Instruction Sheet

IS-19900

ELECTRIC FAN DRIVE COOLING SYSTEM CONVERSION WITH BOSCH ALTERNATOR - H3 SERIES US10 COOLING SYSTEM

REVISION : THIS DOCUMENT SUPERSEDES PREVIOUS VERSION. NONE

MATERIAL

Kit **IS19900** "H3 US10 electric fan drive retrofit with Bosch alternator" contains the following parts:

Part No.	DESCRIPTION		Qty
050195	FAN SUPPORT PANEL	A1	1
050200	UPPER SHROUD TRANSITION	A6	1
050201	LEFT SHROUD TRANSITION	A7	1
050202	RIGHT SHROUD TRANSITION	A8	1
050203	LOWER SHROUD TRANSITION	A9	1
050204	UPPER LEFT SHROUD PANEL H3 US10+	A11	1
050229	ELECTRICAL CONNECTOR COVER	A15	1
050206	UPPER RIGHT SHROUD PANEL H3 US10+	A12	1
050213	LOWER SHROUD PANEL H3 US10+	A14	1
050208	LH SIDE SHROUD PANEL H3 US10+	A10	1
050255	RH SIDE SHROUD PANEL & WURTH BOX SUPPORT H3 US10+	A13	1

A10	A7 A7 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1		
012349	IDLER PULLEY	Mechanical	1
012941	PULLEY, DRIVE	Mechanical	1
012942	L.H. ENGINE MOUNT	Mechanical	1
012943	SUPPORT, IDLER + TENSIONER	Mechanical	1
453076	CAP, DUST	Mechanical	1
506026	1x BELT, DRIVE POLY V 10PK1695 1x BELT, DRIVE POLY V 10PK1695 (for your spare kit)	Mechanical	2
510991	TENSIONER, BELT	Mechanical	1

564593	BOSCH HD10PLBH ALTERNATOR 28V-150AMP J180	Mechanical	1
0600265	PULLEY, ALTERNATOR 10PK, 73 DOB	Mechanical	1
050286	CAC INLET PIPE H3 US10+	Pipe	1
050406	CAC OUTLET PIPE H3 US10+	Pipe	1
050414	RADIATOR INLET COOLANT PIPE H3 US10+	Pipe	1
050288	RADIATOR OUTLET PIPE H3 US10+	Pipe	1
501027	FITTING, SAE 45º #4FL-Mx1/4NPT-M BR	Fitting	1
501308	ADAPTER / PIPE FITTING / 1/4NPT-Fx1/4NPT-M BR	Fitting	1
501329	ELBOW 45º / PIPE FITTING / 1/4NPT-Mx1/4NPT-F BR	Fitting	1
501332	ELBOW 90º / PIPE FITTING / 1/4NPT-Mx1/4NPT-F BR	Fitting	1
052366	HOSE 3/8 ID X 61 in LONG	hose	1
20550690	HOSE, FLEXIBLE - CHARGE AIR Location: turbo outlet & engine intake	Hose	2
531469	HOSE, FLEXIBLE - CHARGE AIR Location: CAC outlet	Hose	1

531471	HOSE, FLEXIBLE - CHARGE AIR Location: CAC inlet	Hose 1	1
052889	HOSE, SILICONE 2 1/2" ID Location : coolant pipes	Hose 1	1
053617	HOSE, SILICONE Location : coolant pipes	Hose	3
21490616	CLAMPS, SPRING LOAD - CHARGE AIR Location: CAC outlet & inlet	Clamps E	3
21490630	CLAMP, SPRING LOAD - CHARGE AIR Location: turbo outlet & engine intake	Clamps 4	1
992089	HOSE CLAMP CT CAILLAU 60mm-80mm Location : coolant pipes	Clamps 1	16
992081	HOSE CLAMP CT CAILLAU 12-22 Location : coolant filter	Clamps	1
21185073	MOUNT, ANTI-VIBRATION	Support /bracket	1
050305	BRACKET, RADIATOR INLET PIPE	Support /bracket	1
050265	COOLANT FILTER SUPPORT H3	Support /bracket	1

050266	ALTERNATOR BATTERY CABLE SUPPORT	Support /bracket	1
050303	ALTERNATOR TELLTALE BRACKET	Support /bracket	1
050214	UPPER RADIATOR SUPPORT H3	Support /bracket	1
060102	ALTERNATOR BRACKET, LOWER	Support /bracket	1
010060	DECAL, BELT ROUTING	Misc.	1
069205	DECAL, WARNING	Misc.	2
391028	INSERT, ALTERNATOR TELLTALE	Misc.	1
506025	RUBBER EXTRUSION, BLACK	Misc.	8 ft
060297	STUD ADAPTER, ALTERNATOR M/F-M8	Misc.	1
380360	GROUND STUD	Misc.	1
506040	TAPE, ADHESIVE AD1 EPDM CC GY 5/16"X3/4"X25'	Misc.	1
562113	TELLTALE LIGHT MODULE	Misc.	1
21937327	FILTER, COOLANT	Misc.	1

012921	GROUND STUD	Electrical	1
561610	CONNECTOR HOUSING, PED WEATHER-PACK 4 WIRES	Electrical	1
561783	CAVITY PLUG, CONNECTOR	Electrical	4
22722850	I/O-B MULTIPLEX MODULE	Electrical	1
23499009_EFD	MCM, PROGRAMMED	Electrical	1
563593	CONNECTOR, WITH END-OF-LINE 120 OHMS RESISTOR	Electrical	2
563750	FUSE HOLDER, AMG TYPE	Electrical	1
564520	FUSE, AMG 300A	Electrical	1
564612	CIRCUIT BREAKER BOX	Electrical	1
565191	FAN, ELECTRIC	Electrical	8
563533	HAND GUARD, FAN	Electrical	8
068820	HARNESS, FAN DRIVE	Harness	1

069246	GROUND CABLE, FAN DRIVE	Harness	1
069504	GROUND CABLE, LEFT ALTERNATOR	Harness	1
069511	CONTROL HARNESS, LEFT ALTERNATOR	Harness	1
23445869	MCM TO I/O-B INTERFACE HARNESS	Harness	1
23488790	FAN TO RJB INTERFACE HARNESS H3	Harness	1
23490553	VEHICLE INTERFACE HARNESS	Harness	1
23498450	MASTER RELAY TO 300A FUSE CABLE, 300mm	Harness	1
23498721	FAN DRIVE POWER CABLE, 4600mm	Harness	1
23498785	L.H. ALTERNATOR POWER CABLE, 4450mm	Harness	1
N37749	TIE, NYLON DOUBLE	hardware	15
504016	TIE, NYLON BLACK (LARGE)	hardware	58
504013	MOUNT, TIE HOLE 1/4"	hardware	25
504751	MOUNT, TIE SWIVEL	hardware	4
504750	MOUNT, TIE TREE	hardware	1
509490	MOUNT, TIE DOUBLE GRAY	hardware	15

509491	TIE, NYLON LARGE EXTRA STRONG 250 LBS	hardware	38
562679	MOUNT, SQUARE SELF-ADHESIVE BLACK	hardware	4
500449	WASHER, FLAT SS .687X1.5X0.078 (M16,5/8)	hardware	1
500482	WASHER, SPLIT LOCK Z050 .506X.873X.125 (M12,1/2)	hardware	1
500942	WASHER, SPLIT LOCK N500 8.1X14.8X2 (M8,5/16,#18)	hardware	4
502570	WASHER, SPLIT LOCK SS 6.1X11.8X1.6 (M6,#12)	hardware	62
502573	WASHER FL SS 6.4 X 12.0 X 1.6 (M6,1/4)	hardware	1
507657	WASHER, BANJO FITTING M14	hardware	8
5001341	WASHER, FLAT SS 8.4X17X1.6 (M8,5/16)	hardware	6
5001737	WASHER, SPLIT LOCK N500 10.2X18.1X2.2 (M10,3/8)	hardware	4
5001751	WASHER, FLAT N500 10.5X26X2 (M10,3/8)	hardware	10
5001833	WASHER, BELLEVILLE SPR SS 301 6.65X17.4X1.27(M6,1/4	hardware	32
5001868	WASHER, BELLEVILLE SS 8.4X18X2 (M8,5/16)	hardware	4
5001935	WASHER, FLAT SS 10.5X18X1.6 (M10,3/8)	hardware	1
5002008	WASHER, FLAT HARD N500 13X35X5 (M12,1/2)	hardware	1
500998	NUT HEX BR 1/2-13	hardware	1
502837	NUT HEXF STO N500 M8-1.25	hardware	2
502859	NUT HEX NYRT NX500 M10-1.5 G10	hardware	4
5001182	NUT HEX NYRT SS M6-1	hardware	1
5001665	NUT HEX NYRT NX500 M22-2.5	hardware	1
5001728	NUT HEXF STO N500 M12 CL10	hardware	1
5001761	NUT HEXF NYRT NX500 M12-1.75 G8	hardware	2
5001930	NUT HEXF NYRT NX500 M10-1.50 PC 10	hardware	2
5001983	NUT HEX NYRT NSS M8-1.25X9.5	hardware	3
21429955	NUT, FLANGED	hardware	1

500119	SCREW, CAP HEX SS NSS M8X1.25X20	hardware	4
500658	SCREW TC PAN PH Z050 10-24X3/4	hardware	11
502719	SCREW, CAP HEX SS NSS M10X20 G8.8	hardware	1
502686	SCREW, CAP HEX SS NSS M6X30	hardware	33
502804	SCREW, CAP HEX N500 M10-1.5X25 G8.8	hardware	8
502848	SCREW TC HEX F N500 1/4-20X3/	hardware	22
502950	SCREW SHR HEXF N500 12.9X160LG CL10.9	hardware	1
5001296	SCREW, CAP HEXFN500 M12-1.75 X 80 CL10.9 PT	hardware	6
5001643	SCREW, CAP HEXF G500 M8-1.25X25 G8.8 PT	hardware	3
5001697	SCREW, CAP HEX SS NSS M6X16	hardware	62
5001738	SCREW, CAP HEX N500 M8X30 G8.8 FT	hardware	4
5001745	SCREW, CAP HEX N500 M8-1.25X25 G8.8	hardware	2
5001786	SCREW, CAP HEXF AD N500 M12-1.75X30 G8.8	hardware	1
5001799	SCREW, CAP HEXF N500 M10-1.5 X 70 G10.9	hardware	4
5001800	SCREW, CAP HEXF N500 M10X45 G10.9	hardware	1
5001940	SCREW CAP HEX N500 M12X1.75X140	hardware	2
		hardware	41
504379	RIVET, POP DOME SS OE 3/16X1/4		
504610	RIVET MGL PRDG SS 1/4X5/8	hardware	14
IS-19900	INSTRUCTION SHEET		1
FI-19900	FEUILLE D'INSTRUCTION		1

PREVOST

PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button.

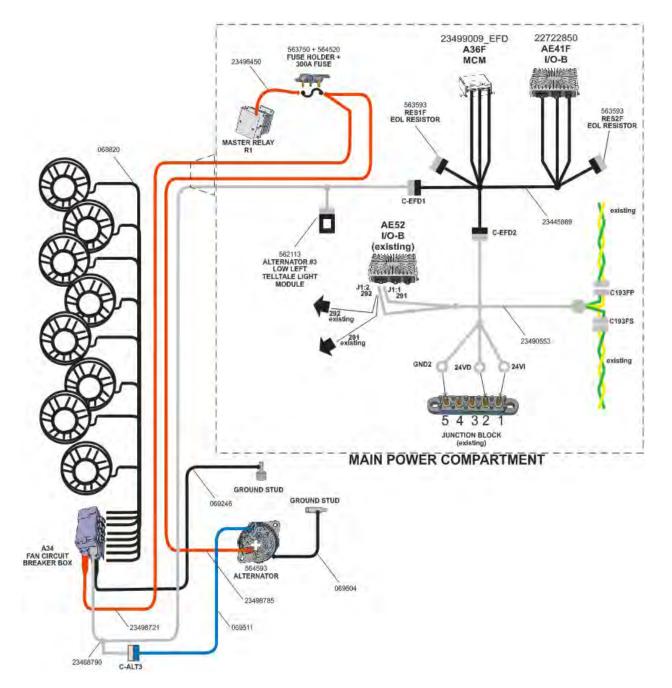
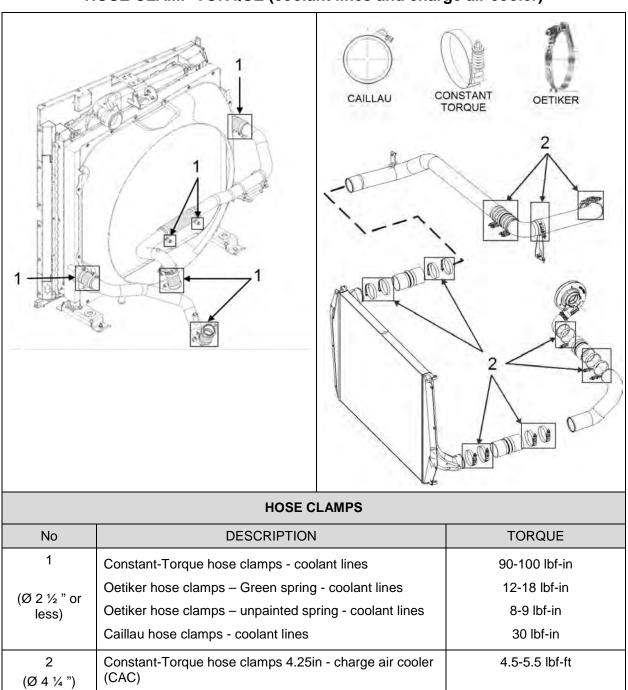
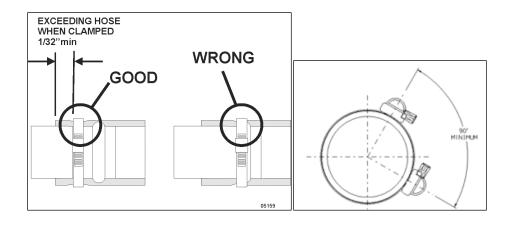


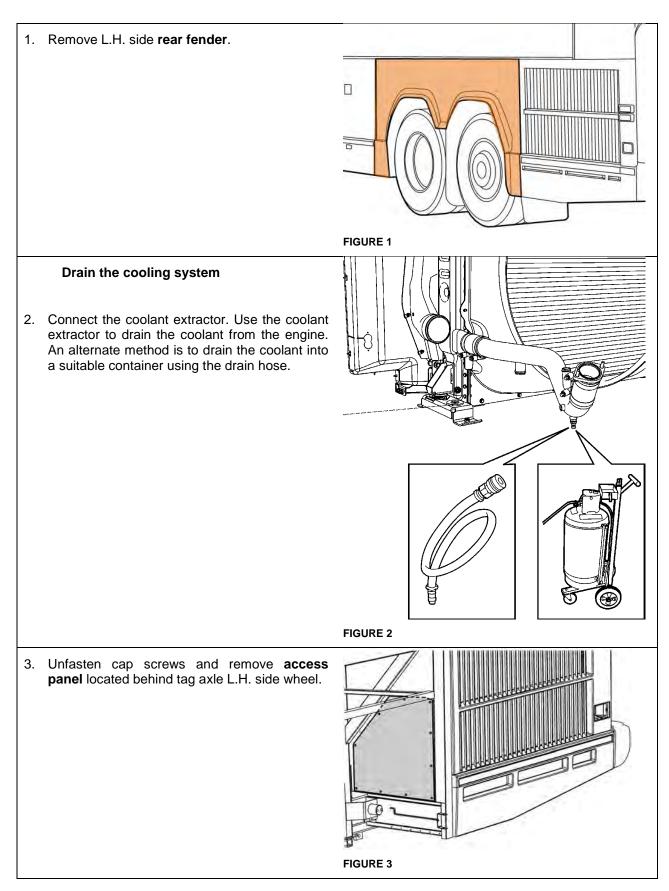
DIAGRAM OF ELECTRICAL CONNECTIONS

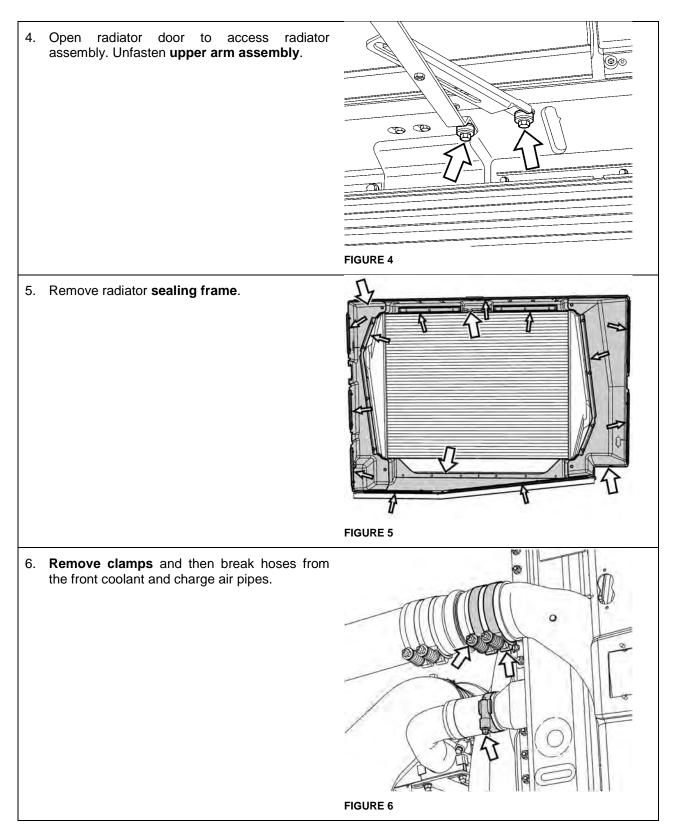
PREVOST

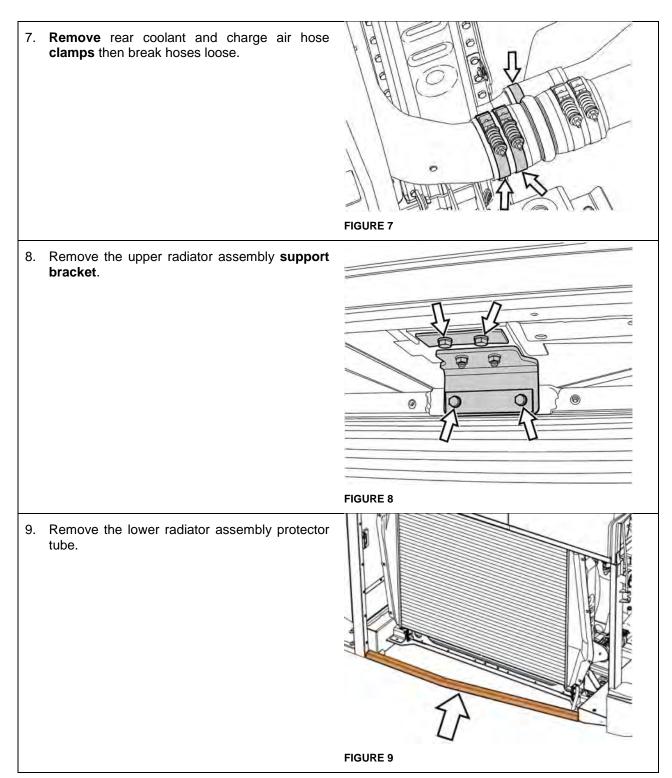


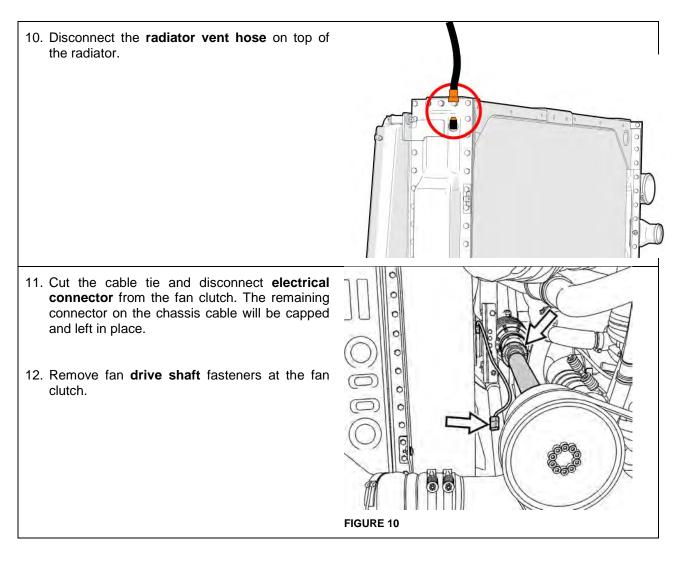


PREVOST









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- 13. Open the secondary lock of **connector #561610**. Insert a **cavity plug #561783** in each of the four (4) cavities with the smallest end protruding as shown on the example at right. Close the secondary lock.
- 14. Cap the chassis fan clutch cable with this connector. Secure the connector on the inner wall above the radiator using:
 - 1x tree mount #504750
 - 1x nylon tie #504016



FIGURE 11

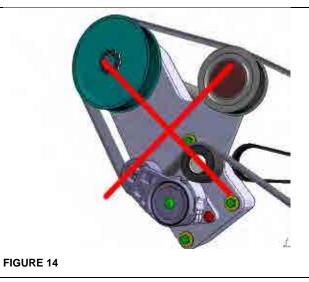


FIGURE 12

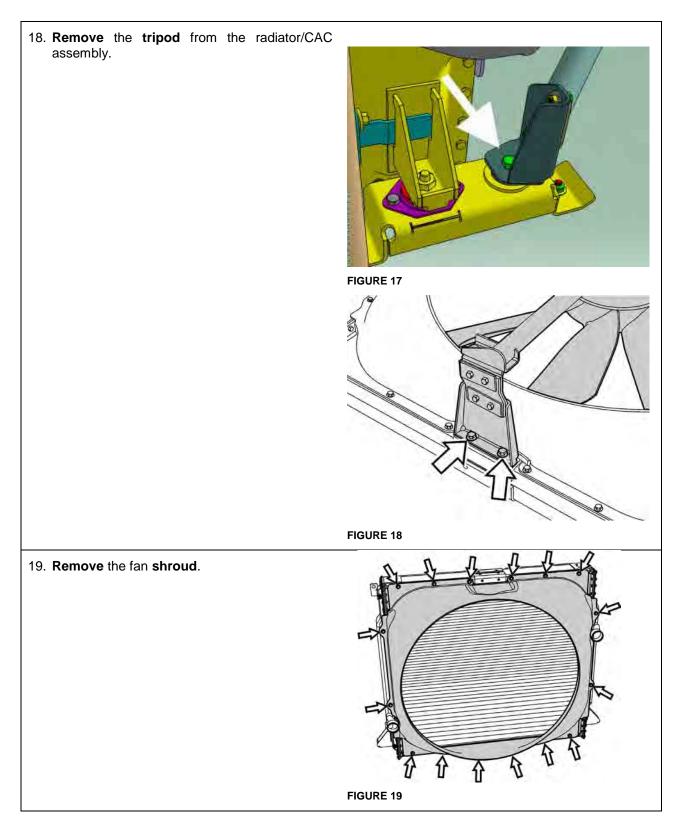


FIGURE 13

15. Remove the fan drive casting.



16. Unscrew all lower radiator assembly mounting fasteners (2 bolts on R.H. side, 2 bolts on L.H. side). **FIGURE 15** 17. Position a forklift under the radiator assembly that is capable of safely lifting the radiator. With assistance, slide radiator assembly out and onto the forklift. Transfer radiator assembly to a secure location. FIGURE 16



20. The new cooling pack arrangement requires being located **four inches** closer to the engine to give the needed clearance for the electric fans. For this reason, **rotate** both the radiator/CAC assembly **mounting support 180°** and reinstall.

BEFORE

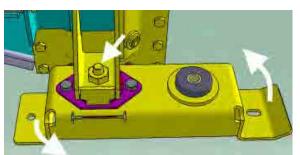


FIGURE 20: MOUNTING SUPPORT IN INITIAL POSITION



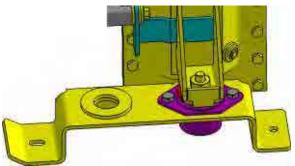
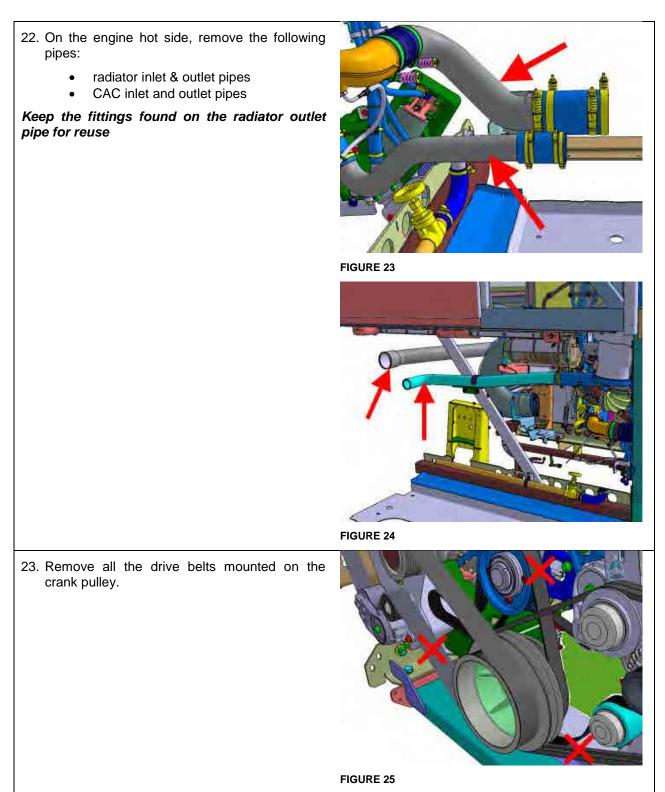


FIGURE 21: MOUNTING SUPPORT AFTER 180° ROTATION

FIGURE 22

21. Remove the **rear bumper** (undo three nuts and one attachment plate each side).



24. Remove the drive pulley. Discard the 6 bolts.



FIGURE 26

25. Remove the rust, clean and prepare the surface on the vibration damper as shown. Work the surface to achieve a smooth finish.



FIGURE 27



26. Properly support the engine as one of the engine support will be interchanged in the upcoming steps.



27. Remove the two (2) coolant hoses shown on the image. Keep the two (2) banjo fittings for later use.



BANJO FITTING

FIGURE 29

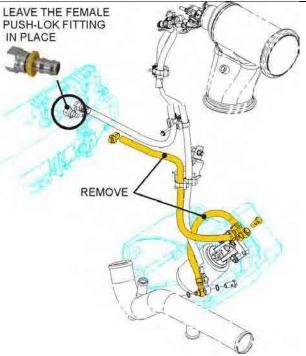


FIGURE 30

28. Remove the L.H. rear engine support (10 bolts). Keep the hardware for reinstallation.

Take note that the water pump belt idler/tensioner assembly will be reused as is. Do not take apart tensioner or idler.

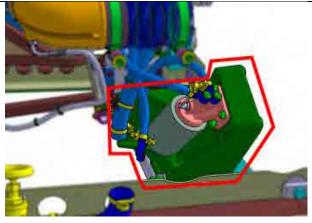
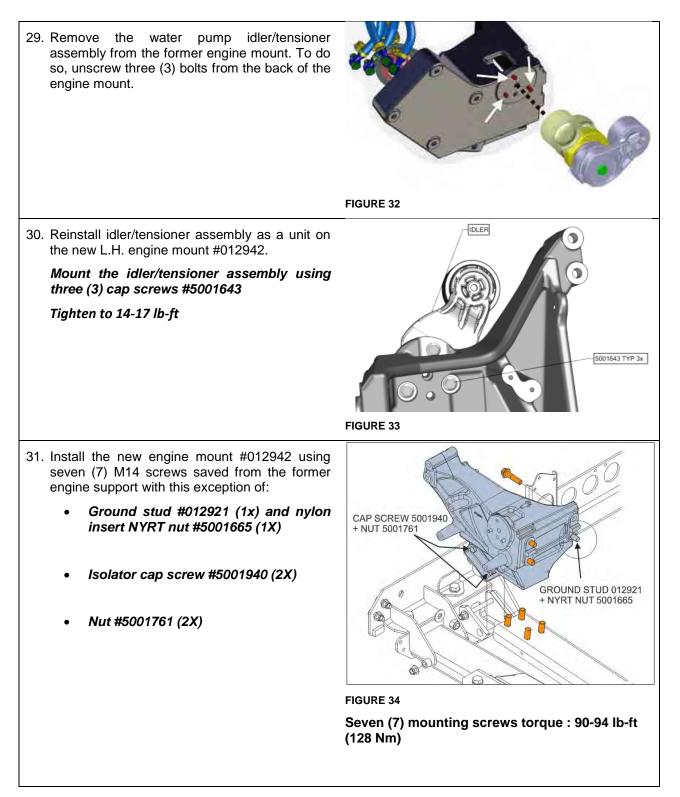
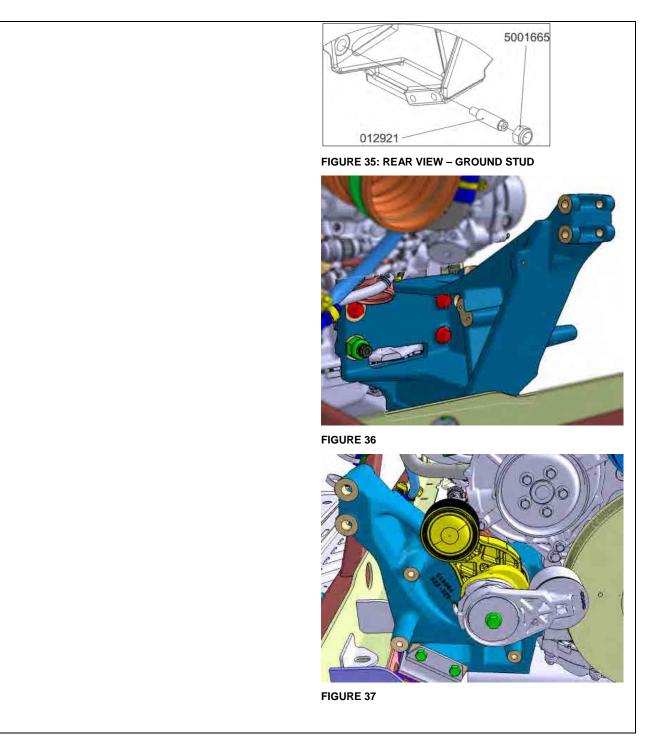


FIGURE 31: L.H. REAR ENGINE SUPPORT





- 32. Install the new crank pulley using six new bolts #5001296. Use blue Loctite on the bolt threads. Torque to 36 lbf-ft in a star pattern. Once done perform a final tightening to the value of 66 lbf-ft. **FIGURE 38** 33. Reinstall the water pump drive belt. 0 0 0 Z 0 6 FIGURE 39: WATER PUMP DRIVEBELT 34. Reinstall the AC compressor drive belts. 35. Install the idler support #012943 using three (3) screws #5001799. At the same time, install the alternator lower bracket #060102. screws #5001799 prescribed torque:48 lbf-ft
 - FIGURE 40: BRACKET #060102

36. Make a smooth round clearance in the engine cradle to allow required space for the alternator 2 in. lower bracket #060102 installed at the previous step. Carefully work the edge to achieve a smooth finish and coutour. Measurements: $\leftrightarrow 2'', \uparrow \frac{3}{4}''$ Apply paint to protect the metal against 0 corrosion 3/4 in. **FIGURE 41** 37. Install the new idler #012349 with screw #5001786 and washer #5002008. Tighten to 82 lb-ft screw #5001786 and washer # **FIGURE 42**

38. Install the dust cap #453076.

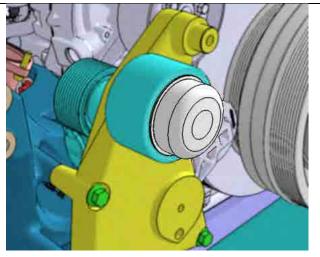


FIGURE 43



FIGURE 44

 Install the new alternator belt tensioner #510991. Secure with one screw #5001799 on which <u>blue Loctite</u> is applied on the threads.

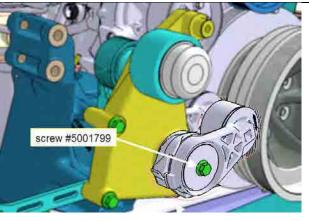
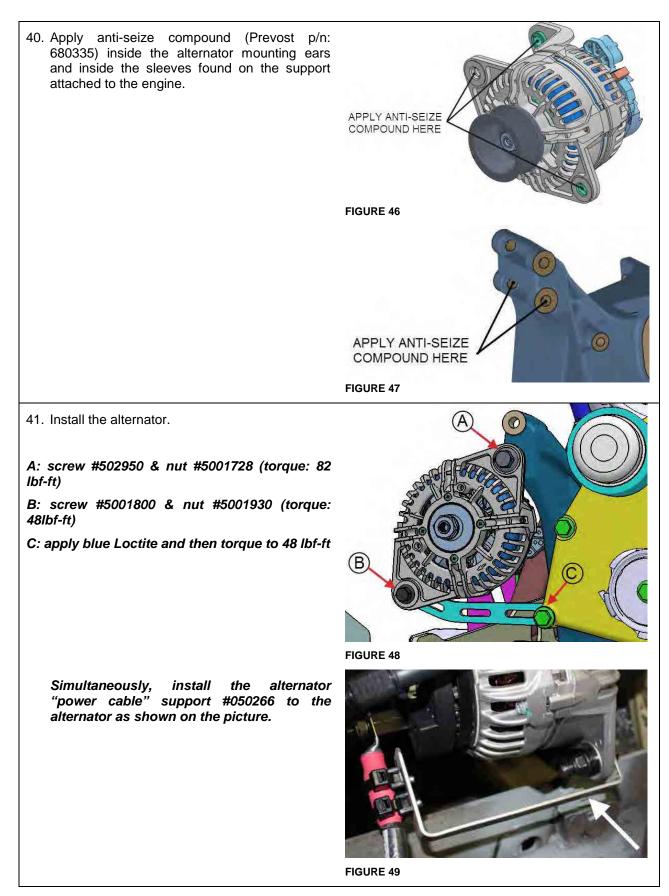


FIGURE 45: TENSIONER MOUNTING SCREW TORQUE : 48 lb-ft



 42. Install the alternator pulley #0600265 (for further details, refer to Maintenance Information IM16-17). Use washer #500449 and flanged nut #21429955 torque: 75 lbf-ft 	
	FIGURE 50
43. Install the alternator drive belt #506026.	FIGURE 51
44. On the alternator, install the stud adapter #060297 at B1+ stud terminal. <i>torque: 11 lbf-ft</i>	

45. Weld the new coolant filter support #050265 on the engine cradle.

24 inches from the end of the cradle

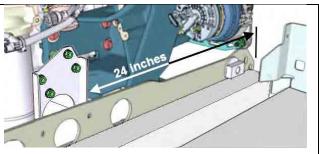


FIGURE 53

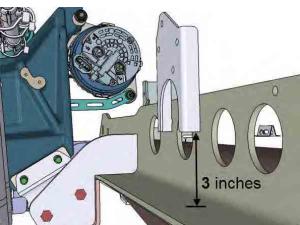


FIGURE 54

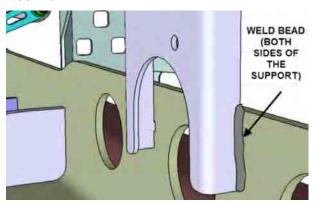
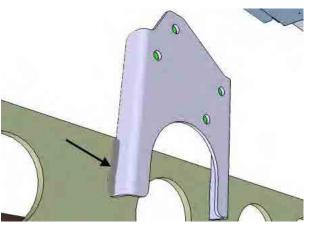


FIGURE 55



3 inches above the flat surface of the cradle

46. As a preparation to **welding**, use a grinder with abrasive disc to remove some paint to reach bare metal. Weld the **ground stud** #380360 centered in the beam and at 14 inches from the beam end.

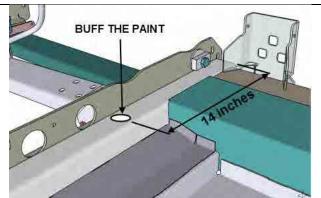


FIGURE 56



FIGURE 57: GROUND STUD #380360



FIGURE 58: GROUND STUD #380360

tie mount #509490 screw #502686

Apply black paint to the area surrounding the ground stud and the ground stud circular base.
 DO NOT apply paint on the electrical contact surfaces.

48. Install a tie mount #509490 with one screw #502686 at the back of the L.H. engine mount.

49. Install the alternator ground cable #069504. Secure to the ground stud on the alternator using washer #502573 and nut #5001182.

torque: 6 lbf-ft

- 50. Secure the alternator ground cable to the previously installed tie mount using one nylon tie #509491.
- 51. Secure the alternator ground cable #069504 to the previously installed ground stud on the L.H. engine mount.

Use screw #502719 & washer #5001935

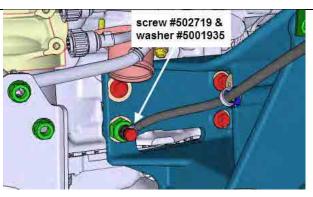
Protection against corrosion. Apply Color Guard rubber coating on the ground stud once the ground cable is hooked up.

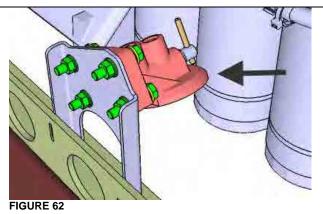
52. To the previously installed coolant filter support, install the filter holder recovered from the former installation.

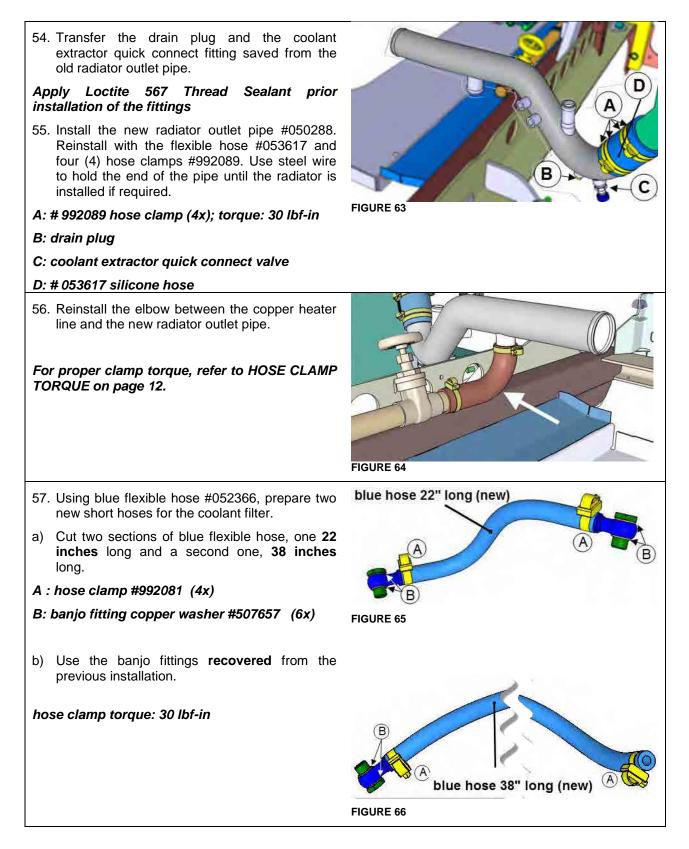
53. Install a new coolant filter onto the filter holder. Check the clearance between the filter and the near hose clamps of the coolant pipe leading to the transmission oil cooler.



FIGURE 60

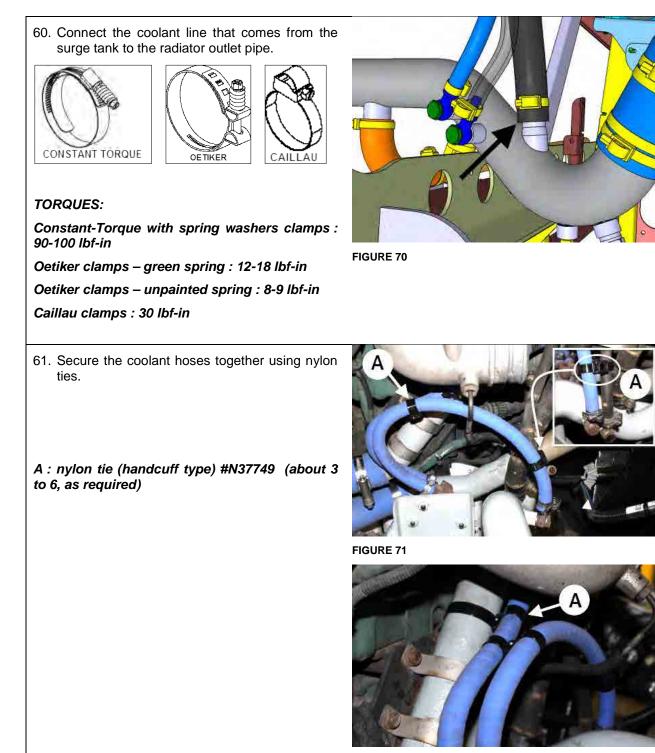






58. Install the 20" long and 36" long hoses TO THE ENGINE BLOCK PUSH-LOK 610 FITTING prepared at the previous step as shown on the images. TO THE RADIATOR OUTLET PIPE **FIGURE 67** M copper washers #507657 **FIGURE 68** 59. Connect the DEF injector coolant line return hose to the radiator outlet pipe. Use two (2) new banjo fitting copper washer #507657

FIGURE 69: DEF INJECTOR COOLANT LINE RETURN HOSE



- 62. Secure the coolant hose near the engine block «push-lok» fitting as shown.
- B : nylon tie #504016 (1x)



- 63. Hook up the "L.H. alternator power cable" #23498785 to the alternator (+) terminal which is the stud adapter.
- A: nut M8 #5001983 torque: 11 lbf-ft
- B: flat washer #5001341
- C: nylon tie #504016 (2x)
- D: tie mount #504013 (2x)
- E: rivet #504379 (2x)

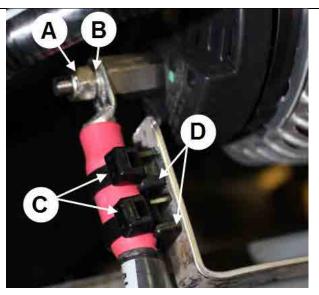
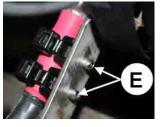


FIGURE 74



- 64. Connect the "fan drive ground cable" #069246 to the ground stud previously welded to the chassis.
 - A: split lock washer #500482
 - B: brass nut #500998
 - C: fan drive ground cable #069246

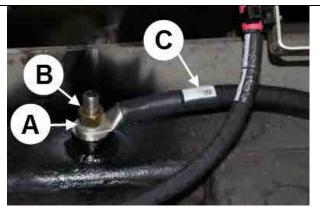




FIGURE 77

65. Apply Color Guard rubber coating on the ground stud connection.



FIGURE 78: GROUND STUD WITH RUBBER COATING

66. Apply Color Guard rubber coating at the alternator ground ([⊥]/₌) and positive (+) connections.



FIGURE 79: GROUND CONNECTION ON THE ALTERNATOR



FIGURE 80: POSITIVE (+) CONNECTION ON THE ALTERNATOR

- 67. Install a tie mount #509490 at the location shown on the picture. Secure the tie mount with a rivet.
- A: tie mount #509490
- B: rivet #504610
- C: nylon tie #509491
- D: fan drive power cable #23498721
- 68. Secure the "fan drive power cable" #23498721 onto the tie mount using a nylon tie. Make sure to leave **26 inches long** from the tie mount up to the end of the "fan drive power cable" red connector.

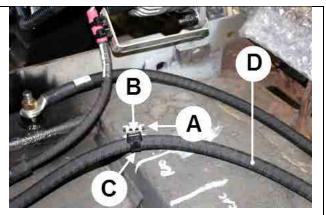




FIGURE 82

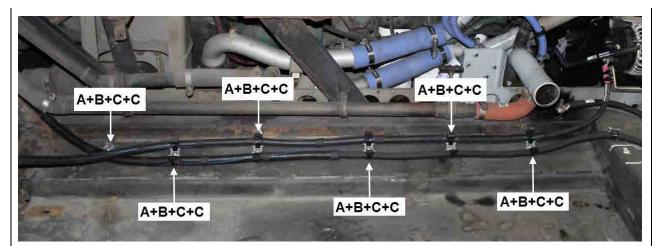


FIGURE 83



FIGURE 84

69. Install **six (6) tie mounts** to secure the "fan drive power cable" and the "L.H. alternator power cable" as shown on the picture.

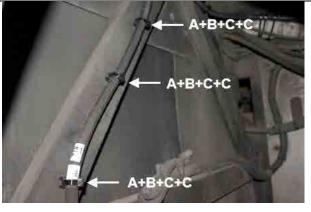


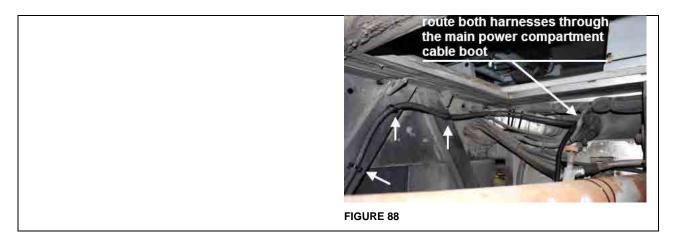
- A: tie mount #509490
- B: rivet #504610
- C: nylon tie #509491



FIGURE 86

- 70. Route the "*fan drive power cable*" and the "*L.H. alternator power cable*" up to the main power compartment. Refer to the pictures at right as a guide for the installation.
- 71. Secure both cables using five (5) tie mounts #509490 fixed with five (5) rivets #504610. Secure the cables on the tie mounts as previously done with ten (10) nylon ties # 509491.
- A: tie mount #509490
- B: rivet #504610
- C: nylon tie #509491





72. INSTALLATION OF THE "FAN TO RJB INTERFACE" HARNESS #23488790

- a) Route the "fan to RJB interface" harness #23488790 up to the main power compartment. Secure this harness to the fan drive power cable using nylon ties #504016.
- b) This harness will be connected close to the fan drive power cable, thus it also requires 26 inches of free length.

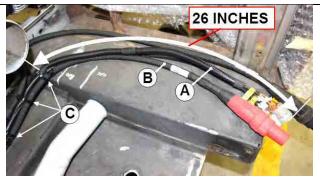
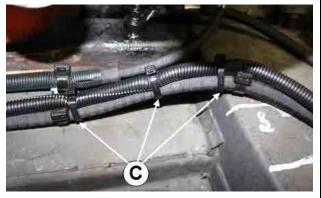


FIGURE 89

A: FAN TO RJB INTERFACE" HARNESS #23488790

B: FAN DRIVE POWER CABLE

C: NYLON TIES #504016 (23x approx.)



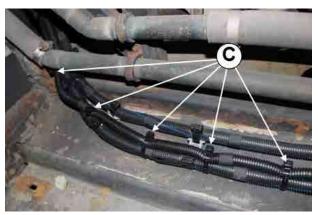


FIGURE 91

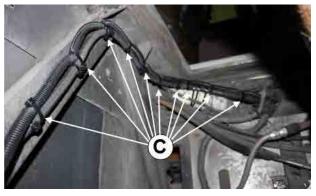


FIGURE 92

73. INSTALLATION OF THE ALTERNATOR CONTROL HARNESS #069511

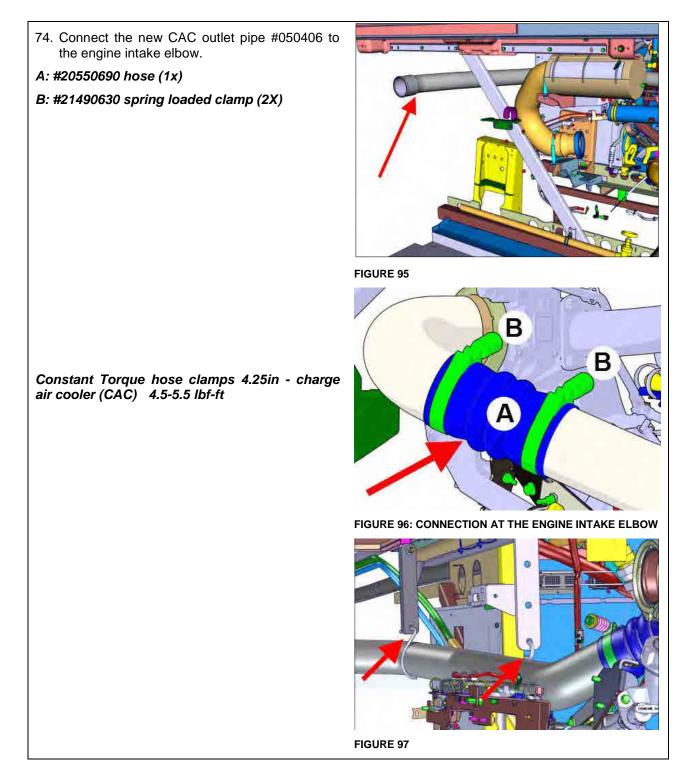
- a) Connect the harness #069511 to the alternator.
- b) Secure the harness with nylon ties as shown on the pictures.

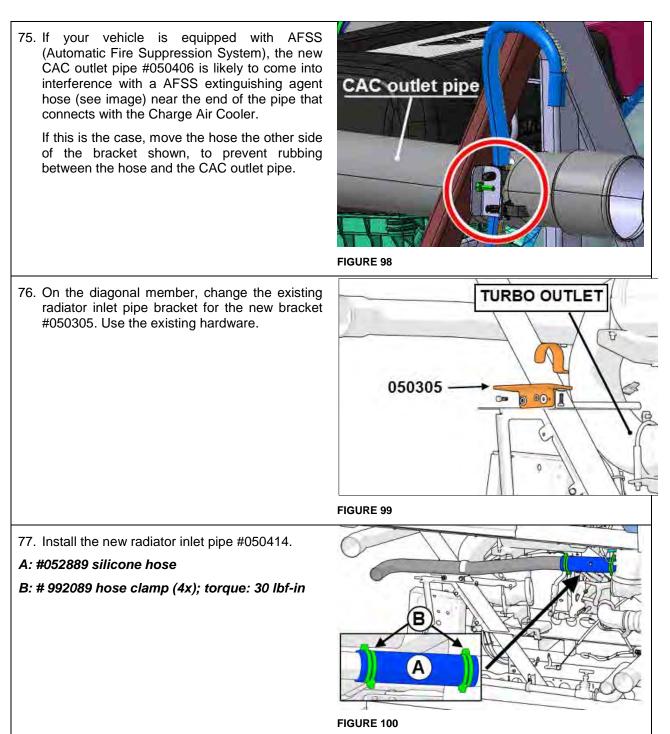


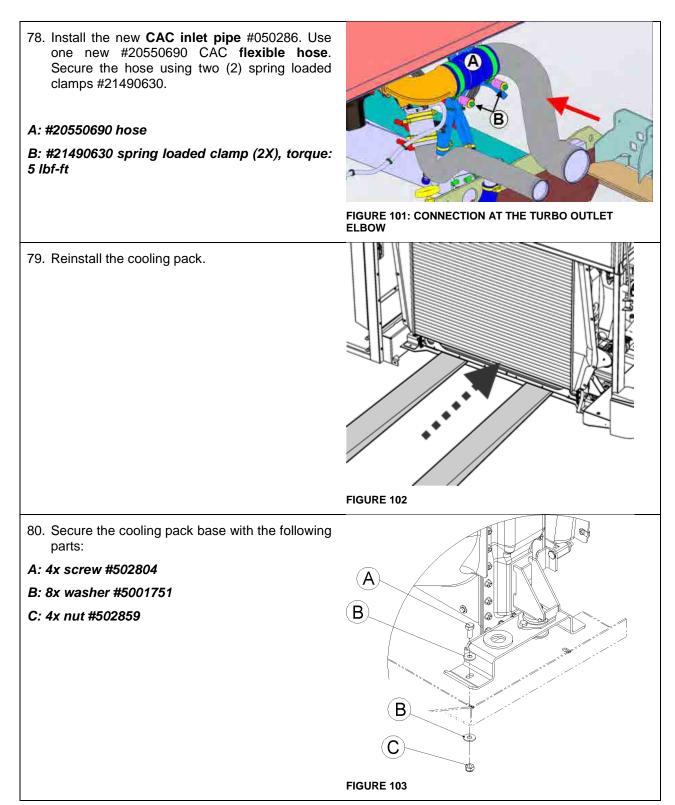
FIGURE 93: C: NYLON TIES #504016 (2x)

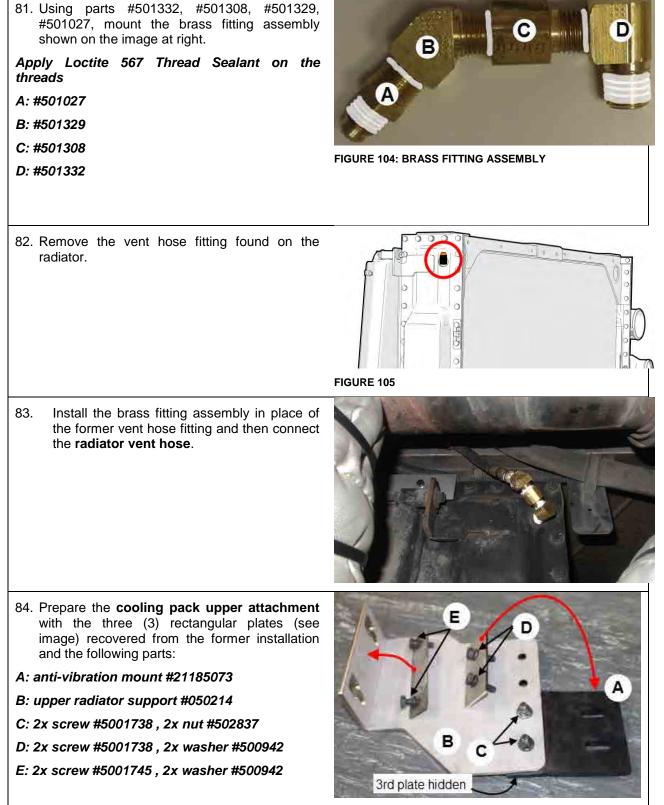


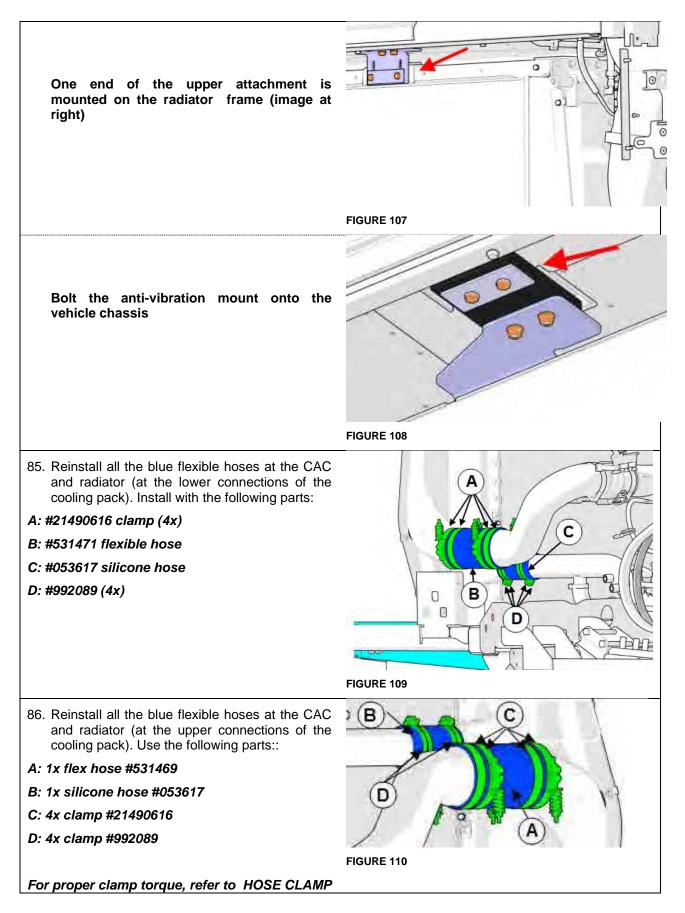
FIGURE 94: C: NYLON TIES #504016 (2x)

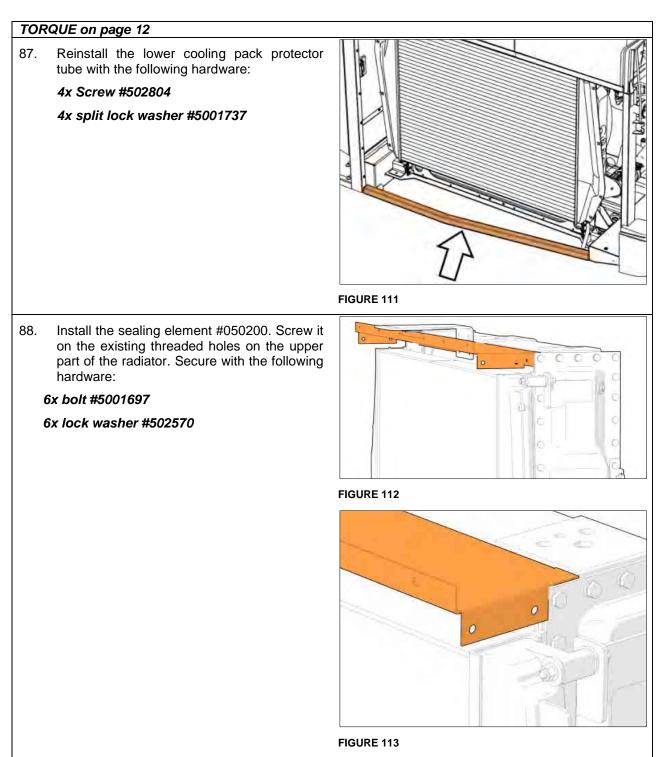


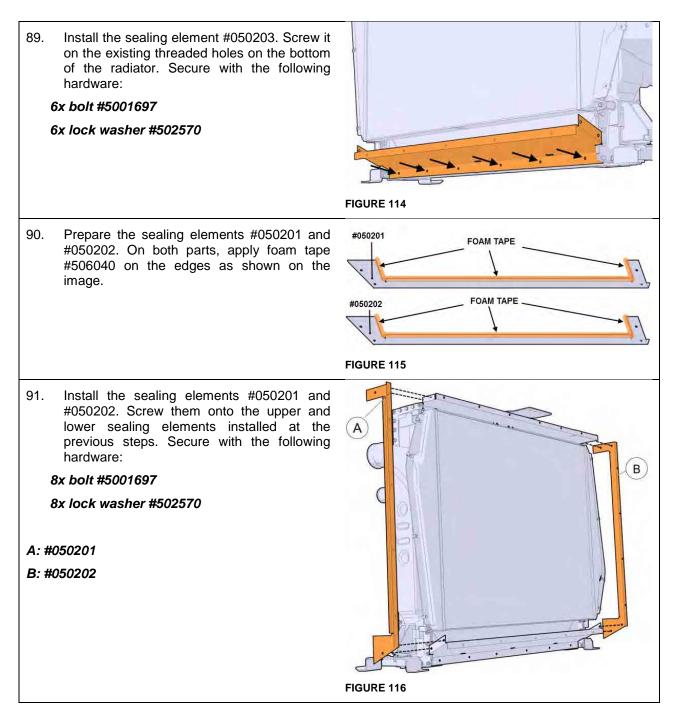


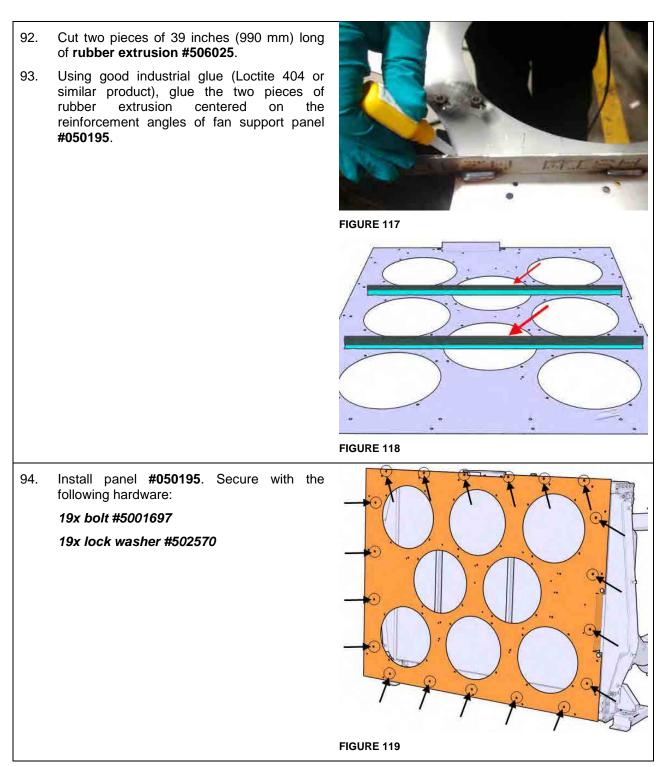


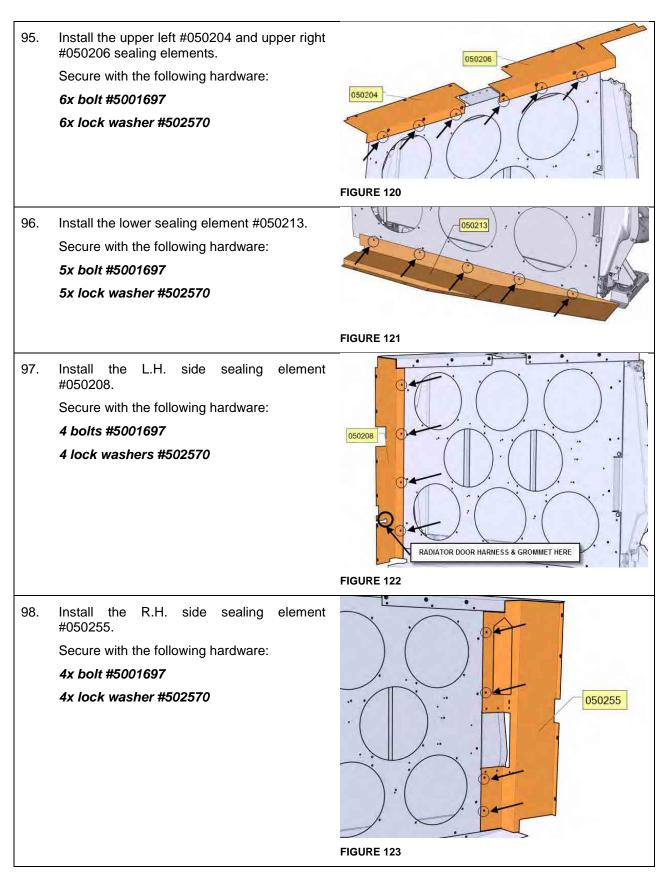












99. With a paint marker, identify the fans from 1 to 8 in accordance with number found on a label on their respective blue connector.



100. Install the **fans** and <u>fan hand guards</u> on the panel in the same arrangement shown on the image. Be sure to place the fan so that **the cable is at the proper location**, 3 O'clock, 6 O'clock or 12 O'clock. Refer to the image at right.



6 O'clock

FIGURE 124

Install with the following hardware:

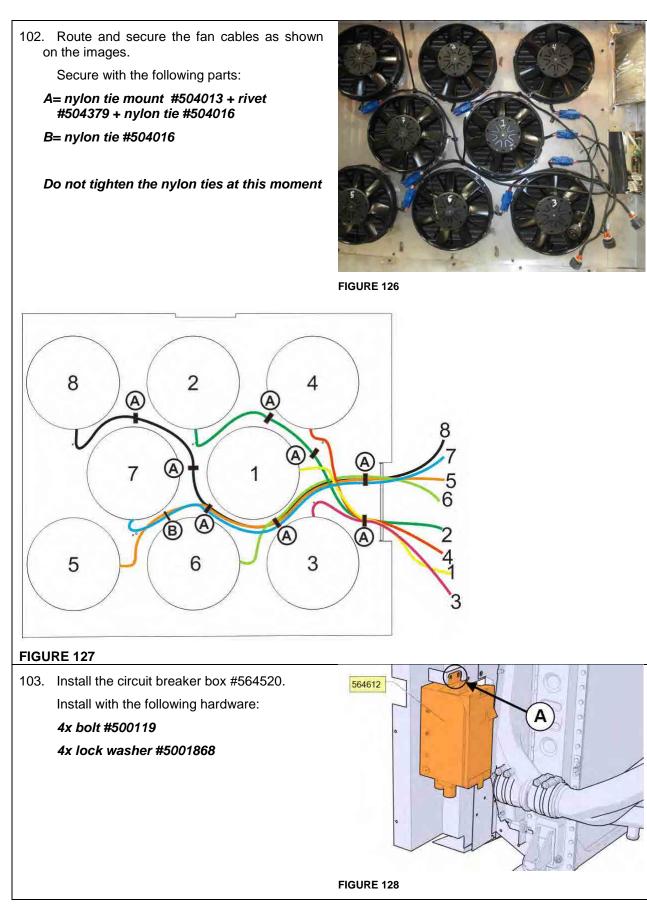
32x bolts #502686

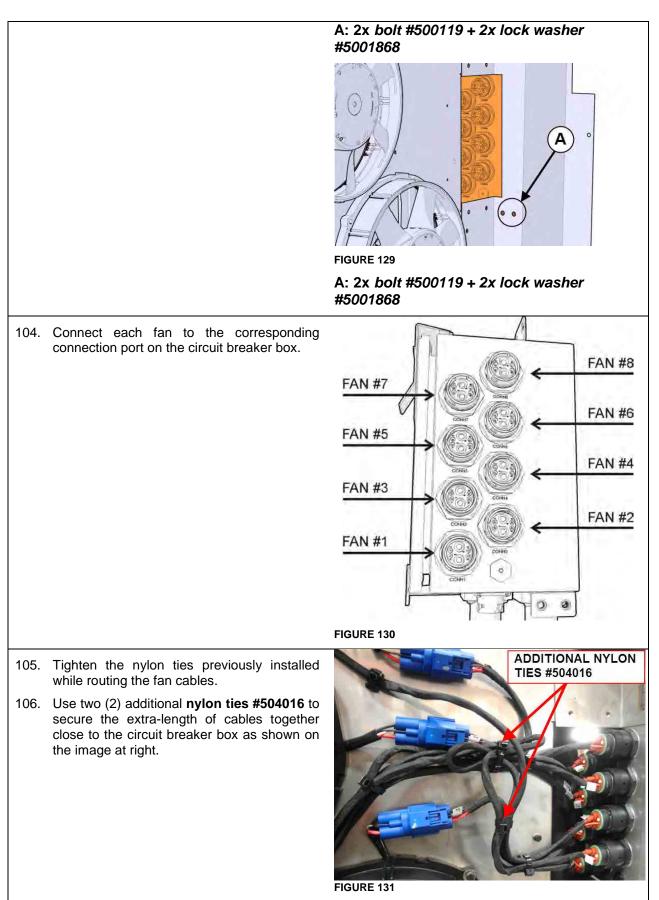
32x lock washers #5001833

Prescribed torque:30 lbf-in

101. Snap the fan blue connector in the holes punched on the panel for that matter.







107. Install the electrical **connector cover #** 050229.

Fasten with the following hardware:

4x bolt #5001697

4x lock washer #502570

108. Using good industrial glue (Loctite 404 or similar product), glue three (3) pieces of rubber extrusion #506025 as shown on the connector cover.

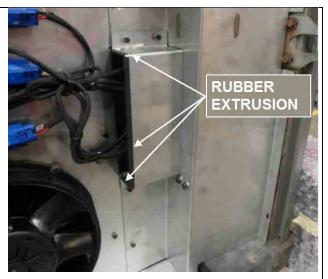
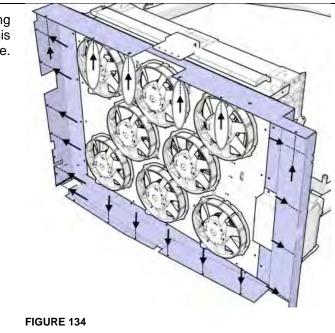


FIGURE 132



FIGURE 133



109. Complete the installation of the sealing elements. Screw the panels to the chassis threaded holes where shown on the image. Use the following hardware:

22x bolt #502848

- 110. Complete the connection of the to the fan circuit breaker box (three connectors: gray, black and red).
- A: fan drive ground cable (black connector)
- B: fan drive power cable (red connector)

C: "fan to RJB interface" harness (gray connector)

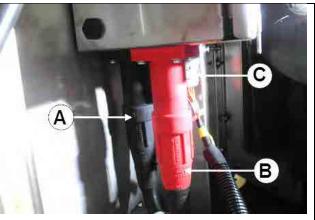


FIGURE 135

- 111. Secure the fan drive ground cable and the fan drive power cable connected to the fan drive circuit breakers box as shown on the pictures.
- A: rivet #504379 (6x)
- B: tie mount #504013 (6x)
- C: nylon tie #504016 (6x)
- D: handcuff nylon tie #N37749 (1x)

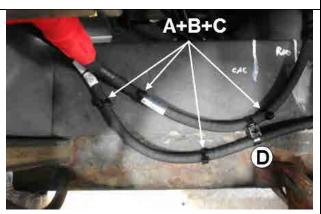
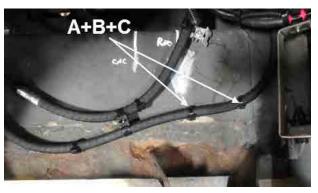


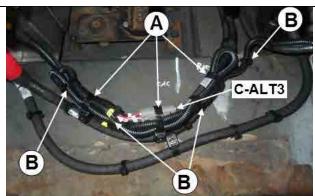
FIGURE 136



112. Connect the alternator control harness connector **C-ALT3** to connector **C-ALT3** of the "fan to RJB interface" harness. Secure the extra length of harness as shown with nylon ties.

A: handcuff nylon tie #N37749 (3x)

B:nylon tie #504016 (4x)

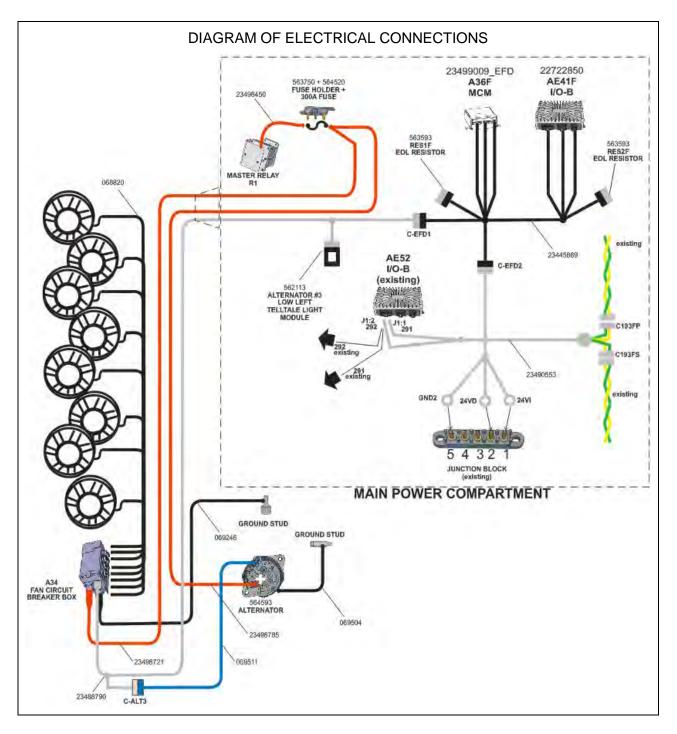


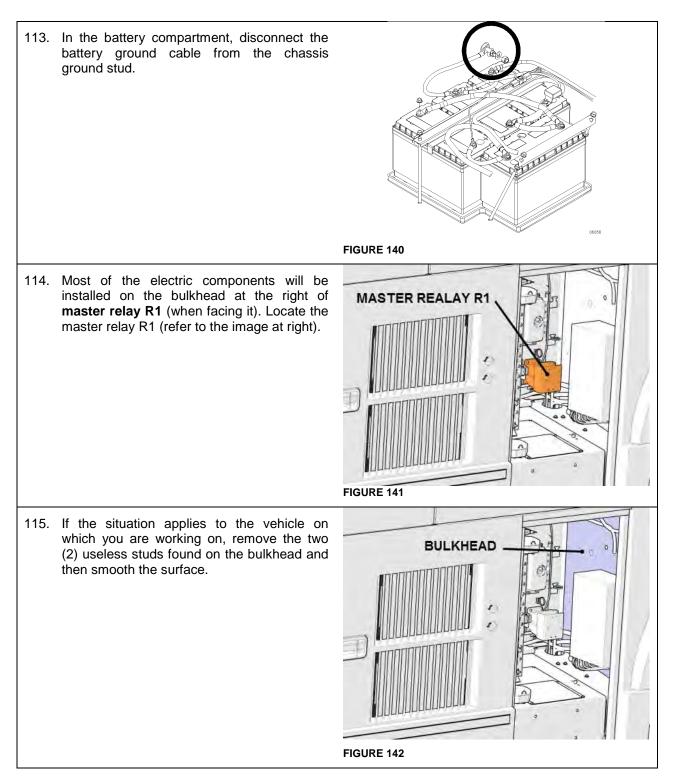
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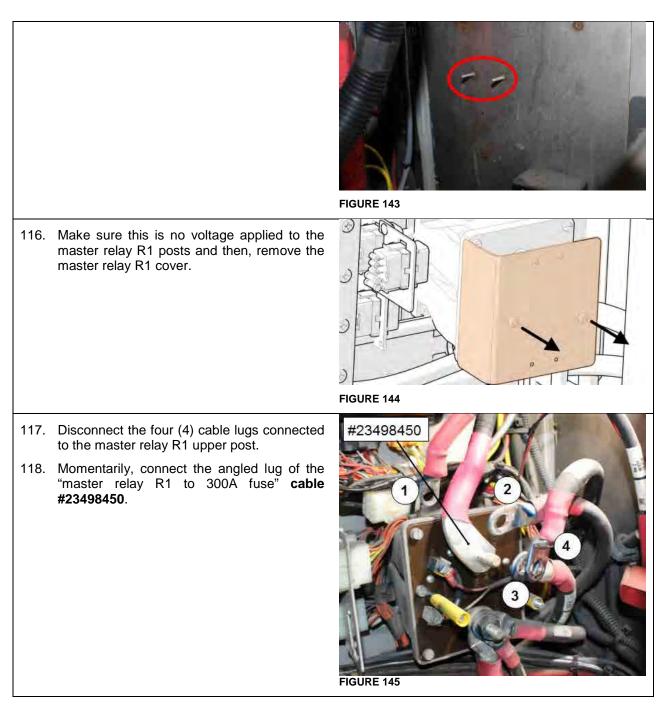
INSTALLATION OF ELECTRIC COMPONENTS AND HARNESS CONNECTIONS IN THE MAIN POWER COMPARTMENT

FIGURE 138









- 119. Find the best location where to install the **fuse holder #563750** on the bulkhead. Take note that the fuse holder must be installed at a distance that allows cable #23498450 to reach it.
- 120. Drill two 11/64 pilot holes for the installation of the fuse holder on the main power compartment bulkhead. Secure with the following hardware:

A: tapping screw #500658 (2x) + flat washer #5001341 (2x)

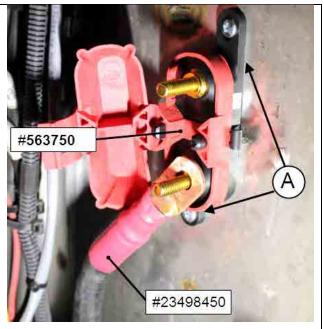


FIGURE 146

121. Reinstall the four (4) other cable lugs to the master relay R1 upper post.

Being the largest lug at R1, the cable #23498450 lug should be placed first on the post (behind all the other lugs) (or second if rubbing is likely to happen).

Master relay R1- Port 30 – M10-1.5 stud nut torque: 160-195 lb-in (18-22 Nm)

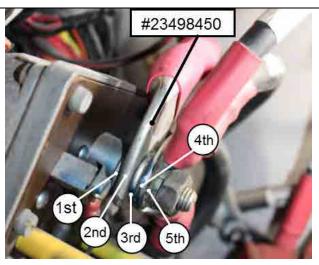


FIGURE 147: ON THIS PICTURE, CABLE #23498450 LUG IS IN SECOND (2^{ND}) POSITION BECAUSE IT WAS LIKELY TO RUB ON THE HEAD OF ONE OF THE FOUR SCREWS.

122. Reinstall the master relay R1 cover.



Writer: EL

- 123. Place the 300A fuse #564520 in the fuse holder underneath the cable lugs.
- 124. Connect to the free post of the fuse holder the two (2) following cables that are routed from the alternator and the fan drive circuit breakers box:
 - Fan drive power cable #23498721
 - L.H. alternator power cable #23498785 •

A: nut #5001983 (2x)

A: tie mount #509490 (2x)

B: rivet #504610 (2x) C:nylon tie #509491 (3x)

B: washer #5001341 (2x)

Thread the nuts and tighten to a torque of 96 lbf-in (11Nm).

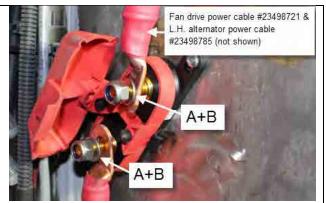
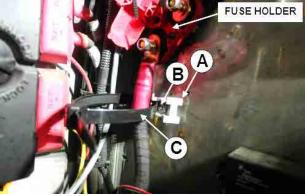
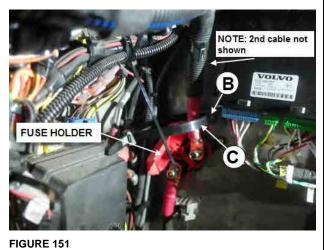


FIGURE 149: TAKE NOTE THAT THE 300A FUSE IS NOT SEEN ON THE PICTURE ABOVE BUT IT SHOULD BE **INSTALLED AT THIS STEP**

125. Secure the "fan drive power" cable and the "L.H. alternator power" cable as shown on the pictures at right using the following parts:





- 126. Install the MCM #23499009_EFD and the I/O-B module #22722850 on the bulkhead.
- Spacing between the I/O-B and the MCM=1 inch
- Pilot holes diameter: 11/64"

Install with the following hardware:

Tapping screws #500658,

3x for the MCM

4x for the I/O-B module

- 127. In the main power compartment, connect the "fan to RJB interface harness" to the "MCM to I/O-B interface harness" #23445869 by means of connector C-EFD1.
- 128. Connect the MCM and the I/O-B module together using the "MCM to I/O-B interface harness" #23445869.
- 129. Connect the OEL resistors connector **RES1F** and **RES2F** (part #563593) to the "MCM to I/O-B interface harness". See the image at right and the following pictures for reference.

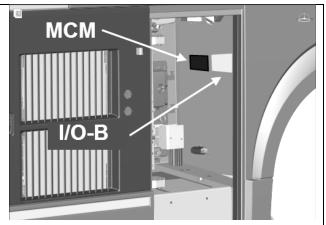
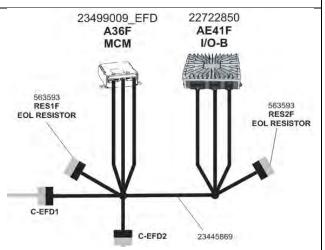
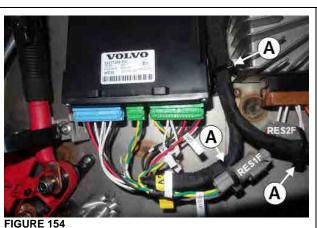


FIGURE 152: MAIN POWER COMPARTMENT

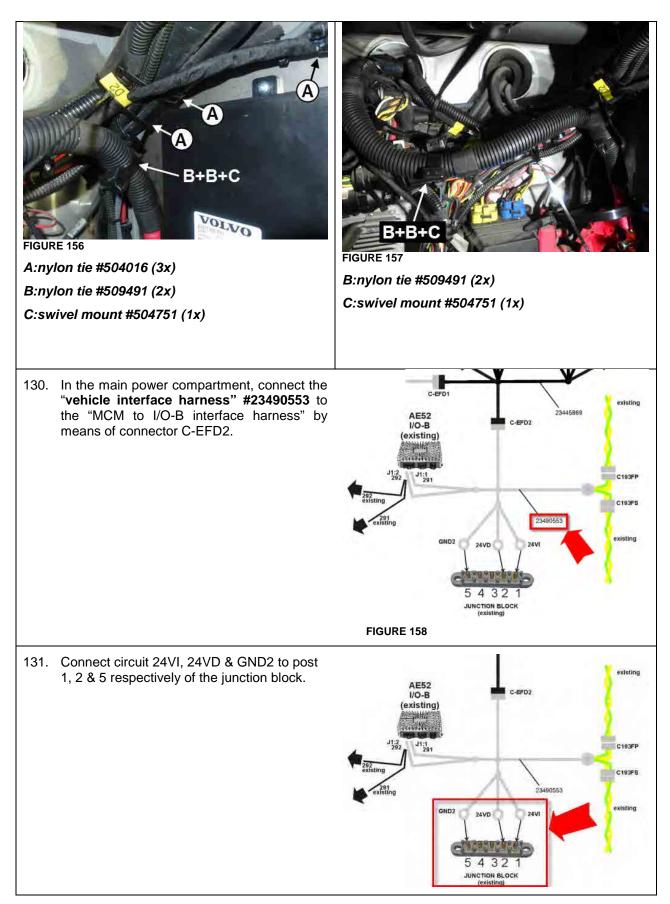


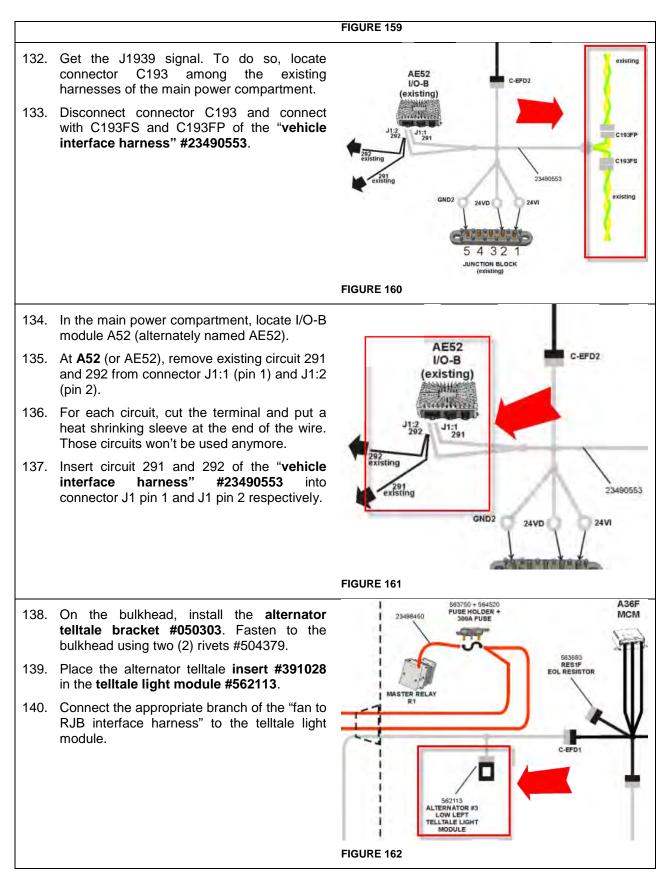


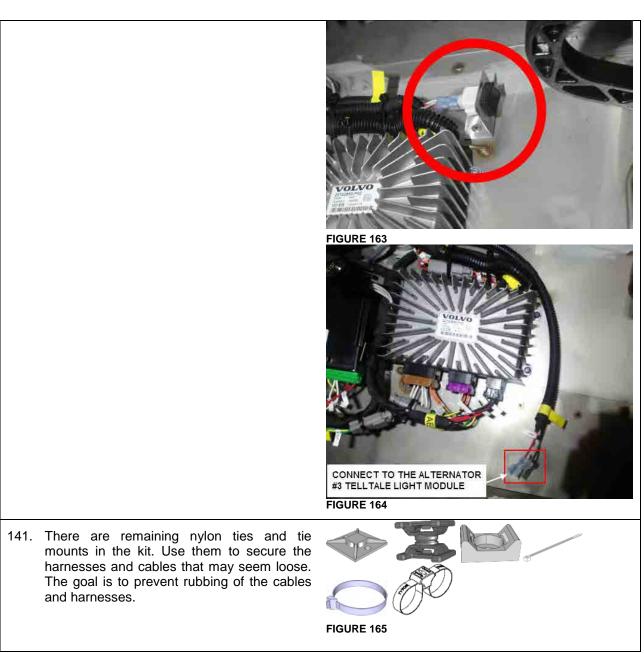
A:nylon tie #504016 (3x)

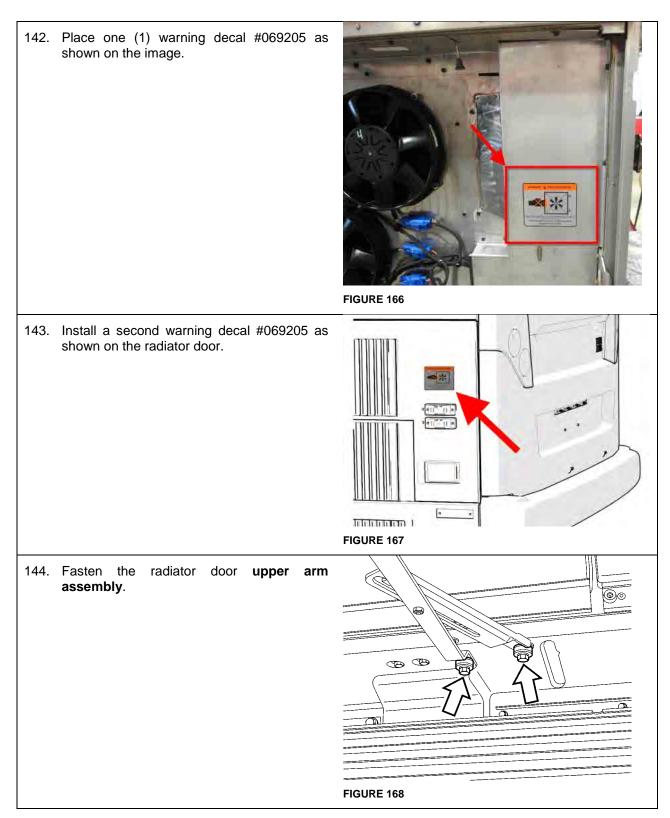


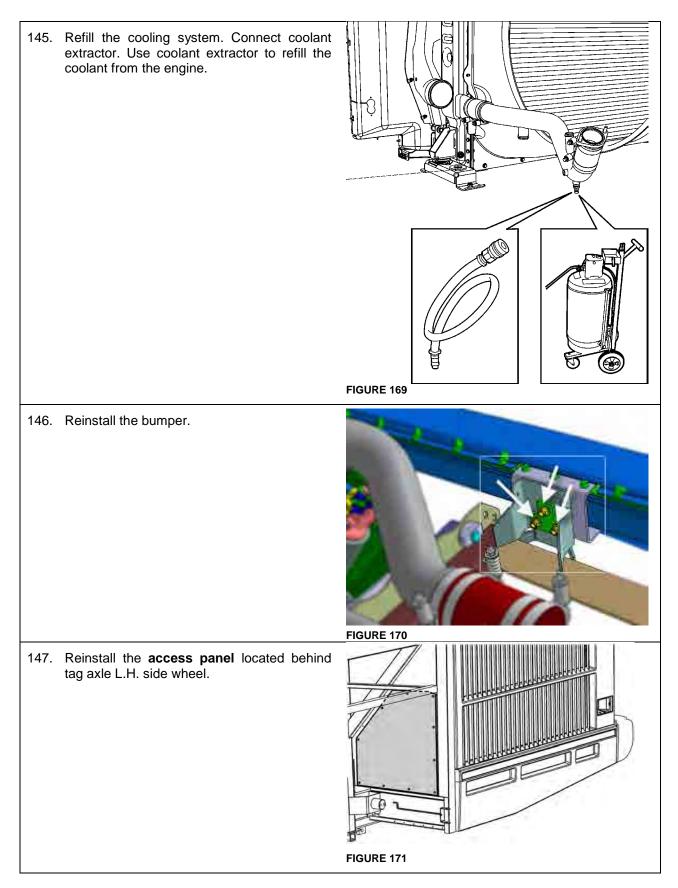
A:nylon tie #504016 (2x)

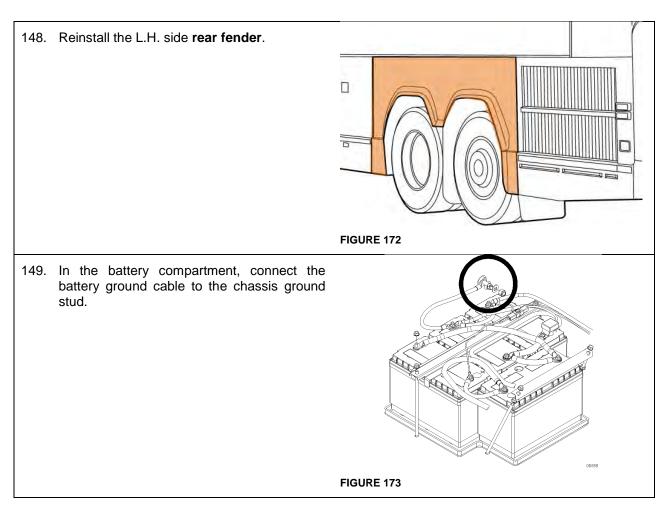












PARTS / WASTE DISPOSAL

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)