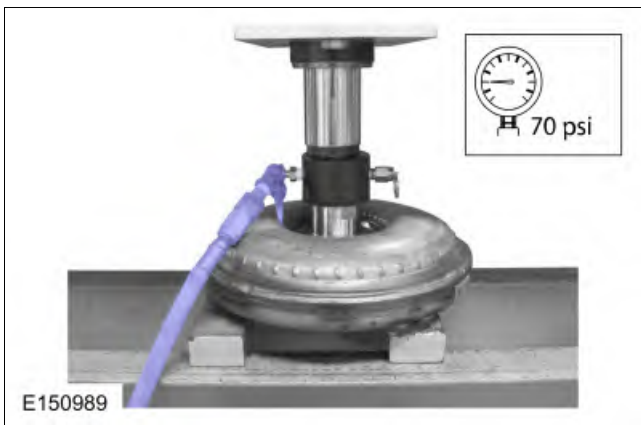
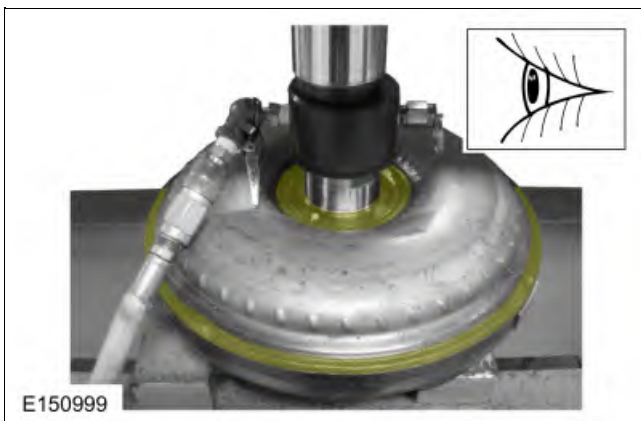
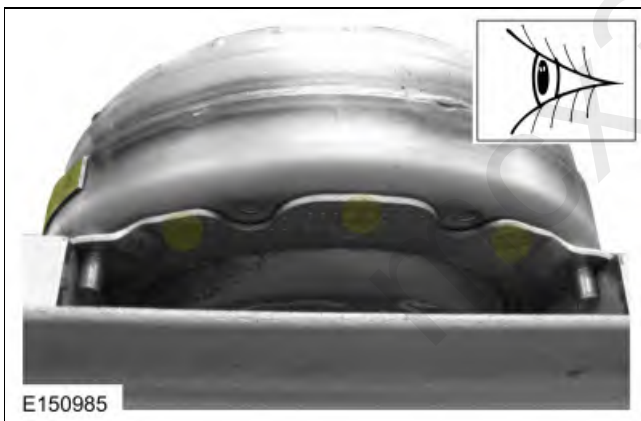




20. Apply air pressure to the valve and inspect for leaks at the torque converter hub welds and seams. Use a soap bubble solution around those areas to aid in diagnosis. If any leaks are present, install a new torque converter.



21. Inspect for leaks at the stud or mounting pad and balance weight welds. Use a soap bubble solution around those areas to aid in diagnosis. If any leaks are present, install a new torque converter.



22. After leaks are repaired, clean the remaining transmission fluid dye from serviced areas.
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Parameter Identification (PID) Chart

Diagnostic PID Chart

PID Acronym	PID Name	Description
APP	APP sensor	APP
APP1	APP sensor 1	APP 1
APP2	APP sensor 2	APP 2
AST	Time Since Start	Time (in seconds) since the vehicle was started
CLRDIST	Distance since DTC cleared	Distance driven since the PCM DTCs were cleared
ECT TCM	ECT TCM	Engine coolant temperature data provided to the TCM
ENGLOAD	Engine Load	Engine load calculated by PCM
ETC_ACT	Electronic Throttle Control Actual	Electronic Throttle Control Actual calculated by PCM
FTBRAKE	Foot Brake - Foot brake state used by strategy	Foot brake state used by strategy calculated by PCM
GEAR	Gear Commanded by Module	PCM commanded transmission gear
GEAR_ENGAGED	Transmission Gear Engaged	Transmission Gear Engaged
GEAR_NTRL_CHK	Gear Neutral Signal Check	Gear Neutral Signal Check
GEAR_OSC#	Gear Commanded by Output State Control	Output state control commanded gear
ISS_A_QF	Transmission Input Shaft Speed Sensor -A- Quality Factor	Transmission Input Shaft Speed Sensor -A- Quality Factor
ISS_A_RAW	Intermediate Speed -A- Raw	Intermediate Speed -A- Raw
LINEDSD#	Line Pressure Control Desired	Commanded line pressure
LPC	Line Pressure Control	LPC
LPC_AMP#	Line Pressure ControlCurrent	LPC current
LPC_F	Line Pressure Control Status	LPC stauts
MIL_DIS	The distance travelled since the (MIL) was activated	The distance travelled since the MIL was activated
OSS_QF	Transmission Output Shaft Speed Sensor Quality Factor	Fault status for the OSS sensor
OSS_RAW	Output Shaft Speed - Raw	Actual speed of the OSS sensor (rpm)
PWRT_FUNCMON_A	Powertrain Secondary Monitor/Performance Fault A	Powertrain Secondary Monitor/Performance Fault A
PWRT_FUNCMON_B	Powertrain Secondary Monitor/Performance Fault A	Powertrain Secondary Monitor/Performance Fault A
REALTIME	Total time (ECU) has been active	ECU Time running
RPM	Engine Revolutions Per Minute	Engine rpm input to TCM
SHFT_DROP	Shift RPM Drop in Input Shaft Speed Below Expected	Shift rpm drop in input shaft speed below expected
SHFT_FLRE	Shift RPM Rise in Input Shaft Speed Above Expected	Shift rpm rise in input shaft speed above expected
SHFT_ID	Shift Identification of Shift (PID)s Lag, Time, Flare and Drop	Shift identification of shift PIDs lag, time, flare and drop
SHFT_LAG	Shift Time Elapsed From 10% to 90% of Complete	Actual time during shift between 10% and 90% complete
SHFT_TIME	Shift Time Elapsed From Commanded to 10% Complete	Shift time 0% to 10% complete
SHFT_TYP	Shift Type	Shift Type
SS_ABS_TC_IN	(Stop-Start) Antilock Brake And Traction Control Summary	(Stop-Start) Antilock Brake And Traction Control Summary

SS_CTRL_CRANK_CMD	(Stop-Start) Main Control Crank Command And Hardware Feedback	(Stop-Start) Main Control Crank Command And Hardware Feedback
SS_CTRL_STATE	(Stop-Start) Main Control State Machine	(Stop-Start) Main Control State Machine
SS_DRVR_INPUTS	(Stop-Start) Monitor Human Input Summary Including Accelerator, Brake, Clutch, Shift Input, Or Cruise Control	(Stop-Start) Monitor Human Input Summary Including Accelerator, Brake, Clutch, Shift Input, Or Cruise Control
SS_MON_STATE	(Stop-Start) Monitor State Machine	(Stop-Start) Monitor State Machine
SS_MON_TIMER	(Stop-Start) Monitor State Machine Transition Timer	(Stop-Start) Monitor State Machine Transition Timer
SS_OUTOP	Start-Stop Coordination	Out of Operation
SS_SHIFTER_IN	(Stop-Start) Shift Lever Position Input	(Stop-Start) Vehicle Speed and Powertrain Shaft Speeds Summary
SS_SPEED_INPUT	(Stop-Start) Vehicle Speed and Powertrain Shaft Speeds Summary	(Stop-Start) Vehicle Speed and Powertrain Shaft Speeds Summary
SS_STRTR_HEAT	(Start-Stop) Starter Motor Heat State	(Start-Stop) Starter Motor Heat State
SSPCA	Shift Solenoid Pressure Control A	Commanded pressure for the Shift Solenoid Pressure Control A (SSPCA)/CB12345
SSA_AMP #	Shift Solenoid Pressure Control A	Commanded current for the Shift Solenoid Pressure Control A (SSPCA)/CB12345
SSPCA_F	(SSPCA) Status	Fault status for the Shift Solenoid Pressure Control A (SSPCA)/CB12345
SSPCB	Shift Solenoid Pressure Control B	Commanded pressure for the Shift Solenoid Pressure Control B (SSPCB)/C46R
SSB_AMP	Shift Solenoid Pressure Control B	Commanded current for the Shift Solenoid Pressure Control B (SSPCB)/C46R
SSPCB_F	(SSPCB) Status	Fault status for the Shift Solenoid Pressure Control B (SSPCB)/C46R
SSPCC	Shift Solenoid Pressure Control C	Commanded pressure for the Shift Solenoid Pressure Control C (SSPCC)/CB37
SSC_AMP	Shift Solenoid Pressure Control C	Commanded current for the Shift Solenoid Pressure Control C (SSPCC)/CB37
SSPCC_F	(SSPCC) Status	Fault status for the Shift Solenoid Pressure Control C (SSPCC)/CB37
SSPCD	Shift Solenoid Pressure Control D	Commanded pressure for the Shift Solenoid Pressure Control D (SSPCD)/SOWC
SSD_AMP	Shift Solenoid Pressure Control D	Commanded current for the Shift Solenoid Pressure Control D (SSPCD)/SOWC
SSPCD_F	(SSPCD) Status	Fault status for the Shift Solenoid Pressure Control D (SSPCD)/SOWC
SSPCE	Shift Solenoid Pressure Control E	Commanded pressure for the Shift Solenoid Pressure Control E (SSPCE)/C5678
SSE_AMP	Shift Solenoid Pressure Control E	Commanded current for the Shift Solenoid Pressure Control E (SSPCE)/C5678
SSPCE_F	(SSPCE) Status	Fault status for the Shift Solenoid Pressure Control E (SSPCE)/C5678
SSPCF	Shift Solenoid Pressure Control F	Commanded pressure for the Shift Solenoid Pressure Control F (SSPCEF)/CB28
SSF_AMP	Shift Solenoid Pressure Control F	Commanded current for the Shift Solenoid Pressure Control F (SSPCF)/CB28
SSPCF_F	(SSPCF) Status	Fault status for the Shift Solenoid Pressure Control F (SSPCEF)/CB28
SST_D	SelectShiftâ¬ Transmission - Down Switch Input	SelectShiftâ¬ transmission-down switch input
SST_U	SelectShiftâ¬ Transmission - Up Switch Input	SelectShiftâ¬ transmission-up switch input