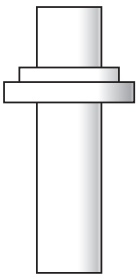
ATI PERFORMANCE PRODUCTS

Installation Instructions

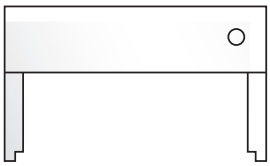
6718 Whitestone Road • Gywnn Oak, MD 21207 • (410) 298-4343
FAX: (410) 298-3579 • www.atiracing.com

DAMPER REBUILDING KITS

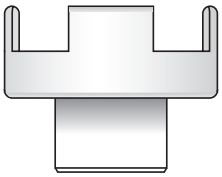
#918998 - Kit for 6" and 7" Dampers
#918998S- Kit for Serpentine and Standard OD Dampers
#918998-5 - Kit for 5.5" Dampers



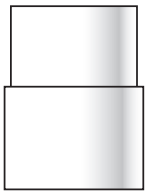
Inertia Ring Removal Shafts
916996 (6" & 7" Dampers)
916984 (5.5" Dampers)



Pusher Frame
for Removing Hub & Inner Shells
916995
Pusher Frame for Std & Serp
Shells **916995C (Optional)**



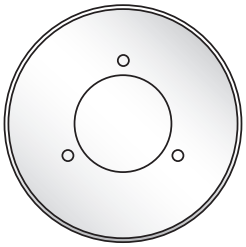
Pusher Frame for Removing
5.5" Hub & Inner Shells
916985



Damper Screw
Loosening Base
916993

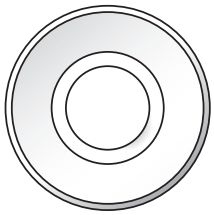
Damper Screw
Loosening Punch **916994**
with Torx Bit **918997**

Damper Assembly
Base Plate
916991

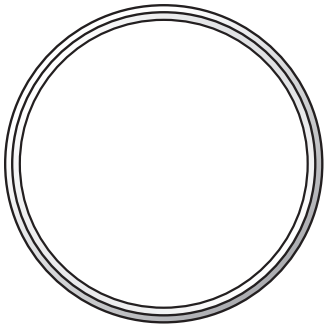


Inner Shell
Removal Base
916998

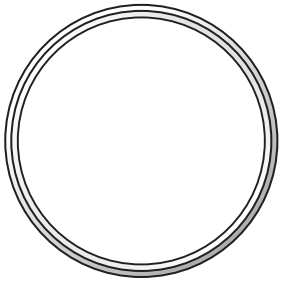
Hub Removal Base
916997



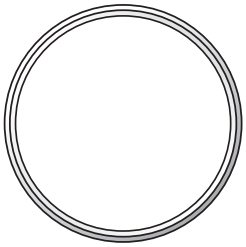
Pusher, Inertia Ring
& Inner Shell
916992



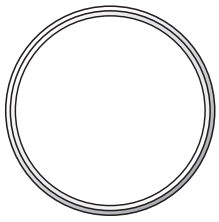
8" Inertia Ring
Guide Fixture
916989
(Optional)



7" Inertia Ring
Guide Fixture
916989
(Optional)



6" Inertia Ring
Guide Fixture
916988
(Optional)



5.5"" Inertia Ring
Guide Fixture
916986
(Optional)

The guide fixtures are similar to the tapered rings used for installing pistons into their bores and help to eliminate O-ring damage when installing the Inertia Ring into the Outer Shell.

PART I - DAMPER DISASSEMBLY

1. Remove all screws from the Super Damper. If screws refuse to turn, place the Damper face up on the Damper Screw Loosening Base (#916993), and strike each screw to stretch the heads using a hammer and the Screw Loosening Punch (#916994) until screws become loose.
2. Place the Hub Removal Base (#916997) on press.
3. Place damper face down, as shown on the Hub Removal Base (#916997).
4. With the Inner Shell Pusher Frame (#916995) around Outer Shell of damper, use press to push hub loose from shell assembly.

Fig. 1

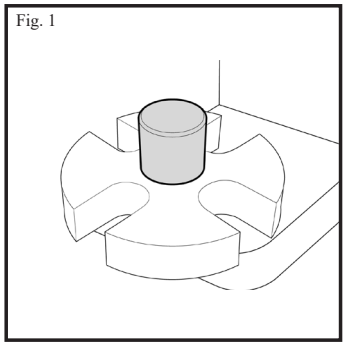


Fig. 2

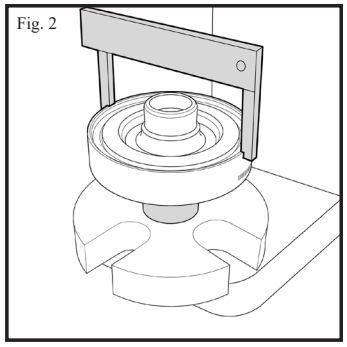
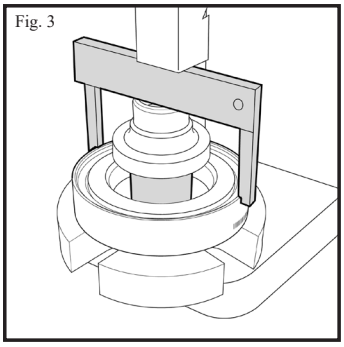


Fig. 3



5. To remove Inner Shell from assembly, place Inner Shell Removal Base (#916998) on press and locate dowel pins into 3 alignment holes of Outer Shell. **DO NOT USE BOLT HOLES** Then press out the Inner Shell using the Pusher Frame (#916995).

Fig. 4

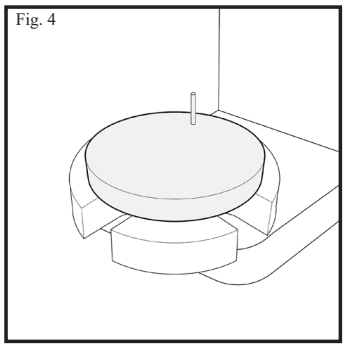


Fig. 5

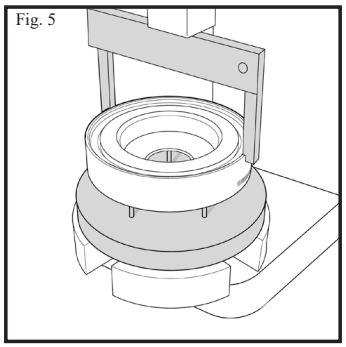
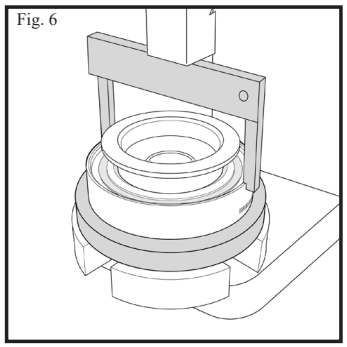


Fig. 6



6. To remove Inertia Ring from Outer Shell insert the Inertia Ring Removal Shaft (#916966) as shown. Grasp firmly and make very firm thrusts until Inertia Ring comes loose.

Fig. 7

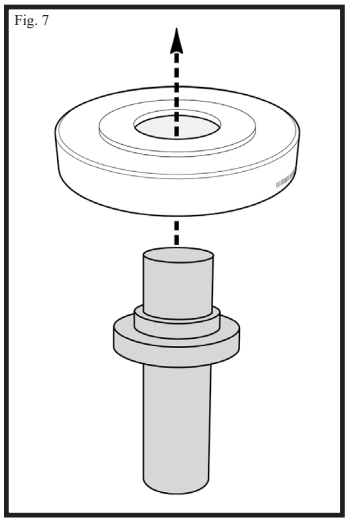
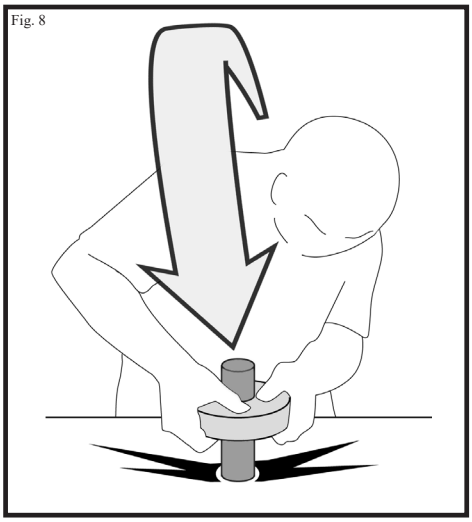


Fig. 8



PART II - DAMPER ASSEMBLY

1. Place the Damper Assembly Base Plate (#916991) on press and insert the dowel into the offset hole on the Outer Shell.

Fig. 9

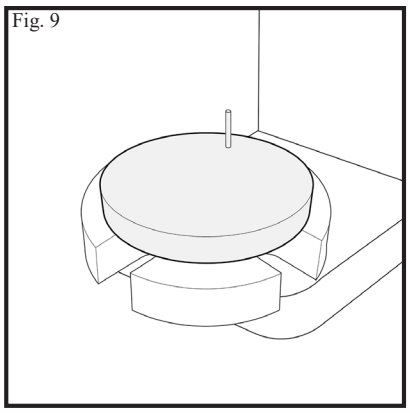
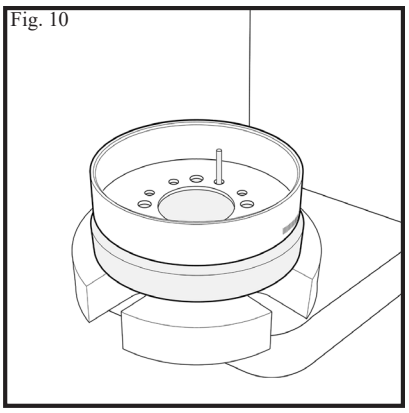


Fig. 10



2. Spray inside of Outer Shell with silicon lubricant. Place Inertia Ring on Outer Shell. Spray Elastomers with silicon lubricant. **DO NOT USE OIL OR ANY PETROLEUM BASED LUBE**
3. Place the Inertia Ring Pusher (#916992) on top of Inertia Ring.
4. Use press to insert inertia ring. Use caution not to pinch any elastomers.

Fig. 11

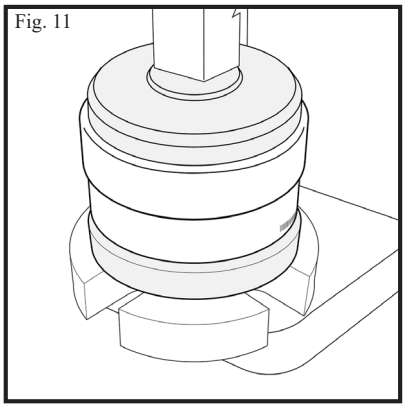
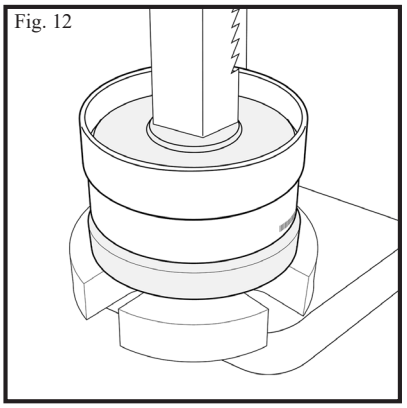


Fig. 12



5. To press Inner Shell into Inertia Ring invert Inertia Ring Pusher (#916992) and place inner shell with offset on dowel and press into place. Spray inner O-Rings & Inner Shell with silicon lube. Locate #916993 and place hub into with offset while facing up. Place fully assembled shell assembly on hub with offset holes lined up.

6. Assemble Damper with Loctite using the following *****
   6 x 5/16" - 18 x 1 Flathead Torx screws..... #951251
   6 x 5/16" - 18 x 3/4 Flathead Torx screws.... #951271
   3 x 3/8 - 16 x 1 1/4 counter bore screw ..... #951330
   3 x 3/8" flat AN washer ..... #953050

*** NOTE: Some installations may require different size screws. Be sure to check with your ATI technician before ordering.**