

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A
A/C COMPRESSOR CLUTCH CIRCUIT DIAGNOSIS (Continued)

TEST STEP	RESULT	ACTION TO TAKE
A3 CHECK REFRIGERANT SYSTEM PRESSURES		
<ul style="list-style-type: none"> ● Connect gauge set to service ports and observe pressure. Reading should be above 50 psi. ● Is pressure above 50 psi? 	Yes	REPLACE clutch cycling pressure switch. GO to A1.
	No	CHECK refrigerant system for leaks. SERVICE as necessary. GO to A1.
A4 CHECK VOLTAGE AT PRESSURE SWITCH		
<ul style="list-style-type: none"> ● Check for battery voltage at pressure switch electrical connector Circuit 348 (LG/P). ● Is there voltage? 	Yes	GO to A8.
	No	GO to A5.
A5 CHECK EATC CONTROL ASSEMBLY OUTPUT VOLTAGE		
<ul style="list-style-type: none"> ● Check battery voltage at: <ul style="list-style-type: none"> — EATC Control Assembly Pin 25 (clutch signal output). — Circuit 348 (LG/P) of A/C Control Assembly. ● Is there voltage? 	Yes	CHECK circuit between control assembly and pressure switch for open. SERVICE as necessary. GO to A1.
	No	GO to A6.
A6 CHECK CONTROL ASSEMBLY INPUT VOLTAGE		
<ul style="list-style-type: none"> ● Check for battery voltage at: <ul style="list-style-type: none"> — Pin 26 of EATC Control Assembly (clutch signal). — Circuit 295 (LB/PK) at A/C Control Assembly. ● Is there voltage? 	Yes	REPLACE control assembly.
	No	GO to A7.
A7 CHECK FUSE		
<ul style="list-style-type: none"> ● Check for voltage at fuse panel Circuit 295 (LB/PK). ● Ignition switch must be in the ACC or RUN position. 	Battery voltage present	SERVICE wiring to control assembly. GO to A1.
	Voltage less than 10 volts	CHECK charging system operation and for high resistance in circuit.
	No voltage	CHECK fuse. SERVICE circuit as required. CHECK diode in CCRM for short (Pins 16 and 23). GO to A1.
A8 CHECK CLUTCH CIRCUITS		
<ul style="list-style-type: none"> ● Check for voltage across harness connector at clutch field coil. ● Is there at least 10 volts? 	Yes	GO to A9.
	No	GO to A11.
A9 JUMP FIELD COIL		
<ul style="list-style-type: none"> ● Disconnect field coil and jump battery voltage and ground to clutch field coil. ● Does clutch engage? 	Yes	CLEAN coil electrical terminals and RETEST.
	No	GO to A10.
A10 CHECK CLUTCH AIR GAP		
<ul style="list-style-type: none"> ● Check air gap between clutch hub and pulley. ● Is air gap within specifications? 	Yes	REPLACE clutch field coil.
	No	RESET air gap (REFER to applicable Compressor and Clutch Section). GO to A9.
A11 CHECK CCRM OUTPUT VOLTAGE		
<ul style="list-style-type: none"> ● Check for voltage between Pins 16 and 23 of the CCRM. ● Is there at least 10 volts? 	Yes	CHECK clutch coil wiring harness for open circuit. SERVICE as necessary. GO to A1.
	No	GO to A12.