	TEST STEP	RESULT	ACTION TO TAKE
B1 II	NSPECT EXHAUST SYSTEM		
	Visually inspect exhaust system. Is exhaust system visually OK?	Yes	For 7.5L MFI: GO to B10. For all others: GO to B2.
		No I	REPLACE any damaged exhaust components. VERIFY elimination of
			symptom. If problem is not corrected, GO to B2.
	TEST STEP	RESULT	ACTION TO TAKE
<b>B2</b> V	ACUUM TEST		
•	Attach vacuum gauge to intake manifold vacuum source. Hook up tachometer. Observe the vacuum gauge needle while	Yes	No restriction in the exhaust system.  REFER to Section 2A, Diagnostic Routines
	performing the following:  — Start engine and gradually increase the engine rpm to 2000 with the transmission	No I	Index, for Lack of Power.  GO to B3.
	in NEUTRAL.  NOTE: The vacuum gauge reading may be normal when the engine is first started and		
	idled. However, excessive restriction in the		
_	exhaust system will cause the vacuum gauge needle to drop to a low point even while the engine is idled.  Decrease engine speed to base idle rpm.		
•	Did manifold vacuum reach above 16 inches of mercury with the engine rpm at 2000?		
	ACUUM TESTRATE OF VACUUM GAUGE EEDLE RETURN MOVEMENT		
•	Vacuum gauge attached to intake manifold vacuum source.	1	GO to <b>B4</b> .
	Tachometer installed. Increase the engine speed gradually from	No	No restriction in the exhaust system.
•	base idle rpm to 2000 rpm with the		REFER to Section 2A, Diagnostic Routines
•	transmission in NEUTRAL. Observe the rate of speed of the vacuum		Index, for Lack of Power.
	gauge needle as it falls and rises, while maintaining the increased engine rpm.  NOTE:		, onon
	<ul> <li>On a non-restricted system, the vacuum gauge needle will drop to zero and then quickly return to the normal setting without delay.</li> </ul>		
	On a restricted system, as the engine rpm is increased to 2000, the vacuum gauge needle will slowly drop to zero.		
	As the increased rpm is maintained, the needle will slowly rise to normal.		
	<ul> <li>The rate of speed at which the vacuum gauge needle returns to the normal</li> </ul>		
	setting is much slower on a restricted system than on a non-restricted system.		
	Decrease engine speed to base idle rpm.		
	is rate of speed that the vacuum gauge needle returns to the normal setting much slower than that of a non-restricted system?		
	TEST STEP	RESULT	ACTION TO TAKE
	ACUUM TEST—EXHAUST DISCONNECTED		
	Turn engine off. Disconnect exhaust system at exhaust	Yes No	GO to <b>B5</b> .
	manifold(s). Repeat vacuum test found in Step B2. Is manifold vacuum above 16 inches of		do 10 <u>199</u> .
	mercury? ACUUM TEST—CATALYTIC CONVERTER(S) N/MUFFLER(S) OFF		
•		Yes No	REPLACE muffler(s).  REPLACE catalytic
	manifold(s). Disconnect muffler(s).	110	converter and inspect
:	Repeat vacuum test found in Step B2. Is the manifold vacuum above 16 inches of mercury?		muffler to be sure converter debris has not entered muffler.
B6 EX	(HAUST MANIFOLD RESTRICTED	V	DEMOVE analysis
•	Remove the exhaust manifold(s). Inspect the ports for casting flash by dropping a length of chain into each port.	Yes	REMOVE casting flash. If flash cannot be removed, REPLACE exhaust manifold(s).
	NOTE: Do not use a wire or lamp to check ports. The restriction may be large enough for them to pass through, but small enough to cause excessive back pressure at high	No	REFER to Section 2A, Diagnostic Routines Index, for Lack of Power.
•	engine rpm. Is a restriction present?		· Uwoi.