

**FT4867R1 Hydraulic level sensor defective**

Technical writer name  
**Devanand**

Manual section **09**

First Level Parts (100% of 438 vehicles)		
Material	Part Number	QTY
SENSOR LEVEL HYDRAULIC	N99760	1
CABLE TIE (8428098,99,8877976)	G5007994	1

Nb hours Level 1 0.25 hr MQR 7621-1684

Shop Supply (100% of 438 vehicles)		
Material	Part Number	QTY
LOCTITE THREAD SEALANT WHITE	N37086	2 ml

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

**Note:**  
N37086 (LOCTITE THREAD SEALANT WHITE)  
1 ea = 250ml  
2 ml / Bus  
876 ml for 438 buses  
3.5-4 Tubes for entire campaign

Client	Order	Road numbers		VIN		QTY	Lang.	Customer	Target market	Plant	Config moteur	Model	NR	R1	R2
San Antonio Texas	LA10	422	446	L82K9G9775628	L82K8G9775653	25	E	Us-Prv	US	PLB	TD	40	x	x	
San Antonio Texas	LA22	447	555	L82K8H9775654	L82K0H9775762	109	E	Us-Prv	US	PLB	TD	40	x	x	
San Antonio Texas	LA34	556	580	L82K0H9775857	L82K8H9775881	25	E	Us-Prv	US	PLB	TD	40	x	x	
San Antonio Texas	LA35	581	691	L82KXH9775882	L82K8H9775993	111	E	Us-Prv	US	PLB	TD	40	x	x	
San Antonio Texas	LB26	692	735	L82KXJ9776536	L82K6J9776579	44	E	Us-Prv	US	PLB	TD	40	x	x	
San Antonio Texas	LB43	970	987	L82K4J9776791	L82K1J9776828	18	E	Us-Prv	US	PLB	TD	40	x	x	
Capital Area Transportation Authority Michigan - CATA	LC07	6012	6015	S92J5K9777269	S92J5K9777272	4	E	US-Prv	US	PLB	TD	60	x	x	
Capital Area Transportation Authority Michigan - CATA	LC08	700	718	L82JK9777278	L82J8K9777306	19	E	US-Prv	US	PLB	TD	40	x	x	
Halifax - Nova Scotia	LB61	1277	1284	L82J9J9776664	L82J6J9776671	8	E	-	CA	PLB	TD	40	x	x	
Halifax - Nova Scotia	LB70	1285	1299	L82J4J9776829	L82J9J9776843	15	E	-	CA	PLB	TD	40	x	x	
Halifax Nova Scotia	LC11	1300	1334	L82JXK9777310	L82J5K9777344	35	E	-	CA	PLB	TD	40	x	x	
Chicago Transit Authority - CTA - Illinois	LB58	8325	8349	L82J7J9776906	L82J8J9776946	25	E	US-Prv	US	PLB	TD	40	x	x	

Jean-Nicolas Fournier  
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Date: 2020.08.12 12:57:04 -0400

# MQR 7621-1684

## Removal Of Hydraulic Oil Level Sensors

### ➤ Field Instructions

18/07/2019



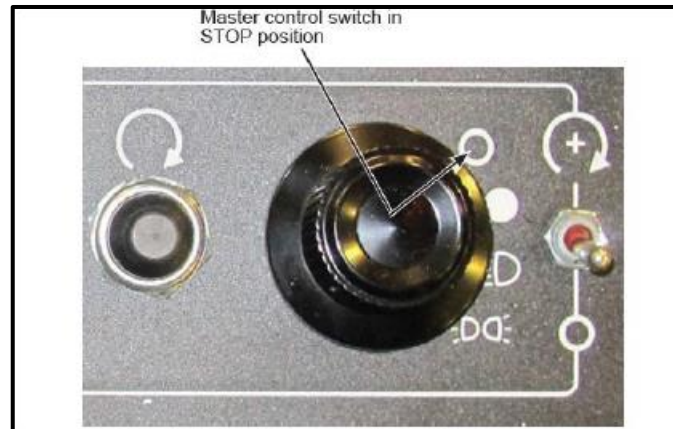


**WARNING : Follow your internal safety procedures.**

## 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

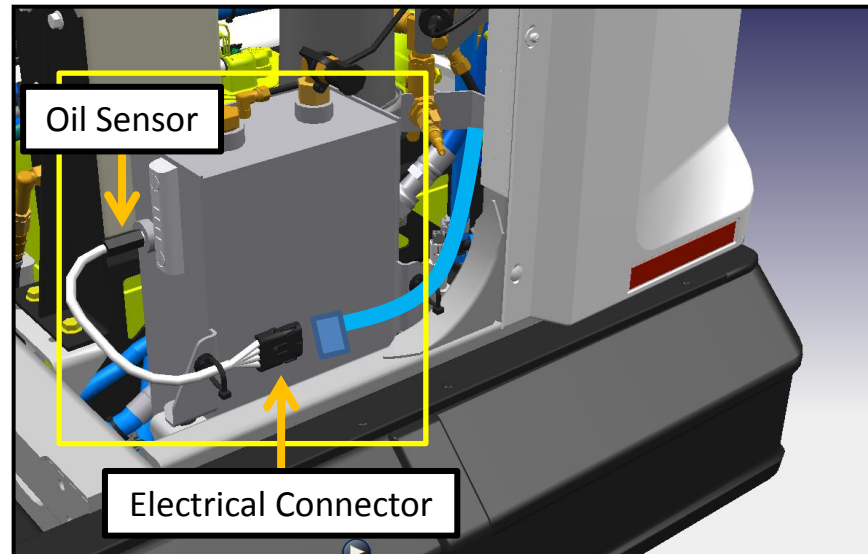


Figure 3 – Hydraulic Tank Location

# 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.)

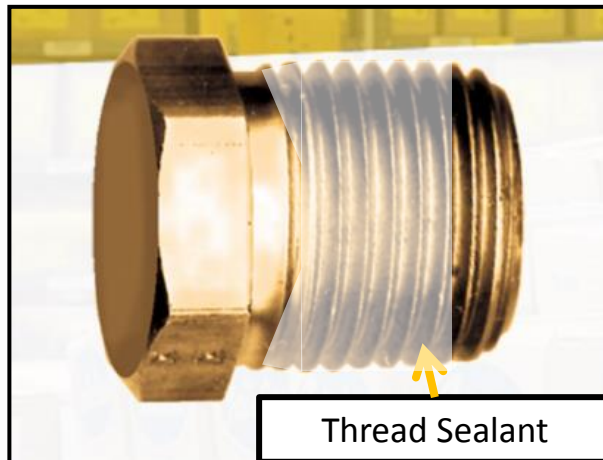


Figure 4 – Hex Head Plug

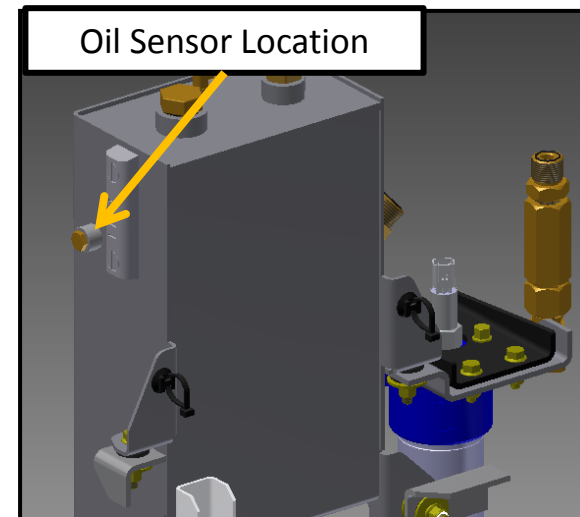


Figure 5 – Hydraulic Oil Tank

# 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.

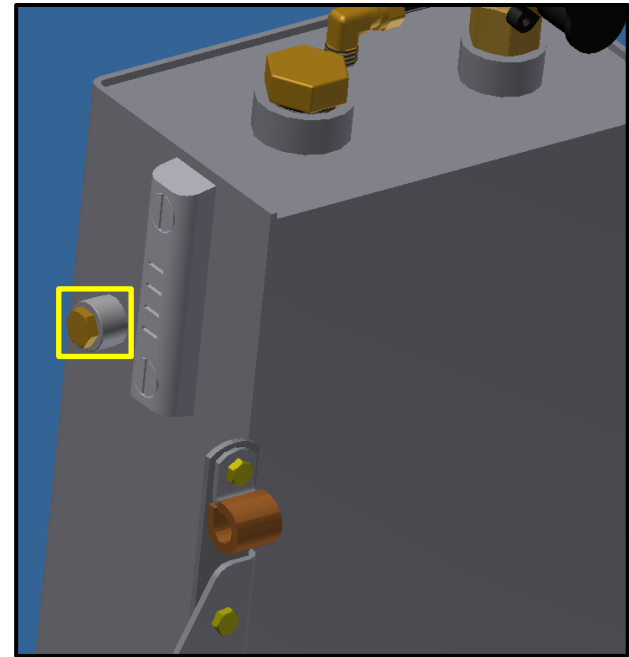


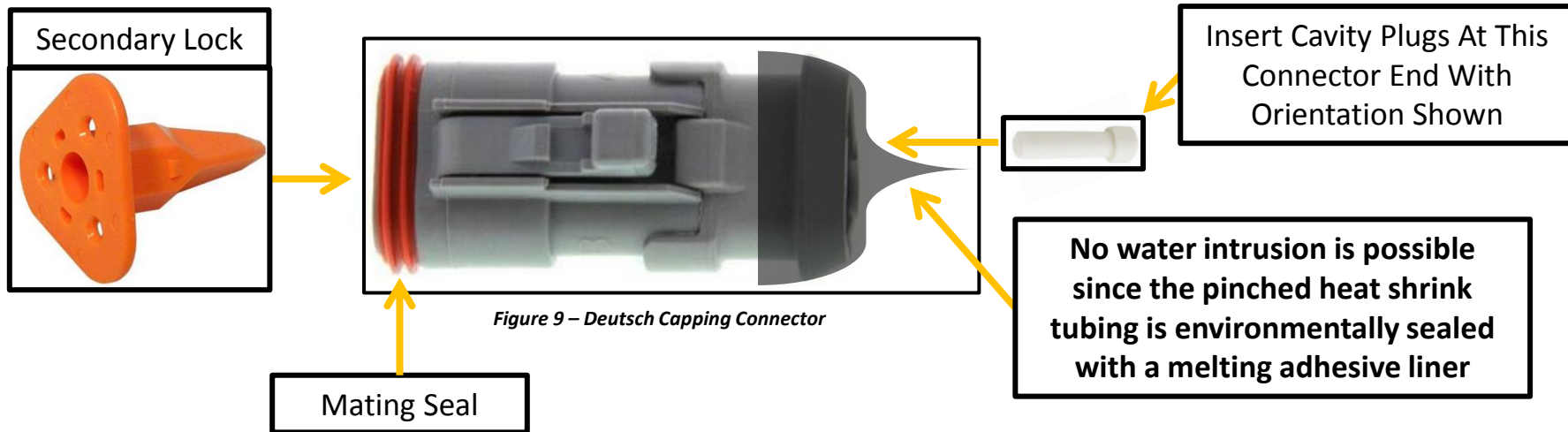
Figure 6 – Hex Head Plug Insertion

# 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.

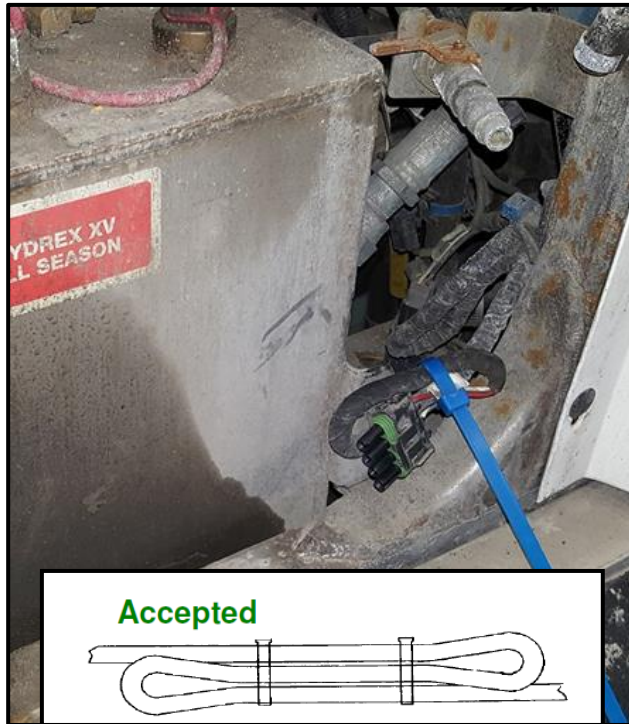


Figure 10 – Modified Harness #64 Breakout (+EN-X64H□)



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

**Heat-shrunk capping connector not shown on the pictures above**

