DIAGNOSIS AND TESTING (Continued)

Operation of the A/C compressor clutch is dependent on the ambient temperature and signals from the engine computer. Strategies are programmed into the engine computer to interrupt A/C compressor operation when certain conditions exist. The A/C compressor clutch can be shut off (or kept off) for several seconds at engine start-up, at high engine speeds, during acceleration, when the engine coolant temperature exceeds a predetermined temperature and during low engine idle conditions (approximately 200 rpm below low idle specifications. Refer to the following diagnostic procedures and, if necessary, the Powertrain Control/Emissions Diagnosis Manual to correct an inoperative compressor clutch condition.

NOTE: The ambient temperature must also be above approximately 50°F for A/C compressor operation.

PINPOINT TEST B: A/C CLUTCH CIRCUIT DIAGNOSIS

RA COMPANIE TEST STEP		RESULT	>	ACTION TO TAKE
81	CHECK SYSTEM OPERATION Start engine. Set the A/C control MAX A/C. Check battery voltage (if not 12.5 volts or more, refer to Charging System Diagnosis). Does clutch engage?	Yes		Circuit functioning properly GO to B2.
B2	BY-PASS PRESSURE SWITCH Disconnect electrical connector from pressure switch on accumulator. Jumper the harness connector pins. Engine must be running and system set at MAX A/C.	Yes No	▶	GO to B3. GO to B4.
	Does clutch engage?			MBTEYEDROBKE VA
B3 (6.25)	CHECK REFRIGERANT SYSTEM PRESSURES Connect gauge set to service ports and observe pressure. Does pressure measure above 50 psi?	Yes	544LiO	REPLACE clutch cycling pressure switch. GO to B1. CHECK refrigerant system for leaks. SERVICE leak test and charge as necessary. GO to B1.
B4	CHECK VOLTAGE AT PRESSURE SWITCH	s. Is la not Rolesta Briglestee ve	MO36 164	old roearcoel() - 6
Stek bok ejen	 Check for battery voltage at pressure switch electrical connector 348 circuit (LG/P wire) to ground. Is there battery voltage? 	Yes Shadlade Ling SS No		GO to B8. GO to B5.
В5	CHECK A/C CONTROL SWITCH		1	
gnito Juni	Check for battery voltage at the A/C control switch 348 circuit (LG/P wire). Is there voltage?	Yes		SERVICE wiring as necessary. GO to B1.
В6	CHECK EATC OR CONTROL ASSEMBLY OUTPUT VOLTAGE	NO		GO to B6.
+9.032.i.	 Check for battery voltage at: EATC Control Assembly Pin 25 (clutch output signal). A/C Control Assembly output. Is there voltage? 	Yes		CHECK circuit between control assembly and pressure switch for open. SERVICE as necessary. GO to B1.