

INSTALLATION INSTRUCTIONS

15793/
15893/
15993
ULTIMATE

TOYOTA LANDCRUISER 300 SERIES

1. Before working on vehicle, ensure vehicle is located on safety stands and is secure.
2. Lower axle or raise body of vehicle until suspension is fully extended.
3. Coil springs must be removed from vehicle. Refer to workshop manual if uncertain of method. Generally, lower shock absorber mounts and maybe panhard rod must be disconnected.

**OBSERVE TENSION ON BRAKE HOSE
- DO NOT STRAIN -**

4. Remove bounce rubbers, from inside coil springs. (Their function will be replaced by the Polyair Kit). Do not remove bounce rubbers fitted under chassis rail.
5. Using a hole saw, drill 44mm (1 3/4") hole in centre of upper spring seat, and deburr. The hole is to accommodate off centre movement of air hose during extended wheel travel.
6. Select a location for the inflation valves. Generally they will run out the back of the vehicle in an easy to reach location. Ask your installing dealer or a Polyair reseller about our easy to install airline brackets. The Polyair kit comes with two inflation valves for dedicated left and right inflation. Make sure that when routing your airline that it is clear of the exhaust system and well protected from any possible foreign objects. Make sure that you have also used the protective split tubing (supplied) over the airline where possible.
7. Determine hose routing & cut adequate length of tube.
LEAVE SUFFICIENT HOSE SLACK TO PREVENT ANY STRAIN ON VALVE STEM DURING NORMAL AXLE MOTIONS.
8. Attach air hose to bag (Refer A, B, C Overleaf) & thread airline through centre of spacer (if supplied).
9. Push air bag into coil with hose / stem at top of coil.
10. Thread hose through hole in top spring seat then re-install coil. (Figure 2).

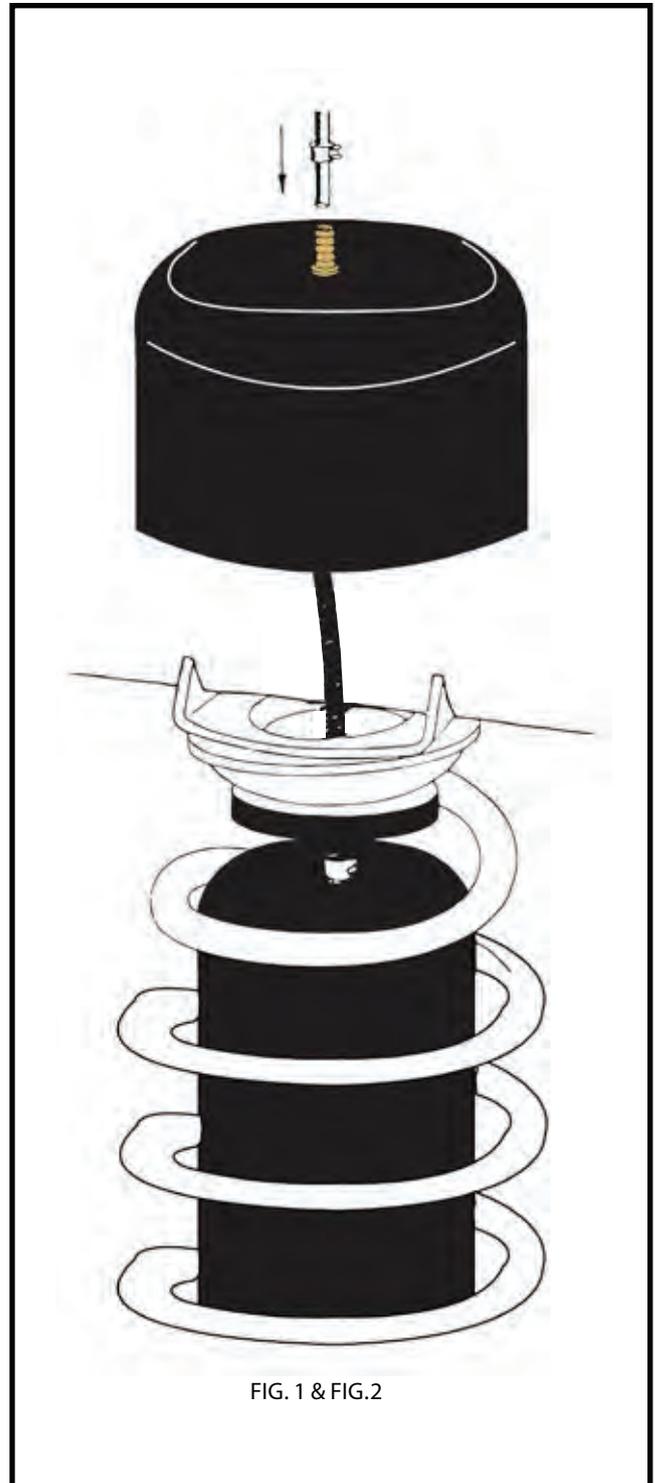


FIG. 1 & FIG.2

- A. Slide metal hose clamp onto cut tubing.
- B. Push the tube onto the stem, covering all the barbs.
- C. Slide the metal hose clamp forward until it fully covers barbed section. Repeat process for right side.
- D. Drill 5/16" (8.0mm) hole for inflation valves and mount as illustrated. (Rubber washer for outside weather seal.) Route tubing along frame to inflation valve location and cut off excess. Secure with plastic straps.
- E. Slide metal hose clamp onto tubing and push tubing onto the fitting, covering all the barbs.
- F. Slide the metal hose clamp forward until it fully covers the barbed section.



FIG.3

DO NOT INFLATE AIR CYLINDERS BEFORE READING INFLATION PROCEDURES.

- G. Raise axle or lower body until air cylinders lightly touch upper and lower spring seats.
- H. Fit the metal heat shield to the exhaust on the passenger side closest to the air bag. See last page for fitting instructions.
- I. Inflate cylinders to 25lbs. (170kpa) air pressure.
- J. Test for air leaks by applying a liquid soap solution to all valve cores, fittings and connections.
- K. Deflate Polyair Springs to determine best ride and handling. Sufficient air pressure must be maintained to help prevent bottoming-out.

AN ABSOLUTE MINIMUM OF 5 PSI MUST BE KEPT AT ALL TIMES.

CAUTION
DO NOT EXCEED VEHICLE MANUFACTURER'S GROSS VEHICLE WEIGHT RATING.

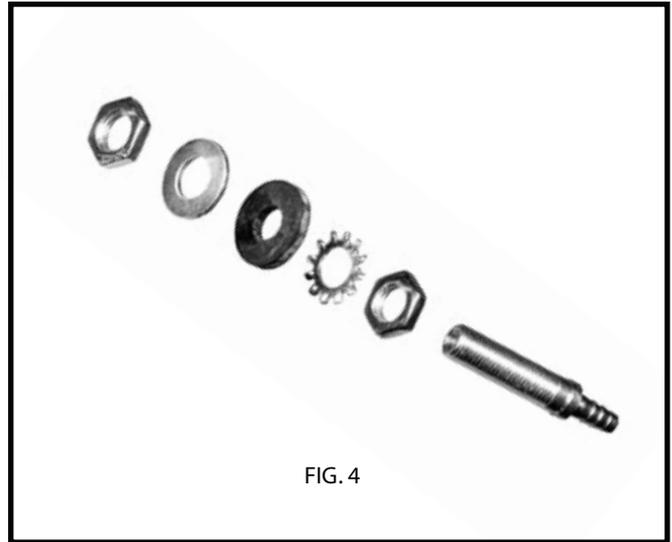


FIG. 4

INITIAL INFLATION PROCEDURES
*** CAUTION •**
INFLATE BEFORE LOADING

TO OPERATE THE AIR SPRING UNITS, INFLATE THE CYLINDERS TO THE PRESSURE INDICATED BELOW.

LOAD THE VEHICLE THEN DECREASE THE PRESSURE UNTIL THE VEHICLE IS LEVEL.

DO NOT ATTEMPT TO RAISE A LOADED VEHICLE BY INFLATING THE AIR SPRINGS IF LOADED.

"JACK" UP BODY OF VEHICLE UNTIL LEVEL. THEN INFLATE TO THE DESIRED PRESSURE.

MINIMUM PRESSURE
5 P.S.I

MAXIMUM PRESSURE
60 P.S.I

MAINTENANCE TIPS

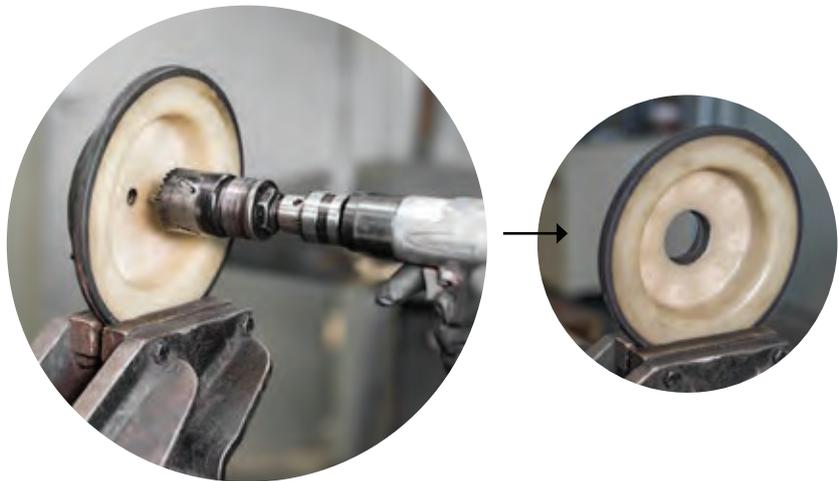
Always maintain at least 5 lbs (38 kpa) air pressure in the Air Springs to prevent chafing. When loading it is good practice to increase the inflation pressure of the tyres in proportion to the load being carried.

Remove spring to release bounce rubber assembly.

Cut rubber cone as shown. Ensure top rubber remains.



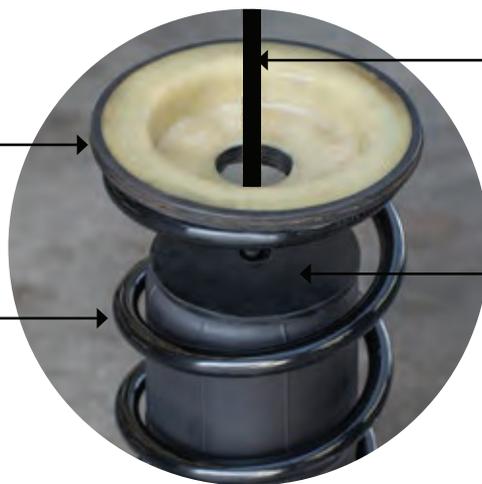
Cut 44mm hole to centre as shown.



Install to vehicle as shown:

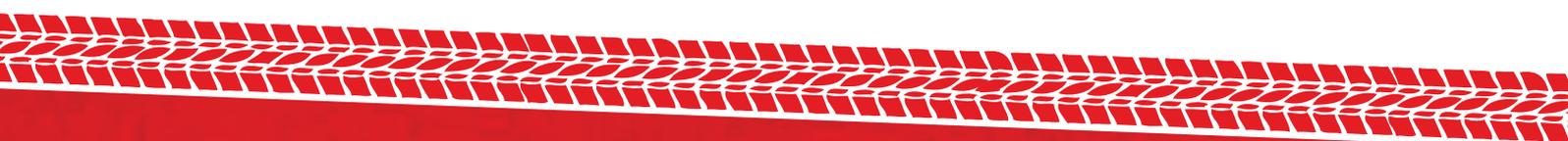
Drilled top assembly

Coil spring



Airline

Protector disc



HEAT SHIELD INSTALLATION

The heat shield is installed on the exhaust pipe at the closest point to the air spring to protect the unit from the radiant heat of the exhaust system.

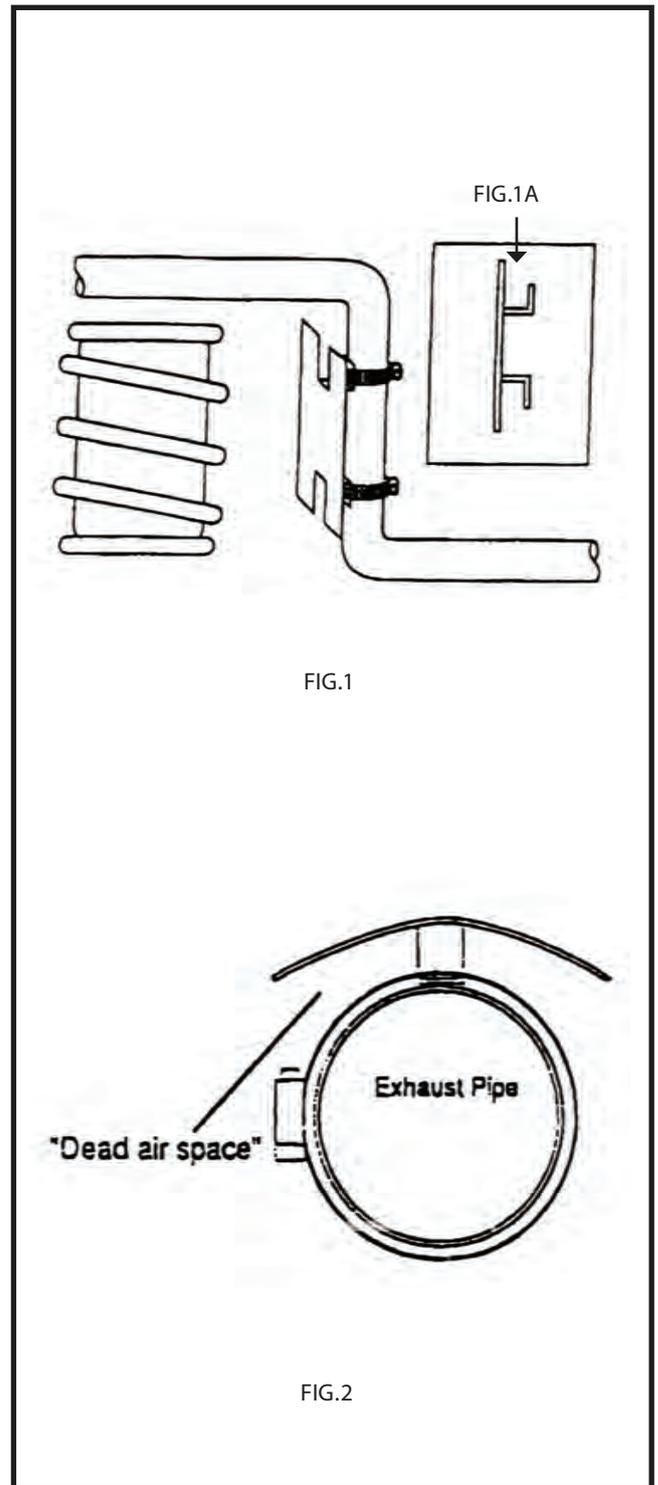
Attach radiator clamps loosely around exhaust pipe nearest to the air spring.

Bend heat shield tab out at a 90 degree angle and again half the distance up at a 90 degree angle to form an 'L' shape. Repeat on other tab (FIG. 1A).

Position heat shield and insert the heat shield tabs beneath the two radiator clamps. Tighten the clamps (FIG. 1).

Bend heat shield to form it around tail pipe. Be sure to maintain a 'dead air' space of ½" to 1" between the tail pipe and the heat shield (FIG 2).

NOTE: MAKE SURE INSTALLATION DOES NOT INTERFERE WITH MOVING PARTS, GAS LINES ETC



Installed example:

