

FT4690R2 Hydraulic level sensor defective

Technical writer name
Devanand

Manual section 09

First Level Parts (100% of 138 vehicles)		
Material	Part Number	QTY
PLUG M-NPT-1/4	0444620	1
3 PIN WITH SHRINK BOOT	N31229-04	1
SECONDARY LOCK	N25892-03	1
PLUG SEALING DEUTCH CONN	562288	3
TIE TEUFEL CABLE TIES	N56339	1

Nb hours Level 1 0.25 hr MQR 7621-1684

Disposal of parts		
Removed parts are:		
Discarded	Retained	
X	-	When the retained check box is checked, the parts must be retained and returned in accordance with the usual warranty procedure to be reimbursed.

Shop Supply (100% of 138 vehicles)		
Material	Part Number	QTY
TUBING HEATSHRINK DUAL WALL	N82227-13	60 mm
LOCTITE THREAD SEALANT WHITE	N37086	2 ml
LOCTITE ACTIVATOR 7649	N8905622	0.075 oz

Note:
N82227-13 (TUBING HEATSHRINK DUAL WALL)
 1 ea = 4 ft (1219.2 mm)
 60 mm/bus
 8280 mm/138 buses
 6.79 ~ 7 tubes for the entire campaign

N37086 (LOCTITE THREAD SEALANT WHITE)
 1 ea = 248.418 ml
 2 ml/bus
 276 ml/138 buses
 2 tubes for the entire campaign

N8905622 (LOCTITE ACTIVATOR 7649)
 1 ea = 4.5 oz
 0.075 oz/bus
 10.35 oz/138 buses
 3 tubes for the entire campaign

Client	Order	Road numbers	VIN		QTY	Lang.	Customer	Target market	Plant	Config moteur	Model	NR	R1	R2	R3
Burlington - Ontario	LB35	7033-18	7036-1	L82J9J3751432	L82J0J3751433	2	E	Metrolinx	CA	STE	TD	40	x	x	x
Burlington - Ontario	LC18	1901	1907	L82J9K3752095	L82J0K3752101	7	E	metrolinx	CA	STE	TD	40	x	x	x
Houston - Texas	LB63	2050	2050	L82K2J9776708	L82K2J9776708	1	E	Us-Prv	US	PLB	TD	40	x	x	x
Houston - Texas	LB72	2051	2069	L82K6J9776887	L82K4J9776905	19	E	US-Prv	US	PLB	TD	40	x	x	x
Houston - Texas	LC55	2070	2079	L82KXK9777378	L82K0K9777387	10	E	US-Prv	US	PLB	TD	40	x	x	x
Oakville - Ontario	LA55	—	—	L82J6H3750880	L82J5H3750885	6	E	Metrolinx	CA	PLB	TD	40	x	x	x
Oakville - Ontario	LB93	—	—	L82J3K3751749	L82J5K3751753	5	E	-	CA	STE	TD	40	x	x	x
Oakville - Ontario	LC57	—	—	L82J6K3752121	L82J5K3752126	6	E	Metrolinx	CA	STE	TD	40	x	x	x
Ottawa - OC Transpo	LB80	4601	4609	L82J0J3751576	L82J3J3751586	9	E	-	CA	STE	TD	40	x	x	x
Ottawa - OC Transpo	LC16	4610	4682	L82J7K3751771	L82JXK3751912	73	E	-	CA	STE	TD	40	x	x	x

Jean-Nicolas Fournier

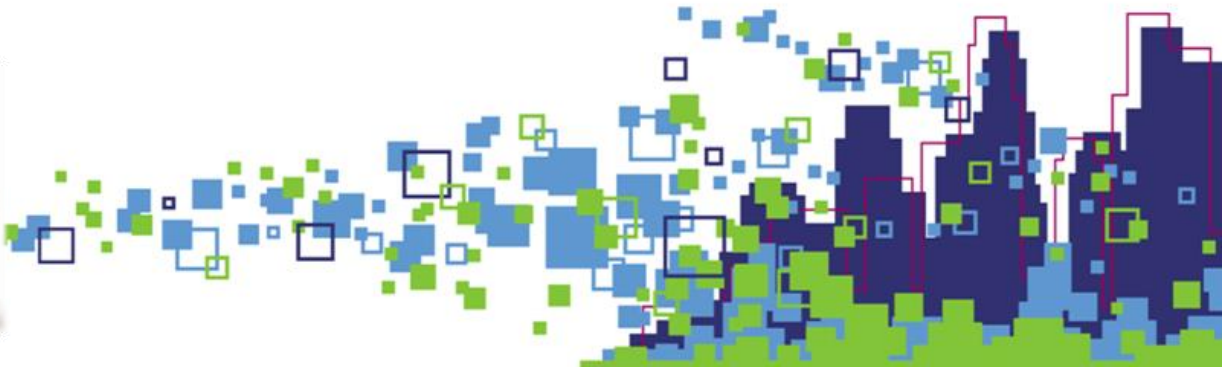
Digitally signed by Jean-Nicolas Fournier
 DN: cn=Jean-Nicolas Fournier, o=Nova Bus,
 email=jean-nicolas.fournier@nova.com, c=CA
 Date: 2020.10.08 11:06:00 -0400

MQR 7621-1684

Removal Of Hydraulic Oil Level Sensors

➤ Field Instructions

18/07/2019





WARNING : Follow your internal safety procedures.

A) VEHICLE PREPARATION

STEPS:

1. Park the vehicle on an even surface with transmission on neutral (N) and apply the parking brake.
2. Set the Master Control Switch in STOP position (see figure 1).
3. Before starting any work on the vehicle, make sure that the vehicle is completely and securely stationary.
4. Disconnect the starting circuit on the control box at the rear of the vehicle and place the battery disconnect switch in OFF position.

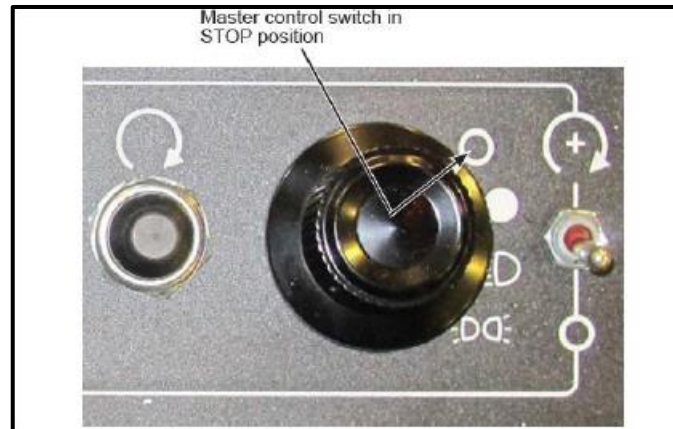


Figure 1 – Master Control Switch in STOP Position

MQR-1684 - Bill Of Materials

Items required for removal of hydraulic oil level sensor

DEUTSCH (DT series) Connector

	ITEM	NOVA PN	MFG PN	DESCRIPTION	MANUFACTURER	QUANTITY	COMMENTS
BRASS PLUG	1	-	0444620	PLUG M-NPT- 1/4	PARKER	1	HYDRAULIC TANK
	2	N37086	56541	THREAD SEALANT WHITE	LOCTITE	2 ml or 1 Tube per 125 Buses (250 ml/Tube)	FOR THE THREAD PLUG
CAPPING CONNECTOR	3	N31229-04	DT06-3S-E008	3-WAY CONNECTOR WITH BOOT ADAPTER	DEUTSCH	1	MATING PLUG
	4	N11681	114017	SEALING PLUG - DEUTSCH	DEUTSCH	3	WITH MATING PLUG
	5	N25892-03	W3-S	SECONDARY LOCK - DEUTSCH	DEUTSCH	1	WITH MATING PLUG
SHRINK	6	N82227-13	ATUM-24/6-0-STK	TUBING HEATSHRINK DUAL WALL	TE CONNECTIVITY	40mm	
ZIP-TIE	7	N56339	T120R6TZK2	TEFZEL CABLE TIES	HELLERMANN TYTON	1	TO ATTACH MATING CONNECTOR
ACTIV.	8	-	21348	LOCTITE SF 7649 PRIMER 4.5OZ.	HENKEL	0.09 Oz	1 Can per 60 buses

MQR-1684 – Hydraulic Sensor Location

Engine compartment

Field Instructions

Steps :

1. Open the engine compartment rear door to access the hydraulic tank (see figures #2 and #3).
2. Disconnect the hydraulic oil level sensor electrical connector (see figure #3).



Figure 2 – Rear Door Compartment

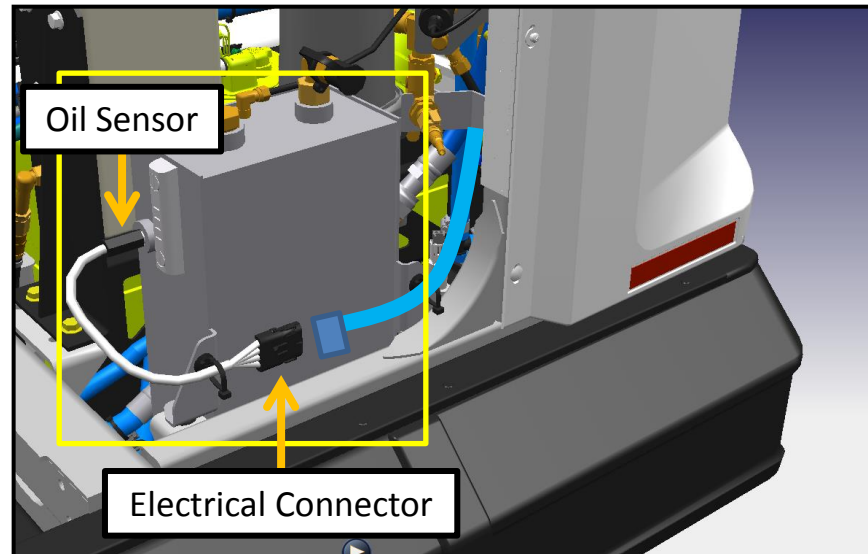


Figure 3 – Hydraulic Tank Location

MQR-1684 – Removal of the Hydraulic Oil Level Sensor

Hydraulic tank modification

3. Spray on an even amount of Loctite Thread Activator 7649 onto the threads of the brass plug (P/N 0444620). Allow to air dry. Next, apply a bead of Loctite 565 thread sealant (P/N N37086) onto male threads of hex head brass plug (P/N 0444620) starting two threads from the end (see figure #4).
4. Unscrew and remove the oil sensor from the hydraulic oil tank (see figure #5). (Return the removed hydraulic oil level sensor wire kit to Prevost.)

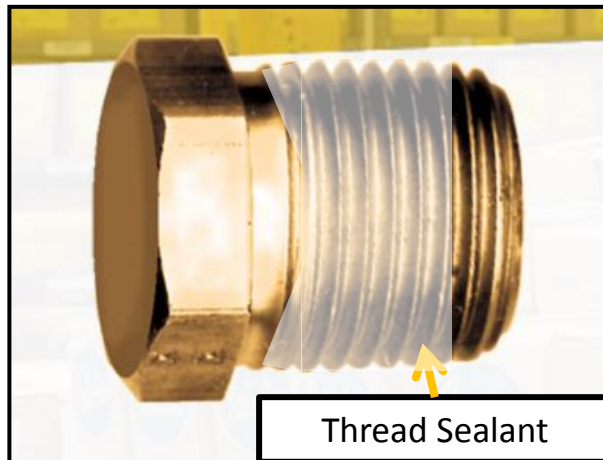


Figure 4 – Hex Head Plug

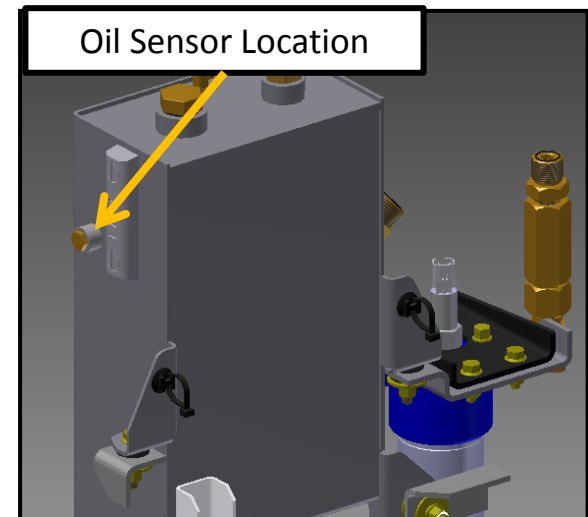


Figure 5 – Hydraulic Oil Tank

MQR-1684 – Removal of the Hydraulic Oil Level Sensor

Hex head plug installation

5. Use a clean rag or cloth to catch any fluid that may escape the hydraulic oil tank sensor threaded hole.
6. Immediately insert hex head brass plug into the hole and quickly fasten it finger tight (see figure #6).
7. Torque to 2 turns past finger tight using an appropriate wrench.
8. Apply torque seal bead once tightened.

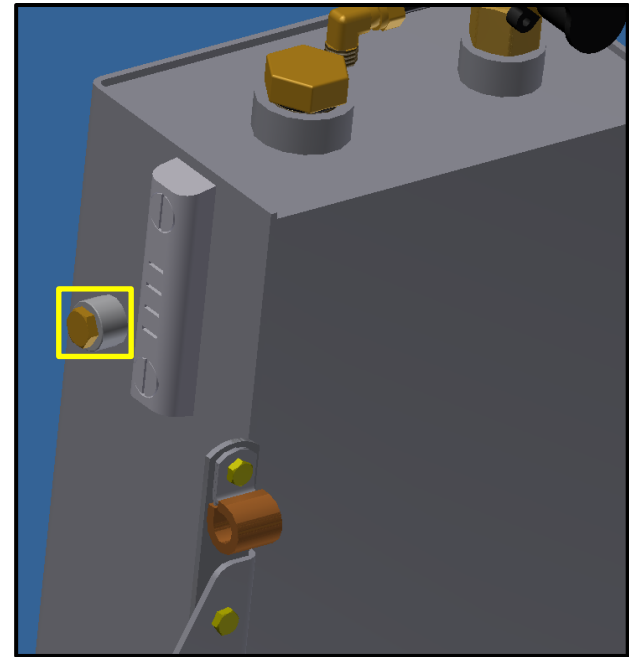


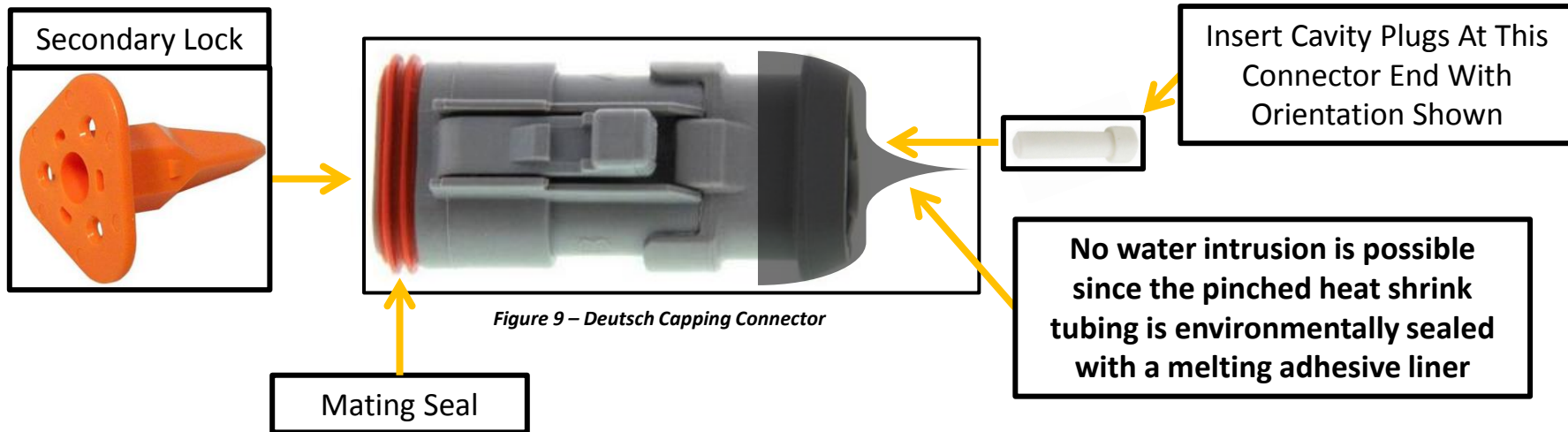
Figure 6 – Hex Head Plug Insertion

MQR-1684 – Capping Connector Assembly

DEUTSCH

10. DEUTSCH CONNECTOR SCENARIO (P/N N31229-04)

- Insert a secondary lock to prevent the mating seal from falling (P/N N25892-03).
- Seal each of the 3 cavities with a cavity plug (P/N N11681).
- Install 1.5 inch of heat shrink tubing (P/N N82227-13) over the capping connector shrink boot adapter located on the wire entry side. Then seal the connector end by pinching the heat shrink tubing with pliers while heating (see figure #9).
- Plug the capping connector on the mating harness #64 breakout (+EN-X64HF).



MQR-1684 – Harness #64 Breakout Wiring Management

DELPHI & DEUTSCH

11. Use a zip-tie (P/N N56339) to properly stow and secure harness breakout (+EN-X64H□) as shown in the following pictures (see figures #10 and #11). Connector could be Deutsch or Delphi variant depending on build configuration.

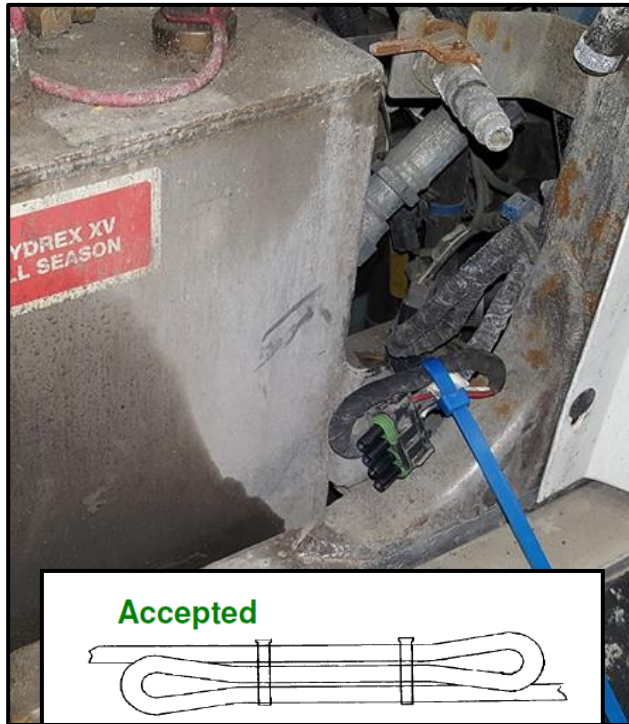


Figure 10 – Modified Harness #64 Breakout (+EN-X64H□)



Figure 11– Modified Harness #64 Breakout (+EN-X64H□) Close-Up View

Heat-shrunk capping connector not shown on the pictures above

