

BASIC GENERAL MOTORS COMPRESSOR SEAL SET

This set includes all the specialized tools needed when replacing seals on R4 and A6 compressors

REMOVAL

Secure the clutch end plate from rotating with the **Clutch Holding Tool**. Remove the retaining nut from the compressor end shaft. Install the **Clutch End Plate Remover** and remove the end plate.

Remove the shaft key. Remove the retaining ring that holds the seal assembly in place using the **Internal Retaining Ring Pliers**.

For carbon-type seals, remove the ceramic seal seat using the **Seal Seat Remover/Installer**.

For lip-type seals, remove the seal with the **Seal Remover / Installer**.

Remove the **O-ring** from inside the nose cavity using the **O-ring Remover**.

INSTALLATION

Place the **O-ring Installation Guide** on the compressor shaft, position the new O-ring at the entrance to the cavity and push the O-ring into its groove using the **O-ring / Retaining Ring Installer**. Remove the **O-ring Installation Guide** using the Tongs.

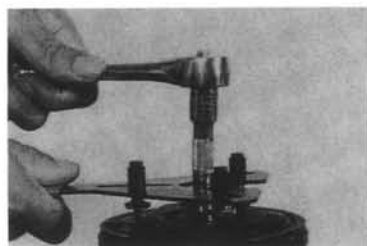
Place the **Seal Protector** over the end of the shaft. For carbon-type seals, place the new seal on the **Seal Remover / Installer** and install the seal. Place the new ceramic seal seat on the **Seal Seat Remover / Installer** and install the seal seat. For lip type seals, place the new seal on the **Seal Seat Remover / Installer** and install the seal.

Place the new retaining ring on the cavity and push it into the groove using the **O-ring / Retaining Ring Installer**.

Install the shaft key. Position the clutch end plate on the shaft and push it into place using the **Clutch End Plate Installer**.

Use the **Clutch Holding Tool** to prevent the shaft from turning and install the retaining nut on the end of the shaft.

Check the air gap with a standard feeler gauge.



CLUTCH HOLDING TOOL



CLUTCH END PLATE REMOVER



INTERNAL RETAINING RING PLIERS



SEAL SEAT REMOVER / INSTALLER



SEAL REMOVER / INSTALLER



O-RING INSTALLATION GUIDE



SEAL PROTECTOR



SEAL SEAT REMOVER / INSTALLER



CLUTCH END PLATE INSTALLER



O-RING / RETAINING RING INSTALLER