

Transmission Type...4R44E/4R55E/5R55E

Rebuilder's Kwik Reference Guide



Clutch Clearances Adjusted By:

Forward Clutch.....	.055-.083”	.....	Snap Ring
Intermediate Clutch			
Direct Clutch.....	.051-.070”	.....	Snap Ring
Low/Reverse Clutch			
Reverse Clutch			
Coast Overrun Clutch.....	.051-.079”	.....	Snap Ring
Overdrive Clutch			

Band Adjustment

Intermediate Band.....	10 Ft Lbs.	.....	2 Turns
2-4 Band			
Low/Reverse Band.....	.120-.220”	.....	Servo Pin
Overdrive Band.....	10 Ft Lbs.	.....	2 Turns

Torque Specifications

Pump Cover.....	16-21 Ft Lbs.
Pump to Case.....	27-39 Ft Lbs.
Valve Body.....	(Separator Plate) 53-71 In Lbs.
Valve Body To Case.....	71-97 In Lbs.
Differential Cover To Case	
Pan.....	8-10 Ft Lbs.
Center Support.....	80-115 In Lbs.
Extension Housing.....	27-39 Ft Lbs.
Driven Sprocket Support	
Overdrive Support	
Chain Cover	
Reverse Servo Cover to Case.....	80-115 In Lbs.
Bellhousing to Main Case.....	27-39 Ft Lbs.
Accumulator Cover	
Endcover Bolts	
Input Speed Sensor.....	71-97 In Lbs.
Band Adjusting Nuts.....	35-45 Ft Lbs.

Unit Endplays

Front Unit - Measure to Select.....	OD Brake Drum.....	Washer
Middle Unit - Measure to Select.....	Inner Brake Drum.....	Washer
Rear Unit		
Differential		
Chain Sprocket		
Output Shaft		
Transfer Shaft		

Selective

Washer
Washer

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Clutch & Band/Solenoid Application Charts

4R44E, 4R55E Clutch & Band Application Chart										
Gear	Overdrive Band	Intermediate Band	Low/Reverse Band	Forward Clutch	Direct Reverse Clutch	Coast Clutch	OD 1-Way Drive Clutch	OD 1-Way Coast Clutch	Rear 1-Way Drive Clutch	Rear 1-Way Coast Clutch
Reverse			Applied		Applied	Applied*	Holding	Overrunning		
Drive	1st			Applied		Applied*	Holding	Overrunning	Holding	Overrunning
	2nd			Applied		Applied*	Holding	Overrunning	Overrunning	Overrunning
	3rd			Applied	Applied	Applied*	Holding	Overrunning	Overrunning	Overrunning
	4th			Applied	Applied			Overrunning	Overrunning	Overrunning
Manual	1st		Applied	Applied		Applied	Holding	Overrunning	Holding	Holding
	2nd			Applied	Applied	Applied	Holding	Overrunning	Holding	

* Applied with TCS On - Overdrive Cancelled

4R44E, 4R55E Solenoid Application Chart						
Gear	Shift Solenoid 1	Shift Solenoid 2	Shift Solenoid 3	Lock-Up* (Pulsed)	Coast Clutch Solenoid	EPC (Pulsed)
1st	On	Off	Off	Off	On/Off	Select Duty
2nd	On	On	Off	On/Off	On/Off	Select Duty
3rd	Off	Off	Off	On/Off	On/Off	Select Duty
4th	Off	Off	On	On/Off	On/Off	Select Duty

Lock-Up is normally activated in 2nd, 3rd and 4th gears.

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Clutch & Band/Solenoid Application Charts

5R55E Clutch & Band Application Chart										
Gear	Front Band	Intermediate Band	Low/Reverse Band	Forward Clutch	Direct Clutch	Coast Clutch	Front 1-Way Drive Clutch	Front 1-Way Coast Clutch	Rear 1-Way Drive Clutch	Rear 1-Way Coast Clutch
Reverse			Applied		Applied		Applied	Overrunning		
1st				Applied			Applied	Overrunning	Holding	Overrunning
1st (OD Cancelled)				Applied			Applied	Holding	Holding	Overrunning
2nd	Applied			Applied			Overrunning	Overrunning	Holding	Overrunning
2nd (OD Cancelled)	Applied			Applied			Overrunning	Overrunning	Holding	Overrunning
3rd		Applied		Applied			Holding	Overrunning	Overrunning	Overrunning
3rd (OD Cancelled)		Applied		Applied			Holding	Holding	Overrunning	Overrunning
4th				Applied			Holding	Overrunning	Overrunning	Overrunning
4th (OD Cancelled)				Applied	Applied		Holding	Holding	Overrunning	Overrunning
5th	Applied			Applied	Applied		Holding	Holding	Overrunning	Overrunning
1st			Applied	Applied		Applied	Holding	Holding	Holding	Overrunning
2nd		Applied		Applied		Applied	Holding	Holding	Overrunning	Overrunning

5R55E Solenoid Application Chart						
Gear	Shift Solenoid 1	Shift Solenoid 2	Shift Solenoid 3	Lock-Up* (Pulsed)	Coast Clutch Solenoid	EPC (Pulsed)
1st	On	Off	Off	Off	On/Off	Select Duty
2nd	On	Off	On	On/Off	On/Off	Select Duty
3rd	On	On	Off	On/Off	On/Off	Select Duty
4th	Off	Off	Off	On/Off	On/Off	Select Duty
5th	Off	Off	On	On/Off	On/Off	Select Duty

Lock-Up is normally activated in 2nd, 3rd and 4th gears.

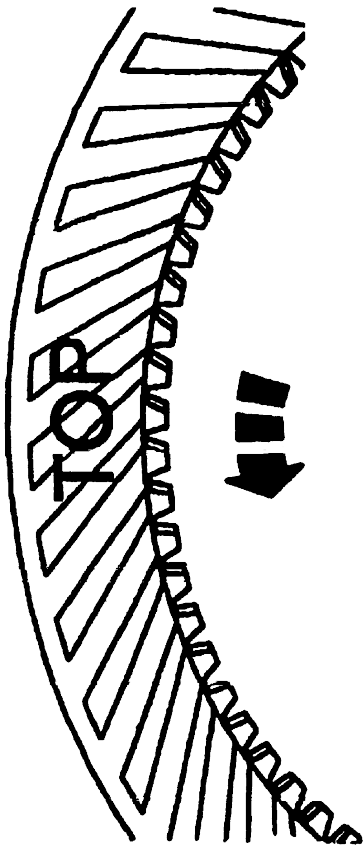
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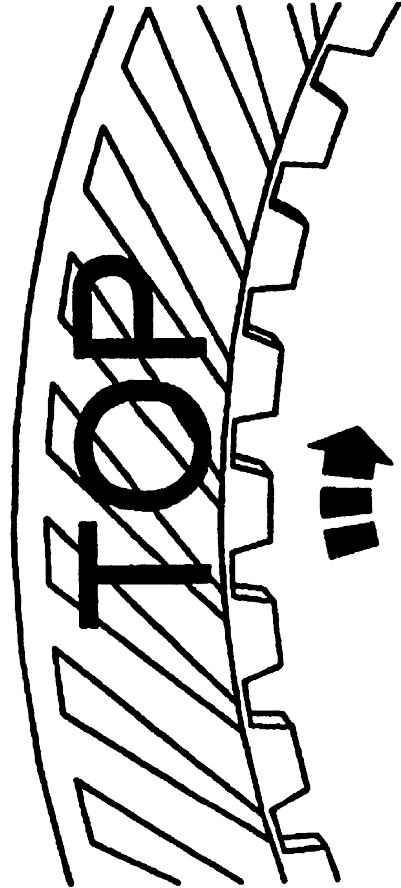


Technical Tips For Rebuilding This Unit

Forward Clutch

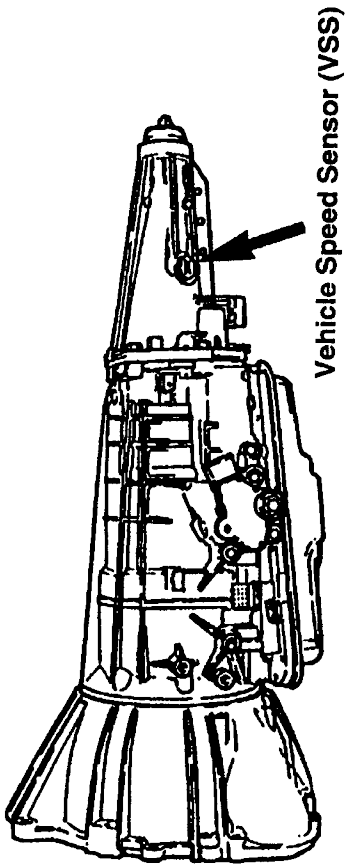


Direct And Coast Clutch



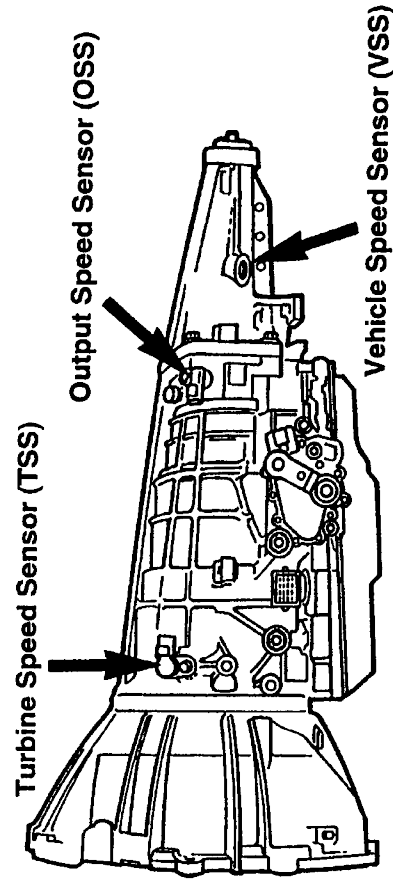
Grooved Clutch Disc Direction

4R44E Transmissions



Vehicle Speed Sensor (VSS)

5R55E Transmissions



Turbine Speed Sensor (TSS)

Output Speed Sensor (OSS)

Vehicle Speed Sensor (VSS)

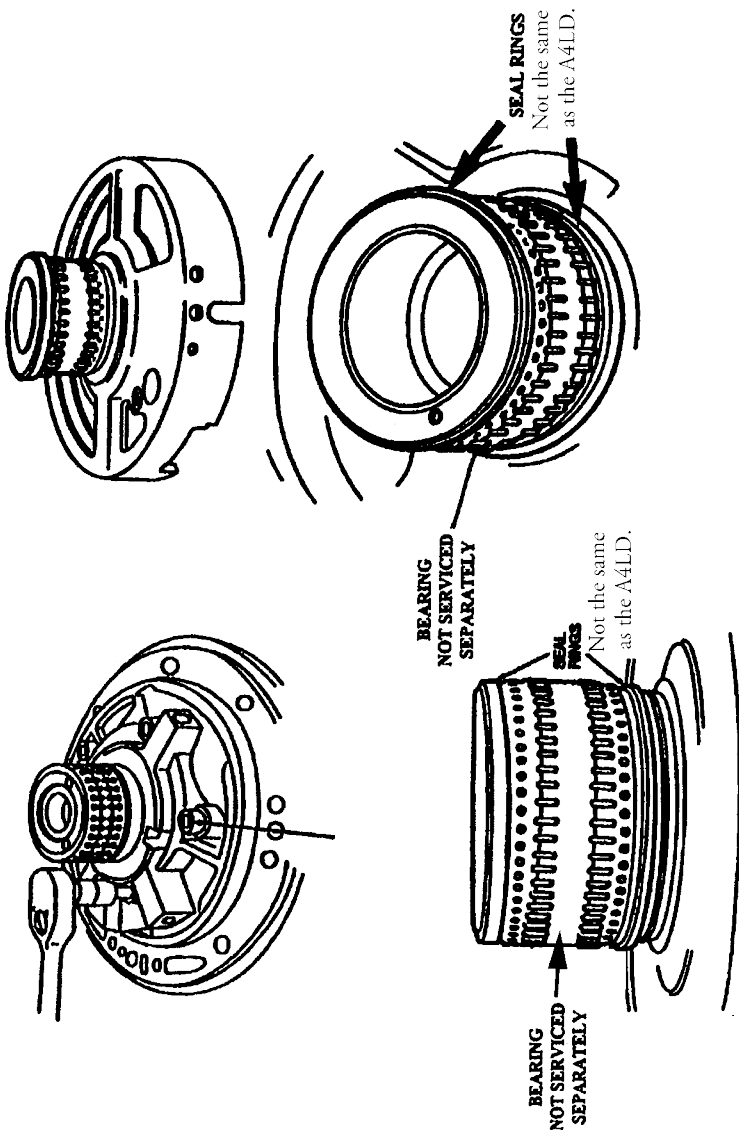
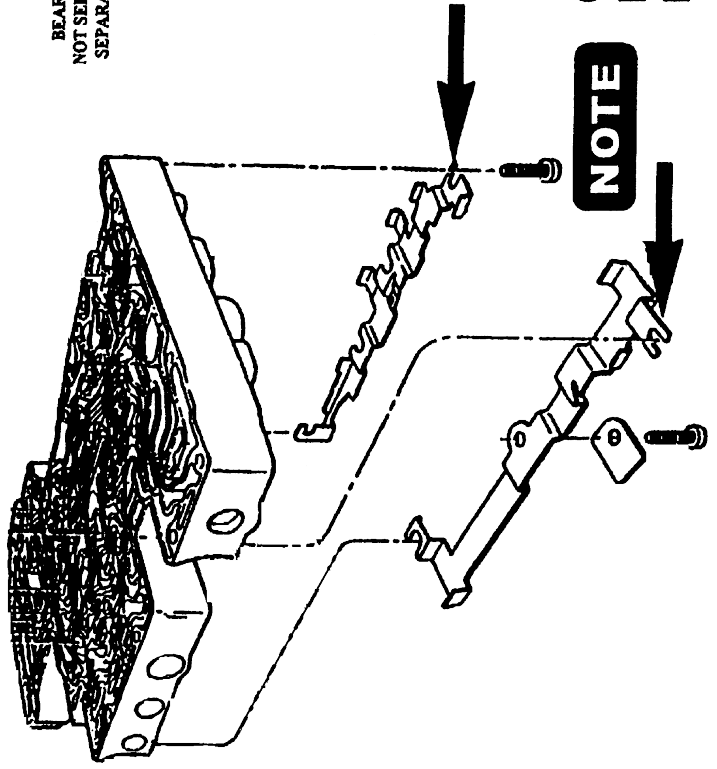
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Technical Tips For Rebuilding This Unit

If either of these brackets are broken, there will be no line rise



Check these brackets for breakage.

NOTE

Oil Control Ring Availability

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Technical Tips For Rebuilding This Unit

Main Control/Separator Plate Identification								
Application	Transmission ID Tag Number (-7000-)	New Main Control Number (-7A100-)	New Separator Plate Number (-7A008-)	New Plate ID Notch	OH Main Control Number (-7A100-)	OH Separator Plate Number (-7A008-)	OH Plate ID Notch	
1997 2.3L Ranger	97GT-GCA	F77Z-AA	F77Z-AA	PJ	97GT-CBD	97GT-CBB	LL	
1997 3.0L Ranger	97GT-ECA 97GT-FCA	F77Z-BA	F77Z-AA	PJ	97GT-BBC	97GT-CBB	LL	
1997 3.0L Aerostar	97GT-RCA 97GT-SCA							
1997 4.0L Ranger	97GT-KCA 97GT-LCA	F77Z-CA	F77Z-CA	PH	97GT-DEC	97GT-ABD	KK	
1997 4.0L Aerostar	97GT-RCA 97GT-SCA							
1997 4.0L EI Explorer	97GT-KCA 97GT-LCA	F77Z-DA	F77Z-DA	PG	97GT-DED	97GT-ABE	PP	
1997 4.0L SOHC Explorer	97GT-ACA 97GT-BCA	F77Z-EA	F77Z-EA	PF	97GT-FED	97GT-BBC	M	
1998 2.5L Ranger	98GT-GAA	F87Z-ABPE	F87Z-AA	PE	98GT-DAA	98GT-BAD	AA	
1998 3.0L Ranger	98GT-EAA 98GT-FAA	F87Z-BB	F87Z-BA	PD	98GT-AAB	98GT-CAC	A	
1998 4.0L Ranger	98GT-KAA 98GT-LAA	F87Z-CB	F87Z-CA	PC	98GT-BAA	98GT-BAB	NN	
1998 4.0L EI Explorer	98GT-CBA 98GT-DBA	F87Z-DB	F87Z-DA	PB	98GT-EAA	98GT-BAE	B	
1998 4.0L SOHC Explorer/Mountaineer	98GT-BAA 98GT-AAA	F87Z-EB	F87Z-EA	PA	98GT-CAA	98GT-BAA	P	

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Technical Tips For Rebuilding This Unit

Separator Plate Identification Notches

	PJ
	PH
	PG
	PF
	PE
	PD
	PC
	PB
	PA

	B
	AA
	A
	PP
	P
	NN
	M
	LL
	KK

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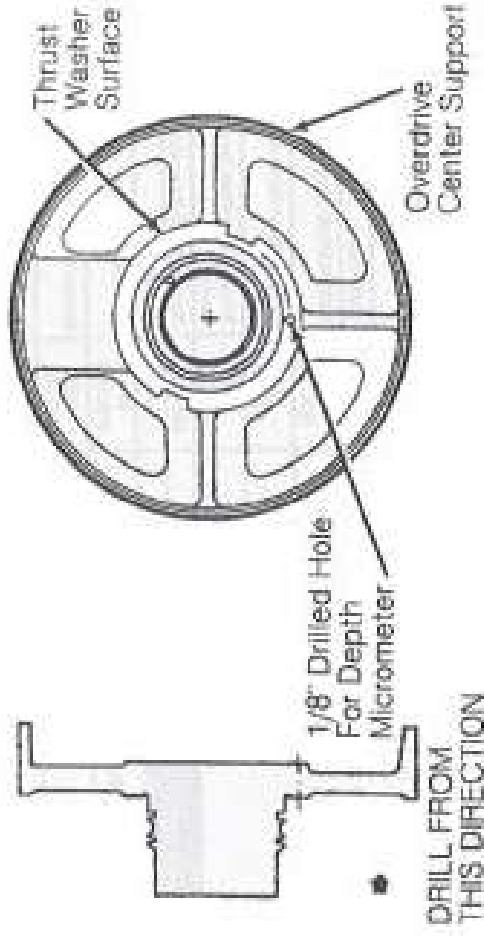
Technical Tins For Rebuilding This Unit



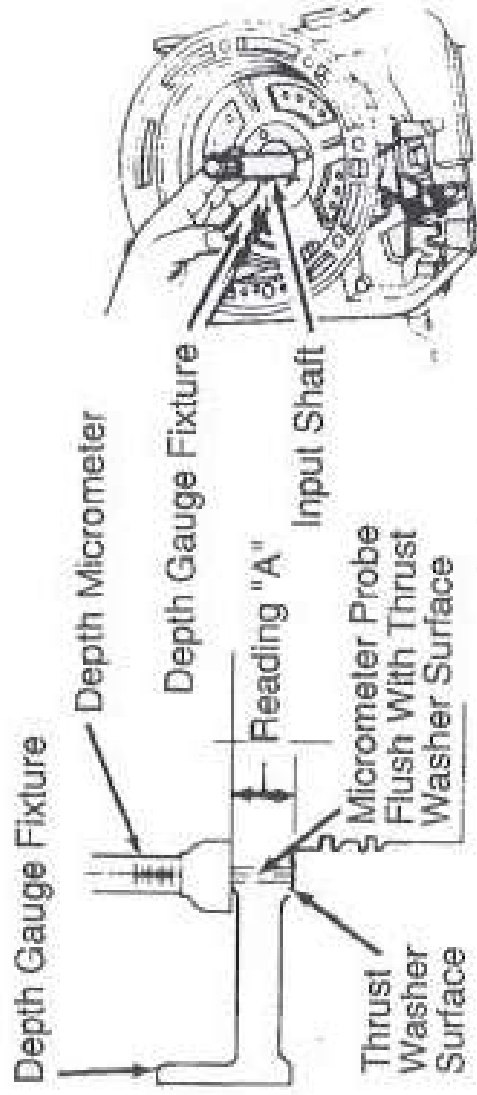
OD Sprag



Low Sprag



Drilling for Depth Micrometer



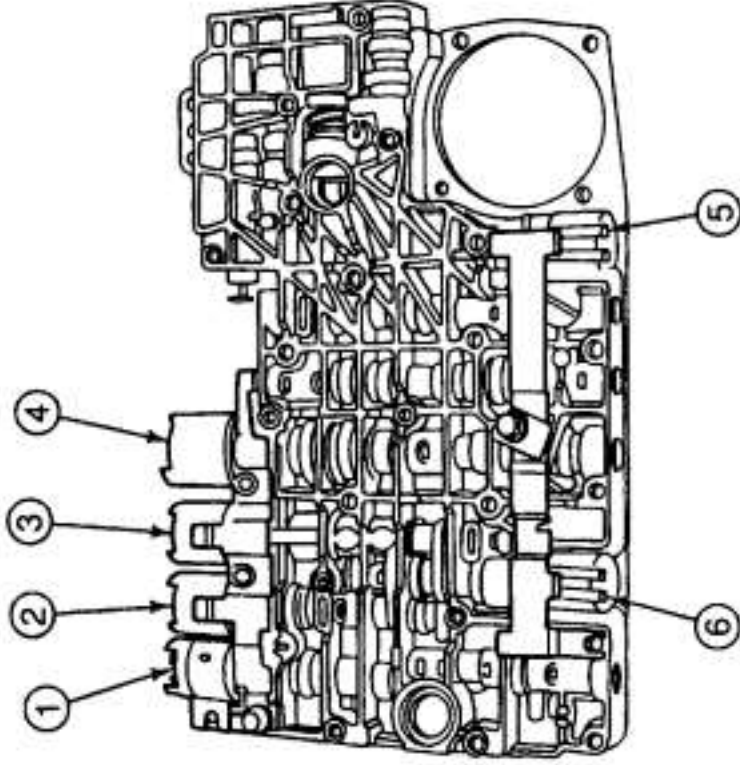
Rear Endplay Check

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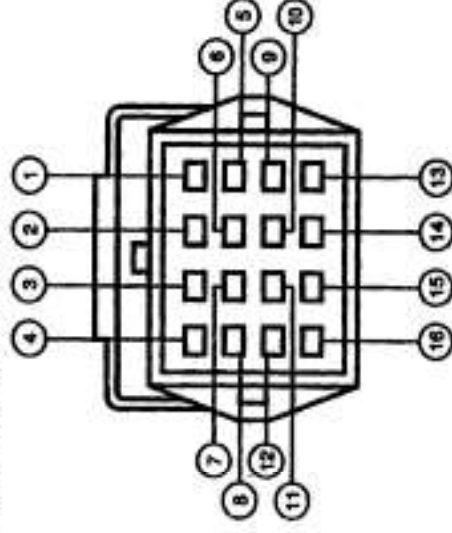


Solenoid & Harness Information



#	OE Part #	Description	Resistance
1	7F037	Torque Converter Clutch Solenoid	8.9 - 16.0 Ohms
2	7M107	Coast Clutch Solenoid	22 - 48 Ohms
3	7M107	Shift Solenoid #2	22 - 48 Ohms
4	6916	EPC Solenoid	3.1 - 5.7 Ohms
5	7M107	Shift Solenoid #1	22 - 48 Ohms
6	7M107	Shift Solenoid #3	22 - 48 Ohms

Transmission External Harness



Pin Number	Circuit	Circuit Function
1	361 (R)	TCC Power
2	970 (GR/W)	Turbine Shaft Speed Sensor Signal
3	359 (GY/R)	Sensor Signal Return (TSS)
4	923 (O/BK)	Transmission Fluid Temperature Sensor
5	480 (P/Y)	Torque Clutch Solenoid
6	—	NOT USED
7	971 (BK/O)	Shift Solenoid No. 3
8	359 (GR/R)	Sensor Signal Return (TFT)
9	924 (BR/O)	Shift Solenoid No. 4
10	361 (R)	Shift Solenoid Power
11	361 (R)	EPC Power
12	926 (W/Y)	Electronic Pressure Control Solenoid
13	—	NOT USED
14	315 (P/O)	Shift Solenoid No. 2
15	—	NOT USED
16	237 (O/Y)	Shift Solenoid No. 1

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Checkball Locations

