

Z5300 – Universal Spring Eye and Shackle Bushing Install Guide

WARNING: These products are designed for easy installation however installation by a recognized trades person is recommended.

Note: This installation guide should be used in conjunction with the vehicle manufacturers repair manual.

1. Remove the old rubber bushing from the spring eyelet and or chassis eyelet making sure to remove any steel casing that may be part of the original rubber bushing. (there may be a steel ring that is part of the leaf tho – leave this) If an aftermarket bushing has been previously installed then the steel shell may have already been removed. (Refer image 1).
2. Using sand paper remove any rust, old rubber deposits, dirt and paint so a clear inspection of the suspension component can be made prior to any bushing installment. Any damaged, worn or bent components should be repaired or replaced as required.
3. Install the supplied bushing into the cleaned spring or chassis eyelet or both depending on kit contents. (For example refer image 2 and 3).
4. With the supplied bushings now installed into the chassis eyelets or spring eyelets (depending on kit supplied), lubricate the internal bore using the supplied grease making sure to fill all the internal knurling for best service life. Also apply the supplied grease to contact face of the bushings. (Refer image 4 lubrication guide).
5. If center sleeves are supplied in the kit (refer image 2), lubricate the outer surface of the sleeves or shackle pin (some shackle bushings may run directly on the shackle pin, refer image 3) and install into the required bushings.
6. Tension all components to vehicle manufacturer's specifications at normal ride height.
7. Test drive vehicle and recheck all removed components for tension and correct operation.

Representative image of spring eye or chassis eyelet

Original equipment shell style bushing

Note: The design of the supplied bushing kit requires the removal of this steel shell.

Some manufacturers do not use steel shell bushings at this point so the shell would not be required to be removed

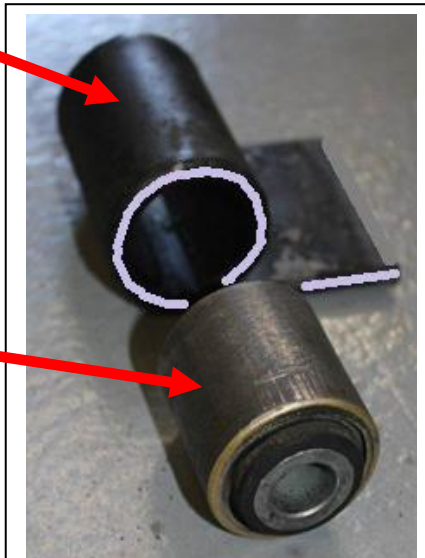


Image 1

Image 2



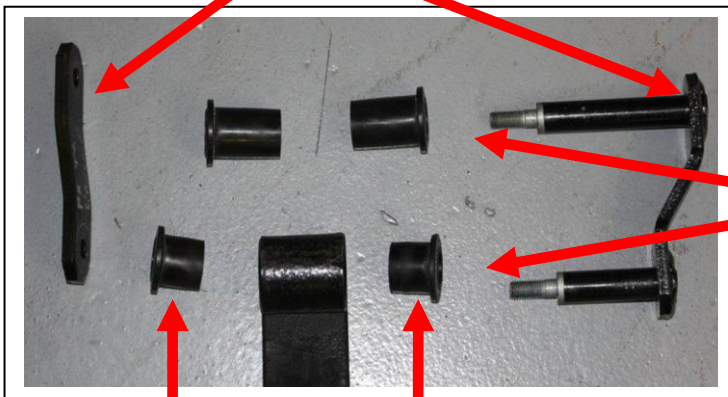
Install the supplied bushings into the spring eye or chassis eye.

Lubricate the outside of the supplied center sleeve

The center sleeve pictured here may or may not be supplied in the bushing kit as some bushings may run directly on the shackle pin or spring eye pin.

Lubricate hardware contact face.

Image 3



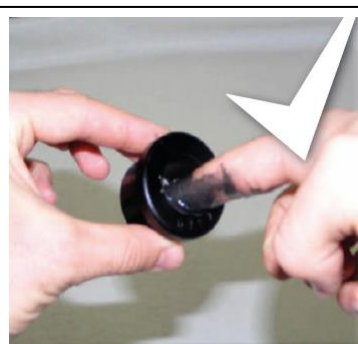
A center sleeve may or may not be required at this point in the bushing kit as some bushings may run directly on the shackle pin or spring eye pin.

Lubricate the internal bore and working face only of the supplied bushing as per instruction sheet and lubrication guide (refer image 4).

Lubrication guide - useful tips on correct grease placement.



Lubricate contact face.



Lubricate internal bore.



Lubricate shackle plate/working surface (hardware if supplied).

Image 4

General Instructions

Leaf Spring - Greasable Shackle kits

It is recommended that a licenced workshop or tradesperson carry out the below procedure and that workshop manual and relevant safety procedures are followed in addition to the above.



Application -

- Ford Ranger/BT-50 - 2006-on
- Holden Colorado/Isuzu D-max 2007-on
- Nissan Navara 2005-on
- Toyota Hilux 2005-on
- Mitsubishi Triton 1996-on

- Raise vehicle evenly and safely support

Never rely on a Jack only

Note - we recommend to service only one side of vehicle at a time. be mindful of brake lines/ABS wires and diff breathers when lowering axle.

- Start by supporting Axle with jack stand or similar.

Check items such as spare tyre is not in the way of rear shackles.

- Lubricate all threads before dismantling
 - U bolts and shackles



- Remove old bushings from leaf spring and chassis

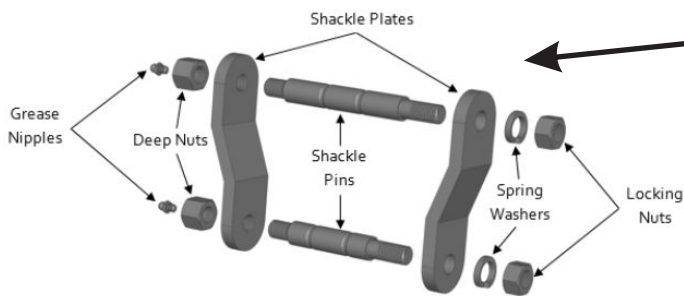
Note - if there is a steel shell present, this will have to be pressed out.

- Clean leaf eye of any grease / dirt / oil.

Refer page 2

General Instructions

Leaf Spring - Greasable Shackle kits



Assembly image of rear shackles.
Note - do not over tighten grease nipples

- Proceed to push in new supplied bushings into clean Eyes.
- Grease bushing internal diameter and side face with supplied grease only.

IMPORTANT - use supplied grease only
Do not use bearing or rubber grease.



- Proceed to push in supplied greasable pin and shackles.

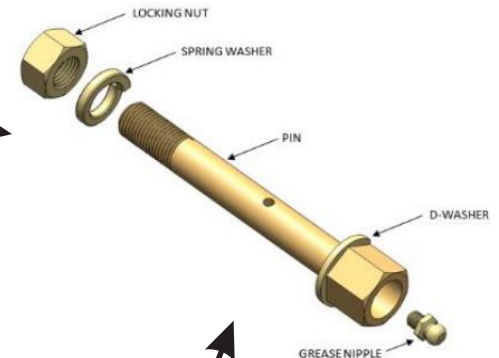
Note - check rear shackle is pushed in from correct side of chassis.

Refer page 3

N.B: It is recommended that a licenced workshop or tradesperson carry out the above procedure and that workshop manual and relevant safety procedures are followed in addition to the above.

General Instructions Leaf Spring - Greasable Shackle kits

Check nut does not bottom out on thread in vehicle
- use an extra washer under nut if required



- Push in new supplied greasable pins.

Check supplied D washer is placed under pin head. Refer assemble image above.

- Tighten all nuts to 120Nm

Note - it is recommended new U-bolts are used when reinstalling leaf springs.

IMPORTANT - all bolts including U bolts must be re-checked after 200kms travelled.

Use only "Moly" grease when re-greasing. Do not use bearing or rubber grease



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