

PREVOST

Instruction Sheet

IS-14220B CO-06

FUEL PRO FILTER INSTALLATION (Change Order 06)

REVISION B: THIS INSTRUCTION SHEET SUPERSEDES PREVIOUS VERSION.

May 06, 2016 | Added parts to main BOM for L305 connector changeover

MATERIAL

Kit #034003 includes the following parts:

Part No.	Description	Qty
033204	BRACKET, FILTER	1
033205	HOSE ASSY 820 MM	1
033206	HOSE ASSY 472 MM	1
033208	BRACKET	1
033209	FUEL HOSE 5200 MM LONG ASSY	1
033997	BRACKET, FUEL FILTER	1
033998	COLLAR	1
033999	BRACKET	1
034001	BRACKET	1
034002	SPLASH GUARD	1
041150	BRACKET, WIRING	1
060027	HARNESS WIF SENSOR ON DAVCO 382 PRO FUEL	1
3169577	COVER PRE FILTER	1
5001082	NUT HEXF G500 M8-1.25	1
5001084	NUT HEXF G500 M10-1.5	4
5001730	SCR CAP HEXF N500 M6-1 X 16 G 10.9	4
5001741	SCR CAP HEXF N500 M10-1.5 X 30 G8.8	3
5001742	SCR CAP HEXF N500 M8-1.25 X 30 G8.8	1
5001857	NUT HEXF N500 M6-1 PC 8.8	1
500411	WSH FL SS .260X.697X.05	1
5011049	A 45 1/2PMx#8JM	1
501612	A 90 1/2PMX#8SM	1

501713	A 90 1/2PM X 1/2PM BRASS	1
501815	A BH #8JMX#8JM	1
502854	NUT HEX N500 M6-1	2
503488	PLAS TUBE NYL #8 BLACK	1
504637	CABLE TIE, NYLON BLK (STD)	1
504750	CABLE TIE W/FIR TREE MOUNT(120 POUNDS)	2
504768	CABLE TIE,NYLON BLK(120POUNDDOUBLE LOOP	1
504806	WIRE ROPE	1
530096	VALVE, 1/2" SQUARE HEAD	1
531495	FUEL FILTER PRO382 12V HEAT & WIF	1
560784	PLAS SHRINK .25-.08ID BLACK	1
641383	FP ST #8 X 1/2 NPT	1
8631155	CABLE TIE 200X4.6 TREE MOUNT (30 POUNDS)	1
967344	O-RING	1

Other parts that may be required (from F-7001 to F-7078 incl.)

Part No.	Description	Qty
069348	RJB harness for Fuel Filter heater	1
069349	Chassis harness Fuel Filter heater	1
561565	CABLE SEAL / GREEN	2
562350	CONNECTOR / METRI-PACK 280 / SH 2C	1
562388	SECONDARY LOCK / METRI-PACK 280 / 2C / BLUE	1
563368	SOCKET TERMINAL / 14-12 / PED 12129493	2
564218	"R57"Relay 24V S.P.S.T. / 40 AMPS N.O.	1

NOTE

Material can be obtained through regular channels.

PROCEDURE



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. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

PREPARING THE ENGINE

1. Disconnect the electrical connections on the water separator bowl.
2. Ensure cleanliness throughout the removal procedure.
3. Clean the filter and surrounding area. Use an approved solvent to clean the area around the filter mounting. Let dry.
4. Prepare a suitable container to collect any spilled water or fuel.
5. Remove pre-filter / water separator on the engine.
6. Unscrew and remove the water separator filter.

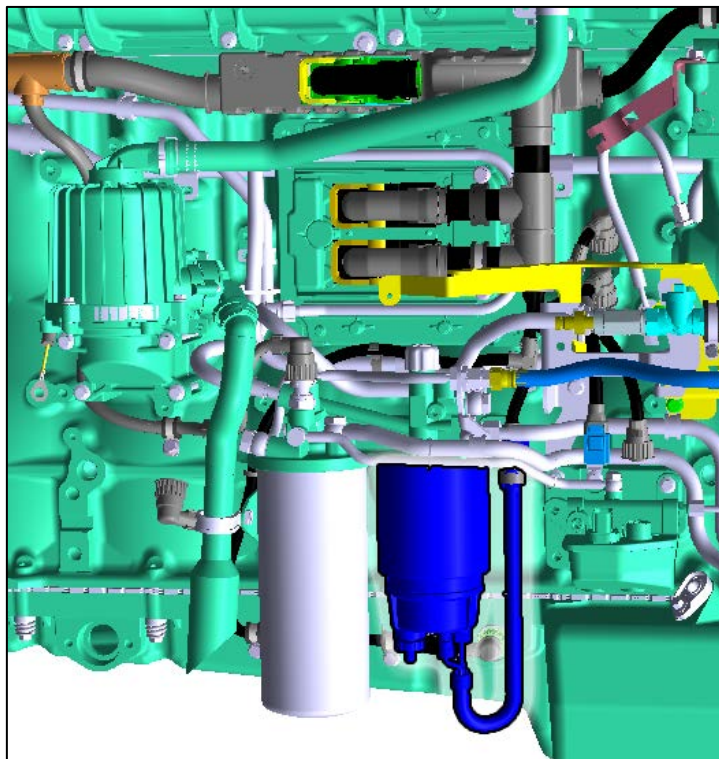


FIGURE 1

7. Disconnect both connections on the bowl (Figure 2)
8. Cut the heater cable.(Figure 2)
9. Seal exposed wires with double wall heat shrink **560784**.
10. Keep **S1** WIF sensor and harness for future use.

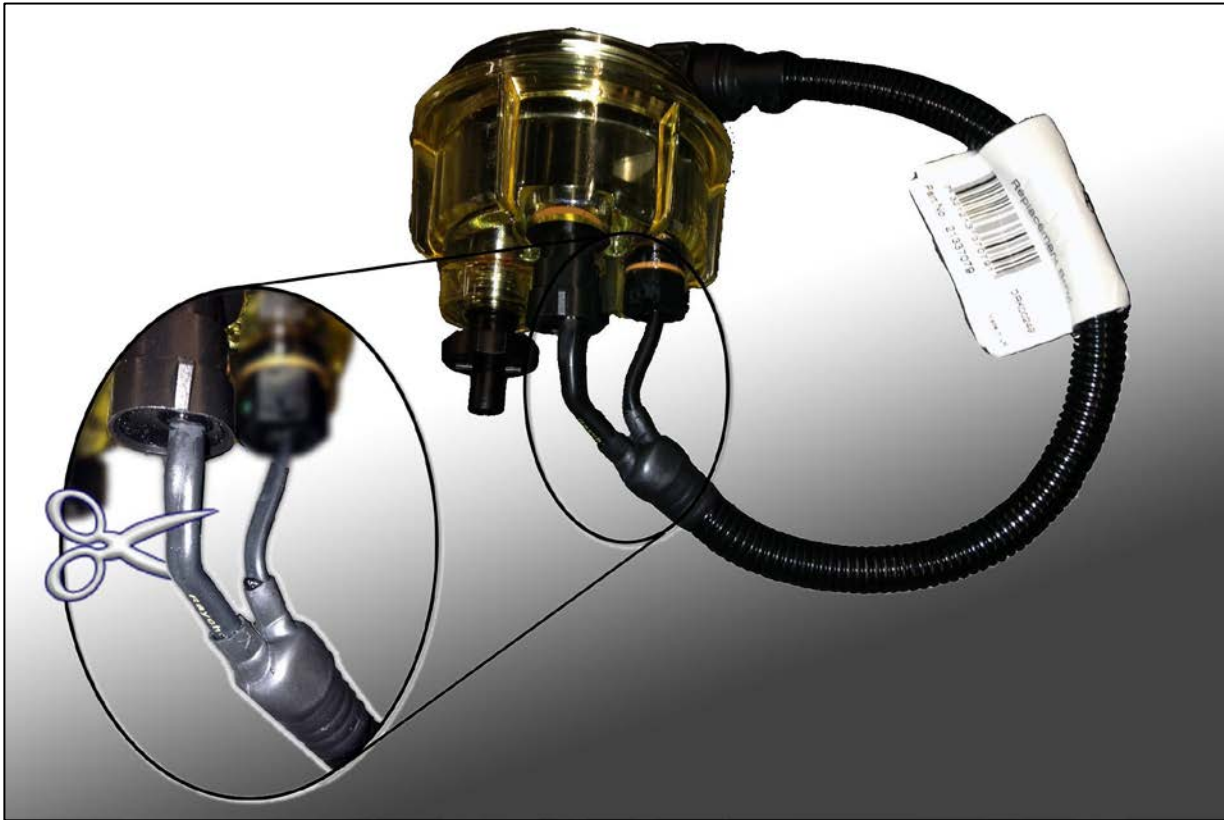


FIGURE 2 : WIF SENSOR HARNESS PREPARATION.

11. On the engine, install cover **3169577**. Oil the O-ring **967344** with clean engine oil.
12. Tighten the cover 1/2 to 3/4 turn *after* the gasket makes contact with the fuel filter housing.

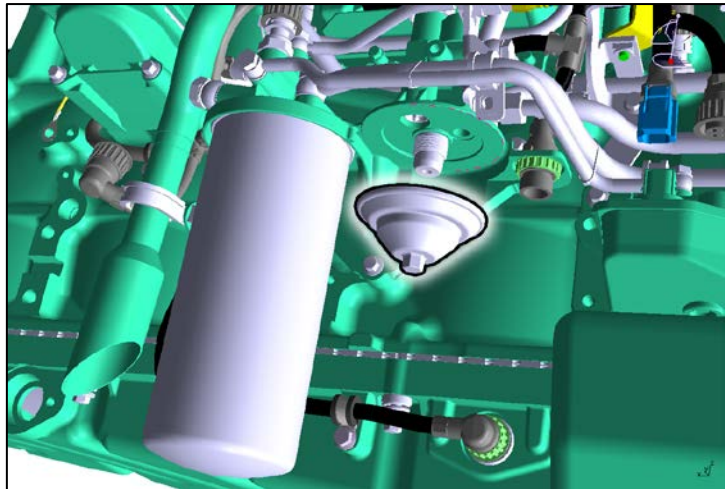


FIGURE 3

WATER IN FUEL HARNESS

13. (Refer to Figure 5)
Connect WIF (Water In Fuel)
harness **060027-1** to engine
connector.
14. **060027-2** connects inside RJB
15. **060027-3** connects RJB to **L305**
fuel filter in condenser
compartment.

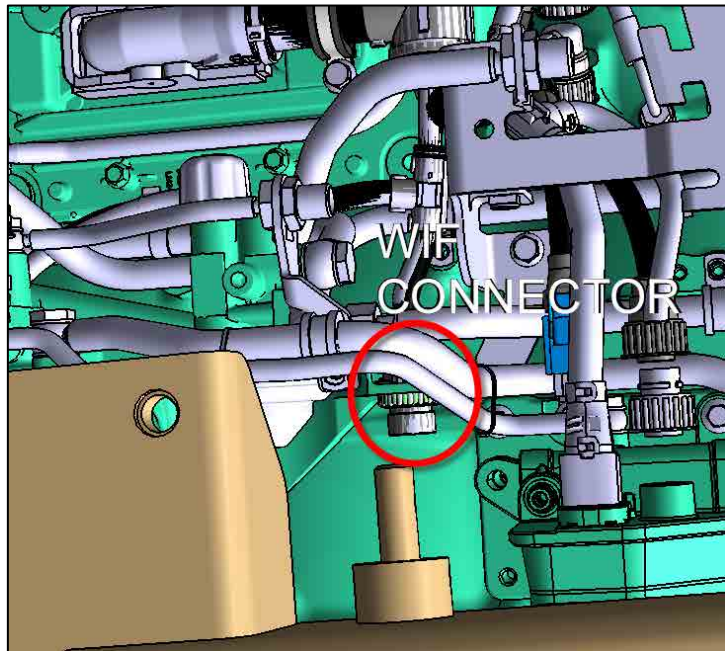


FIGURE 4

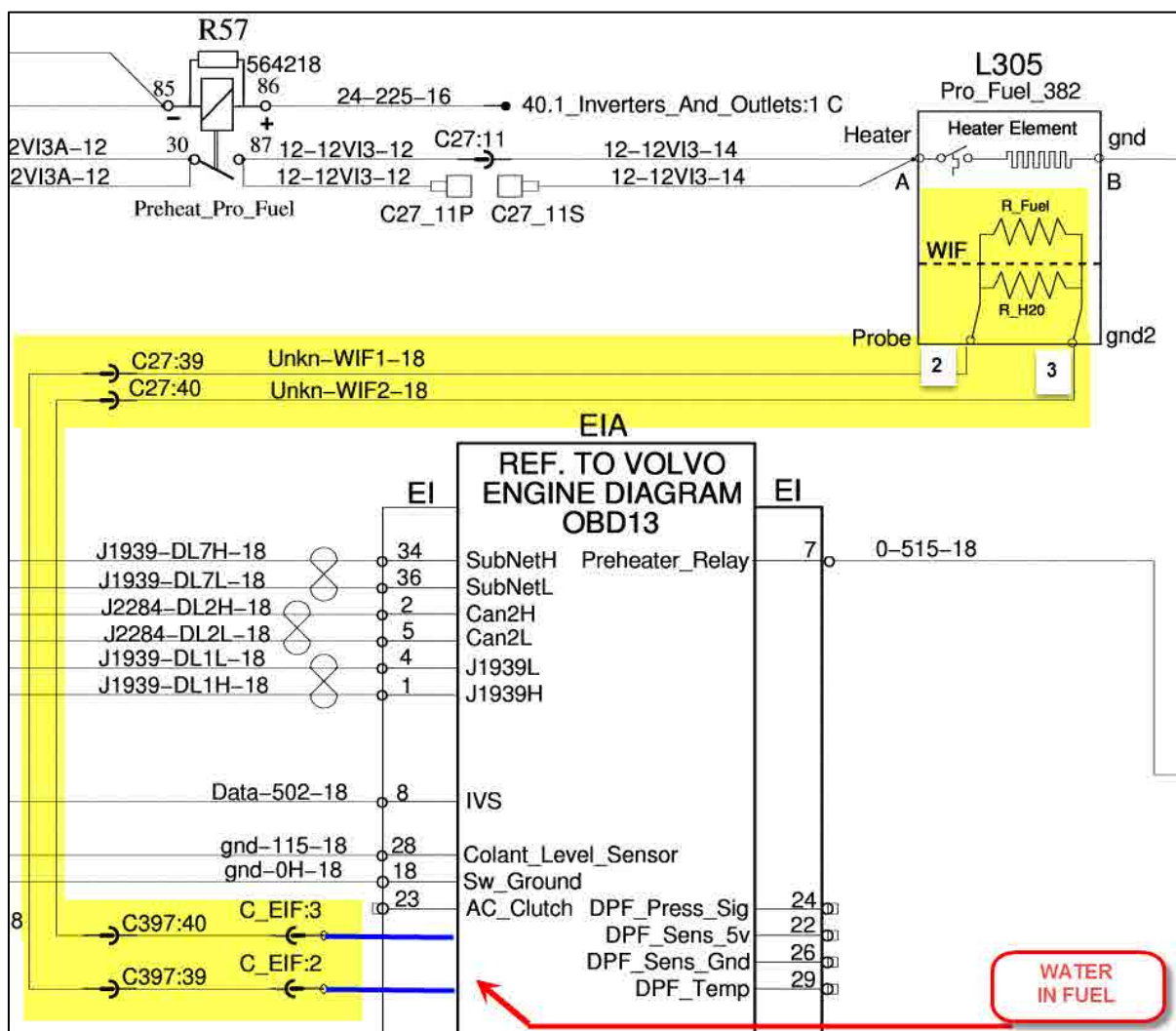


FIGURE 5 DRAFT SCHEMATIC -FUEL PRO.

NEW FUEL HOSE

- The fuel hose going to the engine "in" connection needs to be removed.
- Drain hose of any remaining fuel.
- Use it to pull new hose **033209** towards the condenser compartment and Fuel pro.

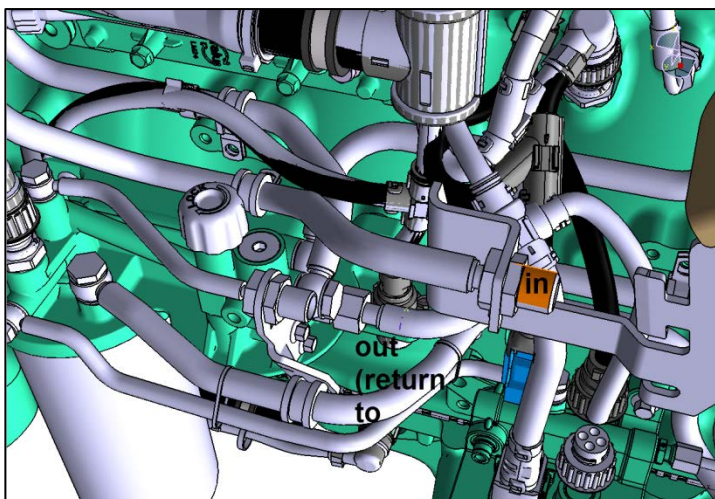


FIGURE 6

FUEL FILTER PREPARATION

19. On the Fuel Pro base, remove WIF sensor **S2**. Discard.

(S2 should not be used)

20. Note the difference in the sensing elements between **S1** and **S2**

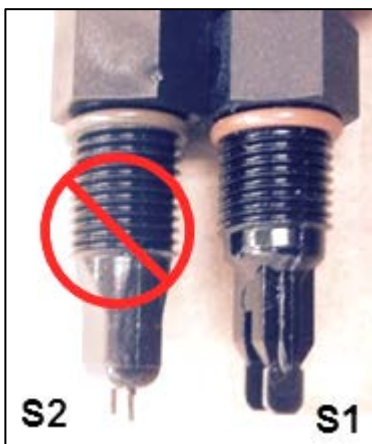


FIGURE 7

21. Install **S1** removed previously on engine on the fuel pro filter in replacement of **S2**.

22. On a work bench, perform a pre-assembly of the **531495** filter, (Figure 9):



FIGURE 8

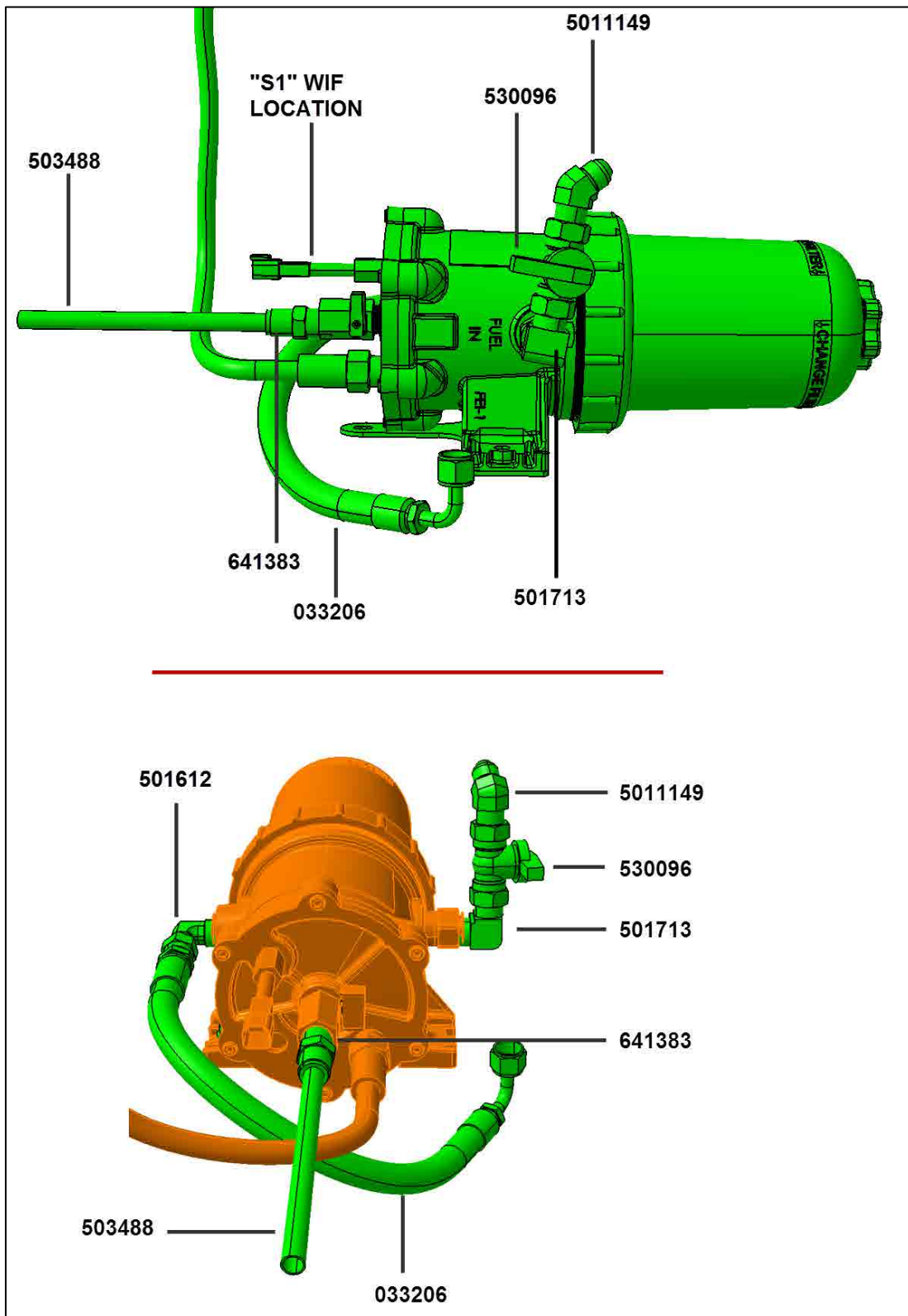


FIGURE 9 : FUEL FILTER PRE-ASSEMBLY.

FUEL FILTER HEATER CONNECTIONS

STOP! THIS NEXT STEP ONLY FOR VEHICLES FROM F-7001 TO F-7078 INCL.
(FLEET NUMBERS 2492 TO 2569)

23. In RJB, Move R13 to the left and add R57 **564218**.

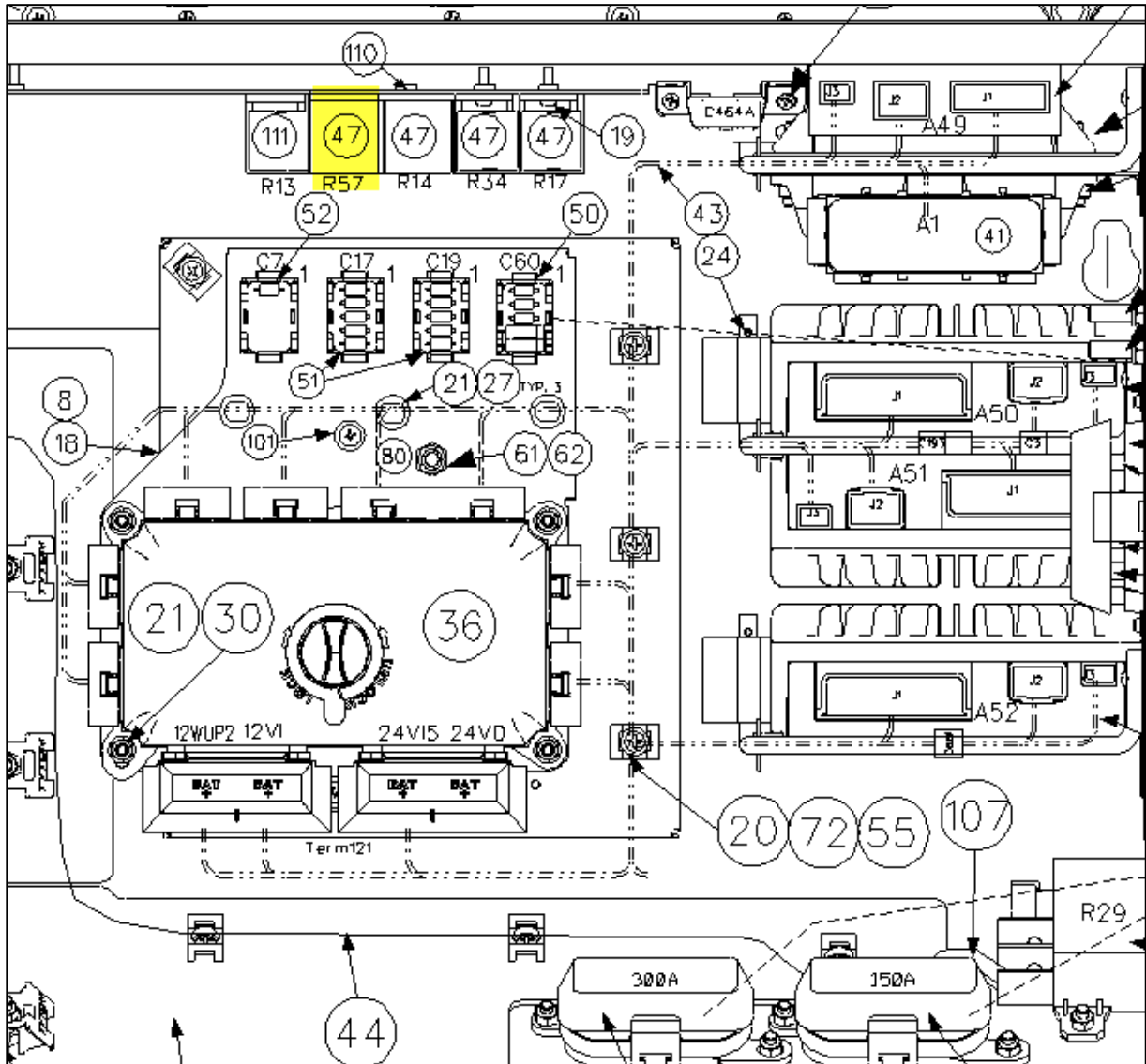


FIGURE 10

STOP! THIS NEXT STEP ONLY FOR VEHICLES FROM F-7001 TO F-7078 INCL.
(FLEET NUMBERS **2492** TO **2569**)

24. In the RJB, connect **069348** filter heater harness according to drawing below :

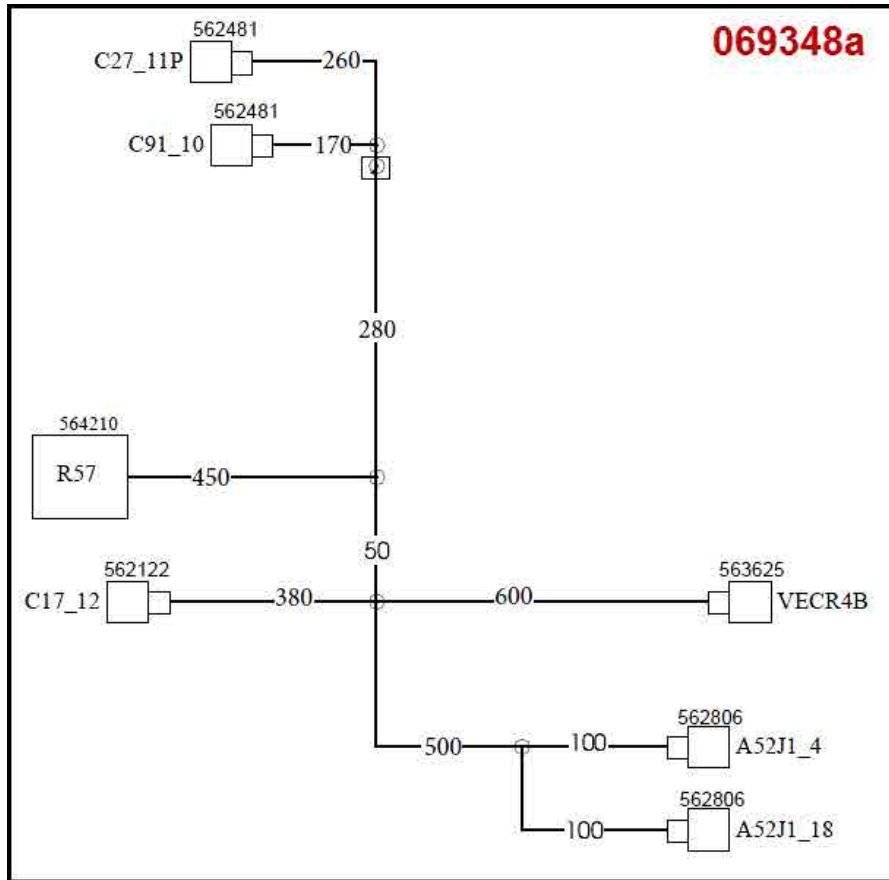


FIGURE 11

STOP! THIS NEXT STEP ONLY FOR VEHICLES FROM F-7001 TO F-7078 INCL.
(FLEET NUMBERS **2492** TO **2569**)

25. Connect the filter heater chassis harness **069349b** and route towards condenser compartment.

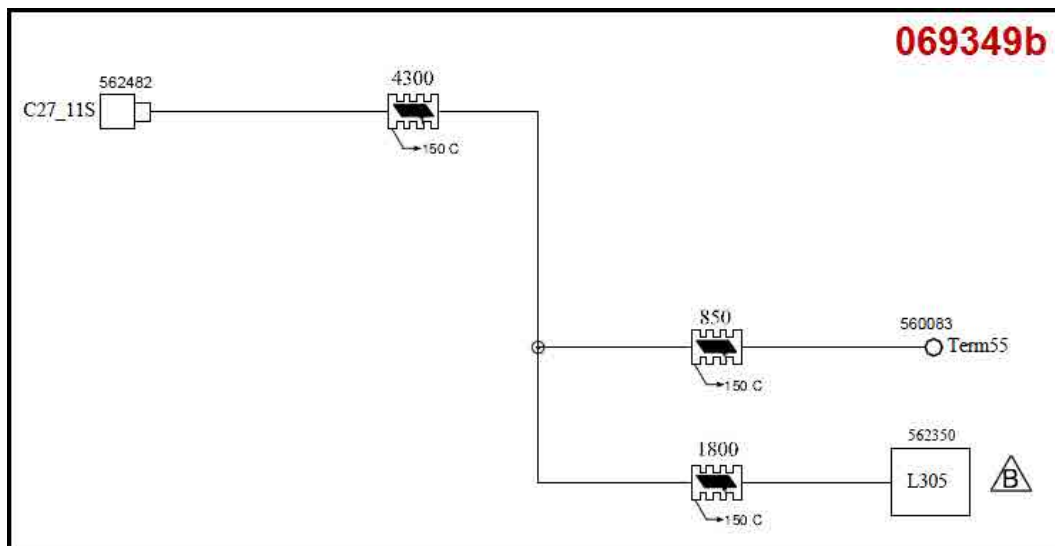


FIGURE 12

PHYSICAL INSTALLATION IN CONDENSER COMPARTMENT

26. In the condenser compartment, install new brackets and filter. (green color in following images)

Overview of final assembly:

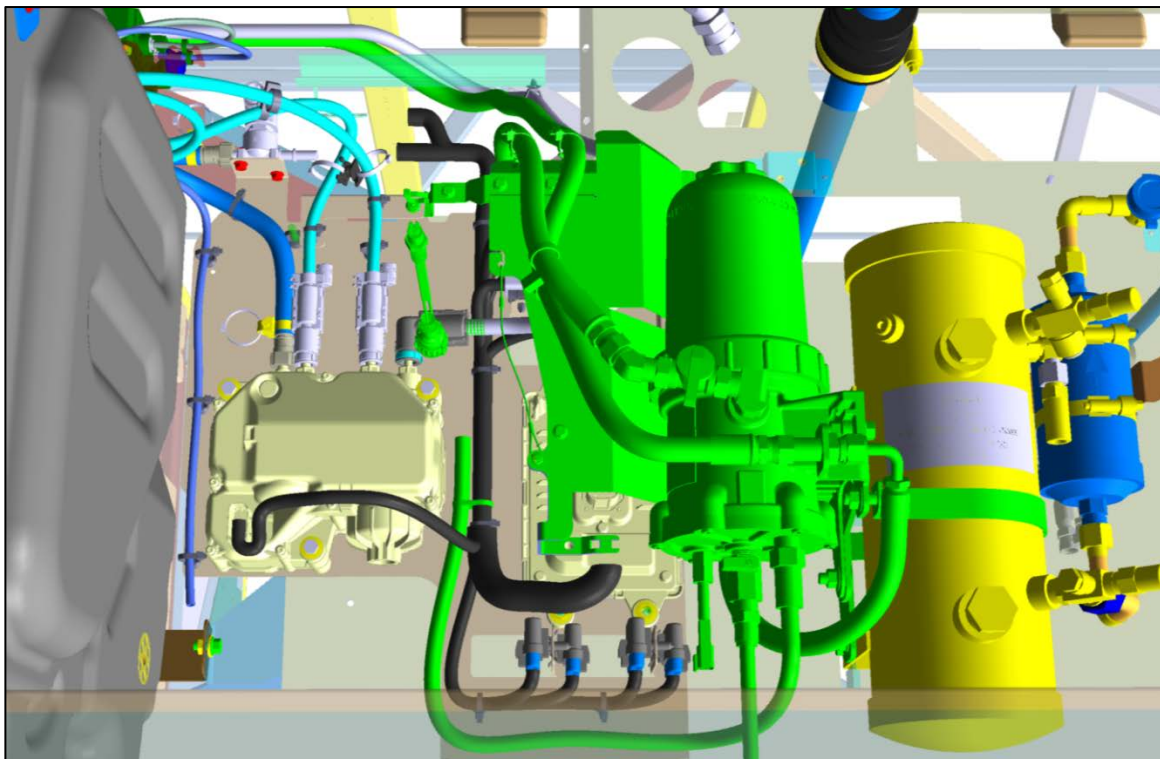


FIGURE 13

27. Install small brackets **041150** and **034001**. See details in next steps.

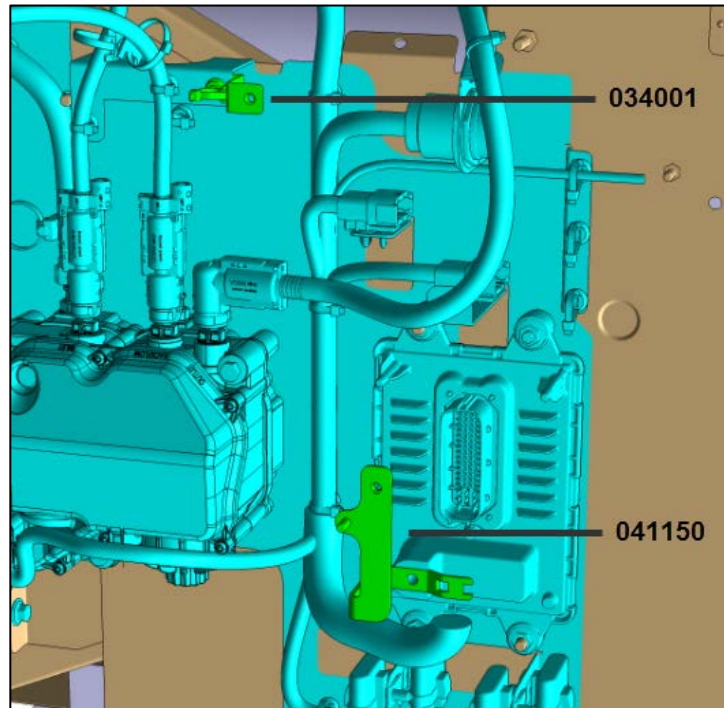


FIGURE 14

28. Install **041150** on ACM. Re-use existing hardware.

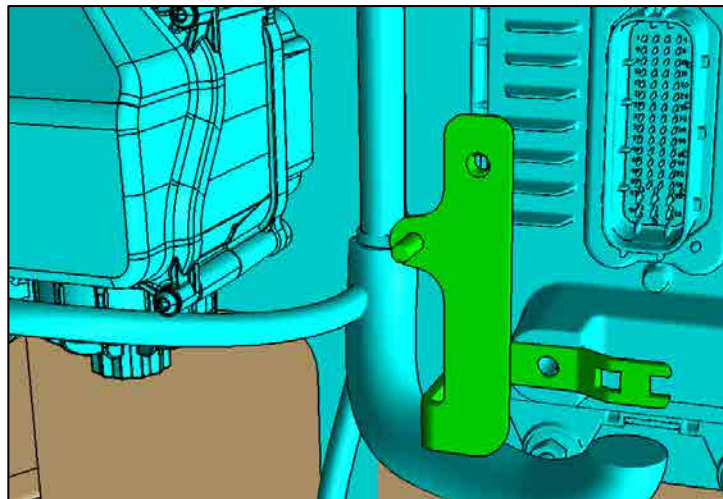


FIGURE 15

29. Install steel wire **504806** on stud and secure with **502854** nut (2X) and washer **500411**.

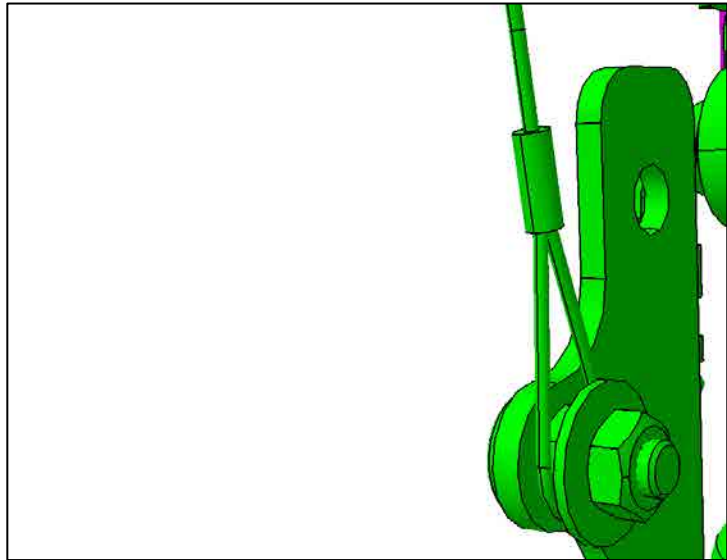


FIGURE 16

30. Install **034001** with **5001857** M6 Stover nut.

31. Add cable tie base **8631155**.

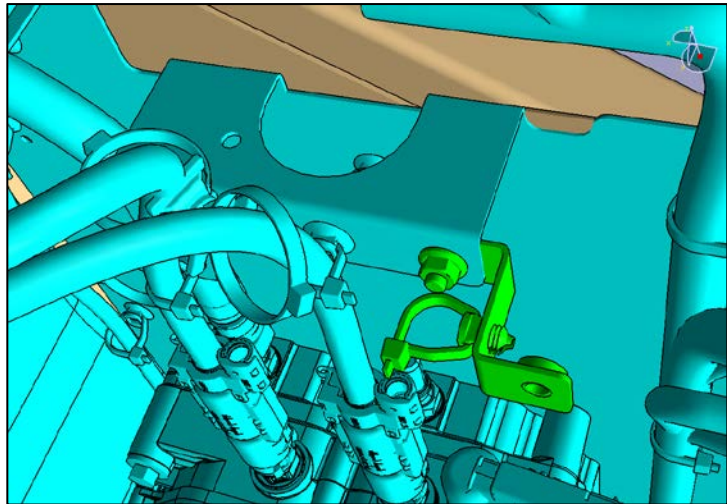


FIGURE 17

32. Install **034008** on harness bulkhead connector behind existing bracket and secure with nut.

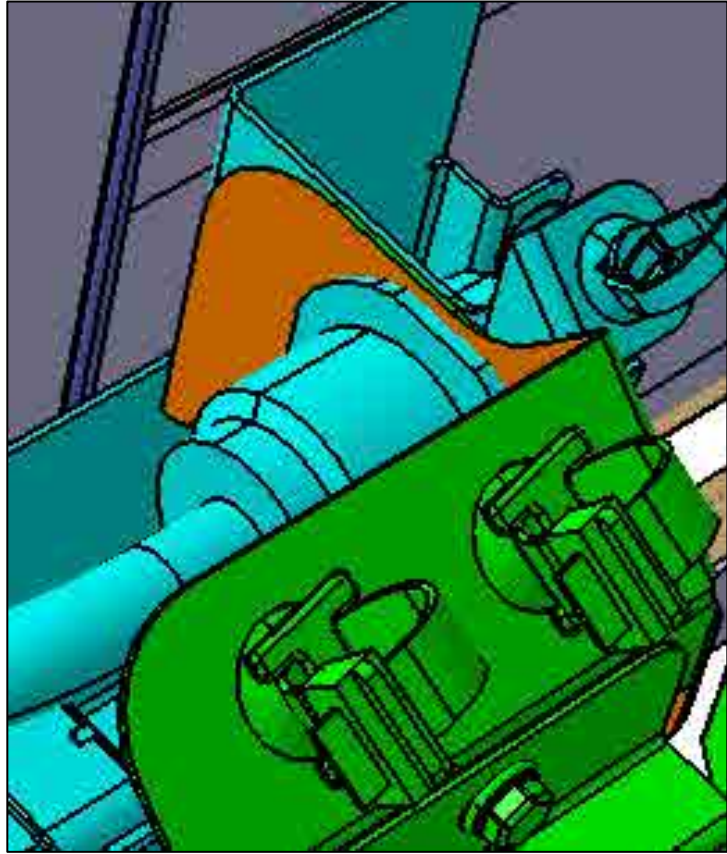


FIGURE 18

33. Add fir tree cable ties **504750**.

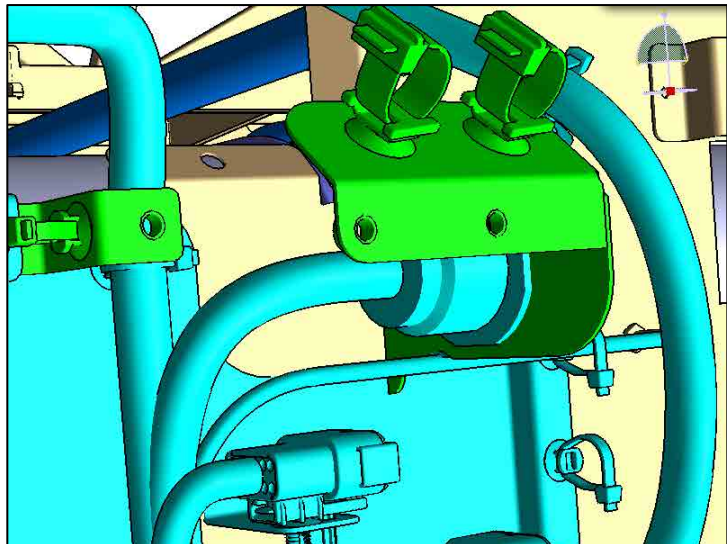


FIGURE 19

34. Install **034002** splash guard with **5001730** M6 x 16mm hex head screws (4x).

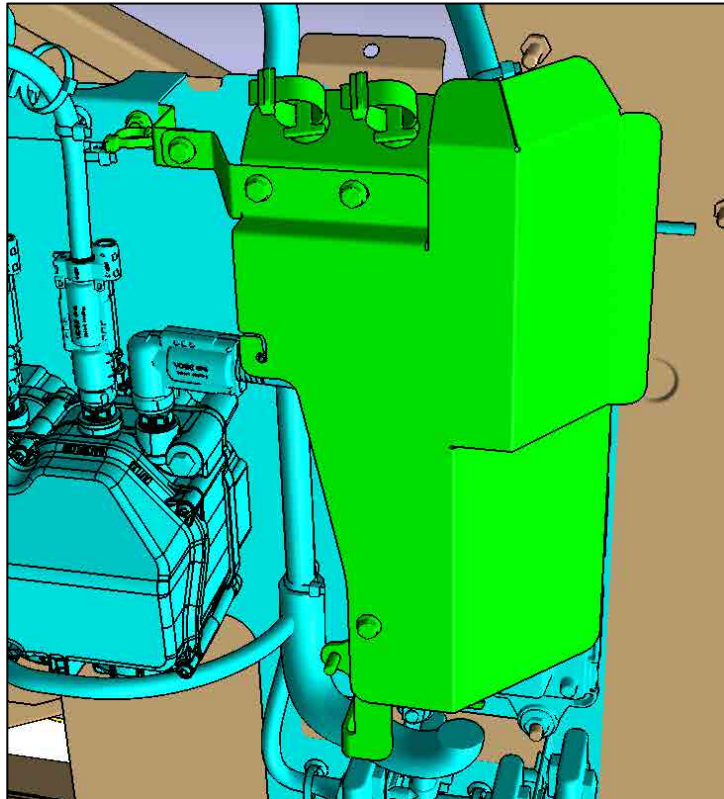


FIGURE 20

35. Next, install support **033997** and clamp **033998** on the tank.
Use M10 X 30 screw **5001741** and hex nut **5001084**.

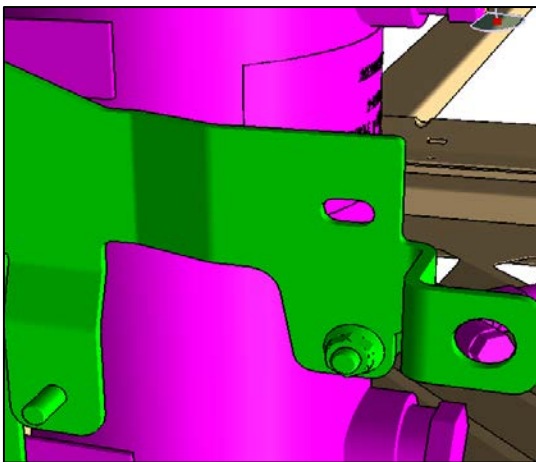


FIGURE 21

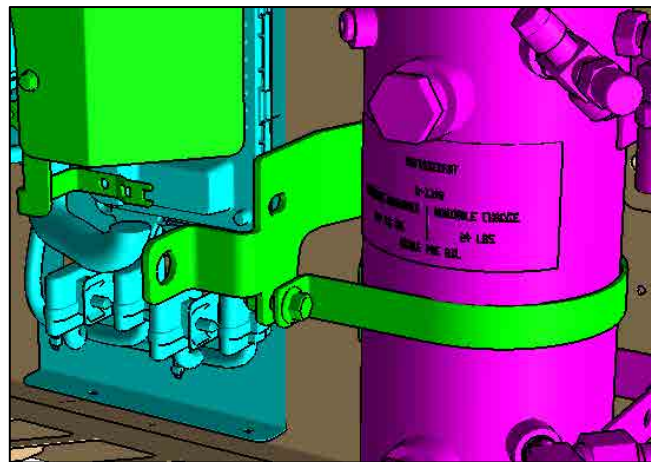


FIGURE 22

Note: On wall side, clamp **033998** is hooked on **033997**.

36. On wall side, place weld stud plate **033999** behind tank bracket and assemble with **5001082** M8 hex nut.

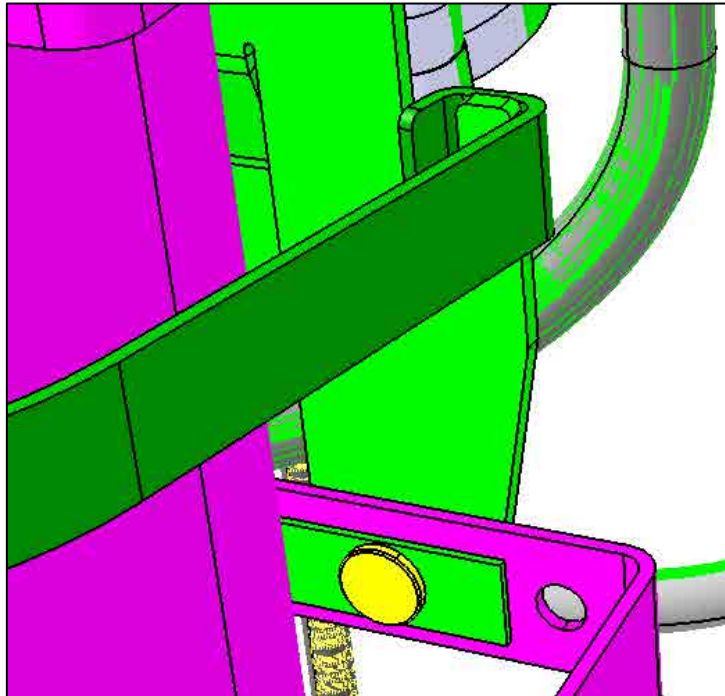


FIGURE 23

37. Secure bracket further on wall side with **5001742** M8 X 30 screw.

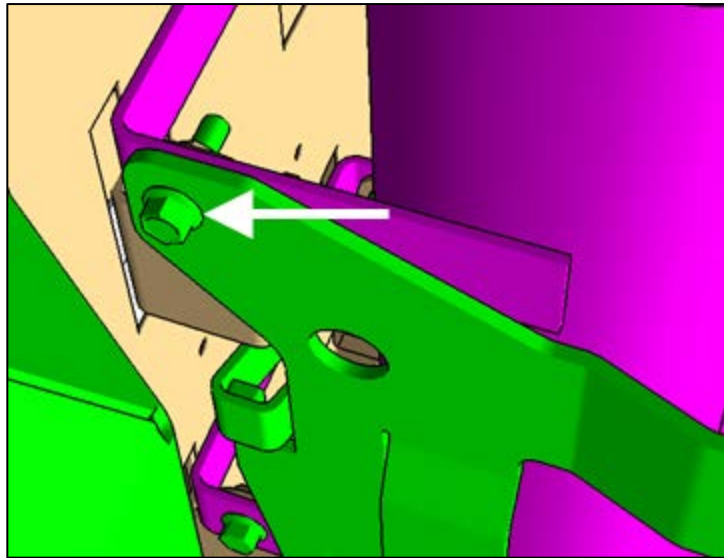


FIGURE 24

38. Next, install **033204** support plate with M10 nut **5001084** (1X).

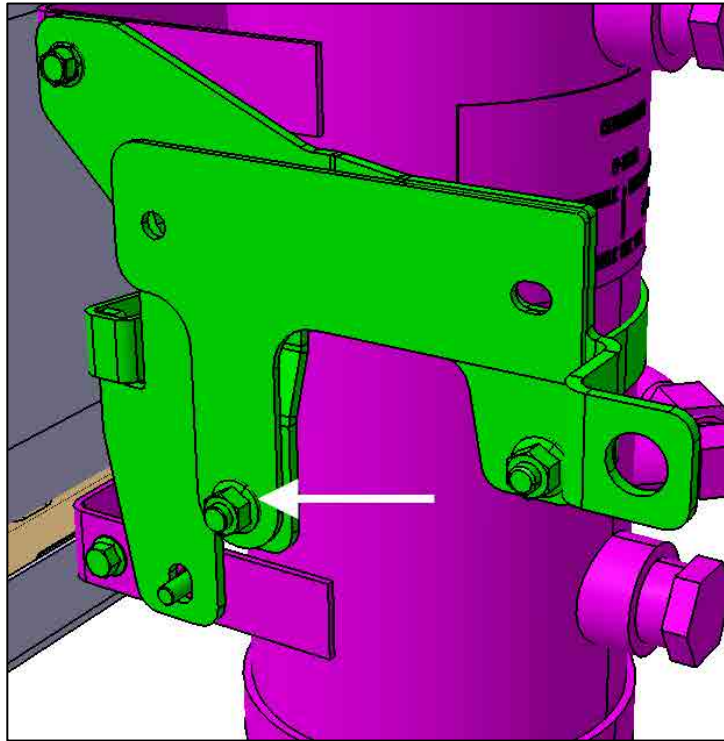


FIGURE 25

39. Secure the Fuel pro assembly on the bracket with **5001741** M10X 30 screw (2X) and M10 nut **5001084** (2X).

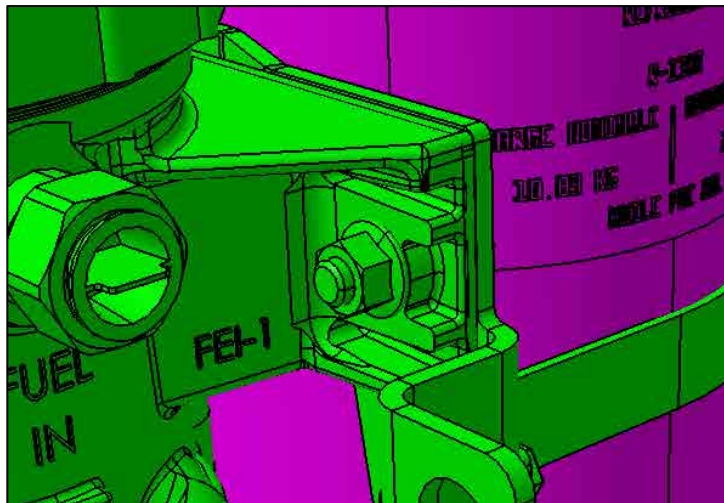


FIGURE 26

40. Assemble bulkhead fitting **501815** on the bracket, connect hose.

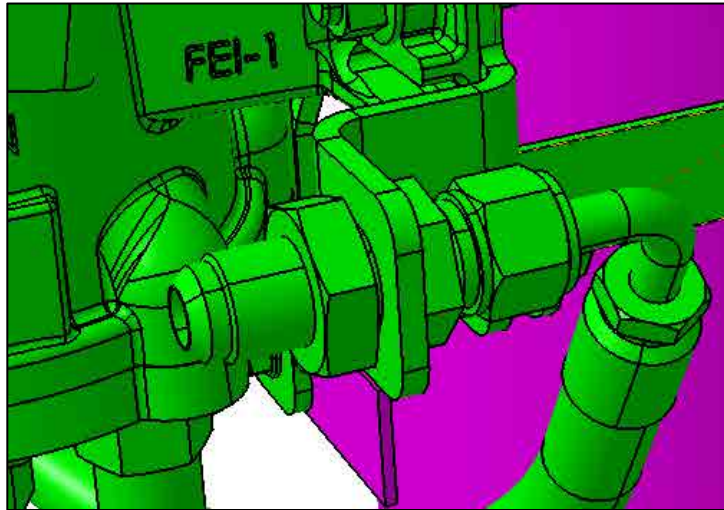


FIGURE 27

41. Connect hose **033209** to other end of bulkhead.

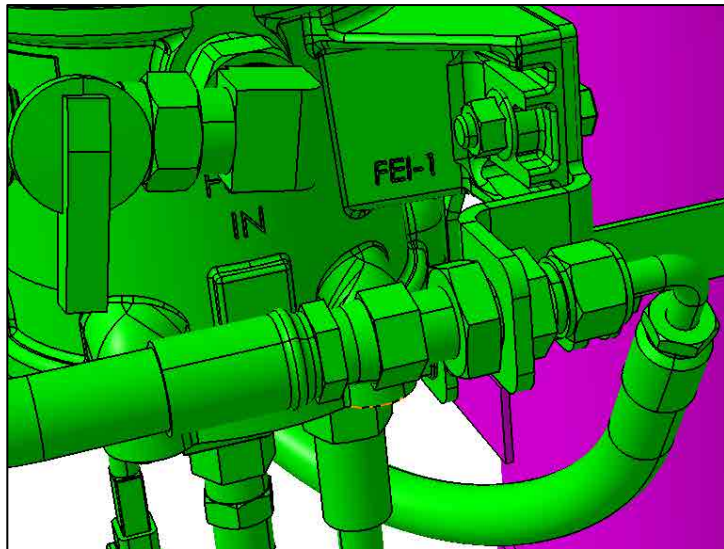


FIGURE 28

- 42. Connect hose **033205** to elbow.
- 43. Protect hoses with double loop cable tie **504768**.
- 44. Connect short hose to fuel tank.

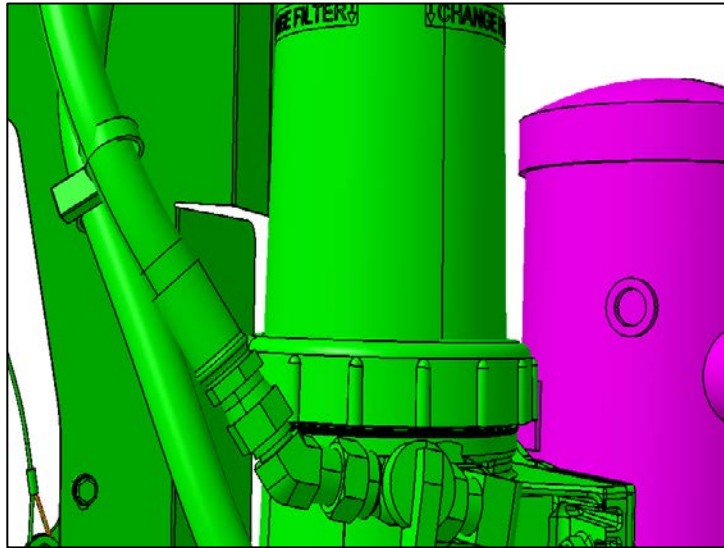


FIGURE 29

VALIDATION

- 45. WIF sensor signal is broadcasted on J1939, PGN 65279 (0xFEFF), SPN 97, SA 0
- 46.

PARTS / WASTE DISPOSAL

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