

# Fitting Instructions #0083IS

Mitsubishi Triton 1996-on

***Greasable Front Fixed Pin/Greasable Rear Shackle with Bushes***

***Important Note: These components must be fitted by qualified persons only, to factory specifications, as per factory service manual.***

Before commencing any work, ensure that the kit contains the required componentry (See Table 1).

## Installation Instructions:

- Use a jack to raise the rear of the vehicle and support chassis on vehicle stands or use a hoist to raise vehicle (recommended);
- Remove rear leaf springs as per factory service manual – taking into account the following
  - Disconnect any cables/hoses/sensors that could get overstretched if the axle housing and leaf spring is lowered – check leaf spring and both front and rear of axle housing for;
    - Brake hoses
    - ABS sensor cables
    - Handbrake cables
    - Diff breathers
    - Diff locker cables/hoses/sensors
    - etc
- Remove current bushes from leaf spring
  - If OE bushes are installed:
    - The leaf spring front eye bushes may need to be pressed out by metal shell;
  - If Aftermarket bushes are installed:
    - Press out steel tube (if applicable) from leaf spring front eye and remove bushes;
- Remove current bushes from vehicle rear chassis eyes;
- Remove any debris from chassis eyes and leaf spring eyes and clean with a rag;

**Install the new SuperPro bushings and shackles with the following procedure:**

- See Table 1 for correct bush placement;

### ***Front fixed pin:***

- Screw the grease nipples into the recessed end of the fixed pins and firmly tighten (see figure 1). **DO NOT** over tighten grease nipple as this will damage the thread;
- Place the D-washer on the shank of the pin as per figure 1;
- Lightly grease outer bore of bushes (figure 2) and fit into the front leaf spring eyes;
  - For correct bush placement see Table 1;
- Liberally grease the inside and the ends of the bushes (figure 2) and the shank of the fixed pins;
- Push the steel tubes into the installed front leaf spring eye bushes;

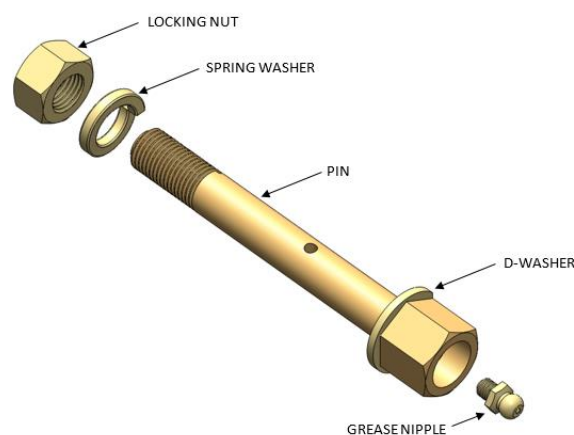


Figure 1: Diagram of fixed pin

- As this is a universal pin, when tightening, ensure that the nut doesn't bottom out on the pin thread before completely tight. Add a flat washer if required.

## Rear swing shackle:

- Screw the grease nipples in the end of each shackle pin and firmly tighten. **DO NOT** over tighten grease nipple as this will damage the thread;
  - Screw and tighten the shackle pins into the threaded holes in the shackle plates as per figure 3;

Note: Actual product may vary; diagram for example only

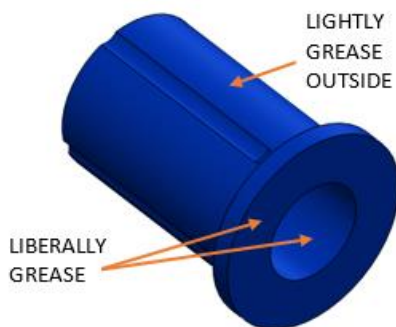


Figure 2: Diagram of bush greasing

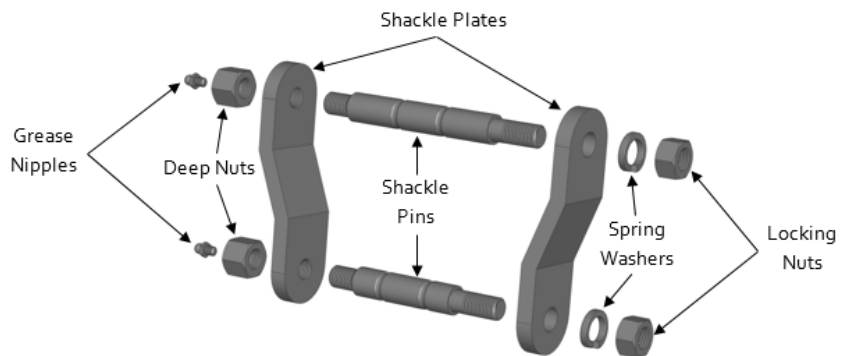


Figure 3: Diagram of swing shackle

- Over the grease nipples, screw the deep nuts and only lightly finger tighten (figure 3);
- Very lightly grease outer bore of bushes (figure 2) and fit into the leaf spring eyes and vehicle chassis;
  - For correct bush placement see Table 1;
- Grease the inside and the ends of the bushes (figure 2) and the surfaces of the shackle pins;

## Re-installation:

**Note:** It is recommended to fit new U-bolts when re-installing the leaf springs.

- Re-install leaf springs as per factory service manual with new SuperPro swing shackle and fixed pin hardware and assemble as per figure 1 and figure 3 – do not fully tighten nuts;
- Re-install any other components that were removed during installation;
- Lower vehicle to the ground and settle the suspension;

**Note:** The front fixed pins and rear swing shackle nuts must be tightened in the following order

- Tighten all locking nuts on front fixed pins to 120 Nm;
- Tighten all locking nuts on rear swing shackles to 90 Nm;
- Tighten all deep nuts on rear swing shackles to 85 Nm;
- Use grease gun with Molygrease to grease all grease nipples.

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**TABLE 1: KIT CONTENTS AND BUSH LOCATION**

|   | Bush Position      |     |                           |     |                            |     |             |                |
|---|--------------------|-----|---------------------------|-----|----------------------------|-----|-------------|----------------|
|   | Upper Rear Chassis |     | Rear Leaf Spring Rear Eye |     | Rear Leaf Spring Front Eye |     | Hardware    |                |
| Kit No.   | Bush No.           | Qty | Bush No.                  | Qty | Bush No.                   | Qty | Shackle Qty | Steel Tube Qty |
| KIT096RSK   | SPF2672            | 4   | SPF2671                   | 4   | -                          | -   | 4           | -              |
| KIT136RSK   | SPF1708            | 4   | SPF1708                   | 4   | -                          | -   | 4           | -              |
| KIT141RSK   | SPF2768            | 4   | SPF2767                   | 4   | -                          | -   | 4           | -              |
| KIT143RSK   | SPF0187            | 4   | SPF1710                   | 4   | -                          | -   | 4           | -              |
| KIT156RSK   | SPF1781            | 4   | SPF1798                   | 4   | -                          | -   | 4           | -              |
| KIT168RSK   | SPF3803            | 4   | SPF3804                   | 4   | -                          | -   | 4           | -              |
| KIT185RSK   | SPF4040            | 4   | SPF2231                   | 4   | -                          | -   | 4           | -              |
| KIT193RSK   | SPF3596            | 4   | SPF3595                   | 4   | -                          | -   | 4           | -              |
| KIT070SK  | SPF2231            | 4   | SPF2231                   | 4   | SPF0972                    | 4   | 4           | 2              |
| KIT083SK  | SPF0187            | 4   | SPF1710                   | 4   | SPF1082                    | 4   | 4           | 2              |
| KIT096SK  | SPF2672            | 4   | SPF2671                   | 4   | SPF2670                    | 4   | 4           | 2              |
| KIT136SK  | SPF1708            | 4   | SPF1708                   | 4   | SPF1163                    | 4   | 4           | 2              |
| KIT141SK  | SPF2768            | 4   | SPF2767                   | 4   | SPF2766                    | 4   | 4           | 2              |
| KIT143SK  | SPF0187            | 4   | SPF1710                   | 4   | SPF1082                    | 4   | 4           | 2              |
| KIT145SK  | SPF0753            | 4   | SPF0502                   | 4   | SPF2670                    | 4   | 4           | 2              |
| KIT156SK  | SPF1781            | 4   | SPF1798                   | 4   | SPF1798                    | 4   | 4           | 0              |
| KIT168SK  | SPF3803            | 4   | SPF3804                   | 4   | SPF3802                    | 4   | 4           | 2              |
| KIT185SK  | SPF4040            | 4   | SPF2231                   | 4   | SPF2670                    | 4   | 4           | 2              |
| KIT193SK  | SPF3596            | 4   | SPF3595                   | 4   | SPF3595                    | 4   | 4           | 0              |
| KIT211SK  | SPF2767            | 4   | SPF2767                   | 4   | SPF2766                    | 4   | 4           | 2              |
| <b>Note: Bush part numbers are embedded in the bush and consist of the last four digits (ie. SPFXXXX)</b> |                    |     |                           |     |                            |     |             |                |