

WARNING
MACPHERSON STRUT COIL SPRING COMPRESSOR

Any piece of equipment can be dangerous if not operated properly. **YOU** are responsible for the safe operation of this equipment. The operator must carefully read and follow any warnings, safety signs and instructions provided with or located on the equipment. Do not remove, defeat, deface or render inoperable any of the safety devices or warnings on this equipment. **IF** any safety devices or warnings have been removed, defeated, defaced or rendered inoperable, **DO NOT USE THIS EQUIPMENT!!!**

This TOOL has and creates Multiple Pinch Points. It may come lose with Extreme Force. There is a chance of parts being shot at high speeds. This could cause serious injury or death to the operator or bystanders. Keep hands, feet and all other body parts clear at all times.

Never operate equipment of any kind if you are tired or if you are under the influence of alcohol, drugs, medication or any substance that could affect your ability or judgment. Be alert! If you get tired while operating this equipment, take a break. Tiredness may result in loss of control.

Caution! Using this tool requires disassembly of some components of the suspension. If you are not confident you can complete the job safely, have the work performed by a certified technician who is familiar with the front suspension of your vehicle. Failure to reassemble the suspension properly can lead to serious injury or death!

All vehicles are different. Always consult a good shop manual from a reputable company for the exact procedure.

Caution! To prevent personal injury,

- **Wear eye and face protection!**
- **Before repairing a vehicle, block the wheels to prevent the vehicle from moving.** After jacking up the vehicle. **Always** place safety stands in the places recommended in the owner's manual. Never use the jack as the sole means of support.
- **NEVER** get under, or place and body parts under a vehicle that that is held up solely by the jack.

If the person receiving this handout will not be the user of the equipment, forward these instructions to the operator. **IF** there is any doubt as to the operation or safety of the equipment, **DO NOT USE!!! CALL A TOOL SHED IMMEDIATELY!!! FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN INJURY OR DEATH**

OPERATING INSTRUCTIONS
MacPHERSON STRUT COIL SPRING TOOL
BEFORE STARTING THE JOB READ THESE INSTRUCTIONS COMPLETELY

Do not use on General Motors "A", "C", "J" or "X" Body cars.
 Do not use on springs which exceed 6" outside coil diameter.
 Do not use on coil springs having a wire size that exceeds 1/2" diameter.

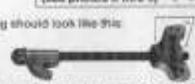
- Always wear safety goggles.
- Refer to vehicle manufacturer's manual on MacPherson Struts and front end servicing for procedures and precautions.
- Before each use inspect, clean and lubricate threads on each bolt.
- Remove any excessive grease and oil that may be on spring.
- Whenever possible, compress or decompress with the spring laying horizontally on a work bench or the floor.
- Compress spring only enough to remove pressure from the spring seats. **NEVER OVERCOMPRESS A COIL SPRING.**
- Always use the safety hooks provided with the tool.
- After each use, clean and store the tool so that threads are not damaged.

1. This tool consists of two legs which have been pre-assembled at the factory and are ready to work for you. Each leg of the tool consists of the following parts:



2 SAFETY HOOK ASSEMBLIES
 (see photos & this #)

2. The assembled leg should look like this:



THE Hex Nuts fully assembled into the holes of Double Hook.

NOTE: Both 1/2" Hex Nuts should be fully assembled in the hex holes of the Double Hook as shown above. If nuts ever become separated from the shaft, reassemble by placing nuts fully into the hex holes of the Double Hook and screw both smoothly into and through each nut.



3. Affix one leg of tool as shown. Hooks on both ends of leg should engage coil spring so that furthest nubs are held by hooks.



4. Be sure that movable hex nuts are threaded onto bolt and sealed in hex holes of double hook as shown. Hand tighten bolt.

instructions continued on reverse side ♦



5. Affix second leg of tool on opposite side of coil spring in same manner as done for first leg. Hand tighten bolt.



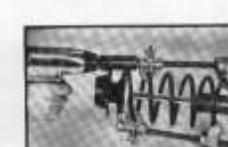
8. Remove Upper Bearing Dust Cap on MacPherson Strut to expose Piston Rod Nut. Remove Piston Rod Nut, Upper Bearing Plate and Upper Coil Spring Seat.



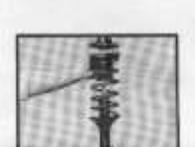
6. Apply safety Hooks to spring with flange and wing nuts. Assemble to each leg and coil spring as shown. Wing nuts should be finger tight.



9. Remove Coil spring in compressed condition and set aside. Shock Absorber is now exposed to be fixed or replaced.



7. Compress coil spring using hand tool or impact gun with 15/16" socket. Turn each bolt alternately so that compression of spring is equal on each side. Compress until the ends of the spring are completely free of the spring seats at each end of the coil. Total compression required is usually not more than 3".



10. Reassemble all components in reverse order. Be sure Coil Spring Seats are reassembled so that they match ends of Coil Spring. Loosen each leg weekly and allow the ends of Coil Spring to contact the seat properly. Remove each leg. Repaired MacPherson Strut is now ready to be reinstalled on vehicle.

Revised 6/7/00