DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST B:
A/C CLUTCH CIRCUIT DIAGNOSIS (Continued)

TEST STEP	RESULT ▶	ACTION TO TAKE

B7   CHECK FUSE
  ● Check for voltage at fuse panel 295 circuit (LB/PK wire). Ignition switch must be in the run position.
  ● Ignition switch must be in the run position.
  ● **Is there voltage?**
	Yes ▶
	
	Less than 10 volts ▶
	
	No ▶
		SERVICE wiring between control assembly and fuse. **GO to B1.**
		CHECK charging system operation and for high resistance in clutch circuit.
		CHECK fuse. SERVICE circuit as required. CHECK diode in IRCM for short. (Pins 16 and 23). **GO to B1.**

B8   CHECK CLUTCH CIRCUITS
  ● Check for voltage across harness connector at clutch field coil.
    — A minimum of 10 volts is required.
  ● **Are there 10 volts or more?**
	Yes ▶
	No ▶
		GO to B9.
		GO to B11.

B9   JUMP FIELD COIL
  ● Disconnect field coil and jump battery voltage and ground to clutch field coil.
  ● **Does clutch engage?**
	Yes ▶
	
	No ▶
		CLEAN coil electrical terminals and RETEST.
		GO to B10.

B10   CHECK CLUTCH AIR GAP
  ● Check air gap between clutch hub and pulley.
  ● **Is air gap within specified limits?**
	Yes ▶
	
	No ▶
		REPLACE clutch field coil.
		RESET clutch air gap (see compressor section of shop manual). **GO to B10.**

B11   CHECK IRCM OUTPUT VOLTAGE
  ● Check for voltage between Pins 16 and 23 of the IRCM.
    — A minimum of 10 volts is required.
  ● **Is voltage present?**
	Yes ▶
	
	No ▶
		CHECK clutch coil wiring harness for open circuit. SERVICE as necessary. **GO to B1.**
		GO to B12.

B12   CHECK CLUTCH SIGNAL AT IRCM
  ● Check for minimum of 11 volts at Pin 21 of the IRCM (clutch input signal).
  ● **Is voltage present?**
	Yes ▶
	No ▶
		GO to B13.
		CHECK circuit between pressure switch and Pin 21 of IRCM for open. SERVICE as necessary.

B13   CHECK A/C CUT-OUT SIGNAL
  ● Remove RED wire from Pin 22 of IRCM harness connector. Start engine and set system set at MAX A/C.
  ● **Does the clutch energize?**
	No ▶
	Yes ▶
		REPLACE the IRCM.
		GO to B14.