

RatioTek™

Oil Pressure Checks

Ford 5R55W&S

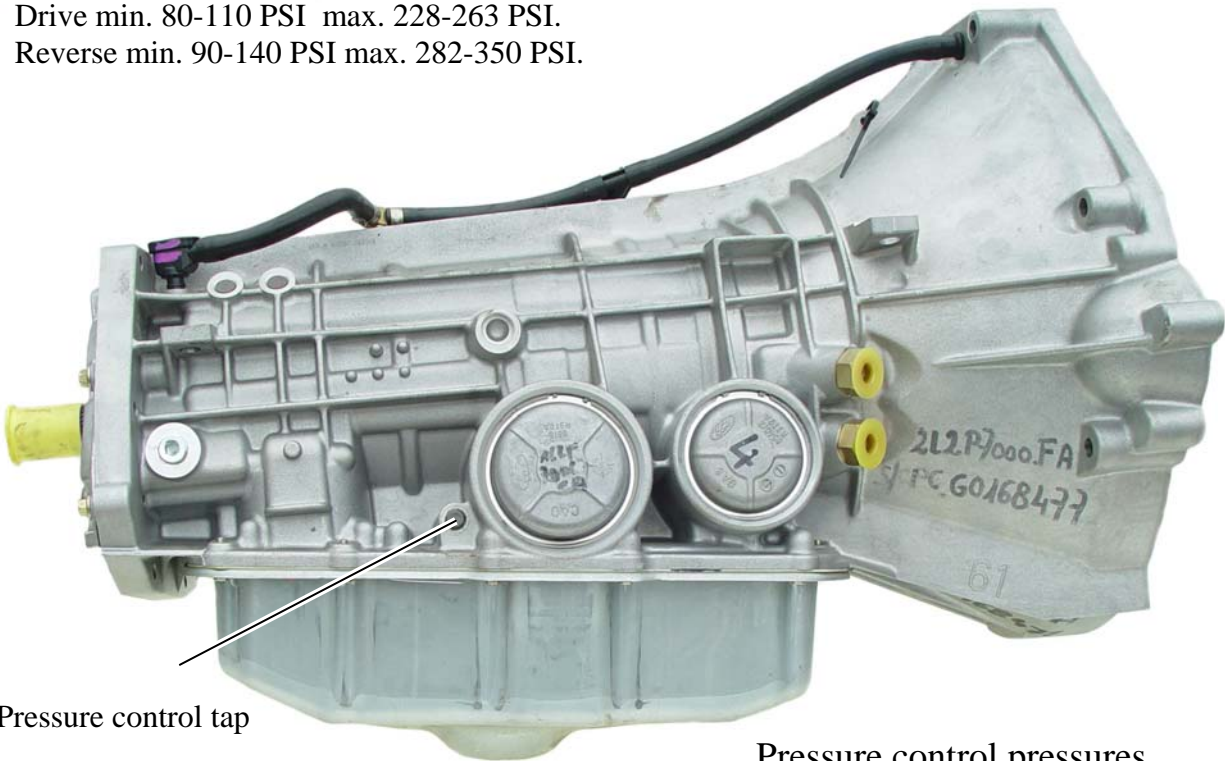
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256-830-2199



Line pressure tap

Line pressures

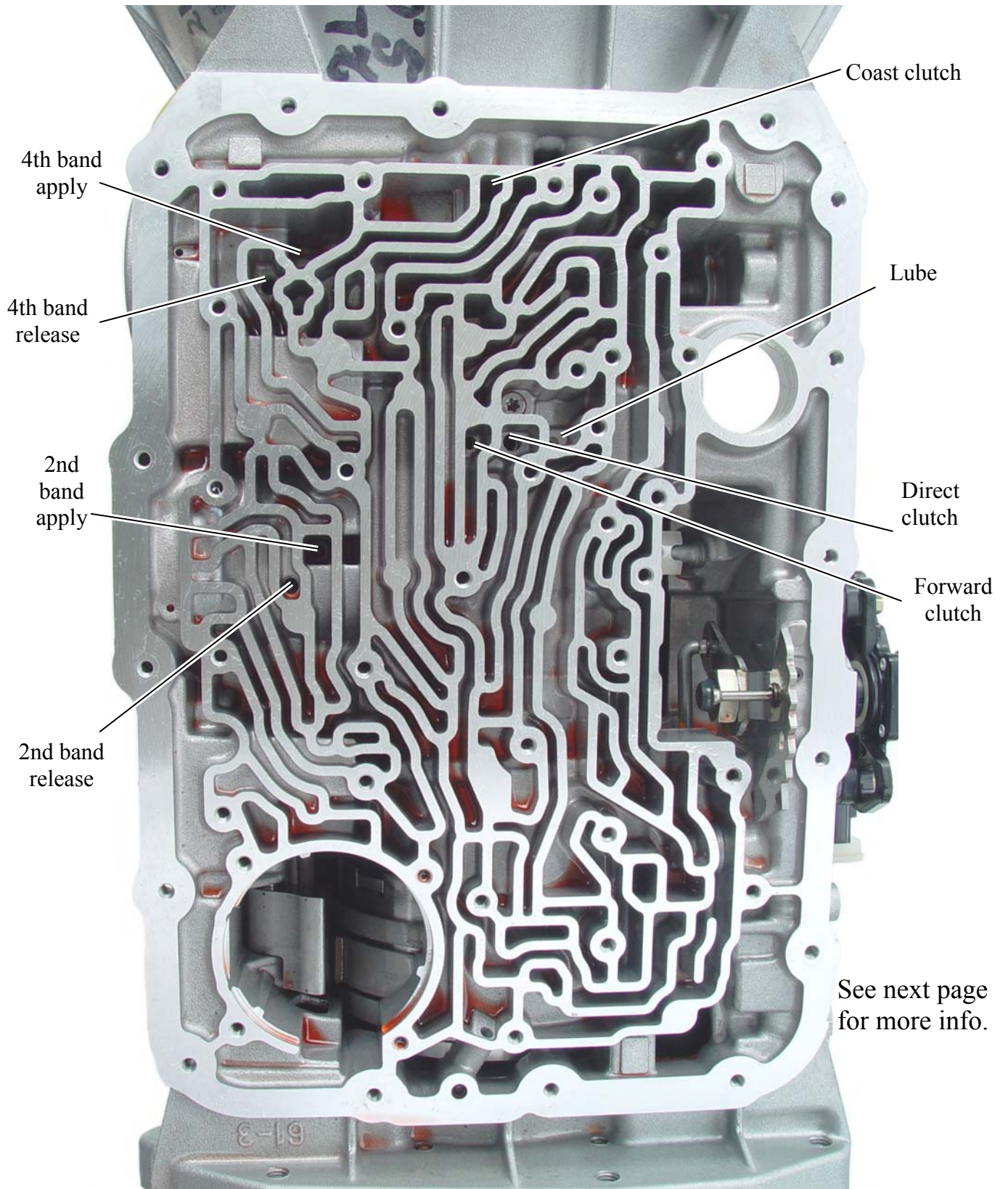
Drive min. 80-110 PSI max. 228-263 PSI.
Reverse min. 90-140 PSI max. 282-350 PSI.



Pressure control tap

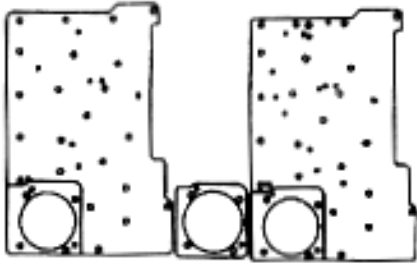
Pressure control pressures
min. 0-15 PSI max. 112-134 PSI.

Air Checks



Transmission Test Plate and Gasket

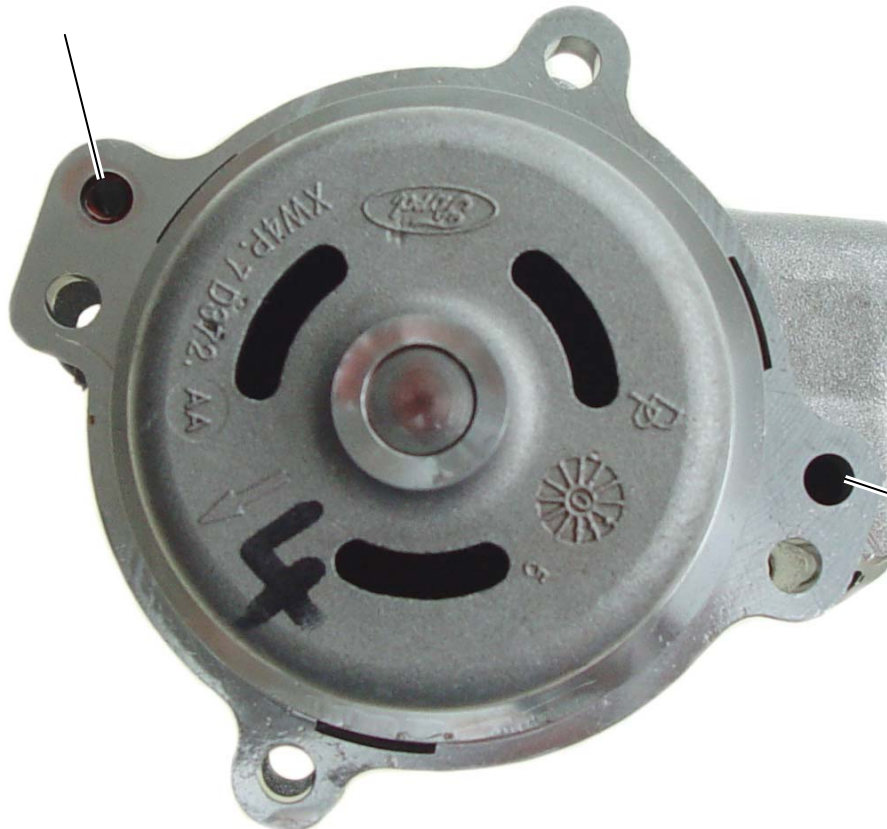
307-433-01, 307-433-02,
307-433-03



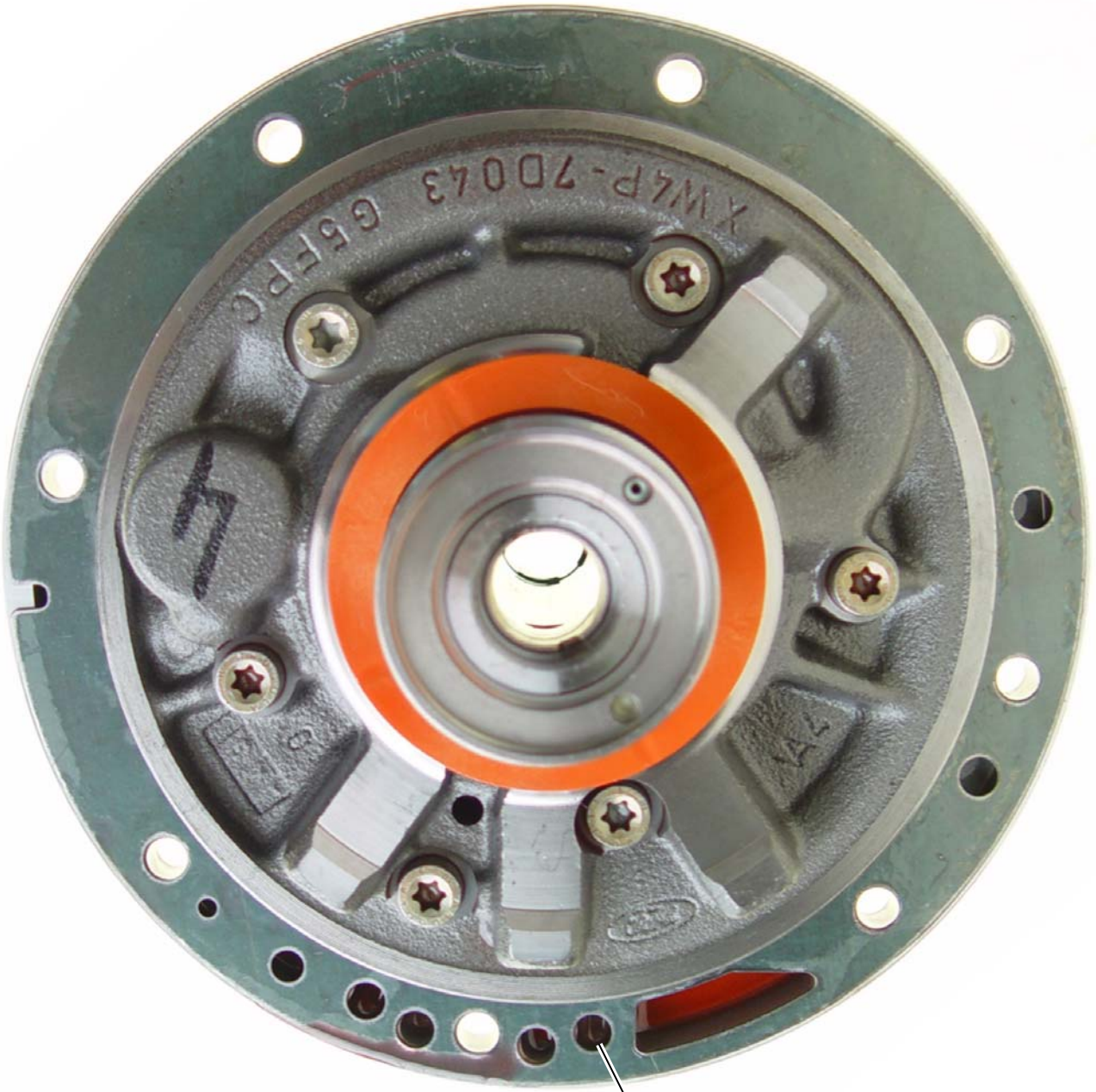
ST2538-A

To air check the case area use the test plate shown below or use cut off pieces of hose to reach the bottom of the web areas and—or flat metal plates with holes in them on the passages that the rubber tip air guns will not fit.

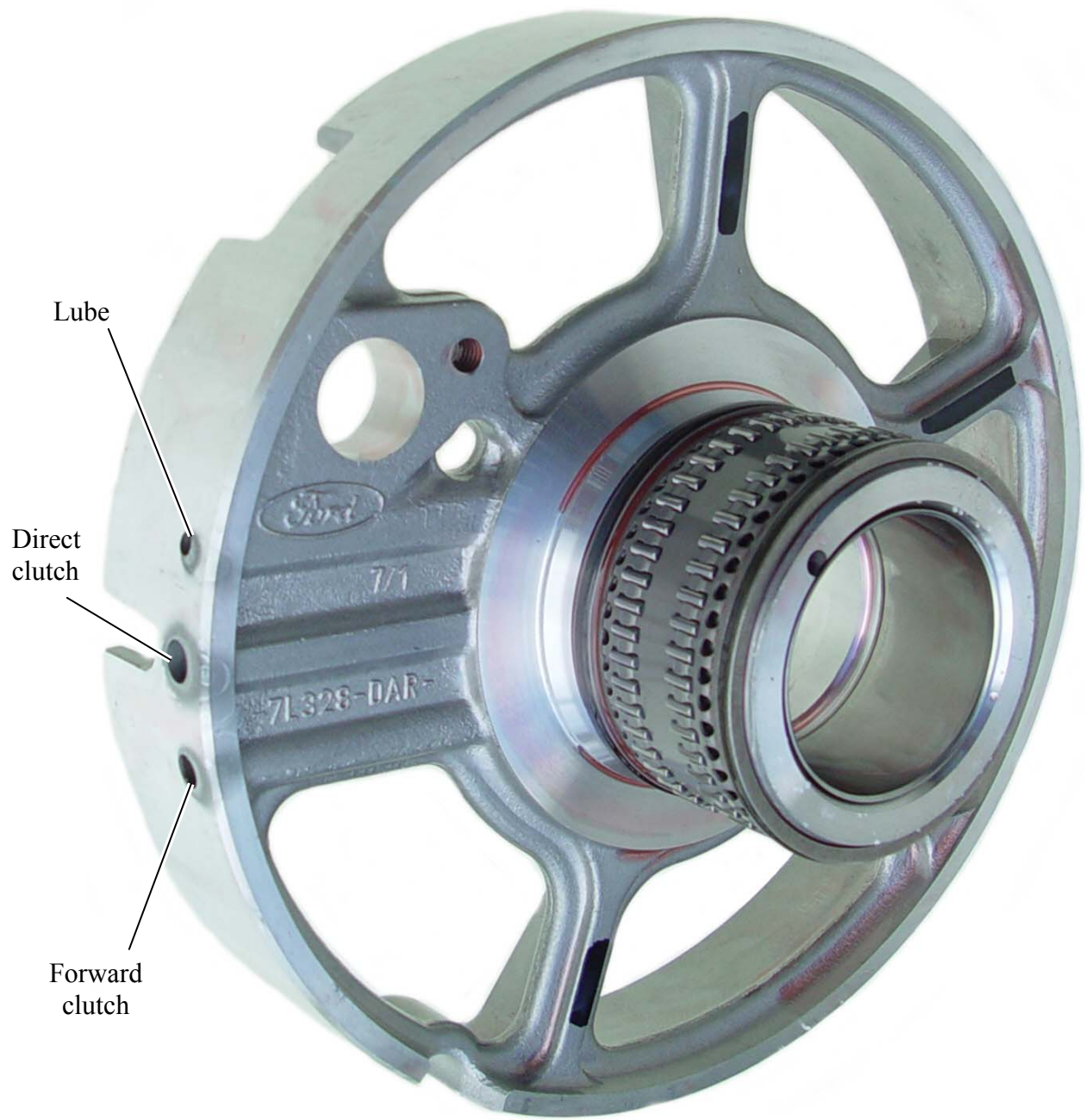
Low apply



Reverse
apply



Coast clutch



Oil Pan & Oil Levels



Torque
pan bolts
to 8 lb. ft.

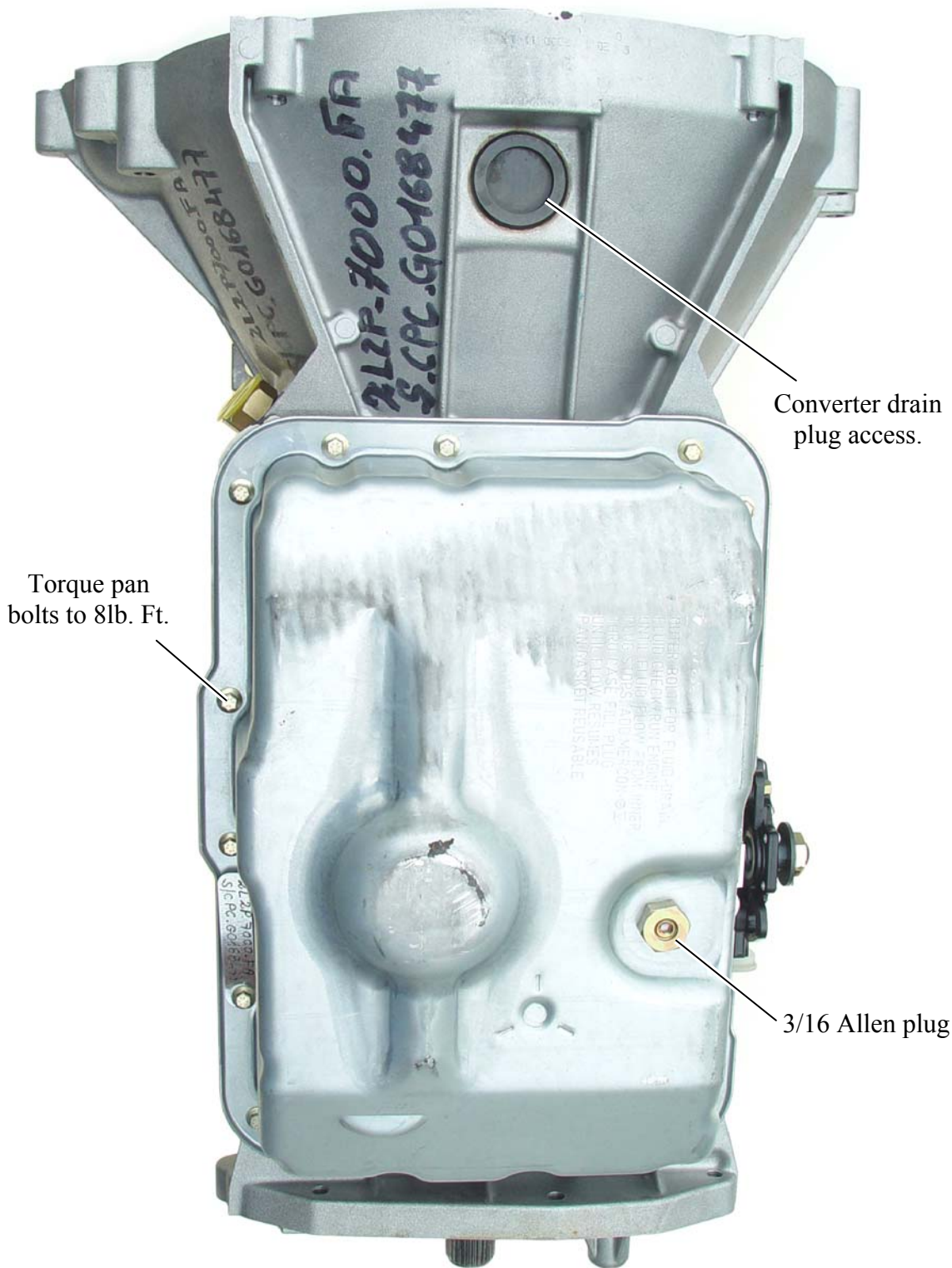
Oil level pipe establishes oil level in transmission oil pan. Remove plug from the bottom side of the pan using 3/16 Allen wrench, let run out what will, then replace plug.



No dipstick
Fill through the fill plug shown or the speed sensor locations
When oil comes out level pipe, transmission is full.
Check when warm.



Total capacity is 12.7 quarts of Mercon V fluid.
Using other fluids may cause chatters and squawks.

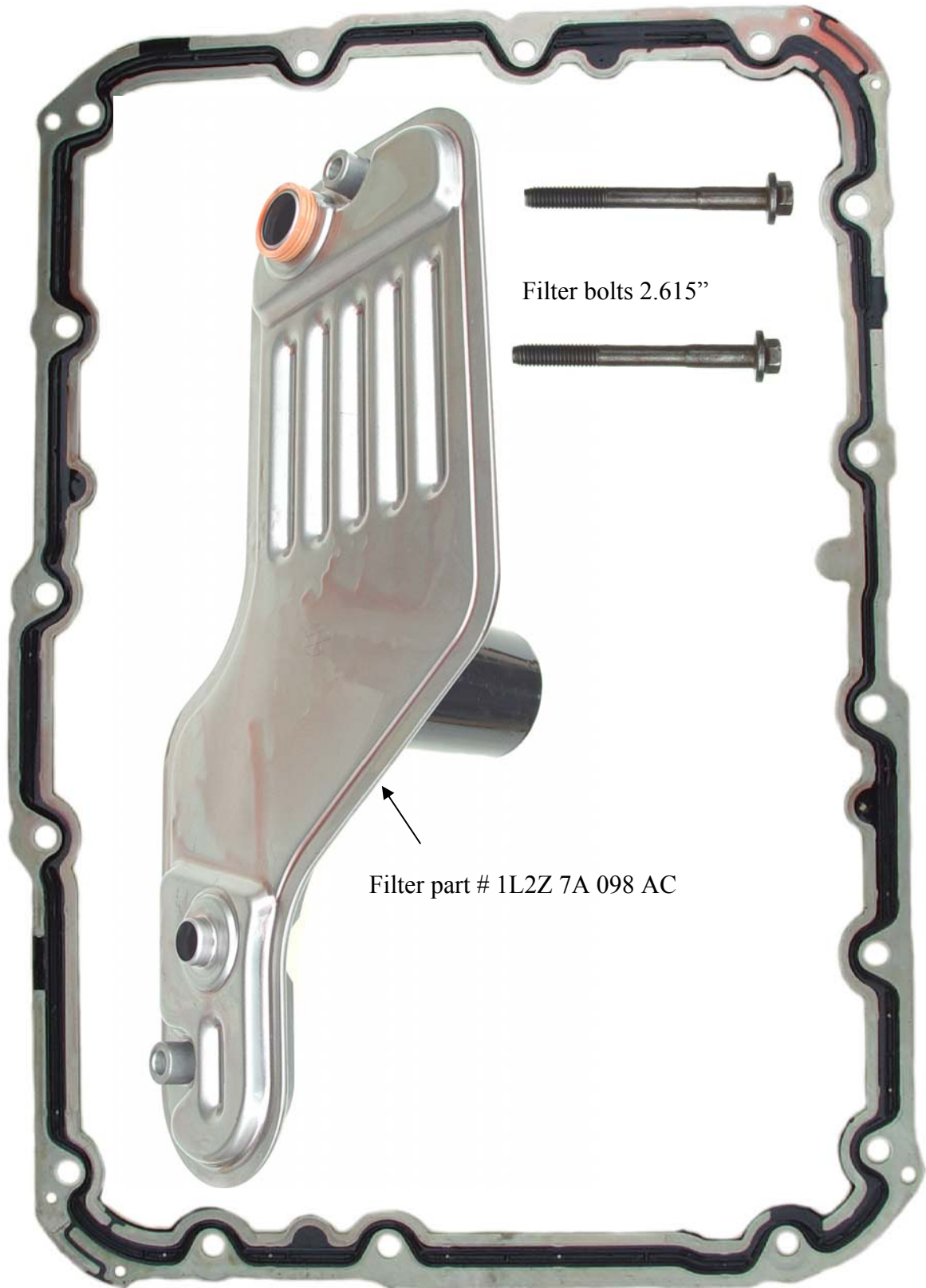


Torque pan bolts to 8lb. Ft.

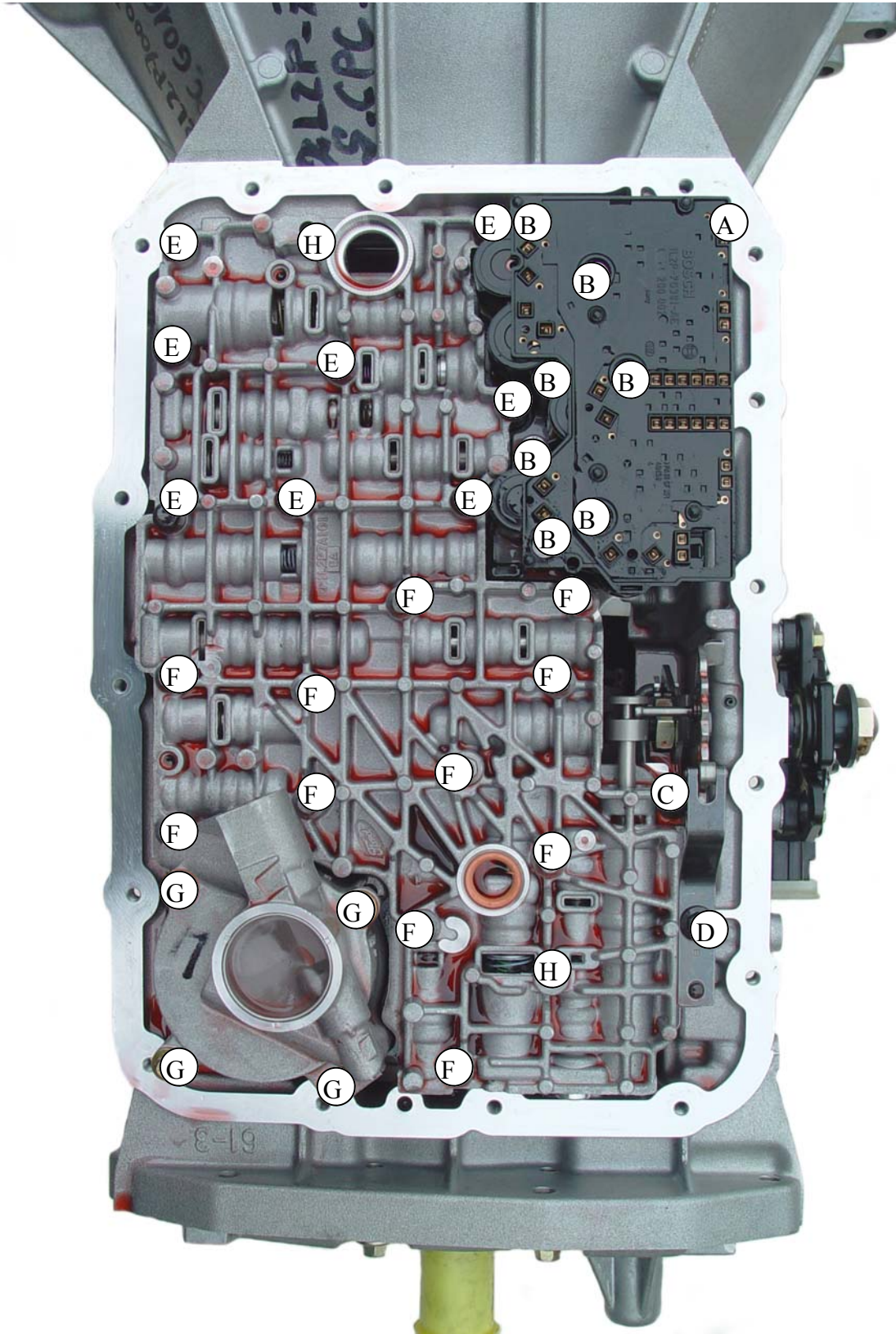
Converter drain plug access.

3/16 Allen plug

Filter and Pan Gasket



Valve Body Bolts



Solenoid body bolts—torque to 71 in. lb.

A  1.114" 1 piece Torx

B  2.638" 7 pieces Torx

Valve body & filter bolts—torque to 89 in.lb

C  1.319" 1 piece 8mm

D  1.421" 1 piece 8mm

E  1.817" 7 pieces 8mm

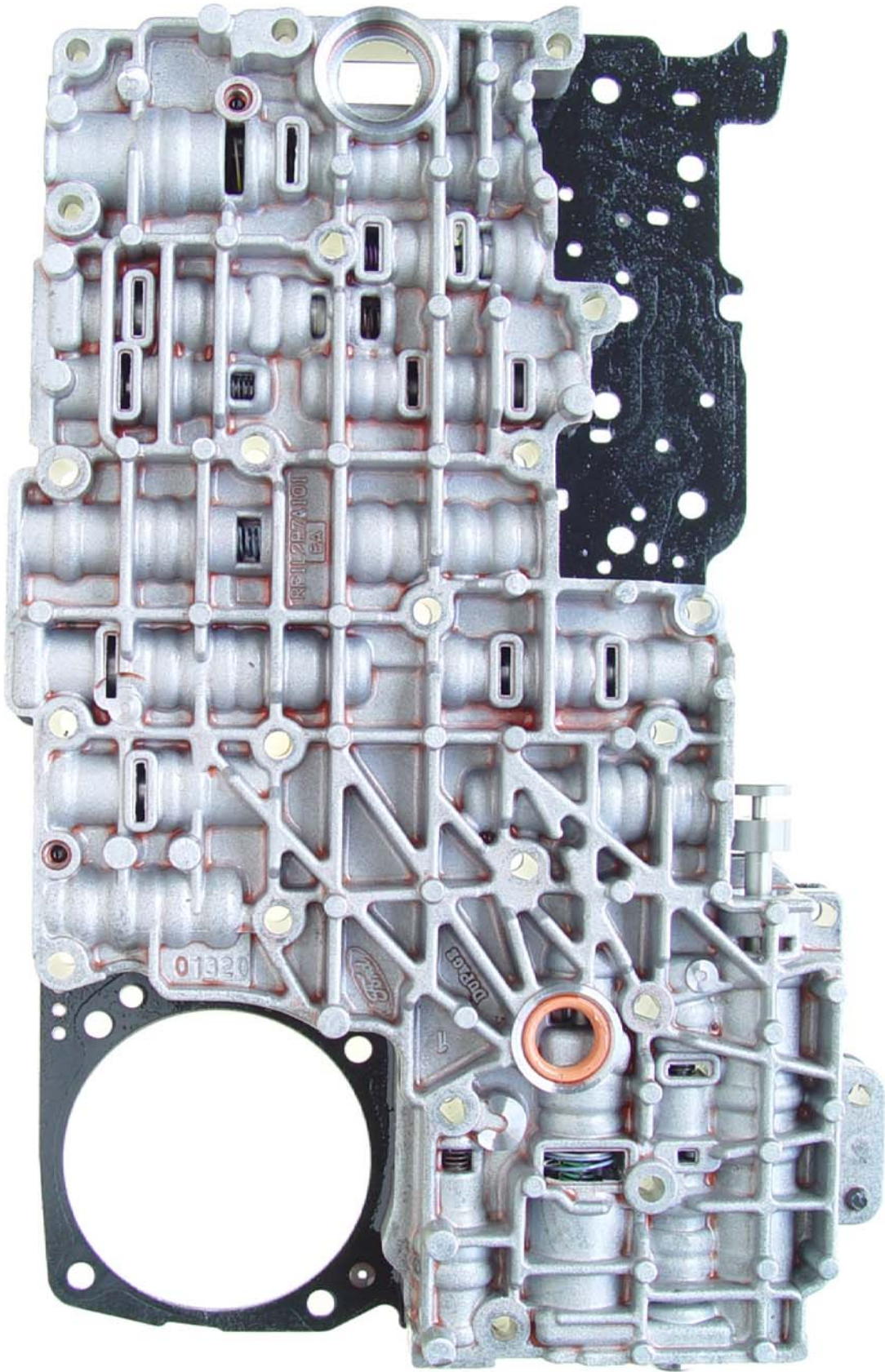
F  1.833" 11 pieces 8mm

G  2.073" 1 piece 10mm

H  2.615" filter bolts 2 pieces 8mm

G  2.947" reverse servo body bolts
4 pieces 8mm

Valve Body



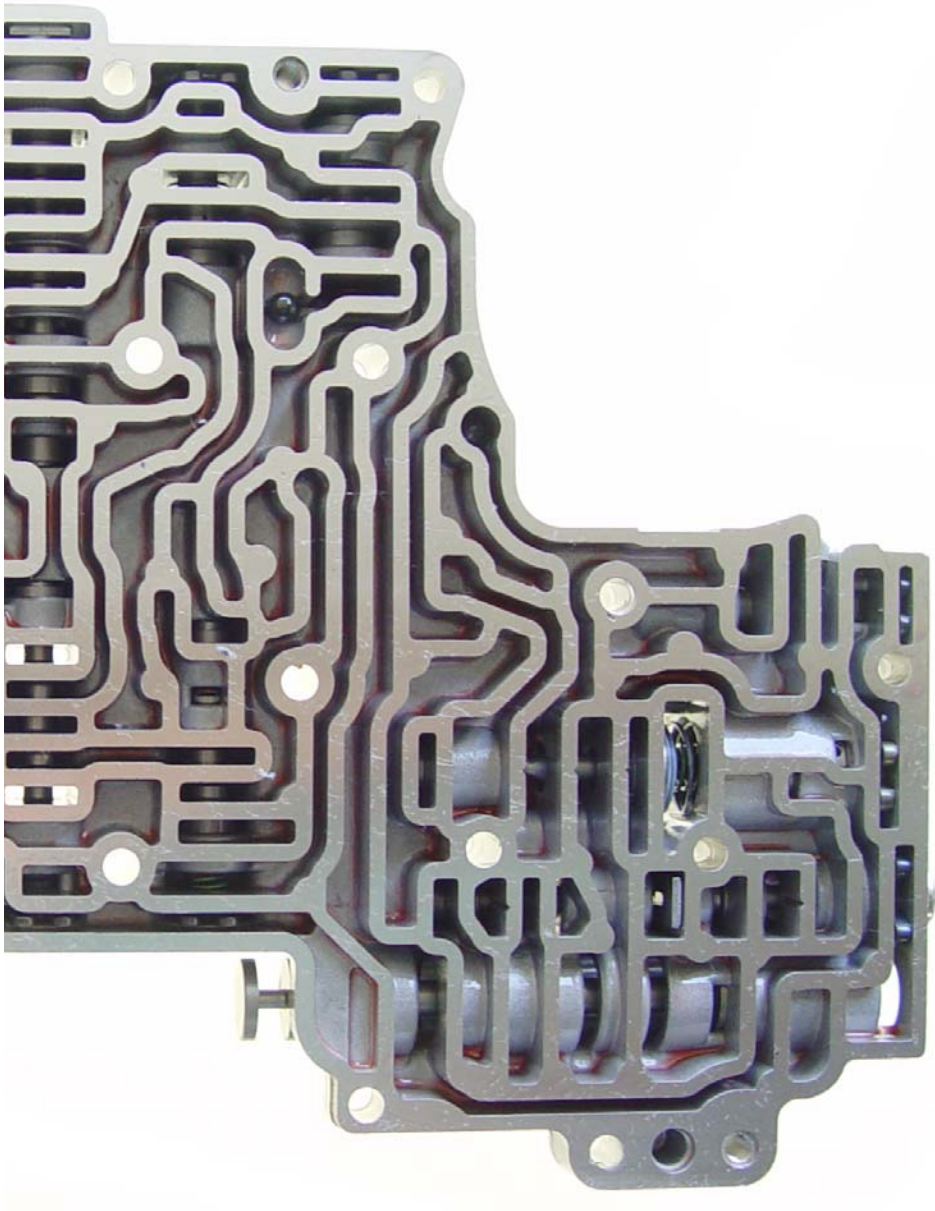
.946" plate bolts 3
pieces
Torque to 89 in. lb.

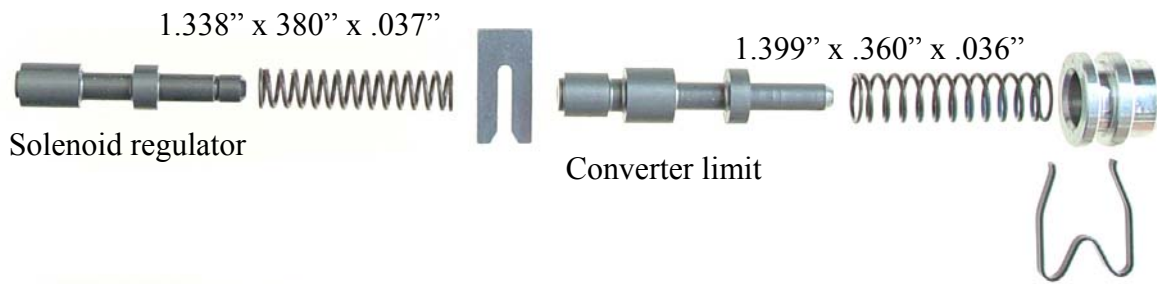
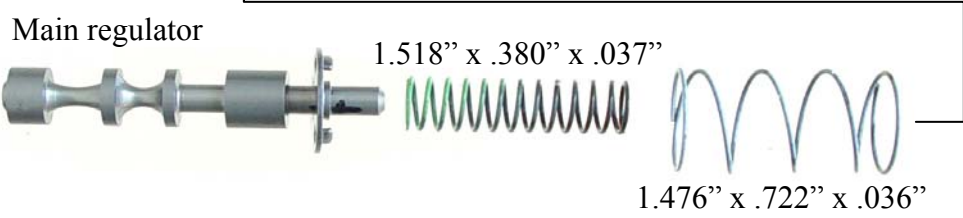
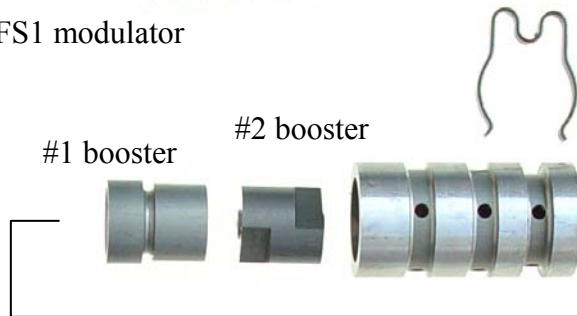


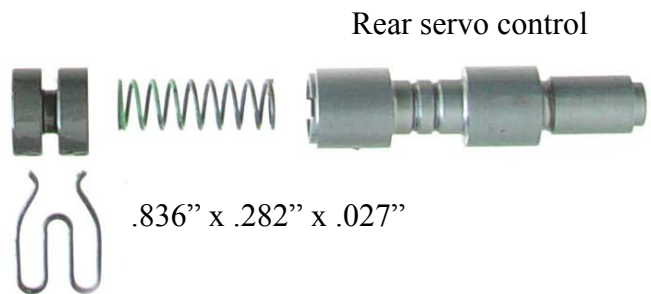
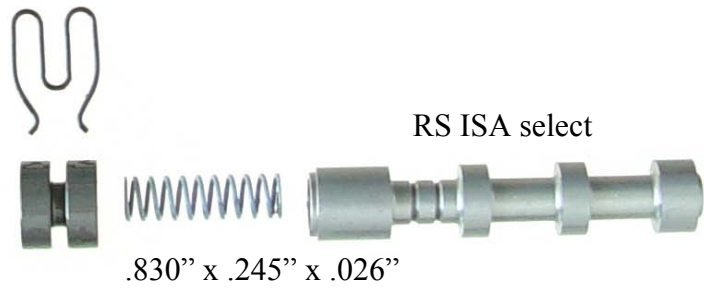
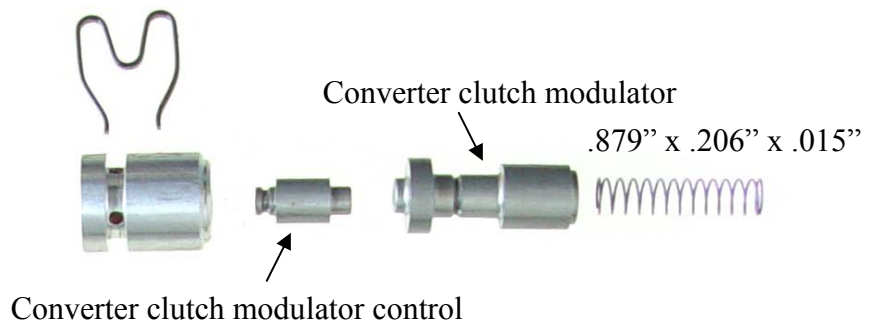
A locations

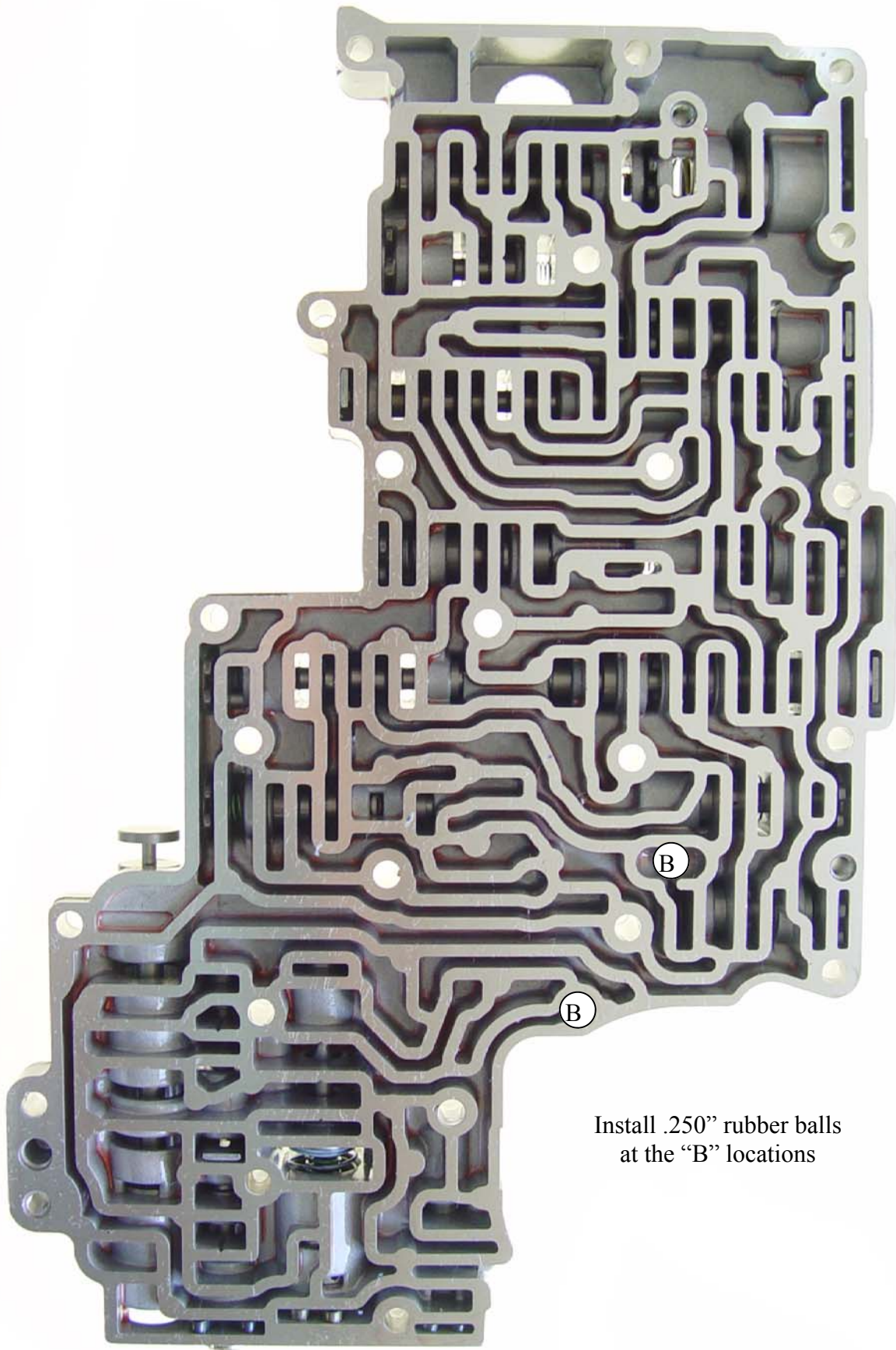


Valve Body

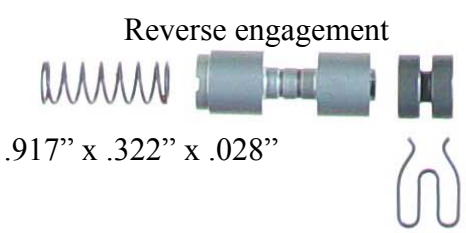
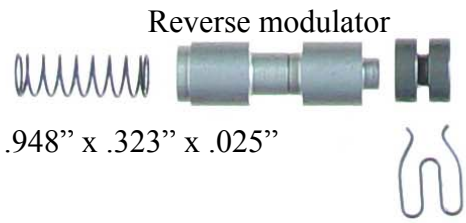
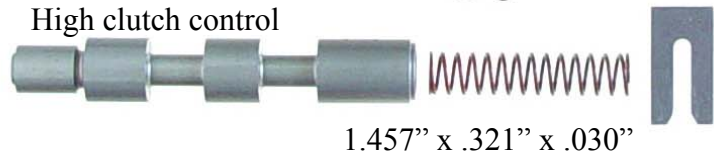
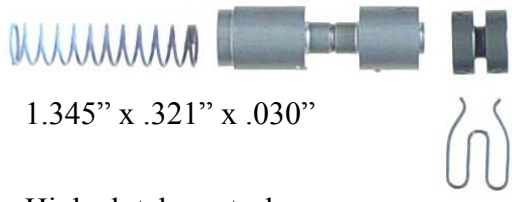
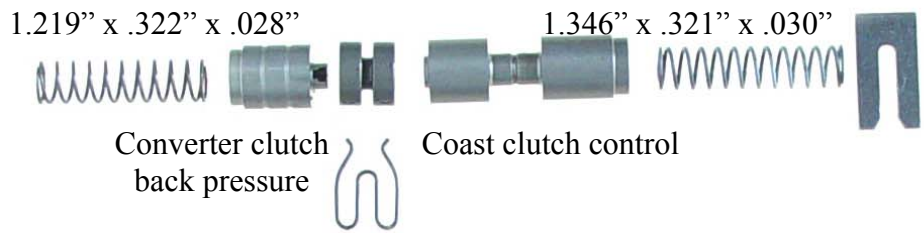
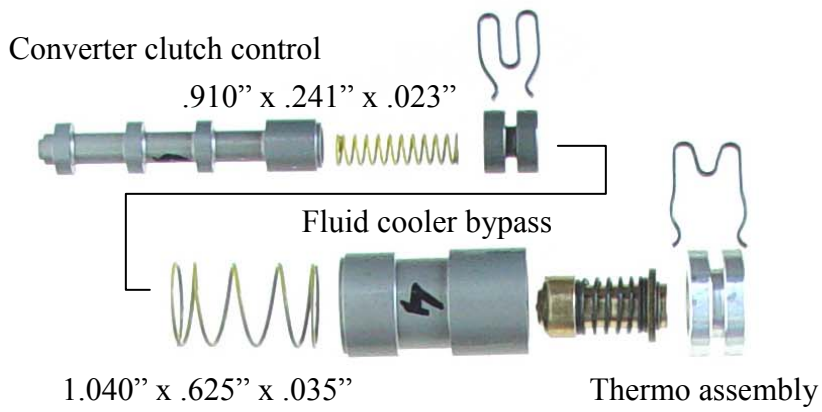




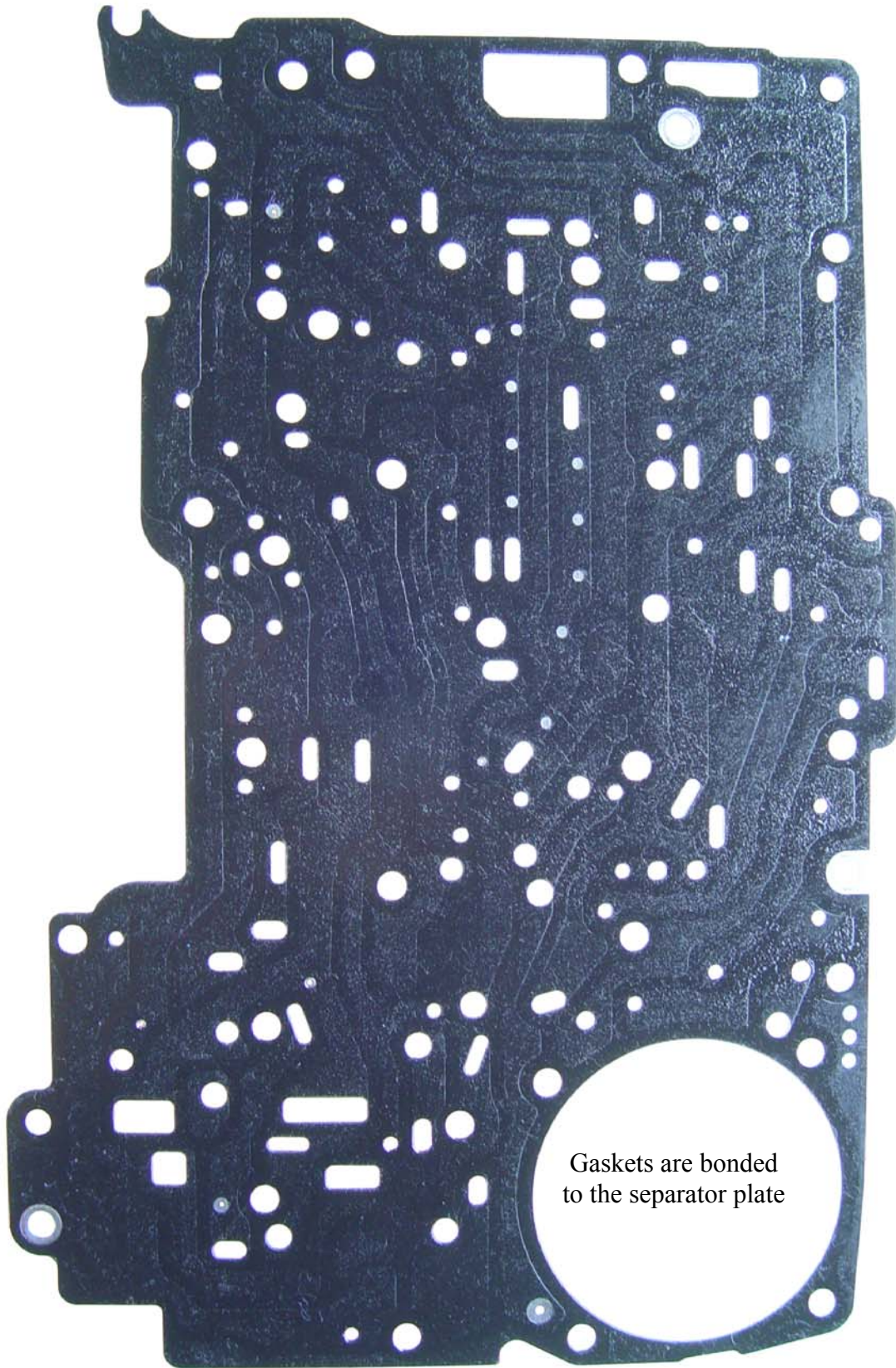




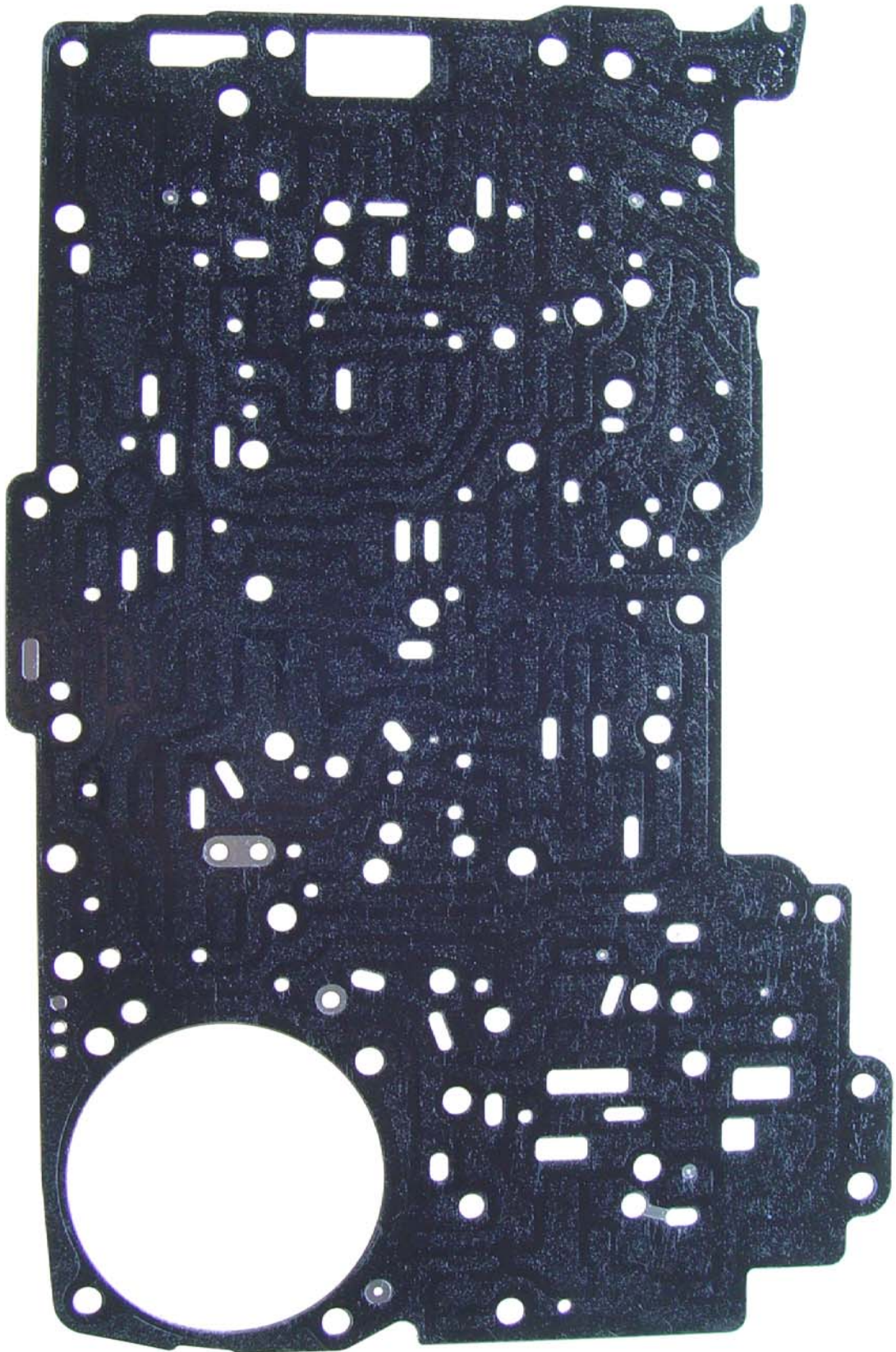
Install .250" rubber balls
at the "B" locations



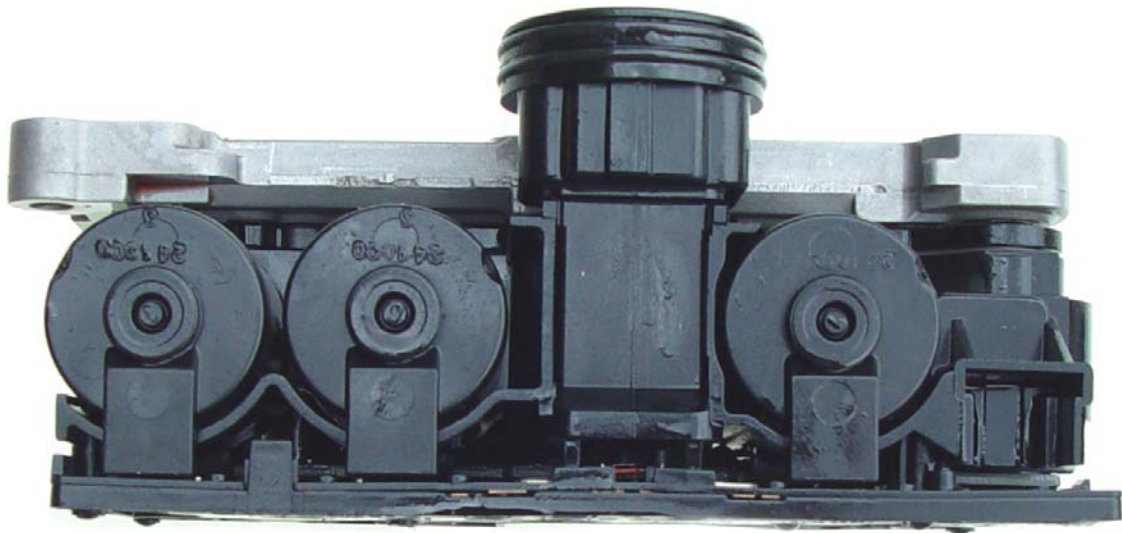
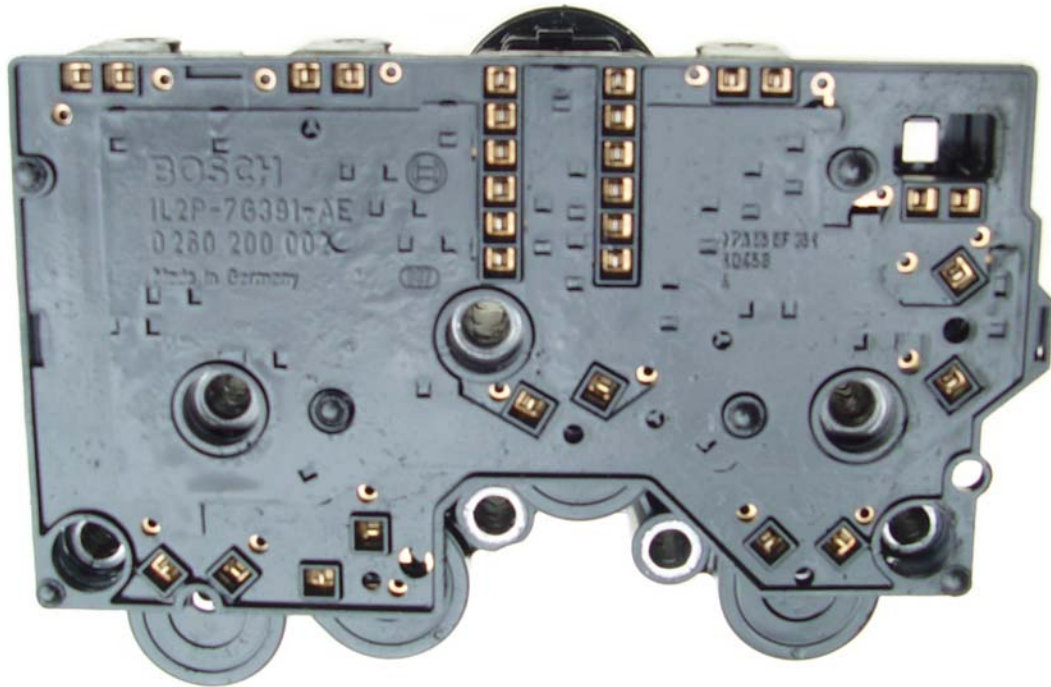
Separator Plate

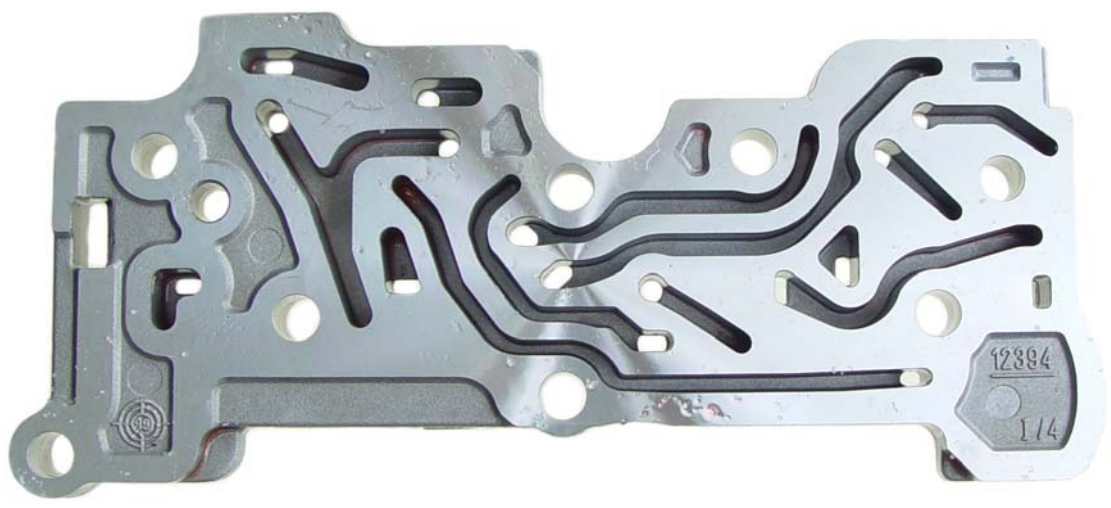
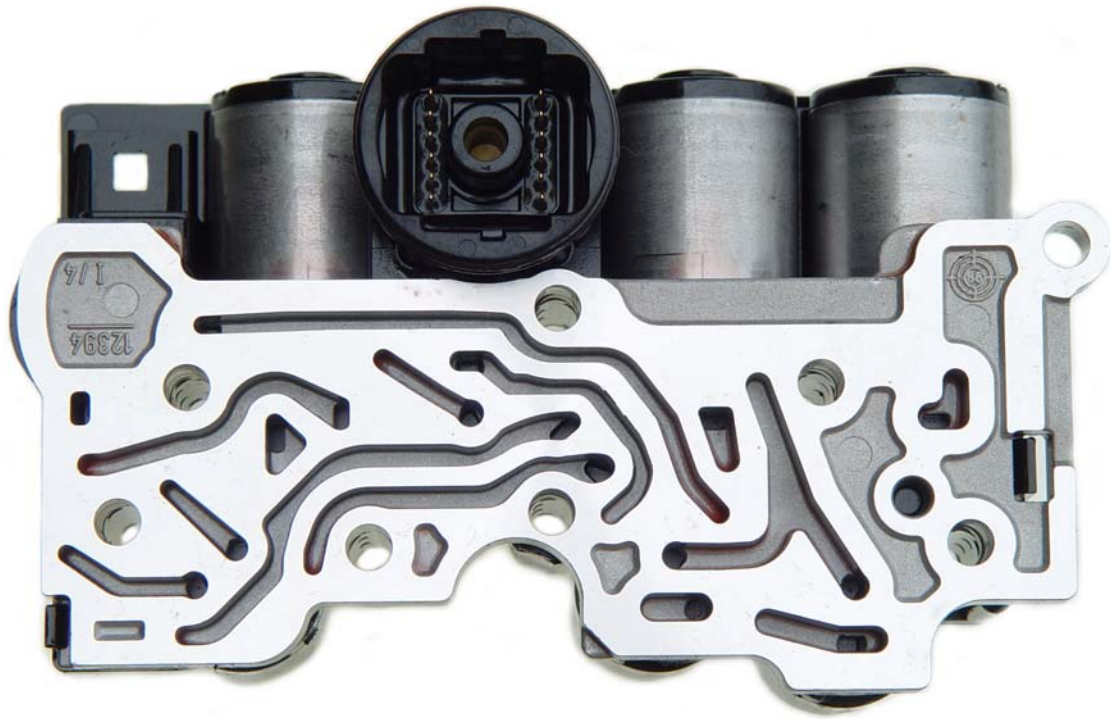


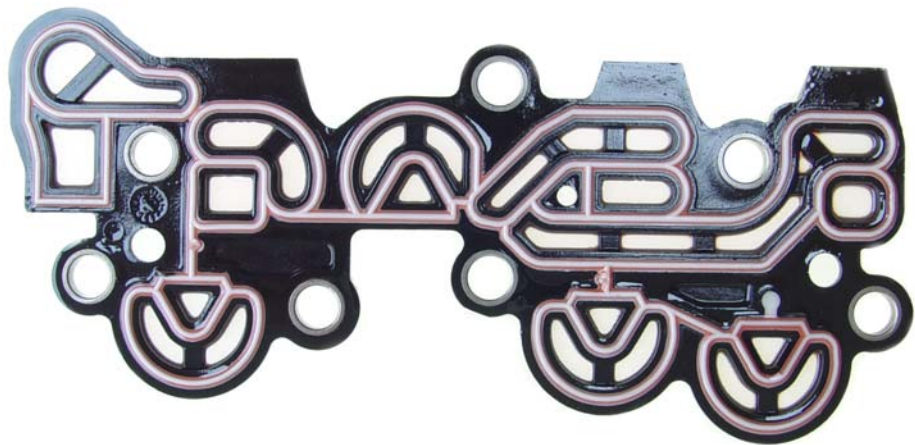
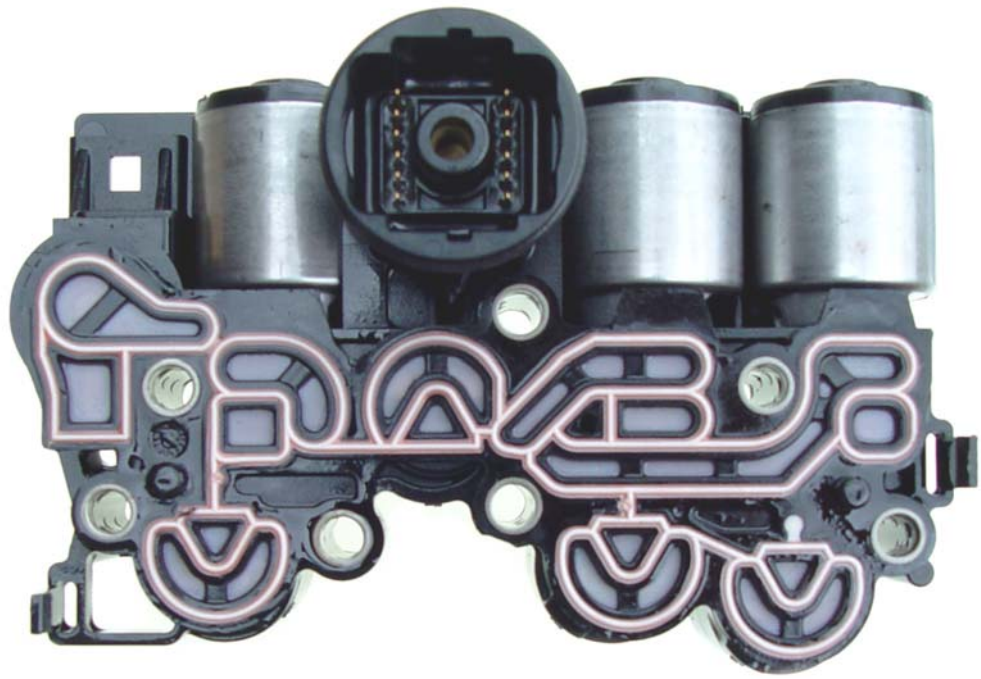
Gaskets are bonded to the separator plate



Solenoid Body



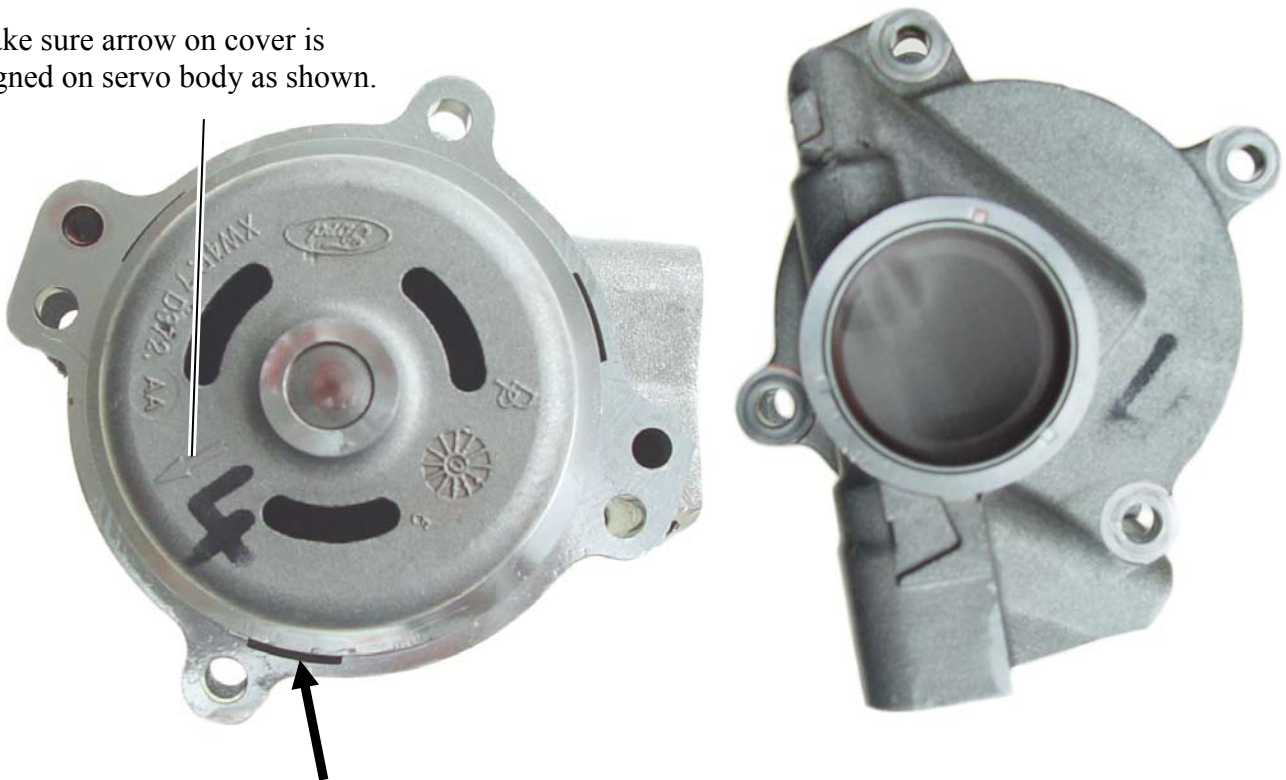




Low / Reverse Servo & Band



Make sure arrow on cover is aligned on servo body as shown.



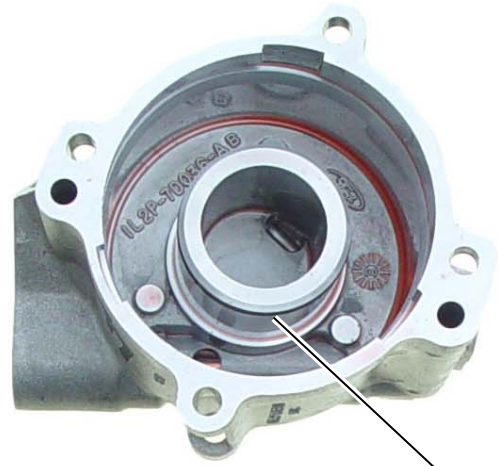
To remove cover align arrow on cover with one of the three slots.

Torque to 90 in. lb.

1.623" x .331" x .038"



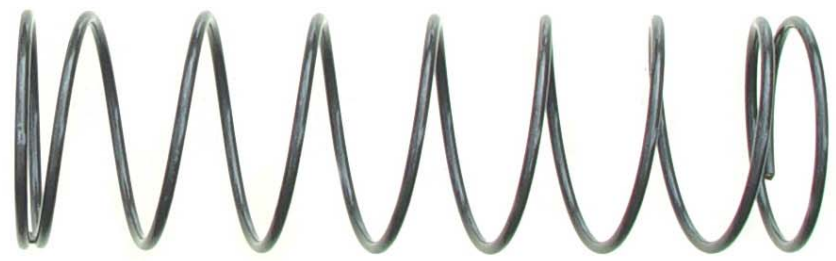
Reverse servo check valve

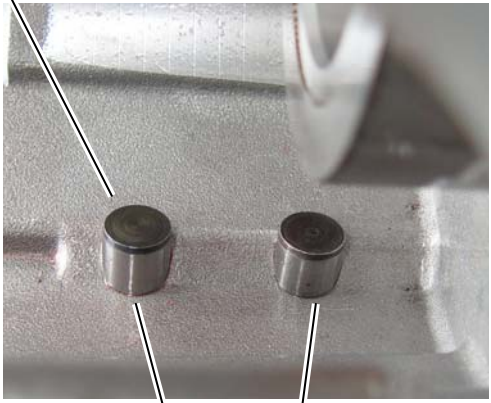
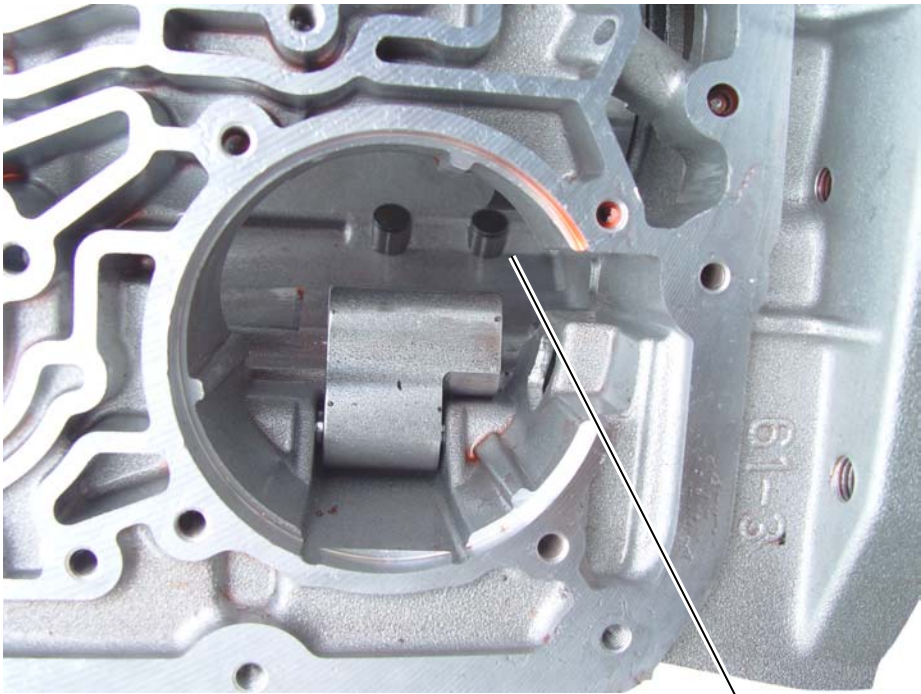


Rubber o-ring



7.650" x .2350" x .134"



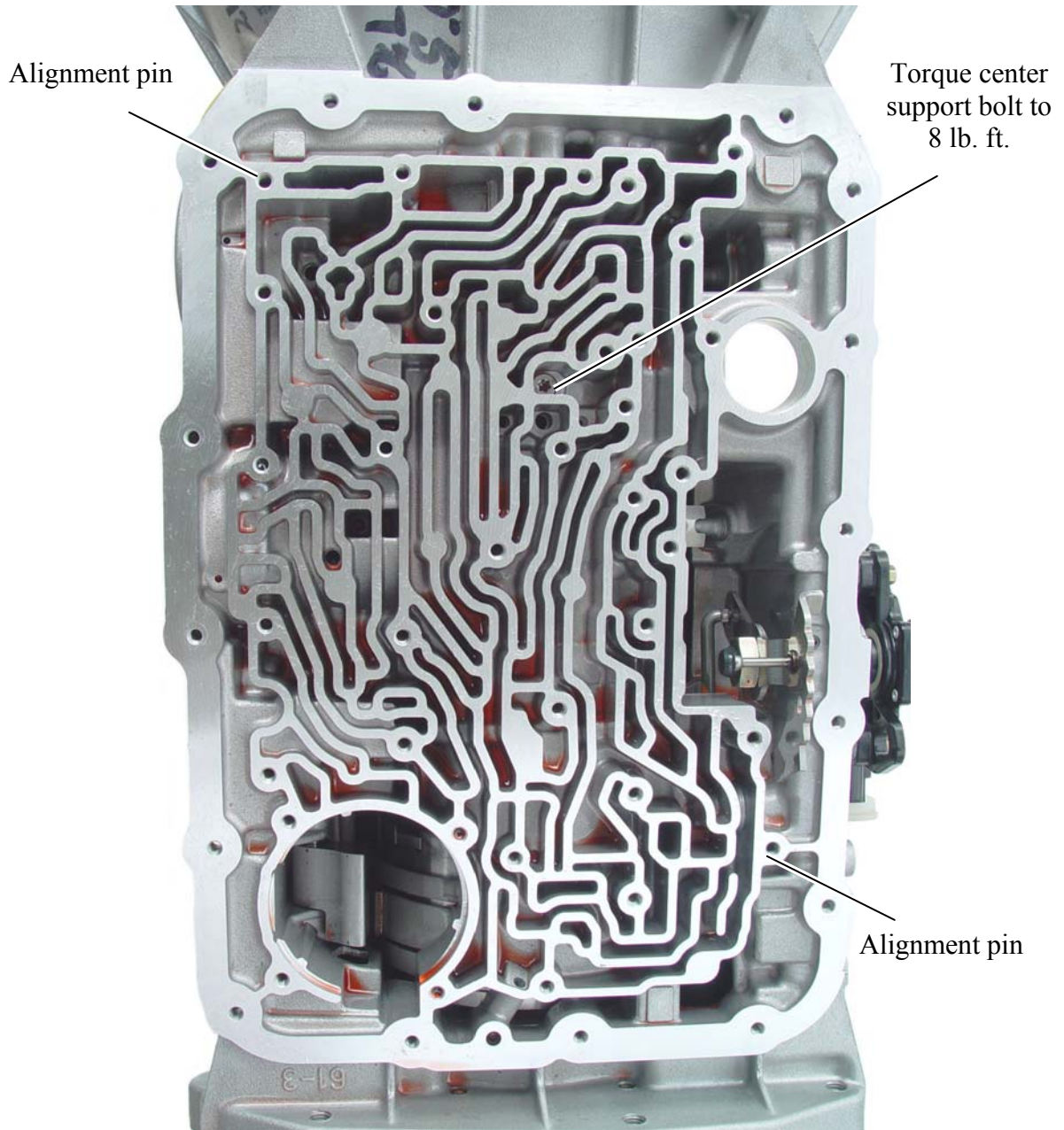


Check band anchor pins for looseness in the case.



Low & reverse band

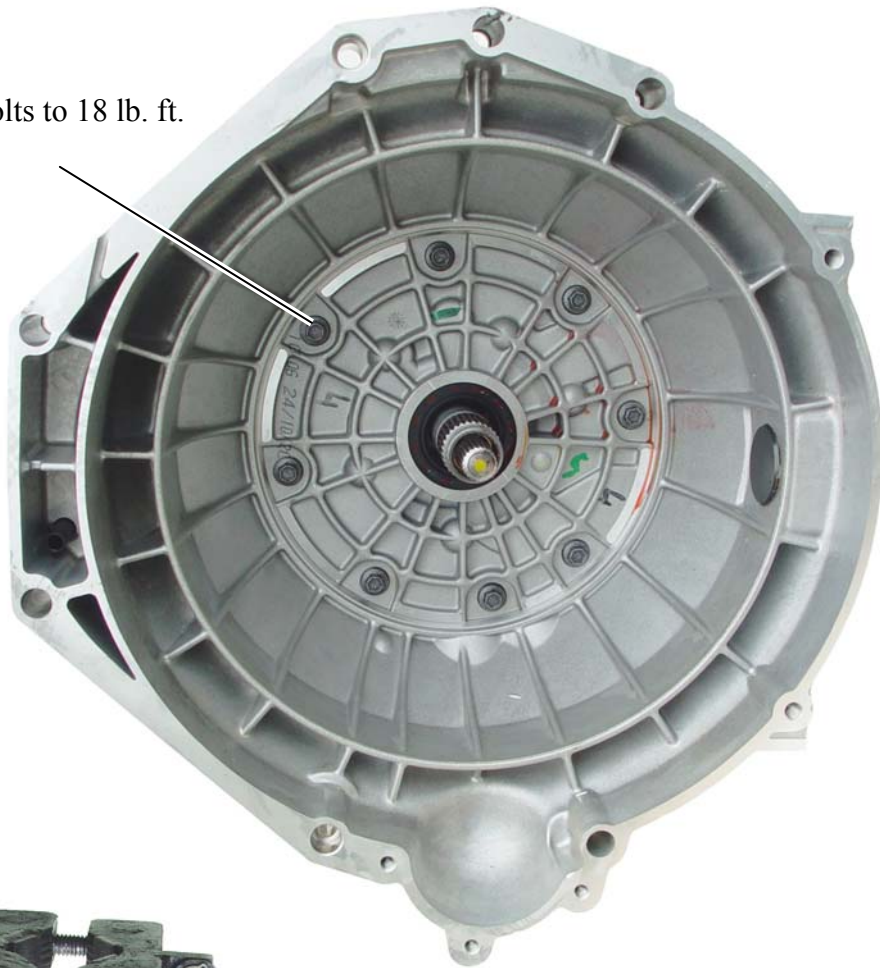
Valve Body Alignment Pins and Center Support Bolt



Use Ford alignment pins #307-334 at locations shown.

Pump Assembly

Torque pump bolts to 18 lb. ft.

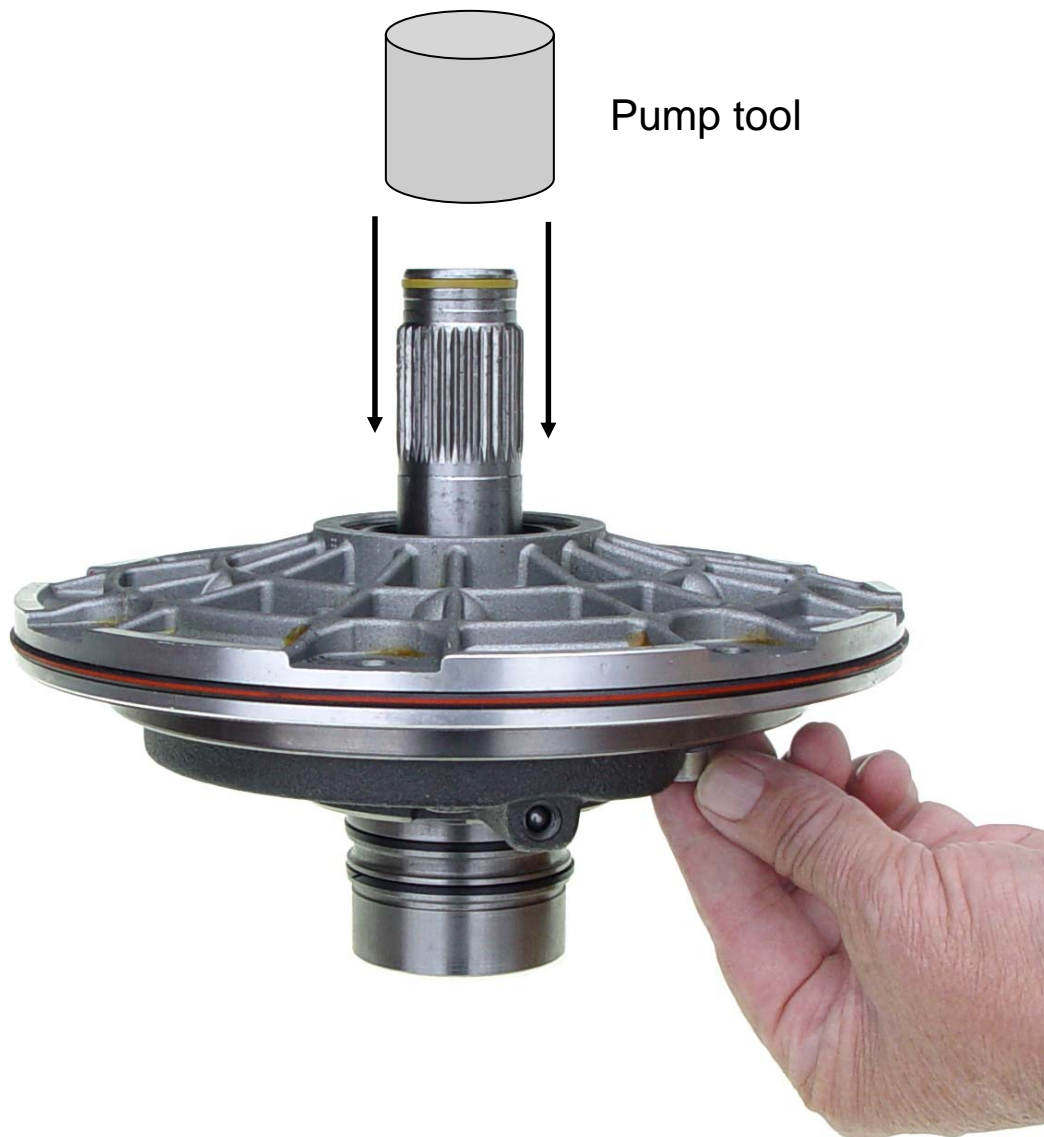


A pump puller is necessary to remove the pump.

Pump Alignment & Tool

1. Assemble & Align Pump

Start bolts, leave pump halves loose. Slide **Pump Tool** over stator spline. Push tool, while wiggling pump body making sure tool enters and snugs in the pump bushing. Tighten the pump bolts to 18 ft lbs.



Plastic selective thrust washer
available in the following sizes

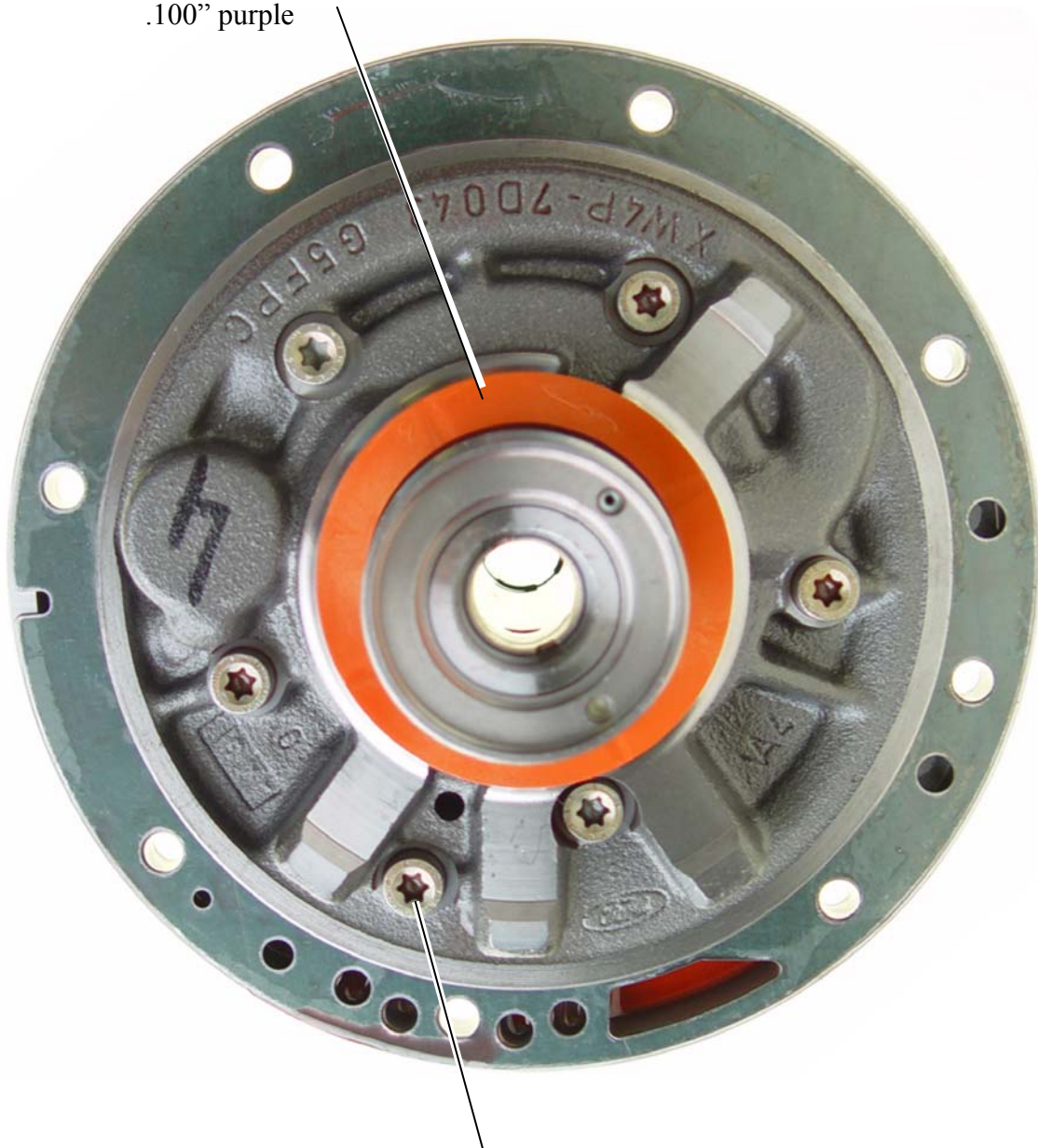
.060" brown

.070" red

.080" black

.090" orange

.100" purple

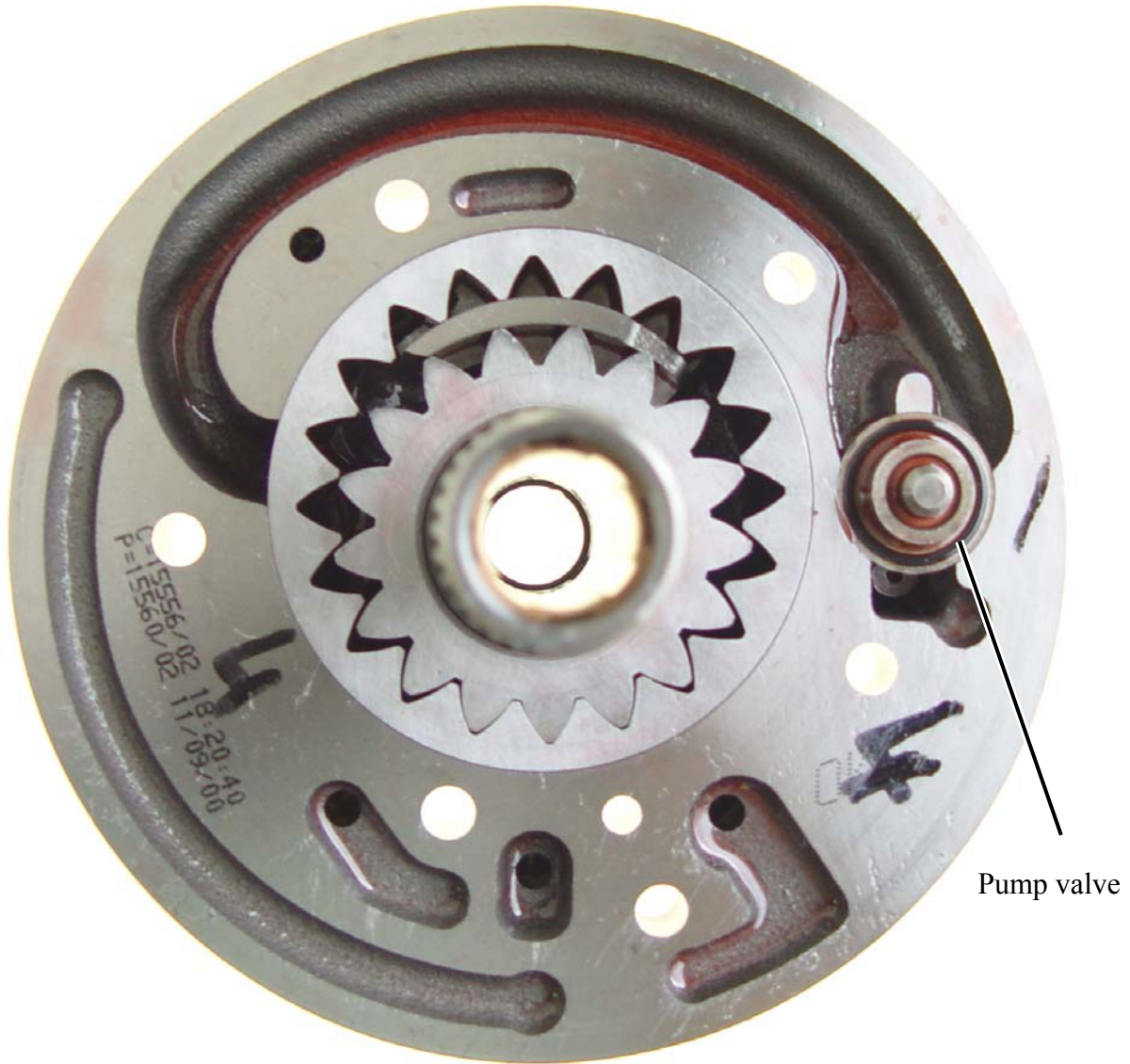


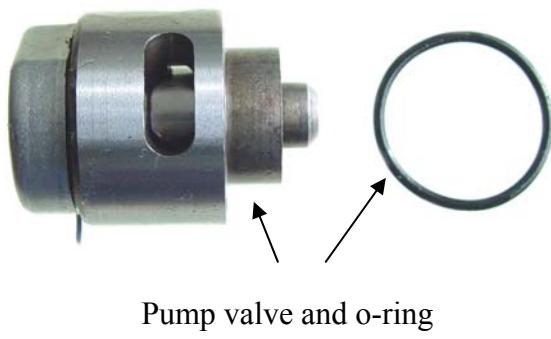
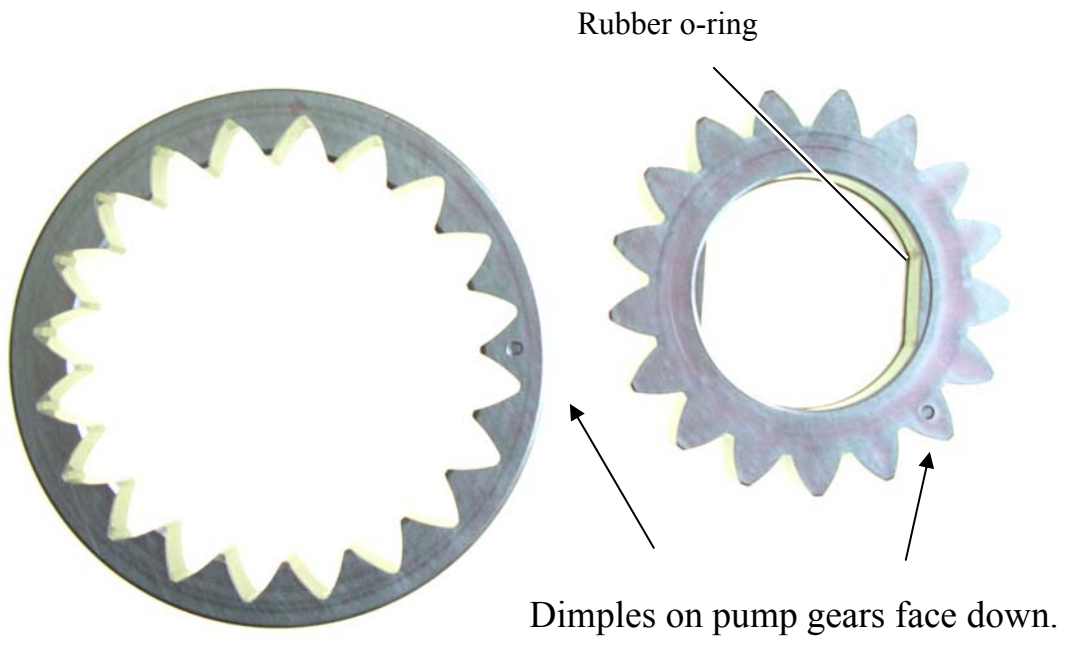
Torque bolts to 18 ft. lb.



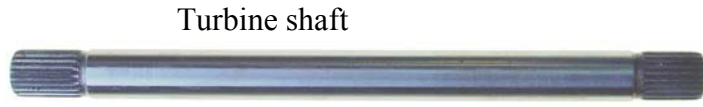
Pump wear plate should be scratch free.





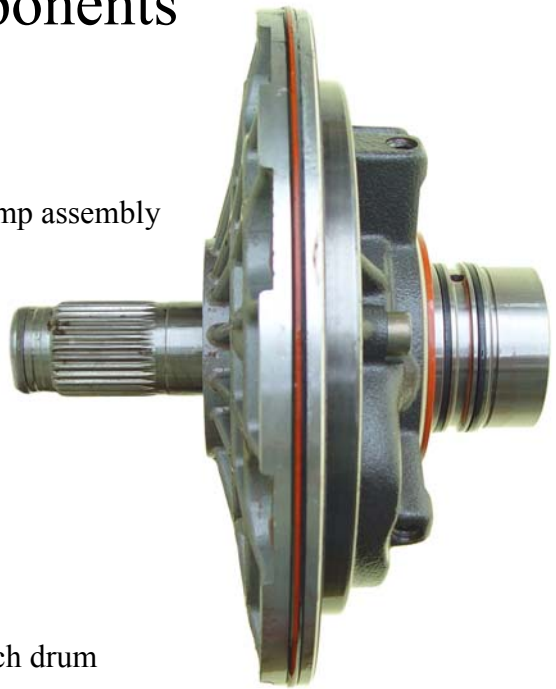


Internal Components



Turbine shaft

Pump assembly



Overdrive band

Plastic selective washer



Coast clutch drum

Overdrive sun gear spacer adapter



Overdrive sun gear



Overdrive carrier



Roller bearing

Overdrive ring gear





Tapered side
faces up

Center support

Roller bearing inner
lip faces up

Intermediate band

Intermediate
brake drum

Selective roller bearing
No notch .110"
One notch .116"
Two notch .124"
Three notch .132"
Inner lip faces down

Forward drum

Roller bear-
ing inner lip
faces down

Roller bearing inner
lip faces up

Washer

Forward planetary ring gear



Roller bearing inner lip faces down



Forward planetary

Sun gear shell



Sun gear spacer



Roller bearing inner lip faces up



Low and reverse planetary carrier



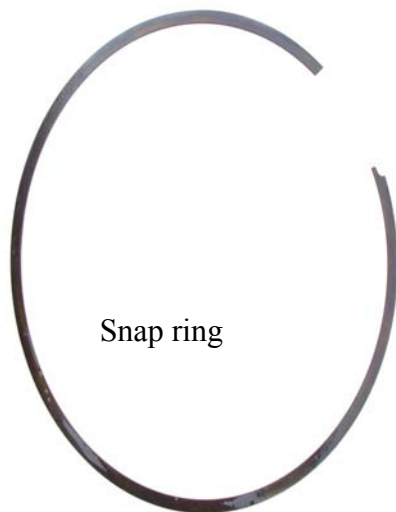
Plastic spacer



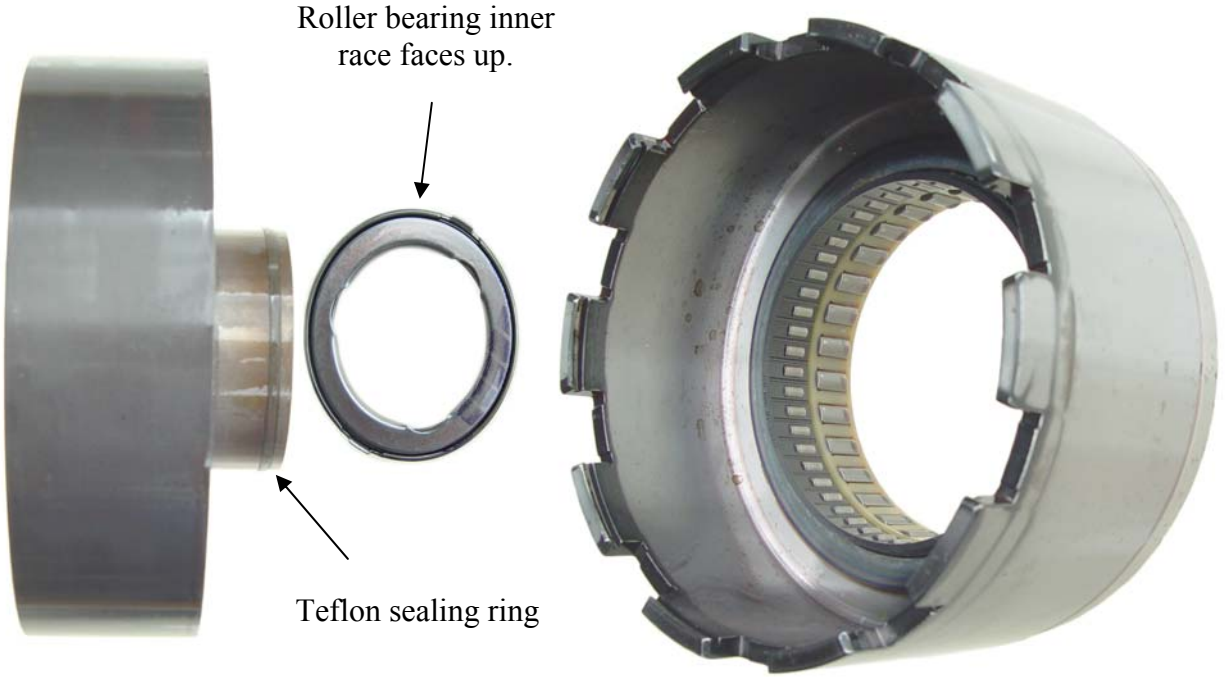
Snap ring



Roller bearing inner lip faces up



Snap ring

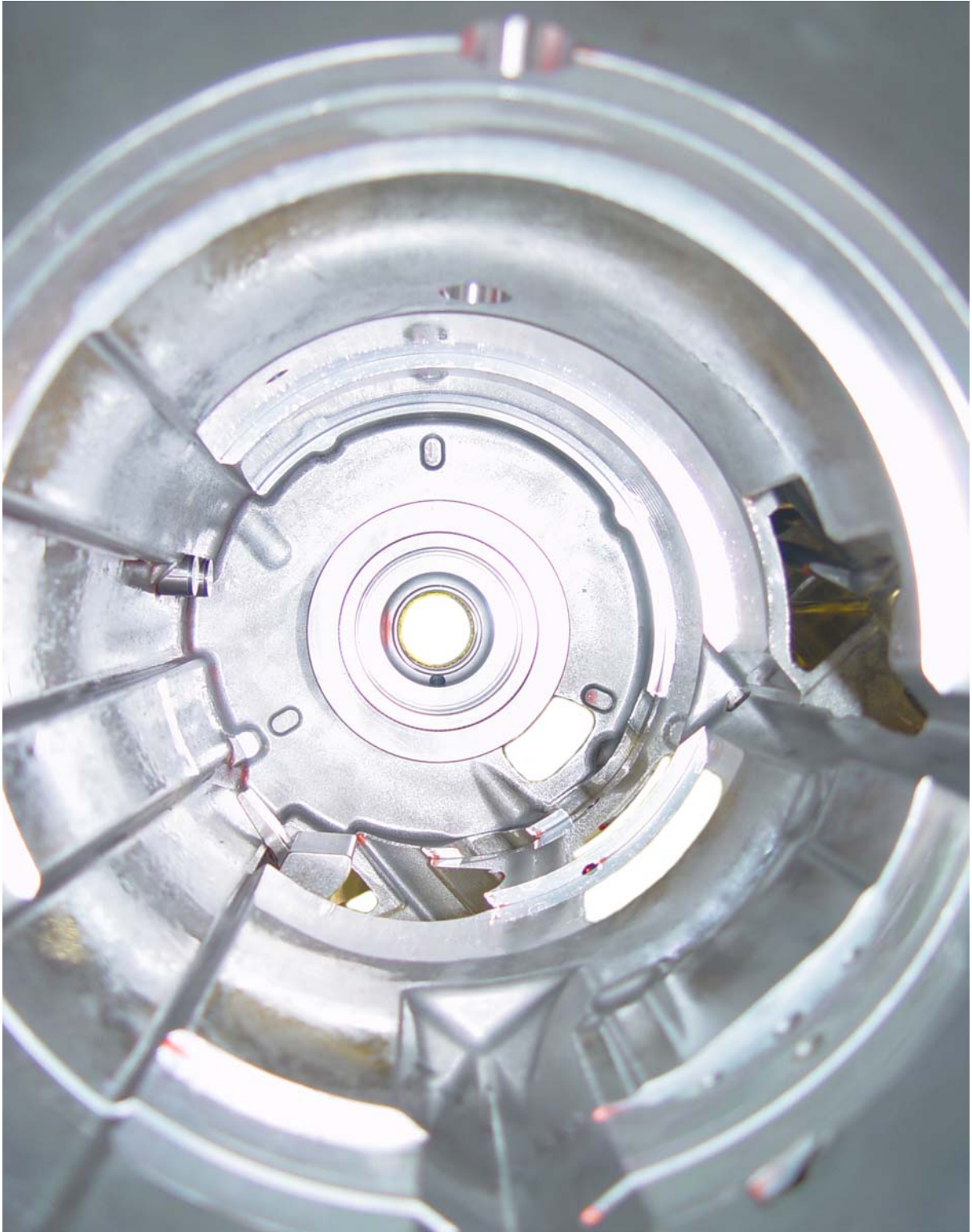


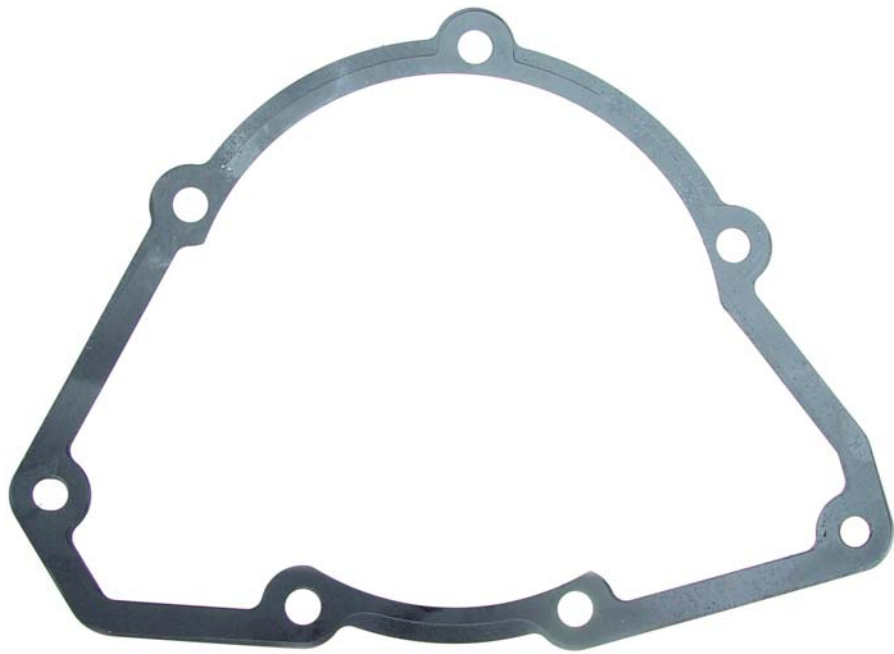
Output shaft ring gear

Low and reverse brake drum.



Low and reverse band







Thrust washer



Park gear

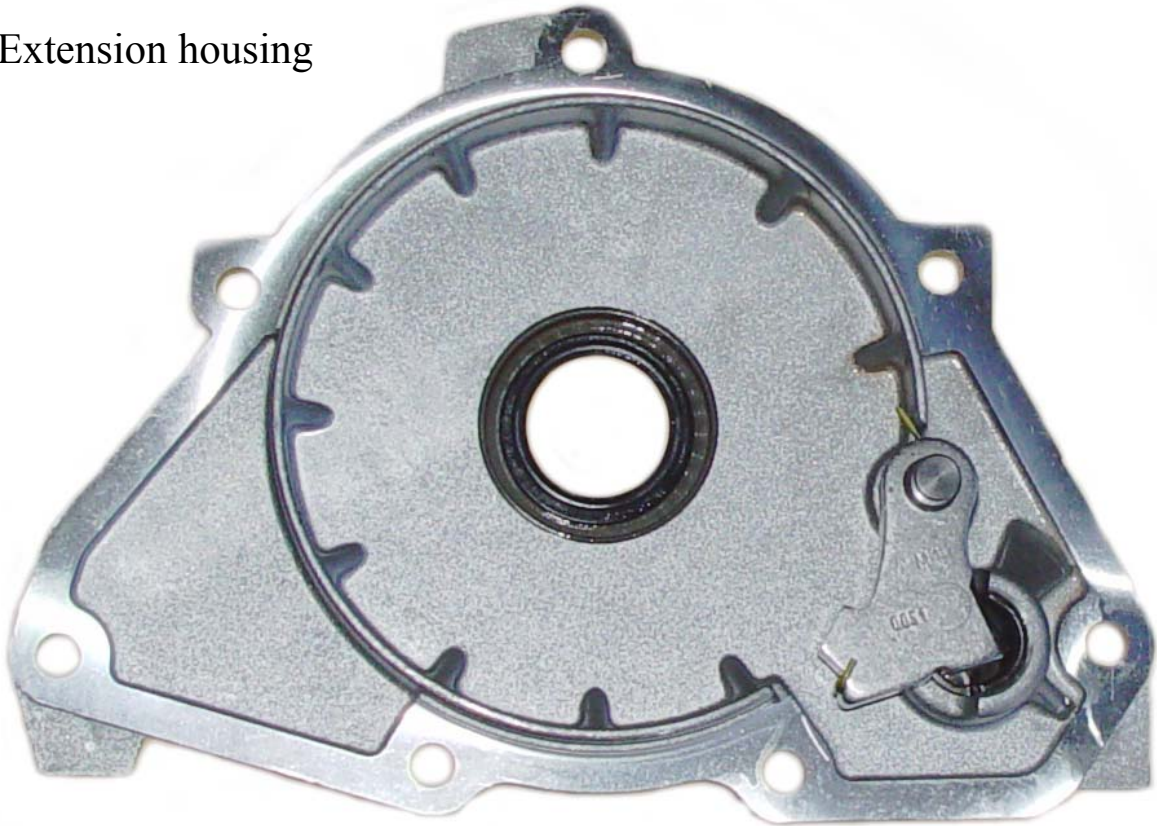


Output shaft

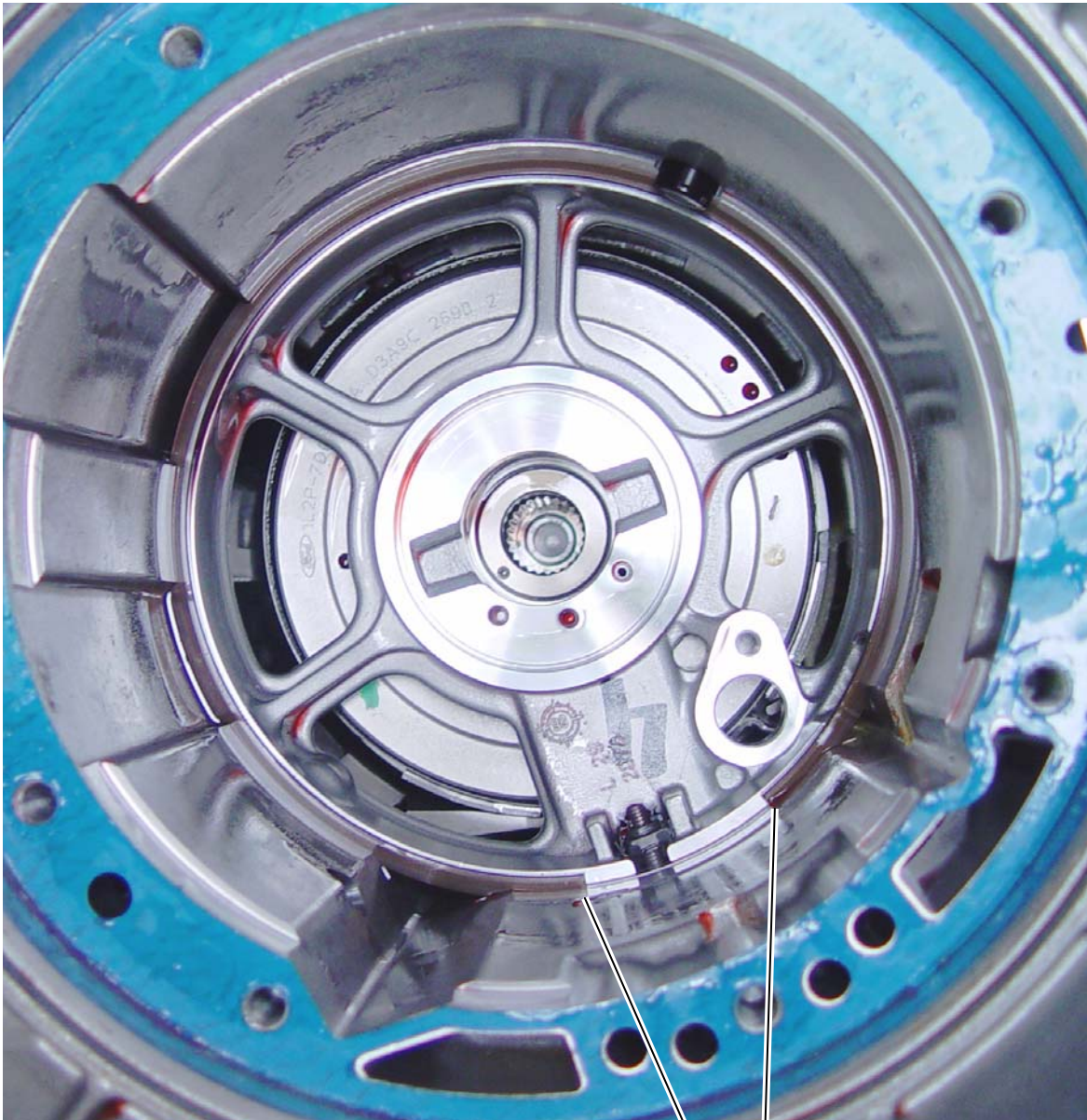


Parking pawl assembly

Extension housing



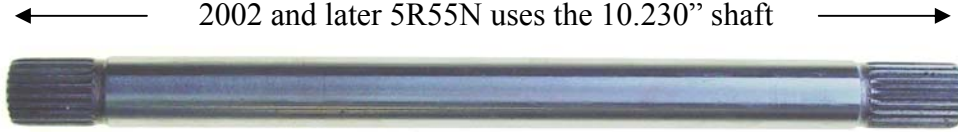
Center Support Snap Ring



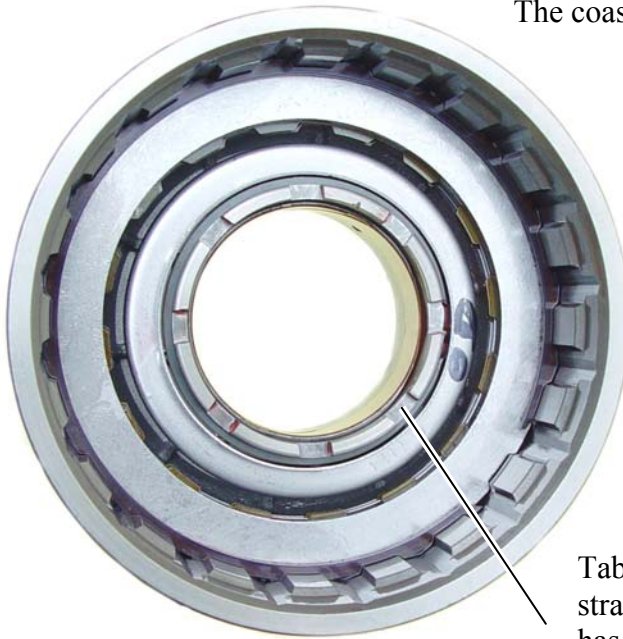
Snap ring openings are positioned as shown.
Tapered side of the snap ring faces up.
Snap ring is .141 thick.

Internal parts differences in the 5R55N, W&S series

Turbine shafts are 10.230" in the 5R55W/S models.
The 5R55N use a 10.030" length shaft from 1999-2001.
2002 and later 5R55N uses the 10.230" shaft

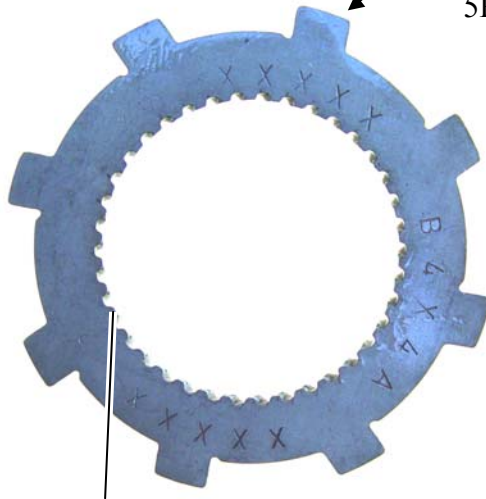


The coast clutch drum

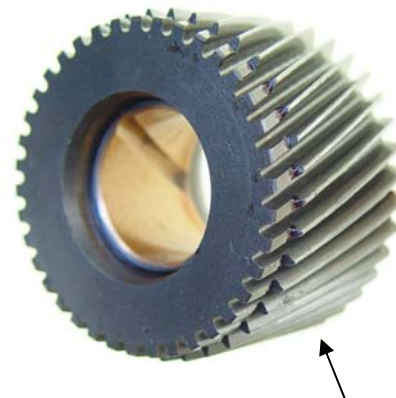


The 5R55N is used in the Lincoln LS and in the Jaguar. The 5R55W/S models are used in the Explorer and Mountaineer.

Tabs on the sun gear spacer are straight on the 1999-2001 5R55N and has straight slots on the drum. 2002 up 5R55N uses angled slots on the drum and the spacer like the 5R55W/S models.

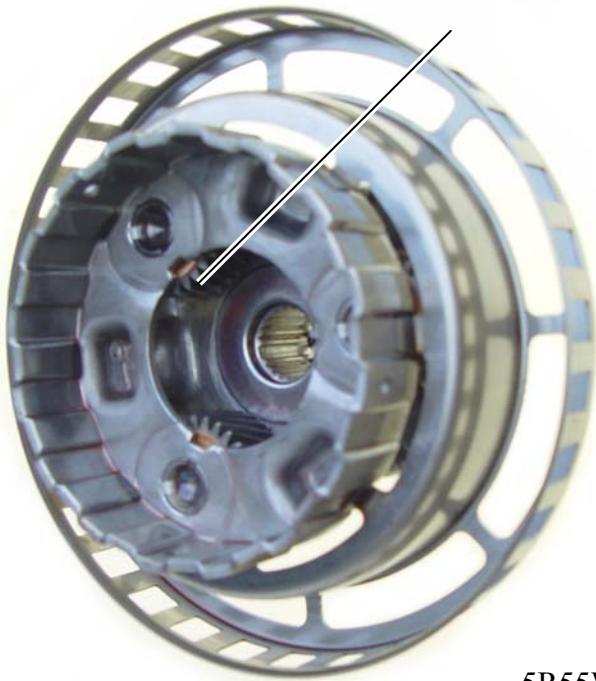


5R55W/S sun gear spacer is shown actual size.
5R55N has a small inside diameter and only has 24 teeth.



5R55W/S sun gear has 38 teeth.
5R55N has 24 teeth.

5R55W/S overdrive carrier has 28 tooth pinion gears.
5R55N has 25 tooth pinion gears.



5R55W/S ring gear has 94 teeth.
5R55N has 72 teeth.



The retaining snap ring is also different.

5R55W/S measures
.050 thickness
.194 on wall thickness

5R55N measures
.060 thickness
.155 on wall thickness

Forward clutch drum & piston



5R55W/S uses a stamped steel piston and spring retainer.

The 5R55N uses an aluminum piston and has a spacer ring 1999-01.

2002 and later is the same as 5R55W/S



5R55W/S forward ring gear uses 101 teeth.
The 5R55N has 85 teeth from 1999-01 and then in 2002 and later is the same as 5R55W/S models.



5R55W/S forward planetary is also different having 23 tooth pinion gears.
The 5R55N uses 19 tooth gears until 2002 and then is the same as 5R55W/S models.

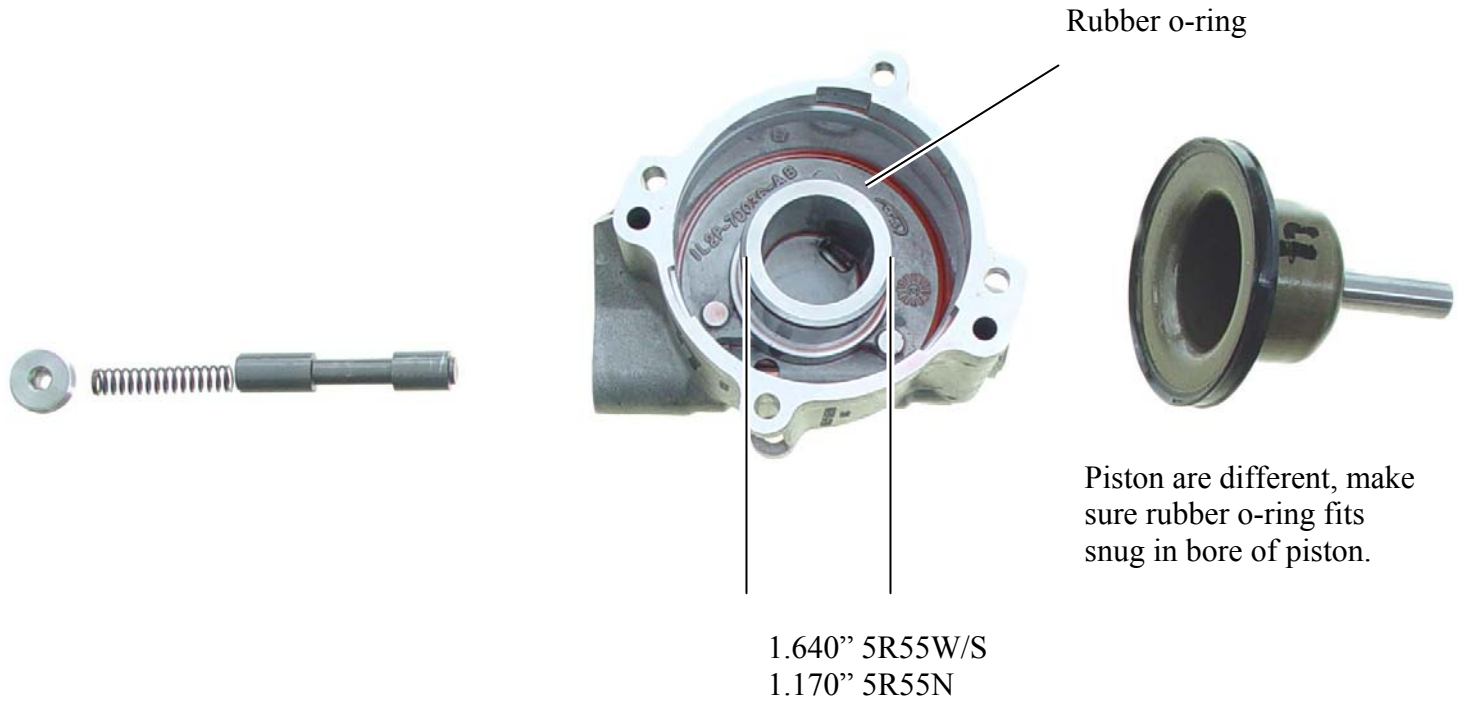


5R55W/S sun gear has 55 teeth and no roller bearing in bore.
The 5R55N has 47 teeth with a roller bearing in the bore until 1999 and then is the same as the 5R55W/S



Uses wide spacer.
5R55N uses a sprag assembly.

Reverse servo housing, piston and valve are different see dimensions below.



Servo Assemblies and Band Adjustment

Servo pins wear the case bore causing a slip in 2nd, 3rd and 5th gear.
The case usually needs repair by 70,000 miles.

Repair kit is available
from servobore.com
Or call 715-458-2617
FAX 715-458-2611

Overdrive servo
Works 2nd and 5th gears.

Intermediate servo
Works 3rd gear.





1.627" x .727" x .088"

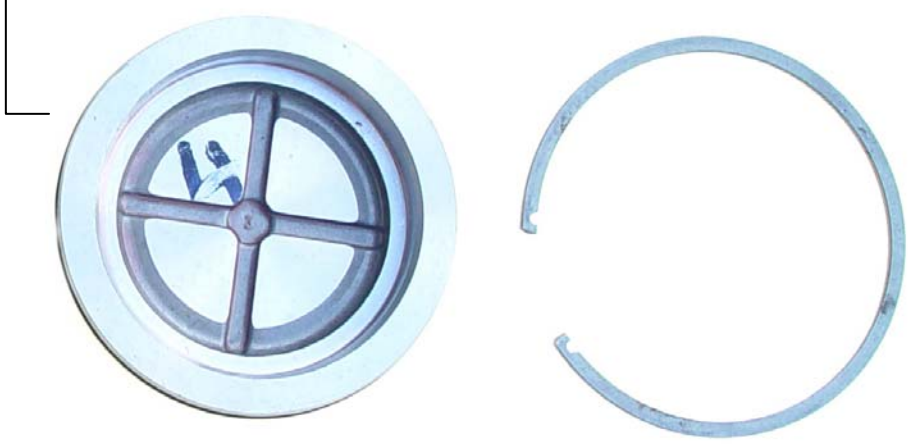


Overdrive servo

1.627" x .727" x .088"

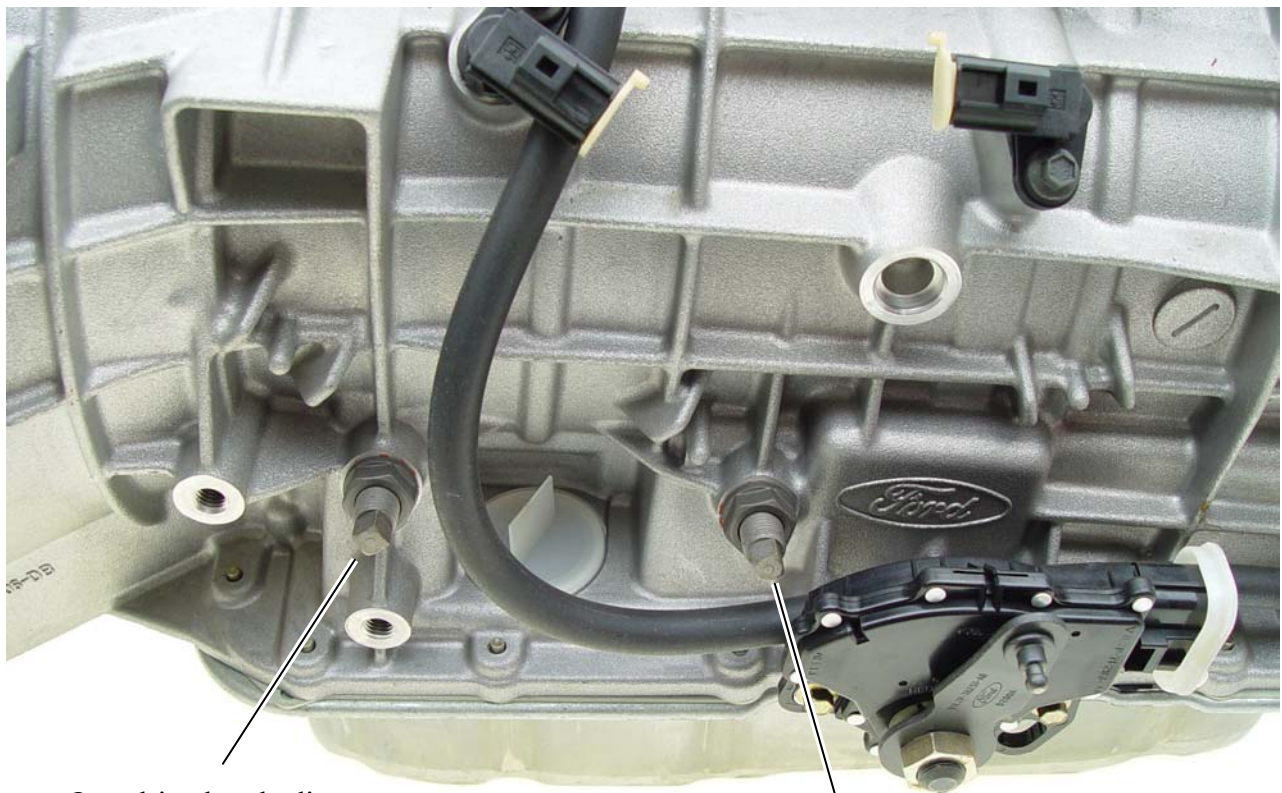


Intermediate servo





Servo strut must face as shown.

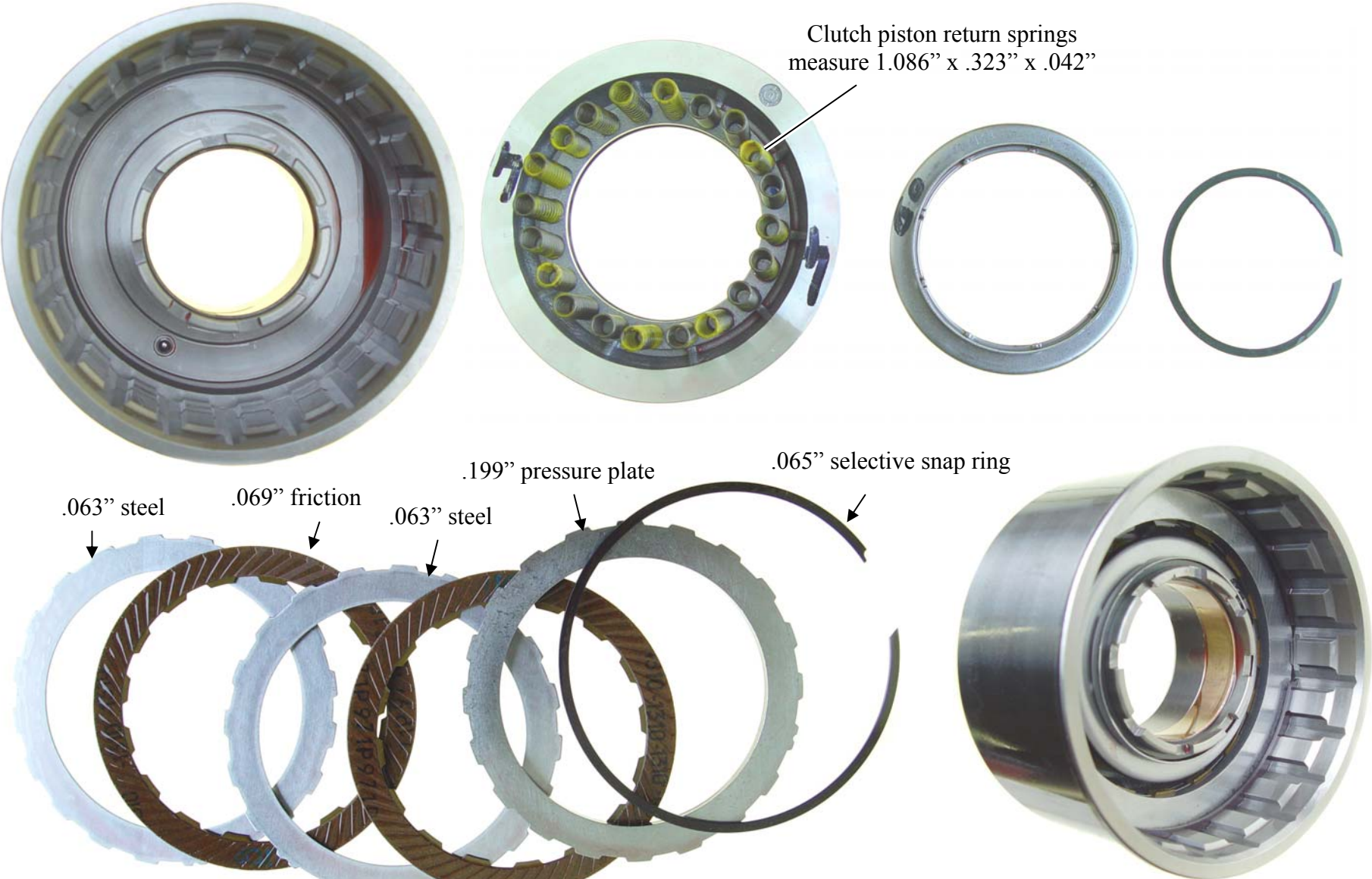


Overdrive band adjustment
Tighten band adjusting screw to
120 in. lb. then back off two turns.
Then tighten lock nut to 40 ft. lb.

Intermediate band adjustment
Tighten band adjusting screw to
120 in. lb. then back off two turns.
Then tighten lock nut to 40 ft. lb.

Coast Clutch

Clutch piston return springs
measure 1.086" x .323" x .042"



.063" steel

.069" friction

.063" steel

.199" pressure plate

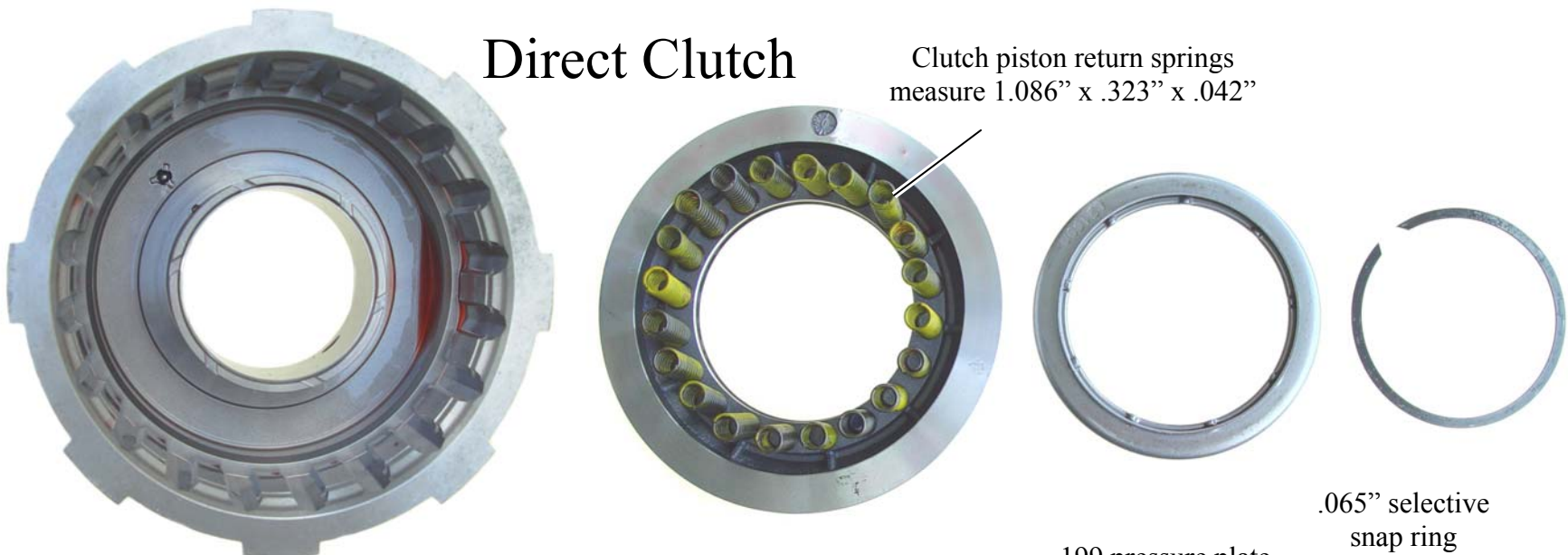
.065" selective snap ring

Notice direction of grooves on friction plates.

Clutch pack clearance should be .055"-.075".

Direct Clutch

Clutch piston return springs
measure 1.086" x .323" x .042"

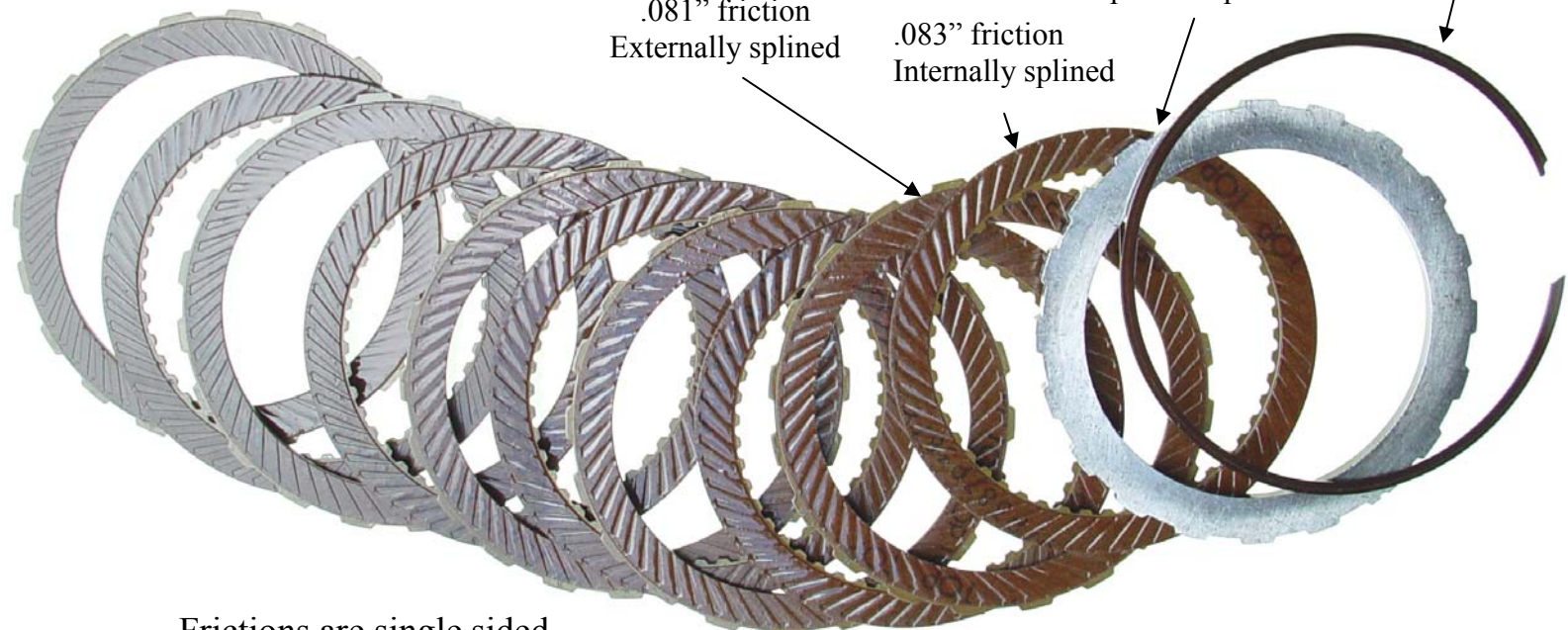


.081" friction
Externally splined

.083" friction
Internally splined

.199 pressure plate

.065" selective
snap ring



Frictions are single sided.
Be sure to alternate internally splined and
externally splined clutches as shown.

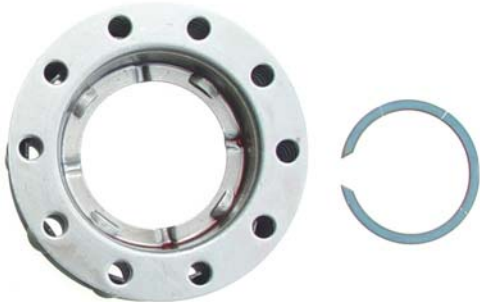


Clutch pack clearance should be .055"-.065".



The back side of frictions operate as a steel plate.

Forward Clutch

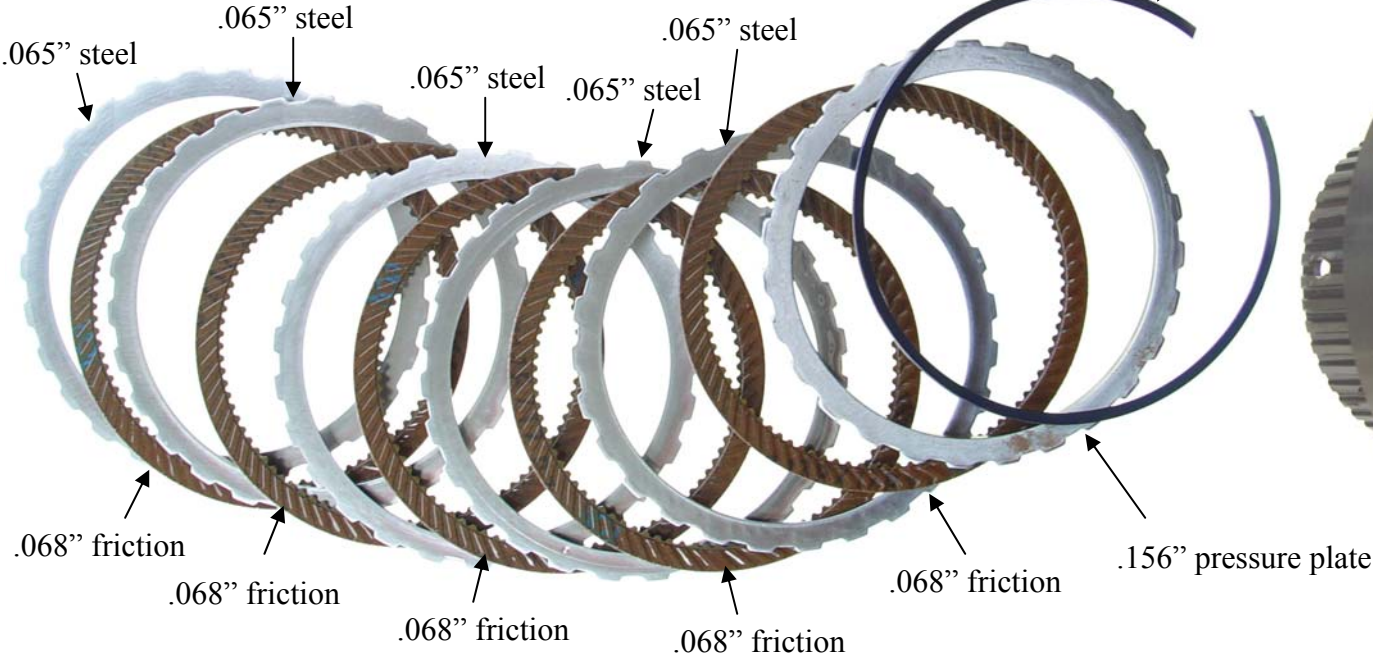


.080" selective snap ring

Clutch clearance should be .055"-.080"

Grooves in friction should face as shown.

55



Clutch Pack Selective Snap Rings

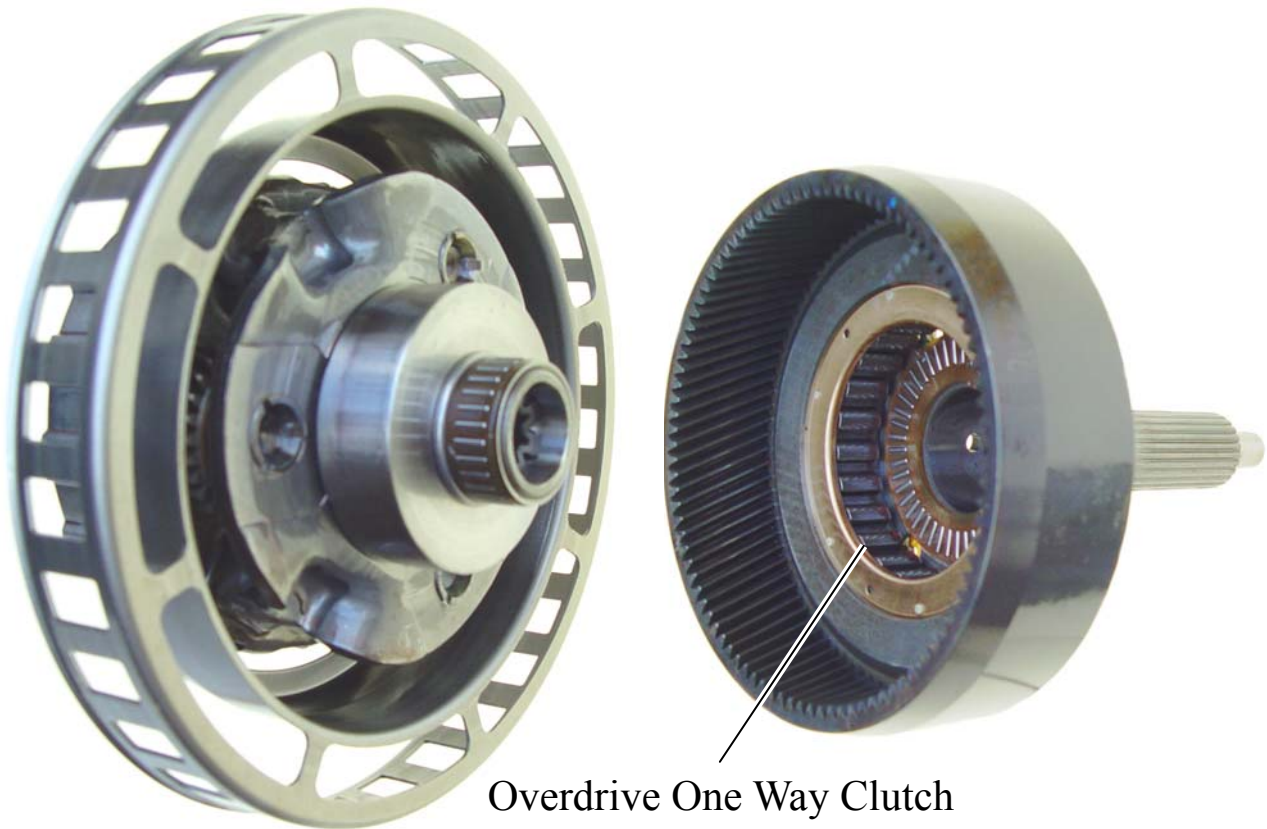
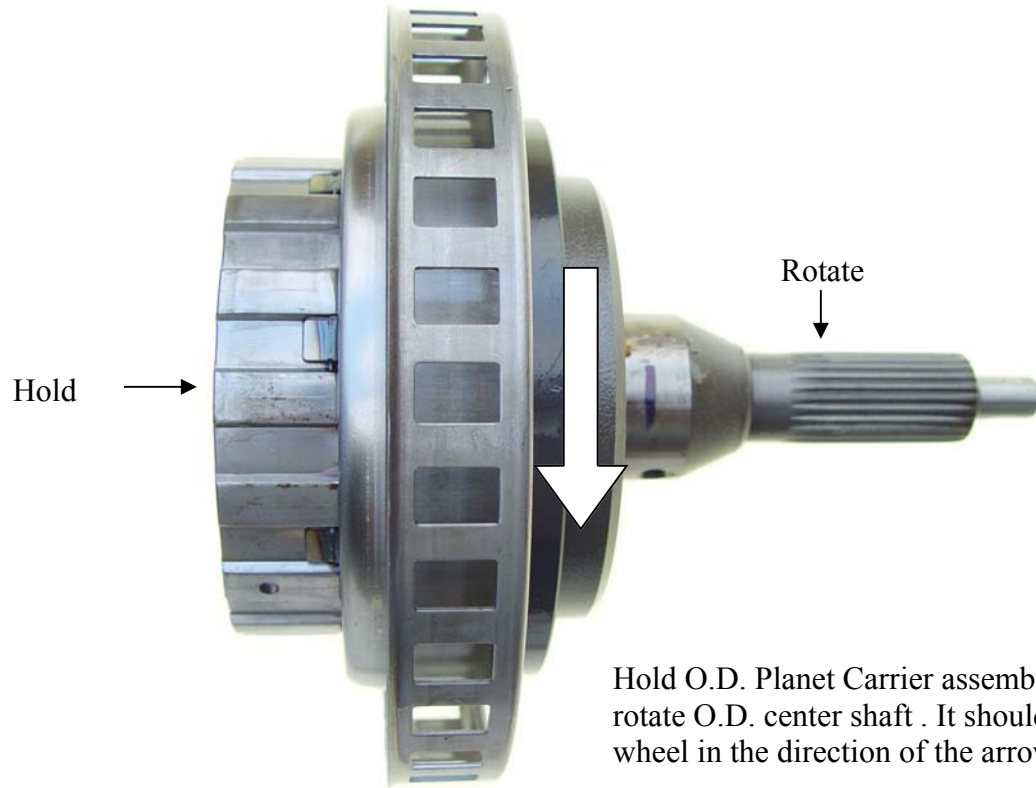
Coast Clutch and Direct Clutch Selective Snap Ring Chart

Thickness	Part #
.054"	E8601126-S
.068"	E8601127-S
.082"	E8601128-S
.096"	E8601129-S

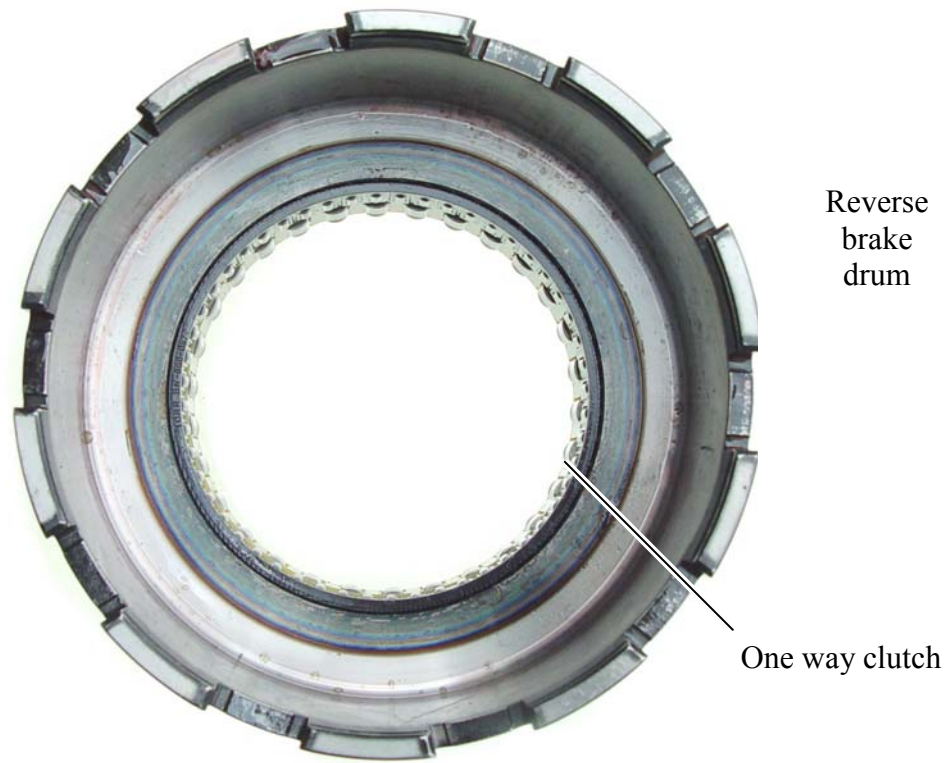
Forward Clutch Selective Snap Ring Chart

Thickness	Part#
.068"	XW4Z-7D483-AB
.082"	XW4Z-7D483-AC
.096"	XW4Z-7D483-AD

Overdrive One Way Clutch Rotation



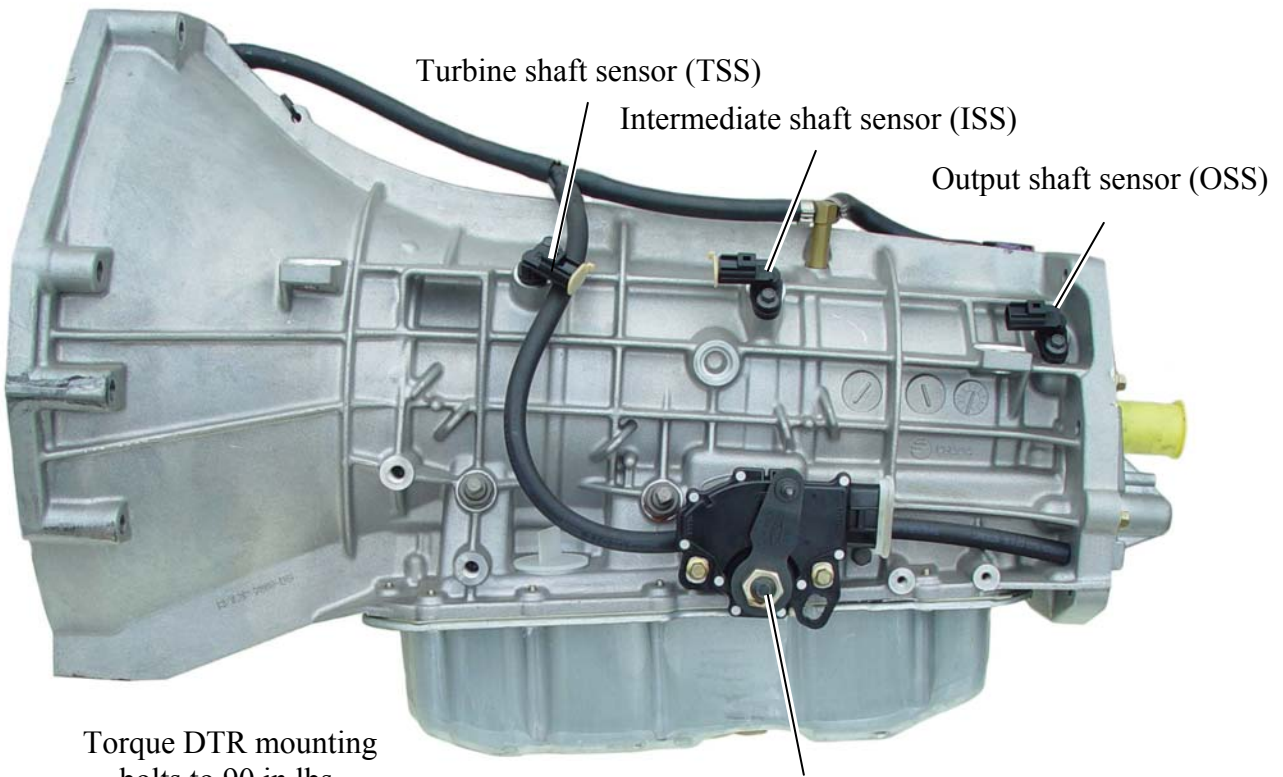
Low/Reverse One Way Clutch



Low/Reverse brake drum should rotate clockwise when installed in the case as shown.

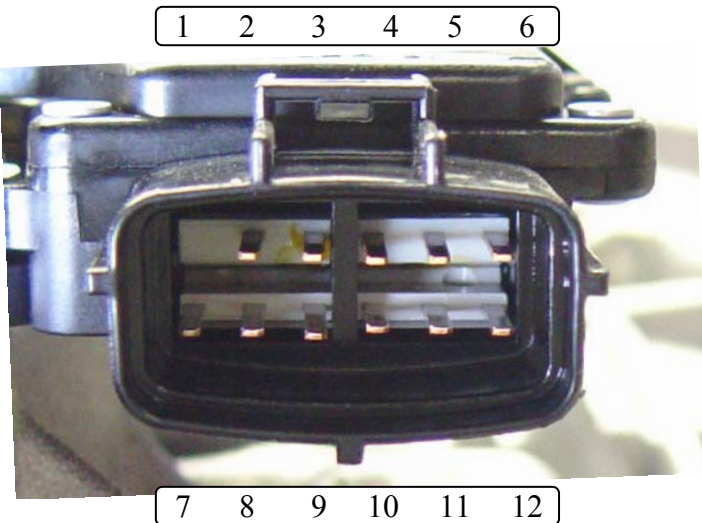


Digital Transmission Range (DTR) Sensor and Speed Sensors



Torque DTR mounting bolts to 90 in lbs.
Torque manual lever nut to 35 ft. lbs.

Digital Transmission Range (DTR) Sensor



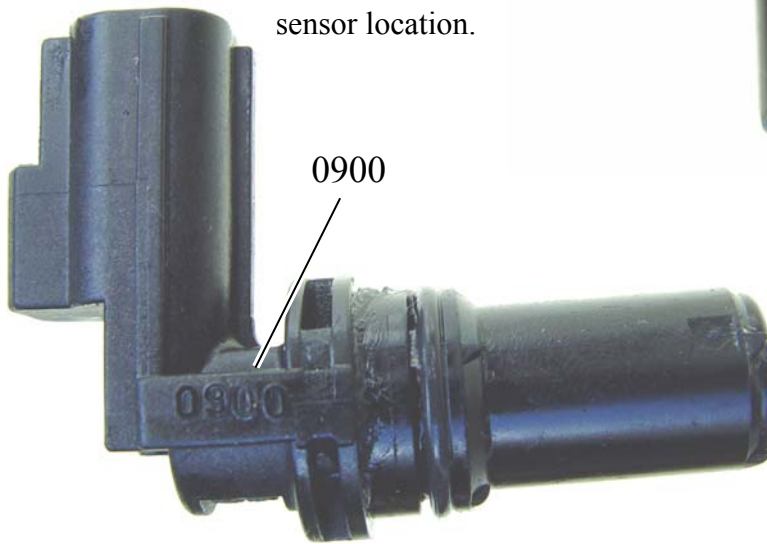
Pin Number	Function
1	Not used
2	Signal Return
3	TR3A
4	TR1
5	TR2
6	TR4
7	Ground
8	Neutral
9	Power Feed
10	Starter Control
11	Back-up
12	Starter to Interrupt relay

All of the sensors are marked
XW4P 7H
103AA
at this location.

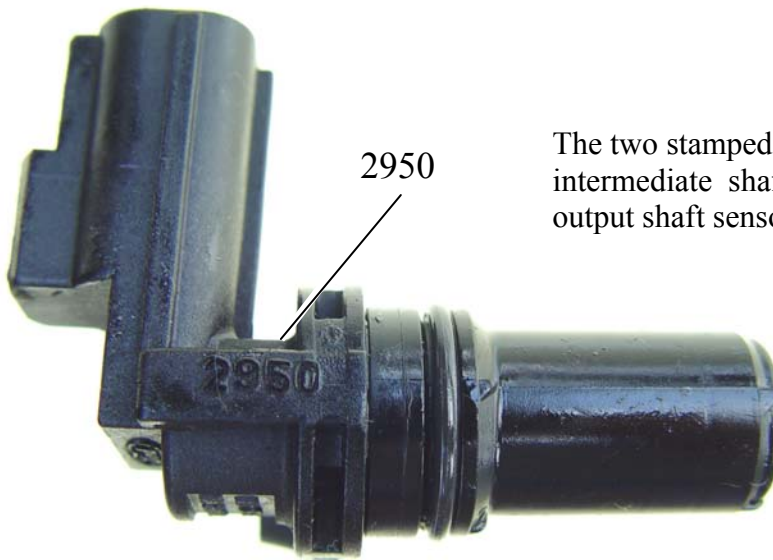


Torque sensor bolts to 90 in. lbs.

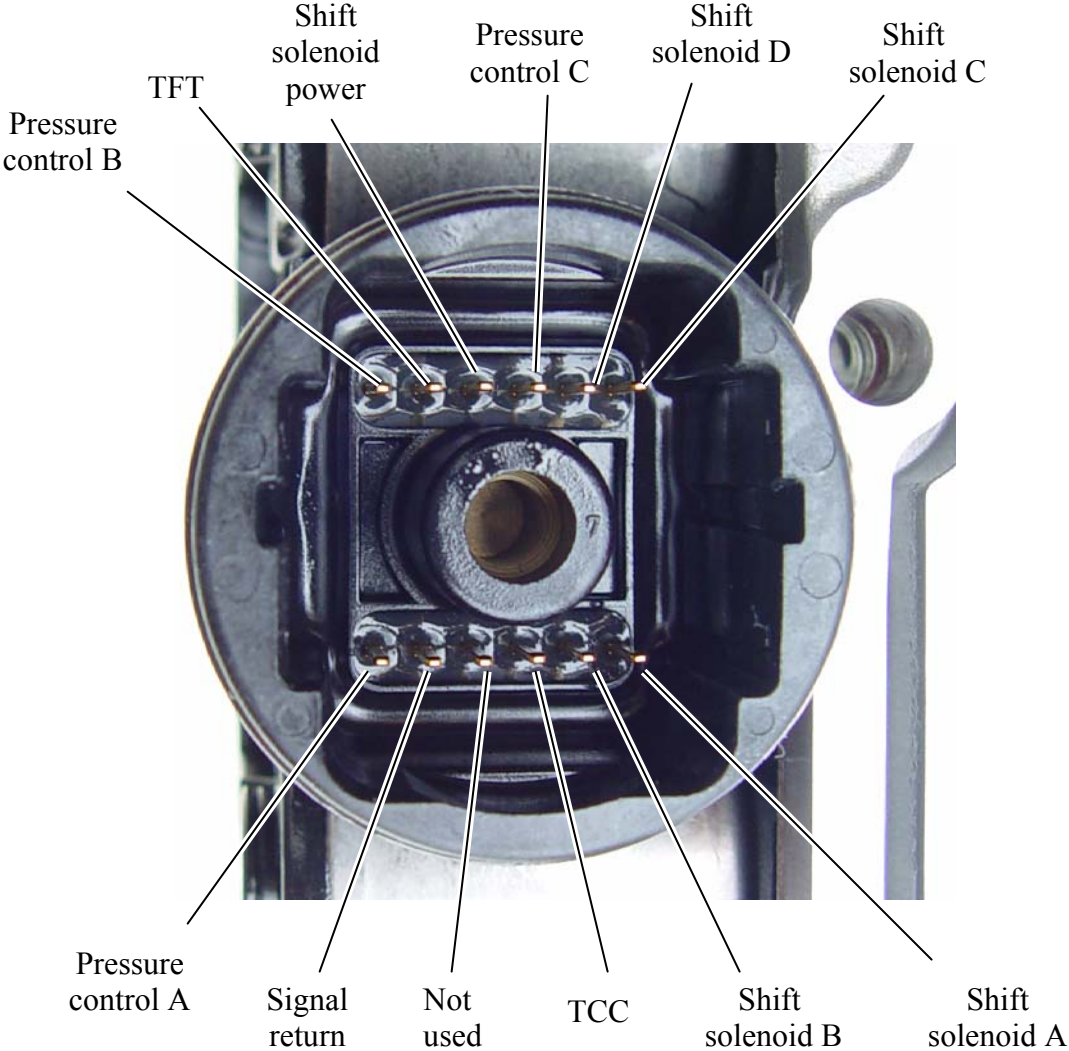
The one stamped 0900
installs at the turbine shaft
sensor location.



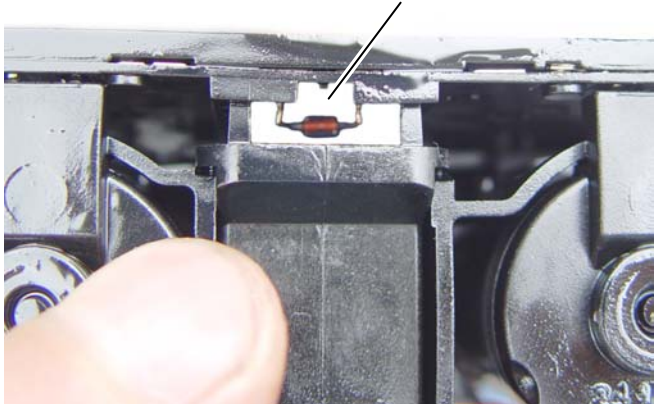
The two stamped 2950 install at the
intermediate shaft sensor and the
output shaft sensor locations.



Case Connector



TFT transmission fluid temperature sensor.



Gear Ratios & Clutch, Band Application Chart

5R55S Gear Ratios

1st	3.22
2nd	2.29
3rd	1,55
4th	1.00
5th	0.71
Rev.	3.07

5R55W Gear Ratios

1st	3.22
2nd	2.41
3rd	1,55
4th	1.00
5th	0.75
Rev.	3.07

Band & Clutch Application Chart

Gear	Applied Band or Clutch
1st	Forward Clutch & low One way “Low Sprag”
2nd	*, Forward Clutch & Overdrive Band
3rd	*, Forward Clutch & Intermediate Band
4th	*, Forward Clutch & Direct Clutch
5th	Forward Clutch, Direct Clutch & Overdrive Band
Reverse	Reverse Band, Direct Clutch & Coast Clutch

* = Direct One Way “Overdrive Sprag”

Torque Converter

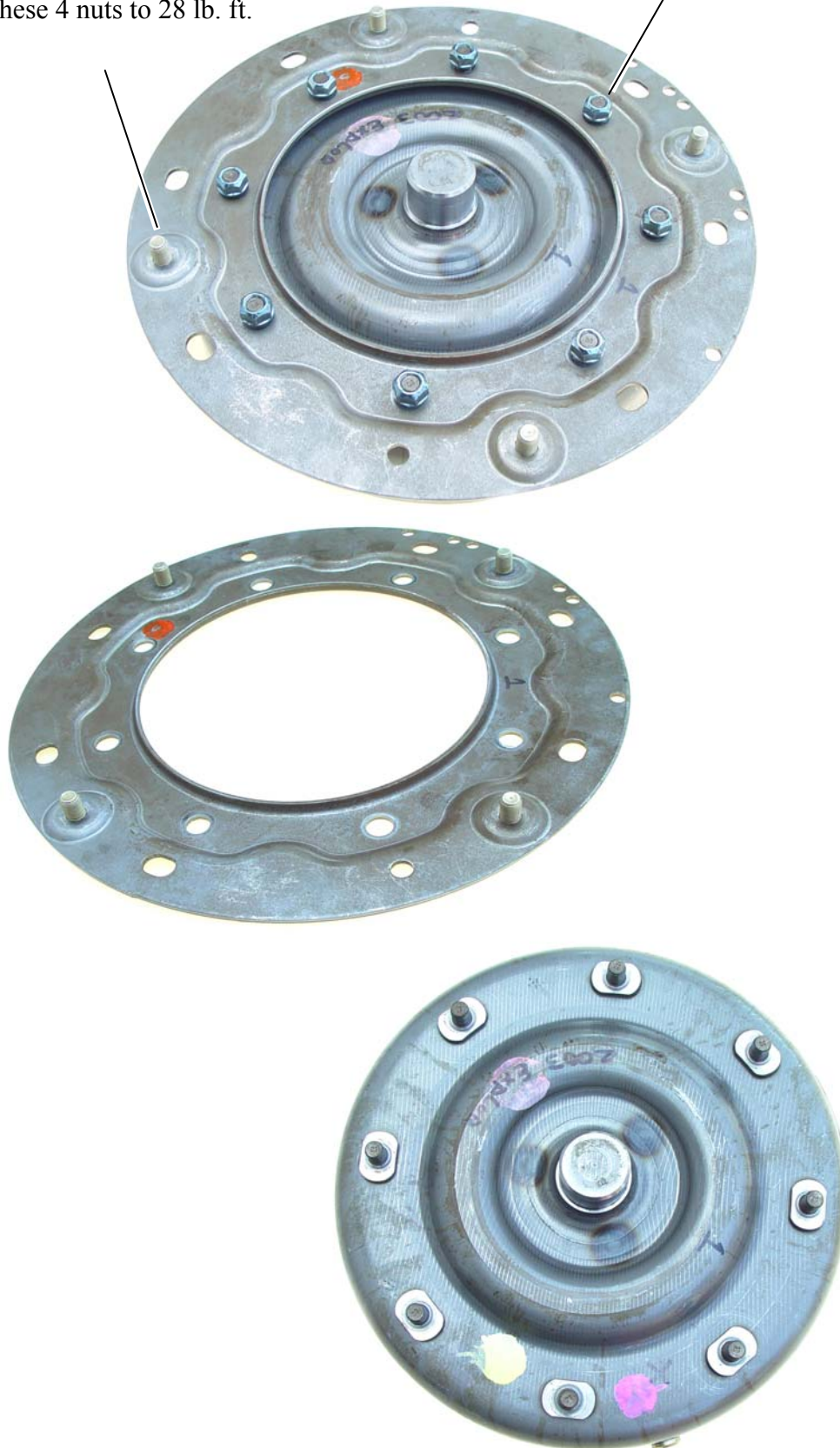


Torque the converter
drain plug to 89 in. lb.



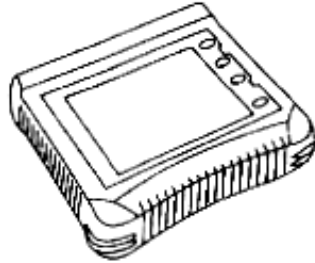
Torque these 4 nuts to 28 lb. ft.

Torque these 8 nuts to 33 lb. ft.



Scan Tools

Available from Ford



ST2332-A

Worldwide Diagnostic System
(WDS)

418-F224

New Generation Star (NGS)
Tester

418-F205 or equivalent scan tool

Aftermarket scan tools:

SnapOn www.snapon.com or local dealer

Or

Ease Diagnostics www.obd2.com or 888-366-3273

Abbreviations

A	Ampere(s)/Amp(s)	Btu	British Thermal Units	DCM	Door Control Module
ABS	Antilock Brake System	C	Degrees Celsius	DE	Drive End
A/C	Air Conditioning	CAC	Charge Air Cooler	DEC	Digital Electronic Controller
AC	Alternating Current	CAFÉ	Corporate Average Fuel Economy	DERM	Diagnostic Energy Reserve Module
ACC	Automatic Climate Control	Cal	Calibration	DI	Distributor Ignition
ACL	Air Cleaner	Cam	Camshaft	dia	diameter
ACR4	Air Conditioning Refrigerant, Recovery, Recycling, Recharging	CARB	Calif Air Resources Board	DIC	Driver Information Center
A/D	Analog to Digital	cc	cubic centimeters	Diff	Differential
ADL	Automatic Door Lock	CCM	Central Control Module	DK	Dark
A/F	Air/Fuel Ratio	CCOT	Cycling Clutch Orifice Tube	DLC	Data Link Connector
AIR	Secondary Air Injection	CCP	Climate Control Panel	DMM	Digital Multimeter
ALC	Automatic Level Control	CD	Compact Disc	DOHC	Dual Overhead Camshafts
AM/FM	Amplitude Modulation/Frequency Modulation	CE	Commutator End	DR	Driver
Ant	Antenna	CEAB	Cold Engine Air Bleed	DRL	Daytime Running Lamps
AP	Accelerator Pedal	CEMF	Counter Electromotive Force	DTC	Diagnostic Trouble Code
API	American Protection Institute	cfm	cubic feet per minute	DTM	Diagnostic test mode
APP	Accelerator Pedal Position	cg	center of gravity	EBCM	Electronic Brake Control Module
APT	Adjustable Part Throttle	CID	Cubic Inch Displacement	EBTCM	Electronic Brake & Traction Control Module
ARS	Automatic Restraint System	CKP	Crankshaft Position sensor	EC	Electrical Center
A/T	Automatic Transmission/ Transaxle	CKT	Circuit	ECC	Electronic Climate Control
ATC	Automatic Temperature Control	CL	Closed Loop	ECC	Electronic Climate Control
ATDC	After Top Dead Center	C/Ltr	Cigar Lighter	ECI	Extended Compressor at Idle
Auto	Automatic	CMP	Camshaft Position sensor	ECL	Engine Coolant Level
avg	Average	CNG	Compressed Natural Gas	ECM	Engine Control Module
AWD	All Wheel Drive	CO	Carbon Monoxide	ECS	Emission Control System
AWG	American Wire Gage	CO2	Carbon Dioxide	ECT	Engine Coolant Temperature
B+	Battery Positive Voltage	Coax	Coaxial	EEPROM	Electronically Erasable Programmable Read Only Memory
B	Battery Negative Voltage	COMM	Communication	EEVIR	Evaporator Equalized Values in Receiver
BARO	Barometric Pressure sensor	Conn	Connector	EFE	Early Fuel Evaporation
batt	Battery	CPA	Connector Position Assurance	EGR	Exhaust Gas Recirculation
BBV	Brake Booster Vacuum	CPP	Clutch Pedal Position	EGRTVV	Exhaust Gas Recirculation Thermal Vacuum Valve
BCM	Body Control Module	CPS	Central Power Supply	EI	Electronic Ignition
BHP	Brake Horsepower	CPU	Central Processing Unit	ELAP	Elapsed
BLK	Black	CRT	Cathode Ray Tube	ELC	Electronic Level Control
BLU	Blue	CRTC	Cathode Ray Tube Controller	E/M	English/Metric
BOO	Brake on / off switch	CS	Charging System	EMF	Electromotive Force
BP	Back Pressure	CTP	Closed Throttle Position	Eng	Engine
BPM	Brake Pressure Modulator	cu ft	Cubic foot/feet	EOP	Engine Oil Pressure
BPMV	Brake Pressure Modulator Valve	cu in	Cubic inch/inches	EOT	Engine Oil Temperature
BPP	Brake Pedal Position	CV	Constant Velocity (Joint)	EPA	Environmental Protection Agency
BRN	Brown	Cyl	Cylinder(s)	EPR	Exhaust Pressure Regulator
BTDC	Before Top Dead Center	DAB	Delayed Accessory Bus	EPROM	Erasable Programmable Read Only Memory
BTSI	Brake Transmission Shift Interlock	DB	Decibels on A-weighted Scale	ESC	Electronic Suspension Control
		DC	Direct Current	ESD	Electrostatic Discharge
				ETC	Electronic Throttle Control or Electronic Temperature Control

ETR	Electronically Tuned Receiver	HPV	High Pressure Vapor	lt	left
EVAP	Evaporative Emission	Htd	Heated	LT	Light
EVO	Electronic Variable Orifice	HTR	Heater	MAF	Mass Air Flow
Exh	Exhaust	HUD	Head-up Display	Man	Manual
F	Degrees Fahrenheit	HVAC	Heater-Vent-Air Conditioning	MAP	Manifold Absolute Pressure
FC	Fan Control	HVACM	Heater-Vent-Air Conditioning Module	MAT	Manifold Absolute Temperature
FDC	Fuel Data Center	HVM	Heater Vent Module	max	maximum
FED	Federal (all United States except Calif)	Hz	Hertz	M/C	Mixture Control
FEDS	Fuel Enable Data Stream	IAC	Idle Air Control	MDP	Manifold Differential Pressure
FF	Flexible Fuel	IAT	Intake Air Temperature	MFI	Multiport Fuel Injection
FI	Fuel Injection	IC	Integrated Circuit or Ignition Control	mi	mile(s)
FMEM	Failure management effects mode	ICM	Ignition Control Module	MIL	Malfunction Indicator Lamp
FMVSS	Federal Motor Vehicle Safety Standards	ID	Identification or Inside Diameter	min	minimum
F/P	Fuel Pump	IDI	Integrated Direct Ignition	ml	milliliter
Ft	foot/feet	ign	ignition	MLP	Manual lever position sensor
FT	Fuel Trim	ILC	Idle Load Compensator	mm	millimeter
F4WD	Full Time Four Wheel Drive	in	inch(es)	mpg	miles per gallon
4WAL	Four Wheel Antilock	INJ	Injection	mph	miles per hour
4WD	Four Wheel Drive	inst	instantaneous	ms	millisecond
FW	Flat Wire	I/P	Instrument Panel	MST	Manifold Surface Temperature
FWD	Front Wheel Drive	IPC	Instrument Panel Cluster	M/T	Manual Transmission/Transaxle
g	gram(s) or Gravitational Acceleration	I/PEC	Instrument Panel Electrical Center	MV	Megavolt
GA	Gage	ISC	Idle Speed Control	mV	millivolt
gal	gallon(s)	ISO	International Standards Organization	NAES	North American Export Sales
gas	gasoline	ISS	Input Speed Shaft	NC	Normally Closed
GCW	Gross Combination Weight	KAM	Keep Alive Memory	NEG	Negative
Gen	Generator	KDD	Keyboard Display Driver	Neu	Neutral
GL	Gear Lubricant	kg	kilogram	NLGI	National Lubricating Grease Institute
GM	General Motors	kHZ	kilohertz	N-m	Newton-meter (torque)
GM SPO	General Motors Service Parts Operations	km	kilometer	NO	Normally Open
gnd	ground	km/h	kilometers per hour	NOx	Nitrogen Oxides
gpm	gallons per minute	km/l	kilometers per liter	NPTC	National Pipe Thread-Course
GRN	Green	kPA	kilopascals	NPTF	National Pipe Thread-Fine
GRY	Gray	KS	Knock Sensor	NVRAM	Non-volatile Random Access Memory
GVWR	Gross Vehicle Weight Rating	kV	kilovolts	O2	Oxygen
H	Hydrogen	L	Liter	O2S	Oxygen Sensor
H2O	Water	L4	In-Line Four Cylinder Engine	OBD II	On-board Diagnostics II
Harn	Harness	L6	In-Line Six Cylinder Engine	OC	Oxidation Converter (Catalytic)
HC	Hydrocarbons	lb	pound	OD	Outside Diameter
H/CMPR	High Compression	lb ft	pound feet (torque)	ODO	Odometer
HD	Heavy Duty	lb in	pound inch (torque)	OE	Original Equipment
HDC	Heavy Duty Cooling	LCD	Liquid Crystal Display	OEM	Original Equipment Manufacturer
hex	hexagon	LDCL	Left Door Closed Locking	OHC	Overhead Camshaft
Hg	Mercury	LDCM	Left Door Control Module	OL	Open Loop
Hi Alt	High Altitude	LED	Light Emitting Diode	ORN	Orange
HO2S	Heated Oxygen Sensor	LF	Left Front	OSS	Output Shaft Speed
hp	horsepower	LH	Left Hand	oz	ounce(s)
HPL	High Pressure Liquid	Lm	lumens	PAG	Polyalkylene Glycol
HPS	High Performance System	LR	Left Rear	PASS	Passenger

P/B	Power Brakes	RTD	Real Time Damping	TWC	Three-way Converter (Catalytic)
PC	Pressure Control	RTV	Room Temperature Vulcanizing (Sealer)	TWC+OC	Three-way + Oxidation Converter (Catalytic)
PCB	Printed Circuit Board	RWAL	Rear Wheel Antilock	TXV	Thermal Expansion Valve
PCM	Powertrain Control Module	RWD	Rear Wheel Drive	UART	Universal Asynchronous Receive & Transmit
PCS	Pressure Control Solenoid	s	second(s)	U/H	Under Hood
PCV	Positive Crankcase Ventilation	SAE	Society of Automotive Engineers	U/HEC	Under Hood Electrical Center
PM	Permanent Magnet (Generator)	SC	Supercharger	U-Joint	Universal Joint
P/N	Part Number	SCB	Supercharger Bypass	UTD	Universal Theft Deterrent
PNK	Pink	SCM	Seat Control Module	UV	Ultraviolet
PNP	Park/Neutral Position	SDM	Sensing & Diagnostic Module	V	Volt(s) or Voltage
PRNDL	Park, Reverse, Neutral, Drive, Low	SEO	Special Equipment Option	V6	V-type 6 Cylinder Engine
POA	Pilot Operated Absolute (Valve)	SFI	Sequential Multiport Fuel Injection	V8	V-type 8 Cylinder Engine
POS	Positive	SI	System International (modern version of metric system)	Vac	Vacuum
POT	Potentiometer (Variable Resistor)	SIR	Supplemental Inflatable Restraint	VAC	Vehicle Access Code
PPL	Purple	SLA	Short/Long Arm	VATS	Vehicle Anti-theft System
ppm	parts per million	sol	solenoid	VCM	Vehicle Control Module
PROM	Programmable Read Only Memory	SO2	Sulfur Dioxide	VDOT	Variable Displacement Orifice Tube
P/S	Power Steering	SP	Splice Pack	VDV	Vacuum Delay Valve
PSD	Power Sliding Door	SP	Splice Pack	vel	velocity
PSP	Power Steering Pressure	SPO	Service Parts Operations	VES	Variable Effort Steering
psi	pounds per square inch	sq ft	square foot/feet	VF	Vacuum Fluorescent
psia	pounds per square inch absolute	sq in	square inch(es)	VIO	Violet
psig	pounds per square inch guage	SRC	Service Ride Control	VIN	Vehicle Identification Number
pt	pint	SRI	Service Reminder Indicator	VMV	Vacuum Modulator Valve
PWM	Pulse Width Modulated	ST	Scan Tool	VR	Voltage Regulator
qt	quart(s)	S4WD	Selectable Four Wheel Drive	V ref	Voltage reference
R-12	Refrigerant-12	sw	Switch	VSS	Vehicle Speed Sensor – also called OSS sensor
R-134a	Refrigerant-134a	syn	synchronizer	W/	with
RAM	Random Access Memory (impermanent memory device; memory contents lost when power removed)	Tach	Tachometer	W/B	Wheel Base
RAP	Retained Accessory Power	TB	Throttle body	WHL	Wheel
RAV	Remote Activation Verification	TBI	Throttle Body Fuel Injection	WHT	White
RCDLR	Remote Control Door Lock Receiver	TC	Turbocharger	W/o	without
RDCM	Right Door Control Module	TCC	Torque Converter Clutch	WOT	Wide Open Throttle
Ref	Reference	TCIL	Transmission control indicator lamp	W/P	Water Pump
Rev	Reverse	TCS	Transmission control switch	W/S	Windshield
RF	Right Front or Radio Frequency	TDC	Top Dead Center	WSS	Wheel Speed Sensor
RFA	Remote Function Actuation	TEMP	Temperature	WU-OC	Warm-up Oxidation Converter (Catalytic)
RFI	Radio Frequency Interference	Term	Terminal	WU-TWC	Warm-up Three-way Converter (Catalytic)
RH	Right Hand	TFP	Transmission Fluid Pressure	X-valve	Expansion Valve
Rly	relay	TFT	Transmission Fluid Temperature	yd	yard(s)
RM	Relay module	TOC	Transmission Oil Cooler	YEL	Yellow
ROM	Read Only Memory (permanent memory device)	TP	Throttle Position		
RPM	Revolutions Per Minute—Engine Speed	TPA	Terminal Positive Assurance		
RPO	Regular Production Option	TPM	Tire Pressure Monitoring		
RR	Right Rear	TR	Transmission Range / Sensor		
rt	right	TRANS	Transmission/Transaxle		
		TSS	Turbine shaft sensor		
		TVRS	Television & Radio Suppression		
		TVV	Thermal Vacuum Valve		

SAE OBDII Code Listing

P0100 Mass or Volume Air Flow Circuit Malfunction
P0101 Mass or Volume Air Flow Circuit Range/Performance Problem
P0102 Mass or Volume Air Flow Circuit Low Input
P0103 Mass or Volume Air Flow Circuit High Input
P0104 Mass or Volume Air Flow Circuit Intermittent
P0105 Manifold Absolute Pressure/Barometric Pressure Circuit Malfunction
P0106 Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance
P0107 Manifold Absolute Pressure/Barometric Pressure Circuit Low Input
P0108 Manifold Absolute Pressure/Barometric Pressure Circuit High Input
P0109 Manifold Absolute Pressure/Barometric Pressure Circuit Intermittent
P0109 Intake Air Temperature Circuit Malfunction
P0111 Intake Air Temperature Circuit Range/Performance Problem
P0112 Intake Air Temperature Circuit Low Input
P0113 Intake Air Temperature Circuit High Input
P0114 Intake Air Temperature Circuit Intermittent
P0115 Engine Coolant Temperature Circuit Malfunction
P0116 Engine Coolant Temperature Circuit Range/Performance Problem
P0117 Engine Coolant Temperature Circuit Low Input
P0118 Engine Coolant Temperature Circuit High Input
P0119 Engine Coolant Temperature Circuit Intermittent
P0120 Throttle/Petal Position Sensor/Switch A Circuit Malfunction
P0121 Throttle/Petal Position Sensor/Switch A Circuit Range/Performance Problem
P0122 Throttle/Petal Position Sensor/Switch A Circuit Low Input
P0123 Throttle/Petal Position Sensor/Switch A Circuit High Input
P0124 Throttle/Petal Position Sensor/Switch A Circuit Intermittent
P0125 Insufficient Coolant Temperature for Closed Loop Fuel Control
P0126 Insufficient Coolant Temperature for Stable Operation
P0130 02 Sensor Circuit Malfunction (Bank 1 Sensor 1)
P0131 02 Sensor Circuit Low Voltage (Bank 1 Sensor 1)
P0132 02 Sensor Circuit High Voltage (Bank 1 Sensor 1)
P0133 02 Sensor Circuit Slow Response (Bank 1 Sensor 1)
P0134 02 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)
P0135 02 Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)
P0136 02 Sensor Circuit Malfunction (Bank 1 Sensor 2)
P0137 02 Sensor Circuit Low Voltage (Bank 1 Sensor 2)
P0138 02 Sensor Circuit High Voltage (Bank 1 Sensor 2)
P0139 02 Sensor Circuit Slow Response (Bank 1 Sensor 2)
P0140 02 Sensor Circuit No Activity Detected (Bank 1 Sensor 2)
P0141 02 Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)
P0142 02 Sensor Circuit Malfunction (Bank 1 Sensor 3)
P0143 02 Sensor Circuit Low Voltage (Bank 1 Sensor 3)
P0144 02 Sensor Circuit High Voltage (Bank 1 Sensor 3)
P0145 02 Sensor Circuit Slow Response (Bank 1 Sensor 3)
P0146 02 Sensor Circuit No Activity Detected (Bank 1 Sensor 3)
P0147 02 Sensor Heater Circuit Malfunction (Bank 1 Sensor 3)
P0150 02 Sensor Circuit Malfunction (Bank 2 Sensor 1)
P0151 02 Sensor Circuit Low Voltage (Bank 2 Sensor 1)
P0152 02 Sensor Circuit High Voltage (Bank 2 Sensor 1)
P0153 02 Sensor Circuit Slow Response (Bank 2 Sensor 1)
P0154 02 Sensor Circuit No Activity Detected (Bank 2 Sensor 1)
P0155 02 Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)

P0156 02 Sensor Circuit Malfunction (Bank 2 Sensor 2)
P0157 02 Sensor Circuit Low Voltage (Bank 2 Sensor 2)
P0158 02 Sensor Circuit High Voltage (Bank 2 Sensor 2)
P0159 02 Sensor Circuit Slow Response (Bank 2 Sensor 2)
P0160 02 Sensor Circuit No Activity Detected (Bank 2 Sensor 2)
P0161 02 Sensor Heater Circuit Malfunction (Bank 2 Sensor 2)
P0162 02 Sensor Circuit Malfunction (Bank 2 Sensor 3)
P0163 02 Sensor Circuit Low Voltage (Bank 2 Sensor 3)
P0164 02 Sensor Circuit High Voltage (Bank 2 Sensor 3)
P0165 02 Sensor Circuit Slow Response (Bank 2 Sensor 3)
P0166 02 Sensor Circuit No Activity Detected (Bank 2 Sensor 3)
P0167 02 Sensor Heater Circuit Malfunction (Bank 2 Sensor 3)
P0170 Fuel Trim Malfunction (Bank 1)
P0171 System too Lean (Bank 1)
P0172 System too Rich (Bank 1)
P0173 Fuel Trim Malfunction (Bank 2)
P0174 System too Lean (Bank 2)
P0175 System too Rich (Bank 2)
P0176 Fuel Composition Sensor Circuit Malfunction
P0177 Fuel Composition Sensor Circuit Range/Performance
P0178 Fuel Composition Sensor Circuit Low Input
P0179 Fuel Composition Sensor Circuit High Input
P0180 Fuel Temperature Sensor A Circuit Malfunction
P0181 Fuel Temperature Sensor A Circuit Range/Performance
P0182 Fuel Temperature Sensor A Circuit Low Input
P0183 Fuel Temperature Sensor A Circuit High Input
P0184 Fuel Temperature Sensor A Circuit Intermittent
P0185 Fuel Temperature Sensor B Circuit Malfunction
P0186 Fuel Temperature Sensor B Circuit Range/Performance
P0187 Fuel Temperature Sensor B Circuit Low Input
P0188 Fuel Temperature Sensor B Circuit High Input
P0189 Fuel Temperature Sensor B Circuit Intermittent
P0190 Fuel Rail Pressure Sensor Circuit Malfunction
P0191 Fuel Rail Pressure Sensor Circuit Range/Performance
P0192 Fuel Rail Pressure Sensor Circuit Low Input
P0193 Fuel Rail Pressure Sensor Circuit High Input
P0194 Fuel Rail Pressure Sensor Circuit Intermittent
P0195 Engine Oil Temperature Sensor Malfunction
P0196 Engine Oil Temperature Sensor Range/Performance
P0197 Engine Oil Temperature Sensor Low
P0198 Engine Oil Temperature Sensor High
P0199 Engine Oil Temperature Sensor Intermittent
P0200 Injector Circuit Malfunction
P0201 Injector Circuit Malfunction - Cylinder 1
P0202 Injector Circuit Malfunction - Cylinder 2
P0203 Injector Circuit Malfunction - Cylinder 3
P0204 Injector Circuit Malfunction - Cylinder 4
P0205 Injector Circuit Malfunction - Cylinder 5
P0206 Injector Circuit Malfunction - Cylinder 6
P0207 Injector Circuit Malfunction - Cylinder 7
P0208 Injector Circuit Malfunction - Cylinder 8
P0209 Injector Circuit Malfunction - Cylinder 9
P0210 Injector Circuit Malfunction - Cylinder 10

P0211 Injector Circuit Malfunction - Cylinder 11
 P0212 Injector Circuit Malfunction - Cylinder 12
 P0213 Cold Start Injector 1 Malfunction
 P0214 Cold Start Injector 2 Malfunction
 P0215 Engine Shutoff Solenoid Malfunction
 P0216 Injection Timing Control Circuit Malfunction
 P0217 Engine Overtemp Condition
 P0218 Transmission Over Temperature Condition
 P0219 Engine Overspeed Condition
 P0220 Throttle/Petal Position Sensor/Switch B Circuit Malfunction
 P0221 Throttle/Petal Position Sensor/Switch B Circuit Range/Performance Problem
 P0222 Throttle/Petal Position Sensor/Switch B Circuit Low Input
 P0223 Throttle/Petal Position Sensor/Switch B Circuit High Input
 P0224 Throttle/Petal Position Sensor/Switch B Circuit Intermittent
 P0225 Throttle/Petal Position Sensor/Switch C Circuit Malfunction
 P0226 Throttle/Petal Position Sensor/Switch C Circuit Range/Performance Problem
 P0227 Throttle/Petal Position Sensor/Switch C Circuit Low Input
 P0228 Throttle/Petal Position Sensor/Switch C Circuit High Input
 P0229 Throttle/Petal Position Sensor/Switch C Circuit Intermittent
 P0230 Fuel Pump Primary Circuit Malfunction
 P0231 Fuel Pump Secondary Circuit Low
 P0232 Fuel Pump Secondary Circuit High
 P0233 Fuel Pump Secondary Circuit Intermittent
 P0234 Engine Overboost Condition
 P0235 Turbocharger Boost Sensor A Circuit Malfunction
 P0236 Turbocharger Boost Sensor A Circuit Range/Performance
 P0237 Turbocharger Boost Sensor A Circuit Low
 P0238 Turbocharger Boost Sensor A Circuit High
 P0239 Turbocharger Boost Sensor B Malfunction
 P0240 Turbocharger Boost Sensor B Circuit Range/Performance
 P0241 Turbocharger Boost Sensor B Circuit Low
 P0242 Turbocharger Boost Sensor B Circuit High
 P0243 Turbocharger Wastegate Solenoid A Malfunction
 P0244 Turbocharger Wastegate Solenoid A Range/Performance
 P0245 Turbocharger Wastegate Solenoid A Low
 P0246 Turbocharger Wastegate Solenoid A High
 P0247 Turbocharger Wastegate Solenoid B Malfunction
 P0248 Turbocharger Wastegate Solenoid B Range/Performance
 P0249 Turbocharger Wastegate Solenoid B Low
 P0250 Turbocharger Wastegate Solenoid B High
 P0251 Injection Pump Fuel Metering Control "A" Malfunction (Cam/Rotor/Injector)
 P0252 Injection Pump Fuel Metering Control "A" Range/Performance (Cam/Rotor/Injector)
 P0253 Injection Pump Fuel Metering Control "A" Low (Cam/Rotor/Injector)
 P0254 Injection Pump Fuel Metering Control "A" High (Cam/Rotor/Injector)
 P0255 Injection Pump Fuel Metering Control "A" Intermittent (Cam/Rotor/Injector)
 P0256 Injection Pump Fuel Metering Control "B" Malfunction (Cam/Rotor/Injector)
 P0257 Injection Pump Fuel Metering Control "B" Range/Performance (Cam/Rotor/Injector)
 P0258 Injection Pump Fuel Metering Control "B" Low (Cam/Rotor/Injector)
 P0259 Injection Pump Fuel Metering Control "B" High (Cam/Rotor/Injector)
 P0260 Injection Pump Fuel Metering Control "B" Intermittent (Cam/Rotor/Injector)
 P0261 Cylinder 1 Injector Circuit Low
 P0262 Cylinder 1 Injector Circuit High
 P0263 Cylinder 1 Contribution/Balance Fault

P0264 Cylinder 2 Injector Circuit Low
P0265 Cylinder 2 Injector Circuit High
P0266 Cylinder 2 Contribution/Balance Fault
P0267 Cylinder 3 Injector Circuit Low
P0268 Cylinder 3 Injector Circuit High
P0269 Cylinder 3 Contribution/Balance Fault
P0270 Cylinder 4 Injector Circuit Low
P0271 Cylinder 4 Injector Circuit High
P0272 Cylinder 4 Contribution/Balance Fault
P0273 Cylinder 5 Injector Circuit Low
P0274 Cylinder 5 Injector Circuit High
P0275 Cylinder 5 Contribution/Balance Fault
P0276 Cylinder 6 Injector Circuit Low
P0277 Cylinder 6 Injector Circuit High
P0278 Cylinder 6 Contribution/Balance Fault
P0279 Cylinder 7 Injector Circuit Low
P0280 Cylinder 7 Injector Circuit High
P0281 Cylinder 7 Contribution/Balance Fault
P0282 Cylinder 8 Injector Circuit Low
P0283 Cylinder 8 Injector Circuit High
P0284 Cylinder 8 Contribution/Balance Fault
P0285 Cylinder 9 Injector Circuit Low
P0286 Cylinder 9 Injector Circuit High
P0287 Cylinder 9 Contribution/Balance Fault
P0288 Cylinder 10 Injector Circuit Low
P0289 Cylinder 10 Injector Circuit High
P0290 Cylinder 10 Contribution/Balance Fault
P0291 Cylinder 11 Injector Circuit Low
P0292 Cylinder 11 Injector Circuit High
P0293 Cylinder 11 Contribution/Balance Fault
P0294 Cylinder 12 Injector Circuit Low
P0295 Cylinder 12 Injector Circuit High
P0296 Cylinder 12 Contribution/Range Fault
P0300 Random/Multiple Cylinder Misfire Detected
P0301 Cylinder 1 Misfire Detected
P0302 Cylinder 2 Misfire Detected
P0303 Cylinder 3 Misfire Detected
P0304 Cylinder 4 Misfire Detected
P0305 Cylinder 5 Misfire Detected
P0306 Cylinder 6 Misfire Detected
P0307 Cylinder 7 Misfire Detected
P0308 Cylinder 8 Misfire Detected
P0309 Cylinder 9 Misfire Detected
P0311 Cylinder 11 Misfire Detected
P0312 Cylinder 12 Misfire Detected
P0320 Ignition/Distributor Engine Speed Input Circuit Malfunction
P0321 Ignition/Distributor Engine Speed Input Circuit Range/Performance
P0322 Ignition/Distributor Engine Speed Input Circuit No Signal
P0323 Ignition/Distributor Engine Speed Input Circuit Intermittent
P0325 Knock Sensor 1 Circuit Malfunction (Bank 1 or Single Sensor)
P0326 Knock Sensor 1 Circuit Range/Performance (Bank 1 or Single Sensor)
P0327 Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor)
P0328 Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)

P0329 Knock Sensor 1 Circuit Intermittent (Bank 1 or Single Sensor)
P0330 Knock Sensor 2 Circuit Malfunction (Bank 2)
P0331 Knock Sensor 2 Circuit Range/Performance (Bank 2)
P0332 Knock Sensor 2 Circuit Low Input (Bank 2)
P0333 Knock Sensor 2 Circuit High Input (Bank 2)
P0334 Knock Sensor 2 Circuit Intermittent (Bank 2)
P0335 Crankshaft Position Sensor A Circuit Malfunction
P0336 Crankshaft Position Sensor A Circuit Range/Performance
P0337 Crankshaft Position Sensor A Circuit Low Input
P0338 Crankshaft Position Sensor A Circuit High Input
P0339 Crankshaft Position Sensor A Circuit Intermittent
P0340 Camshaft Position Sensor Circuit Malfunction
P0341 Camshaft Position Sensor Circuit Range/Performance
P0342 Camshaft Position Sensor Circuit Low Input
P0343 Camshaft Position Sensor Circuit High Input
P0344 Camshaft Position Sensor Circuit Intermittent
P0350 Ignition Coil Primary/Secondary Circuit Malfunction
P0351 Ignition Coil A Primary/Secondary Circuit Malfunction
P0352 Ignition Coil B Primary/Secondary Circuit Malfunction
P0353 Ignition Coil C Primary/Secondary Circuit Malfunction
P0354 Ignition Coil D Primary/Secondary Circuit Malfunction
P0355 Ignition Coil E Primary/Secondary Circuit Malfunction
P0356 Ignition Coil F Primary/Secondary Circuit Malfunction
P0357 Ignition Coil G Primary/Secondary Circuit Malfunction
P0358 Ignition Coil H Primary/Secondary Circuit Malfunction
P0359 Ignition Coil I Primary/Secondary Circuit Malfunction
P0360 Ignition Coil J Primary/Secondary Circuit Malfunction
P0361 Ignition Coil K Primary/Secondary Circuit Malfunction
P0362 Ignition Coil L Primary/Secondary Circuit Malfunction
P0370 Timing Reference High Resolution Signal A Malfunction
P0371 Timing Reference High Resolution Signal A Too Many Pulses
P0372 Timing Reference High Resolution Signal A Too Few Pulses
P0373 Timing Reference High Resolution Signal A Intermittent/Erratic Pulses
P0374 Timing Reference High Resolution Signal A No Pulses
P0375 Timing Reference High Resolution Signal B Malfunction
P0376 Timing Reference High Resolution Signal B Too Many Pulses
P0377 Timing Reference High Resolution Signal B Too Few Pulses
P0378 Timing Reference High Resolution Signal B Intermittent/Erratic Pulses
P0379 Timing Reference High Resolution Signal B No Pulses
P0380 Glow Plug/Heater Circuit "A" Malfunction
P0381 Glow Plug/Heater Indicator Circuit Malfunction
P0382 Exhaust Gas Recirculation Flow Malfunction
P0385 Crankshaft Position Sensor B Circuit Malfunction
P0386 Crankshaft Position Sensor B Circuit Range/Performance
P0387 Crankshaft Position Sensor B Circuit Low Input
P0388 Crankshaft Position Sensor B Circuit High Input
P0389 Crankshaft Position Sensor B Circuit Intermittent
P0400 Exhaust Gas Recirculation Flow Malfunction
P0401 Exhaust Gas Recirculation Flow Insufficient Detected
P0402 Exhaust Gas Recirculation Flow Excessive Detected
P0403 Exhaust Gas Recirculation Circuit Malfunction
P0404 Exhaust Gas Recirculation Circuit Range/Performance
P0405 Exhaust Gas Recirculation Sensor A Circuit Low

P0406 Exhaust Gas Recirculation Sensor A Circuit High
P0407 Exhaust Gas Recirculation Sensor B Circuit Low
P0408 Exhaust Gas Recirculation Sensor B Circuit High
P0410 Secondary Air Injection System Malfunction
P0411 Secondary Air Injection System Incorrect Flow Detected
P0412 Secondary Air Injection System Switching Valve A Circuit Malfunction
P0413 Secondary Air Injection System Switching Valve A Circuit Open
P0414 Secondary Air Injection System Switching Valve A Circuit Shorted
P0415 Secondary Air Injection System Switching Valve B Circuit Malfunction
P0416 Secondary Air Injection System Switching Valve B Circuit Open
P0417 Secondary Air Injection System Switching Valve B Circuit Shorted
P0418 Secondary Air Injection System Relay "A" Circuit Malfunction
P0419 Secondary Air Injection System Relay "B" Circuit Malfunction
P0420 Catalyst System Efficiency Below Threshold (Bank 1)
P0421 Warm Up Catalyst Efficiency Below Threshold (Bank 1)
P0422 Main Catalyst Efficiency Below Threshold (Bank 1)
P0423 Heated Catalyst Efficiency Below Threshold (Bank 1)
P0424 Heated Catalyst Temperature Below Threshold (Bank 1)
P0430 Catalyst System Efficiency Below Threshold (Bank 2)
P0431 Warm Up Catalyst Efficiency Below Threshold (Bank 2)
P0432 Main Catalyst Efficiency Below Threshold (Bank 2)
P0433 Heated Catalyst Efficiency Below Threshold (Bank 2)
P0434 Heated Catalyst Temperature Below Threshold (Bank 2)
P0440 Evaporative Emission Control System Malfunction
P0441 Evaporative Emission Control System Incorrect Purge Flow
P0442 Evaporative Emission Control System Leak Detected (small leak)
P0443 Evaporative Emission Control System Purge Control Valve Circuit Malfunction
P0444 Evaporative Emission Control System Purge Control Valve Circuit Open
P0445 Evaporative Emission Control System Purge Control Valve Circuit Shorted
P0446 Evaporative Emission Control System Vent Control Circuit Malfunction
P0447 Evaporative Emission Control System Vent Control Circuit Open
P0448 Evaporative Emission Control System Vent Control Circuit Shorted
P0449 Evaporative Emission Control System Vent Valve/Solenoid Circuit Malfunction
P0450 Evaporative Emission Control System Pressure Sensor Malfunction
P0451 Evaporative Emission Control System Pressure Sensor Range/Performance
P0452 Evaporative Emission Control System Pressure Sensor Low Input
P0453 Evaporative Emission Control System Pressure Sensor High Input
P0454 Evaporative Emission Control System Pressure Sensor Intermittent
P0455 Evaporative Emission Control System Leak Detected (gross leak)
P0460 Fuel Level Sensor Circuit Malfunction
P0461 Fuel Level Sensor Circuit Range/Performance
P0462 Fuel Level Sensor Circuit Low Input
P0463 Fuel Level Sensor Circuit High Input
P0464 Fuel Level Sensor Circuit Intermittent
P0465 Purge Flow Sensor Circuit Malfunction
P0466 Purge Flow Sensor Circuit Range/Performance
P0467 Purge Flow Sensor Circuit Low Input
P0468 Purge Flow Sensor Circuit High Input
P0469 Purge Flow Sensor Circuit Intermittent
P0470 Exhaust Pressure Sensor Malfunction
P0471 Exhaust Pressure Sensor Range/Performance
P0472 Exhaust Pressure Sensor Low
P0473 Exhaust Pressure Sensor High

P0474 Exhaust Pressure Sensor Intermittent
P0475 Exhaust Pressure Control Valve Malfunction
P0476 Exhaust Pressure Control Valve Range/Performance
P0477 Exhaust Pressure Control Valve Low
P0478 Exhaust Pressure Control Valve High
P0479 Exhaust Pressure Control Valve Intermittent
P0480 Cooling Fan 1 Control Circuit Malfunction
P0481 Cooling Fan 2 Control Circuit Malfunction
P0482 Cooling Fan 3 Control Circuit Malfunction
P0483 Cooling Fan Rationality Check Malfunction
P0484 Cooling Fan Circuit Over Current
P0485 Cooling Fan Power/Ground Circuit Malfunction
P0500 Vehicle Speed Sensor Malfunction
P0501 Vehicle Speed Sensor Range/Performance
P0502 Vehicle Speed Sensor Low Input
P0503 Vehicle Speed Sensor Intermittent/Erratic/High
P0505 Idle Control System Malfunction
P0506 Idle Control System RPM Lower Than Expected
P0507 Idle Control System RPM Higher Than Expected
P0510 Closed Throttle Position Switch Malfunction
P0520 Engine Oil Pressure Sensor/Switch Circuit Malfunction
P0521 Engine Oil Pressure Sensor/Switch Circuit Range/Performance
P0522 Engine Oil Pressure Sensor/Switch Circuit Low Voltage
P0523 Engine Oil Pressure Sensor/Switch Circuit High Voltage
P0530 A/C Refrigerant Pressure Sensor Circuit Malfunction
P0531 A/C Refrigerant Pressure Sensor Circuit Range/Performance
P0532 A/C Refrigerant Pressure Sensor Circuit Low Input
P0533 A/C Refrigerant Pressure Sensor Circuit High Input
P0534 Air Conditioner Refrigerant Charge Loss
P0550 Power Steering Pressure Sensor Circuit Malfunction
P0551 Power Steering Pressure Sensor Circuit Range/Performance
P0552 Power Steering Pressure Sensor Circuit Low Input
P0553 Power Steering Pressure Sensor Circuit High Input
P0554 Power Steering Pressure Sensor Circuit Intermittent
P0560 System Voltage Malfunction
P0561 System Voltage Unstable
P0562 System Voltage Low
P0563 System Voltage High
P0565 Cruise Control On Signal Malfunction
P0566 Cruise Control Off Signal Malfunction
P0567 Cruise Control Resume Signal Malfunction
P0568 Cruise Control Set Signal Malfunction
P0569 Cruise Control Coast Signal Malfunction
P0570 Cruise Control Accel Signal Malfunction
P0571 Cruise Control/Brake Switch A Circuit Malfunction
P0572 Cruise Control/Brake Switch A Circuit Low
P0573 Cruise Control/Brake Switch A Circuit High
P0574 Cruise Control Related Malfunction
P0575 Cruise Control Related Malfunction
P0576 Cruise Control Related Malfunction
P0576 Cruise Control Related Malfunction
P0578 Cruise Control Related Malfunction
P0579 Cruise Control Related Malfunction

P0580 Cruise Control Related Malfunction
P0600 Serial Communication Link Malfunction
P0601 Internal Control Module Memory Check Sum Error
P0602 Control Module Programming Error
P0603 Internal Control Module Keep Alive Memory (KAM) Error
P0604 Internal Control Module Random Access Memory (RAM) Error
P0605 Internal Control Module Read Only Memory (ROM) Error
P0606 PCM Processor Fault
P0608 Control Module VSS Output "A" Malfunction
P0609 Control Module VSS Output "B" Malfunction
P0620 Generator Control Circuit Malfunction
P0621 Generator Lamp "L" Control Circuit Malfunction
P0622 Generator Field "F" Control Circuit Malfunction
P0650 Malfunction Indicator Lamp (MIL) Control Circuit Malfunction
P0654 Engine RPM Output Circuit Malfunction
P0655 Engine Hot Lamp Output Control Circuit Malfunction
P0656 Fuel Level Output Circuit Malfunction
P0700 Transmission Control System Malfunction
P0701 Transmission Control System Range/Performance
P0702 Transmission Control System Electrical
P0703 Torque Converter/Brake Switch B Circuit Malfunction
P0704 Clutch Switch Input Circuit Malfunction
P0705 Transmission Range Sensor Circuit malfunction (PRNDL Input)
P0706 Transmission Range Sensor Circuit Range/Performance
P0707 Transmission Range Sensor Circuit Low Input
P0708 Transmission Range Sensor Circuit High Input
P0709 Transmission Range Sensor Circuit Intermittent
P0710 Transmission Fluid Temperature Sensor Circuit Malfunction
P0711 Transmission Fluid Temperature Sensor Circuit Range/Performance
P0712 Transmission Fluid Temperature Sensor Circuit Low Input
P0713 Transmission Fluid Temperature Sensor Circuit High Input
P0714 Transmission Fluid Temperature Sensor Circuit Intermittent
P0715 Input/Turbine Speed Sensor Circuit Malfunction
P0716 Input/Turbine Speed Sensor Circuit Range/Performance
P0717 Input/Turbine Speed Sensor Circuit No Signal
P0718 Input/Turbine Speed Sensor Circuit Intermittent
P0719 Torque Converter/Brake Switch B Circuit Low
P0720 Output Speed Sensor Circuit Malfunction
P0721 Output Speed Sensor Range/Performance
P0722 Output Speed Sensor No Signal
P0723 Output Speed Sensor Intermittent
P0724 Torque Converter/Brake Switch B Circuit High
P0725 Engine Speed input Circuit Malfunction
P0726 Engine Speed Input Circuit Range/Performance
P0727 Engine Speed Input Circuit No Signal
P0728 Engine Speed Input Circuit Intermittent
P0730 Incorrect Gear Ratio
P0731 Gear 1 Incorrect ratio
P0732 Gear 2 Incorrect ratio
P0733 Gear 3 Incorrect ratio
P0734 Gear 4 Incorrect ratio
P0735 Gear 5 Incorrect ratio
P0736 Reverse incorrect gear ratio

P0740 Torque Converter Clutch Circuit Malfunction
P0741 Torque Converter Clutch Circuit Performance or Stuck Off
P0742 Torque Converter Clutch Circuit Stuck On
P0743 Torque Converter Clutch Circuit Electrical
P0744 Torque Converter Clutch Circuit Intermittent
P0745 Pressure Control Solenoid Malfunction
P0746 Pressure Control Solenoid Performance or Stuck Off
P0747 Pressure Control Solenoid Stuck On
P0748 Pressure Control Solenoid Electrical
P0749 Pressure Control Solenoid Intermittent
P0750 Shift Solenoid A Malfunction
P0751 Shift Solenoid A Performance or Stuck Off
P0752 Shift Solenoid A Stuck On
P0753 Shift Solenoid A Electrical
P0754 Shift Solenoid A Intermittent
P0755 Shift Solenoid B Malfunction
P0756 Shift Solenoid B Performance or Stuck Off
P0757 Shift Solenoid B Stuck On
P0758 Shift Solenoid B Electrical
P0759 Shift Solenoid B Intermittent
P0760 Shift Solenoid C Malfunction
P0761 Shift Solenoid C Performance or Stuck Off
P0762 Shift Solenoid C Stuck On
P0763 Shift Solenoid C Electrical
P0764 Shift Solenoid C Intermittent
P0765 Shift Solenoid D Malfunction
P0766 Shift Solenoid D Performance or Stuck Off
P0767 Shift Solenoid D Stuck On
P0768 Shift Solenoid D Electrical
P0769 Shift Solenoid D Intermittent
P0770 Shift Solenoid E Malfunction
P0771 Shift Solenoid E Performance or Stuck Off
P0772 Shift Solenoid E Stuck On
P0773 Shift Solenoid E Electrical
P0774 Shift Solenoid E Intermittent
P0780 Shift Malfunction
P0781 1-2 Shift Malfunction
P0782 2-3 Shift Malfunction
P0783 3-4 Shift Malfunction
P0784 4-5 Shift Malfunction
P0785 Shift/Timing Solenoid Malfunction
P0786 Shift/Timing Solenoid Range/Performance
P0787 Shift/Timing Solenoid Low
P0788 Shift/Timing Solenoid High
P0789 Shift/Timing Solenoid Intermittent
P0790 Normal/Performance Switch Circuit Malfunction
P0801 Reverse Inhibit Control Circuit Malfunction
P0803 1-4 Upshift (Skip Shift) Solenoid Control Circuit Malfunction
P0804 1-4 Upshift (Skip Shift) Lamp Control Circuit Malfunction

Ford OBDII Code Listing

- B1231 Longitudinal acceleration threshold exceeded
- B1318 Battery voltage low
- B1342 ECU internal failure
- B1342B ECU is defective
- B1485 Stop lamp switch input circuit battery short
- B1676 Battery voltage out of range
- B1869 Lamp air bag warning indicator circuit open
- B1870 Lamp air bag warning indicator circuit short to battery
- B1871 Passenger air bag disable module fault
- B1877 Seatbelt driver pretensioner circuit open
- B1878 Seatbelt driver pretensioner circuit short to battery
- B1879 Seatbelt driver pretensioner circuit short to ground
- B1881 Seatbelt passenger pretensioner circuit open
- B1882 Seatbelt passenger pretensioner circuit short to battery
- B1883 Seatbelt passenger pretensioner circuit short to ground
- B1884 PAD warning lamp inoperative
- B1885 Seatbelt driver pretensioner circuit resistance low on squib
- B1886 Seatbelt passenger pretensioner circuit resistance low on squib
- B1887 Air bag driver circuit short to ground
- B1888 Air bag passenger circuit short to ground
- B1889 Passenger air bag disable module module sensor obstructed
- B1890 PAD warning lamp circuit short to battery
- B1891 Air bag tone warning indicator circuit short to battery
- B1892 Air bag tone warning indicator circuit failure
- B1900 Driver side air bag fault
- B1901 Air bag crash sensor #1 feed/return circuit short to ground
- B1916 Air bag driver circuit short to battery
- B1921 Air bag diagnostic monitor ground circuit open
- B1925 Air bag passenger circuit short to battery
- B1927 Passenger side air bag fault
- B1932 Air bag driver circuit open
- B1933 Air bag passenger circuit open
- B1934 Air bag driver inflator circuit resistance low on squib
- B1935 Air bag passenger inflator circuit resistance low on squib
- B1941 Air bag crash sensor #1 feed/return circuit open
- B2141 NVM configuration failure
- C1095 Hydraulic pump motor circuit failure
- C1102 Acceleration switch circuit failure
- C1145 Wheel speed RF input circuit failure
- C1155 Wheel speed LF input circuit failure
- C1165 Wheel speed RR input circuit failure
- C1175 Wheel speed LR input circuit failure
- C1230 Rear wheel speed sensor input circuit fault
- C1233 LF wheel speed signal comparison fault
- C1234 RF wheel speed signal comparison fault
- C1235 Speed wheel RR input signal missing
- C1236 Speed wheel RR input signal missing
- C1237 Rear wheel speed signal comparison fault
- C1414 Incorrect module design level
- P1000 OBDII drive cycle not complete
- P1001 KOER not able to complete, KOER aborted
- P1039 Vehicle speed signal missing or improper
- P1051 Brake switch signal missing or improper
- P1100 Mass air flow sensor intermittent
- P1101 Mass air flow (MAF) sensor out of self test range
- P1112 Intake air temperature sensor intermittent
- P1116 Engine coolant temperature (ECT) sensor out of self test range
- P1117 Engine coolant temperature (ECT) sensor intermittent
- P1118 Manifold air temperature sensor (MAT) (ACT)
- P1119 Manifold air temperature sensor (MAT) (ACT)
- P1120 Throttle position circuit out of range low
- P1121 Throttle position sensor inconsistent with MAF sensor
- P1124 Throttle position sensor out of self test range
- P1125 Throttle position sensor intermittent
- P1127 Exhaust not warm enough downstream oxygen sensor not tested
- P1128 Upstream oxygen sensors swapped from bank to bank
- P1129 Downstream oxygen sensors swapped from bank to bank
- P1130 Lack of HO2S11 switch adaptive fuel at limit (bank 1 upstream)
- P1131 Lack of HO2S11 switch sensor indicates lean (Bank 1 upstream)
- P1132 Lack of HO2S11 switch sensor indicates rich (Bank 1 upstream)
- P1133 HO2S11 fuel control shifted lean (Bank 1upstream)
- P1134 HO2S11 fuel control shifted rich (Bank 1upstream)
- P1135 Ignition switch signal missing or improper
- P1137 Lack of HO2S12 switch sensor indicates lean (Bank 1 downstream)
- P1138 Lack of HO2S12 switch sensor indicates rich (Bank 1 downstream)
- P1139 Water in fuel circuit malfunction
- P1140 Water in fuel condition fail

P1141	Fuel restriction indicator circuit malfunction	P1260	Theft detected – engine disabled
P1142	Fuel restriction switch condition fault	P1270	Engine RPM or vehicle speed limiter reach
P1150	Lack of HO2S12 switch adaptive fuel at limit (Bank 2 upstream)	P1280	Injection control pressure sensor out of range low
P1151	Lack of HO2S21 switch sensor indicates lean (Bank 2 upstream)	P1281	Injection control pressure sensor out of range high
P1152	Lack of HO2S21 switch sensor indicates rich (Bank 2 upstream)	P1282	Injection control pressure excessive
P1153	HO2S21 fuel control shifted lean (Bank 2 upstream)	P1283	KOEO injection control regulator fail
P1154	HO2S21 fuel control shifted rich (Bank 2 upstream)	P1284	KOER fail due to injection control pressure failures
P1157	Lack of HO2S21 switch sensor indicates lean (Bank 2 downstream)	P1285	Cylinder head over temperature sensed
P1158	Lack of HO2S21 switch sensor indicates rich (Bank 2 downstream)	P1288	Cylinder head temperature sensor out of self test range
P1184	KOER fail engine oil temperature out of self test range	P1289	Cylinder head temperature sensor high input
P1190	Throttle position sensor B control circuit malfunction	P1290	Cylinder head temperature sensor low input
P1191	Throttle position sensor B out of range	P1299	Cylinder head over temperature protection active
P1192	Throttle position sensor circuit low input	P1309	Misfire monitor failure
P1193	Throttle position sensor circuit high input	P1316	IDM codes detected retrieve IDM codes
P1194	Throttle position sensor B out of self test range	P1317	IDM codes not retrieved
P1195	Throttle position sensor B inconsistent	P1351	Ignition diagnostic monitor (IDM) circuit malfunction
P1209	Injection control pressure peak delta test fail	P1352	Ignition coil A primary malfunction
P1210	Injection control pressure fail maximum pressure test at no-start	P1353	Ignition coil B primary malfunction
P1211	KOER fail injection control pressure steady state	P1354	Ignition coil C primary malfunction
P1212	Injection control pressure fail minimum pressure test at crank	P1355	Ignition coil D primary malfunction
P1220	Throttle position sensor B out of range	P1356	PIP's occurred while IDM pulse width indicates engine not turning
P1224	Throttle position sensor B out of self test range	P1357	Ignition diagnostic monitor pulse width not detected
P1227	Waste gate failed closed (Over pressure)	P1358	IDM signal out of self test range
P1228	Waste gate failed open (Under pressure)	P1359	Spark output circuit malfunction
P1229	Intercooler pump driver fault	P1364	Ignition coil circuit malfunction
P1230	Fuel pump low speed malfunction (VLCM)	P1369	Engine temperature light monitor failure
P1231	Fuel pump secondary circuit low high speed (VLCM)	P1380	Variable cam timing solenoid A malfunction
P1232	Fuel pump secondary circuit high high speed (VLCM)	P1381	Variable cam timing over advanced (Bank A)
P1233	Fuel system disabled or offline	P1383	Variable cam timing over retarded (Bank A)
P1234	Fuel system failed or offline	P1385	Variable cam timing solenoid B malfunction
P1235	Fuel pump control out of range (VLCM)	P1386	Variable cam timing over advanced (Bank B)
P1236	Fuel pump control out of range (VLCM)	P1388	Variable cam timing over retarded (Bank B)
P1237	Fuel pump secondary circuit malfunction	P1389	Glow plug high side out of range low
P1238	Fuel pump secondary circuit malfunction	P1390	Octane adjust service pin out of self test range
P1244	Alternator load input failed high	P1391	Glow plug Bank #1 out of range high
P1245	Alternator load input failed low	P1392	Glow plug Bank #1 out of range low
P1247	Manifold air pressure fail turbocharger hose off	P1393	Glow plug Bank #2 out of range high
P1248	Manifold air pressure fail connection hose off	P1394	Glow plug Bank #2 out of range low
P1249	Waste-gate fail steady state test	P1395	Glow plug monitor fail bank #1 absolute test
P1250	Lack of power to FPRC solenoid	P1396	Glow plug monitor fail bank #2 absolute test

P1141	Fuel restriction indicator circuit malfunction	P1260	Theft detected – engine disabled
P1142	Fuel restriction switch condition fault	P1270	Engine RPM or vehicle speed limiter reach
P1150	Lack of HO2S12 switch adaptive fuel at limit (Bank 2 upstream)	P1280	Injection control pressure sensor out of range low
P1151	Lack of HO2S21 switch sensor indicates lean (Bank 2 upstream)	P1281	Injection control pressure sensor out of range high
P1152	Lack of HO2S21 switch sensor indicates rich (Bank 2 upstream)	P1282	Injection control pressure excessive
P1153	HO2S21 fuel control shifted lean (Bank 2 upstream)	P1283	KOEO injection control regulator fail
P1154	HO2S21 fuel control shifted rich (Bank 2 upstream)	P1284	KOER fail due to injection control pressure failures
P1157	Lack of HO2S21 switch sensor indicates lean (Bank 2 downstream)	P1285	Cylinder head over temperature sensed
P1158	Lack of HO2S21 switch sensor indicates rich (Bank 2 downstream)	P1288	Cylinder head temperature sensor out of self test range
P1184	KOER fail engine oil temperature out of self test range	P1289	Cylinder head temperature sensor high input
P1190	Throttle position sensor B control circuit malfunction	P1290	Cylinder head temperature sensor low input
P1191	Throttle position sensor B out of range	P1299	Cylinder head over temperature protection active
P1192	Throttle position sensor circuit low input	P1309	Misfire monitor failure
P1193	Throttle position sensor circuit high input	P1316	IDM codes detected retrieve IDM codes
P1194	Throttle position sensor B out of self test range	P1317	IDM codes not retrieved
P1195	Throttle position sensor B inconsistent	P1351	Ignition diagnostic monitor (IDM) circuit malfunction
P1209	Injection control pressure peak delta test fail	P1352	Ignition coil A primary malfunction
P1210	Injection control pressure fail maximum pressure test at no-start	P1353	Ignition coil B primary malfunction
P1211	KOER fail injection control pressure steady state	P1354	Ignition coil C primary malfunction
P1212	Injection control pressure fail minimum pressure test at crank	P1355	Ignition coil D primary malfunction
P1220	Throttle position sensor B out of range	P1356	PIP's occurred while IDM pulse width indicates engine not turning
P1224	Throttle position sensor B out of self test range	P1357	Ignition diagnostic monitor pulse width not detected
P1227	Waste gate failed closed (Over pressure)	P1358	IDM signal out of self test range
P1228	Waste gate failed open (Under pressure)	P1359	Spark output circuit malfunction
P1229	Intercooler pump driver fault	P1364	Ignition coil circuit malfunction
P1230	Fuel pump low speed malfunction (VLCM)	P1369	Engine temperature light monitor failure
P1231	Fuel pump secondary circuit low high speed (VLCM)	P1380	Variable cam timing solenoid A malfunction
P1232	Fuel pump secondary circuit high high speed (VLCM)	P1381	Variable cam timing over advanced (Bank A)
P1233	Fuel system disabled or offline	P1383	Variable cam timing over retarded (Bank A)
P1234	Fuel system failed or offline	P1385	Variable cam timing solenoid B malfunction
P1235	Fuel pump control out of range (VLCM)	P1386	Variable cam timing over advanced (Bank B)
P1236	Fuel pump control out of range (VLCM)	P1388	Variable cam timing over retarded (Bank B)
P1237	Fuel pump secondary circuit malfunction	P1389	Glow plug high side out of range low
P1238	Fuel pump secondary circuit malfunction	P1390	Octane adjust service pin out of self test range
P1244	Alternator load input failed high	P1391	Glow plug Bank #1 out of range high
P1245	Alternator load input failed low	P1392	Glow plug Bank #1 out of range low
P1247	Manifold air pressure fail turbocharger hose off	P1393	Glow plug Bank #2 out of range high
P1248	Manifold air pressure fail connection hose off	P1394	Glow plug Bank #2 out of range low
P1249	Waste-gate fail steady state test	P1395	Glow plug monitor fail bank #1 absolute test
P1250	Lack of power to FPRC solenoid	P1396	Glow plug monitor fail bank #2 absolute test

P1397	KOER glow plug test aborted	P1502	KOER fail due to auxiliary powertrain control module active
P1399	Glow plug high side out of range high	P1504	Idle air control circuit malfunction
P1400	DPFE sensor circuit low voltage detected	P1505	Idle air control system at adaptive clip
P1401	DPFE sensor circuit high voltage detected	P1506	Idle air control overspeed error
P1403	DPFE sensor hoses reversed	P1507	Idle air control underspeed error
P1405	DPFE sensor upstream hose off or plugged	P1512	Inlet manifold runner control malfunction (Bank #1 stuck closed)
P1406	DPFE sensor downstream hose off or plugged	P1513	Inlet manifold runner control malfunction (Bank #2 stuck closed)
P1407	Exhaust gas recirculation no flow detected	P1516	Inlet manifold runner control input error (Bank #1)
P1408	EGR flow out of self test range	P1517	Inlet manifold runner control input error (Bank #2)
P1409	EGR control circuit malfunction	P1518	Inlet manifold runner control malfunction (stuck open)
P1410	EGR barometric pressure sensor VREF voltage	P1519	Inlet manifold runner control malfunction (stuck closed)
P1411	Secondary air injection system incorrect downstream flow detected	P1520	Inlet manifold runner control circuit malfunction
P1413	Secondary air injection system monitor circuit low voltage	P1525	KOER or cont. mon. fail charge air bypass valve
P1414	Secondary air injection system monitor circuit high voltage	P1527	AWS solenoid circuit malfunction
P1442	Evaporative emission control system leak detected (small leak)	P1528	PONLY solenoid circuit malfunction
P1443	Evaporative emission control system purge control valve malfunction	P1529	SCAIR solenoid circuit malfunction
P1444	Purge flow sensor circuit low input	P1530	A/C clutch circuit malfunction
P1445	Purge flow sensor circuit high input	P1531	KOER fail pedal position sensor moved
P1450	Unable to bleed up fuel tank vacuum	P1536	PBA fail
P1451	Evaporative emission control system vent control valve circuit malfunction	P1537	Inlet manifold runner control malfunction (bank 2 stuck open)
P1452	Unable to bleed up vacuum in tank	P1538	Inlet manifold runner control malfunction (bank 1 stuck open)
P1455	Evaporative emission control system purge control leak detected (gross leak)	P1539	Power to A/C clutch circuit overcurrent (VLCM)
P1457	Unable to pull vacuum in tank	P1540	Air bypass valve circuit malfunction
P1460	Wide open throttle A/C cutout circuit malfunction	P1549	Intake manifold communication control circuit malfunction
P1461	A/C pressure sensor circuit high input	P1550	Power steering pressure switch out of self test range
P1462	A/C pressure sensor circuit low input	P1601	ECM/TCM serial communication error
P1463	A/C pressure sensor insufficient pressure change	P1602	Imm/TCM serial communication error
P1464	KOER A/C clutch fail – A/C demand out of self test range	P1605	Keep alive memory test fail
P1469	Low A/C cycling period	P1608	Internal control module malfunction
P1473	Fan secondary high with fan(s) off (VLCM)	P1610	Flash EPROM reprogramming error
P1474	Low fan control primary circuit malfunction	P1611	Flash EPROM reprogramming error
P1479	High fan control primary circuit malfunction	P1612	Flash EPROM reprogramming error
P1480	Fan secondary low with low fan on	P1613	Flash EPROM reprogramming error
P1481	Fan secondary low with high fan on	P1614	Flash EPROM reprogramming error
P1484	Open power ground to VLCM (VLCM)	P1615	Flash EPROM reprogramming error
P1500	VSS intermittent	P1616	Flash EPROM reprogramming error
P1501	KOER fail vehicle speed seen during KOER test	P1617	Flash EPROM reprogramming error
		P1618	Flash EPROM reprogramming error
		P1619	Flash EPROM reprogramming error
		P1620	Flash EPROM reprogramming error

P1621	Immobilizer code word / ID write failure	P1710	Transmission concern
P1622	Immobilizer ID unmatched	P1711	KOER fail transmission oil temperature higher or lower than expected
P1623	Immobilizer code word / ID write failure	P1714	SS1 inductive signature malfunction
P1625	B+ supply to VLCM fan circuit malfunction (VLCM)	P1715	SS2 inductive signature malfunction
P1625	B+ supply to VLCM A/C circuit malfunction (VLCM)	P1720	VSS (meter) circuit malfunction
P1630	Alternator #1 circuit malfunction	P1727	CCS inductive signature malfunction
P1631	Alternator #2 circuit malfunction	P1728	E4OD converter clutch control excessive slippage
P1634	Data output link failure flag	P1729	4x4 fail
P1645	F/P resistor switch circuit malfunction	P1730	4x4 low error
P1650	Power steering pressure switch out of self test range	P1731	1-2 shift error
P1651	Power steering pressure switch input malfunction	P1732	2-3 shift error
P1662	KOEO fail injector driver unit relay test	P1733	3-4 shift error
P1663	FDCS fail	P1735	1 st gear switch circuit malfunction
P1667	CI fail	P1736	2 nd gear switch circuit malfunction
P1668	EEC/IDM communications fault	P1738	Shift time error
P1670	EF fail	P1740	TCC inductive signature malfunction
P1680	Metering oil pump malfunction	P1741	TCC control error
P1681	Metering oil pump malfunction	P1742	TCC mechanical failure solenoid struck on
P1682	Metering oil pump malfunction	P1743	LOOP solenoid circuit malfunction
P1683	MOP thermosensor circuit malfunction	P1744	Excessive slip across CC
P1684	MOP position sensor circuit malfunction	P1745	Transmission concern
P1685	MOP stepping motor circuit malfunction	P1746	ETV circuit open
P1686	MOP stepping motor circuit malfunction	P1747	ETV circuit shorted
P1687	MOP stepping motor circuit malfunction	P1748	EPC fail
P1688	MOP stepping motor circuit malfunction	P1749	EPC solenoid failed low
P1689	MOP stepping motor circuit malfunction	P1751	SSB shift solenoid 1 fault
P1690	KOEO waste gate fail	P1754	CCS fail
P1691	SPCNT solenoid circuit malfunction	P1756	SSB shift solenoid 2 fault
P1692	SEXEC solenoid circuit malfunction	P1760	Transmission concern
P1693	SINEC solenoid circuit malfunction	P1761	Shift solenoid C performance
P1694	SINLF solenoid circuit malfunction	P1762	Transmission concern
P1700	Transmission concern	P1765	Solenoid 5 circuit malfunction
P1701	Reverse engagement error	P1766	Shift solenoid D performance
P1702	Transmission concern	P1767	Transmission concern
P1703	Brake switch out of range	P1770	Clutch solenoid circuit malfunction
P1704	Digital TRS failed to transition state	P1775	Shift 1 circuit malfunction
P1705	MLPS fail out of range	P1776	Shift 2 circuit malfunction
P1706	E4OD fail vehicle speed excessive in park	P1779	OCIL fail
P1708	Clutch switch circuit malfunction	P1780	E4OD transmission control switch fail
P1709	PNP switch out of range		

P1781 4x4 circuit out of range
P1783 Transmission oil temperature over temperature
P1784 Transmission 1st and Reverse mechanical fail
P1785 Transmission 1st and 2nd mechanical failure
P1887 Transmission 3rd or 4th gear electrical fault
P1788 VFS #2 open circuit
P1788b Transmission 2-3 timing or CCS circuit open
P1789 VFS #2 short circuit
P1789b Transmission 2-3 timing or CCS circuit shorted
P1790 TPS (mechanical) circuit malfunction
P1791 TPS (electrical) circuit malfunction
P1792 Atmospheric pressure circuit malfunction
P1793 Intake air volume circuit malfunction
P1794 Battery voltage circuit malfunction
P1795 Idle switch circuit malfunction
P1796 Kick down switch circuit malfunction
P1797 Neutral switch circuit malfunction
P1798 Water thermosensor circuit malfunction
P1799 Hold switch circuit malfunction
P1900 Transmission concern
U1020 Module communications network concern
U1021 SCP indicates lack of A/C clutch status input
U1039 SCP indicates VSS signal missing or incorrect
U1051 SCP indicates brake switch signal missing
U1073 SCP indicates lack of engine coolant fan status
U1131 SCP indicates lack of fuel pump status response
U1135 SCP indicates ignition switch signal missing
U1256 SCP indicates A communications error
U1451 Lack of response at PATS module engine off
U1850 Invalid or missing fuel system data