

APPENDIX D—WIRE/CONNECTOR CHART

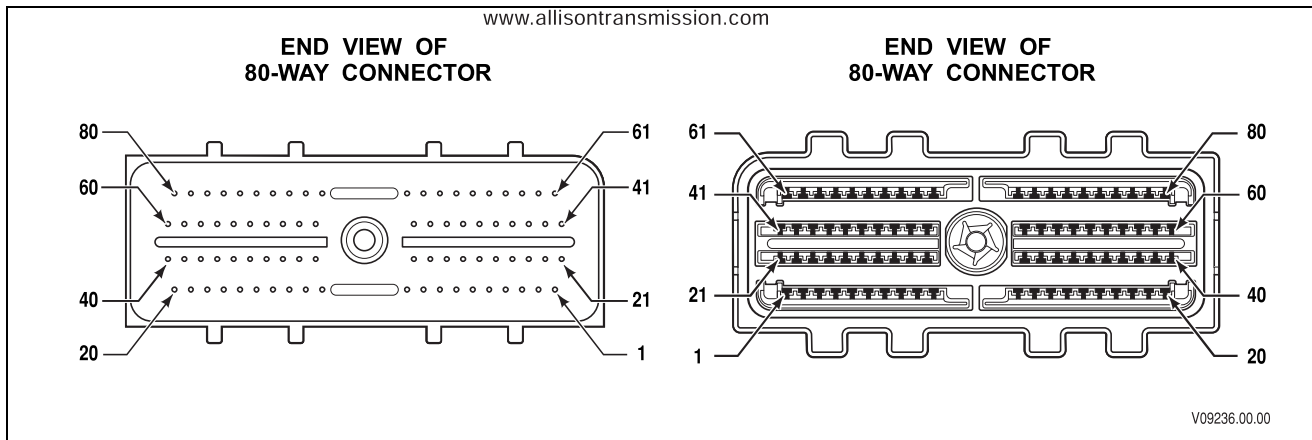


Figure D-1. 80-Way TCM Connector

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	CAN 2 High (+)	IES CAN A or H
7	Yellow	107	Internal Terminating Resistor CAN 1 (TCM)	Vehicle System
8	Green	108	CAN 1 Low (-)	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)
12	Pink	112	Signal Reference 5V	Trans Connector (Pin 16) TPS (Pin C) RMR (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
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 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 CAN 2 (TCM)	Vehicle System
27	Green	127	CAN 2 Low (-)	IES CAN B or L
28	Yellow	128	CAN 1 High (+)	J1939 A or H
29	Green	129	CHECK TRANS (-)	Vehicle System

APPENDIX D—WIRE/CONNECTOR CHART**80-Way TCM Connector (cont'd)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
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	White	132	SAE J1708 High	J1708 High
33	Yellow	133	PCS3	Trans Connector (Pin 9)
34	No Color	134	Allison-supplied J1939 Shift Selector	Allison 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 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	N/A	146	ISO 9141	Vehicle System
47	Green	147	CAN 2 Low	IES CAN B or L
48	Yellow	148	CAN 1 High	J1939 A or H
49	N/A	149	CAN 1 Shield	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 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	CAN 2 High	IES CAN A or H
67	N/A	167	CAN 2 Shield	IES CAN C or S
68	Green	168	CAN 1 Low	J1939 B or L
69	Gray	169	Battery (-)	Vehicle System or VIM-A1
70	Pink	170	Battery (+)	Vehicle System or VIM-E1
71	Yellow	171	HSD2	Trans Connector (Pin 6)
72	Blue	172	SAE J1708 Low	J1708 Low
73	Orange	173	Strip Shift Selector Bit-1	Strip Shift Selector (Pin A)

APPENDIX D—WIRE/CONNECTOR CHART**80-Way TCM Connector (cont'd)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
74	Blue	174	MAIN MOD Solenoid	Trans Connector (Pin 8)
75	Orange	175	Retarder Temperature	Retarder Temp (Pin A)
76	Yellow	176	TransID	Trans Connector (Pin 20)
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	181	Turbine Speed Sensor—High	NT-A (4000) or Trans Connector (Pin 13) (3000)

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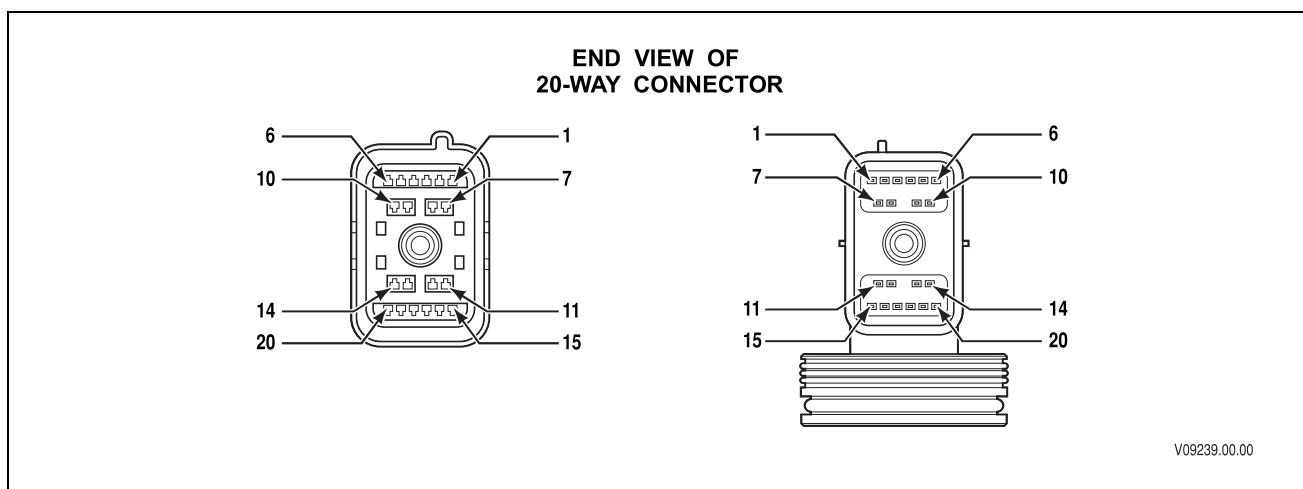


Figure D-2. 20-Way AFL Transmission Connector

20-Way AFL Transmission Connector

Terminal No.	Recommended Wire Color	Wire No.	Description	Termination Point(s)
1	Orange	111	HSD1	TCM-11, TID Wire 176, MAIN MOD-A, PCS4-A, PCS6-A
2	White	155	PCS4, Low	TCM-55, PCS4-B
3	Green	177	Pressure Switch 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	HSD2	TCM-71, PCS1-A, PCS2-A, PCS3-A, SS1-A
7	White	178	PCS6, Low (7-speed only)	TCM-78, PCS6-B
8	Blue	174	MAIN MOD Solenoid, Low	TCM-74, MAIN MOD-B
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 Speed Sensor, High (3000 only)	TCM-80, NT-A
14	Blue	120	Turbine 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	119	SS2, Low (7-speed only)	TCM-19, SS2-B
18	Tan	154	Sump Temperature Sensor Input	TCM-58, Sump Temp-B
19	Green	158	Analog Return	TCM-58, OLS-A, Sump Temp-A, PS1-B, RMR-A, TPS-A, RTR Temp-B, Engine Water Temp-B
20	Yellow	176	TransID	TCM-76, Wire 111