Instruction Sheet

IS-21070B

OBSOLETE TPMS ANTENNAS REPLACEMENT

Revision: B

ADD PROCEDURE FOR PROGRAMMING

09-18-2024

MATERIAL

Kit # IS21070 includes the following parts:

Part No	Description		Qty
564305	TPMS, ANTENNA SENSATA	0	3
564413	ECU, TPMS SENSATA		1
381044	SUPPORT ECU (BEFORE ELECTRIC FANS)		1
380252	SUPPORT ECU (AFTER ELECTRIC FANS)		1
406762	SUPPORT, FRONT ANTENNA	· · · · · · · · · · · · · · · · · · ·	1
406119	PROTECTOR, FRONT ANTENNA		1
401333	SUPPORT, REAR ANTENNA		2
406764	PROTECTOR, REAR ANTENNA		2

0610632	FRONT JUNCTION BOX TPMS HARNESS		1
504622	GROMMET 1.500X1.750X.0625X.4375X2.125		1
0610631	ANTENNA HARNESS		1
562795	CONNECTOR / JUNIOR POWER TIMER / SH 15C		1
5001182	NUT HEX NYRT SS M6-1		2
502708	SCREW CAP HEX SS M5X35	0	3
5001137	WASHER FLAT SS .203 X. 438X. 06		3
502848	SCREW TC HEX F N500 1/4-20X3/4		4
5001608	WASHER BEL SPRING G500 6.2X15X0.7		4
5001681	SCREW CAP HEX SS M6-1 X 60 LG. PT	Ø	4
500411	WASHER FLAT SS .260 X. 697X. 05		8
502681	NUT HEX NYRT NX500 M6-1.0 G8		4
502868	SCREW TC BDG PH SS410 Z050 10–24 X3/8		2

500804	WASHER FLAT N500 .219X. 500X.049		2
509815	FIR TREE MOUNTING (FT7 TYPE)	Contraction of the second seco	17
504637	CABLE TIE, NYLON BLACK (STD)	G	20
8631155	CABLE TIE WITH TREE MOUNT		2
504013	CABLE TIE MOUNT, BLACK 1/4		2
504347	RIVET POP 3/16 x1/4 AL		2
IS-21070	INSTRUCTION SHEET		1
FI-21070	FEUILLE D'INSTRUCTION		1

You need to order the valve and the sensor separately one kit per wheel.

Part No	Description	Qty
564307	TPMS WHEEL SENSOR SENSATA	1
651200	SCREW MA TO AD M6X10 SENSATA	1
651198	VALVE, STEEL WHEEL 9"	1

Kit # 150201 (aluminum wheel 9") includes the following parts:

Part No	Description	Qty
564307	TPMS WHEEL SENSOR SENSATA	1
651200	SCREW MA TO AD M6X10 SENSATA	1
651196	VALVE, ALUMINUM WHEEL 9"	1

Kit # 150149 (aluminum wheel 10.5") includes the following parts:

Part No	Description		Qty
564307	TPMS WHEEL SENSOR SENSATA		1
651200	SCREW MA TO AD M6X10 SENSATA		1
651195	VALVE, ALUMINUM WHEEL 10.5"	C.C.	1

Kit # 150177 (aluminum wheel 14") includes the following parts:

Part No	Description	Qty
564307	TPMS WHEEL SENSOR SENSATA	1
651200	SCREW MA TO AD M6X10 SENSATA	1
651194	VALVE, ALUMINUM WHEEL 14"	1

Other parts that may be required:

Part No.	Description		Qty
684517	GLUE SIMSON ISR 70-03 GREY, CART 290ML	20 TH FEE	1
680038	LOCTITE 243 50 ML.		1
685324	DIELECTRIC GREASE 3 OZ TUBE		1
568103	EXTRACTION TOOL FOR MCP 2.8 CONTACT		1

NOTE

Material can be obtained through regular channels.

SAFETY PRECAUTIONS

- Eye protection should always be worn when working in a shop.
- Rules for Personal Protection Equipment should always be respected. Wear your PPE including but not limited to the following:



PROCEDURE

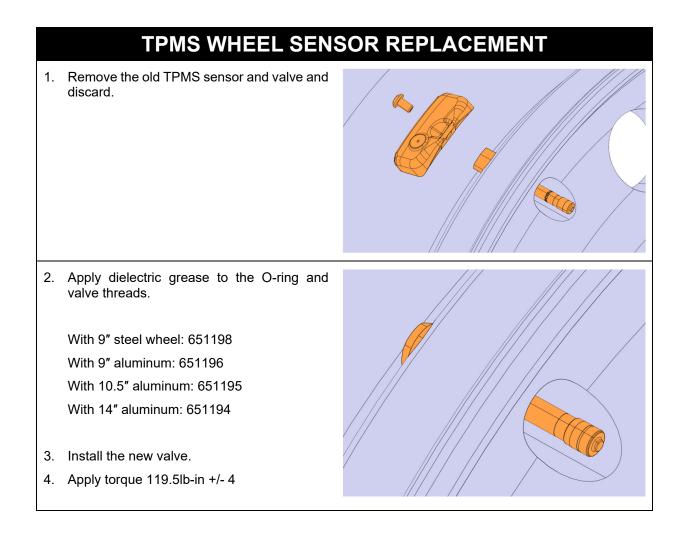


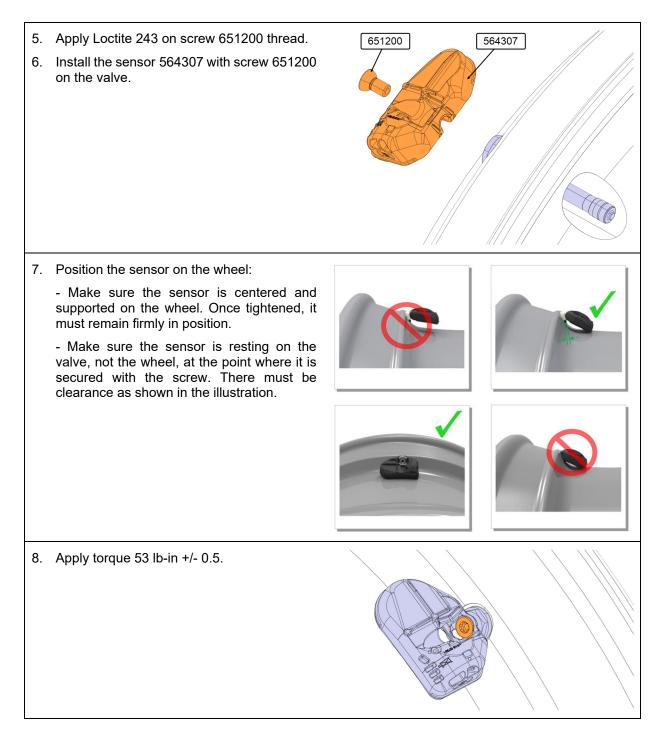
Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

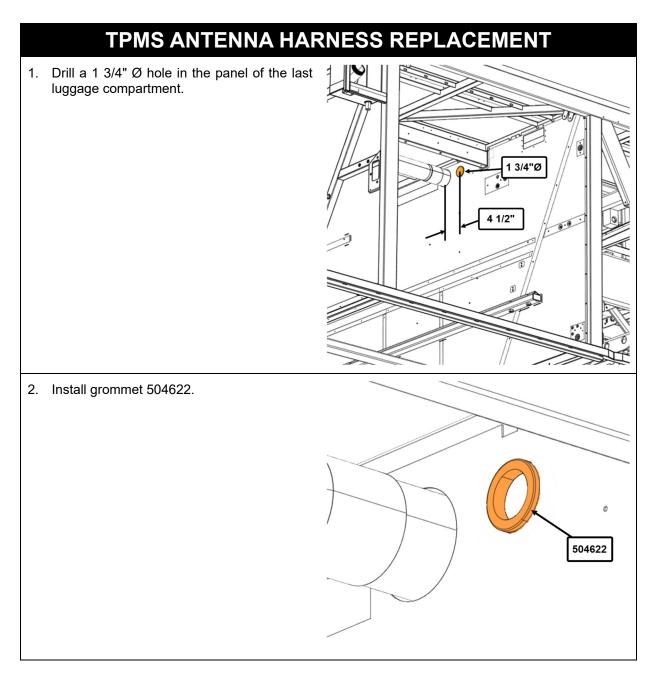
Lock out & Tag out (LOTO) must be performed during set-up, maintenance or repair activities. Refer to your local procedure for detailed information regarding the control of hazardous energy.

Table of contents

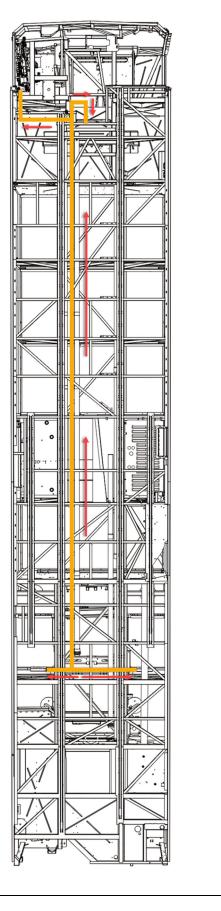
1
7
9
12
15
20
23
25
27
28
34
35
-

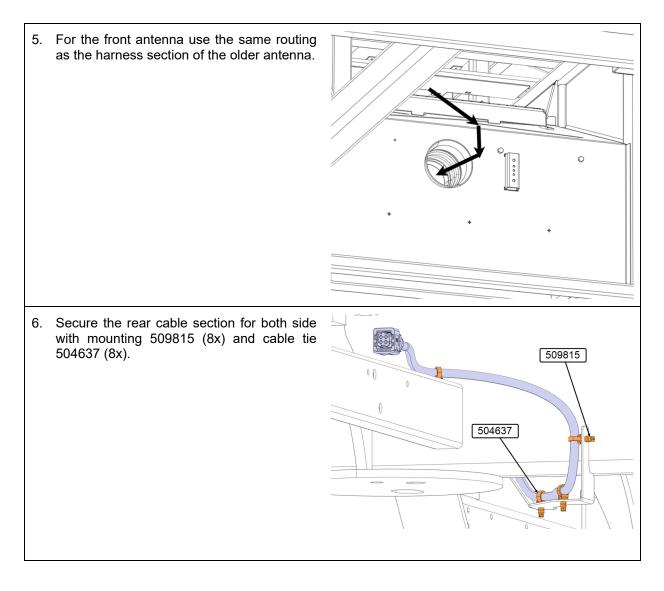


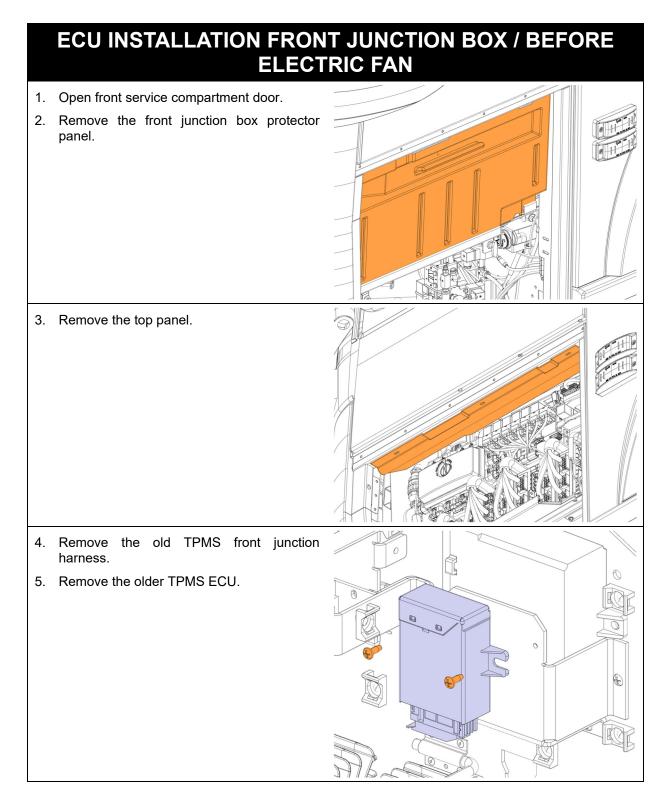


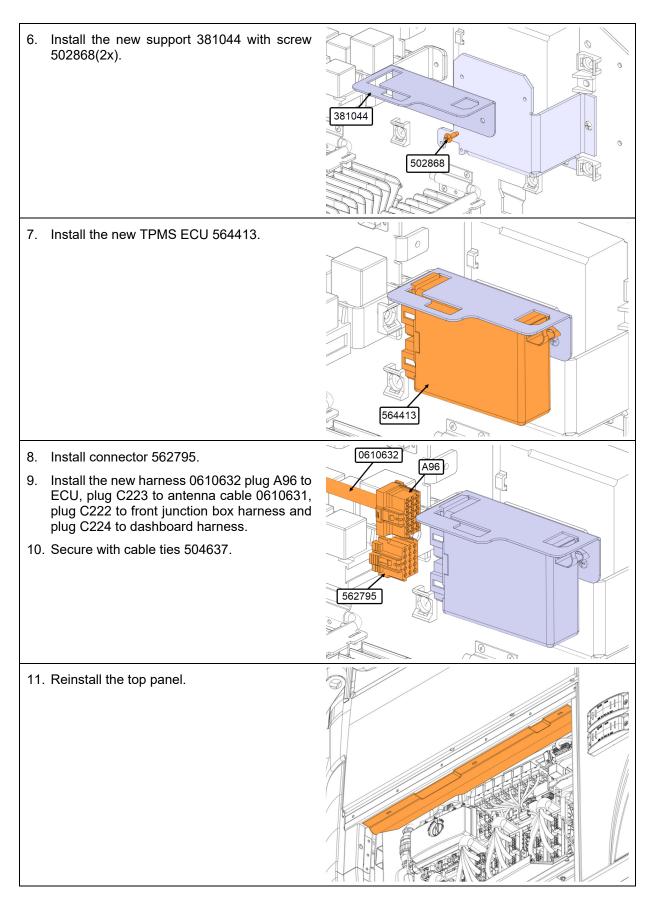


- 3. Install the new antenna harness 0610631 following the routing. You must start from the back of the vehicle to the front. Only the connector for the front antenna and front junction box pass into the grommet.
- 4. Use a fish tool to reach the front junction box and front spare compartment.

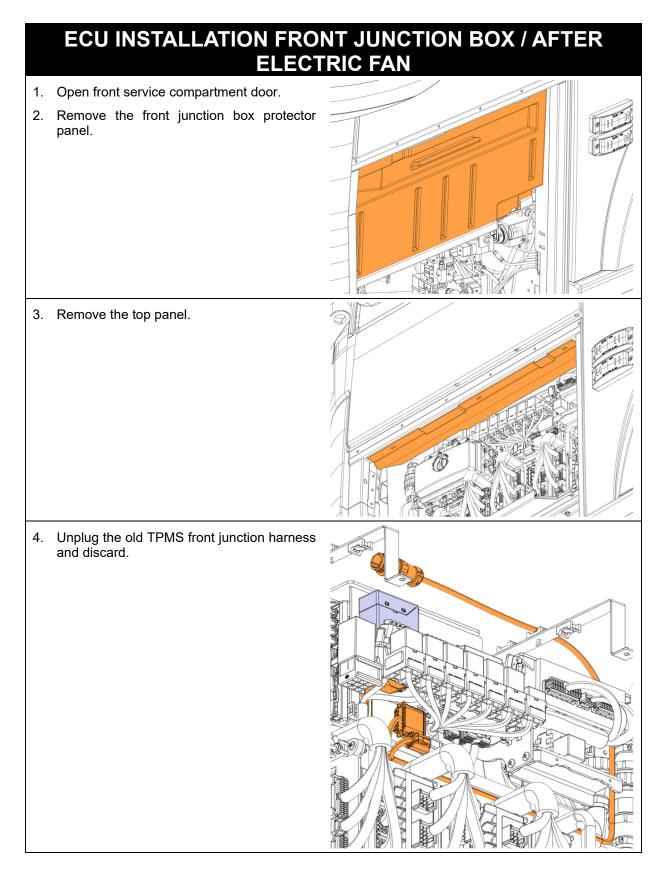


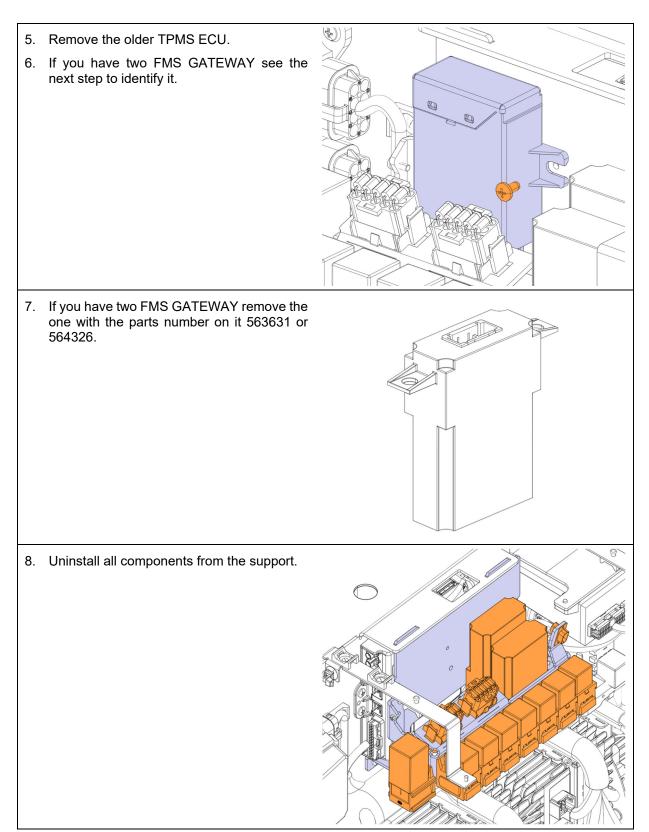


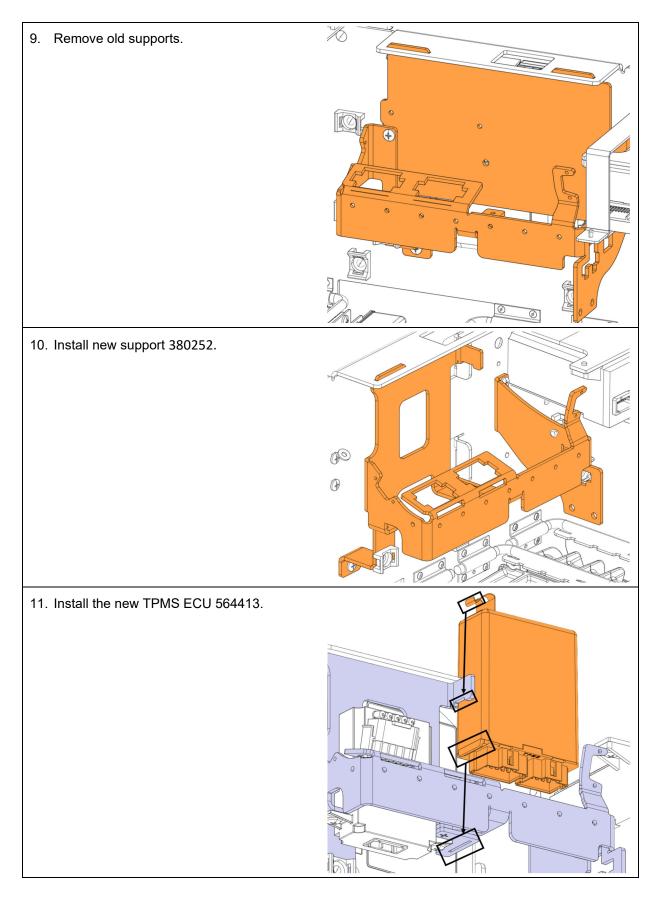


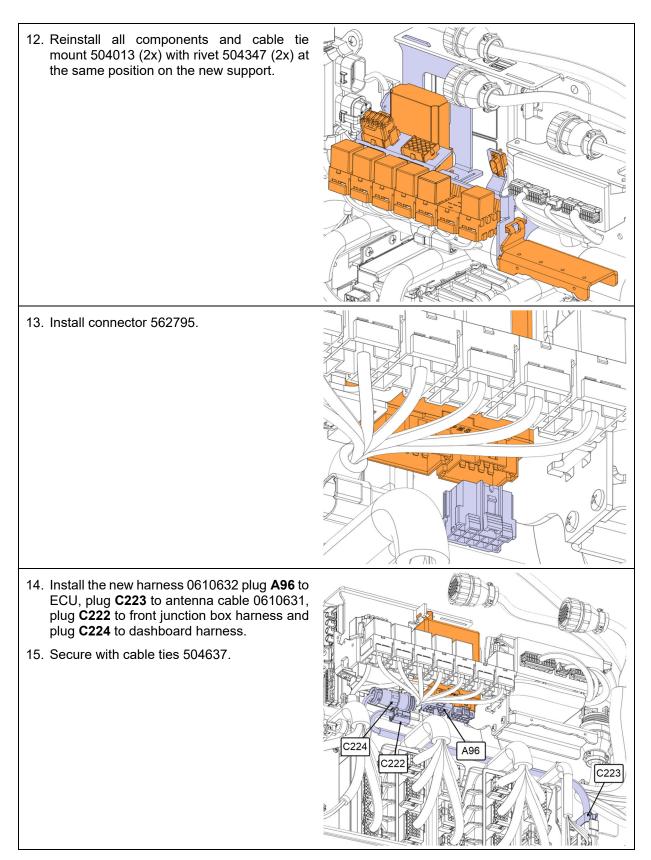


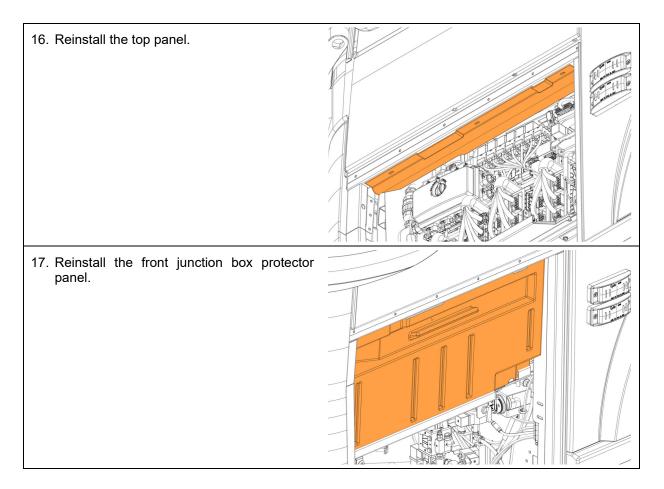
12. Reinstall the front junction box protector panel.

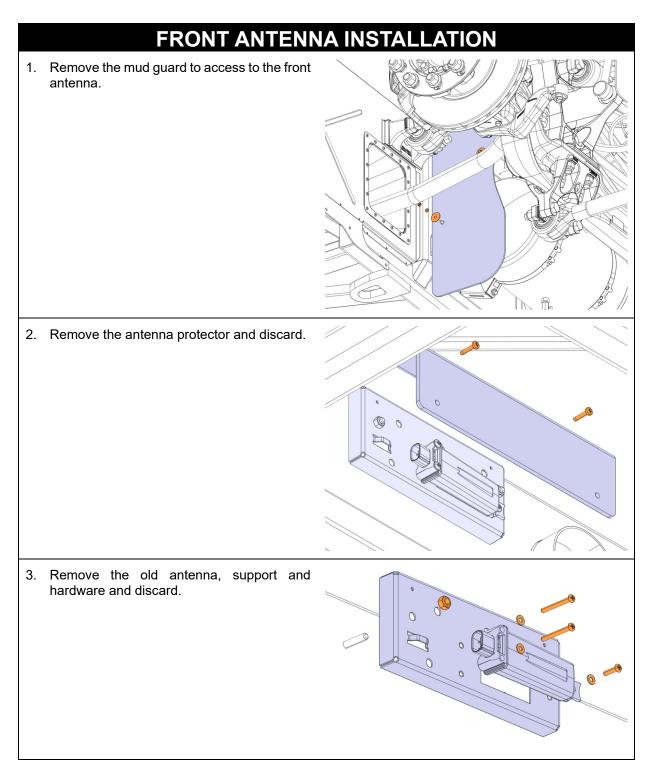


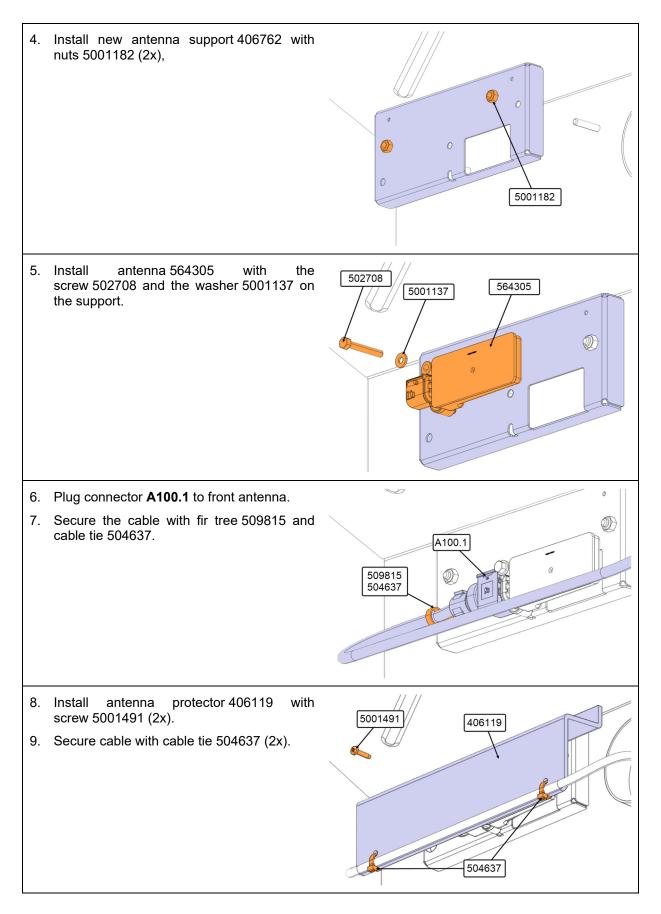


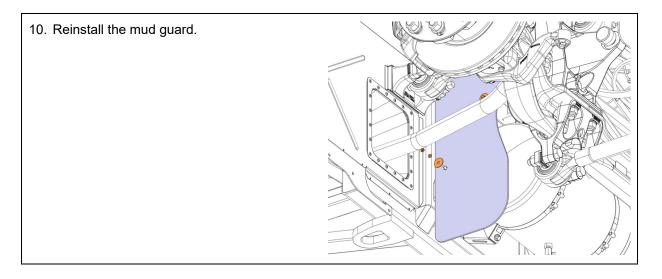


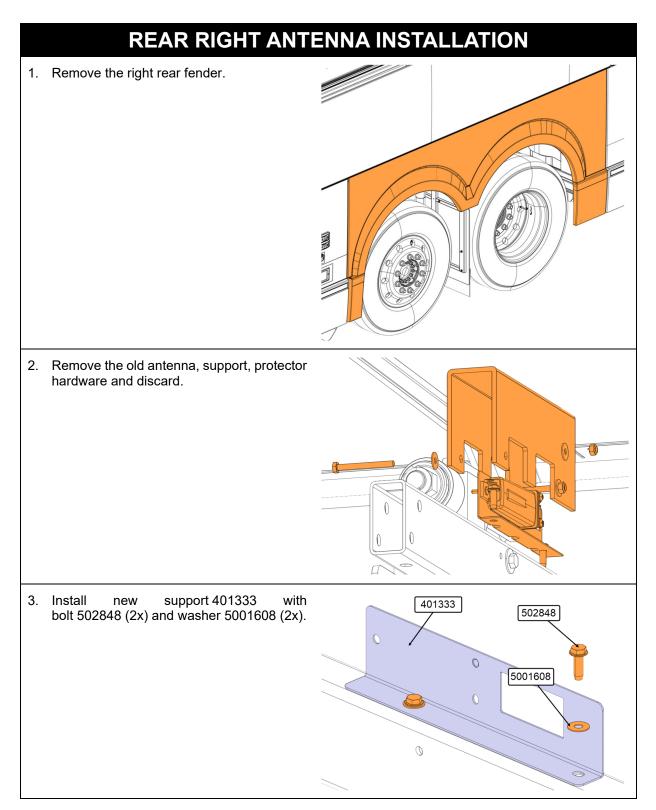


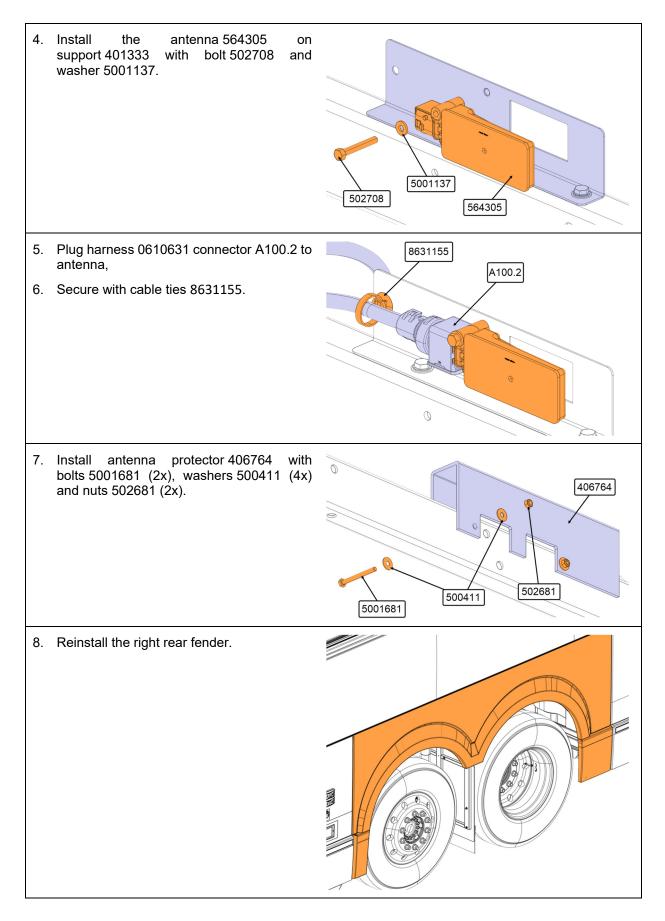


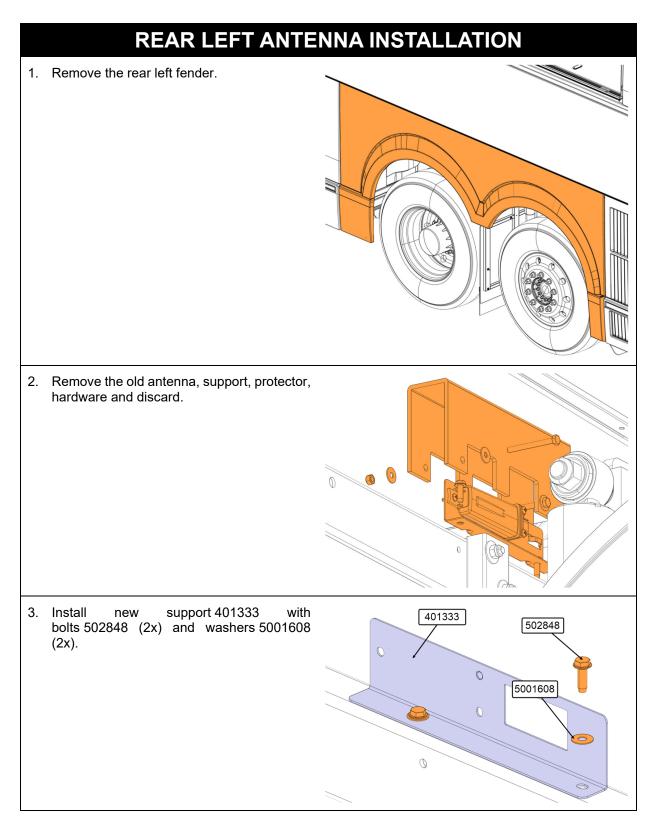


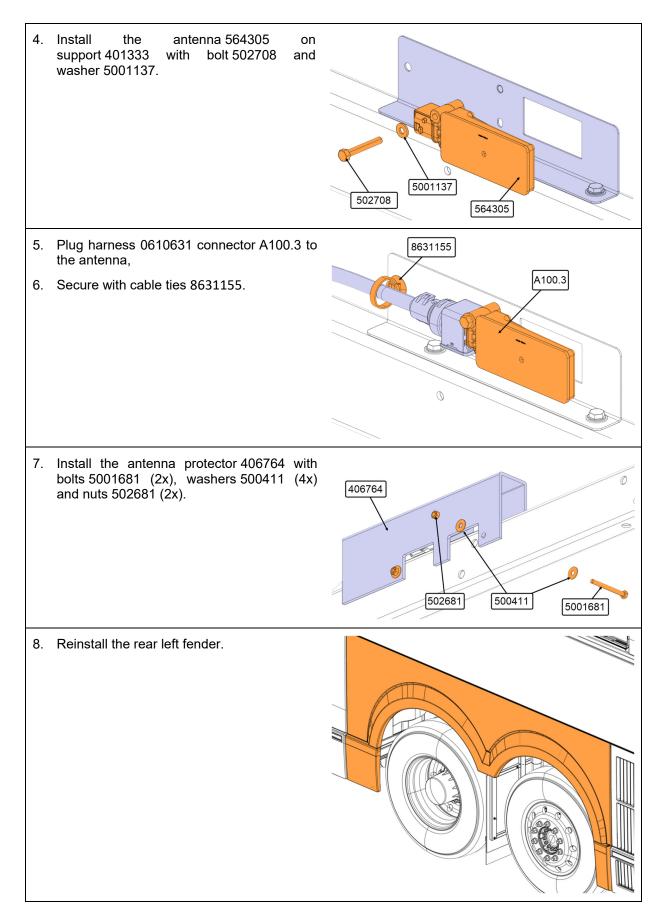


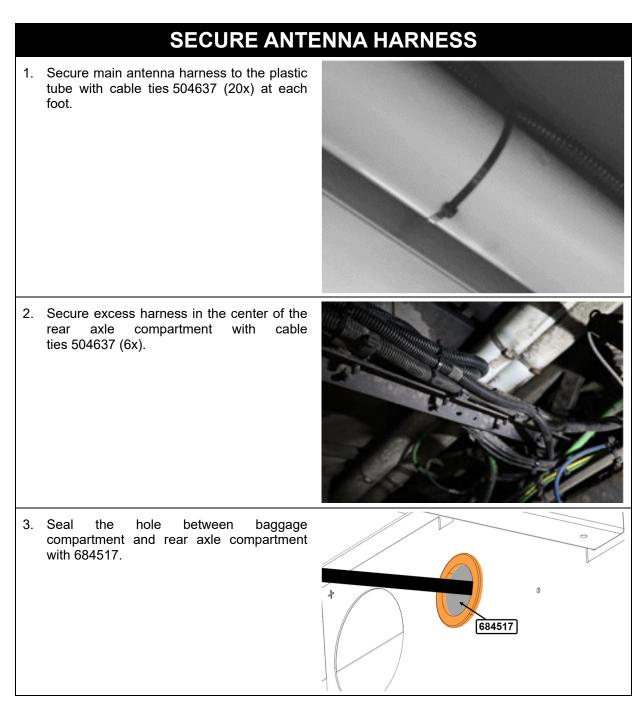












1

VEHICLE PROGRAM

- For all vehicles built before X3-45 J-6284, H3-45 J-0184, VIP-45 K-0604 and X3-45 VIP K-6439 you need a special program, Contact your Prevost representative for more information.

- For all vehicles built after X3-45 J-6285, H3-45 K-0185, VIP-45 K-0605 and X3-45 VIP K-6440 you must verify the revision number of your vehicle program and if need it change it.

VERIFICATION OF THE VEHICLE PROGRAM REVISION NUMBER

Display Settings

- 1. Check the vehicle program revision number with the Driver Information Display (DID) in the dash.
- 2. Select the Diagnostics menu.

3. Select Part Number menu.

4. Select Electrical System menu.

Diagnostics Pre – Trip Assistant Datalog Aftertreatment Password Prevost Liaison	
(iii)	189.8km
FIGURE 1	
Diagnostics View Active Faults & View Inactive Faults Cluster Selftest Part Number & Reset Inactive Faults Vehicle Tests	4/6
(m) 💼	189.8km

FIGURE 2

Diagnostics	4/7
Part Number	
Engine ECU	
Instrument Cluster	
Vehicle ECU	
Electrical System	
Aftertreatment ECU	
Battery Monitor ECU	
Brake ECU	
6	189.8km
	109.0Km

- 5. The DID shows the software number (program number) and the actual revision number just after the letter "P" for the vehicle. The example in Figure 4, the program number is 06100123 and the actual revision number is P08.
- 6. Note the program number and the revision number.

NO	TE			
Be	careful,	the	vehicle	program
nun	nber starts	with	''06''	

- 7. Table 1 shows possible program numbers and the corresponding minimal revision number (PXX) needed.
- **8.** Compare the vehicle program number and revision number (PXX) shown in the DID with the corresponding numbers in Table 1.
- If the vehicle has already the revision number (PXX) shown in Table 1 corresponding to the program number or a higher corresponding revision number, the bulletin is complete. Having a higher revision number means, the problem has been resolved.
- 10. If the vehicle needs a program upgrade, move to the next section of the bulletin.

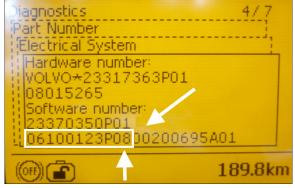


FIGURE 4

POSSIBLE PROGRAM NO.	MINIMAL REVISION NO. NEEDED
06100111	P37
06100113	P28
06100122	P41
06100123	P37
06100124	P42

VEHICLE PROGRAM UPGRADE PROCEDURE

VEHICLE PROGRAM UPDGRADE PROCEDURE FOR PREVOST SERVICE CENTER ONLY

- 11. Upgrade the program with the usual procedure.
- 12. Bulletin is complete.

NOTE

Some owners make the vehicle program update by their own, but it is recommended to let a Prevost service center to make the work.

For owners whom want to proceed on their own, move to next step.

SPECIAL TOOL REQUIRED TO UPGRADE PROGRAM

PART NO.	DESCRIPTION	QTY
N/A	LAPTOP	1
N/A	RS232 SERIAL INTERFACE CABLE	1
N/A	VIRTUAL SERIAL PORT ADAPTER USB TO RS232	1
066009	INTERFACE HARNESS DB9 PC/MASTER ID-MU	1

VEHICLE PROGRAM UPDGRADE PROCEDURE FOR OWNERS ONLY

- 13. Make sure you took note of the vehicle program number and the revision number (PXX).
- 14. Contact your Prevost Service representative to generate the vehicle program upgrade file.
- 15. Refer the personal for the procedure shown bulletin SCI19-20, of how to send you the file.
- 16. Connect the 110 power line on the vehicle.
- 17. Turn the ignition to "ON" position.
- 18. Activate the Hazard flashers.
- 19. Locate the RS232 serial port into the front service compartment at the right top corner.



FIGURE 5

- 20. Remove the cap and keep in a safe place.
- 21. Connect the computer on the vehicle into the RS232 port.
- 22. Open the computer management application on your computer.
- 23. Right click on "My Computer" on the desk and click on Manage menu.

- 24. Click on "Device manager".
- 25. Expand the ports list.
- 26. Check the COM port number and note the number.



FIGURE 6

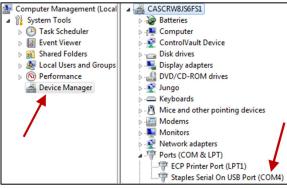
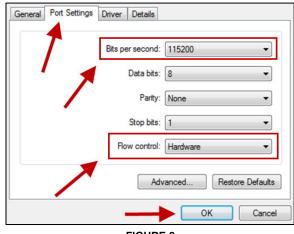


FIGURE 7

- 27. Double click on "COM" element to open the properties dialog box.
- 28. Click on "Port Setting" tab.
- 29. Select 115200 for the Bits per second.
- 30. Select Hardware for the Row control.
- 31. Click "OK".



- 32. Make sure you have the vehicle program update, supplied by the Prevost service center, on your computer.
- 33. Rename the file and remove the last digits ".txt". Keep only the extension ".exe"

NOTE

The name of the file that you received should match with the VIN of the vehicle you are about to update. It should look like this example: MP_0014**2546**A06.exe.txt. The four numbers before the last letter are the last 4 numbers of the VIN (short VIN).

- 34. Launch the vehicle program (double click on the file name or right click on the file name and select Open).
- 35. Select the port number noted before.
- 36. Click "Continue" button.
- 37. Select the destination of the backup file that will be generated with the update processing.
- 38. Click on "Continue" button.
- 39. Program processes.





FIGURE 9

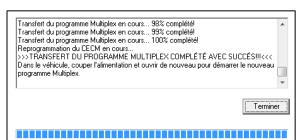
Entrer un port de communication valide p Validation du port de communication CO Validation et configuration du port de co SVP, Entrer un répertoire valide pour l'er	44 nmunication cor	mplétées	
			-
C:\Users\ub60052\Desktop		Explorer	Continuer

FIGURE 10

Lecture du programme Multiplex en cours 50% complété!	
---	--

FIGURE 11

- 40. Wait until you get the message "TRANSFER COMPLETED".
- 41. Click "Finish" button.



- 42. Disconnect the computer.
- 43. From the rear electrical compartment, trip circuit breaker CB6 and reset after 5 seconds.
- 44. The system needs some time to complete the update. Wait until the head lights shut down or until you have access to information on the DID.
- 45. Check in the DID the Software number (program number) and compare again with the table 1.

NOTE

Be careful, the vehicle program number starts with ''06''

- 46. Reinstall the RS232 serial port cap.
- 47. Bulletin is complete.

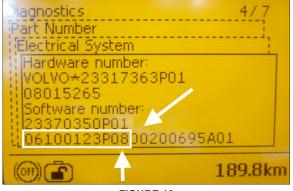




FIGURE 14

SETTING TPMS SENSORS

Setting The On-Screen TPMS

- Learn Wheel ID

This menu allows learning new wheel sensors ID. The user can learn only one wheel, several wheels or all wheels of the vehicle. The sequence automatically jumps to the next wheel such that a user can initiate all wheels without having to come back to the display between each wheel.

The display uses a pressure change as the criteria to recognize which wheel sensor the operator wants to get assigned to a given location. The amount of pressure change required is established at 2 PSI.

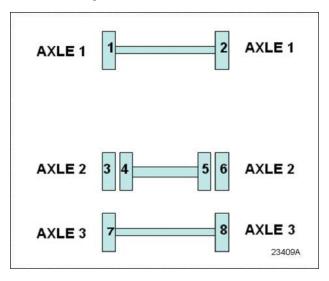
A pressure change of about 3 PSI is needed to wake up a sensor and then an extra amount of pressure change of 2 PSI is needed to trigger the display. The operator has to create a pressure change by at least 6 PSI and then wait for the display to recognize the pressure change. The wait time corresponds to the sensor sampling rate.

When entering the menu, the axle 1, wheel 1 is selected by default as a starting point for the learning. The user can select another axle with +/-

, move the cursor to the wheel number with the right arrow and select another wheel with the +/- or move the cursor down to the start learning button.

After the start learning button is selected, the display stores the first transmission it gets from each sensor ID into the "initial pressure" for that sensor ID. Then it compares each subsequent pressure received for that sensor ID with the initial one and when the comparison shows a delta pressure exceeding the defined level required, this sensor ID is assigned to the selected tire location.

Once a wheel ID has been assigned, the display increments the number of wheels done and it moves to the next axle/wheel in the sequence, waiting for another sensor to come up with a pressure change. Within one learning session, the display remembers which sensor has been assigned and it will not assign it twice. The sequence increments the display of the next wheel on the same axle, counting wheels from left to right, and then moves to the next axle, counting axles from front to rear.



It activates the next wheel parameter each time a wheel is done. This setting is integrated with the vehicle electronic, activating an audible signal on the vehicle, thus providing feedback to the user that he can move on to the next wheel.

The spare tire can be done by selecting the axle/wheel "spare" which is internally encoded to 15:1.



PARTS / WASTE DISPOSAL

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