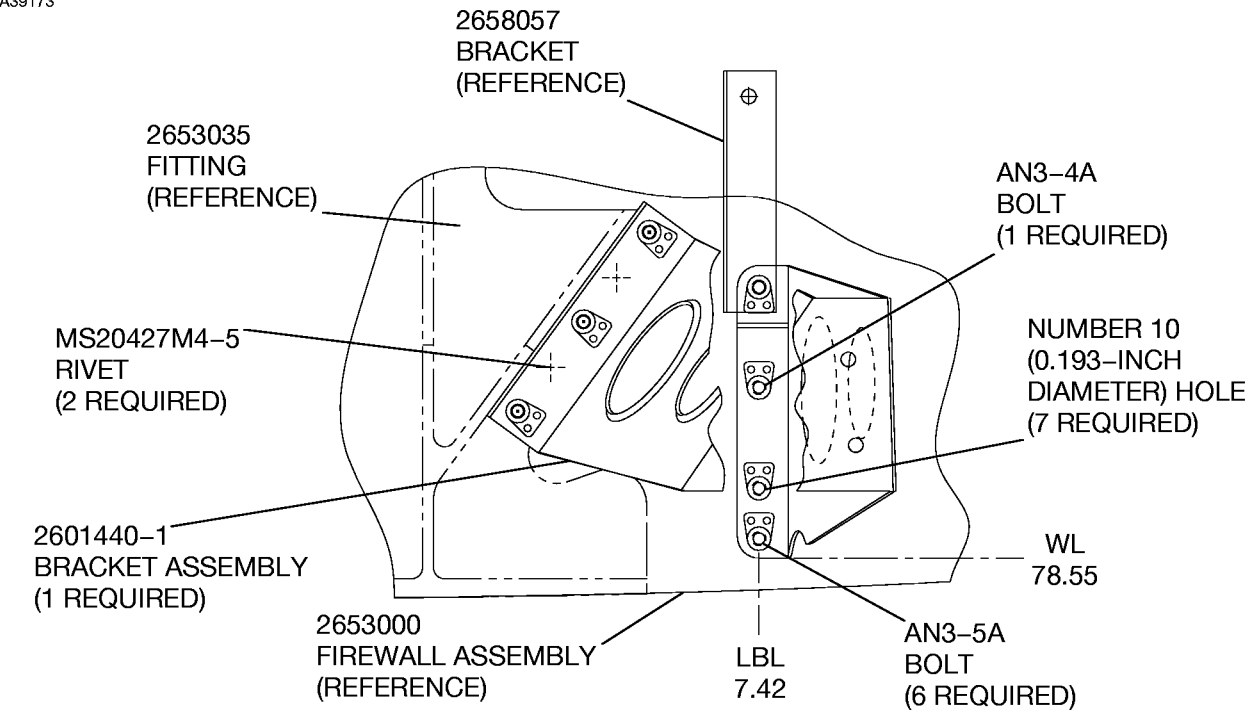


Figure 2. Condenser Installation (Sheet 1)

SERVICE KIT

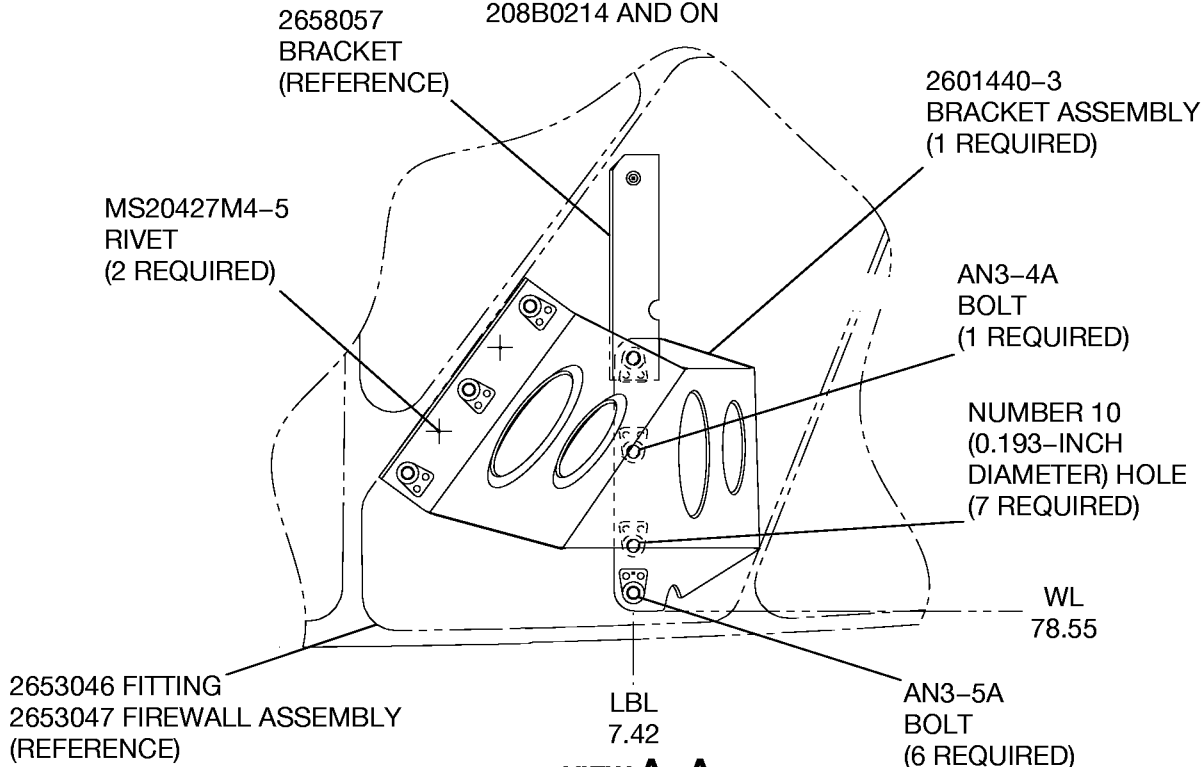
SK208-157A

A39173



VIEW A-A

20800140 THRU 20800328 AND
208B0214 AND ON



VIEW A-A

20800329 AND ON

AA2690T013
AA2690T013

Figure 2. Condenser Installation (Sheet 2)

SERVICE KIT

SK208-157A

A39174

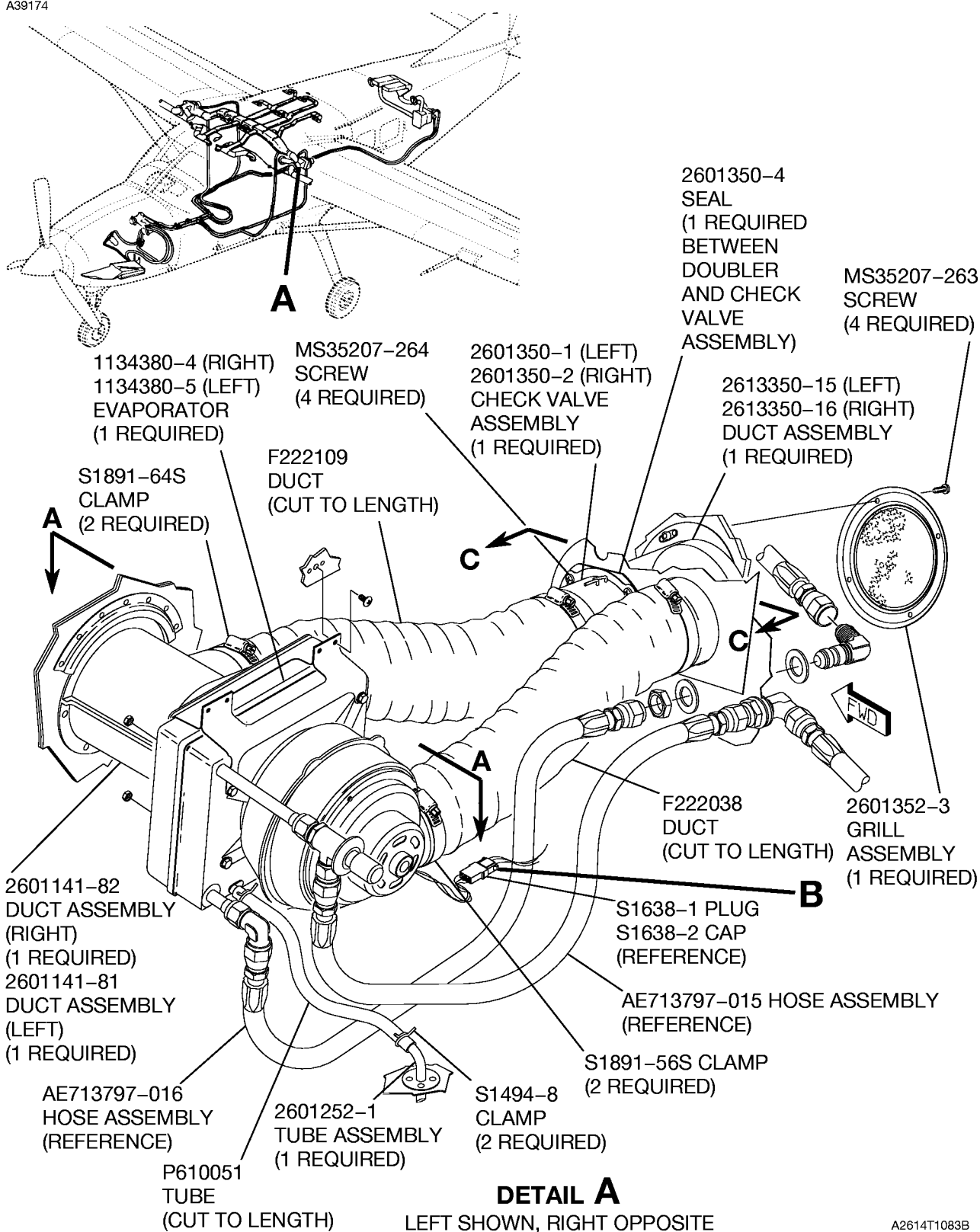


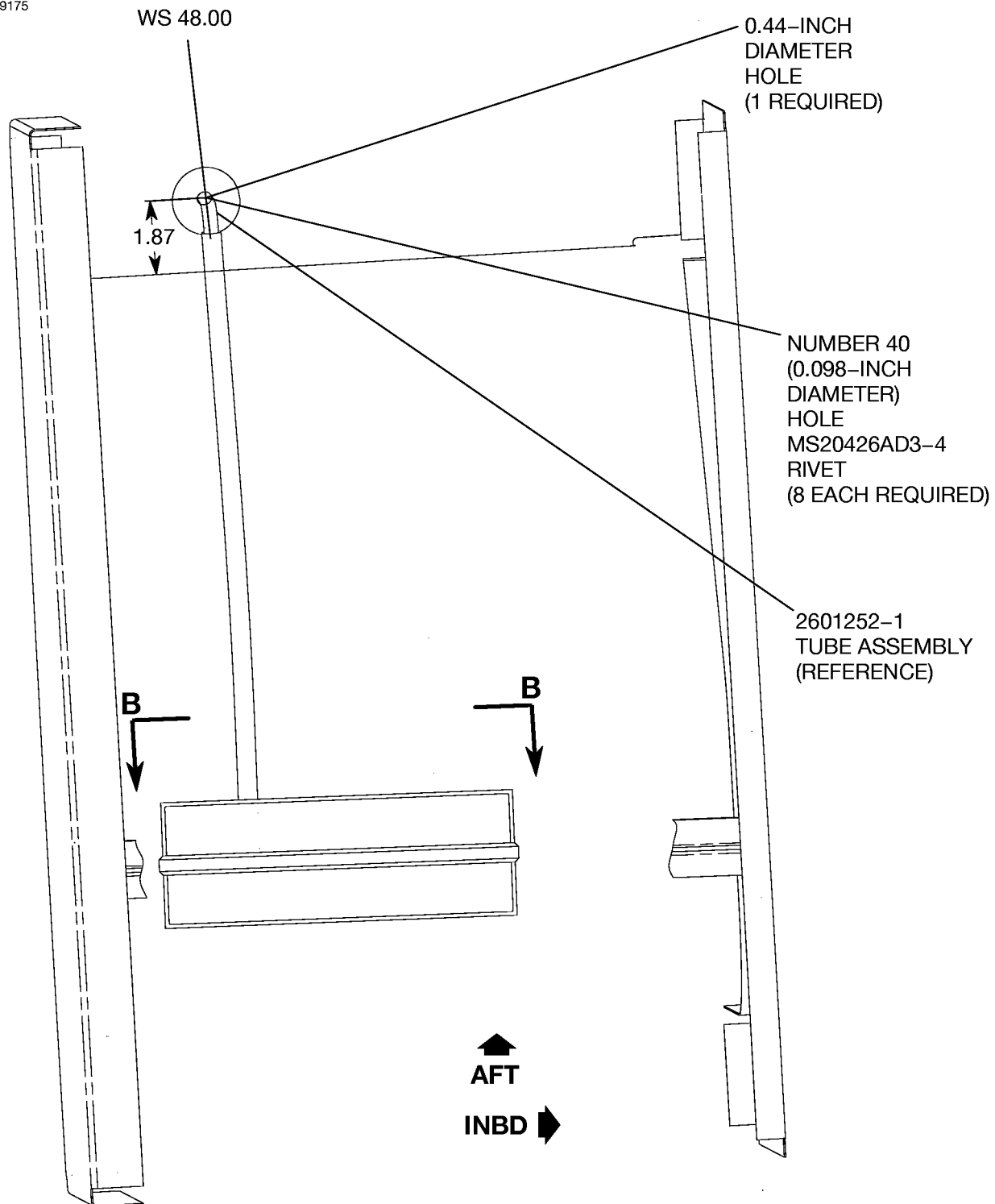
Figure 3. Wing Evaporator Installation (Sheet 1)

A2614T1083B

SERVICE KIT

SK208-157A

A39175



VIEW A-A

LOOKING DOWN AT WING SKIN
LEFT SHOWN, RIGHT OPPOSITE

NOTE: ALL DIMENSIONS SHOWN
ARE IN INCHES.

2615T003

Figure 3. Wing Evaporator Installation (Sheet 2)

SERVICE KIT

SK208-157A

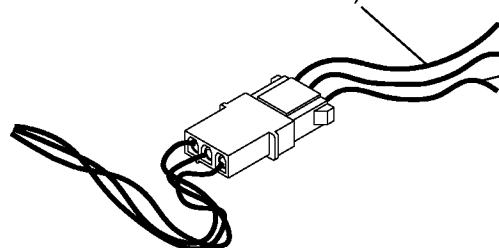
A39176

2671000HE34 RH
2671000HE36 LH

WIRE
(ROUTE WITH EXISTING
WIRE BUNDLE TO PLUG
ON DOOR POST WIRE BUNDLE)

2671000HE33 RH
2671000HE35 LH

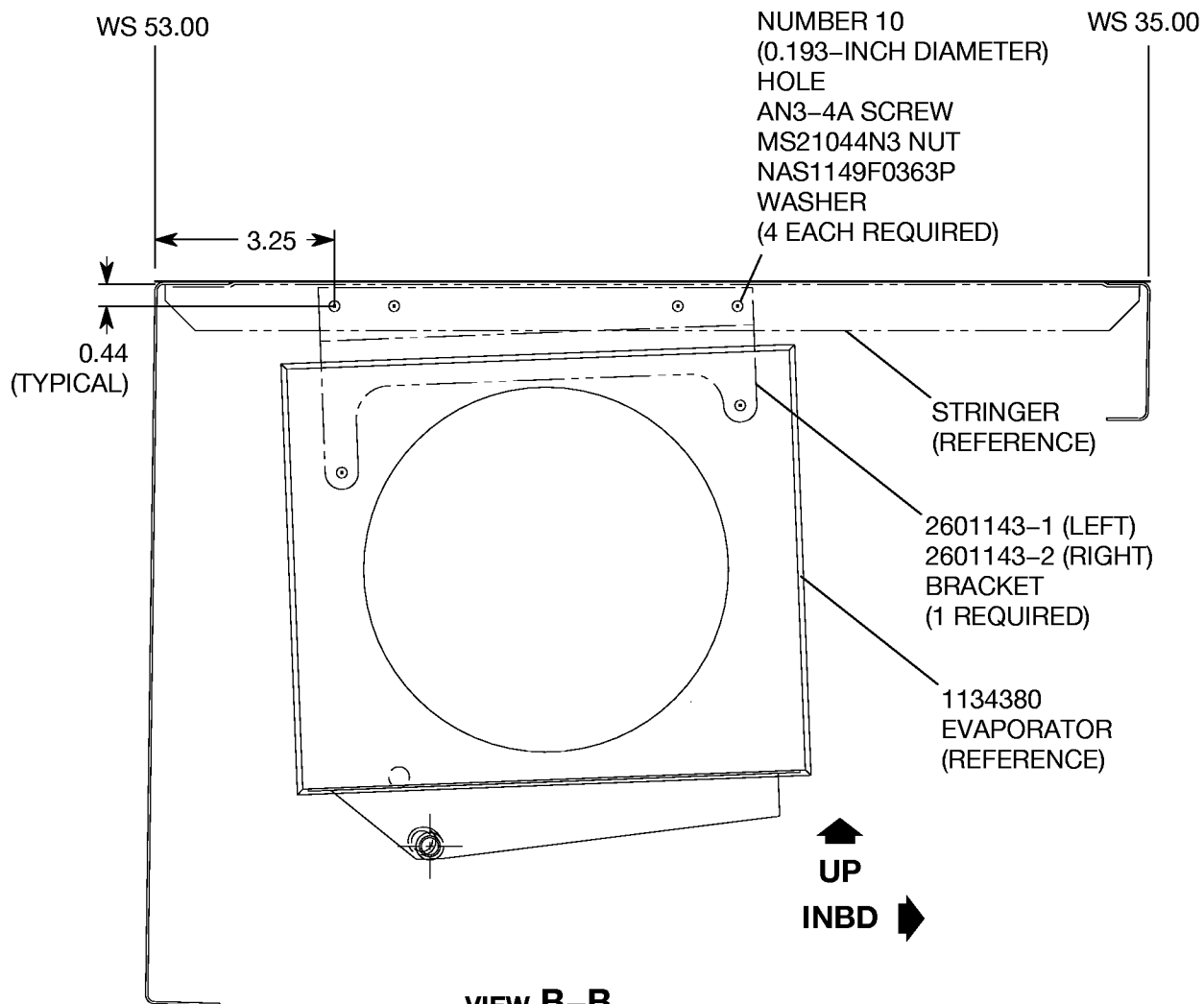
WIRE
(ROUTE WITH EXISTING
WIRE BUNDLE TO PLUG
ON DOOR POST WIRE BUNDLE)



2671000HE46 RH
2671000HE47 LH

WIRE
(ROUTE WITH EXISTING
WIRE BUNDLE TO PLUG
ON DOOR POST WIRE BUNDLE)

DETAIL B



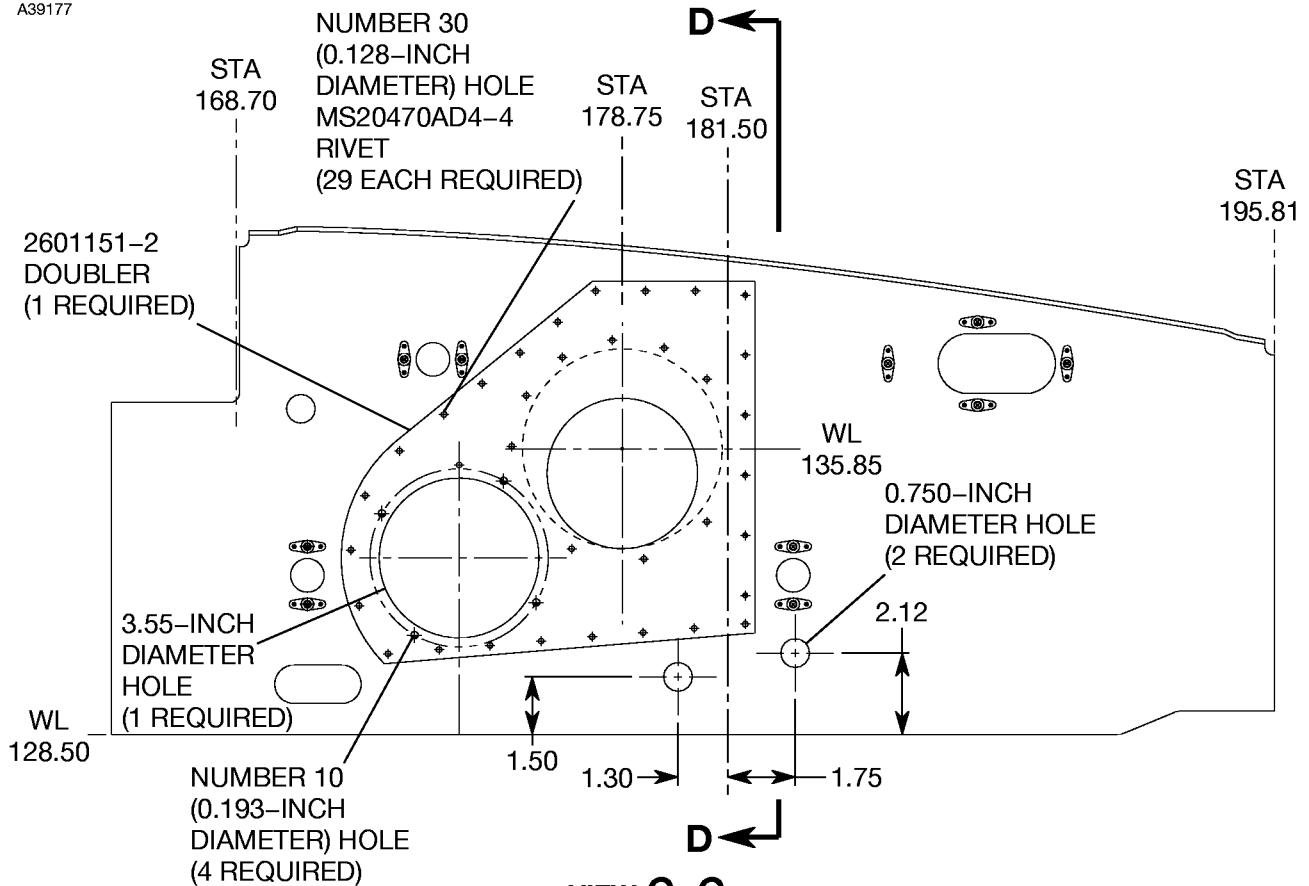
VIEW B-B

Figure 3. Wing Evaporator Installation (Sheet 3)

2615T003

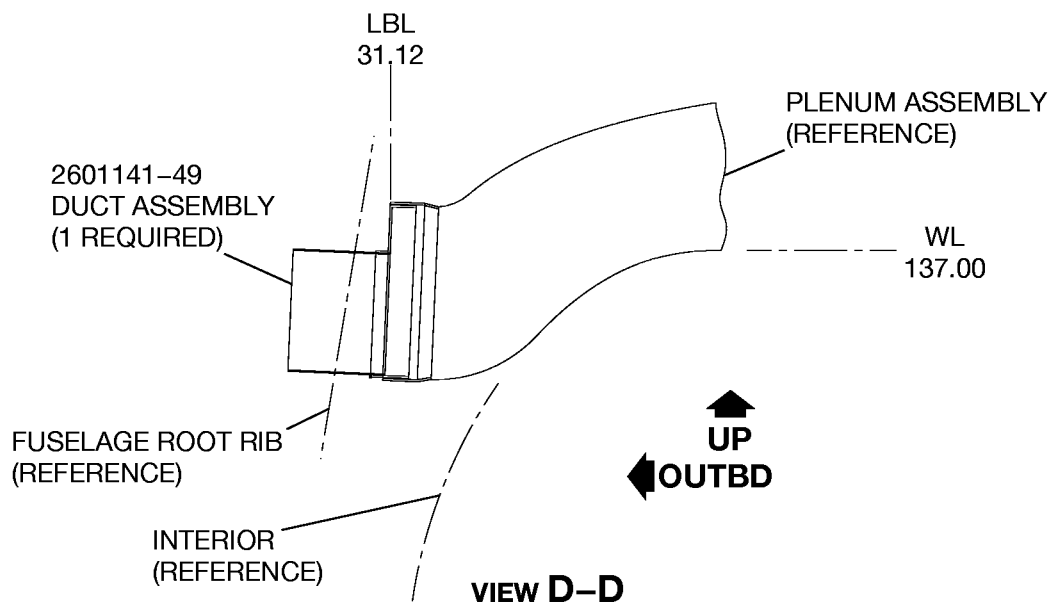
SK208-157A

A39177



VIEW C-C

VIEW LOOKING INBOARD AT
LEFT FUSELAGE WING ROOT RIB
RIGHT SIDE OPPOSITE



VIEW D-D

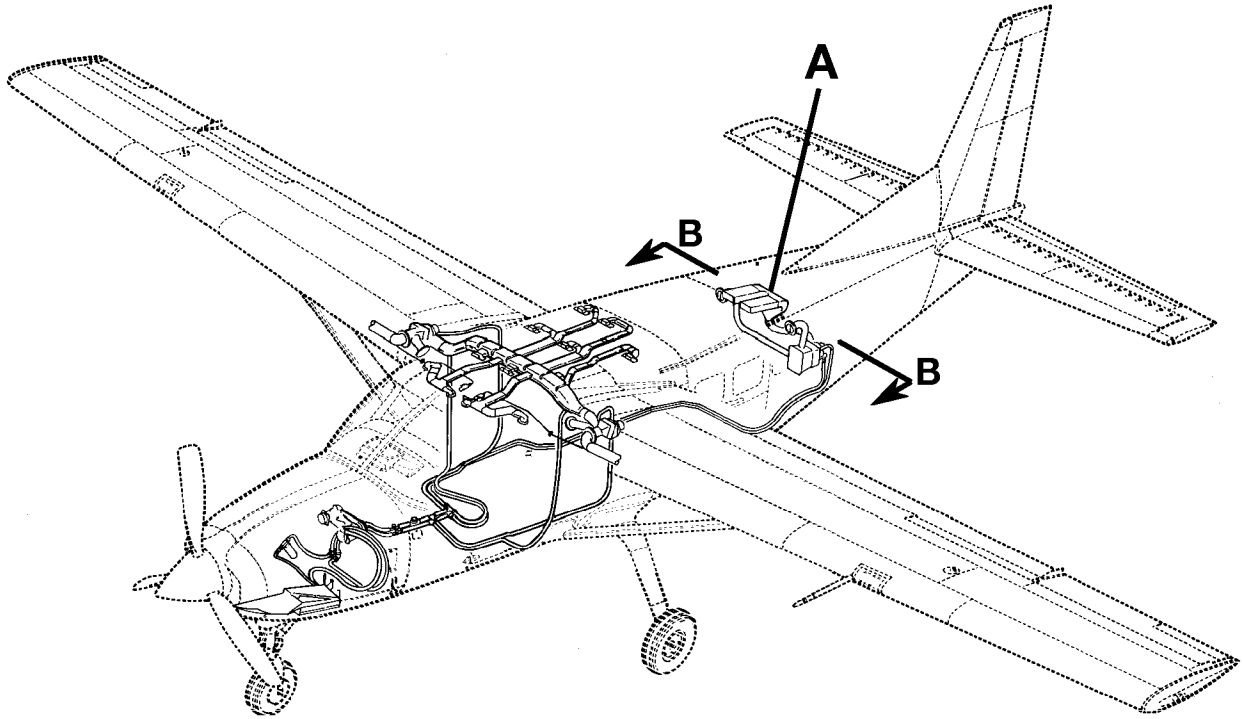
2690T013
2615T003

Figure 3. Wing Evaporator Installation (Sheet 4)

SERVICE KIT

SK208-157A

A39178



2614T2036

Figure 4. Aft Evaporator Installation (Sheet 1)

SERVICE KIT

SK208-157A

A39179

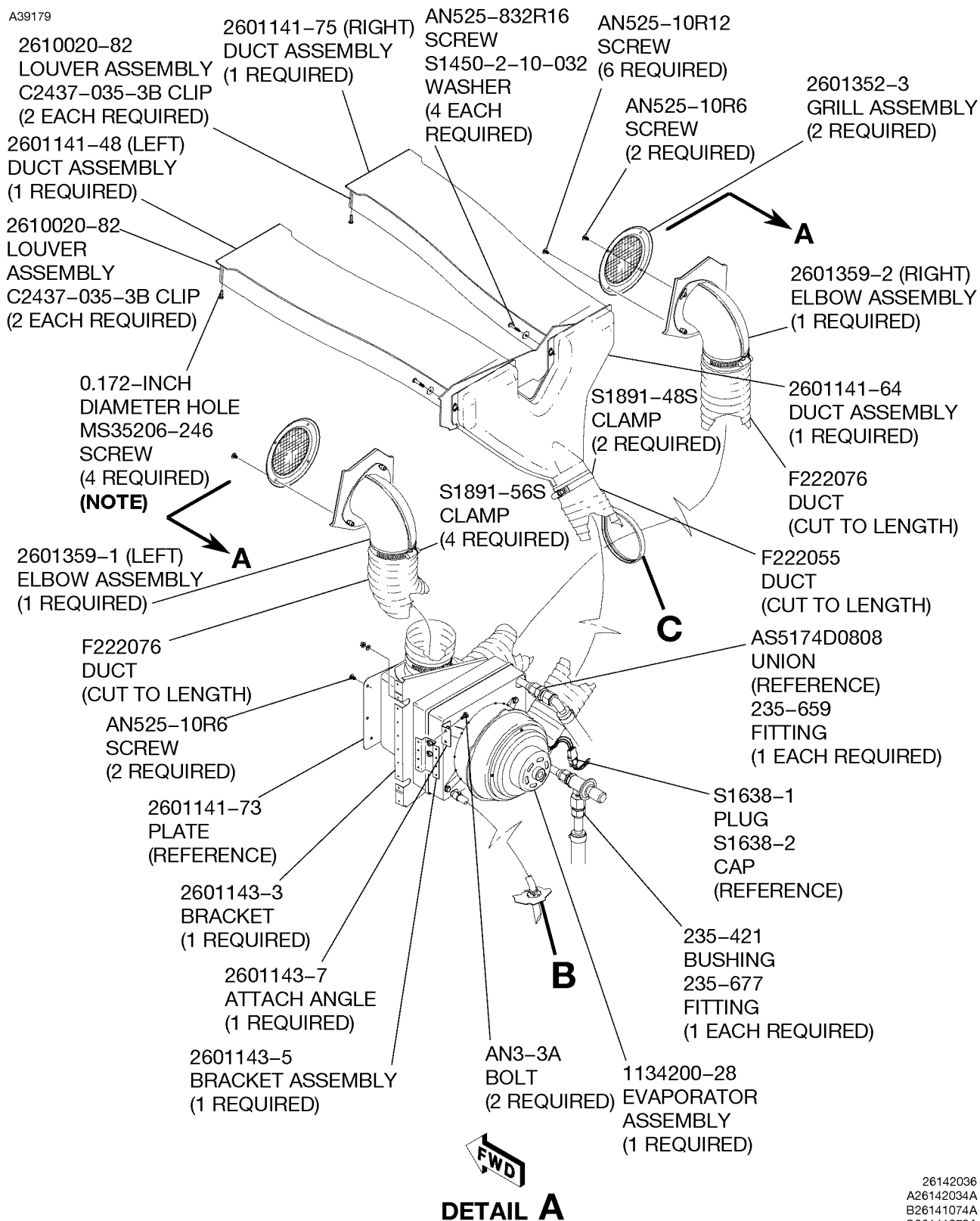
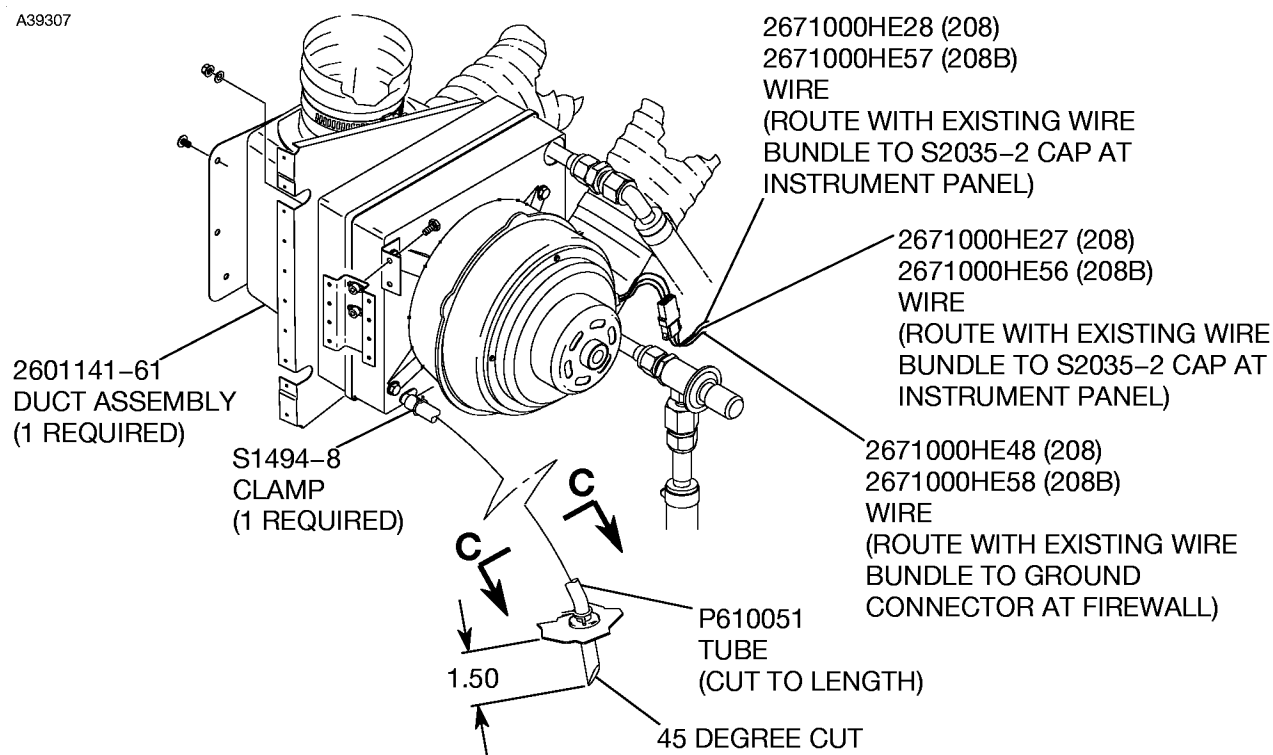


Figure 4. Aft Evaporator Installation (Sheet 2)

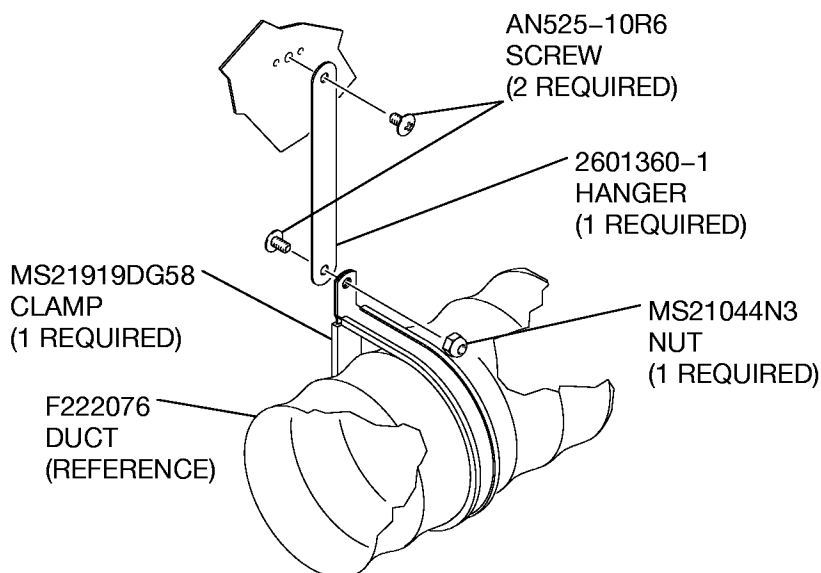
SERVICE KIT

SK208-157A

A39307



DETAIL B



DETAIL C

NOTE: ALL DIMENSIONS SHOWN
ARE IN INCHES.

Figure 4. Aft Evaporator Installation (Sheet 3)

B2614T1084
C2614T1098

SERVICE KIT

SK208-157A

A39308

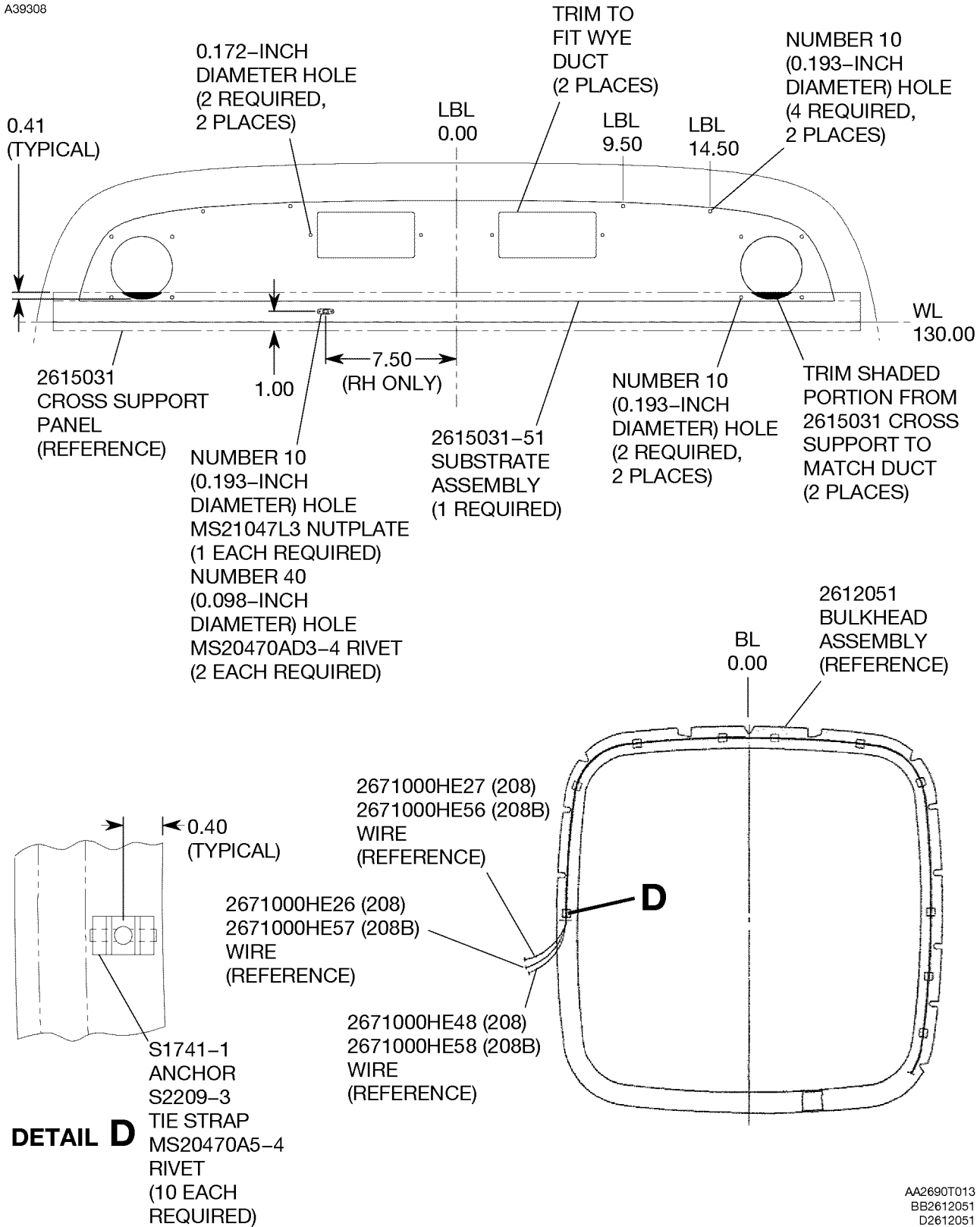


Figure 4. Aft Evaporator Installation (Sheet 4)

SERVICE KIT

SK208-157A

A39929

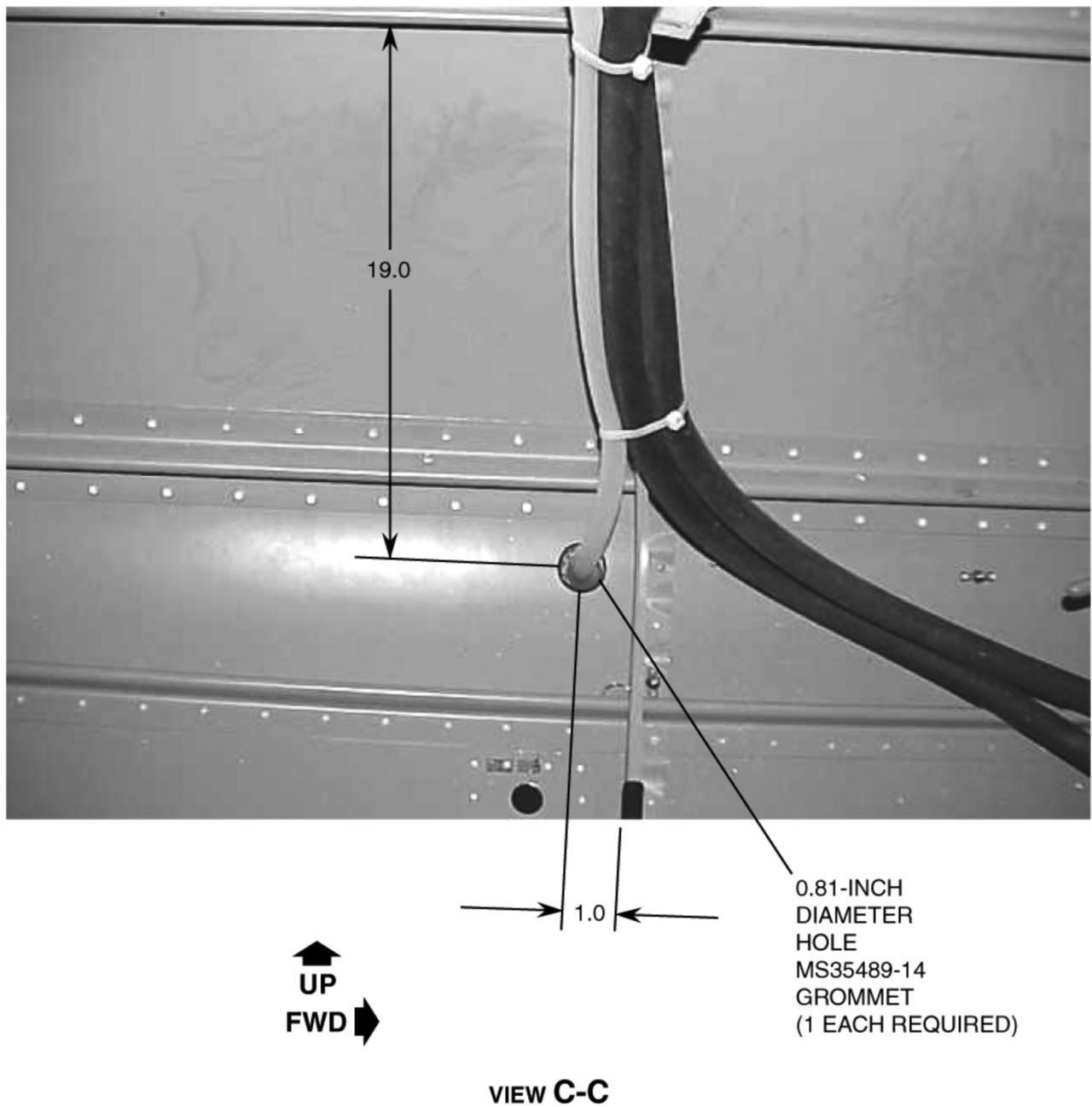
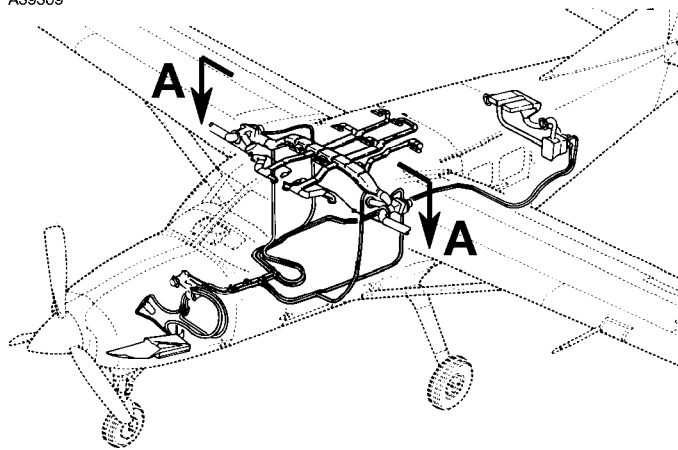


Figure 4. Aft Evaporator Installation (Sheet 5)

SERVICE KIT

SK208-157A

A39309



2613436
OVERHEAD
CONSOLE
(REFERENCE)

NUMBER 30
(0.128-INCH
DIAMETER) HOLE
NAS1097AD4-4
RIVET
(8 EACH
REQUIRED)

2613405-9
BRACKET
ASSEMBLY (LEFT)
(1 REQUIRED)
2613405-10
BRACKET
ASSEMBLY (RIGHT)
(1 REQUIRED)

RBL
10.72

2613406-4
COVER ASSEMBLY
2613406-5
TRIM
(1 EACH
REQUIRED)

LBL
10.72

HEADLINER
(REFERENCE)

MS35206-247
SCREW
(4 REQUIRED)

AV467401
AIR VALVE
(1 REQUIRED)

VIEW B-B
RIGHT SIDE SHOWN
LEFT SIDE OPPOSITE

9910588-10
DUCT (208)
(2 REQUIRED)
9910588-15
DUCT (208B)
(2 REQUIRED)

MS3367-2-9
TIE STRAP
(6 REQUIRED)

VIEW A-A

A2614T1083B

Figure 5. Air Outlet Installation (Sheet 1)

SERVICE KIT

SK208-157A

A39310

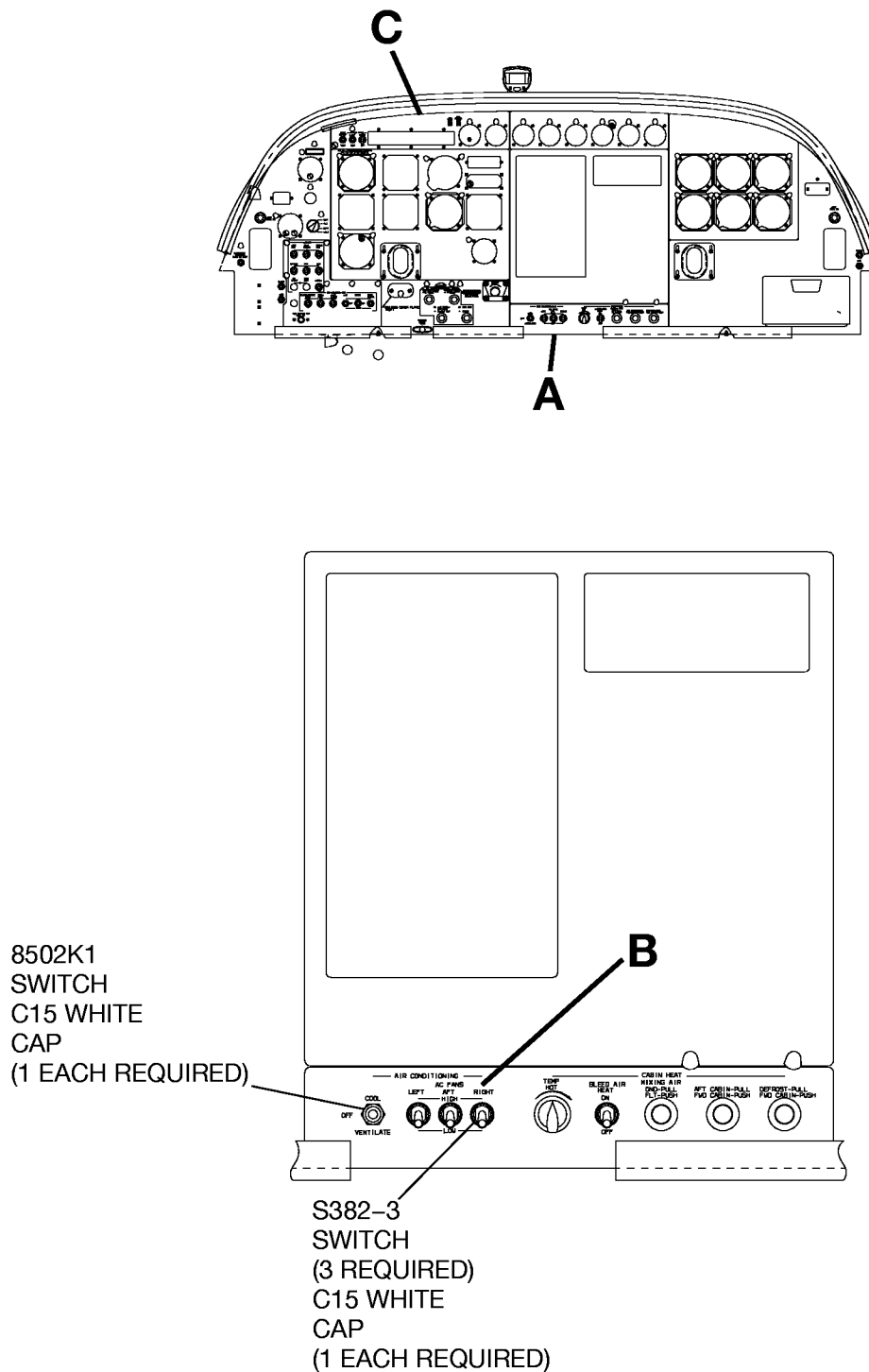


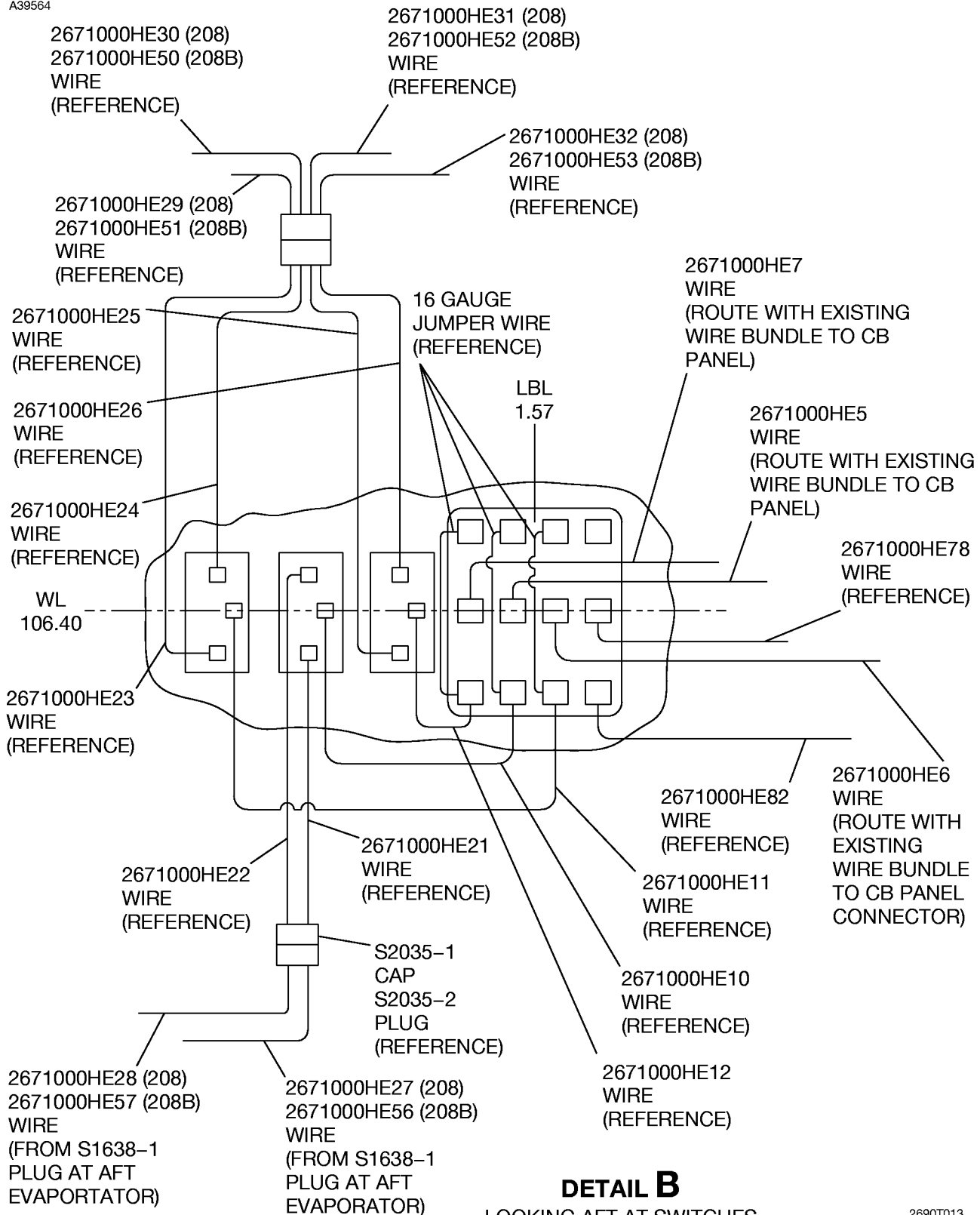
Figure 6. Instrument Panel Switch and Placard Installation (Sheet 1)

2690T013

SERVICE KIT

SK208-157A

A39564



2690T013

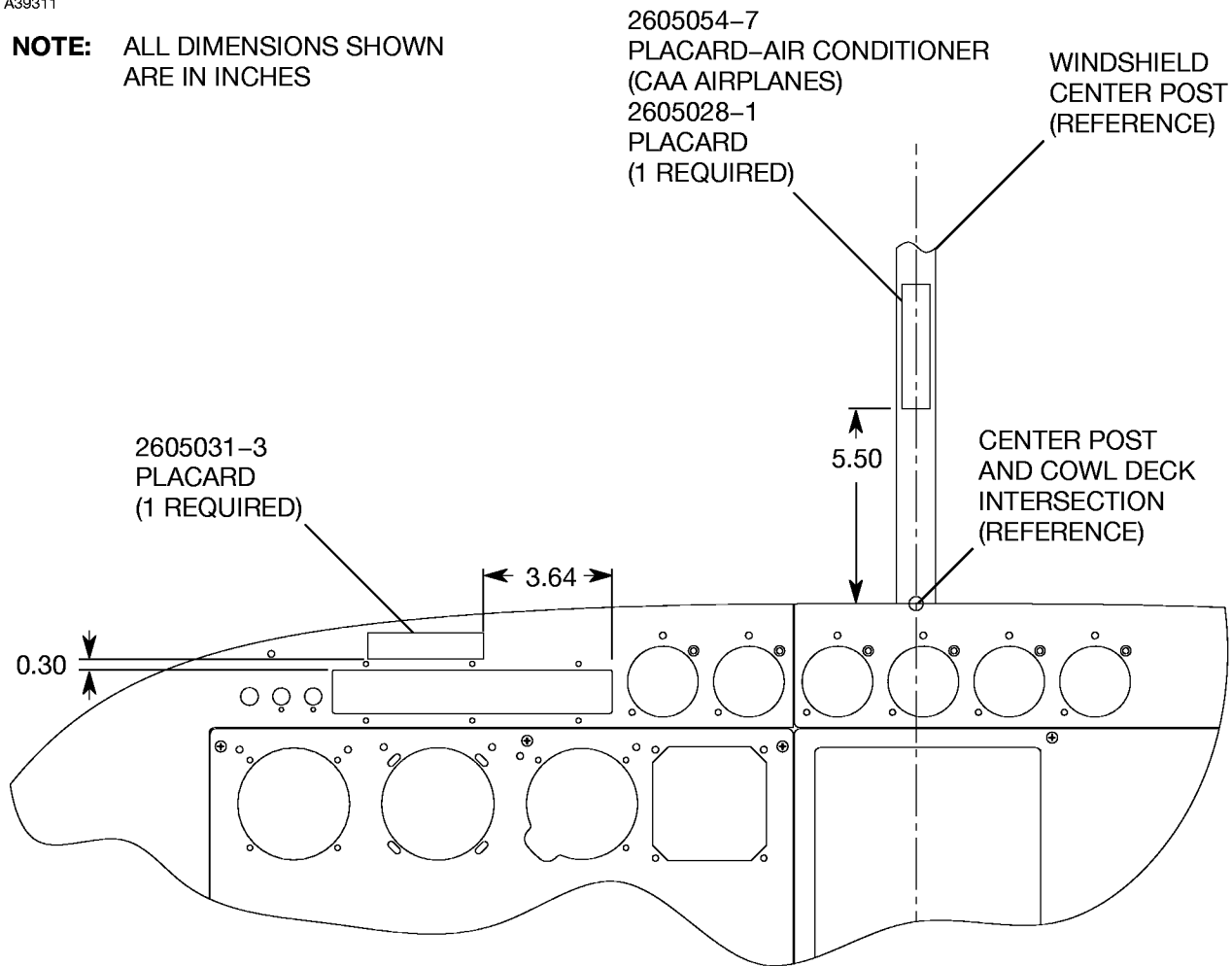
Figure 6. Instrument Panel Switch and Placard Installation (Sheet 2)

SERVICE KIT

SK208-157A

A39311

NOTE: ALL DIMENSIONS SHOWN
ARE IN INCHES



DETAIL C

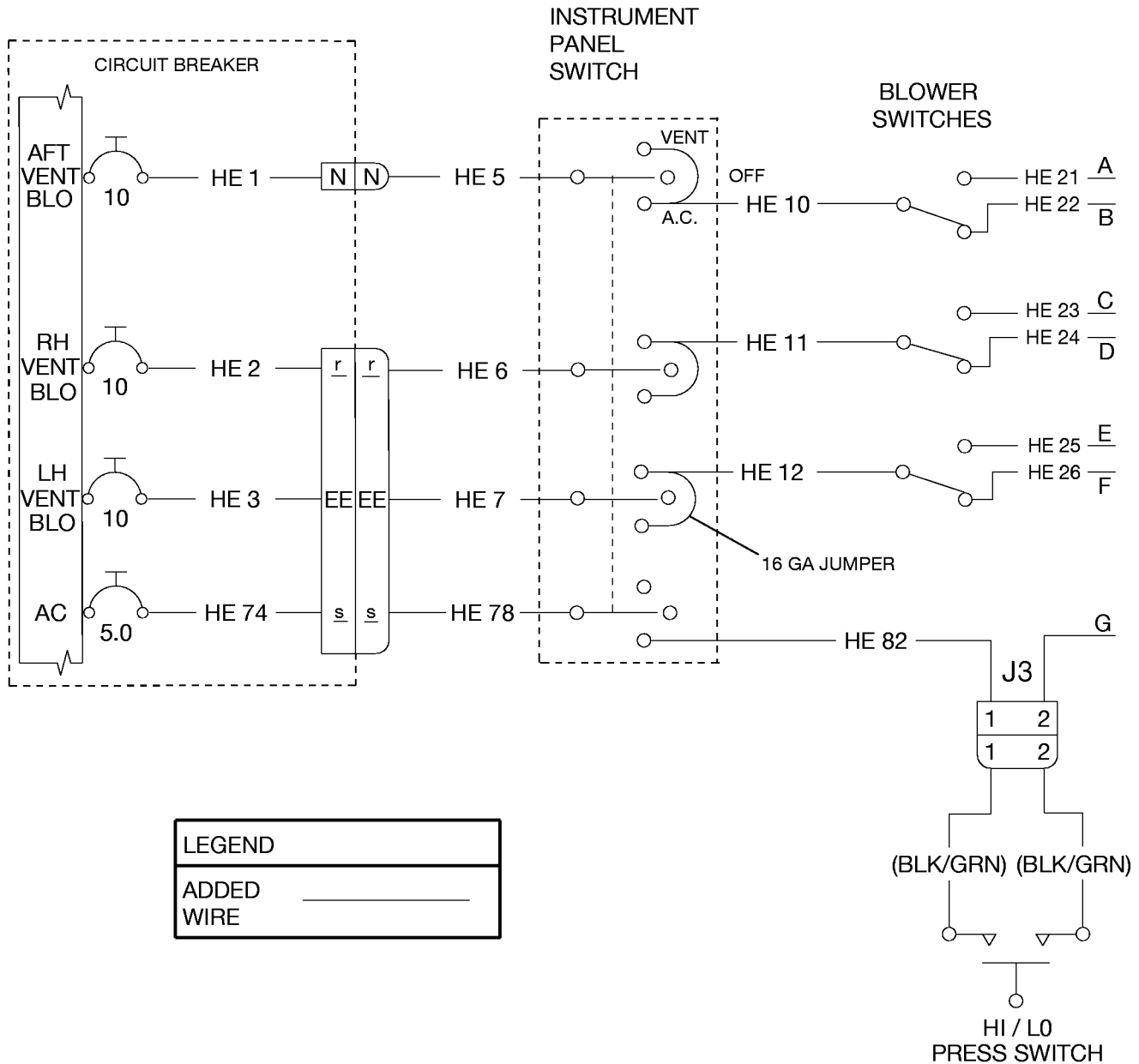
2690T013

Figure 6. Instrument Panel Switch and Placard Installation (Sheet 3)

SERVICE KIT

SK208-157A

A39312



APPLIES TO 208

2671T000

Figure 7. Wiring Installation (Sheet 1)

SERVICE KIT

SK208-157A

A39313

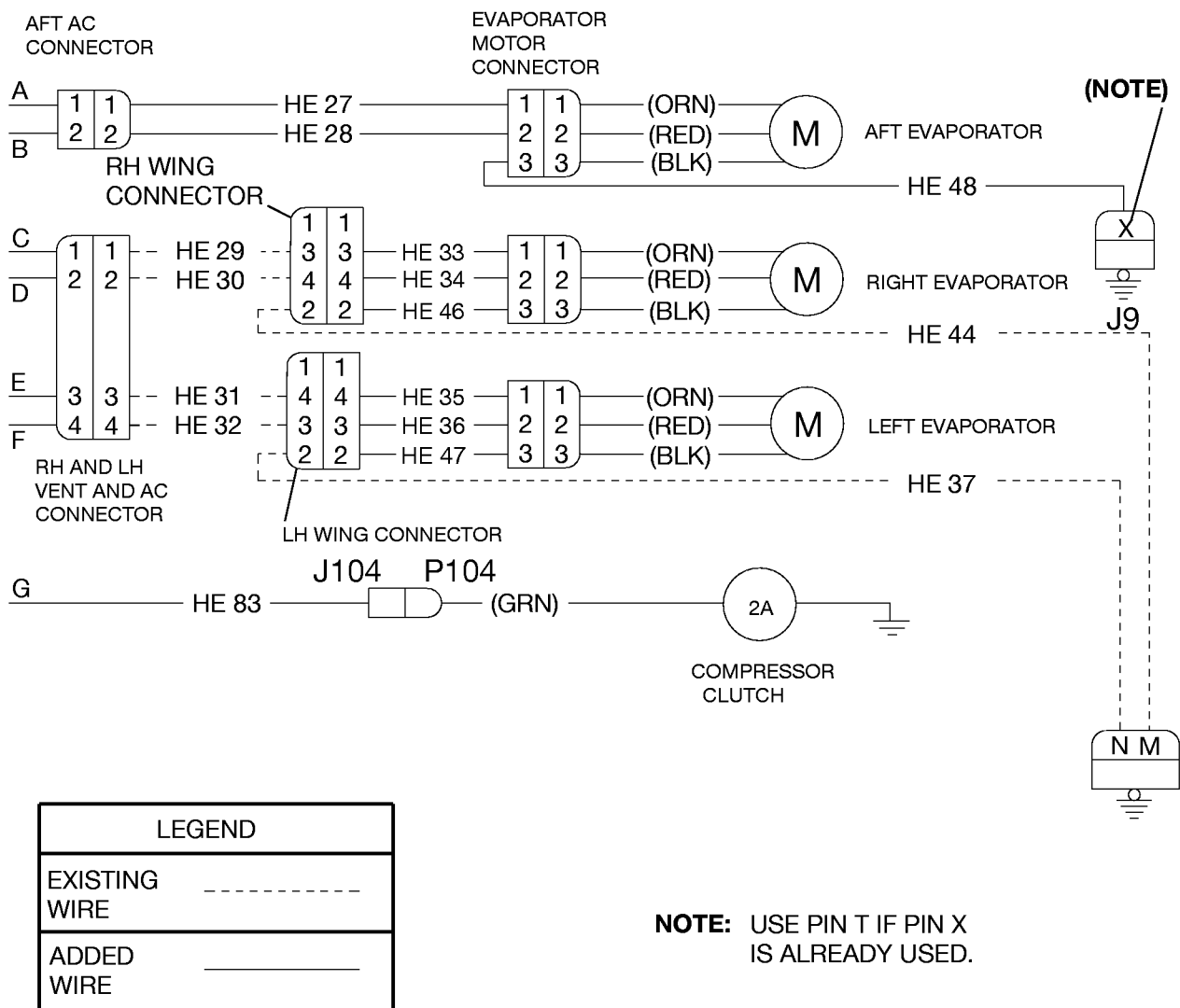


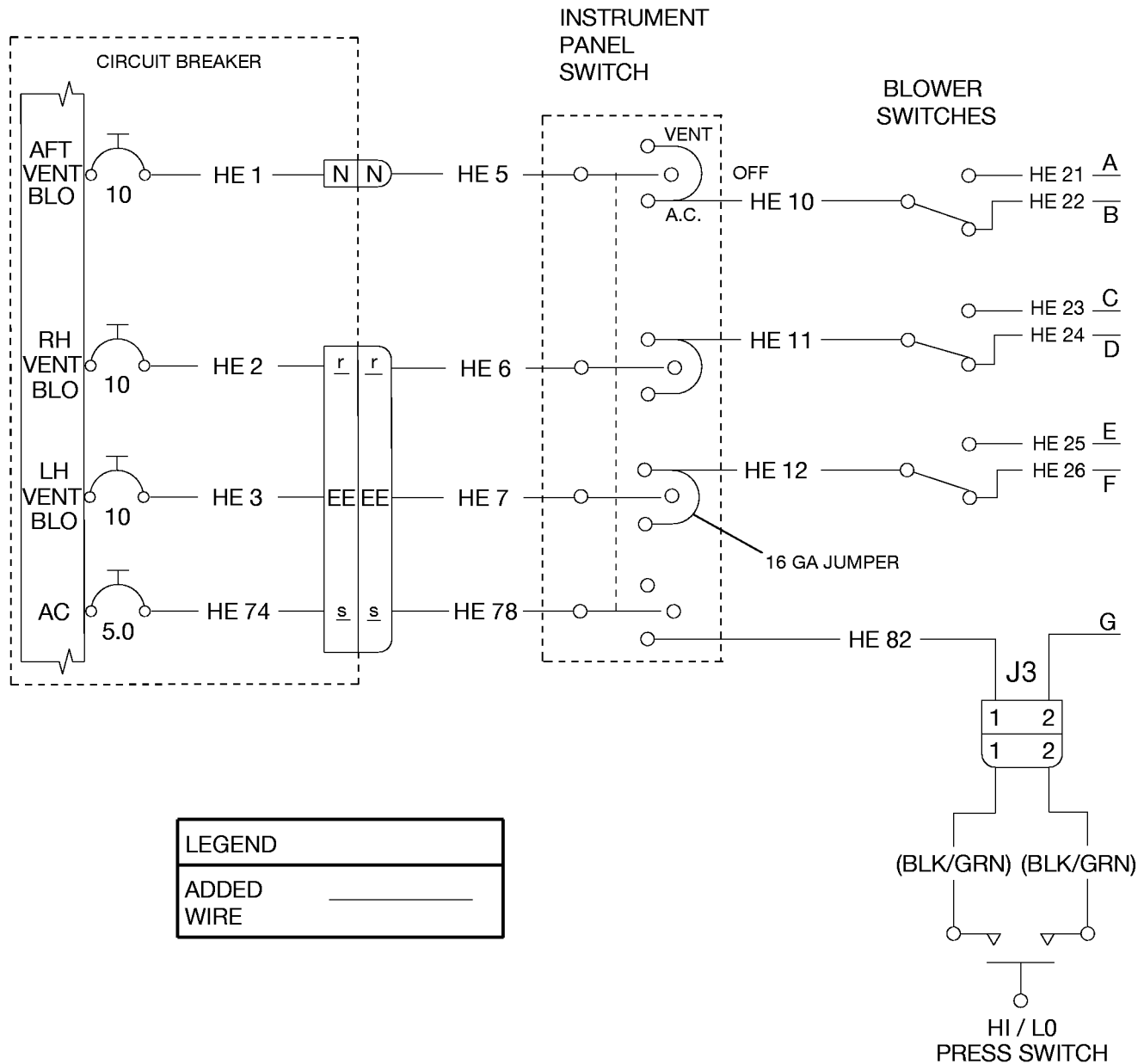
Figure 7. Wiring Installation (Sheet 2)

2671T000

SERVICE KIT

SK208-157A

A39314



APPLIES TO 208B

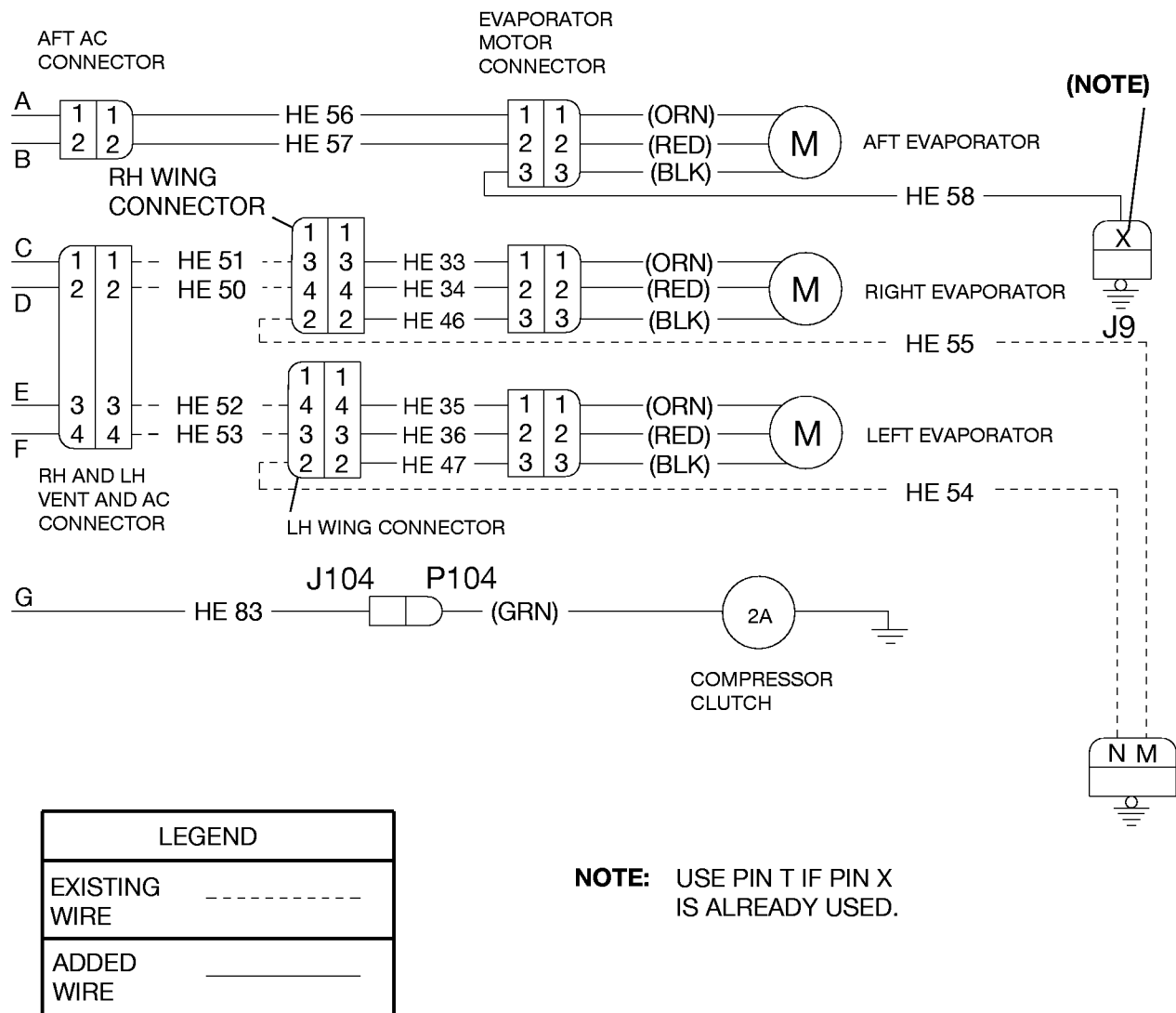
2671T000

Figure 7. Wiring Installation (Sheet 3)

SERVICE KIT

SK208-157A

A39180



APPLIES TO 208B

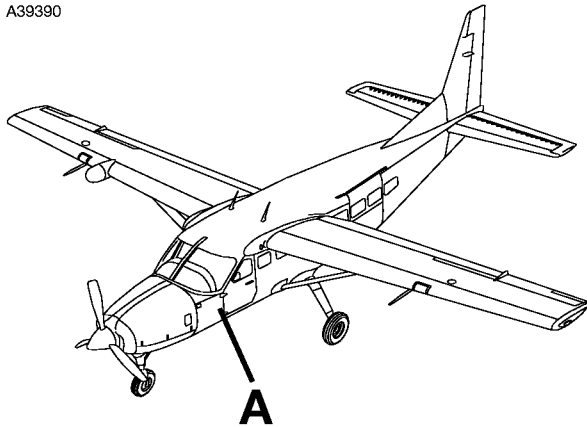
Figure 7. Wiring Installation (Sheet 4)

2671T000

SERVICE KIT

SK208-157A

A39390



2613181
CIRCUIT
BREAKER
PANEL
(REFERENCE)

S1232-510
CIRCUIT BREAKER
(2 REQUIRED)

S1232-505
CIRCUIT
BREAKER
(1 REQUIRED)

2671000HE74
WIRE
(REFERENCE)

2670004-1
BUS BAR
(2 IF REQUIRED)
(NOTE)

S1232-510
CIRCUIT BREAKER
(1 REQUIRED)

200276-2
CONNECTOR
(REFERENCE)

2671000HE78
WIRE
(FROM 8502K1
SWITCH AT
INSTRUMENT
PANEL)
(REFERENCE)

DETAIL A

NOTE: SOME AIRPLANES MAY NOT HAVE
FULL LENGTH BUS BARS INSTALLED.
INSTALL THEM AS REQUIRED.

2610T7005
A2601T469

Figure 8. Circuit Breaker Installation (Sheet 1)