

Job Aid

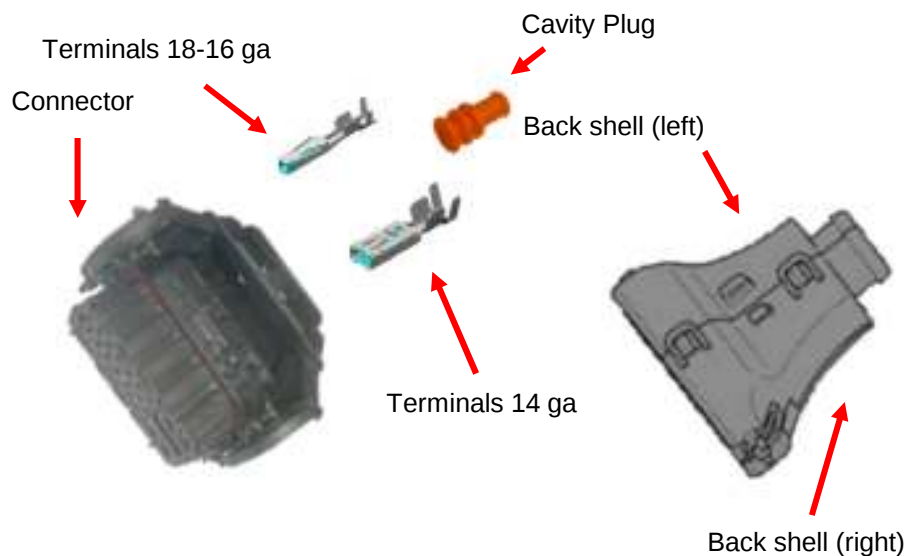


NOVABUS



OEM Terminals & Connectors

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ZF Ecolife ECU	
Connector	N49091
Back Shell (left)	N49092-01
Back Shell (right)	N49292-02
Cavity plug	N49098
Terminal 18-16 ga	N49094-03
Terminal 14 ga	N49094-02



ZF Ecolife Transmission Shifter	
Connector	N49109
Terminals	N36862

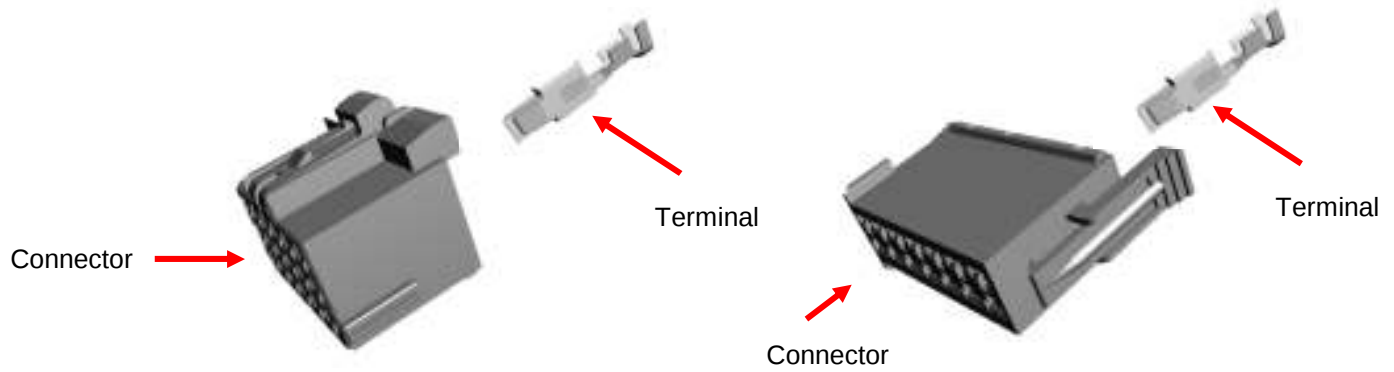
Connector (X4)	12045808	
Lock	12124264	
Cavity Plug	12059168	
Terminal 18-16 ga	12045773	
Seal 18 ga	12089678	
Seal 16 ga	12048086	

Connector (X3)	12065425	
Lock	12124264	
Terminal 18-16 ga	12048074	
Seal 18 ga	12089678	
Seal 16 ga	12048086	

Connector (X2)	N38605	
Terminal	N37911	

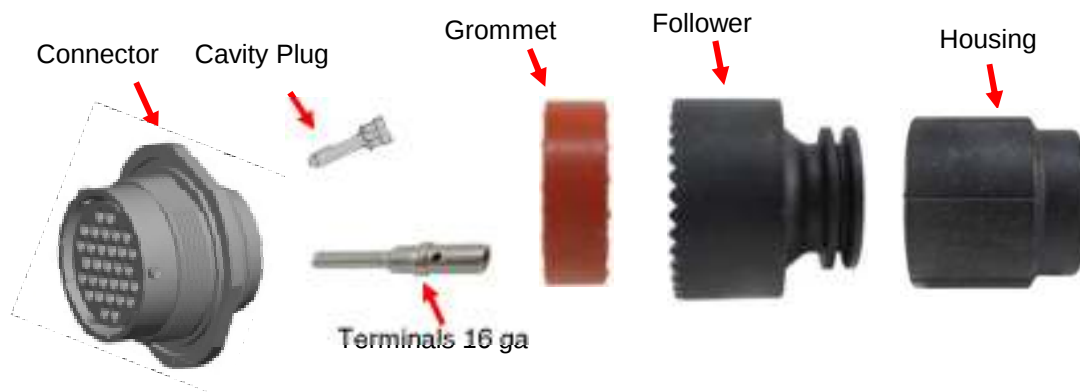
Connector (X21)	N31229--05	
Cavity Plug	N11681	
Wedge Lock (orange)	N25892-03	
Terminal	N31233-03	

Connector (Shifter)	N39703	
Terminal	N39704	



Voith Transmission ECU	
Connector	N49091
Terminals	N36862

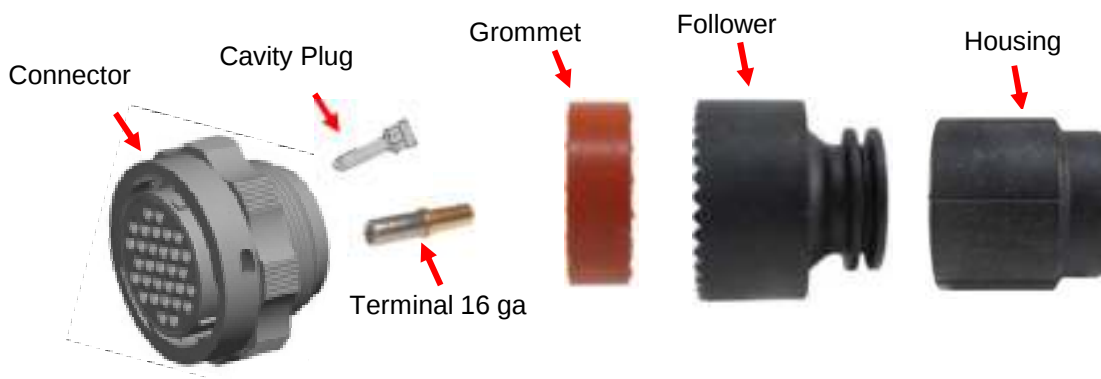
Voith Transmission Shifter	
Connector	N39703
Terminals	N39704



Allison Engine Compartment (See Dwg N40216)		
Bulkhead Connector Connected to Interior Back		
Part	Novabus Part #	Deutsch Part #
Conn. Receptacle	N41721-01	WTCO4B-24-31PN
Gommet, Backshell		WTA10-24-03
Follower, Backshell		WTA10-24-02/19
Housing, Backshell		WTA10-24-01/19
Cavity plug		0613-1-1601
Terminal 16 ga		3660-201-1690



Allison Engine Compartment (See Dwg N40216)		
Bulkhead Connector Connected to Transmission		
Part	Novabus Part #	Deutsch Part #
Conn. Plug	N41721-02	WTCO6B-24-31SN
Gommet, Backshell		WTA10-24-03
Follower, Backshell		WTA10-24-02/19
Housing, Backshell		WTA10-24-01/19
Cavity plug		0613-1-1601
Terminal 16 ga		3662-204-1690



Allison Engine Compartment (See Dwg N40215)		
Bulkhead Connector in Interior Back		
Part	Novabus Part #	Deutsch Part #
Conn. Plug	N41721-02	WTCO6B-24-31SN
Gommet, Backshell		WTA10-24-03
Follower, Backshell		WTA10-24-02/19
Housing, Backshell		WTA10-24-01/19
Cavity plug		0613-1-1601
Terminal 16 ga		3662-204-1690



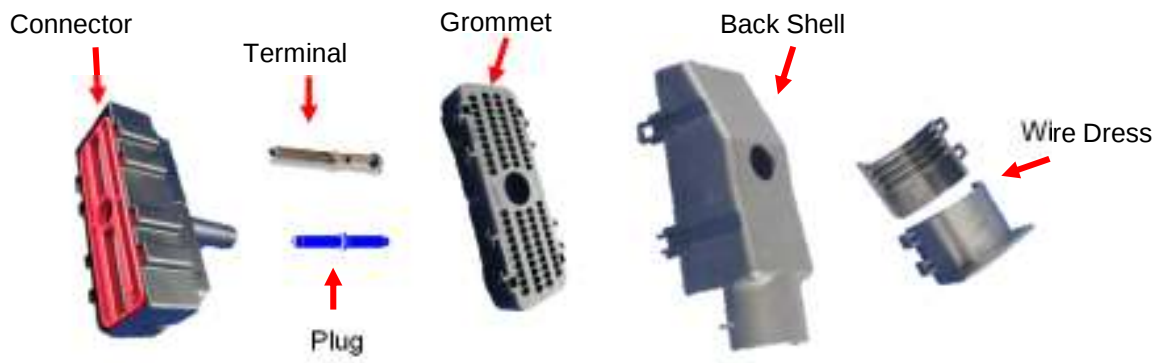
Allison Engine Compartment (See Dwg N40215)		
J1939 Connector +IB-X99L		
Part	Novabus Part #	Deutsch Part #
Conn. Female 3 way	N31229-03	DT04-E008
Terminal Pin	G5900719	0460-202-16141
Cavity Plug	N11681	114017
Secondary Lock	N25889-03	W3P



Allison Engine Compartment (See Dwg N40215)		
J1708 Connector +IB-X99M		
Part	Novabus Part #	Packard Part #
Conn. Female 2-Way	12010973	12010973
Terminal Pin 18-20 ga	G5900719	12089040
Wire Seal	12015323	12015323



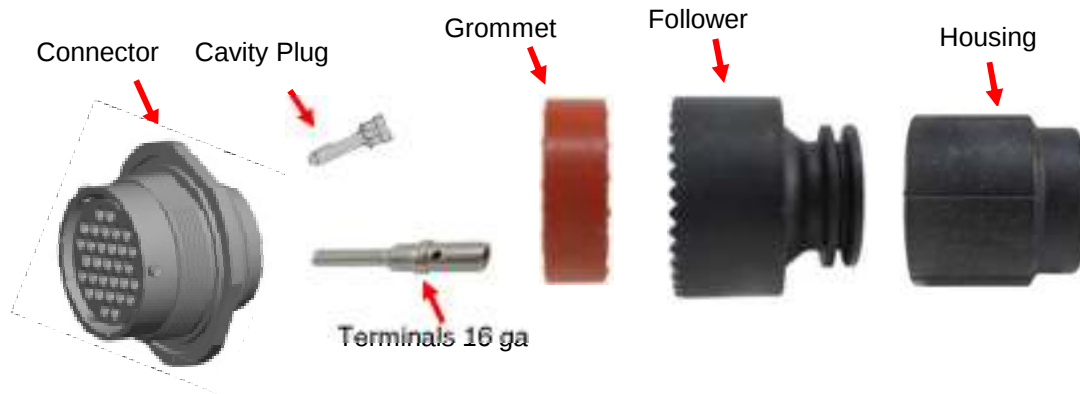
Allison Engine Compartment (See Dwg N40215)		
Vehicle Interface Wiring +IB-X99N		
Part	Novabus Part #	Deutsch Part #
Conn. Female 12-Way		DT04-12PA
Terminal Pin 16 ga	G5900719	0460-202-16141
Plug	N11681	114017
Lock	N30653	W12P



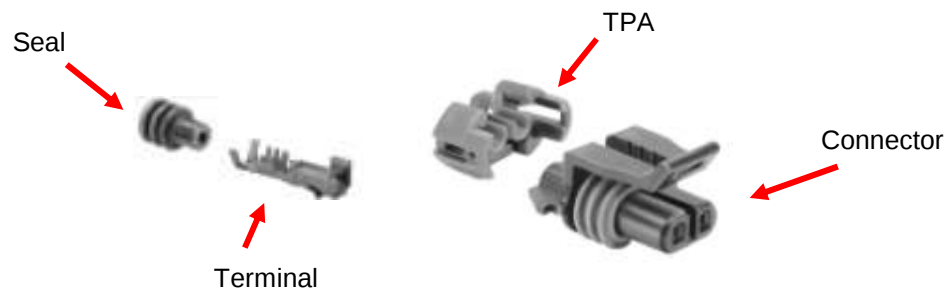
Allison Engine Compartment (See Dwg N40215)		
TCM Connector		
Part	Allison Part #	TKT Part #
Conn. Female 80F	N/A	R-61991-001
Grommet Cover	2954008	59086016
Back Shell	29544295	59088590
Wire Dress	29543051	59086102
Cavity Plug	13034413	12034413
Terminal	33001-0004	33001-0004

This is available as a kit from TKT Sales P/N 291003

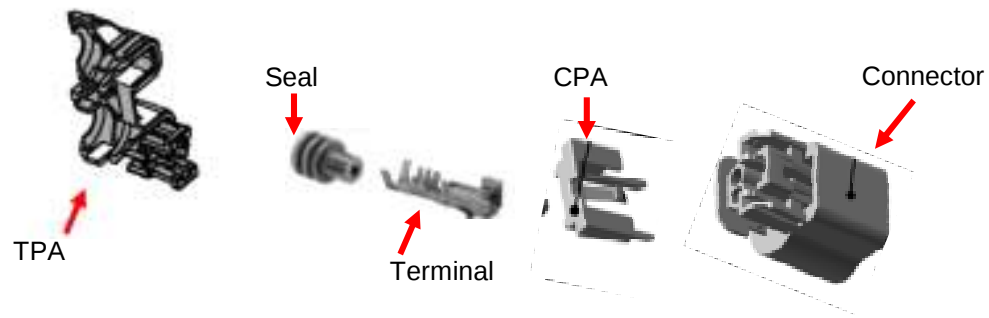
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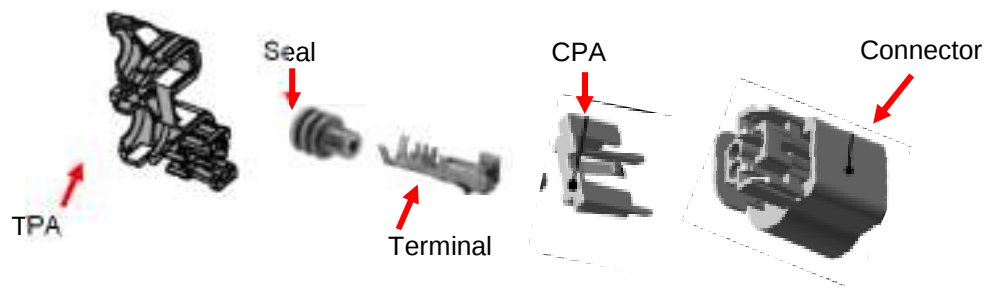
Allison Transmission (See Dwg N40217)		
Bulkhead Connector for Transmission		
Part	Novabus Part #	Deutsch Part #
Conn. Receptacle	N41721-01	WTCO4B-24-31PN
Gommet, Backshell		WTA10-24-03
Follower, Backshell		WTA10-24-02/19
Housing, Backshell		WTA10-24-01/19
Cavity plug		0613-1-1601
Terminal 16 ga		3660-201-1690



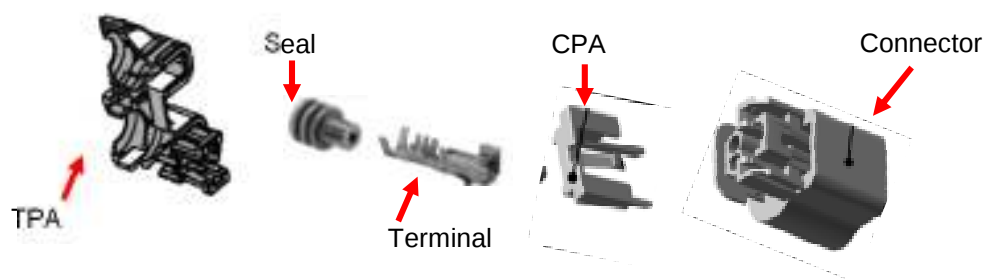
Allison Transmission (See Dwg N40217)		
Retarder Temperature Sensor		
Part	Novabus Part #	Packard Part #
Conn. Male	12162852	12162852
TPA	12052634	12052634
Terminal	12124075	12124075
Seal	12089678	12089678



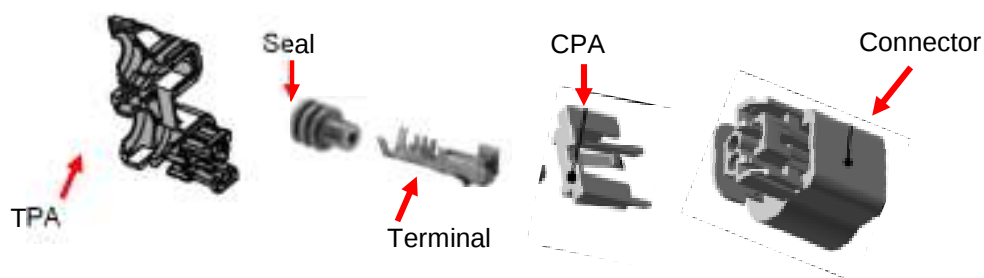
Allison Transmission (See Dwg N40217)		
Output Speed Sensor		
Part	Novabus Part #	Packard Part #
Conn. Male	13520101	13520101
CPA Lock	15496486	15496486
Terminal	15326267	15326267
Seal	15305351	15305351
TPA	15358890	15358890



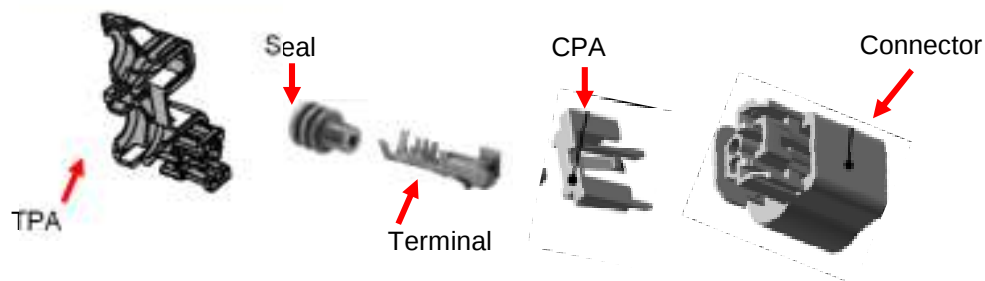
Allison Transmission (See Dwg N40217)		
Engine Speed Sensor		
Part	Novabus Part #	Packcard Part #
Conn. Male	13520101	13520101
CPA Lock	15496486	15496486
Terminal	15326267	15326267
Seal	15305351	15305351
TPA	15358890	15358890



Allison Transmission (See Dwg N40217)		
Turbine Speed Sensor		
Part	Novabus Part #	Packard Part #
Conn. Male	13520101	13520101
CPA Lock	15496486	15496486
Terminal	15326267	15326267
Seal	15305351	15305351
TPA	15358890	15358890



Allison Transmission (See Dwg N40217)		
Retarder Solenoid		
Part	Novabus Part #	Packard Part #
Conn. Male	13523048	13523048
CPA Lock	15496486	15496486
Terminal	15326267	15326267
Seal	15305351	15305351
TPA	15358890	15358890



Allison Transmission (See Dwg N40217)		
Retarder Accumulator Solenoid		
Part	Novabus Part #	Packard Part #
Conn. Male	13520104	13520104
CPA Lock	15496486	15496486
Terminal	15326267	15326267
Seal	15305351	15305351
TPA	15358890	15358890



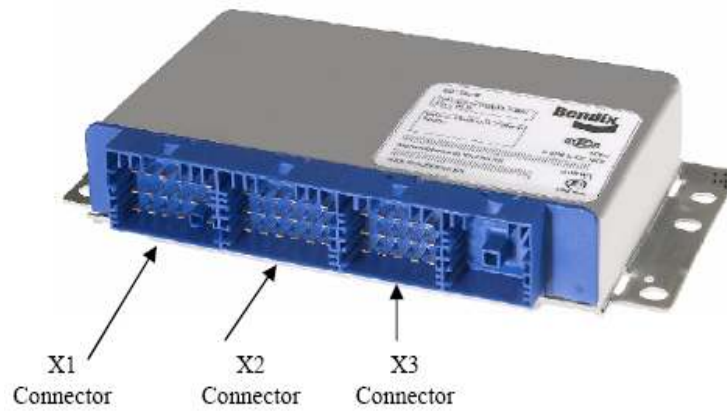
Allison Transmission (See Dwg N40217)		
Main Transmission Connector		
Part	TKT Part #	Allison Part #
Conn. Female	R62183001	N/A
Grommet	59086050	29543025
Back Shell	59086048	29543024
Wire Dress	59086056	29543028
Terminal	15358890	N/A
Plug	12034413	12034413

This is available as a kit from TKT Sales P/N 278003

https://www.tkt sales.com/connector_catalog.php?time=1473424386&id=278003&cats=

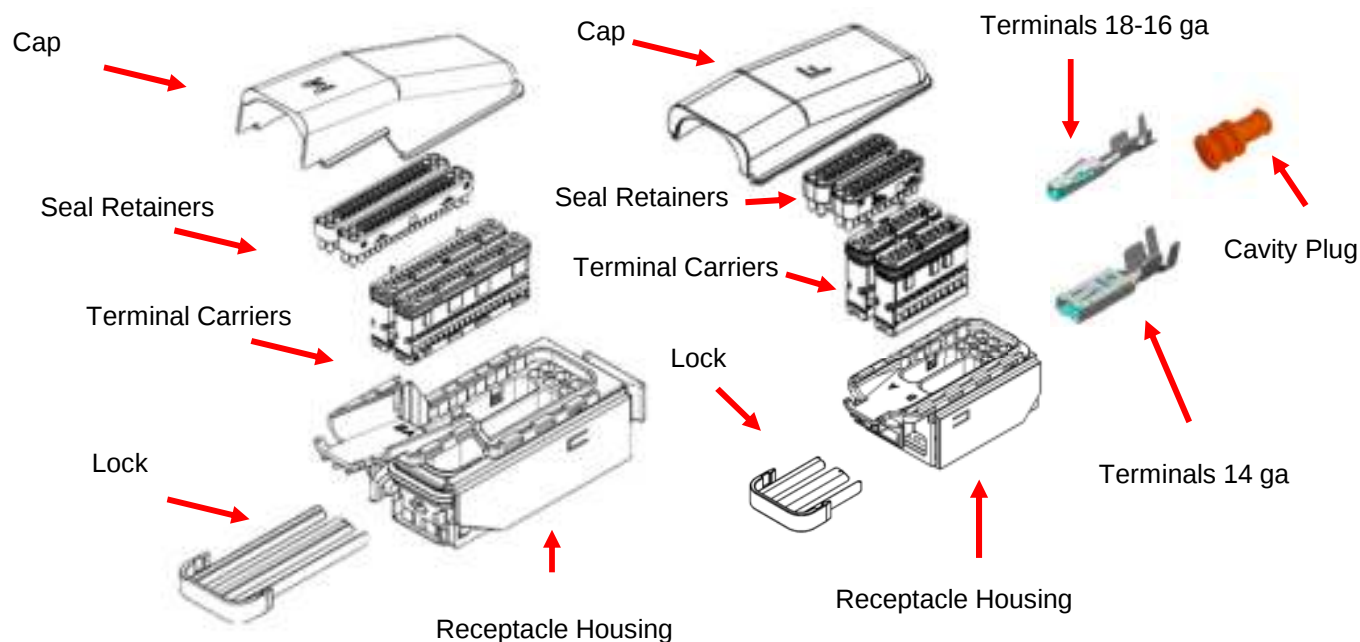


Allison Shifter	
Connector	12191065
Terminals	12084912
Back Shell	12191068
Lock	12129557
Seal	12191066



Connector (Black)	N40119-15	
Terminal 22 ga	N37235-01	
Terminal 20-16 ga	N37235-02	
Terminal 14-12ga	N37235-03	
Terminal 10 ga	N37235-04	
Pins 12 & 18	N40148 (16-14 ga)	
Connector (Grey)	N40119-15	
Terminal 22 ga	N37235-01	
Terminal 20-16 ga	N37235-02	
Terminal 14-12ga	N37235-03	
Terminal 10 ga	N37235-04	
Connector (Violet)	N40119-15	
Terminal 22 ga	N37235-01	
Terminal 20-16 ga	N37235-02	
Terminal 14-12ga	N37235-03	
Terminal 10 ga	N37235-04	

Terminal



Kostal 86 way connector	
Receptacle Housing	N49081-01
Cap	N49081-02
Seal Retainer	N49081-03
Seal Retainer	N49081-04
Lock	N49081-05
Terminal Carrier	N49081-06
Terminal Carrier	N49081-07
Cavity plug	N49098
Terminal 18-16 ga	N49073-16
Terminal 14 ga	N49094-02

Kostal 53 way connector	
Receptacle Housing	N49080-01
Cap	N49080-02
Seal Retainer	N49080-03
Seal Retainer	N49080-04
Lock	N49080-05
Terminal Carrier	N49080-06
Terminal Carrier	N49080-07
Cavity plug	N49098
Terminal 18-16 ga	N49073-16
Terminal 14 ga	N49094-02

SCR Temperature (X64FL)	
Connector	N60228-04
DPF Pressure Sensor (X64EA)	
Connector	N60228-02
DPF Temperature Sensor (X64BA)	
Connector	N60228-01
Cavity plug	N49048
Backshell	N55173-06
Terminal 16 ga	N43789-14

Cavity Plug

Backshell

Terminal

Connector

Tank Heating valve	
Connector	984849
Cavity plug	N33782
Terminal 16 ga	3963047

Connector

Terminal

Seals

Dosing Valve	
Connector	N49170-02
Cavity plug	N49173
Terminal 18 ga	N49171-16
Seal	N49172-16

Cavity Plug

Connector

Terminal

Seals

Urea Tank Level & Sensor	
Connector	12065158
Cavity plug	12010300
Terminal 18 ga	12089040
Terminal 16 ga	12124582
Seal	12089679
Seal	12010293

Cavity Plug

Terminals (Male)

Seals

Connector

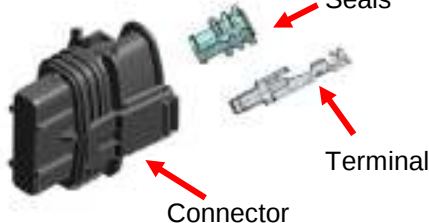
Supply Module	
Connector	N49030-12
Cavity plug	N49042
Terminal 18 ga	N49031-18
Terminal 16 ga	N49031-16
Seal	N49032-03

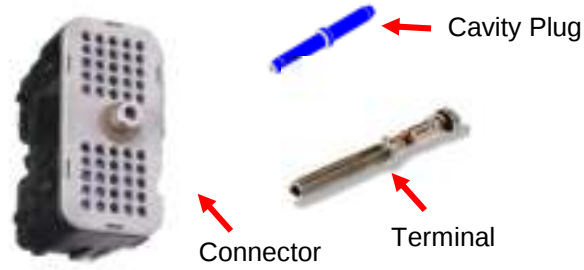
Cavity Plug

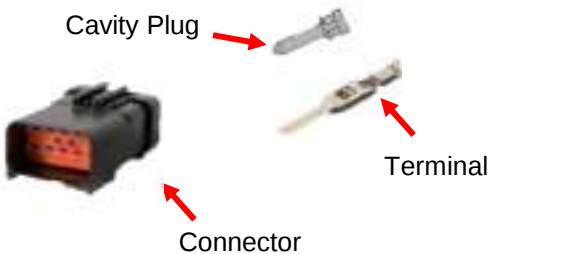
Terminal

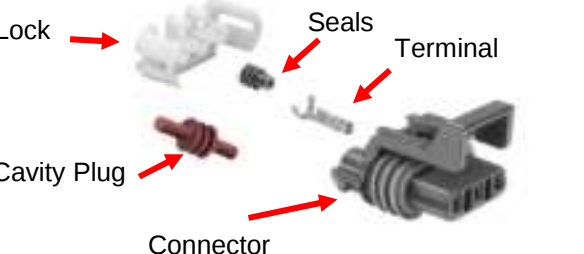
Seals

Connector

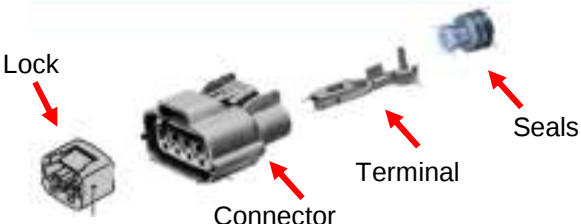
Nox Sensor - SCR		
Connector	N49166-04	
Cavity plug	N49169	
Terminal 18-16 ga	N49167-16	
Seal	N49168-16	

Engine ECU Connector		
Connector	15472534	
Cavity plug	12129557	
Terminal 20 ga	13551420	
Terminal 18-16 ga	15489000	

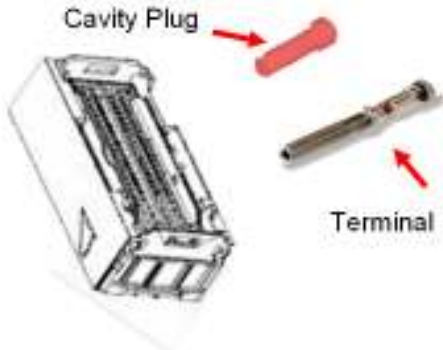
14 Pins Interface Connector (Cummins)		
Connector	N49017-01	
Cavity plug	N49048	
Terminal 18 ga	N49362-18	
Terminal 16 ga	N49362-16	

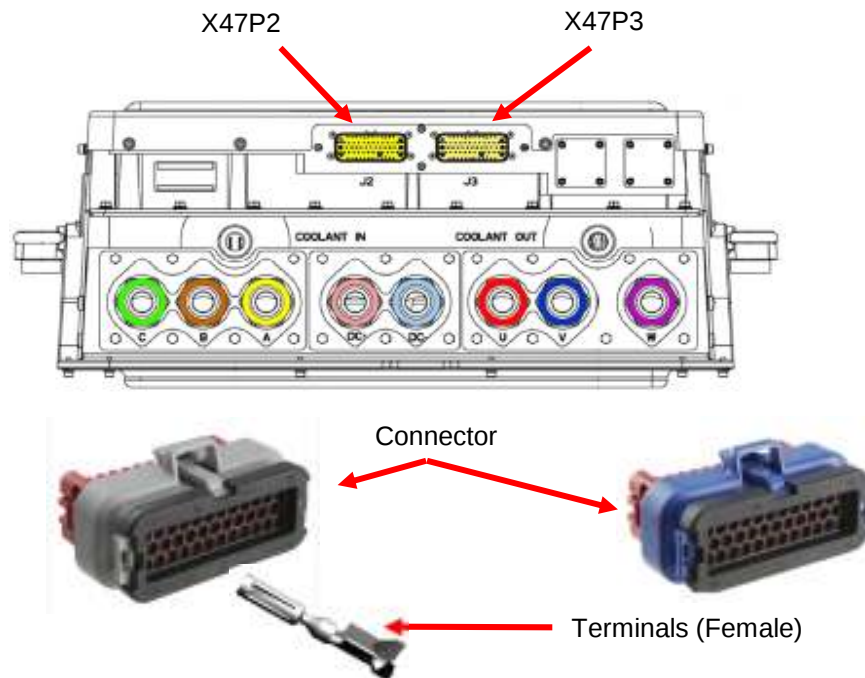
Sensor Coolant Level		
Connector	12110293	
Cavity plug	12059168	
Lock	12052845	
Terminal	12048074	
Seal	12048086	

Nox Sensor Engine (Cummins)		
Connector	N26396-01	
Cavity plug	N11681	
Lock	N26398	
Terminal	N30120	

Intake Manifold Temp/Press Sensor		
Connector	N46887-01	
Lock	N46887-0421	
Seal	N46887-03	
Terminal	N46887-02	

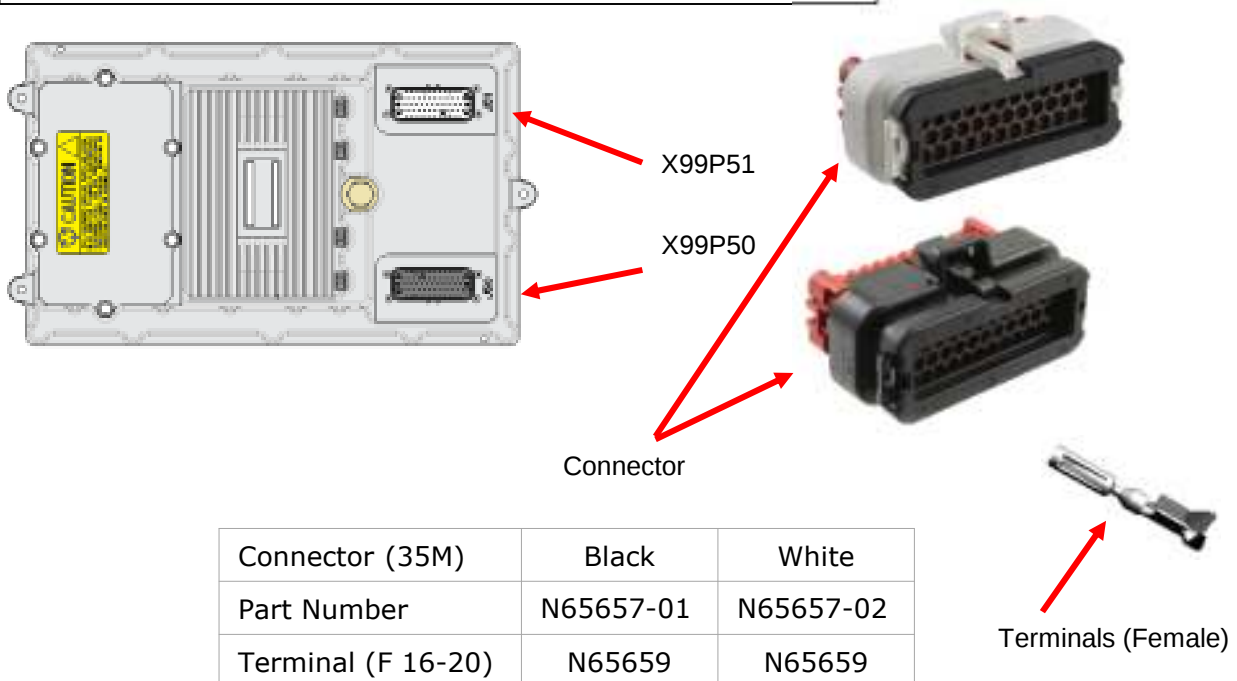
Intake Manifold Temp/Press Connector (Cummins)		
Connector	N43787-05	
Cavity plug	N49048	
Terminal 16 ga	N43788-16	

ECU Connector (Cummins)		
Connector	13964572	
Cavity plug	N68800	
Terminal 16 ga	N68796	
Terminal 18 ga	N68797	
Terminal 20 ga	N68795	

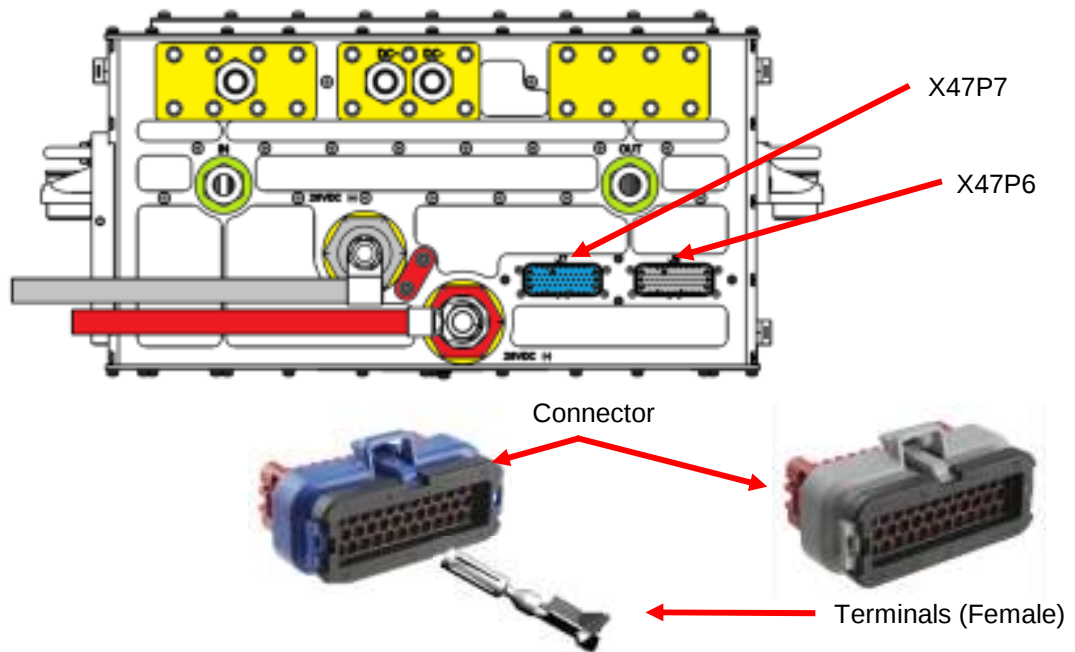


Connector (35M)	Grey	Blue
Part Number	N65657-04	N65657-05
Terminal (F 16-20)	N65659	N65659

Propulsion Control Unit (PSU)



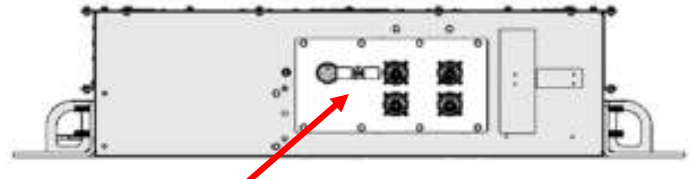
Connector (35M)	Black	White
Part Number	N65657-01	N65657-02
Terminal (F 16-20)	N65659	N65659



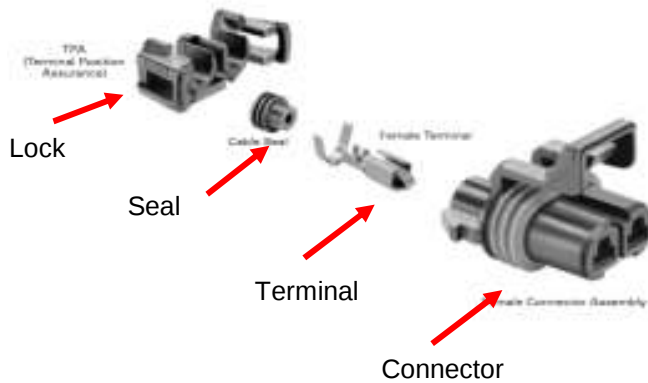
Connector (35M)	Grey	Blue
Part Number	N65657-04	N65657-05
Terminal (F 16-20)	N65659	N65659



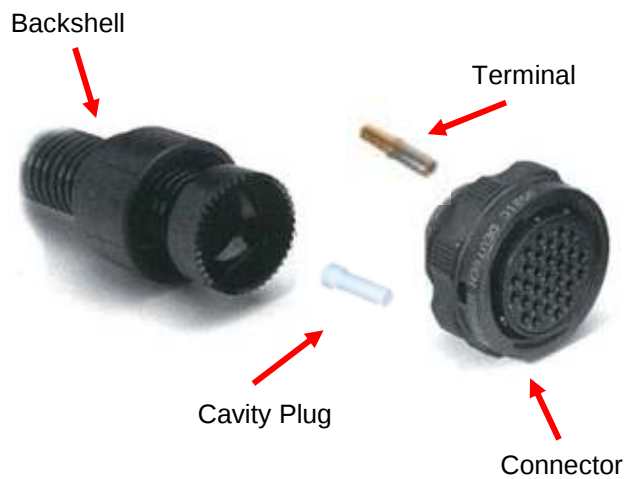
X47P80



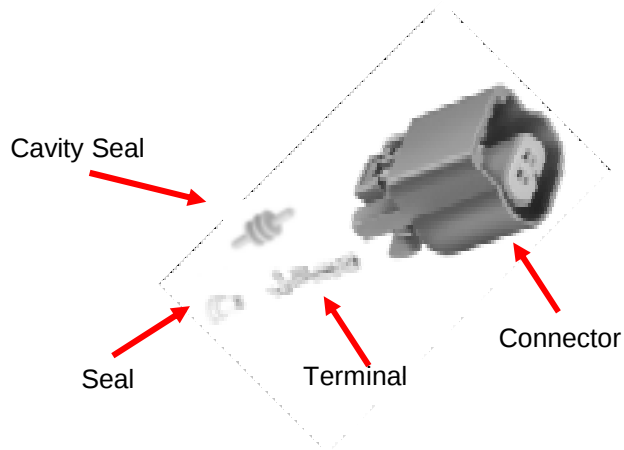
X47FAN1/X47FAN2



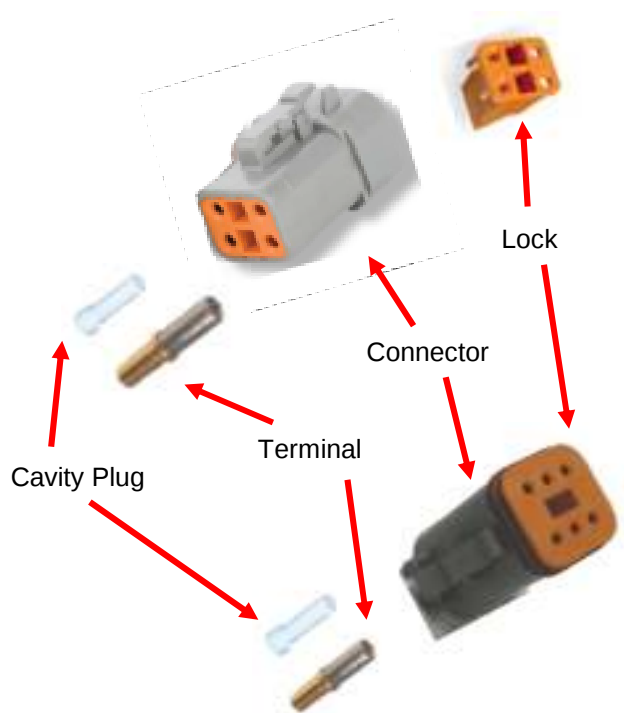
FAN CONTROL (X47FAN1-2)	
Connector	12052613
Terminal	12052139
Seal	12048442
Cavity Plug	12066082
Lock	12059897



CONNECTOR (X47P80)	
Connector	N41721-08
Terminal	N25891
Terminal (A,B,C,F,V,W)	G5900719
Backshell	N41721-03
Cavity Plug	N11681

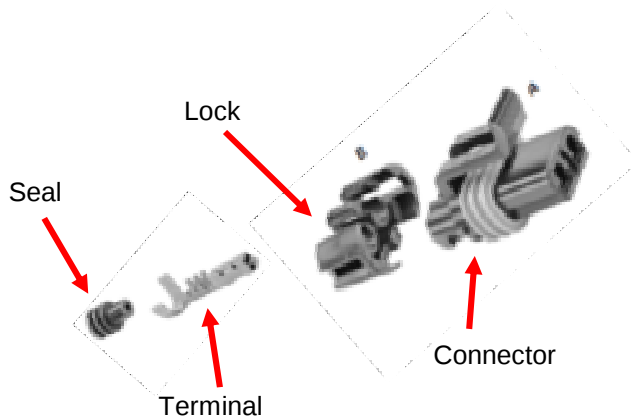


OIL LEVEL SENSOR (X07S)	
Connector (3F)	15326808
Terminal	12191819
Seal	15305351
Cavity Plug	15305171

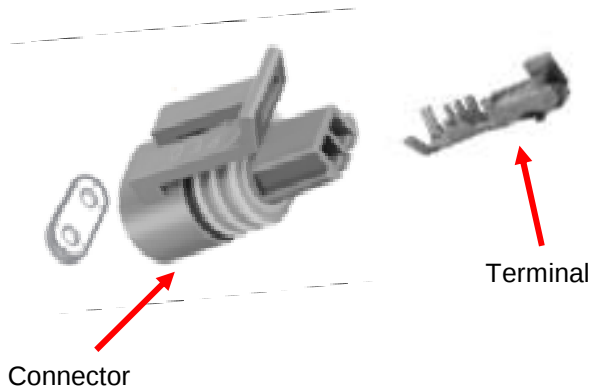


ATCM OIL PUMP (X07J2)	
Connector	N65972
Terminal	N10274
Cavity Plug	N11681
Lock	N35282

ACTM POSTION SENSOR (X07P7)	
Connector	N33539
Terminal	N49779
Cavity Plug	N11681
Lock	N25892-06

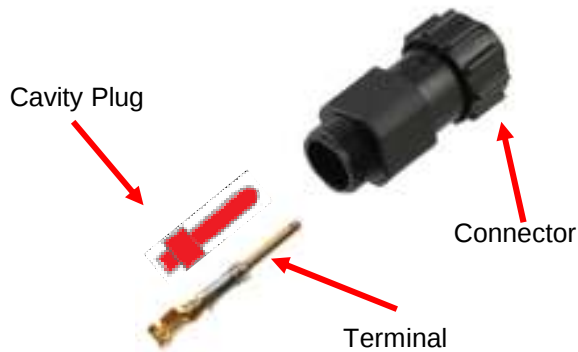


OIL PRESSURE (X07R)	
Connector	15300027
Terminal	12077411
Lock	15300014
Seal	12089679



STATOR TEMPERATURE SENSOR (X07P6A)

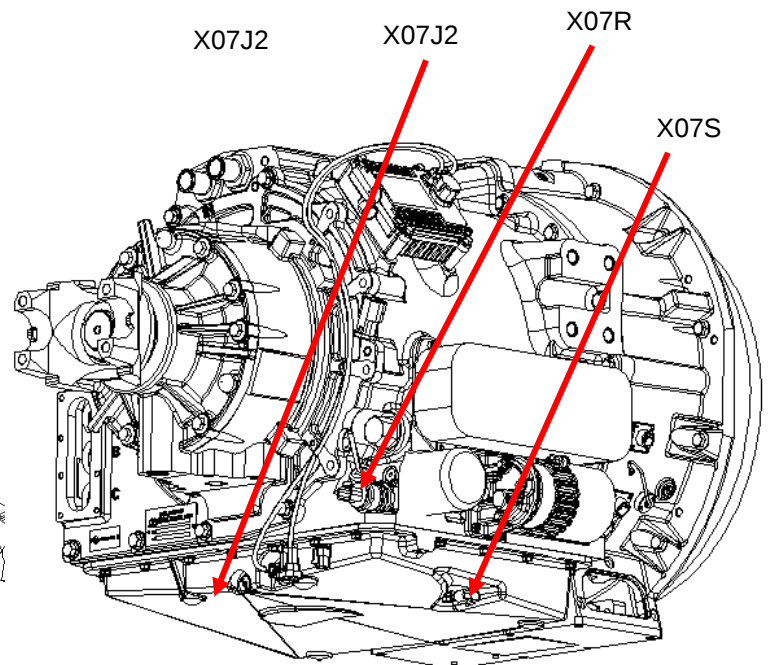
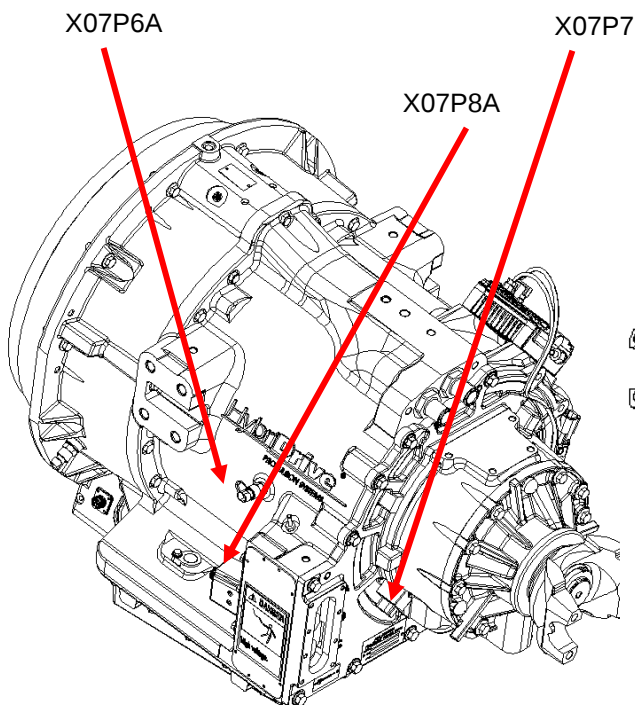
Connector	12162193
Terminal	12124075
Cavity Plug	12059168

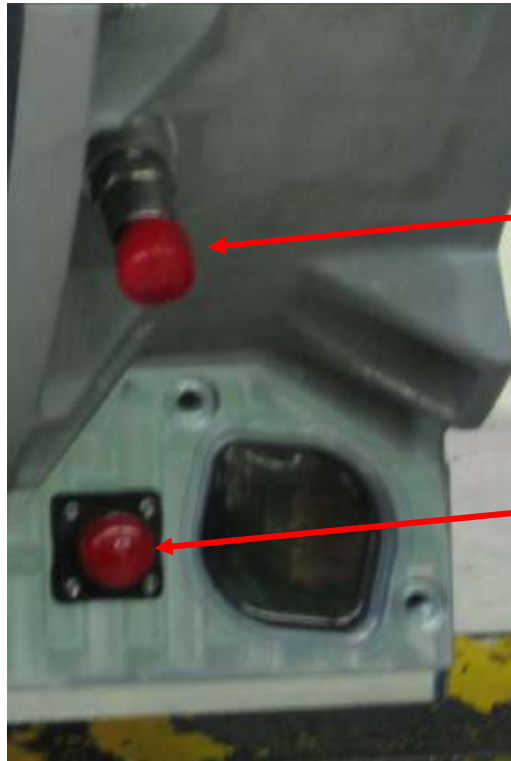


HVIL CONNECTOR (X07P8A)

Connector	N65977
Terminal	N49779
Cavity Plug	N65980

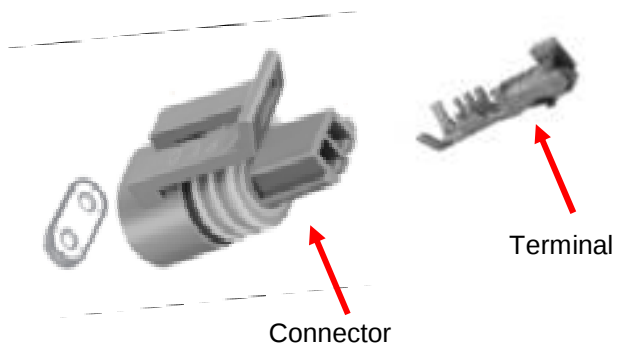
Lock





X07P4

X07P3A

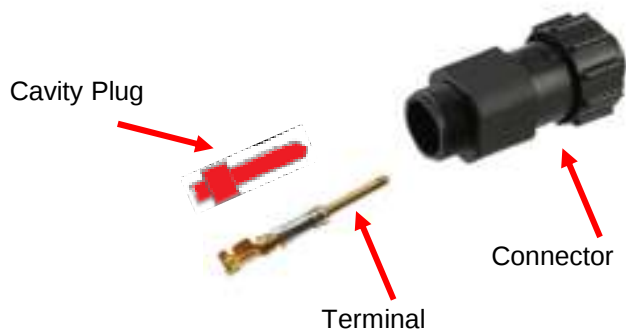


Connector

Terminal

ISG TEMPERATURE SENSOR (X07P4)

Connector	12162193
Terminal	12124075
Cavity Plug	12059168
Lock	



Cavity Plug

Terminal

Connector

HVIL CONNECTOR (X07P3A)

Connector	N65977
Terminal	N49779
Cavity Plug	N65980