

APPENDIX D—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 ECU, 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 WTEC III wiring harness(es).*

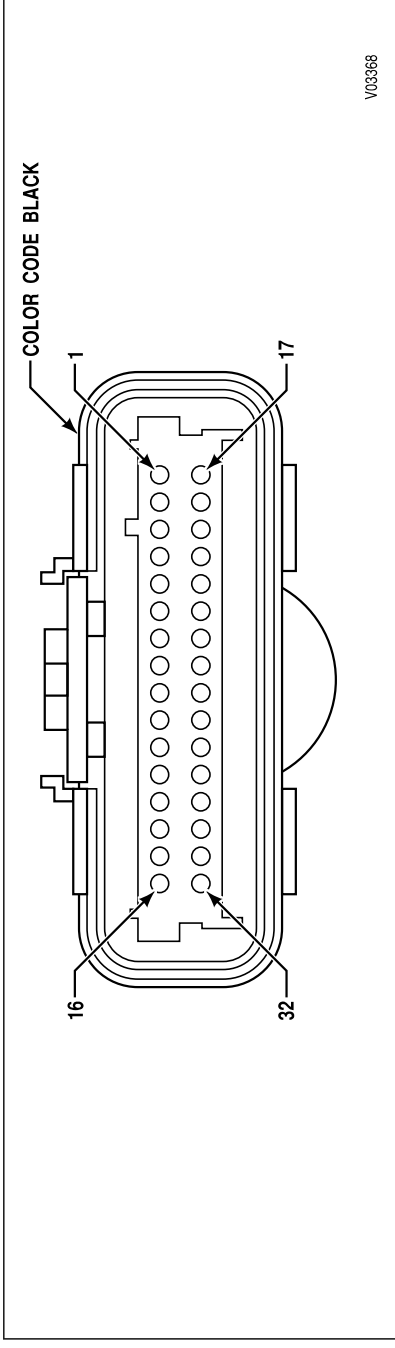
Table D–1. Appendix D Abbreviation Guide

Termination Point Abbreviation	Connector Name
ARTN	Analog Return
ASOL	Solenoid A—Transmission Control Module
BSOL	Solenoid B—Transmission Control Module
C3PS	C3 Pressure Switch—Control Module
CSOL	Solenoid C—Transmission Control Module
DDRD	Diagnostic Connector—Deutsch
DDRP	Diagnostic Connector—Packard
DSOL	Solenoid D—Transmission Control Module
ECU–S	Electronic Control Unit—Selector (S) Connector
ECU–V	Electronic Control Unit—Vehicle (V) Connector
ECU–T	Electronic Control Unit—Transmission (T) Connector
ESOL	Solenoid E—Transmission Control Module
FSOL	Solenoid F—Transmission Control Module
GSOL	Solenoid G—Transmission Control Module
HSOL	Retarder H Solenoid—Retarder Housing Or Retarder Valve Body
J1939	J1939 Datalink From ECU Selector (S) Harness
JSOL	Solenoid J—Transmission Control Module (7-Speed Only)
NE	Engine Speed Sensor
NO	Output Speed Sensor
NSOL	Retarder Accumulator Solenoid
NSOL	Solenoid N—Transmission Control Module (7-Speed Only)
NT	Turbine Speed Sensor
OBDII	Diagnostic Connector—GMC On Board Diagnostics
OLS	Oil Level Sensor
PSS	Primary Shift Selector
RMOD	Retarder Module (Units Built Prior To 1/98)
RMR	Retarder Modulation Request Device
RNGTRM	Chassis Ground Ring Terminal
RTEMP	Retarder Temperature—Retarder Housing

APPENDIX D—WIRE/CONNECTOR CHART**Table D–1. Appendix D Abbreviation Guide (*cont'd*)**

Termination Point Abbreviation	Connector Name
SCI	Serial Communication Interface
SSS	Secondary Shift Selector
TCASE	3000 Product Family 7-Speed Transfer Case
TPS	Throttle Position Sensor
TRANS	Transmission Feedthrough Harness
VIM	Vehicle Interface Module
VIWS	Vehicle Interface Wiring—ECU Selector (S) Harness
VIWV	Vehicle Interface Wiring—ECU Vehicle (V) Harness

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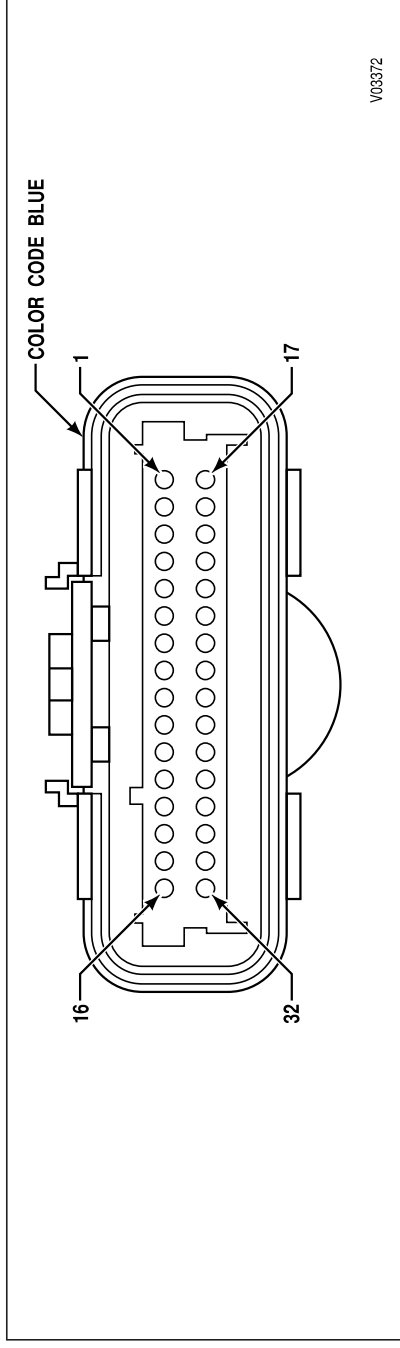


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Figure D-1. ECU Connector “S”

ECU CONNECTOR “S” (BLACK)

Terminal No.	Color	Wire No.	Description	Termination Point(s)
1	White	142-S1	Serial Communication Interface, High	DDRP-J, DDRD-A, OBDII-7
2	Tan	159-S2	Diagnostic Communication Link (ISO9141)	VIWS-A
3	Pink	124-S3	Sensor Power	RMR-C, PSS-N, SSS-N
4	Yellow	146-S4	Ignition Sense	VIWS-E, DDRP-H, DDRD-C, OBDII-16
5	Orange	170-S5	Primary Shift Selector, Data Bit 1	PSS-A
6	Green	171-S6	Primary Shift Selector, Data Bit 2	PSS-B
7	Blue	172-S7	Primary Shift Selector, Data Bit 4	PSS-C
8	Yellow	173-S8	Primary Shift Selector, Data Bit 8	PSS-D
9	Tan	174-S9	Primary Shift Selector, Parity	PSS-E
10	Green	175-S10	Shift Selector Mode Input	PSS-M, SSS-M
11	Yellow	119-S11	General Purpose Input 4	VIWS-M
12	Green	182-S12	CAN Controller Shield (J1939)	J1939C
13	Pink	183-S13	CAN Controller, High (J1939)	J1939A
14	Blue	180-S14	Shift Selector Display	PSS-S, SSS-S
15	Orange	176-S15	General Purpose Output 6	PSS-L, SSS-L, VIWS-L
16	Pink	136-S16	Selector Power	PSS-R, SSS-R
17	Blue	151-S17	Serial Communication Interface, Low	DDRP-K, DDRD-B, OBDII-15
18	Tan	166-S18	General Purpose Output 7	VIWS-N
19	Green	135-S19	Analog Return	RMR-A
20	Yellow	164-S20	Retarder Modulation Request	RMR-B
21	Orange	190-S21	Secondary Shift Selector, Data Bit 1	SSS-A
22	Green	191-S22	Secondary Shift Selector, Data Bit 2	SSS-B
23	Blue	192-S23	Secondary Shift Selector, Data Bit 4	SSS-C
24	Yellow	193-S24	Secondary Shift Selector, Data Bit 8	SSS-D
25	Tan	194-S25	Secondary Shift Selector, Parity	SSS-E
26	Blue	169-S26	General Purpose Input 12	VIWS-S
27	Blue	163-S27	General Purpose Input 6	VIWS-R
28	Yellow	126-S28	General Purpose Input 9	VIWS-C
29	Gray	184-S29	CAN Controller, Low (J1939)	J1939-B
30	Tan	157-S30	Vehicle Speed	VIWS-D
31	Green	115-S31	Check Transmission	VIWS-B
32	Gray	143-S32	Selector Return	PSS-P, SSS-P, VIWS-P, DDRP-A, DDRD-E, OBDII-5

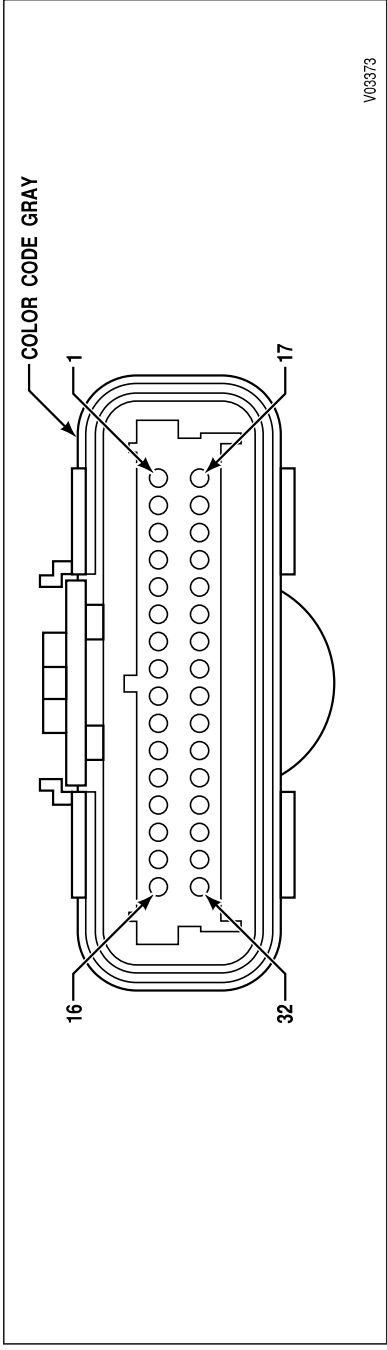
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Figure D-2. ECU Connector "T" (BLUE)**ECU CONNECTOR "T" (BLUE)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
1	Orange	102-T1	Solenoid Power, Solenoids A, D, and J (MD 3070 only)	TRANS-A
2	Tan	121-T2	Solenoid Power, Solenoids B and E	TRANS-H
3	Green	107-T3	Solenoid Power, F Solenoid	TRANS-E
4	White	120-T4	A Solenoid, Low	TRANS-G
5	Green	103-T5	C Solenoid, Low	TRANS-B
6	Tan	129-T6	E Solenoid, Low	TRANS-K
7	White	104-T7	G Solenoid, Low	TRANS-C
8	Blue	111-T8	J Solenoid, Low	TRANS-e
9	Pink	124-T9	Sensor Power	TRANS-D, TPS-C, RMR-C
10	Blue	156-T10	Throttle Position Sensor	TPS-B
11	Yellow	164-T11	Retarder Modulation Request	RMR-B
12	White	162-T12	C3 Pressure Switch Input	TRANS-X
13	Yellow	195-T13	Transmission Identification	TRANS-W
14	Tan	141-T14	Engine Speed Sensor, High	NE-A
15	Orange	149-T15	Turbine Speed Sensor, High	NT-A (4000), TRANS-V (3000)
16	Yellow	139-T16	Output Speed Sensor, High	NO-A, TCASE-C (3000 7-Speed), RMOD-C (3000 Retarder)
17	Yellow	130-T17	Solenoid Power, Solenoids C and G	TRANS-L
18				
19	Yellow	116-T19	Solenoid Power, Solenoids H and N	HSOL-B, NSOL-B, TRANS-g, TCASE-B (3000 7-Speed), RMOD-B (3000 Retarder)
20	Orange	128-T20	B Solenoid, Low	TRANS-J
21	Blue	131-T21	D Solenoid, Low	TRANS-M
22	White	110-T22	F Solenoid, Low	TRANS-F
23	White	127-T23	H Solenoid, Low	HSOL-A (4000), RMOD-A (3000 Retarder), TCASE-A (3000 7-Speed)
24	Blue	101-T24	N Solenoid, Low	NSOL-A (4000 and 3000), TRANS-f (3000 7-Speed)
25	Green	135-T25	Analog Return	RMR-A, RTEMP-B (4000), RMOD-F (3000)
26	Blue	165-T26	Oil Level Sensor Input	TRANS-Y
27	Tan	147-T27	Sump Temperature Sensor Input	TRANS-P
28	Orange	138-T28	Retarder Temperature Sensor Input	RTEMP-A (4000), RMOD-E (3000)
29				
30	Orange	150-T30	Engine Speed Sensor, Low	NE-B
31	Blue	140-T31	Turbine Speed Sensor, Low	NT-B, TRANS-U (3000)
32	Green	148-T32	Output Speed Sensor, Low	NO-B, TCASE-D (3000 7-Speed), RMOD-D (3000 Retarder)

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Figure D-3. ECU Connector “V”

ECU CONNECTOR “V” (GRAY)

Terminal No.	Color	Wire No.	Description	Termination Point(s)
1	Pink	136-V1	Battery Power	VIM-E1
2	White	114-V2	General Purpose Output 1	VIM-F3
3	Orange	132-V3	General Purpose Output 2	VIM-B1
4	White	113-V4	Reverse Warning	VIM-F2
5	White	167-V5	General Purpose Output 8	VIWV-V
6	Tan	123-V6	Neutral Start	VIM-D1
7				
8	Pink	124-V8	Sensor Power	TPS-C
9	Blue	179-V9	Engine Water Temperature	VIWV-M
10	Blue	156-V10	Throttle Position Sensor	TPS-B
11	Green	155-V11	General Purpose Input 1	VIWV-A
12	Yellow	153-V12	General Purpose Input 2	VIWV-B
13	Blue	118-V13	General Purpose Input 3	VIWV-C
14	Tan	177-V14	General Purpose Input 10	VIWV-S
15				
16	Pink	136-V16	Battery Power	VIM-E2
17	Gray	143-V17	Battery Return	VIM-A1
18	White	125-V18	General Purpose Output 4	VIM-C2
19	Green	105-V19	General Purpose Output 5	VIWV-E
20	Tan	157-V20	Vehicle Speed	VIM-B2
21				
22	Tan	112-V22	General Purpose Output 3	VIM-D2
23				
24	Green	135-V24	Analog Return	TPS-A, VIWV-N
25	Gray	144-V25	Case Connection	RNGTRM
26	Yellow	146-V26	Ignition Sense	VIM-F1
27	White	154-V27	General Purpose Input 5	VIWV-D
28	Orange	178-V28	General Purpose Input 11	VIWV-R
29	Orange	137-V29	General Purpose Input 7	VIWV-U
30	Green	117-V30	General Purpose Input 8	VIWV-P
31	Yellow	161-V31	Digital Return (GPI)	VIWV-L
32	Gray	143-V32	Battery Return	VIM-A2

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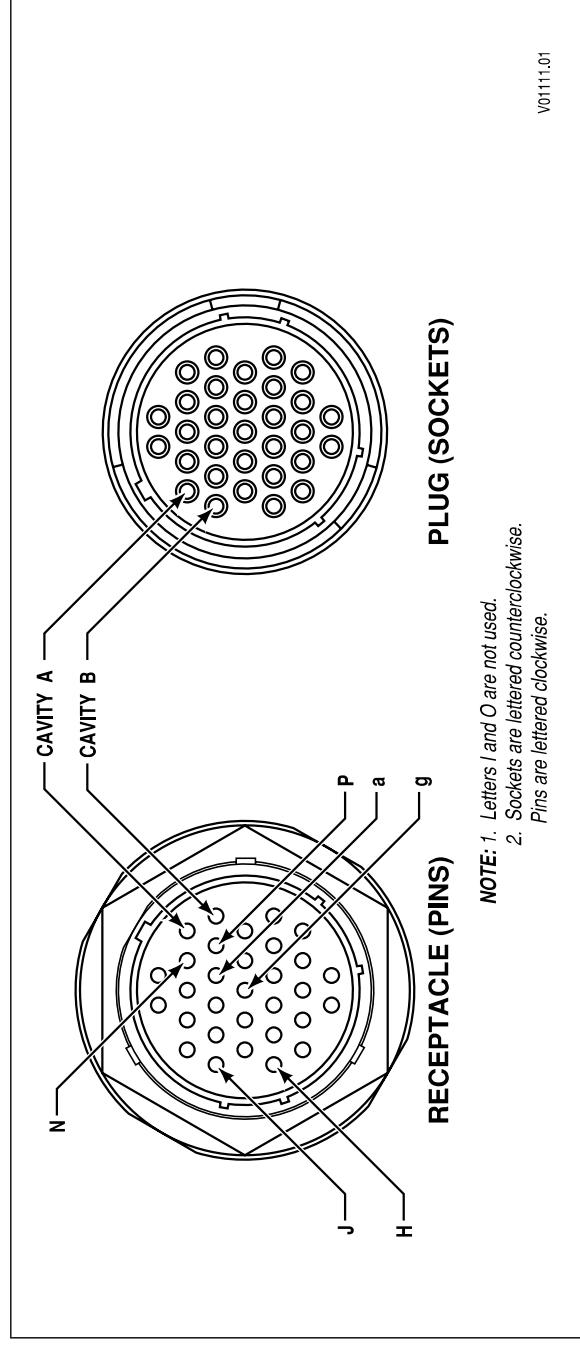


Figure D-4. Deutsch Bulkhead Connector, ECD

BULKHEAD CONNECTOR FOR “S” HARNESS (Plug With Sockets, Receptacle With Pins)

Terminal No.*	Color	Wire No.	Description	Termination Points*
A	Tan	159-S2	Diagnostic Communication Link (ISO 9141)	ECU-S2, VIWS-A
B	Green	115-S31	Check Transmission	ECU-S31, VIWS-B
C	Yellow	126-S28	General Purpose Input 9	ECU-S28, VIWS-C
D	Pink	124-S3	Sensor Power	ECU-S3, RMR-C, PSS-N, SSS-N
E	Yellow	146-S4	Ignition Sense	ECU-S4, VIWS-E, DDRP-H, DDRD-C, OBDII-16
F	Orange	170-S5	Primary Shift Selector, Data Bit 1	ECU-S5, PSS-A
G	Pink	136-S16	Selector Power	ECU-S16, PSS-R, SSS-R
H	White	142-S1	Serial Communication Interface, High	ECU-S1, DDRP-J, DDRD-A, OBDII-7, SCL-A
J	Blue	172-S7	Primary Shift Selector, Data Bit 4	ECU-S7, PSS-C
K	Blue	151-S17	Serial Communication Interface, Low	ECU-S17, DDRP-K, DDRD-B, OBDII-15, SCL-B
L	Orange	176-S15	General Purpose Output 6	ECU-S15, PSS-L, SSS-L, VIWS-L
M	Yellow	119-S11	General Purpose Input 4	ECU-S11, VIWS-M
N	Green	135-S19	Analog Return	ECU-S19, RMR-A
P	Gray	143-S32	Selector Return	ECU-S32, PSS-P, SSS-P, VIWS-P, DDRP-A, DDRD-E, OBDII-5
Q	Green	171-S6	Primary Shift Selector, Data Bit 2	ECU-S6, PSS-B
R	Blue	163-S27	General Purpose Input 6	ECU-S27, VIWS-R
S	Yellow	173-S8	Primary Shift Selector, Data Bit 8	ECU-S8, PSS-D
T	Tan	174-S9	Primary Shift Selector, Parity	ECU-S9, PSS-E
U	Green	175-S10	Shift Selector Mode Input	ECU-S10, PSS-M, SSS-M
V	Blue	180-S14	Shift Selector Display	ECU-S14, PSS-S, SSS-S
W	Tan	166-S18	General Purpose Output 7	ECU-S18, VIWS-N
X	Blue	169-S26	General Purpose Input 12	ECU-S26, VIWS-S

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

APPENDIX D—WIRE/CONNECTOR CHART**BULKHEAD CONNECTOR FOR “S” HARNESS (Plug With Sockets, Receptacle With Pins) (*cont’d*)**

Terminal No.*	Color	Wire No.	Description	Termination Points*
Y	Orange	190-S21	Secondary Shift Selector, Data Bit 1	ECU-S21, SSS-A
Z				
a	Yellow	164-S20	Retarder Modulation Request	ECU-S20, RMR-B
b	Green	191-S22	Secondary Shift Selector, Data Bit 2	ECU-S22, SSS-B
c	Blue	192-S23	Secondary Shift Selector, Data Bit 4	ECU-S23, SSS-C
d	Tan	157-S30	Vehicle Speed	ECU-S30, VIWS-D
e	Yellow	193-S24	Secondary Shift Selector, Data Bit 8	ECU-S24, SSS-D
f	Tan	194-S25	Secondary Shift Selector, Parity	ECU-S25, SSS-E
g				

BULKHEAD CONNECTOR FOR “T” HARNESS (Receptacle With Sockets, Plug With Pins)

Terminal No.*	Color	Wire No.	Description	Termination Points*
A	Orange	102-T1	Solenoid Power, Solenoids A, D, and J (MD 3070 only)	ECU-T1, TRANS-A
B	Green	103-T5	C Solenoid, Low	ECU-T5, TRANS-B
C	White	104-T7	G Solenoid, Low	ECU-T7, TRANS-C
D	Pink	124-T9	Sensor Power	ECU-T9, TRANS-D, TPS-C, RMR-C
E	Green	107-T3	Solenoid Power, F Solenoid	ECU-T3, TRANS-E
F	White	110-T22	F Solenoid, Low	ECU-T22, TRANS-F
G	White	120-T4	A Solenoid, Low	ECU-T4, TRANS-G
H	Tan	121-T2	Solenoid Power, Solenoids B and E	ECU-T2, TRANS-H
J	Orange	128-T20	B Solenoid, Low	ECU-T20, TRANS-J
K	Tan	129-T6	E Solenoid, Low	ECU-T6, TRANS-K
L	Yellow	130-T17	Solenoid Power, Solenoids C and G	ECU-T17, TRANS-L
M	Blue	131-T21	D Solenoid, Low	ECU-T21, TRANS-M
N	Green	135-T25	Analog Return	ECU-T25, TRANS-N, TPS-A, RMR-A, RTEMP-B (4000), RMOD-F (3000)
P	Tan	147-T27	Sump Temperature Sensor Input	ECU-T27, TRANS-P
Q	Green	148-T32	Output Speed Sensor, Low	ECU-T32, NO-B, TCASE-D (3000 7-Speed), RMOD-D (3000 Retarder)
R	Yellow	139-T16	Output Speed Sensor, High	ECU-T16, NO-A, TCASE-C (3000 7-Speed), RMOD-C (3000 Retarder)
S	Orange	150-T30	Engine Speed Sensor, Low	ECU-T30, NE-B
T	Tan	141-T14	Engine Speed Sensor, High	ECU-T14, NE-A
U	Blue	140-T31	Turbine Speed Sensor, Low	ECU-T31, NT-B (4000), TRANS-U (3000)
V	Orange	149-T15	Turbine Speed Sensor, High	ECU-T15, NT-A (4000), TRANS-V (3000)
W	Yellow	195-T13	Transmission Identification	ECU-T13, TRANS-W
X	White	162-T12	C3 Pressure Switch Input	ECU-T12, TRANS-X
Y	Blue	165-T26	Oil Level Sensor Input	ECU-T26, TRANS-Y
Z				
a	Yellow	164-T11	Retarder Modulation Request	ECU-T11, RMR-B
b	Blue	156-T10	Throttle Position Sensor	ECU-T10, TPS-B

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

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BULKHEAD CONNECTOR FOR “T” HARNESS (Receptacle With Sockets, Plug With Pins) (*cont’d*)

Terminal No.*	Color	Wire No.	Description	Termination Points*
c	White	127-T23	H Solenoid, Low	ECU-T23, HSOL-A (4000), RMOD-A (3000 Retarder), TCASE-A (3000 7-Speed)
d	Orange	138-T28	Retarder Temperature Sensor Input	ECU-T28, RTEMP-A (4000), RMOD-E (3000)
e	Blue	111-T8	J Solenoid, Low	ECU-T8, TRANS-e
f	Blue	101-T24	N Solenoid, Low	ECU-T24, NSOL-A (4000 and 3000), TRANS-f (3000 7-Speed)
g	Yellow	116-T19	Solenoid Power, Solenoids H and N	ECU-T19, HSOL-B, NSOL-B, TRANS-g, TCASE-B (3000 7-Speed), RMOD-B (3000 Retarder)

BULKHEAD CONNECTOR FOR “V” HARNESS (Receptacle With Sockets, Plug With Pins)

Terminal No.*	Color	Wire No.	Description	Termination Points*
A	Green	155-V11	General Purpose Input 1	ECU-V11, VIWV-A
B	Yellow	153-V12	General Purpose Input 2	ECU-V12, VIWV-B
C	Blue	118-V13	General Purpose Input 3	ECU-V13, VIWV-C
D	Pink	124-V8	Sensor Power	ECU-V8, TPS-C
E	Green	105-V19	General Purpose Output 5	ECU-V19, VIWV-E
F	Gray	143-V32	Battery Return	ECU-V32, VIM-A2
G	Gray	143-V17	Battery Return	ECU-V17, VIM-A1
H	Tan	112-V22	General Purpose Output 3	ECU-V22, VIM-D2
J	White	114-V2	General Purpose Output 1	ECU-V2, VIM-F3
K	Tan	123-V6	Neutral Start	ECU-V6, VIM-D1
L	Yellow	161-V31	Digital Return (GPI)	ECU-V31, VIWV-L
M	Blue	179-V9	Engine Water Temperature	ECU-V9, VIWV-M
N	Green	135-V24	Analog Return	ECU-V24, TPS-A, VIWV-N
P	Green	117-V30	General Purpose Input 8	ECU-V30, VIWV-P
Q	White	113-V4	Reverse Warning	ECU-V4, VIM-F2
R	Orange	178-V28	General Purpose Input 11	ECU-V28, VIWV-R
S	Tan	177-V14	General Purpose Input 10	ECU-V14, VIWV-S
T				
U	Orange	137-V29	General Purpose Input 7	ECU-V29, VIWV-U
V	White	167-V5	General Purpose Output 8	ECU-V5, VIWV-V
W	Pink	136-V16	Battery Power	ECU-V16, VIM-E2
X	Tan	157-V20	Vehicle Speed	ECU-V20, VIM-B2
Y	White	125-V18	General Purpose Output 4	ECU-V18, VIM-C2
Z				
a				
b	Blue	156-V10	Throttle Position Sensor	ECU-V10, TPS-B
c				
d	White	154-V27	General Purpose Input 5	ECU-V27, VIWV-D
e	Yellow	146-V26	Ignition Sense	ECU-V26, VIM-F1
f	Orange	132-V3	General Purpose Output 2	ECU-V3, VIM-B1
g	Pink	136-V1	Battery Power	ECU-V1, VIM-E1

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

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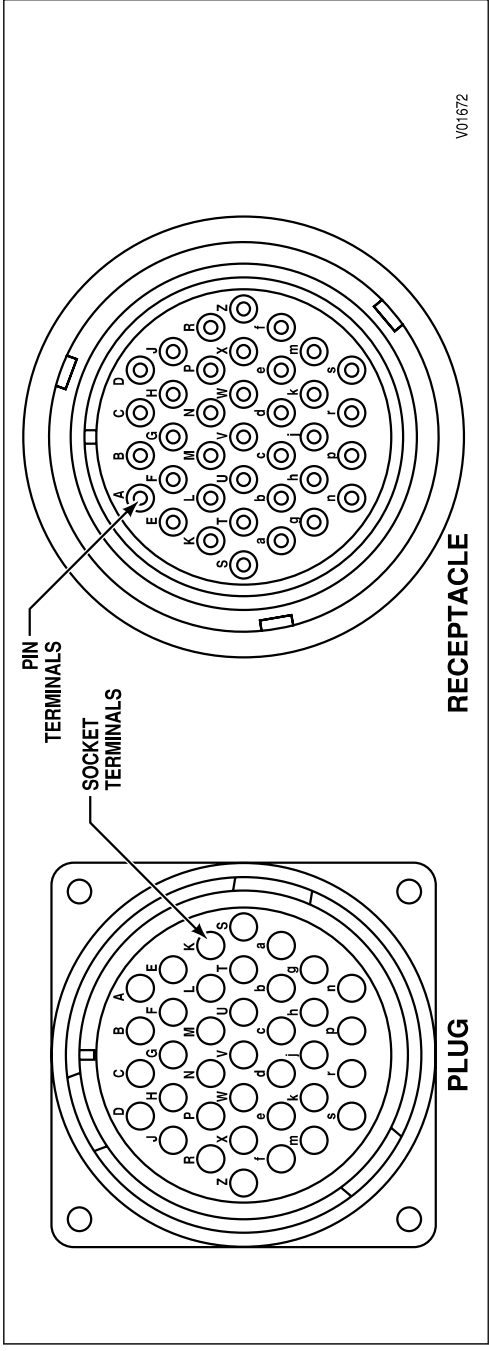


Figure D-5. Cannon 37-Way FMTV Bulkhead Connector

CANNON 37-WAY BULKHEAD CONNECTOR (FMTV ONLY)

Terminal No.	Color	Wire No.	Description	Termination Point(s)
A	Blue	101-T24	N Solenoid Low	Trans-f; ECU-T24
B	Orange	102-T1	A, D, J Solenoid Power	Trans-A; ECU-T1
C	Green	103-T5	C Solenoid Low	Trans-B; ECU-T5
D	White	104-T7	G Solenoid Low	Trans-C; ECU-T7
E	Pink	106	Sensor Power	Trans-D; TPS-C; RMR-C; 124-T9
F	Green	107-T3	F Solenoid Power	Splice
G				Trans-E; ECU-T3
H	White	110-T22	F Solenoid Low	Trans-F; ECU-T22
J	Green	111-T8	J Solenoid Low	Trans-e; ECU-T8
K	Yellow	116-T19	H, N Solenoid Power	Trans-g; ECU-T19;
L		201	Spare	
M	White	120-T4	A Solenoid Low	Trans-G; ECU-T4
N	Tan	121-T2	B, E Solenoid Power	Trans-H; ECU-T2
P	White	127-T23	H Solenoid Low	T-case-A; ECU-T23
R	Pink	124-T9	Sensor Power	TPS-C; ECU-T9
S	Yellow	127	H Solenoid Power	T-case-B; 116-T19 Splice
T	Orange	128-T20	B Solenoid Low	Trans-J; ECU-T20
U	Tan	129-T6	E Solenoid Low	Trans-K; ECU-T6
V	Yellow	130-T17	C, G Solenoid Power	Trans-L; ECU-T17
W	Blue	131-T21	D Solenoid Low	Trans-M; ECU-T21
X		202	Spare	
Z	Green	135-T25	Analog Return	TPS-A; ECU-T25
a	Green	135B-T25	Analog Return	Trans-N; 135-T25 Splice
b				
c				
d	Tan	147-T27	Sump Temp Input	Trans-P; ECU-T27
e		203	Spare	
f	Blue	156-T10	TPS	TPS-B; ECU-T10

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

APPENDIX D—WIRE/CONNECTOR CHART**CANNON 37-WAY BULKHEAD CONNECTOR (FMTV ONLY) (cont'd)**

Terminal No.	Color	Wire No.	Description	Termination Point(s)
g	Green	148-T32	Output Speed-Low	T-case-D; ECU-T32
h(in)	Yellow	195-T13	TransID	ECU-T13
h(out)	Yellow	161A	TransID	Trans-W
j	White	162-T12	C3PS Input	Trans-X; ECU-T12
k	Blue	165-T26	OLS Input	Trans-Y; ECU-T26
m	Tan	141-T14	Engine Speed-High	NE-A; ECU-T14
n	Yellow	139-T16	Output Speed-High	T-case-C; ECU-T16
p	Orange	149-T15	Turbine Speed-High	Trans-V; ECU-T15
r	Blue	140-T31	Turbine Speed-Low	Trans-U; ECU-T31
s	Orange	150-T30	Engine Speed-Low	NE-B; ECU-T30

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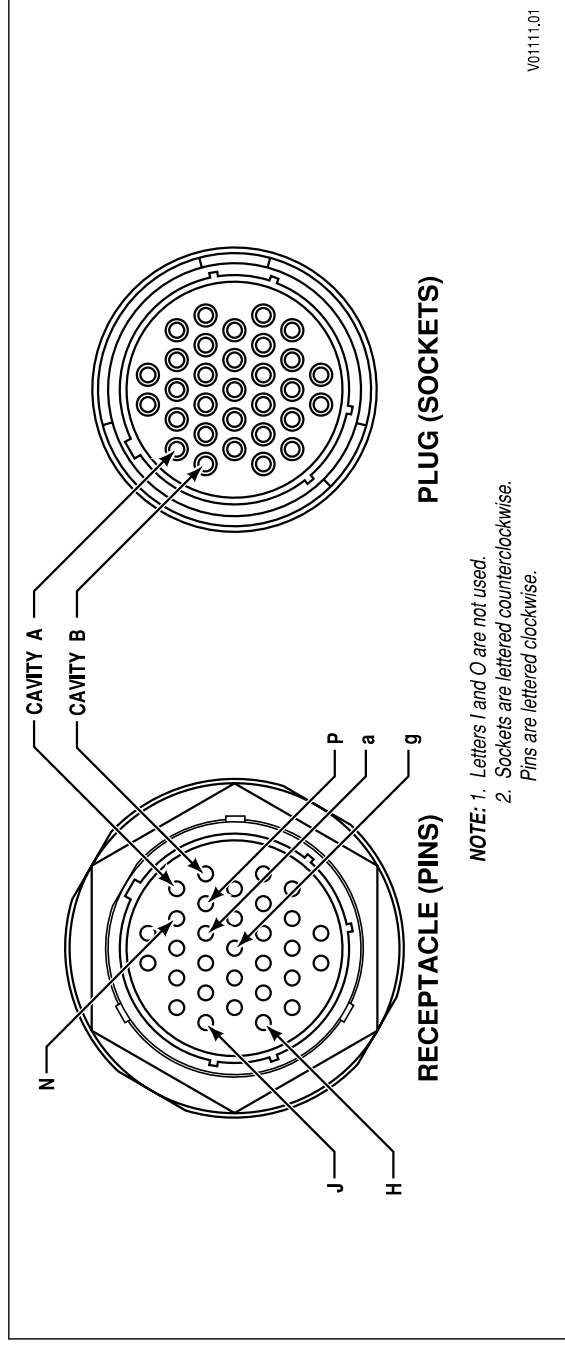


Figure D-6. Deutsch Transmission Connector, ECD

DEUTSCH TRANSMISSION CONNECTOR (Plugs With Sockets, Receptacles With Pins)

Terminal No.*	Color	Wire No.	Description	Termination Points*
A	Orange	102-T1	Solenoid Power, Solenoids A, D, and J	ECU-T1, ASOL-B, DSOL-B, JSOL-B
B	Green	103-T5	C Solenoid, Low	ECU-T5, CSOL-A
C	White	104-T7	G Solenoid, Low	ECU-T7, GSOL-A
D	Pink	124-T9	Sensor Power	ECU-T9, TPS-C, RMR-C, OLS-D
E	Green	107-T3	Solenoid Power, F Solenoid	ECU-T3, FSOL-A
F	White	110-T22	F Solenoid, Low	ECU-T22, FSOL-B
G	White	120-T4	A Solenoid, Low	ECU-T4, ASOL-A
H	Tan	121-T2	Solenoid Power, Solenoids B and E	ECU-T2, BSOL-B, ESOL-B
J	Orange	128-T20	B Solenoid, Low	ECU-T20, BSOL-A
K	Tan	129-T6	E Solenoid, Low	ECU-T6, ESOL-A
L	Yellow	130-T17	Solenoid Power, Solenoids C and G	ECU-T17, GSOL-B, CSOL-B
M	Blue	131-T21	D Solenoid, Low	ECU-T21, DSOL-A
N	Green	135-T25	Analog Return	ECU-T25, TPS-A, RMR-A, RTEMP-B (4000), RMOD-F (3000), C3PS-B, OILT-LO, OLS-B
P	Tan	147-T27	Sump Temperature Sensor Input	ECU-T27, OILT-HI
Q				
R				
S				
T				
U	Blue	140-T31	Turbine Speed Sensor, Low (3000, 3000 7-speed only)	ECU-T31, NT-B
V	Orange	149-T15	Turbine Speed Sensor, High (3000, 3000 7-speed only)	ECU-T15, NT-A
W	Yellow	195-T13	Transmission Identification (TransID)	ECU-T13, ARTN
X	White	162-T12	C3 Pressure Switch Input	ECU-T12, C3PS-A
Y	Blue	165-T26	Oil Level Sensor Input	ECU-T26, OLS-A
Z				

(continued on next page)

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

APPENDIX D—WIRE/CONNECTOR CHART

DEUTSCH TRANSMISSION CONNECTOR (Plugs With Sockets, Receptacles With Pins) (cont'd)

Terminal No.*	Color	Wire No.	Description	Termination Points*
a				
b				
c				
d				
e	Blue	111-T8	J Solenoid, Low (3000 or 4000 7-Speed only)	ECU-T8, JSOL-A
f	Blue	101-T24	N Solenoid, Low (3000 or 4000 7-Speed only)	ECU-T24, NSOL-A
g	Yellow	116-T19	Solenoid Power, Solenoids H and N (3000 7-Speed only)	ECU-T19, HSOL-B, NSOL-B

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