



91000-B Deluxe A/C Clutch Hub Puller & Installer

REMOVING PROCEDURE:

1. Remove shaft nut or retaining ring using the Universal Clutch Holding Tool.
* For Hitachi compressors use 91311 spanner plug tool.
2. Thread removing tool onto hub. Position center screw against the end of compressor shaft.
3. Hold body of remover with wrench and turn center screw into remover body to remove clutch hub assembly.

INSTALLING PROCEDURE:

1. Ensure frictional surface of clutch plate and rotor is clean.
2. Align shaft key with shaft keyway and place clutch plate and hub assembly on compressor shaft. **(Do not drive or pound on clutch hub or shaft, as this may cause internal damage to compressor.)**
3. Attach installing tool onto compressor shaft.
(Body of installing tool should be backed off sufficiently to allow center screw to be threaded fully onto end of compressor shaft.)
4. Hold center screw with wrench and tighten hex portion of installer to press hub onto shaft.
5. Tighten body several turns until the air gap between the friction surfaces is .020 - .030"
6. Remove installer and check for proper positioning of shaft key.
7. Install shaft nut or retaining ring. **(Refer to manufacturer specification for correct torque).** * For Hitachi compressors use 91311 spanner plug tool.
8. Spin pulley by hand to check for free operation.



WARNING

- Puller parts can break under stress!
- Wear safety goggles (user and bystanders)!
- Do not heat pullers!
- Do not over stress pullers!
- Be aware of hand positions.
- Read and follow instructions.
- Broken parts can cause injury!
- Avoid contact with refrigerant!

| Compressor Type Used | | | | | | | |
|--------------------------------|--------|--------|---------------|----------|---------------|-------------|-------------|
| Vehicles from (1989 - present) | | | | | | | |
| Make | Nippon | Sanden | York Tecumseh | Harrison | Zexel Hitachi | Seiko Seiki | Diesel Kiki |
| Acura | X | | | | | | |
| American Motors | | X | | | | | |
| Audi | X | | X | | | | |
| BMW | | X | X | | | | |
| Buick | | | | X | | | |
| Cadillac | | | | X | | | |
| Chevrolet | | | | X | | | |
| Chevrolet Truck | | | | X | | | |
| Chrysler | X | | | | | | |
| Dodge | X | | | | | | |
| Dodge Truck | X | X | | | | | |
| Eagle | X | X | | | | | |
| Fiat | | X | | | | | |
| Ford | X | X | | | | | |
| Ford Truck | X | X | | | | | |
| GMC Truck | | | | X | | | |
| Honda | X | | | | | | |
| Hyundai | | X | | | | | |
| Infinity | | | | | X | | |
| Isuzu | | | | X | | | |
| Jaguar | | X | X | X | | | |
| Jeep | | X | X | | | | |
| Lexus | X | | | | | | |
| Lincoln | X | | | | | | |
| Mazda | X | | | | | | |
| Mercedes Benz | | | X | X | | | |
| Mercury | X | | | | | | |
| Mitsubishi | X | | | | | | |
| Nissan | | | | | X | | |
| Oldsmobile | | | | X | | | |



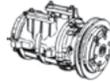
| | | | | | | | |
|----------------|---|---|---|---|---|---|---|
| Plymouth Truck | X | | | | | | |
| Pontiac | | | | X | | | |
| Porsche | | X | X | | | | |
| Renault | | X | | | | | |
| Saab | | | | | | X | |
| Saturn | | | | | X | | |
| Subaru | | X | X | | | | |
| Suzuki | X | | | | | | |
| Toyota | X | | | | | | |
| Volkswagon | X | X | X | | | | |
| Volvo | | | | | | | X |

| Make | Remover | Installer |
|--|----------------------------------|-------------------------------------|
| Harrison GM DA-6, HR-6 & V5 | 91212 Nut & Arbor | 90458 Nut, Bearing & 91260 Arbor |
| A-6 & Earlier R4 | 90454 Nut & Arbor | 90458 Nut, Bearing & Arbor |
| R4 | 90454 Nut & 91195 Arbor | 90458 Nut, Bearing & 91260 Arbor |
| Nippondenso Ford / Chrysler A590, C171 & FS-6 | 91122 Nut & 91212 Arbor | 90458 Nut & 1052-001 Arbor & Washer |
| For FS-6 W / Special 24mm x 2.0 | 91122 Nut & Arbor | 90458 Nut & 1052-001 Arbor & Washer |
| New Style | 90454 Nut & Arbor | 90458 Nut & 1052-001 Arbor & Washer |
| Sanden | 90902 Puller Plate & Arbor | |
| York / Tecumseh HR980 | 91122 Nut & 91212 Arbor | 90458 Nut & 1052-001 Arbor & Washer |
| Zexel / Mitsubishi CH Series | 92260 Arbor & 90902 Puller Plate | |

COMPRESSOR IDENTIFICATION



Chrysler RV2



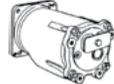
Nippondenso A590



C171



Chrysler Nippondenso Variable Displacement Compressor



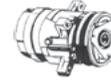
Harrison Axial (A-6)



Harrison Radial (R-4)



Harrison DA-6/HR-6/HE-6



Harrison V-5 Compressor



Sankyo (Sanden) SD508



SD709



6P148



Nippondenso 10P15



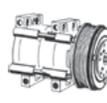
York & Tecumseh



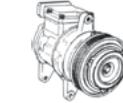
Hitachi



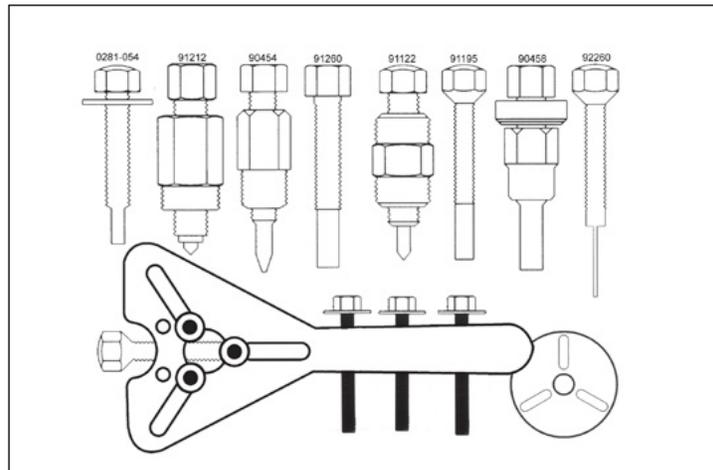
FS-6



Ford FX-15



Nippondenso 10PA17



⚠ **WARNING:** Cancer and Reproductive Harm – www.P65Warnings.ca.gov