



# Technical Service Information

## CHRYSLER/DODGE/JEEP NEW GENERATION COMPUTER (NGC) TERMINAL ID

**CHANGE:** The Powertrain Control Module (PCM) has changed to what is now called the New Generation Computer (NGC).

**REASON:** A cost effective savings due to the elimination of wiring and connectors as well as a lesser amount of computer hardware.

**PARTS AFFECTED:**

The Powertrain Control Module (PCM) and the Transmission Control Module (TCM) have been incorporated into one computer eliminating a stand alone TCM..

The NGC has four connectors with 38 pins each and serves to control both engine management as well as all electronic transmission operations.

**INTERCHANGEABILITY:**

There is no interchangeability between the NGC and any previous design level computers.

**NOTE (1):** Your vehicle may not have all the terminal functions shown in the charts, all possibilities are indicated in the event your vehicle has that circuit.

**NOTE (2):** The terminal identifications in this bulletin do not reflect any engine management functions unless they directly relate to or affect transmission operation. The following information should be used for identifying terminal locations when diagnosing electrical faults.

**SERVICE INFORMATION:**

*Refer to Figure 1 for NGC Connector Identification.*

*Refer to Figures 2 and 3 For 45/545RFE Terminal Identification.*

*Refer to Figures 4 and 5 For 68RFE Terminal Identification.*

*Refer to Figures 6 and 7 For 41TE/42LE Terminal Identification.*

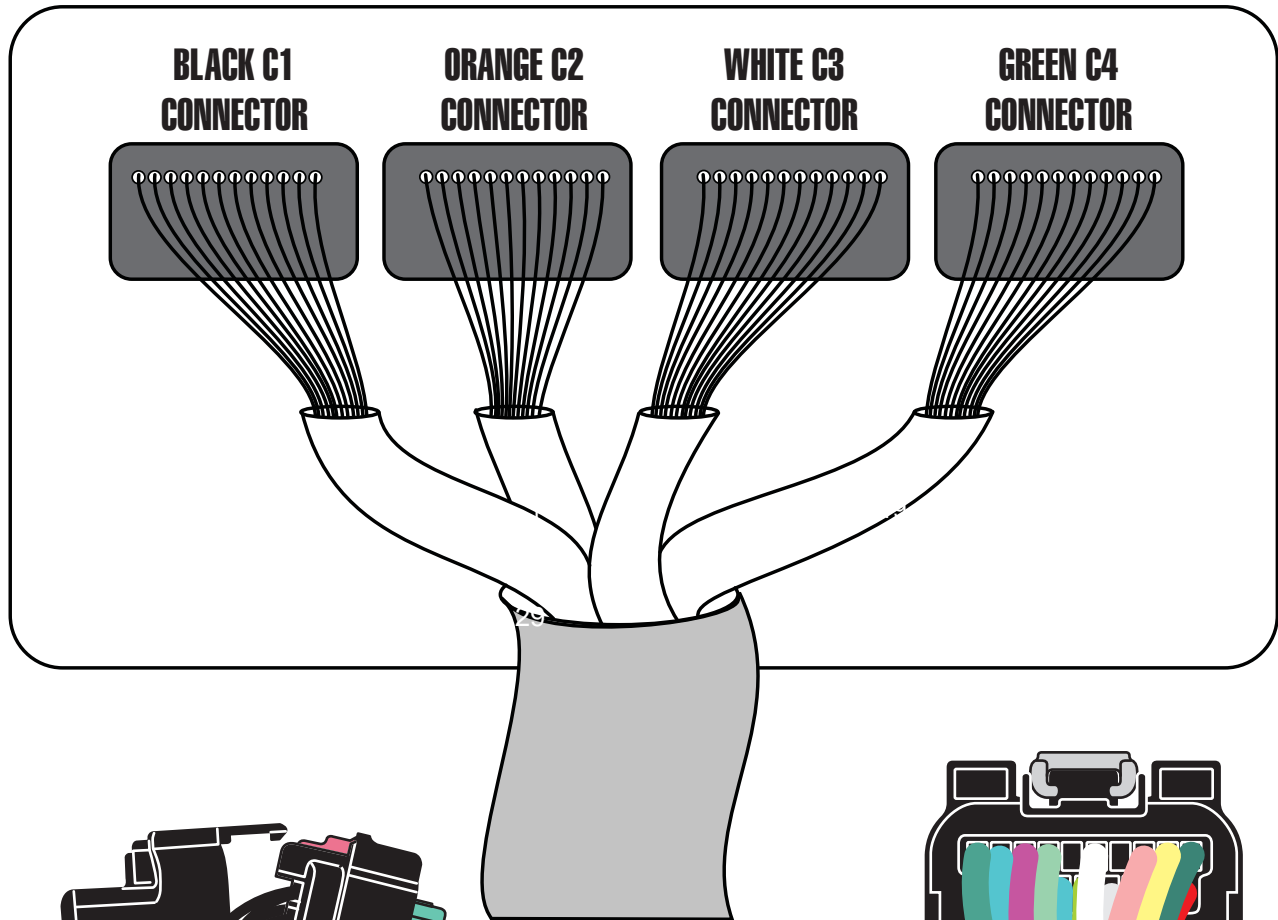
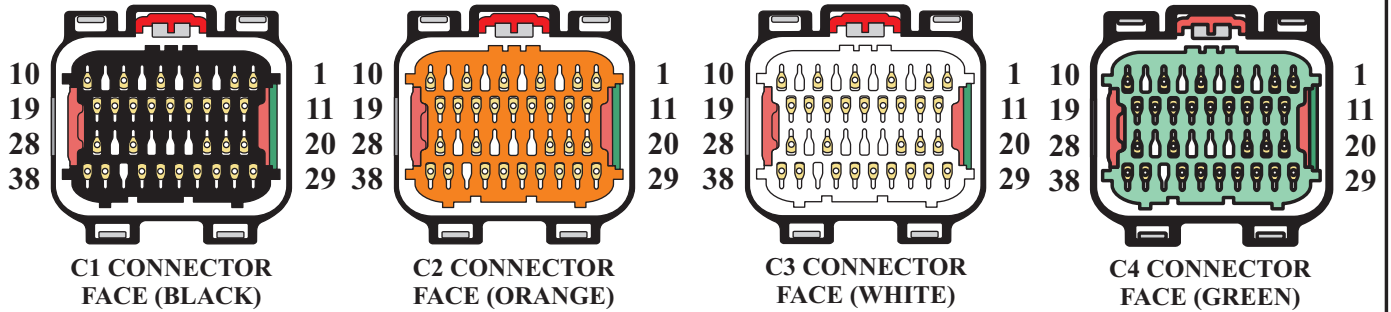
*Refer to Figures 8 and 9 For 41TES/42RLE/42RLE VLP Terminal Identification.*

*Refer to Figures 10 and 11 For 62TE Terminal Identification.*

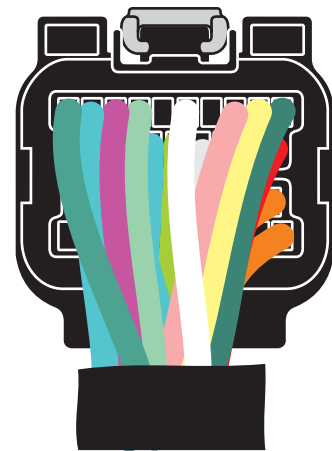
# Technical Service Information

## NEW GENERATION COMPUTER TERMINAL ID

### NGC CONNECTOR IDENTIFICATION



CONNECTOR REMOVED FROM COVER



WIRE SIDE IS EXPOSED FOR BACK PROBING

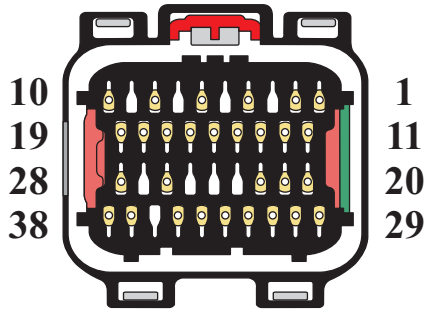
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Figure 1

# Technical Service Information

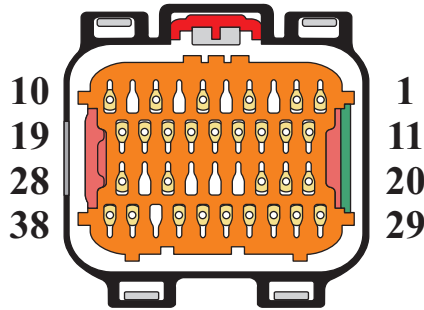
## NEW GENERATION COMPUTER TERMINAL ID

### 45RFE/545RFE



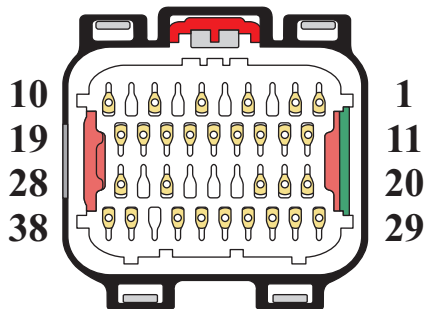
**C1 CONNECTOR  
FACE (BLACK)**

PIN CAVITY	TERMINAL FUNCTION
9	GROUND
11	FUSED IGNITION SWITCH OUTPUT (RUN-START)
12	FUSED ASD RELAY OUTPUT
18	GROUND
27	5 VOLT SUPPLY
29	FUSED B+ (HOT @ ALL TIMES)
30	FUSED IGNITION SWITCH OUTPUT (RUN)



**C2 CONNECTOR  
FACE (ORANGE)**

PIN CAVITY	TERMINAL FUNCTION
15	TPS GROUND
20	ECT SIGNAL
21	TPS SIGNAL 1
27	SENSOR GROUND
28	TPS SIGNAL 2
29	SENSOR 5 VOLT SUPPLY



**C3 CONNECTOR  
FACE (WHITE)**

PIN CAVITY	TERMINAL FUNCTION
3, 18, 19	ASD RELAY OUTPUT
14	BRAKE SIGNAL 2
16	APP SENSOR GROUND 1
17	APP SENSOR GROUND 2
21	TRANSMISSION RANGE SENSOR (T41) SIGNAL
23	BRAKE SIGNAL 1
25	APP SENSOR SIGNAL 1
26	AUTOSTICK - UPSHIFT
27	AUTOSTICK - DOWNSHIFT
28	ASD RELAY OUTPUT
36	APP SENSOR SIGNAL 2
38	STARTER RELAY CONTROL

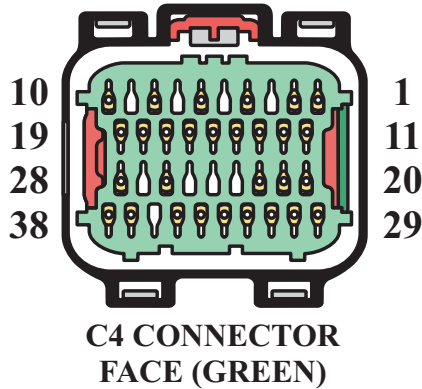
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Figure 2

# Technical Service Information

## NEW GENERATION COMPUTER TERMINAL ID

### 45RFE/545RFE

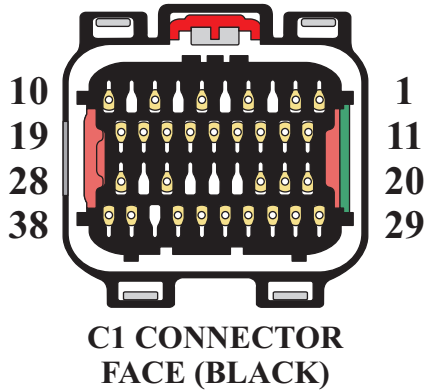


PIN CAVITY	TERMINAL FUNCTION
1	<i>OVERDRIVE CLUTCH SOLENOID CONTROL</i>
2	<i>4TH CLUTCH SOLENOID CONTROL</i>
4	<i>MULTI-SELECT SOLENOID CONTROL</i>
6	<i>2ND CLUTCH SOLENOID CONTROL</i>
8	<i>UNDERDRIVE CLUTCH SOLENOID CONTROL</i>
10	<i>LR/TC CLUTCH SOLENOID CONTROL</i>
11	<i>LINE PRESSURE CONTROL SOLENOID CONTROL</i>
12	<i>GROUND</i>
13	<i>GROUND</i>
14	<i>GROUND</i>
15	<i>TRANSMISSION RANGE SENSOR (T1) SENSE</i>
16	<i>TRANSMISSION RANGE SENSOR (T3) SENSE</i>
17	<i>OVERDRIVE OFF SWITCH SENSE</i>
18	<i>TRANSMISSION CONTROL RELAY CONTROL</i>
19	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>
20	<i>4TH CLUTCH PRESSURE SWITCH SIGNAL</i>
21	<i>UNDERDRIVE CLUTCH PRESSURE SWITCH SIGNAL</i>
22	<i>OVERDRIVE CLUTCH PRESSURE SWITCH SIGNAL</i>
26	<i>TRANSMISSION RANGE SENSOR (T2) SIGNAL</i>
28	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>
29	<i>LOW/REVERSE CLUTCH PRESSURE SWITCH SIGNAL</i>
30	<i>2ND CLUTCH PRESSURE SWITCH SIGNAL</i>
31	<i>LINE PRESSURE SENSOR SIGNAL</i>
32	<i>OUTPUT SPEED SENSOR SIGNAL</i>
33	<i>INPUT SPEED SENSOR SIGNAL</i>
34	<i>SPEED SENSOR GROUND</i>
35	<i>TRANSMISSION OIL TEMPERATURE SENSOR SIGNAL</i>
37	<i>TRANSMISSION RANGE SENSOR (T42) SIGNAL</i>
38	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>

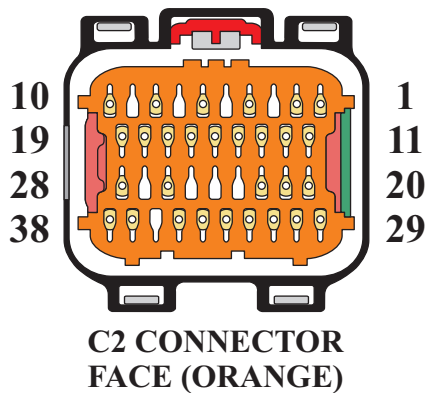
# Technical Service Information

## NEW GENERATION COMPUTER TERMINAL ID

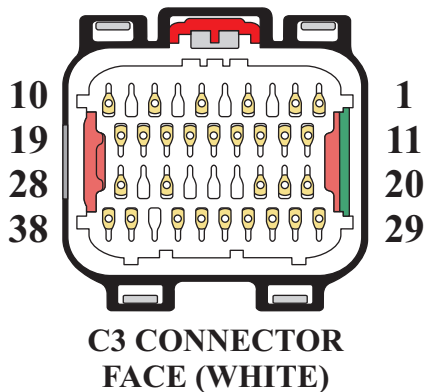
### 68RFE



PIN CAVITY	TERMINAL FUNCTION
9	GROUND
10	FUSED B+ (HOT @ ALL TIMES)
11	FUSED IGNITION SWITCH OUTPUT (RUN-START)
12	FUSED ASD RELAY OUTPUT
18	GROUND
19	GROUND
27	5 VOLT SUPPLY
29	FUSED B+ (HOT @ ALL TIMES)
30	FUSED IGNITION SWITCH OUTPUT (RUN)
34	CAN C BUS +
35	CAN C BUS -



PIN CAVITY	TERMINAL FUNCTION
15	TPS GROUND
20	ECT SIGNAL
21	TPS SIGNAL 1
27	SENSOR GROUND
28	TPS SIGNAL 2
29	SENSOR 5 VOLT SUPPLY



PIN CAVITY	TERMINAL FUNCTION
3 & 19	ASD RELAY OUTPUT
14	BRAKE SIGNAL 2
16	APP SENSOR GROUND 1
17	APP SENSOR GROUND 2
21	TRANSMISSION RANGE SENSOR (T4I) SIGNAL
22	PTO SIGNAL
23	BRAKE SIGNAL 1
25	APP SENSOR SIGNAL 1
28	ASD RELAY OUTPUT
36	APP SENSOR SIGNAL 2
38	STARTER RELAY CONTROL

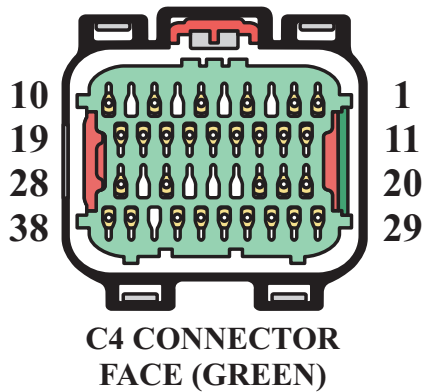
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Figure 4

# Technical Service Information

## NEW GENERATION COMPUTER TERMINAL ID

### 68RFE

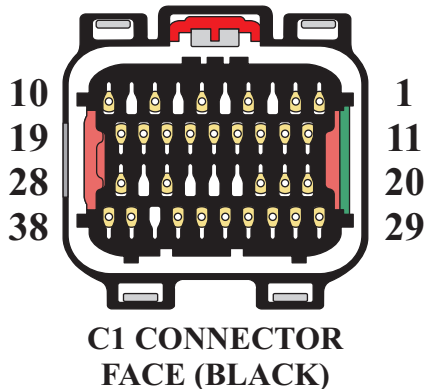


PIN CAVITY	TERMINAL FUNCTION
1	<i>OVERDRIVE CLUTCH SOLENOID CONTROL</i>
2	<i>4TH CLUTCH SOLENOID CONTROL</i>
4	<i>MULTI-SELECT SOLENOID CONTROL</i>
6	<i>2ND CLUTCH SOLENOID CONTROL</i>
8	<i>UNDERDRIVE CLUTCH SOLENOID CONTROL</i>
10	<i>LR/TC CLUTCH SOLENOID CONTROL</i>
11	<i>LINE PRESSURE CONTROL SOLENOID CONTROL</i>
12	<i>GROUND</i>
13	<i>GROUND</i>
14	<i>GROUND</i>
15	<i>TRANSMISSION RANGE SENSOR (T1) SENSE</i>
16	<i>TRANSMISSION RANGE SENSOR (T3) SENSE</i>
17	<i>TOW HAUL SWITCH SENSE</i>
18	<i>TRANSMISSION CONTROL RELAY CONTROL</i>
19	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>
20	<i>4TH CLUTCH PRESSURE SWITCH SIGNAL</i>
21	<i>UNDERDRIVE CLUTCH PRESSURE SWITCH SIGNAL</i>
22	<i>OVERDRIVE CLUTCH PRESSURE SWITCH SIGNAL</i>
26	<i>TRANSMISSION RANGE SENSOR (T2) SIGNAL</i>
28	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>
29	<i>LOW/REVERSE CLUTCH PRESSURE SWITCH SIGNAL</i>
30	<i>2ND CLUTCH PRESSURE SWITCH SIGNAL</i>
31	<i>LINE PRESSURE SENSOR SIGNAL</i>
32	<i>OUTPUT SPEED SENSOR SIGNAL</i>
33	<i>INPUT SPEED SENSOR SIGNAL</i>
34	<i>SPEED SENSOR GROUND</i>
35	<i>TRANSMISSION OIL TEMPERATURE SENSOR SIGNAL</i>
37	<i>TRANSMISSION RANGE SENSOR (T42) SIGNAL</i>
38	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>

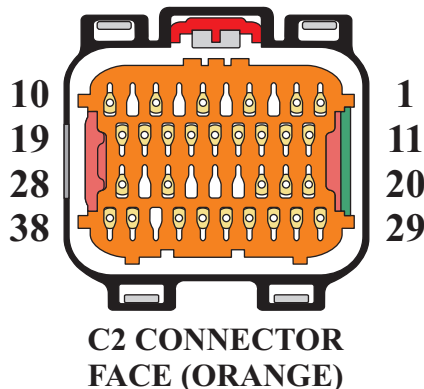
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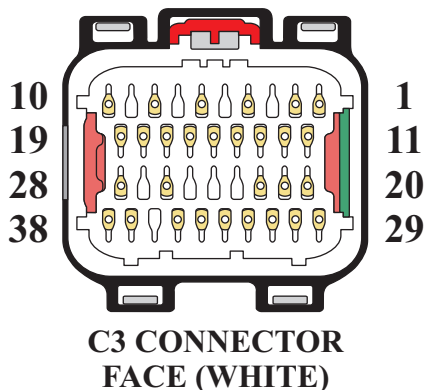
### 41TE/42LE



PIN CAVITY	TERMINAL FUNCTION
9	<i>GROUND</i>
11	<i>FUSED IGNITION SWITCH OUTPUT (RUN-START)</i>
12	<i>FRONT CONTROL MODULE (UNLOCK-RUN-START)</i>
18	<i>GROUND</i>
25	<i>SCI RECEIVE</i>
26	<i>FLASH ENABLE</i>
27	<i>5 VOLT SUPPLY</i>
29	<i>FUSED B+ (HOT AT ALL TIMES)</i>
30	<i>FUSED IGNITION SWITCH (START)</i>
36	<i>SCI TRANSMIT (PCM ENGINE)</i>
37	<i>SCI TRANSMIT (PCM TRANSMISSION)</i>
38	<i>PCI BUS</i>



PIN CAVITY	TERMINAL FUNCTION
20	<i>ECT SIGNAL</i>
21	<i>TPS SIGNAL</i>
27	<i>SENSOR GROUND</i>
29	<i>SENSOR 5 VOLT SUPPLY</i>



PIN CAVITY	TERMINAL FUNCTION
3, 18, 19	<i>ASD RELAY OUTPUT</i>
23	<i>BRAKE SWITCH</i>
26	<i>AUTOSTICK - UPSHIFT</i>
27	<i>AUTOSTICK - DOWNSHIFT</i>
28	<i>ASD RELAY OUTPUT</i>

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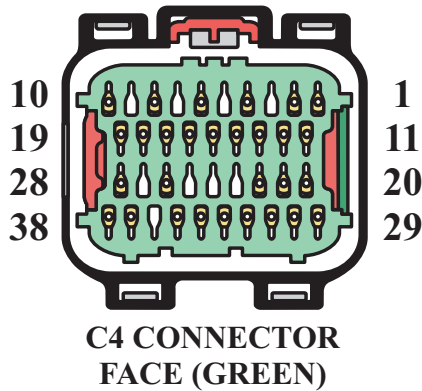
Figure 6



# Technical Service Information

## NEW GENERATION COMPUTER TERMINAL ID

### 41TE/42LE



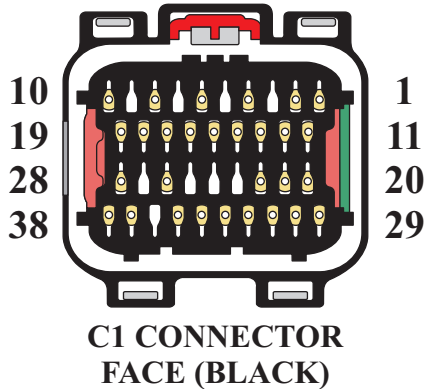
PIN CAVITY	TERMINAL FUNCTION
1	<i>OVERDRIVE CLUTCH SOLENOID CONTROL</i>
2	<i>UNDERDRIVE CLUTCH SOLENOID CONTROL</i>
6	<i>2-4 CLUTCH SOLENOID CONTROL</i>
10	<i>LR/TC CLUTCH SOLENOID CONTROL</i>
12	<i>GROUND</i>
13	<i>GROUND</i>
14	<i>GROUND</i>
15	<i>TRANSMISSION RANGE SENSOR (T1) SENSE</i>
16	<i>TRANSMISSION RANGE SENSOR (T3) SENSE</i>
18	<i>TRANSMISSION CONTROL RELAY CONTROL</i>
19	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>
22	<i>OVERDRIVE CLUTCH PRESSURE SWITCH SIGNAL</i>
27	<i>TRANSMISSION RANGE SENSOR (T41) SIGNAL</i>
28	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>
29	<i>LOW/REVERSE CLUTCH PRESSURE SWITCH SIGNAL</i>
30	<i>2-4 CLUTCH PRESSURE SWITCH SIGNAL</i>
32	<i>OUTPUT SPEED SENSOR SIGNAL</i>
33	<i>INPUT SPEED SENSOR SIGNAL</i>
34	<i>INPUT/OUTPUT SPEED SENSOR GROUND</i>
35	<i>TRANSMISSION TEMPERATURE SIGNAL</i>
37	<i>TRANSMISSION RANGE SENSOR (T42) SIGNAL</i>
38	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>



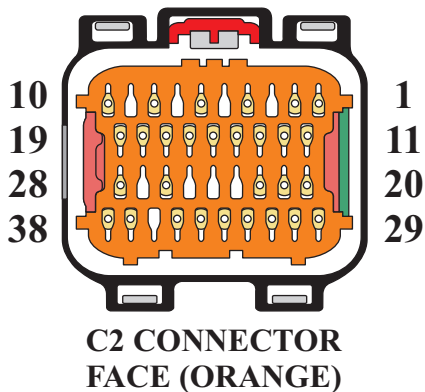
# Technical Service Information

## NEW GENERATION COMPUTER TERMINAL ID

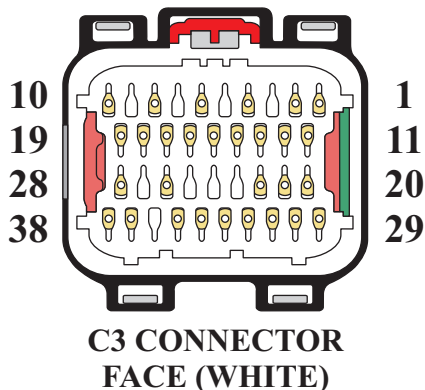
### 41TES/42RLE/42RLE VLP



PIN CAVITY	TERMINAL FUNCTION
9	GROUND
11	FUSED IGNITION SWITCH OUTPUT (RUN-START)
12	FUSED IGNITION SWITCH OUTPUT (OFF-RUN-START)
18	GROUND
25	SCI RECEIVE - PCM (ENGINE)
26	SCI RECEIVE - PCM (TRANSMISSION)
27	5 VOLT SUPPLY
29	FUSED B+ (HOT AT ALL TIMES)
30	FUSED IGNITION SWITCH (START)
36	SCI TRANSMIT (PCM ENGINE)
37	SCI TRANSMIT (PCM TRANSMISSION)
38	PCI BUS



PIN CAVITY	TERMINAL FUNCTION
15	TPS GROUND
20	ECT SIGNAL
21	TPS SIGNAL 1
27	SENSOR GROUND
28	TPS SIGNAL 2
29	SENSOR 5 VOLT SUPPLY



PIN CAVITY	TERMINAL FUNCTION
3, 18, 19	ASD RELAY OUTPUT
14	BRAKE SIGNAL 2
16	APP SENSOR GROUND 1
17	APP SENSOR GROUND 2
21	TRANSMISSION RANGE SENSOR (T41) SIGNAL
23	BRAKE SIGNAL 1
25	APP SENSOR SIGNAL 1
26	AUTOSTICK - UPSHIFT
27	AUTOSTICK - DOWNSHIFT
28	ASD RELAY OUTPUT
36	APP SENSOR SIGNAL 2
38	STARTER RELAY CONTROL

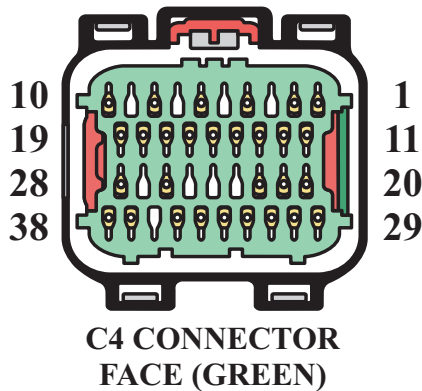
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Figure 8

# Technical Service Information

## NEW GENERATION COMPUTER TERMINAL ID

### 41TES/42RLE/42RLE VLP

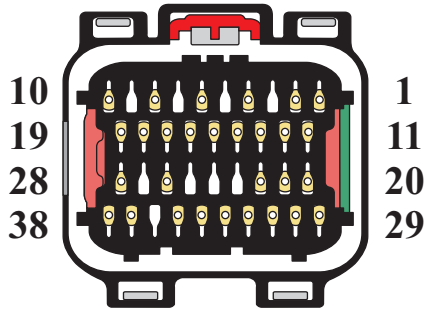


PIN CAVITY	TERMINAL FUNCTION
1	<i>OVERDRIVE CLUTCH SOLENOID CONTROL</i>
2	<i>UNDERDRIVE CLUTCH SOLENOID CONTROL</i>
6	<i>2-4 CLUTCH SOLENOID CONTROL</i>
10	<i>LR/TC CLUTCH SOLENOID CONTROL</i>
11	<i>PRESSURE CONTROL SOLENOID CONTROL</i>
12	<i>GROUND</i>
13	<i>GROUND</i>
14	<i>GROUND</i>
15	<i>TRANSMISSION RANGE SENSOR (T1) SENSE</i>
16	<i>TRANSMISSION RANGE SENSOR (T3) SENSE</i>
17	<i>OVERDRIVE OFF SWITCH</i>
18	<i>TRANSMISSION CONTROL RELAY CONTROL</i>
19	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>
22	<i>OVERDRIVE CLUTCH PRESSURE SWITCH SIGNAL</i>
27	<i>TRANSMISSION RANGE SENSOR (T41) SIGNAL</i>
28	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>
29	<i>LOW/REVERSE CLUTCH PRESSURE SWITCH SIGNAL</i>
30	<i>2-4 CLUTCH PRESSURE SWITCH SIGNAL</i>
31	<i>OUTPUT SPEED SENSOR SIGNAL</i>
32	<i>LINE PRESSURE SENSOR SIGNAL</i>
33	<i>INPUT SPEED SENSOR SIGNAL</i>
34	<i>INPUT/OUTPUT SPEED SENSOR GROUND</i>
35	<i>TRANSMISSION TEMPERATURE SIGNAL</i>
37	<i>TRANSMISSION RANGE SENSOR (T42) SIGNAL</i>
38	<i>TRANSMISSION CONTROL RELAY OUTPUT</i>

# Technical Service Information

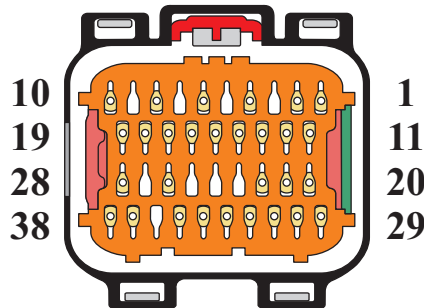
## NEW GENERATION COMPUTER TERMINAL ID

### 62TE



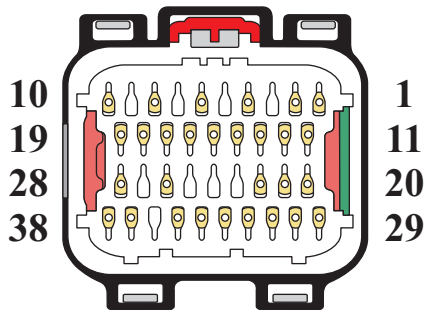
**C1 CONNECTOR  
FACE (BLACK)**

PIN CAVITY	TERMINAL FUNCTION
9	GROUND
10	FUSED B+ (HOT AT ALL TIMES)
11	FUSED IGNITION SWITCH OUTPUT (RUN-START)
12	FUSED IGNITION SWITCH OUTPUT (OFF-RUN-START)
18	GROUND
19	GROUND
22	EMCC VFS CONTROL (TCC)
27	5 VOLT SUPPLY
29	FUSED B+ (HOT AT ALL TIMES)
30	FUSED IGNITION SWITCH (START)
34	CAN BUS +
35	CAN BUS -
38	FUSED ASD RELAY OUT



**C2 CONNECTOR  
FACE (ORANGE)**

PIN CAVITY	TERMINAL FUNCTION
15	TPS GROUND
20	ECT SIGNAL
21	TPS SIGNAL 1
27	LINE PRESSURE & ATF TEMP SENSOR GROUND
28	TPS SIGNAL 2
29	SENSOR 5 VOLT SUPPLY



**C3 CONNECTOR  
FACE (WHITE)**

PIN CAVITY	TERMINAL FUNCTION
3 & 19	ASD RELAY OUTPUT
14	BRAKE SIGNAL 2
16	APP SENSOR GROUND 1
17	APP SENSOR GROUND 2
21	TRANSMISSION RANGE SENSOR (T41) SIGNAL
23	BRAKE SIGNAL 1
25	APP SENSOR SIGNAL 1
26	AUTOSTICK - UPSHIFT
27	AUTOSTICK - DOWNSHIFT
28	ASD RELAY OUTPUT
36	APP SENSOR SIGNAL 2
38	STARTER RELAY CONTROL

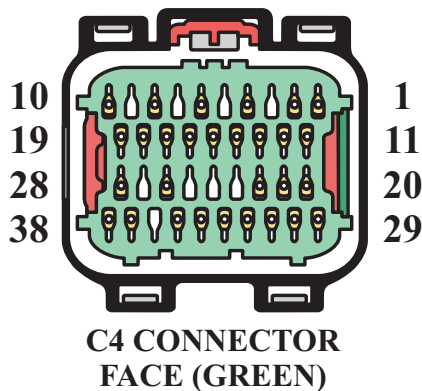
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Figure 10

# Technical Service Information

## NEW GENERATION COMPUTER TERMINAL ID

### 62TE



PIN CAVITY	TERMINAL FUNCTION
1	OVERDRIVE CLUTCH SOLENOID CONTROL
2	UNDERDRIVE CLUTCH SOLENOID CONTROL
3	EMCC VF SOLENOID CONTROL (TCC)
4	DIRECT CLUTCH SOLENOID CONTROL
5	DIRECT CLUTCH PRESSURE SWITCH SIGNAL
6	2-4/LOW REVERSE SOLENOID CONTROL
8	LOW CLUTCH SOLENOID CONTROL
10	LOW REVERSE SOLENOID CONTROL
11	LINE PRESSURE VF SOLENOID CONTROL
12	GROUND
13	GROUND
14	GROUND
15	TRANSMISSION RANGE SENSOR (T1) SENSE
16	TRANSMISSION RANGE SENSOR (T3) SENSE
18	TRANSMISSION CONTROL RELAY CONTROL
19	TRANSMISSION CONTROL RELAY OUTPUT
21	LOW CLUTCH PRESSURE SWITCH SIGNAL
22	OVERDRIVE CLUTCH PRESSURE SWITCH SIGNAL
24	TRANSFER GEAR SPEED SENSOR SIGNAL
27	TRANSMISSION RANGE SENSOR (T41) SIGNAL
28	TRANSMISSION CONTROL RELAY OUTPUT
29	LOW REVERSE CLUTCH PRESSURE SWITCH SIGNAL
30	2-4 CLUTCH PRESSURE SWITCH SIGNAL
31	LINE PRESSURE SENSOR SIGNAL
32	OUTPUT SPEED SENSOR SIGNAL
33	INPUT SPEED SENSOR SIGNAL
34	SPEED SENSOR GROUND
35	TRANSMISSION TEMPERATURE SIGNAL
37	TRANSMISSION RANGE SENSOR (T42) SIGNAL
38	TRANSMISSION CONTROL RELAY OUTPUT