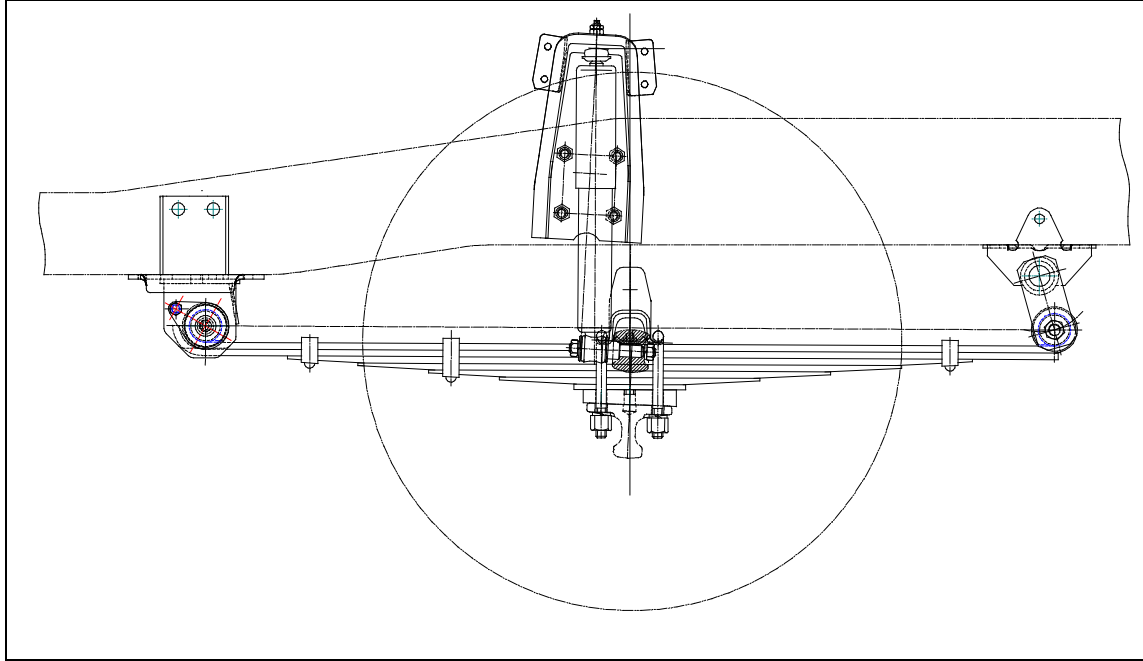


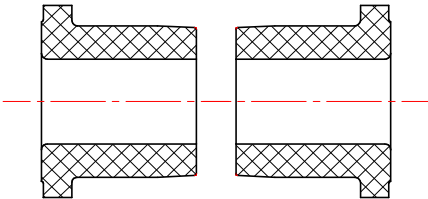
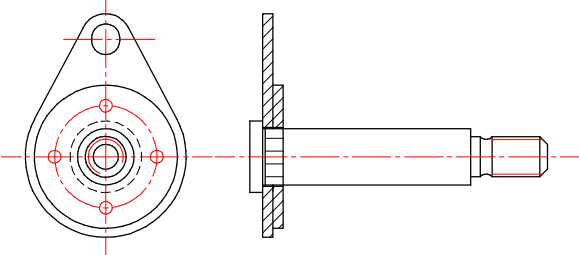
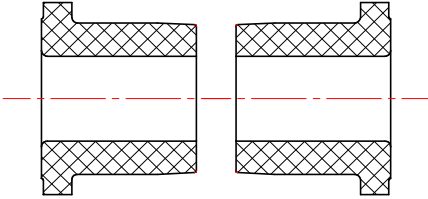
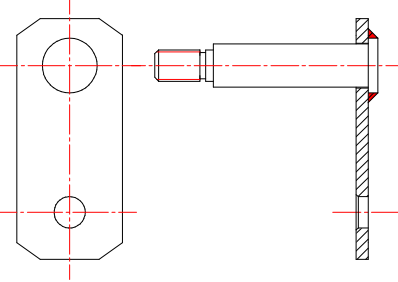
Front suspension

General



Front Suspension

Specifications

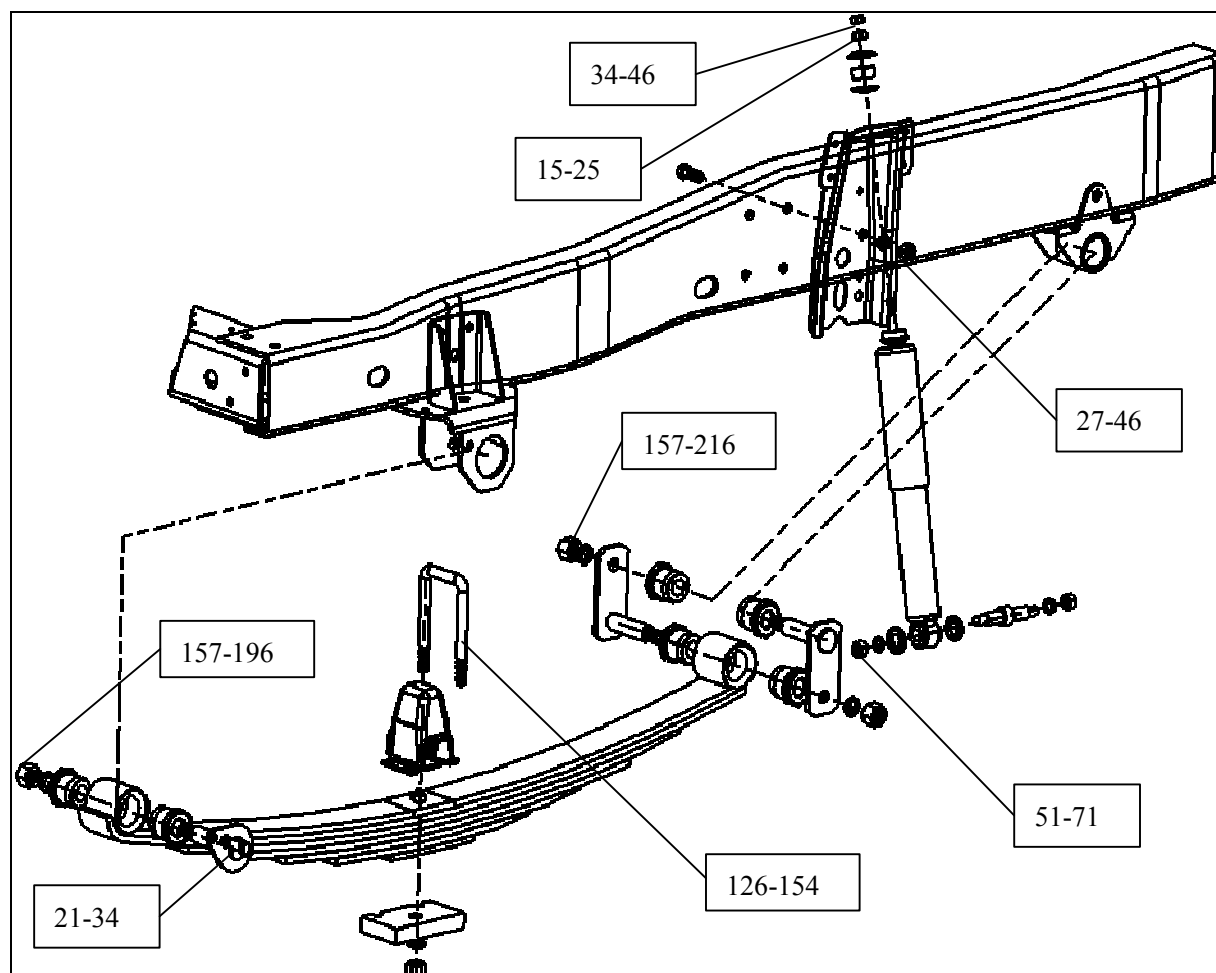
	HFC1042K2
Front suspension	
Spring type	Semi-elliptic blade type leaf spring
Length mm	1140
Width mm	60
Front fixing part	Rubber bushing with flange pin 
Pin type	
Rear fixing bushing type	Metal rubber bushing with flange 
Pin type	
Shock absorber type	Double-acting hydraulic cylinder type

Front Suspension



Tightening torque

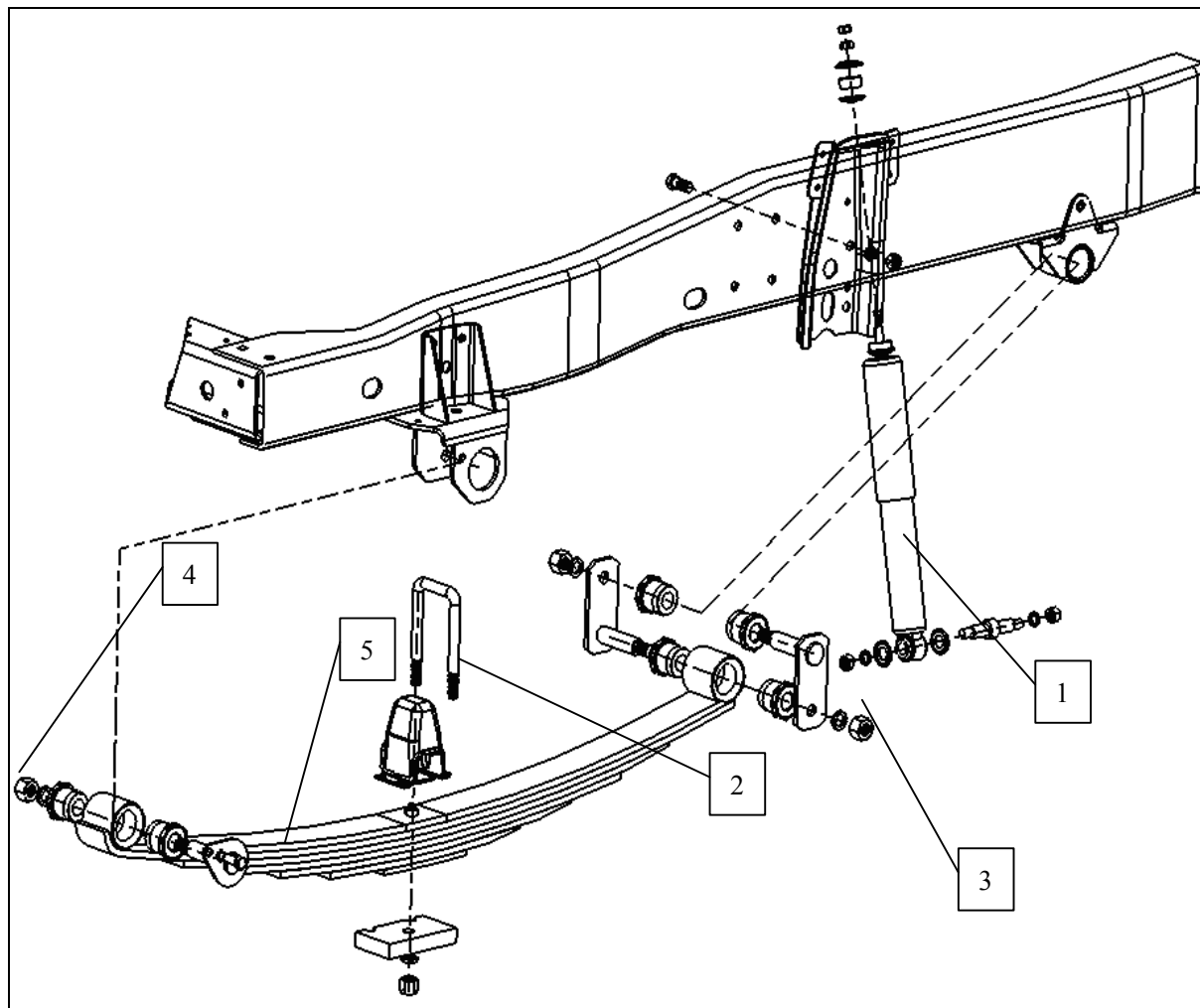
(Unit:N·m)



Front Suspension

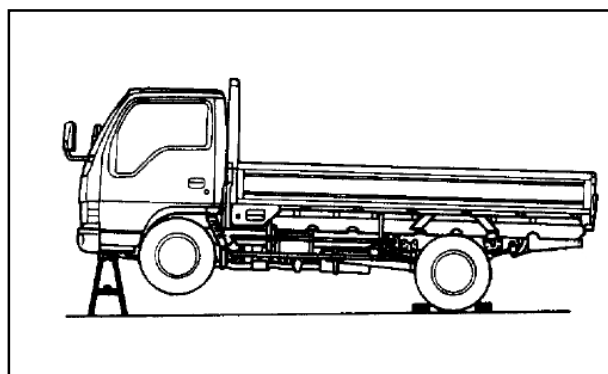


Disassembling



Disassembling sequence

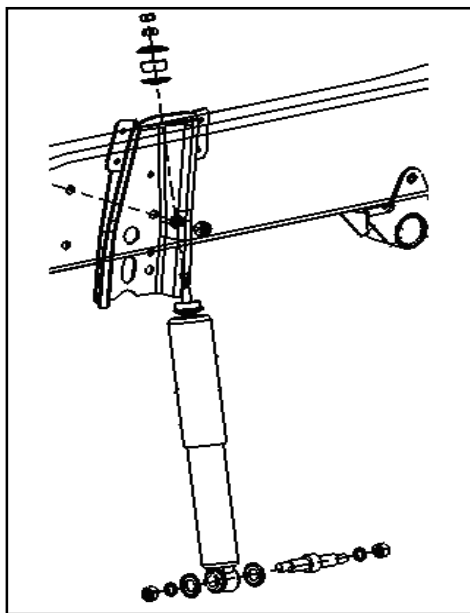
1. Front shock absorber 2. U-bolt 3. Lifting lug pin 4. Fixed pin 5. Leaf spring



Preparations

First, block well the rear wheels, then jack up the vehicle, and then jack up the front axle with a screw jack.

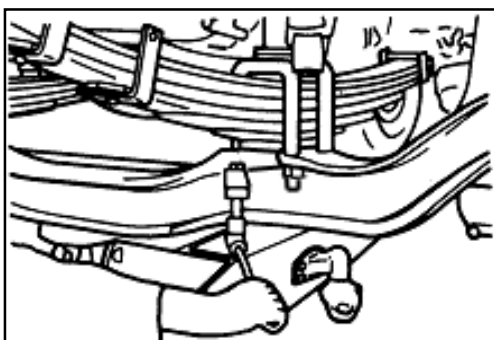
Front Suspension



Important operation-Disassembling

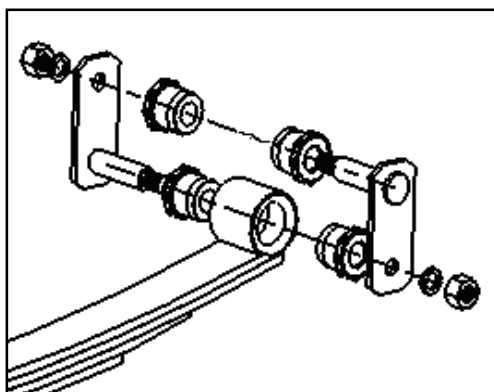
1. Front shock absorber

Disassemble the shock absorber assembly, nut, washer and bearing bush by following the sequence indicated in the diagram.



2. U-bolts

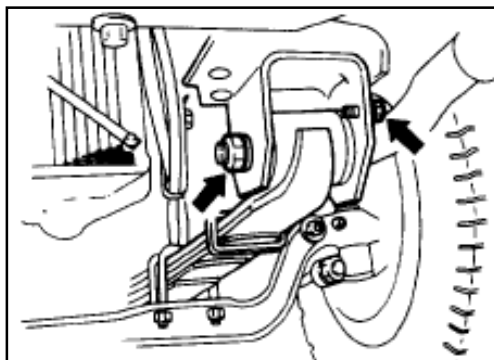
- (1) Loosen U-bolts and nuts (not remove them)
- (2) Lift up the vehicle and rest it on the chassis bracket
- (3) Remove U-bolts and nuts



3. Lifting lug pin



Take care not to damage the thread and leaf spring pin cylindrical surface.



4. Retainer pin



Take care not to damage the thread and leaf spring pin cylindrical surface.

Front Suspension

Leaf spring assembly **Buffer block**
Leaf spring clamp **Shock absorber**
Center bolt **Rubber bushing**
U-bolt
Retainer pin
Lifting lug pin



Inspection and repair:

If excessive wearing or damage is found during inspection, it is necessary to repair or replace the parts.

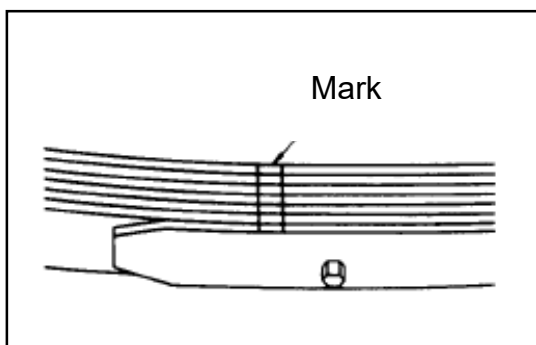


Visual inspection

Inspect the parts listed on the left side visually; if they are damaged or out of use, replace them.

Shock absorber

1. Inspect leakage of shock absorber; little leakage is allowed.
2. After the vehicle has been running for certain amount of distance, inspect whether the temperature of shock absorber has risen; if the temperature has not risen, it means it does not work; so it must be replaced.
3. Stretch the shock absorber; if no resistance is felt, it means the shock absorber does not work; so it must be replaced.
4. Inspect the bushing at both ends of the shock absorber; if they are excessively worn, replace them.

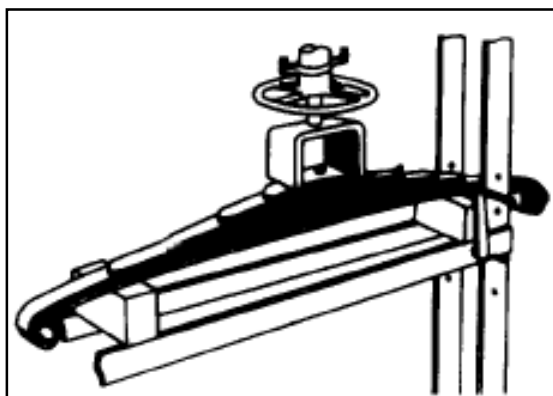


Replacing of leaf spring

1. Before disassembling the leaf spring, make an assembling mark on the side surface.
2. Apply grease on both sides of the leaf spring.
3. When disassembling and reassembling, use bench press.
4. Do not reuse the disassembled center bolt; replace it with a new one.

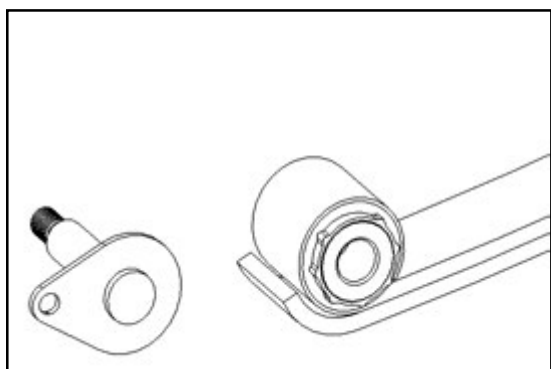
When replacing leaf spring, use the leaf spring marked with "A,B,C" that means the same camber.

Front Suspension



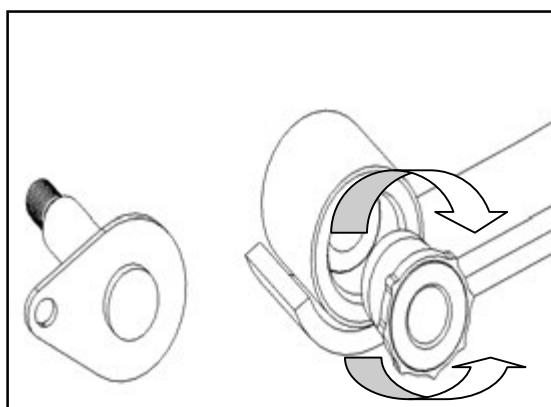
Center bolt

Tightening torque of center bolt: 34-44N.m



Measure the gap between leaf spring bushing and leaf spring pin.

If the gap is more than 1mm, replace the leaf spring bushing or the leaf spring pin.



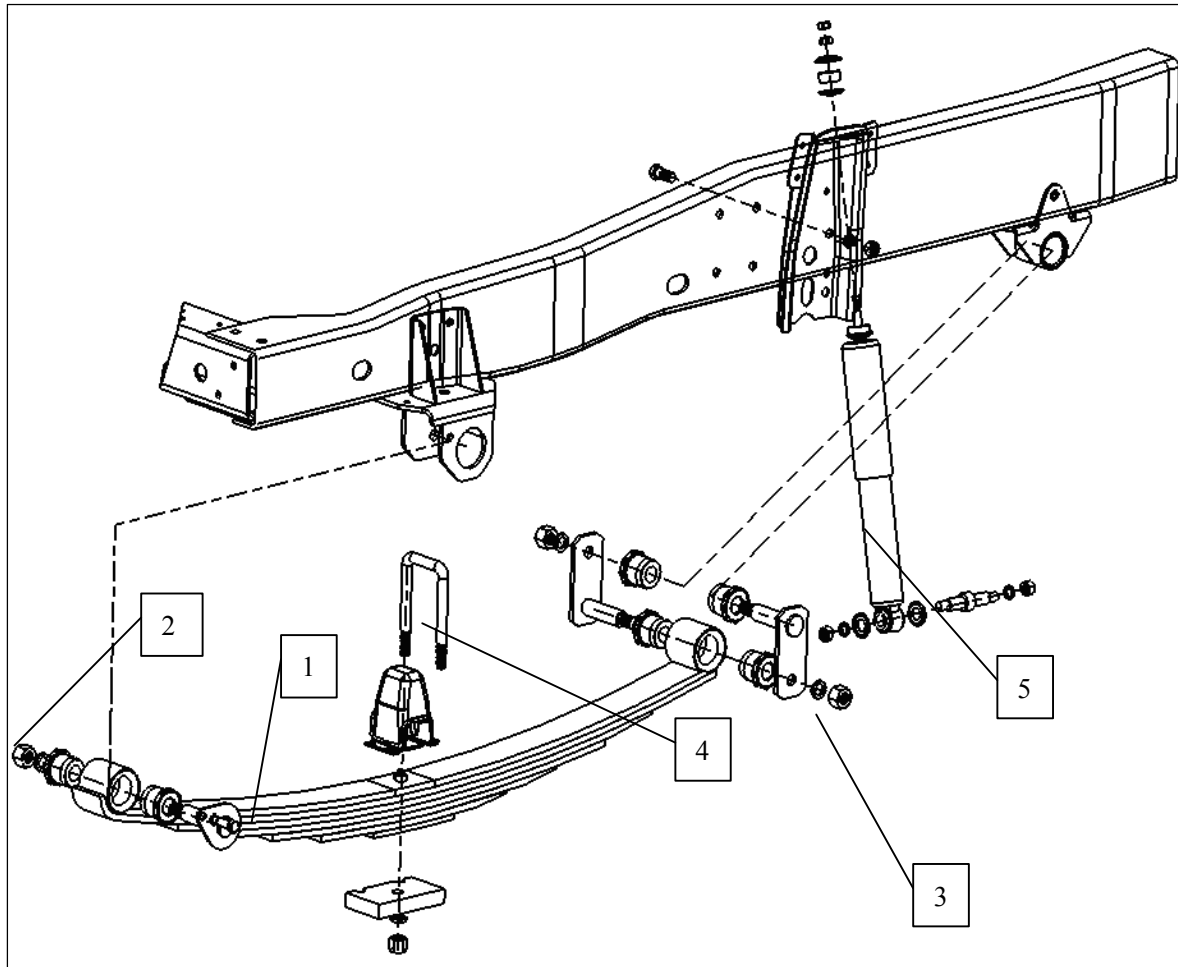
Replacing of leaf spring bushing

Screw out leaf spring bushing with hand and screw in a new one.

Front Suspension



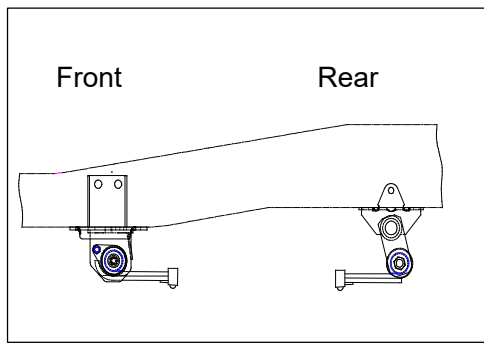
Reassembling



Disassembling sequence

1. Leaf spring 2. Retainer pin 3. Lifting lug pin 4. U-bolt 5. Front shock absorber

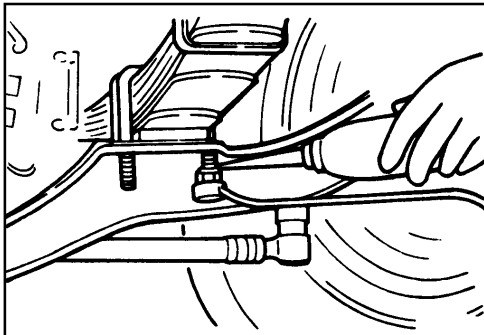
Front Suspension



Important operation - assembling

Leaf spring assembly

The assembling direction of leaf spring must be the same as that of the original state.



Nut

U- bolt

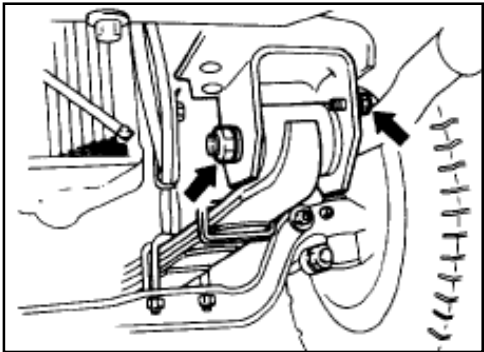
(1) Park the vehicle on a level surface, install the U-bolt at the corresponding position of the leaf spring

(2) Lift up the vehicle.

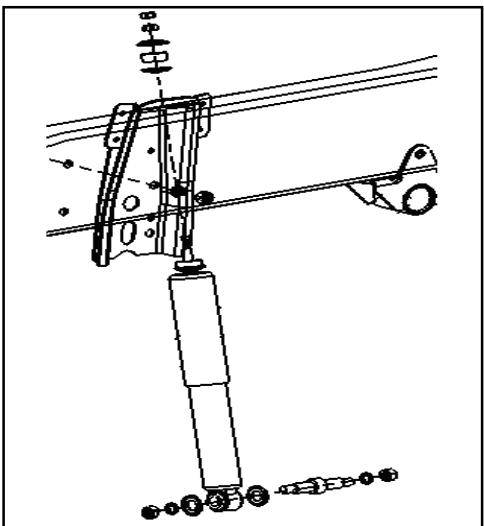
(3) Align the front axle holes and the U-bolt.

(4) Apply machine oil to the nuts before tightening them so as to avoid damaging the thread.

(5) Tighten the nuts.



Install the leaf spring pin; tighten it to the specified torque.



Front shock absorber assembly

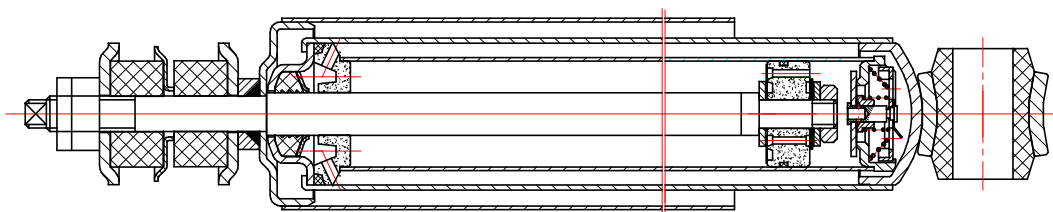
Nut, washer and rubber bearing bush

Disassemble the shock absorber assembly, nut, washer and bearing bush by following the sequence indicated in the diagram.

Tighten the nut until the washer contacts the end fitting surface.

Front Suspension

Front shock absorber assembly



Main data and specification

Types	Two-way hydraulic cylindrical shock absorber	
Max. outer diameter of liquid storage cylinder	(mm)	∅ 45
Max. outer diameter of boot	(mm)	∅ 53
Main stroke	(mm)	220
Compression length	(mm)	335
Extension length	(mm)	555