

#10-07-30-009: Information on Hybrid Service Transmissions and Auxiliary Fluid Pump/Control Module Connector Compatibility - (Jun 9, 2010)

Subject: Information on Hybrid Service Transmissions and Auxiliary Fluid Pump/Control Module Connector Compatibility

**Models: 2008–2009 Cadillac Escalade Hybrid
2008–2009 Chevrolet Tahoe Hybrid
2009 Chevrolet Silverado Hybrid
2008–2009 GMC Yukon Hybrid
2009 GMC Sierra Hybrid
All Equipped with Hybrid Propulsion RPO HP2
Please Refer to GMVIS**



[Hybrid Service Transmissions/Auxiliary Fluid Pump](#)

New hybrid service transmissions include a 2010 model year transmission auxiliary fluid pump that utilizes an updated connector that will not plug into the transmission auxiliary fluid pump control module. This includes the following service transmission part numbers:

- 2008 2WD — P/N 24256371
- 2008 4WD — P/N 24256372
- 2009 2WD — P/N 24256375
- 2009 4WD — P/N 24256376

The 2010 transmission auxiliary fluid pump, P/N 19207983, has a different connector that does not match previous model year service transmissions. Internally, the 2010 auxiliary fluid pump is identical to the 2008–2009 pump and will interface with a 2008–2009 transmission auxiliary fluid pump control module utilizing a replacement service connector on the control module.

The 2008–2009 transmission auxiliary fluid pump service part will be replaced by the 2010 version and will be required to service 2008–2009 model year vehicles. Service replacement for these vehicles will also require a replacement service connector to interface with a 2008–2009 transmission auxiliary fluid pump control module.

[Transmission Auxiliary Fluid Pump Control Module](#)

The 2008–2009 transmission auxiliary fluid pump control module service part will be replaced by the 2010 version and is required to service 2008–2009 model year vehicles. The 2010 transmission auxiliary fluid pump control module, P/N 29546636, includes different connectors that do not match previous model year transmission auxiliary fluid pumps and engine wiring harnesses. Internally, the 2010 auxiliary fluid pump control module is identical to the 2008–2009 pump and will interface with a 2008–2009 transmission auxiliary fluid pump and engine wiring harness utilizing replacement service connectors on the transmission auxiliary fluid pump and engine wiring harness.

[Instructions](#)

Follow the tables below when servicing 2008 and 2009 model year vehicles with the above hybrid service transmissions, 2010 transmission auxiliary fluid pumps and 2010 transmission auxiliary fluid pump control modules.

Refer to Component Connector End Views, Hybrid Controls Schematics and Splicing Copper Wire Using Splice Sleeves in SI for additional information on these connectors, circuits and use of the splice sleeves included with the service connectors listed below.

Important: The connectors listed are standard “pigtail” type splice connectors with 406 mm (16 in) leads. When installing, cut the pigtail leads back to a length just long enough to install the splice connectors. When cutting off the original connector, cut the harness just behind the connector body. Performing these steps will insure the harness remains as close as possible to the original length. It is especially important to not cut beyond the sealed portion of the auxiliary fluid pump harness.

Component to Connector Reference Table

Follow the table below to determine the correct service connector to use based on the component replaced.

Component Replaced	Connector(s) Required	Connector Location
Hybrid Transmission w/Auxiliary Fluid Pump	P/N 19153178 (Inline to I/P Harness Connector)	Auxiliary Fluid Pump Connector X2, Module Side
Transmission Auxiliary Fluid Pump	P/N 19153178 (Inline to I/P Harness Connector)	Auxiliary Fluid Pump Connector X2, Module Side
Transmission Auxiliary Fluid Pump Control Module	P/N 19153180 (Automatic Transmission Wiring Connector)	Auxiliary Fluid Pump Connector X2, Pump Side
	P/N 20817942 (Automatic Transmission Auxiliary Fluid Pump Control Module to Engine Wiring Harness)	Transmission Auxiliary Fluid Pump Control Module Connector X1, Engine Harness Side

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Connector Cross Reference Tables

Follow the tables below to determine the correct pin-out from the original harness connector to the replacement service pigtail connector.

2008–2009 Connector X1 (Automatic Transmission Auxiliary Fluid Pump Control Module to Body Harness)			2010 Service Pigtail Connector X1 (Automatic Transmission Auxiliary Fluid Pump Control Module to Body Harness)	
Pin	Circuit	Wire Color	Pin	Circuit
A	Battery Positive Voltage	RD/WH	4	Battery Positive Voltage
B	Not Used	-	—	Not Used
C	Ground	BK	5	Ground

2008–2009 Connector X1 (Automatic Transmission Auxiliary Fluid Pump Control Module to Body Harness)			2010 Service Pigtail Connector X1 (Automatic Transmission Auxiliary Fluid Pump Control Module to Body Harness)	
Pin	Circuit	Wire Color	Pin	Circuit
D	Transmission Fluid Pump Diagnostic	TN	1	Transmission Fluid Pump Diagnostic
E	Ignition Voltage	OG	2	Ignition Voltage
F	Transmission Fluid Pump Control	L-GN	3	Transmission Fluid Pump Control

2008–2009 Connector X2 (Automatic Transmission Auxiliary Fluid Pump Control Module to Transmission Auxiliary Fluid Pump)			2010 Service Pigtail Connector X2 (Automatic Transmission Auxiliary Fluid Pump Control Module to Transmission Auxiliary Fluid Pump)	
Pin	Circuit	Wire Color	Pin	Circuit
A	AC Voltage Phase A	RD	1	AC Voltage Phase A
B	Not Used	-	—	Not Used
C	AC Voltage Phase C	YE	3	AC Voltage Phase C
D	Drain Wire	BARE	4	Drain Wire
E	AC Voltage Phase B	D-BU	2	AC Voltage Phase B
F	Not Used	—	—	Not Used

Parts Information

Part Number	Description	Qty
19153178	Inline to I/P Harness Connector	1
19153180	Automatic Transmission Wiring Connector	1
20817942	Automatic Transmission Auxiliary Fluid Pump Control Module to Engine Wiring Harness	1

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