

## Appendix G—WIRE/CONNECTOR/VIM CHARTS

### G-1. WIRE/CONNECTOR CHART

The connector information in this appendix is provided for the convenience of the servicing technician. The connector illustration and pin identifications for connection to Allison Transmission components will be accurate. Allison Transmission components are the TCM, speed sensors, retarder connectors, transmission connectors, and shift selectors. Other kinds of connectors for optional or customer-furnished components are provided based on typical past practice for an Allison-designed system.

Contact St. Clair Technologies, Inc. or your vehicle manufacturer for information on connectors not found in this appendix.



**NOTE:** The following abbreviation guide should be used to locate connector termination points for wires in the Allison Transmission 6th Generation wiring harness(es).

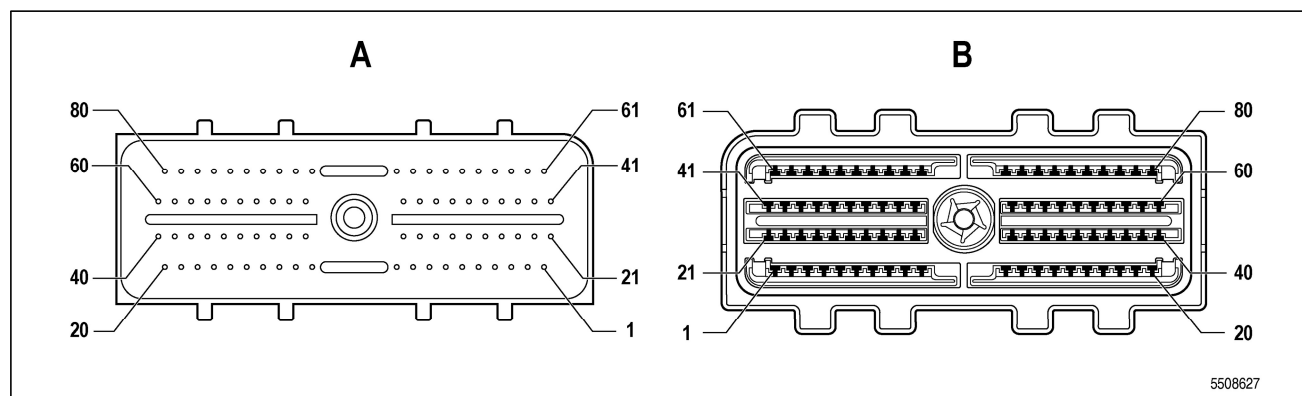
**Table G-1. Abbreviation Guide**

Termination Point Abbreviation	Connector Name
ABS	Anti-lock Brake System
ARTN	Analog Return
CAN	Controller Area Network
DDRD	Diagnostic Connector—Deutsch
DDRP	Diagnostic Connector—Packard
FM	Filter Life Monitor
GPI	General Purpose Input
GPO	General Purpose Output
NE	Engine Speed Sensor
NO	Output Shaft Speed Sensor
NT	Turbine Shaft Speed Sensor
OBD-II	Diagnostic Connector—GMC On Board Diagnostics
OLS	Oil Level Sensor
OM	Oil Life Monitor
PCS	Pressure Control Solenoid
PS	Pressure Switch—Control Module
PWM	Pulse Width Modulation
RMR	Retarder Modulation Request Device
RNGTRM	Chassis Ground Ring Terminal
RTEMP	Retarder Temperature—Retarder Housing
SAE J1939	SAE J1939 Datalink From ECU Selector (S) Harness
SCI	Serial Communication Interface
SS	Shift Solenoid
TCASE	3000 Series 7-Speed Transfer Case
TM	Transmission Health Monitor
TPS	Throttle Position Sensor

## Allison 3000 Series™ and 4000 Series™

**Table G–1. Abbreviation Guide (cont'd)**

Termination Point Abbreviation	Connector Name
TRANS	Transmission Feed Through Harness
VIM	Vehicle Interface Module



**Figure G–1. End View of 80-Way TCM Connector**

**Table G–2. 80-Way TCM CONNECTOR**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
1	Blue	101	GPI 6 (-)	Vehicle System
2	Yellow	102	GPI 2 (+)	Vehicle System
3	Yellow	103	TCM Digital Return	Vehicle System
4	Yellow	104	GPO 2 (-)	Vehicle System or VIM-B1
5	Orange	105	GPO 4 (-)	Vehicle System or VIM-C2
6	Yellow	106	CAN2 High (+)	IESCAN A or H
7	Yellow	107	Internal Terminating Resistor CAN1 (TCM)	Vehicle System
8	Green	108	CAN1 Low (-)	SAE J1939 B or L
9	Gray	109	Battery (-)	Vehicle System or VIM-A2
10	Pink	110	Battery (+)	Vehicle System or VIM-E2
11	Orange	111	High Side Driver Feed (HSD1)	Trans Connector (Pin 1)
			TransID (TIDB Only)	Trans Connector (Pin 6 TIDB Only)
				Unused TransID (Pin 20)
12	Pink	112	Signal Reference 5V	Trans Connector (Pin 16) TPS (Pin C)
13	White	113	GPO 8 (-)	Vehicle System
14	Blue	114	Strip Shift Selector Bit-4	Strip Shift Selector (Pin C)
15	White	115	Pressure Control Solenoid (PCS5)	Retarder Solenoid (Pin A) or T-Case (Pin A)
16	Blue	116	OLS	Trans Connector (Pin 15)
17	Blue	117	GPI 10 (-)	Vehicle System

## Appendix G—WIRE/CONNECTOR/VIM CHARTS

**Table G–2. 80-Way TCM CONNECTOR (cont'd)**

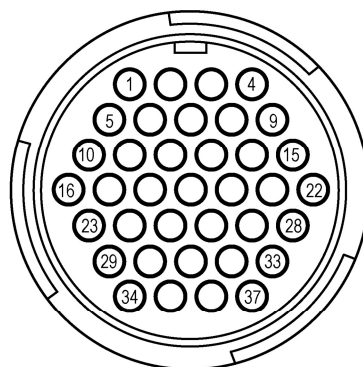
Terminal No.	Color	Wire No.	Description	Termination Point(s)
18	Yellow	118	PS2	Trans Connector (Pin 17)
19	Blue	119	Shift Solenoid (SS2)	Trans Connector (Pin 17) or Retarder Accumulator Solenoid (Pin A)
20	Blue	120	Turbine Shaft Speed Sensor—Low	NT-B (4000) or Trans Connector (Pin 14) (3000)
21	Green	121	ABS/GPI 8 (–)	Vehicle System
22	Yellow	122	GPI 4 (–)	Vehicle System
23	Green	123	GPI 1 (+)	Vehicle System
24	White	124	GPO 5	Vehicle System
25	Tan	125	Vehicle Speed Signal	Input for Vehicle Speedometer or VIM-B2
26	Yellow	126	Internal Terminating Resistor CAN2 (TCM)	Vehicle System
27	Green	127	CAN2 Low (–)	IESCAN B or L
28	Yellow	128	CAN1 High (+)	SAE J1939 A or H
29	Green	129	CHECK TRANS (–)	Vehicle System
30	White	130	GPO 1 (+)	Vehicle System or VIM-D2
31	Yellow	131	HSD3	Trans Connector (Pin 11), Retarder Accumulator Solenoid (Pin B), and Retarder Solenoid (Pin B) or T-Case (Pin-B)
32	—	—	Not Used	—
33	Yellow	133	PCS3	Trans Connector (Pin 9)
34	No Color	134	Allison-supplied SAE J1939 Shift Selector	Allison SAE J1939 Shift Selector (Pin 11)
35	Blue	135	Engine Water Temperature	Engine Water Temp (Pin A)
36	Orange	136	PCS1	Trans Connector (Pin 4)
37	White	137	TCC Solenoid	Trans Connector (Pin 12)
38	Tan	138	Strip Shift Selector Bit-Parity	Strip Shift Selector (Pin E)
39	Orange	139	Engine Speed Sensor—Low	NE-B
40	Green	140	Output Shaft Speed Sensor—Low	NO-B or T-Case (Pin D)
41	Tan	141	Neutral Start Output (+)	To OEM supplied starter relay or VIM-D1
42	White	142	GPI 5 (–)	Vehicle System
43	Blue	143	GPI 3 (+)	Vehicle System
44	Blue	144	PWM/TPS Input	Vehicle System or TPS (Pin B)
45	Orange	145	GPO 3 (–)	Vehicle System or VIM-F3
46	—	—	Not Used	—
47	—	—	Not Used	—

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**Table G–2. 80-Way TCM CONNECTOR (cont'd)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
48	Yellow	148	CAN1 High	SAE J1939 A or H
49	N/A	149	CAN1 Shield	SAE J1939 C or S
50	Pink	150	GPO 7 (-)	Vehicle System
51	White	151	SS1	Trans Connector (Pin 10)
52	Green	152	PCS2	Trans Connector (Pin 5)
53	Green	153	Strip Shift Selector Bit-2	Strip Shift Selector (Pin B)
54	Tan	154	Sump Temp Sensor	Trans Connector (Pin 18)
55	White	155	PCS4	Trans Connector (Pin 2)
56	Yellow	156	Retarder Request Sensor	RMR (Pin B)
57	White	157	GPI 12 (-)	Vehicle System
58	Green	158	TCM Analog Return	Trans Connector (Pin 19), RMR (Pin A), TPS (Pin A), Engine Water Temp (Pin B), Retarder Temp (Pin B)
59	Tan	159	Engine Speed Sensor—High	NE-A
60	Yellow	160	Output Shaft Speed Sensor—High	NO-A or T-Case (Pin C)
61	Orange	161	GPI 7 (-)	Vehicle System
62	Yellow	162	GPI 9 (-)	Vehicle System or VIM-F1
63	Yellow	163	Ignition Power	Vehicle System or VIM-F1
64	Blue	164	GPO 6 (-)	Vehicle System
65	Tan	165	Reverse Warning	Vehicle System or VIM-F2
66	Yellow	166	CAN2 High	IESCAN A or H
67	N/A	167	CAN2 Shield	IESCAN C or S
68	—	—	Not Used	—
69	Gray	169	Battery (-)	Vehicle System or VIM-A
70	Pink	170	Battery (+)	Vehicle System or VIM-E1
71	Yellow	171	HSD2	Trans Connector (Pin 6)
			TransID (TIDB Only)	Trans Connector (Pin 1 TIDB Only)
72	—	—	Not Used	—
73	Orange	173	Strip Shift Selector Bit-1	Strip Shift Selector (Pin A)
74	Blue	174	MAIN MOD Solenoid	Trans Connector (Pin 8)
75	Orange	175	Retarder Temperature	Retarder Temp (Pin A)
76	Yellow	176	OEM Optional	Unused Obsolete TransID
77	Green	177	PS1	Trans Connector (Pin 3)
78	White	178	PCS6	Trans Connector (Pin 7)
79	Pink	179	GPI 11 (-)	Vehicle System
80	Orange	180	Turbine Shaft Speed Sensor—High	NT-A (4000) or Trans Connector (Pin 13) (3000)

## Appendix G—WIRE/CONNECTOR/VIM CHARTS



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**Figure G–2. 37–Way ITT-Cannon APD Connector (A63 and C73M TCM Compatible)**

Connector View: viewed from wire insertion point of OEM—supplied Plug connector.

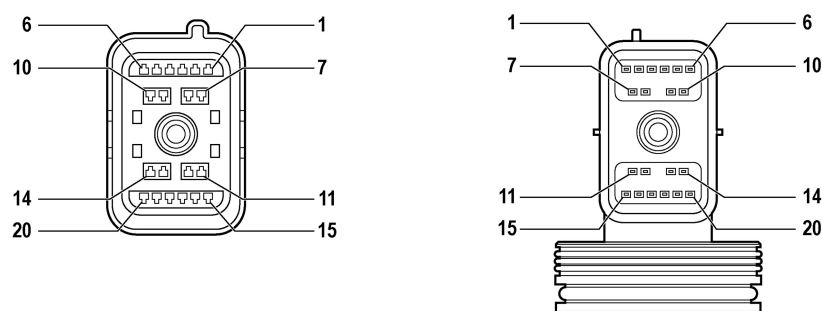
**Table G–3. 37–Way ITT-Cannon APD Connector**

Terminal Number	Color	Wire Number	Description
1	Blue	119	Air Solenoid/SS2
2	Orange	111	HSD1
3	Yellow	133	PCS3
4	White	151	SS1
5	Pink	112	Sensor Supply
6	—	—	Not Used
7	Blue	174	Main Mod
8	White	115	Retarder Solenoid
9	White	178	PCS6
10	Yellow	131	HSD3
11	—	—	Not Used
12	Orange	136	PCS1
13	Yellow	118	PS2
14	White	137	TCC
15	Blue	135	Water Temperature
16	—	—	Not Used
17	Green	152	PCS2
18	—	—	Not Used
19	Yellow	171	HSD2
20	White	155	PCS4
21	Orange	175	Retarder Temperature
22	Green	158	Sensor Ground
23	—	—	Not Used
24	—	—	Not Used

# Allison 3000 Series™ and 4000 Series™

**Table G-3. 37-Way ITT-Cannon APD Connector (cont'd)**

Terminal Number	Color	Wire Number	Description
25	—	—	Not Used
26	Tan	154	Sump Temperature
27	—	—	Not Used
28	Blue	144	EBS
29	Green	140	No-
30	—	—	Not Used
31	Green	177	PS1
32	Blue	116	Oil Level
33	Tan	159	Ne+
34	Yellow	160	No+
35	Orange	180	Nt+
36	Blue	120	Nt-
37	Orange	139	Ne-



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**Figure G-3. End View of 20-Way AFL Transmission Connector**

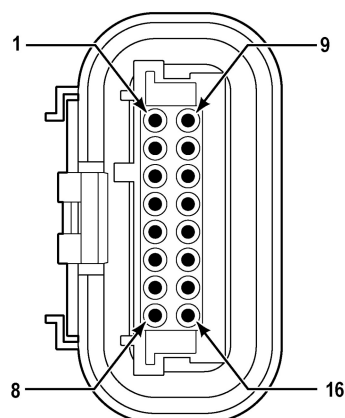
**Table G-4. 20-Way AFL Transmission Connector**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
1	Orange	111	HSD1, Unused TransID, HSD2 (TIDB Only)	TCM-11, MAIN MOD-A, PCS4-A, PCS6-A, Internal WH-20, TCM 76 (OEM Optional), HSD2 (TIDB Only)
2	White	155	PCS4, Low	TCM-55, PCS4-B
3	Green	177	PS1 Input	TCM-77, PS1-A
4	Orange	136	PCS1, Low	TCM-36, PCS1-B
5	Green	152	PCS2, Low	TCM-52, PCS2-B
6	Yellow	171	HSD1, HSD2 (TIDB Only)	TCM-71, PCS1-A, PCS2-A, PCS3-A, SS1-A, HSD2 (TIDB Only)
7	White	178	PCS6, Low (7-speed only)	TCM-78, PCS6-B
8	Blue	174	MAIN MOD Solenoid, Low	TCM-74, MAIN MOD-B

## Appendix G—WIRE/CONNECTOR/VIM CHARTS

**Table G–4. 20-Way AFL Transmission Connector (*cont'd*)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
9	Yellow	133	PCS3, Low	TCM-33, PCS3-B
10	White	151	SS1, Low	TCM-51, SS1-B
11	Yellow	131	HSD3	TCM-31, TCC-A, SS2-A (7-speed only)
12	White	137	TCC Solenoid, Low	TCM-37, TCC-B
13	Orange	180	Turbine Shaft Speed Sensor, High (3000 only)	TCM-80, NT-A
14	Blue	120	Turbine Shaft Speed Sensor, Low (3000 only)	TCM-20, NT-B
15	Blue	116	OLS Input	TCM-16, OLS-B
16	Pink	112	5V Reference Voltage	TCM-12, OLS-C, TPS-C, RMR-C
17	Blue	118	PS2	TCM-18, PS2-A
17	Blue	119	SS2, Low (7-speed only)	TCM-19, SS2-B
18	Tan	154	Sump Temperature Sensor Input	TCM-54 Sump Temp-B
19	Green	158	Analog Return	TCM-58, OLS-A, Sump Temp-A, PS1-B, PS2-B, RMR-A, TPS-A, RTR Temp-B, Engine Water Temp-B
20	Yellow	176	Unused TransID	TCM-76 (OEM Optional), TCM-11, Internal WH-1, HSD1, Main Mod-A, PCS4-A, PCS6-A



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**Figure G–4. SAE J1939 Shift Selector (Pushbutton, Bump Lever, Strip) Connector**

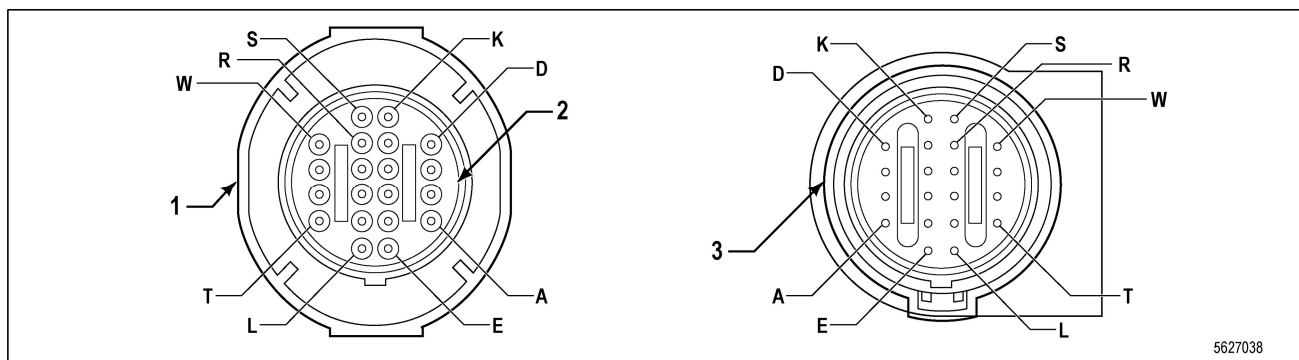
**Table G–5. SAE J1939 Shift Selector (Pushbutton, Bump Lever, Strip)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
1				
2				
3			Dimmer Input	Vehicle System

## Allison 3000 Series™ and 4000 Series™

**Table G–5. SAE J1939 Shift Selector (Pushbutton, Bump Lever, Strip) (cont'd)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
4				
5			Battery Ground	
6			Shift Selector 2 ID	Battery Ground
7			Internal Termination Resistor Jumper, if used	Shift Selector Pin 16
8			CAN1 or CAN2 High	A or H
9				
10				
11		134	PWM Directional Signal	TCM-34
12			Ignition Sense	Vehicle System
13			Battery Voltage	Vehicle System
14			CAN1 or CAN2 Shield	
15			CAN1 or CAN2 Low	B or L
16			Internal Terminal Resistor Jumper, if used	Shift Selector Pin 7



- (1) – Harness  
(2) – Color Code Green

- (3) – Device

(NOTE) – Letters I, O, and Q not used

**Figure G–5. Analog (PDL) Shift Selector (Non-SAE J1939) Connector**

**Table G–6. Analog (PDL) Shift Selector (Non-SAE J1939)**

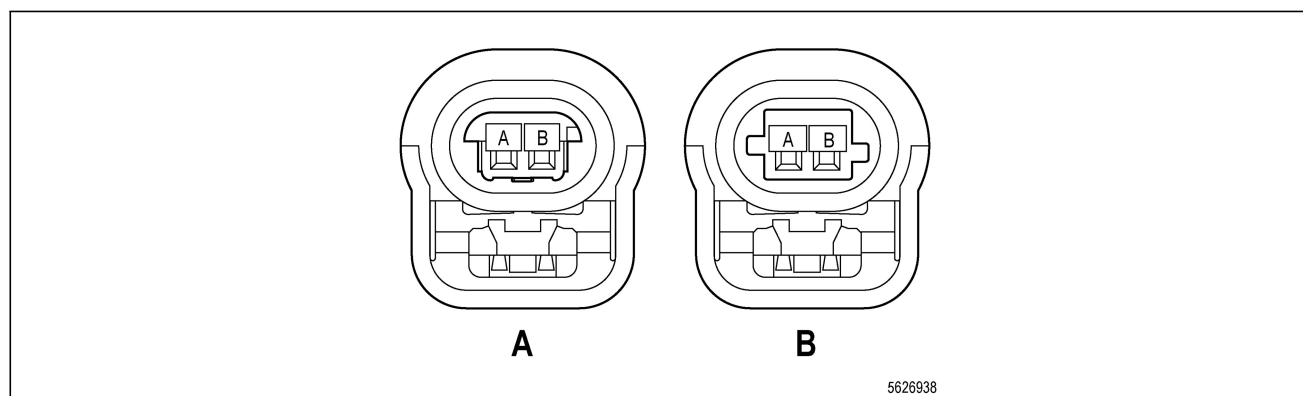
Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	Orange	173	Strip Selector, Data Bit 1	TCM-73
B	Green	153	Strip Selector, Data Bit 2	TCM-53
C	Blue	114	Strip Selector, Data Bit 4	TCM-14
D				
E	Tan	138	Strip Selector, Parity	TCM-38
F				



## Appendix G—WIRE/CONNECTOR/VIM CHARTS

**Table G–6. Analog (PDL) Shift Selector (Non-SAE J1939) (cont'd)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
G				
H				
J				
K				
L	Tan	150	Lamp Ground	TCM-50
M				
N				
P	Yellow	103	Digital Ground	TCM-3
R			Switch Power	Vehicle System
S				
T				
U				
V				
W				



- (A) – “Mushroom” Type Variable Reluctance Speed Sensor Connector
- (B) – “Bow Tie” Type Retarder (PCS5 Solenoid) and Hall Effect Speed Sensor Connector

**Figure G–6. Delphi-Packard GT150 Speed Sensor and Retarder Connectors**

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**Table G-7. ENGINE SPEED SENSOR CONNECTOR**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	Tan	159	Engine Speed Sensor High	TCM-59
B	Orange	139	Engine Speed Sensor Low	TCM-39

**Table G-8. TURBINE SHAFT SPEED SENSOR CONNECTOR (4000 Series Only)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	Orange	180	Turbine Shaft Speed Sensor High	TCM-80
B	Blue	120	Turbine Shaft Speed Sensor Low	TCM-20

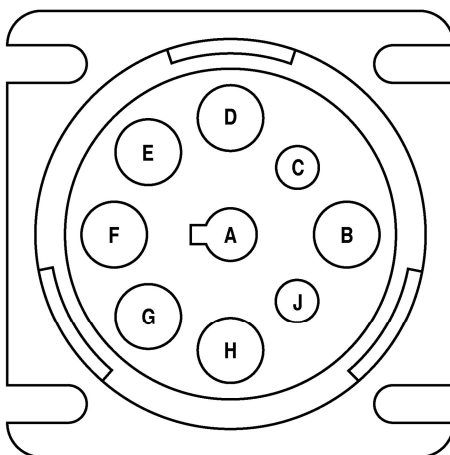
**Table G-9. OUTPUT SHAFT SPEED SENSOR CONNECTOR**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	Yellow	160	Output Shaft Speed Sensor High	TCM-60
B	Green	140	Output Shaft Speed Sensor Low	TCM-40

**Table G-10. Retarder (PCS5 Solenoid)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	White	115	PCS5 Low	TCM-15
B	Yellow	131	PCS5 High	TCM-31, TRANS-11

## Appendix G—WIRE/CONNECTOR/VIM CHARTS



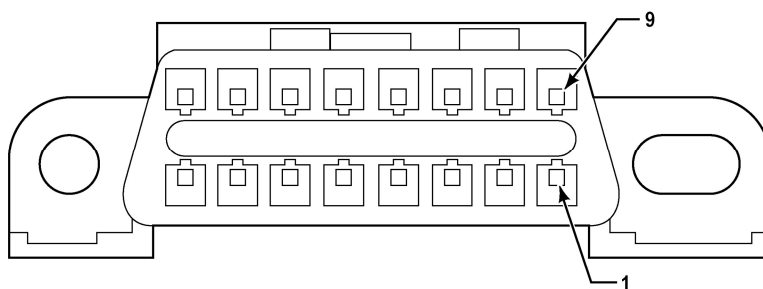
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**Figure G–7. Deutsch Diagnostic Tool Connector**

**Table G–11. 9-Pin Diagnostic Tool Connector For CAN1 or CAN2 (Green)**

Terminal No.	Wire No.	Description	Termination Point(s)
A	109 or 169	Battery Return (–)	TCM-9 or TCM-69
B	110 or 170	Battery Power (+)	TCM-10 or TCM-70
C	128 or 148	CAN1 High	TCM-28 or TCM-48-A/H
C	106 or 166	CAN2 High	TCM-6 or TCM-66-A/H
D	108 or 168	CAN1 Low	TCM-8 or TCM-68-B/L
D	127 or 147	CAN2 Low	TCM-27 or TCM-47-B/L
E	149	CAN1 Shield/ Ground	TCM-49-C/S
E	167	CAN2 Shield	TCM-67-C/S
F	132	Serial Communication (+)	TCM-32, SSI-A
G	172	Serial Communication (–)	TCM-72, SCI-B

## Allison 3000 Series™ and 4000 Series™



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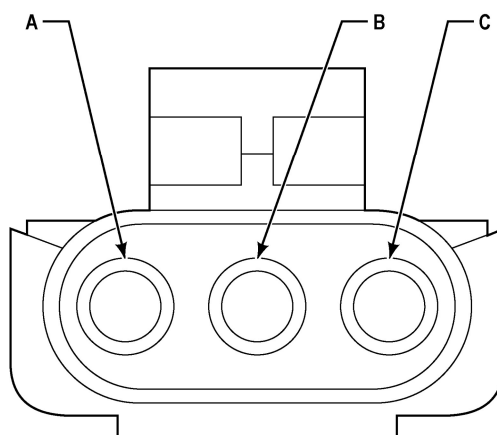
**Figure G–8. GMC Connector for OBD II Diagnostic Adapter**

**Table G–12. Optional OBD II Diagnostic Connector**

Terminal No.*	Color	Wire No.	Description	Termination Point(s)*
1				
2				
3				
4				
5	Gray	109 or 169	Battery Return (–)	TCM-9 or TCM-69, VIWS-P, PSS-P, SSS-P
6		106	CAN2 High	
7	White	132	Serial Communication Interface, High	TCM-32, SCI-A
8				
9				
10				
11				
12				
13				
14		107	CAN2 Low	
15	Blue	172	Serial Communication Interface, Low	TCM-72, SCI-B
16	Yellow	163	Ignition Sense (+)	TCM-63, VIWS-E

\*Terminal number and termination points shown only apply when an Allison Transmission recommended harness configuration and bulkhead connector are used.

## Appendix G—WIRE/CONNECTOR/VIM CHARTS

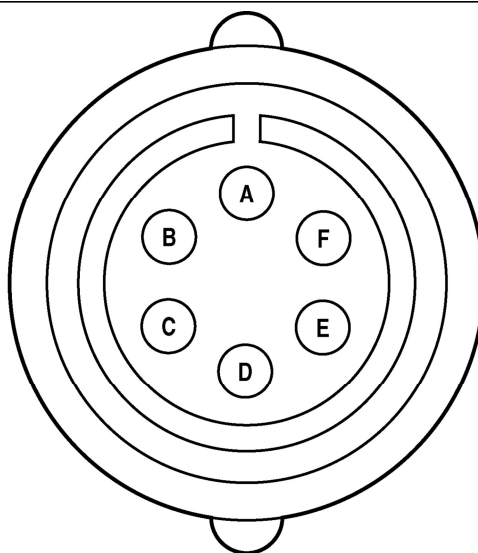


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**Figure G–9. TPS Connector**

**Table G–13. TPS CONNECTOR**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	Green	158	Analog Return	TCM-58, TRANS-19, RMR-A
B	Blue	144	TPS Signal	TCM-44
C	Pink	112	TPS High	TCM-12, RMR-C, TRANS-16



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**Figure G–10. Transfer Case Connector (3000 Series 7-Speed)**

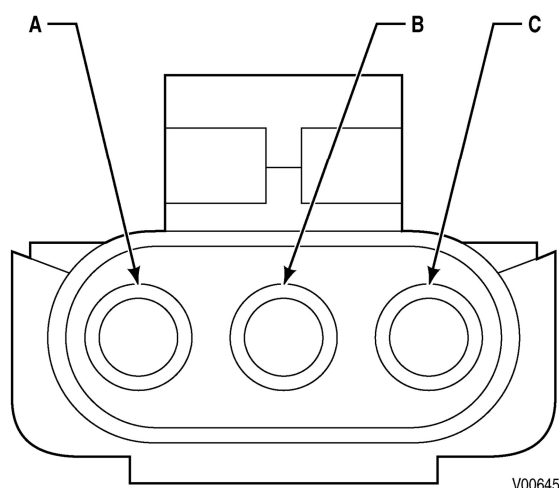
**Table G–14. Transfer Case Connector (3000 Series 7-Speed Only)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	White	115	PCS5 (Diff Lock) Low	TCM-15
B	Yellow	131	PCS5 (Diff Lock) High	TCM-31, TRANS-11

## Allison 3000 Series™ and 4000 Series™

**Table G–14. Transfer Case Connector (3000 Series 7-Speed Only) (cont'd)**

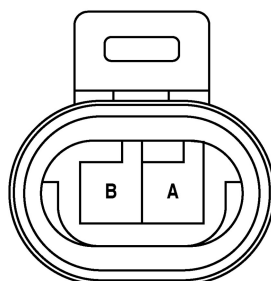
Terminal No.	Color	Wire No.	Description	Termination Point(s)
C	Yellow	160	Output Shaft Speed Sensor High	TCM-60
D	Green	140	Output Shaft Speed Sensor Low	TCM-40



**Figure G–11. Retarder Resistance Module/Interface Connector**

**Table G–15. Retarder Resistance Module/Interface Connector**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	Green	158	Analog Return	TCM-58, TRANS-19, TPS-A, Engine Water Temp-B, RMR-A, Retarder Temp-B
B	Yellow	156	Retarder Mod.	TCM-56
C	Pink	112	Retarder Mod. High	TCM-12, TRANS-16, TPS-C

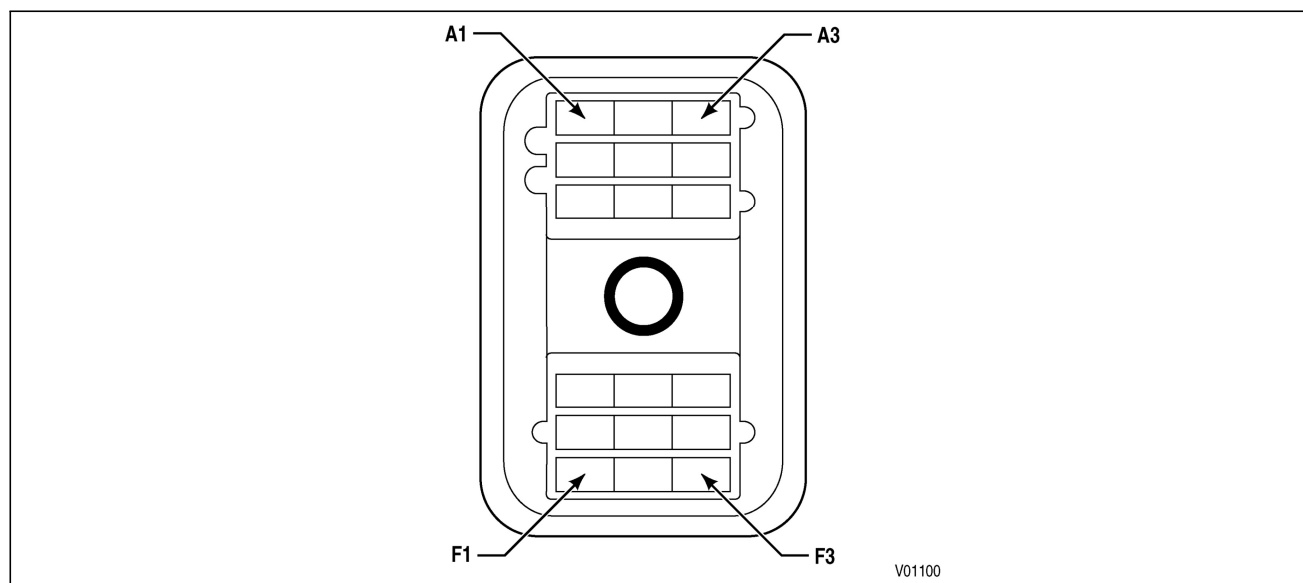


**Figure G–12. Retarder Temperature Sensor Connector (3000 and 4000 Series)**

## Appendix G—WIRE/CONNECTOR/VIM CHARTS

**Table G–16. Retarder Temperature Sensor Connector 3000 and 4000 Series**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	Orange	175	Retarder Temperature Input	TCM-75
B	Green	158	Analog Return	TCM-58, TRANS-19, RMR-A, TPS-A, Engine Water Temp-B



**Figure G–13. VIM Connector (Harness)**

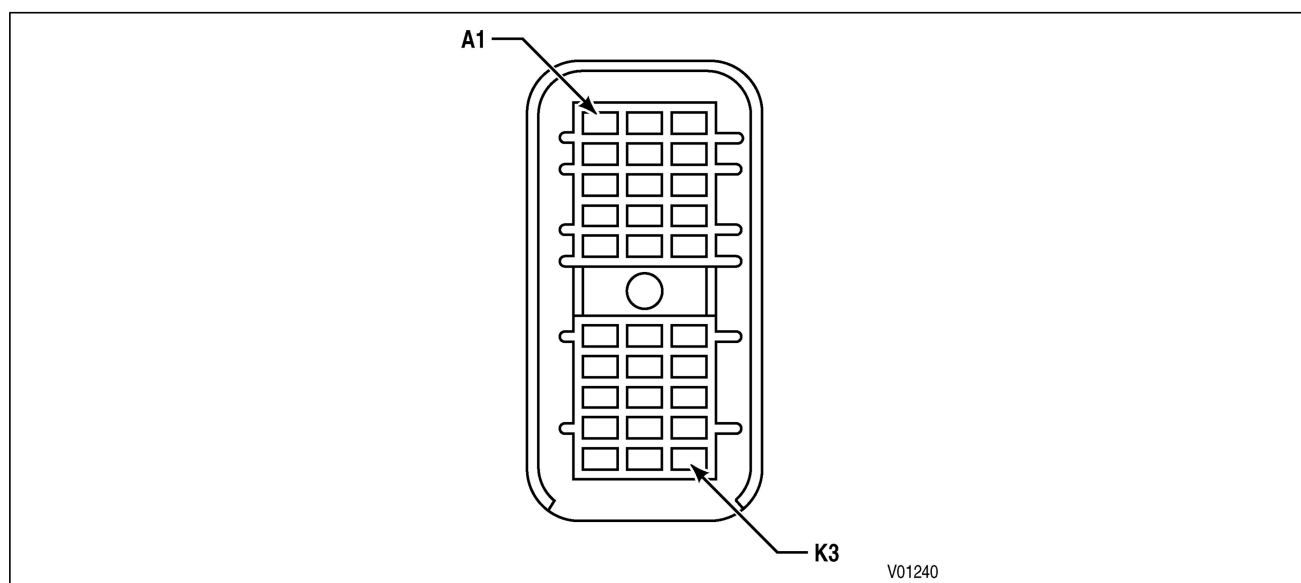
**Table G–17. VIM Connector (Harness)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A1	Gray	169	Battery Return (–)	TCM-69
A2	Gray	109	Battery Return (–)	TCM-9
A3			Reserved	
B1	Yellow	104	GPO 2	TCM-4
B2	Tan	125	Speedometer Signal	TCM-25
B3			Reserved	
C1			Reserved	
C2	White	124	GPO 4	TCM-24
C3			Reserved	
D1	Tan	141	Neutral Start	TCM-41
D2	Orange	130	GPO 3	TCM-45
D3			Reserved	
E1	Pink	170	Reserved	TCM-70
E2	Pink	110	Battery Power (+)	TCM-10
E3			Reserved	

## Allison 3000 Series™ and 4000 Series™

**Table G–17. VIM Connector (Harness) (cont'd)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
F1	Yellow	163	Ignition Sense (+)	TCM-63
F2	Tan	165	Reverse Warning	TCM-65
F3	White	145	GPO 1	TCM-30



**Figure G–14. VIM Connector (Harness)**

**Table G–18. VIM Connector (Harness 30-Way)**

Terminal No.	Color*	Wire No.*	Description	Termination Point(s)*
A1			Reverse Warning Relay—Normally Open	
A2			Output Wire 145 Relay—Common	
A3			Output Wire 145 Relay—Normally Open	
B1			Reverse Warning Relay—Common	
B2			Output Wire 145 Relay—Normally Closed	
B3			Reserved	
C1			Ignition Power	
C2			Output Wire 130 Relay—Normally Closed	
C3			Reserved	
D1			Output Wire 124 Relay—Normally Closed	
D2			Output Wire 104 Relay—Normally Closed	
D3			Reserved	
E1			Output Wire 124 Relay—Common	
E2			Output Wire 104 Relay—Common	
E3			Output Wire 104 Relay—Normally Open	

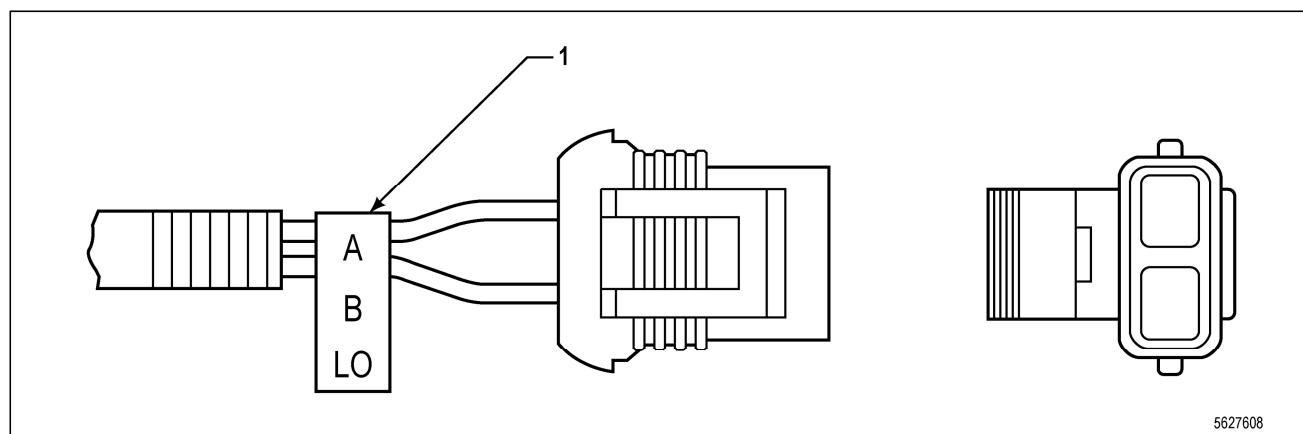


## Appendix G—WIRE/CONNECTOR/VIM CHARTS

**Table G–18. VIM Connector (Harness 30-Way) (cont'd)**

Terminal No.	Color*	Wire No.*	Description	Termination Point(s)*
F1			Neutral Start Relay—Normally Open	
F2			Output Wire 130 Relay—Common	
F3			Output Wire 130 Relay—Normally Open	
G1			Neutral Start Relay—Common	
G2			Reserved	
G3			Reserved	
H1			Reserved	
H2			Speedometer—Unfiltered	
H3			Reserved	
J1			Battery Power	
J2			Battery Power	
J3			Reserved	
K1			Battery Return	
K2			Battery Return	
K3			Reserved	

\*Colors, wire numbers, and termination points are determined by OEM electrical system design.



(1) – Label Indicates Pressure Level

**Figure G–15. Resistance Module Type 2—Single Pressure Switch and SCI**

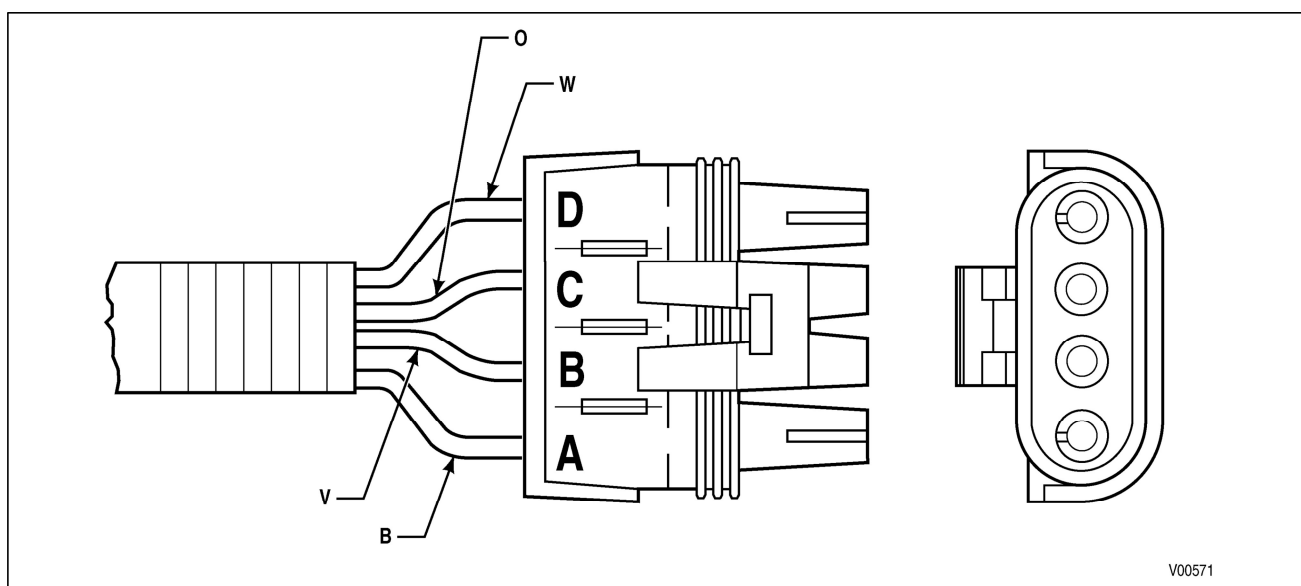
**Table G–19. Resistance Module Type 2**

Terminal No.
A
B

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**Table G-20. SCI Connector**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	White	132	Serial Communication Interface, High	TCM-32, 9-pin Diagnostic Tool Connector-F
B	Blue	172	Serial Communication Interface, Low	TCM-72, 9-pin Diagnostic Tool Connector-G

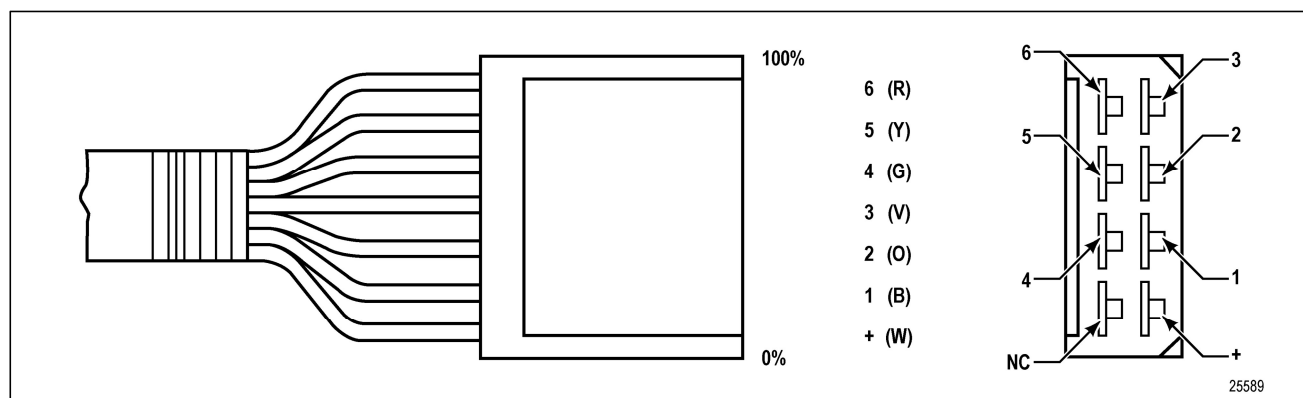


**Figure G-16. Resistance Module Type 3-Bendix E-10R Pedal**

**Table G-21. Resistance Module Type 3**

Terminal No.	Wire Color
A	Blue
B	Violet
C	Orange
D	White

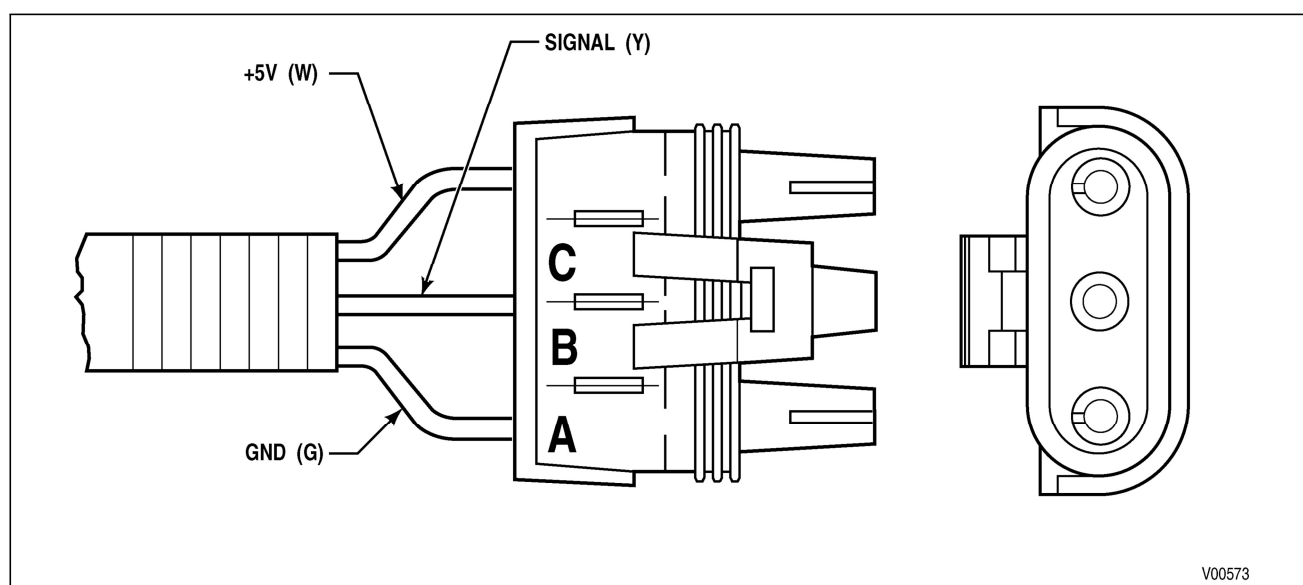
## Appendix G—WIRE/CONNECTOR/VIM CHARTS



**Figure G-17. Resistance Module Type 5—Hand Lever**

**Table G-22. Resistance Module Type 5**

Terminal No.	Wire Color
+	White
1	Blue
2	Orange
3	Violet
4	Green
5	Yellow
6	Red



**Figure G-18. Resistance Module Type 7—Dedicated Pedal**

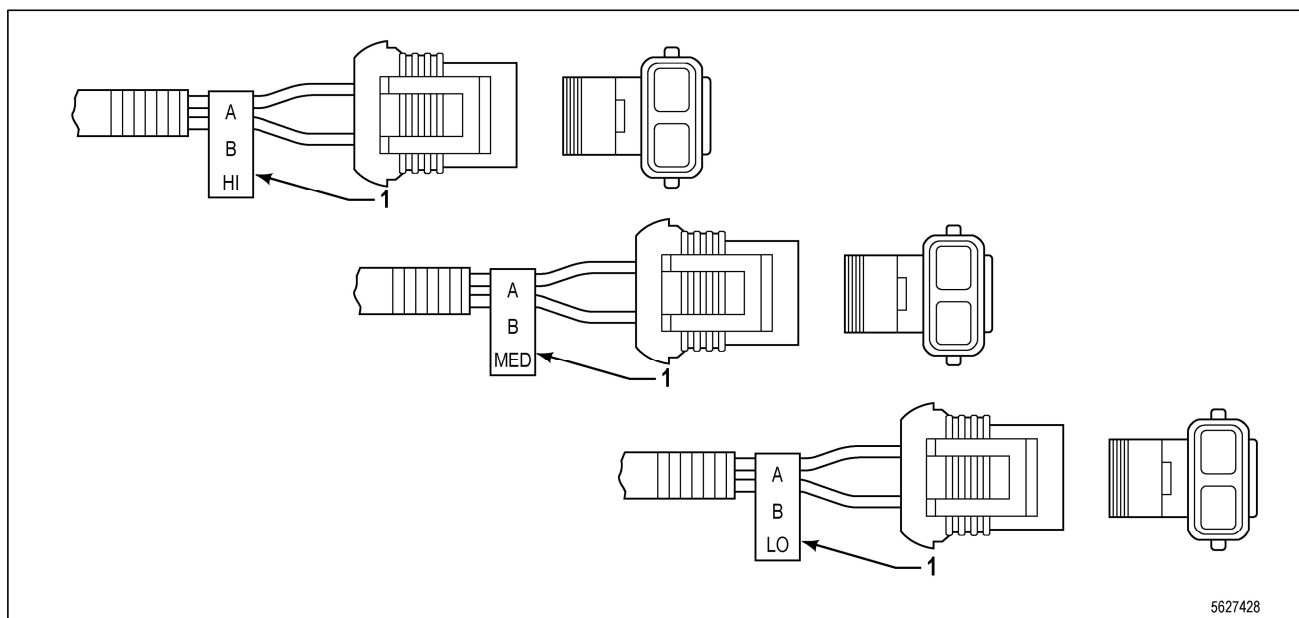
**Table G-23. Resistance Module Type 7**

Terminal No.	Wire Color
A	Green

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**Table G-23. Resistance Module Type 7 (cont'd)**

B	Yellow
C	White



(1) – Label Indicates Pressure Level

**Figure G-19. Resistance Module Type 8—Three Pressure Switch**

**Table G-24. Resistance Module Type 8**

## Low Pressure

Terminal No.	Wire Color
A	White
B	Blue

**Table G-25. Resistance Module Type 8**

## Medium Pressure

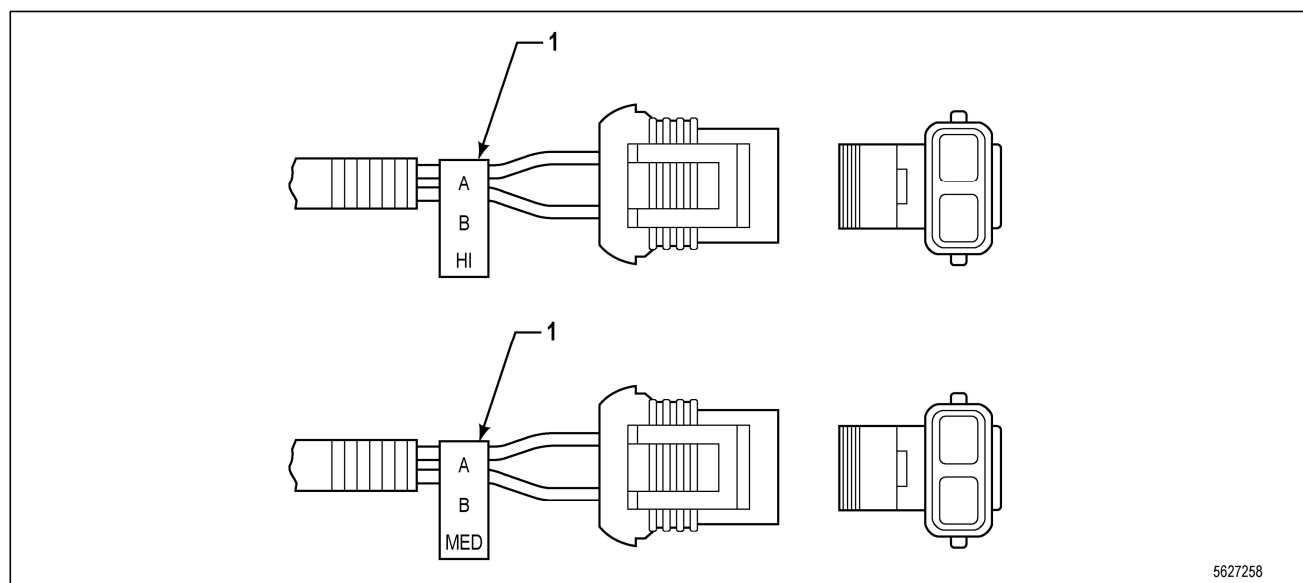
Terminal No.	Wire Color
A	White
B	Orange

**Table G-26. Resistance Module Type 8**

## High Pressure

Terminal No.	Wire Color
A	White
B	Violet

## Appendix G—WIRE/CONNECTOR/VIM CHARTS



(1) – Label Indicates Pressure Level

**Figure G-20. Resistance Module Type 9—Two Pressure Switch**

**Table G-27. Resistance Module Type 9**

### Medium Pressure

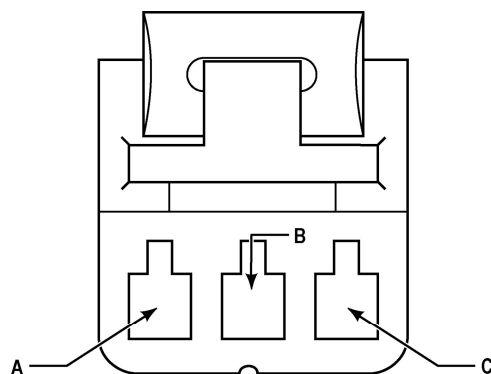
Terminal No.	Wire Color
A	White
B	Orange

**Table G-28. Resistance Module Type 9**

### High Pressure

Terminal No.	Wire Color
A	White
B	Violet

## Allison 3000 Series™ and 4000 Series™

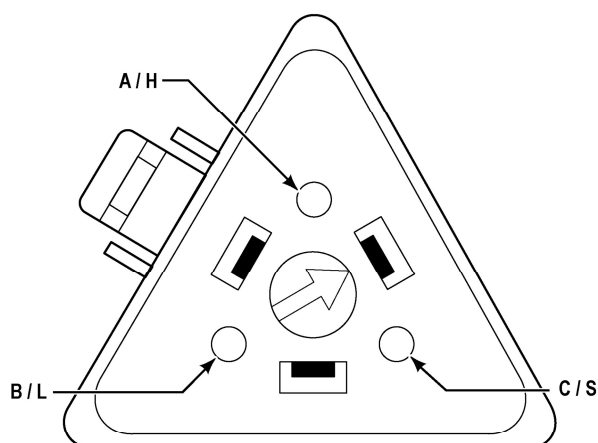


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**Figure G-21. Oil Level Sensor Plug**

**Table G-29. 3-Way Connector (Redesigned OLS)**

Terminal No.	Color	Wire No.	Description	Termination Point(s) 20-Way Feed Through Harness Connector
A	Black	158	Analog Return	TRANS-19
B	White	116	OLS Input	TRANS-15
C	Red	112	Sensor Power	TRANS-16



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**Figure G-22. CAN Interface Connector**

**Table G-30. SAE J1939 Interface Connector**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A or H	Yellow	128 and/or 148	CAN1 High	TCM-28 and/or TCM-48

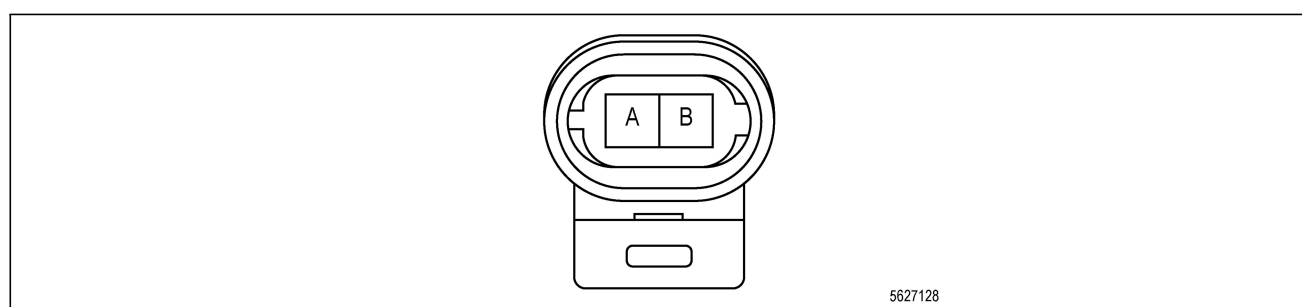
## Appendix G—WIRE/CONNECTOR/VIM CHARTS

**Table G–30. SAE J1939 Interface Connector (cont'd)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A or H	Yellow	106 and/or 166	CAN2 High	TCM-6 and/or TCM-66
B or L	Green	108 and/or 168	CAN1 Low	TCM -8 and/or TCM-68
B or L	Green	127 and/or 147	CAN2 Low	TCM-27 and/or TCM-47
C or S	N/A	149	CAN1 Shield	TCM-49
C or S	N/A	167	CAN2 Shield	TCM-67

**Table G–31. IES CAN Interface Connector**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A or H	Yellow	106	CAN Controller #2, High	TCM-6 and/or TCM-66
B or L	Green	127	CAN Controller #2, Low	TCM-27 and/or TCM-47
C or S	N/A	167	CAN Shield #2	TCM-67



**Figure G–23. Retarder Accumulator Solenoid Connector (SS2 Solenoid)**

**Table G–32. Accumulator (SS2) Solenoid**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	Blue	119	SS2 Low	TCM-19
B	Yellow	131	SS2 High	TCM-31, TRANS-11