

# A/C COMPRESSOR SERVICING

## Article Text

1994 Suzuki Swift

For Xeon

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### ARTICLE BEGINNING

1994 AIR CONDITIONING & HEAT  
Suzuki A/C Compressor Servicing

Samurai, Sidekick, Swift

#### \* PLEASE READ THIS FIRST \*

NOTE: Due to late changes, always refer to underhood A/C specification label in engine compartment or A/C compressor label while servicing A/C system. If A/C Specification label and specifications in this article differ, always use label specifications.

### COMPRESSOR APPLICATION

COMPRESSOR APPLICATION TABLE

Application	Compressor
Suzuki .....	Nippondenso 10-Cyl.

### A/C COMPRESSOR REFRIGERANT SPECIFICATIONS

#### REFRIGERANT OIL & REFRIGERANT CAPACITY

REFRIGERANT OIL & R-134a REFRIGERANT CAPACITY TABLE

Application	(1) Oil Ounces	Refrigerant Ounces
Samurai .....	2.0-3.4 .....	(2) 17.6
Sidekick .....	2.0-3.4 .....	21.2
Swift .....	2.0-3.4 .....	(2) 17.6

(1) - Total system capacity, unless otherwise noted.

(2) - Vehicle may use either R-12 or R134a refrigerant. Check underhood A/C specification label or A/C compressor label.

### NIPPONDENSO 10-CYLINDER

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

#### CLUTCH COIL & BEARING

##### Removal

1) Hold clutch plate stationary and remove shaft bolt (or nut). Remove clutch plate using puller.

2) Remove shim(s) from shaft and snap ring. Tap pulley off shaft with plastic hammer. If pulley cannot be removed by hand, use a puller.

3) Remove snap ring, bearing, and seal (if equipped) from pulley. See Fig. 1. Remove screw for clutch coil lead. Remove snap ring and clutch coil.

##### Installation

To install, reverse removal procedure. Ensure snap rings are installed with beveled side facing out. Tighten shaft bolt (or nut) to 10-13 ft. lbs. (14-17 N.m). Ensure air gap between clutch plate and pulley is .014-.026" (.36-.66 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. Apply voltage to clutch coil. Ensure air gap is as specified.

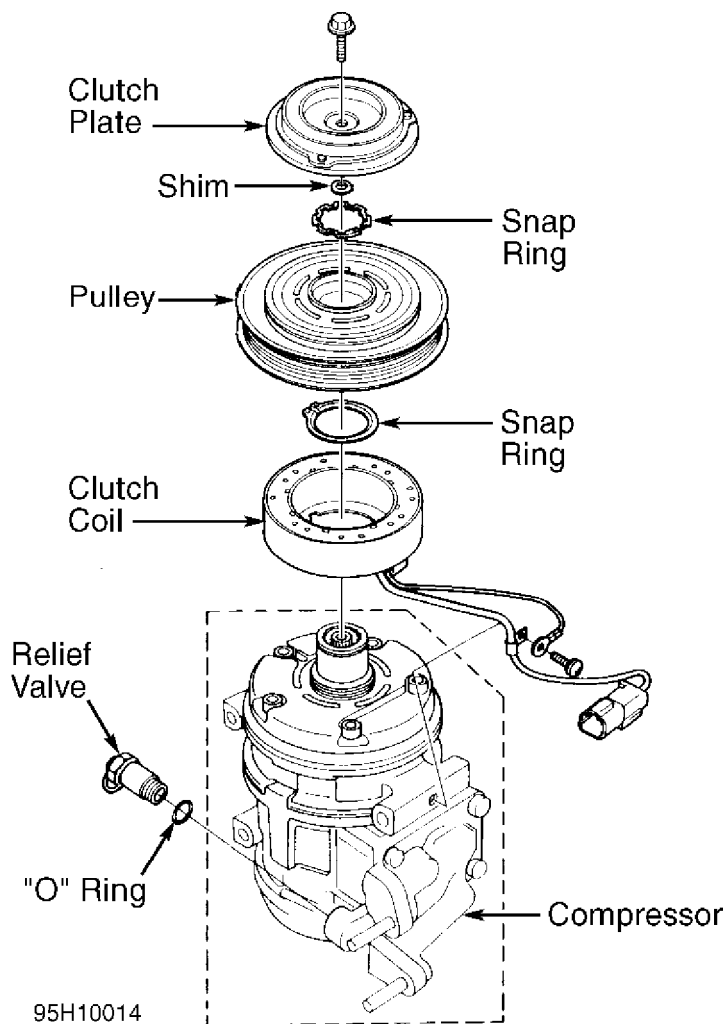


Fig. 1: Exploded View Of Nippondenso 10-Cyl. Compressor (Typical)  
 Courtesy of American Honda Motor Co., Inc.

## SHAFT SEAL

### Removal

1) Remove clutch plate and pulley. Remove shim(s) from shaft. Remove clutch coil if necessary. Remove felt and felt retainer (if equipped). See Fig. 1. Place shaft key remover on shaft and turn to remove key.

2) Remove seal plate snap ring. Engage plate remover on seal plate, and pull up to remove seal plate. Engage shaft seal remover/installer to shaft seal, and pull up to remove shaft seal from front housing.

### Installation

1) Apply clean refrigerant oil to compressor housing bore. Lubricate shaft seal with refrigerant oil and install in front housing. Lubricate seal plate and install in front housing.

2) Install shaft key, snap ring, felt retainer and felt. With clutch plate installed, ensure air gap between clutch plate and pulley is .014-.026" (.36-.66 mm). If air gap is incorrect, add or remove shim(s) as necessary.

**END OF ARTICLE**