

# A/C COMPRESSOR SERVICING

## 1998 Toyota Supra

### 1998 A/C Compressor Servicing

Avalon, Camry, Celica, Corolla, Land Cruiser, RAV4, Sienna,  
Supra, Tacoma, Tercel, T100 & 4Runner

## A/C COMPRESSOR APPLICATIONS

### A/C COMPRESSOR APPLICATION TABLE

Application	Compressor
Avalon	Nippondenso 10PA17C 10-Cyl.
Camry	Nippondenso 10PA17C 10-Cyl.
Celica	Nippondenso 10PA17C 10-Cyl.
Corolla	Nippondenso 10PA15 10-Cyl.
Land Cruiser	Nippondenso 10PA17 10-Cyl.
RAV4	Nippondenso Scroll
Sienna	Nippondenso 10PA17 10-Cyl.
Supra	Nippondenso 10-Cyl.
Tacoma	Nippondenso 10PA17 10-Cyl.
Tercel	Matsushita Scroll
T100	Nippondenso 10PA15 10-Cyl.
4Runner	Nippondenso 10PA17 10-Cyl.

NOTE: Due to variety of clutch and shaft seal configurations, obtain appropriate A/C compressor service tools for compressor being serviced.

## MATSUSHITA SCROLL

### CLUTCH COIL

#### Removal & Installation

1) Using Pressure Plate Holder (07112-76050) and socket, remove pressure plate center bolt. Thread Puller (07112-66040) onto pressure plate. Hold pressure plate with pressure plate holder and tighten puller to remove pressure plate.

2) Remove shim(s) from shaft. Remove snap ring and, using a plastic hammer, tap pulley off. Remove screw for clutch coil lead. Remove snap ring and clutch coil. See Fig. 1.

3) To install, reverse removal procedure. Install snap rings with beveled side facing up. Tighten pressure plate center bolt to 108 INCH lbs (12 N.m). Using feeler gauge, ensure air gap between pressure plate and pulley is 0.014-0.026" (0.35-0.65 mm). If air gap is incorrect, add or remove shim(s) as necessary.

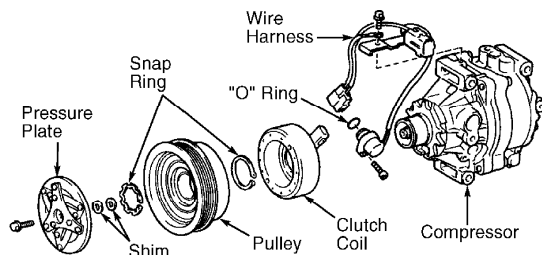


Fig. 1: Exploded View Of Compressor (Matsushita Scroll)  
Courtesy of Toyota Motor Sales, U.S.A., Inc.

## NIPPONDENSO

### CLUTCH COIL

#### Removal

1) Hold clutch plate stationary, and remove clutch plate center nut or bolt. Remove clutch plate using Clutch Plate Remover (07112-66040).

2) Remove shim(s) and pulley snap ring. See Fig. 2, 3, or 4. Tap pulley off compressor shaft using a plastic hammer. If pulley cannot be removed, use a 2-jaw or 3-jaw puller. Position puller jaws onto edge of pulley to prevent pulley groove from being deformed. Disconnect clutch coil lead. Remove clutch coil snap ring and clutch coil.

#### Installation

1) To install, reverse removal procedure. Ensure clutch coil is positioned correctly. Ensure NEW snap rings are installed with beveled side facing out. Tighten clutch plate center bolt to 115 INCH lbs. (13 N.m).

2) Ensure air gap between clutch plate and pulley is 0.014-0.026" (0.35-0.65 mm). If air gap is incorrect, add or remove shim(s) as necessary.

NOTE: On some compressors, it is necessary to use a dial indicator on clutch plate to check air gap. Energize clutch coil and zero dial indicator. De-energize clutch coil and measure air gap. Ensure air gap is as specified.

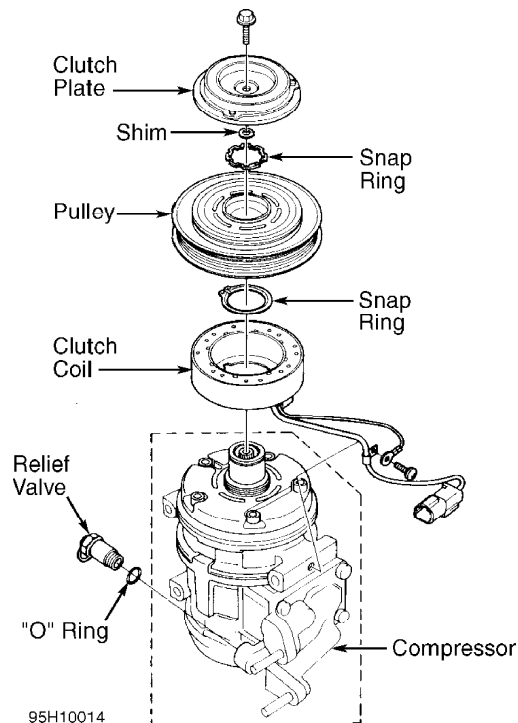


Fig. 2: Exploded View Of Compressor (Nippondenso 10-Cyl. - Typical)  
Courtesy of American Honda Motor Co., Inc.

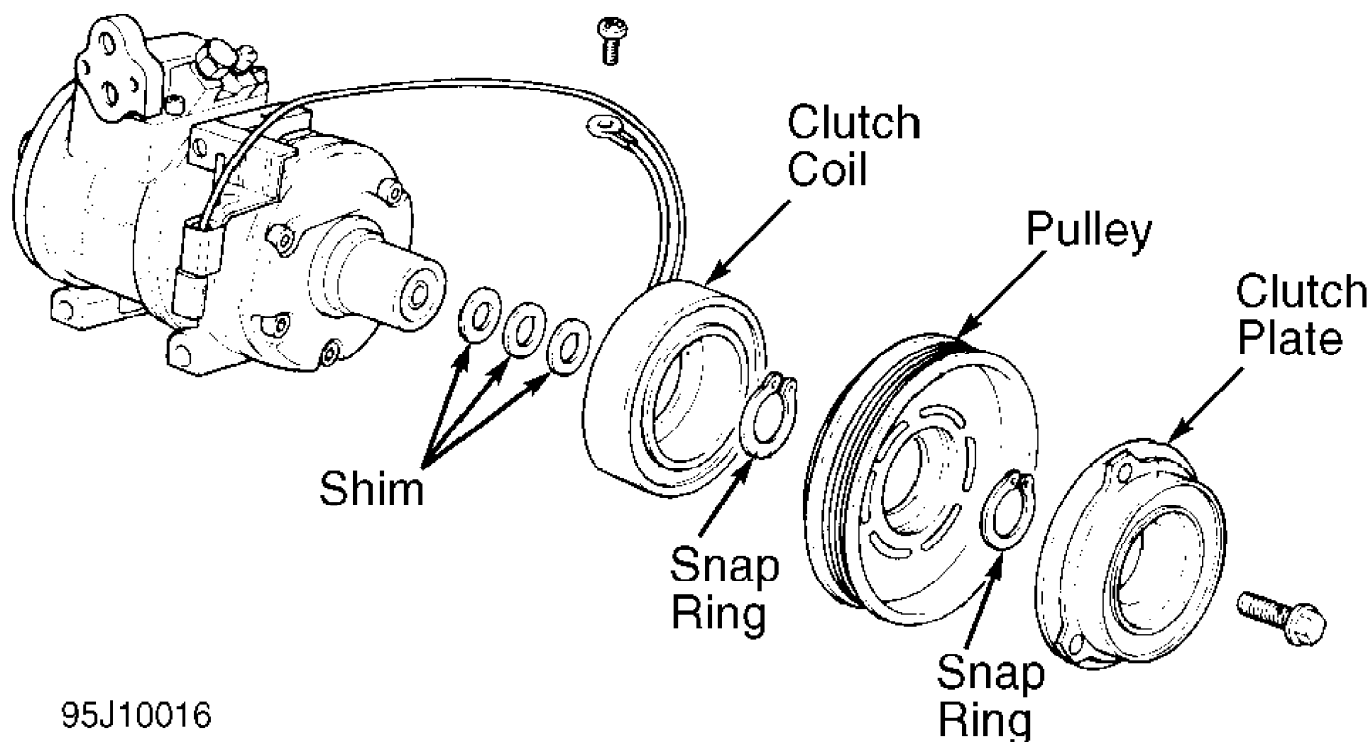
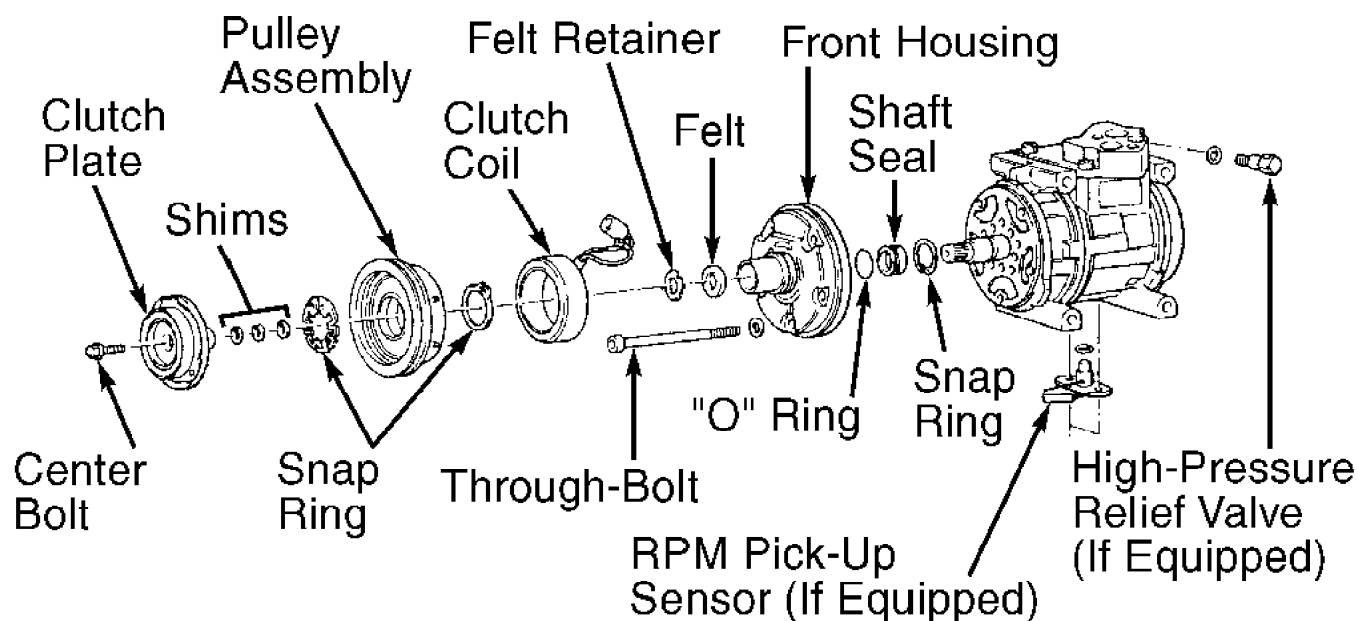


Fig. 3: Exploded View Of Compressor (Nippondenso 10PA17C 10-Cyl.)  
 Courtesy of Toyota Motor Sales, U.S.A., Inc.



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Fig. 4: Compressor (Nippondenso 10PA17C 10-Cyl. Shown)  
 Courtesy of Mitsubishi Motor Sales of America.

#### SHAFT SEAL

NOTE: Most manufacturers do not provide compressor shaft seal replacement procedure. If shaft seal oil leak is excessive and/or refrigerant is leaking, compressor must be replaced.

A small amount of refrigerant oil leakage from compressor shaft seal is normal.