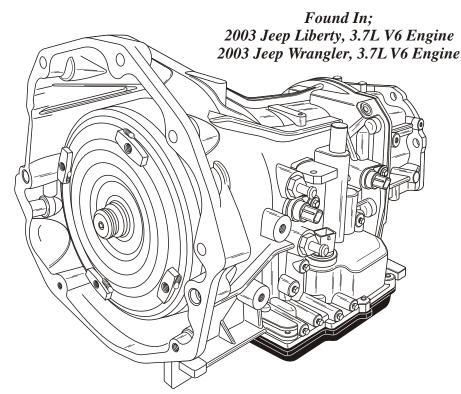


# CHRYSLER 42RLE PRELIMINARY INFORMATION

Beginning at the start of production for the 2003 model year, Chrysler Corporation modified the 42LE (606) transmission and turned it into a Rear Wheel Drive called the **42RLE**.

The majority of the transmission's internal parts as well as operating strategy is virtually identical as the 42LE with the exception of the rear drive section and the hypoid style final drive being eliminated. This transmission is available in both 2WD and 4x4 configurations. The gear ratios and clutch application are also the same as the 42LE.

Figure	1Internal Component Identification
	2
Figure	3Case Connectors, Cooler Fittings and Speed Senor Identifications
Figure	4
Figure	5Adaptor Housing and "Lube" Tube
Figure	6Lube Tube Hydraulic Circuit
Figures	7-9
Figure	10Transmission Control Module Location
Figure	11TCM 60 way Connector Terminal Identification
Figure	12Transmission Solenoid Connector Terminal Identification
Figure	13Transmission Range Sensor Connector Identification
Figure	14



Special Thanks to Frank at Phoenix Remanufactured Transmissions, for the use of the 42RLE used for these illustrations. Copyright © 2004 ATSG



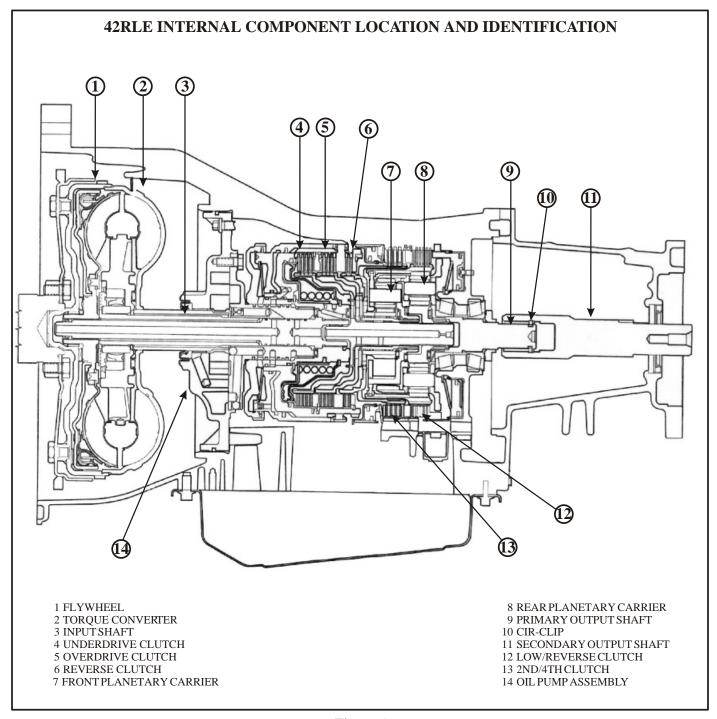


Figure 1

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Shift Lever Position	DRI	VING CLUTCH	HOLDING CLUTCHES		
	Underdrive	Overdrive	Reverse	2/4	Low/Reverse
Park					ON
Reverse			ON		ON
Neutral					ON
''OD''-1st	ON				ON
''OD''-2nd	ON			ON	
''OD''-3rd	ON	ON			
''OD''-4th		ON		ON	
''D*''-1st	ON				ON
''D*''-2nd	ON			ON	
''D*''-3rd	ON	ON			
''L*''-1st	ON				ON
''L*''-2nd	ON			ON	
''L*''-3rd	ON	ON			

Figure 2



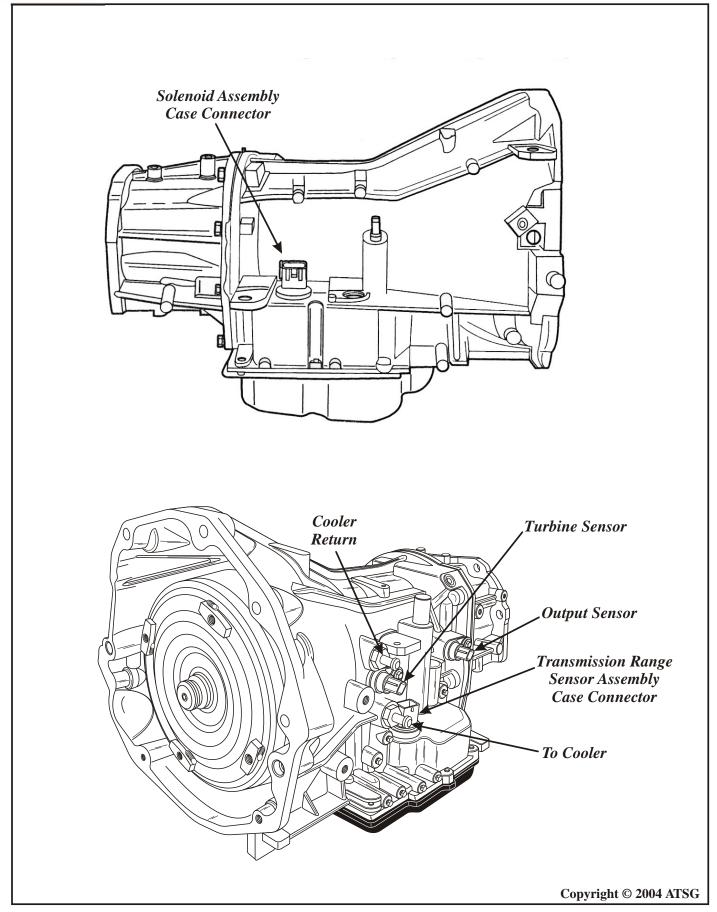
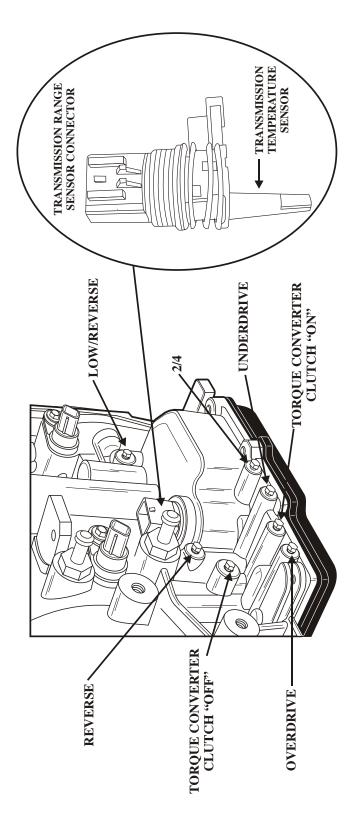


Figure 3
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#### CLUTCH PRESSURE AND PRESSURE PORT IDENTIFICATION



	2/4 LOW/REVERSE UTCH CLUTCH	0 - 2 II5 - 145	0 - 2 165 - 235	0 - 2 115 - 145	0 - 2 II5 - 145	115 - 145 0 - 2	0-2 0-2	75-95 0-2	75-95 0-2
ΥL	TORQUE 2/4 CONVERTER CLUTCH	45 - 100	35 - 85	45 - 100	45 - 100	45 - 100	45 - 80	45 - 80 7	7 80-09
<b>42RLE CLUTCH PRESSURE CHART</b>	TORQUE CONVERTER CLUTCH "OFF"	011 - 09	011 - 05	0II - 09	011 - 09	011 - 09	06 - 09	06 - 09	5-0
JTCH PR	REVERSE CLUTCH	0 - 2	165 - 235	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
42RLE CLI	ADRIVE OVERDRIVE REVERSE TICH CLUTCH	0 - 5	2-0	5-0	5-0	9 - 0	26 - 52	56 - 52	56 - 52
	UNDERDRIVE CLUTCH	0 - 2	0 - 2	0 - 2	110 - 145	110 - 145	75 - 95	0 - 2	0 - 2
	ACTUAL GEAR	PARK	REVERSE	NEUTRAL	FIRST	SECOND	THIRD	FOURTH	FOURTH WITH TCC
	GEAR ACTUAL UNDER GEAR CLU	PARK 0 MPH	REVERSE 0 MPH	NEUTRAL 0 MPH	LOW 20 MPH	30 MPH	3 45 MPH	OD 30 MPH	OD 50 MPH

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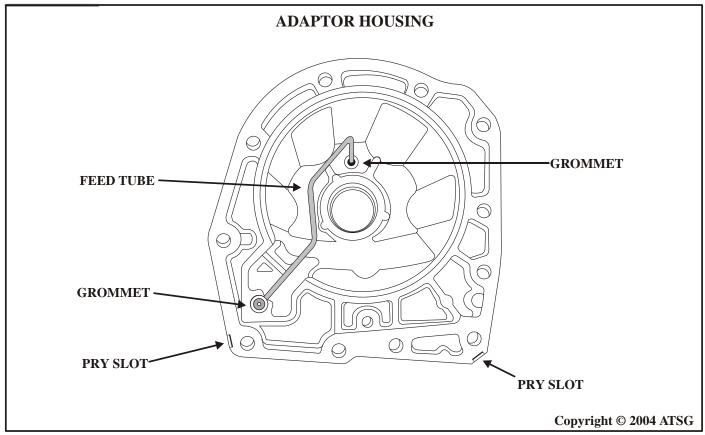


Figure 5

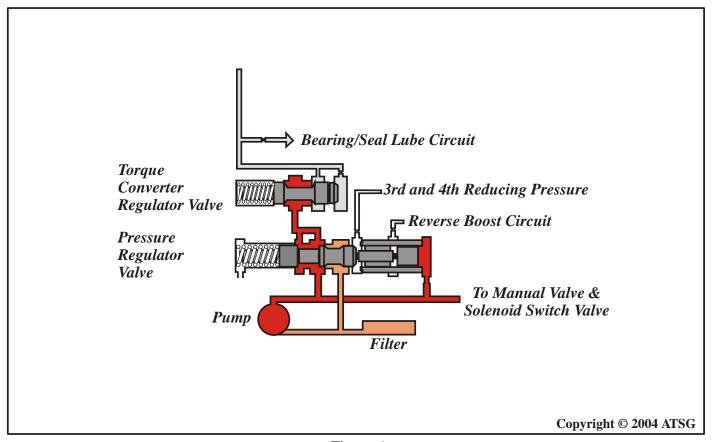


Figure 6
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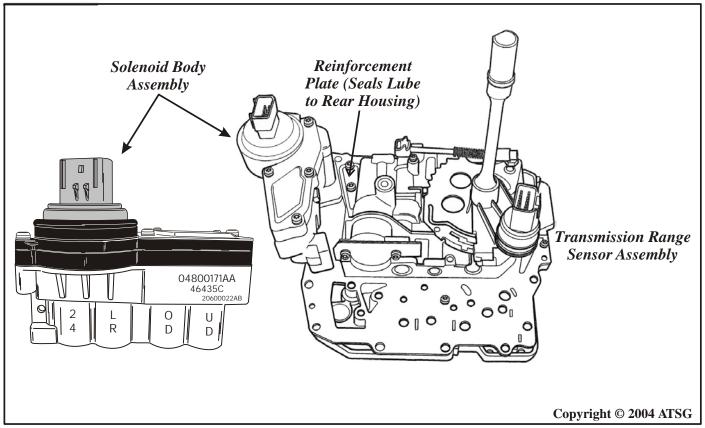
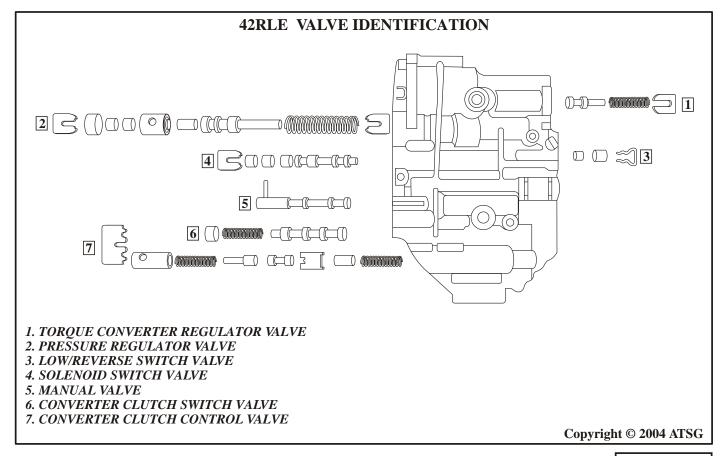


Figure 7





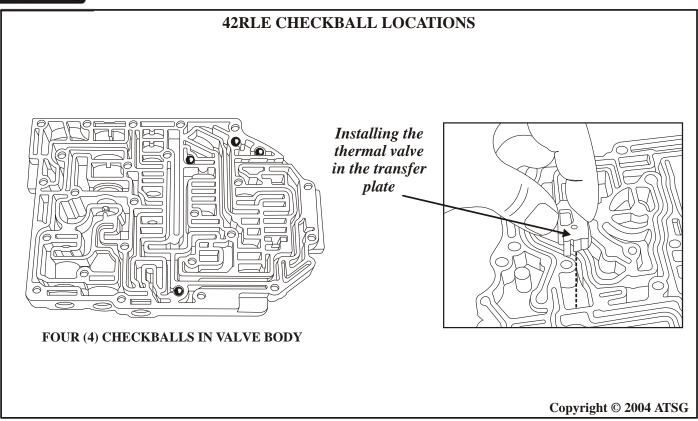


Figure 9

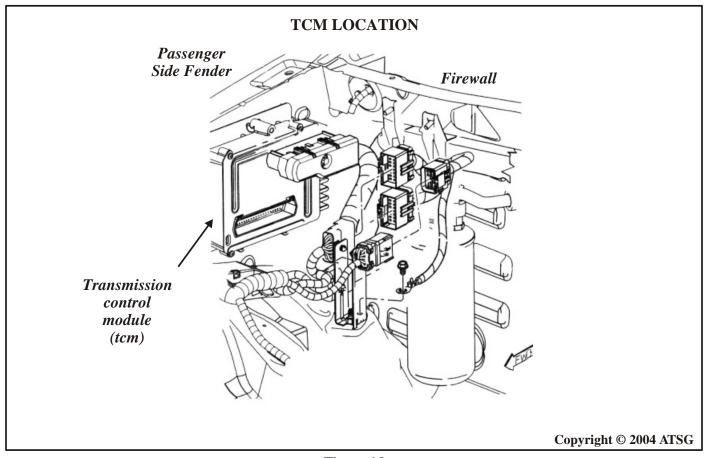
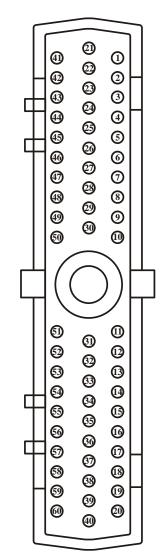


Figure 10



# CHRYSLER 42RLE 60-WAY CONNECTOR PIN CAVITY IDENTIFICATION AND FUNCTION



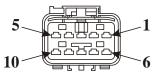
Harness Connector View Terminal Side

PIN CAVITY	WIRE COLOR	FUNCTION
1	Lt. Green/Black	Transmission Range Sensor T1 Signal
2	Tan/Black	Back-up Lamp Relay Control
3	Violet	Transmission Range Sensor T3 Signal
6	Gray/Black	Crankshaft Position Sensor Signal
7	Pink	SCI Transmit
8	Red	Fused Ignition Switch Output (Crank)
9	Orange/Black	Overdrive Pressure Switch Signal
10	Yellow/Dk.Green	Torque Management Request
11	Dk. Blue	Fused Ignition Switch Output (Crank & Run)
12	Orange/Dk. Blue	Throttle Position Sensor Signal
13	Dk. Blue/Black	Speed Sensor & TFT Ground
14	Lt. Green/White	Output Speed Sensor Signal
15	Pink	Transmission Control Relay Control
16	Red	Transmission Control Relay Output
17	Red	Transmission Control Relay Output
18	1100	Transmission Connot Realy Surput
19	Yellow/Dk. Blue	2/4 Clutch Solenoid (ground control)
20	Lt. Blue	L/R-TCC Clutch Solenoid (ground control)
28	Li. Biue	1/1-1-CC Clutch Solehold (ground control)
29		
30		
36		
37		
38		
39		
40		
	W/L:4 - /D:1-	Towns Comment (TA1) Circum
41	White/Pink Violet/White	Transmission Range Sensor (T41) Signal
	, , , , , , , , , , , , , , , , , , , ,	Transmission Range Sensor (T42) Signal
43	Violet/Yellow	PCI Bus
46	Lt. Green	SCI Recieve
47	Dk. Blue	2/4 Pressure Switch Signal
48	0 /17/1:	
49	Orange/White	Overdrive Off Switch Signal
50	Dk Green	Low/Reverse Pressure Switch Signal
51	Black/Lt. Blue	Sensor Ground
52	Red/Black	Input Speed Sensor Signal
53	Black	Ground
54	Violet	Transmission Oil Temperature Sensor Signal
55		
56	Red/White	Fused Battery Keep Alive Voltage
57	Black/Yellow	Ground
59	Pink	Underdrive Solenoid (ground control)
60	Brown	Overdrive Solenoid (ground control)

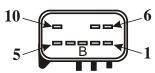
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Case Connector View



42RLE TRANSMISSION SOLENOID CONNECTOR (10-WAY)			
PIN CAVITY	WIRE COLOR	FUNCTION	
1	Brown	Overdrive Solenoid	
2	Pink	Underdrive Solenoid	
3	Red	12 VoltInput from EATX Relay	
4	Yellow/Dk Blue	2/4 Solenoid	
5	Dk Blue	2/4 Pressure Switch	
6	Orange/Black	Overdrive Pressure Switch	
7	Lt Blue	Low/Reverse Solenoid	
8	Not Used	Not Used	
9	Not Used	Not Used	
10	Dk Green	Low/Reverse Pressure Switch	

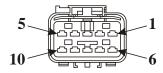
The resistance of the solenoids and pressure switch resistors remains the same as all previous 41TE and 42LE transaxles.

1.5 to 2.5 ohms for the solenoids and
270 to 330 ohms for the resistors.

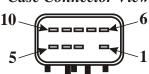
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Figure 12

Harness Connector View



Case Connector View



42RLE TRANSMISSION RANGE SENSOR CONNECTOR (10-WAY)				
PIN CAVITY	WIRE COLOR	FUNCTION		
1	Dk Blue/White	Fused Ignition Switch Output (Start)		
2	Not Used	Not Used		
3	Dk Blue/Black	Speed Sensor Ground		
4	Violet	Transmission Temperature Sensor Signal		
5	Black/White	Park/Neutral Position Signal		
6	Violet/Black	Back-Up Lamp Feed		
7	Lt Green/Black	Transmission Range Sensor T1 Signal		
8	Violet	Transmission Range Sensor T3 Signal		
9	Violet/White	Transmission Range Sensor T42 Signal		
10	White/Pink	Transmission Range Sensor T41 Signal		

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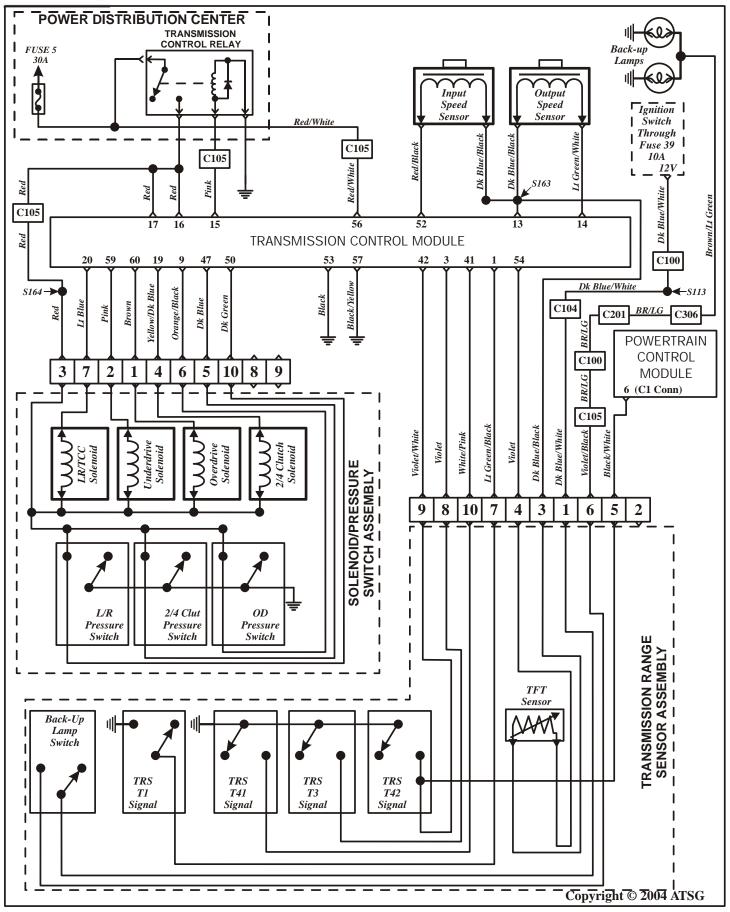


Figure 14
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