DIAGNOSIS AND TESTING (Continued)

Refrigerant System Pressure and Clutch Cycle Timing Evaluation Chart—Fixed Orifice Tube/Clutch **Cycling Pressure Switch**

REFRIGERANT SYSTEM PRESSURE AND CLUTCH CYCLE TIMING EVALUATION CHART FOR FIXED ORIFICE TUBE CYCLING CLUTCH SYSTEMS

NOTE: System test requirements must be met to obtain accurate test readings for evaluation. Refer to the normal refrigerant system pressure/temperature and the normal clutch cycle

HIGH DISCHARGE) PRESSURE	LOW (SUCTION) PRESSURE	CLUTCH CYCLE TIME (b)			COMPONENT CAMER
		RATE	ON	OFF	COMPONENT — CAUSES
HIGH	HIGH	CONTINUOUS RUN			CONDENSER — Inadequate Airliow Refrigerant overcharge
нідн	NORMAL TO HIGH				ENGINE OVERHEATING
NORMAL TO HIGH	NORMAL				REFRIGERANT OVERCHARGE (a) AIR IN REFRIGERANT. HUMIDITY OR AMBIENT TEMP. VERY HIGH (b).
NORMAL	HIGH				FIXED ORIFICE TUBE — Missing. O-Rings Leaking/Missing
NORMAL	NORMAL	SLOW OR NO CYCLE	LONG OR CONTINUOUS	NORMAL OR NO CYCLE	MOISTURE IN REFRIGERANT SYSTEM EXCESSIVE REFRIGERANT OIL
NORMAL	LOW	SLOW	LONG	LONG	CLUTCH CYCLING SWITCH —
NORMAL TO LOW	HIGH				Compressor — Low Performance
NORMAL TO LOW	NORMAL TO HIGH	ose thata bas tokens			A/C SUCTION LINE — Partially Restricted or Plugged (c)
			SHORT	NORMAL	EVAPORATOR - Low or Restricted Airflow
NORMAL TO LOW	reddy haen ie Gaere ac acheronae ie cocure ac	en leom word Long stoedil e L _{ied sy} FAST op n a AST it dad	SHORT TO VERY SHORT	NORMAL TO LONG	CONDENSER, FIXED ORIFICE TUBE, OR A/C LIQUID LINE — Partially Restricted or Plugged
			SHORT TO VERY SHORT	SHORT TO VERY SHORT	LOW REFRIGERANT CHARGE
oo-689 si	onibelä —		SHORT TO VERY SHORT	LONG	EVAPORATOR CORE — Partially Restricted or Plugged
NORMAL TO LOW	LOW CONTINUOUS RUN		RÚN	A/C SUCTION LINE — Partially Restricted or Plugged. (d): CLUTCH CYCLING SWITCH — Sticking Closed	
ERRATIC OPERATION OR COMPRESSOR NOT RUNNING					CLUTCH CYCLING SWITCH — Dirty Contacts or Sticking Open. POOR CONNECTION AT A/C CLUTCH CONNECTOR OR CLUTCH CYCLING SWITCH CONNECTOR. A/C ELECTRICAL CIRCUIT ERRATIC — See A/C Electrical Circuit Wiring Diagram A/C Cut Out — By Engine Control Assembly (ECA)
		ASSOCIA	DDITIONAL POS	SIBLE CAUSE	COMPONENTS PRESSOR OPERATION
	● CL	OMPRESSOR LUTCH COIL (ONTROL ASSI	DRIVE BELT — Open — Shorted, EMBLY SWITCH	Loose © COMPF or Loose Mounti — Dirty Contact ich Resistance	RESSOR CLUTCH — Slipping
		А	DDITIONAL POS	SIBLE CAUSE	COMPONENTS
	⊚ Çi	UTCH CYCL	ING SWITCH -	Sticking Closed	l or Compressor Clutch Seized Oil Bleed Hole Plugged

- SUCTION ACCUMULATOR DRIER Refrigerant Oil Bleed Hole Plugged
 REFRIGERANT LEAKS
- (a) Compressor may make noise on initial run. This is slugging condition caused by excessive liquid refrigerant (b) Compressor clutch may not cycle in ambient temperatures above 80 °F depending on humidity conditions.
- (c) Low pressure reading will be normal to high if pressure is taken at accumulator and if restriction is downstream of service access
- (d) Low pressure reading will be low if pressure is taken near the compressor and restriction is upstream of service access valve.

CCL 2861-C