

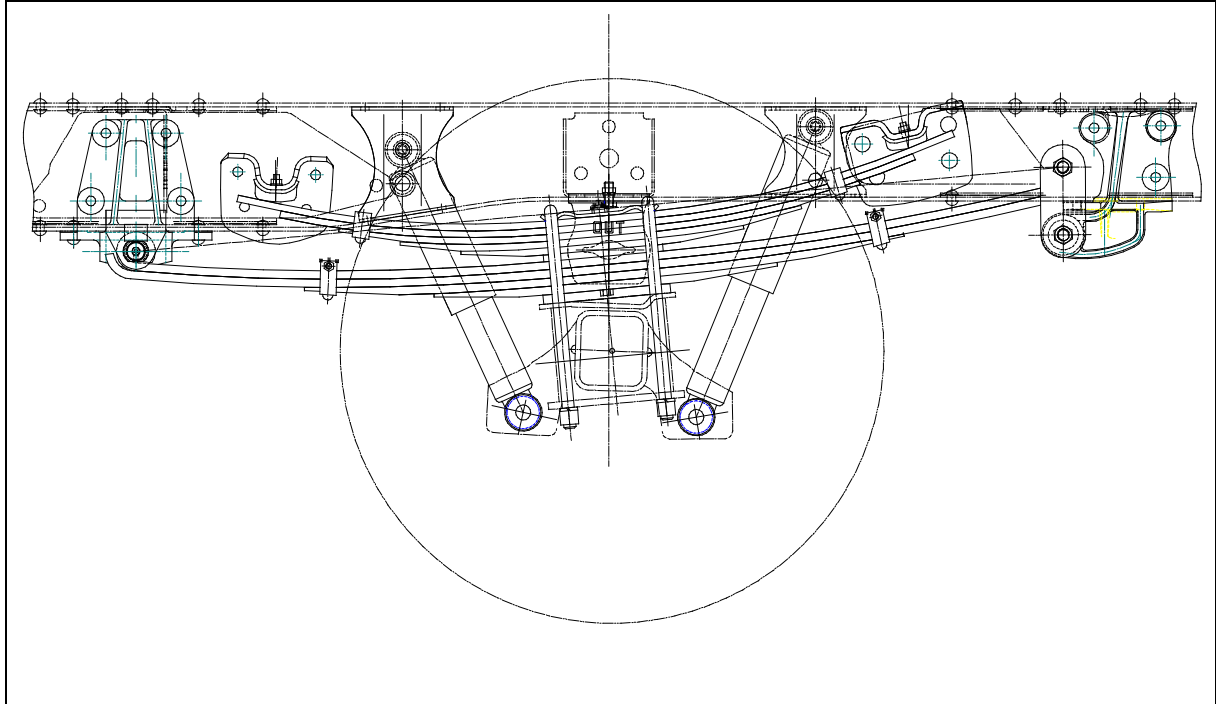
## Rear Suspension

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### Rear suspension

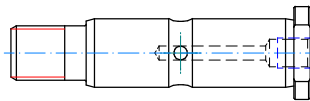
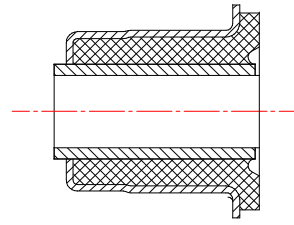
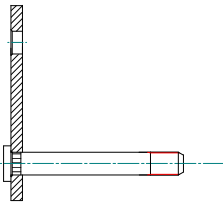
General

**HFC1042K2**



## Rear Suspension

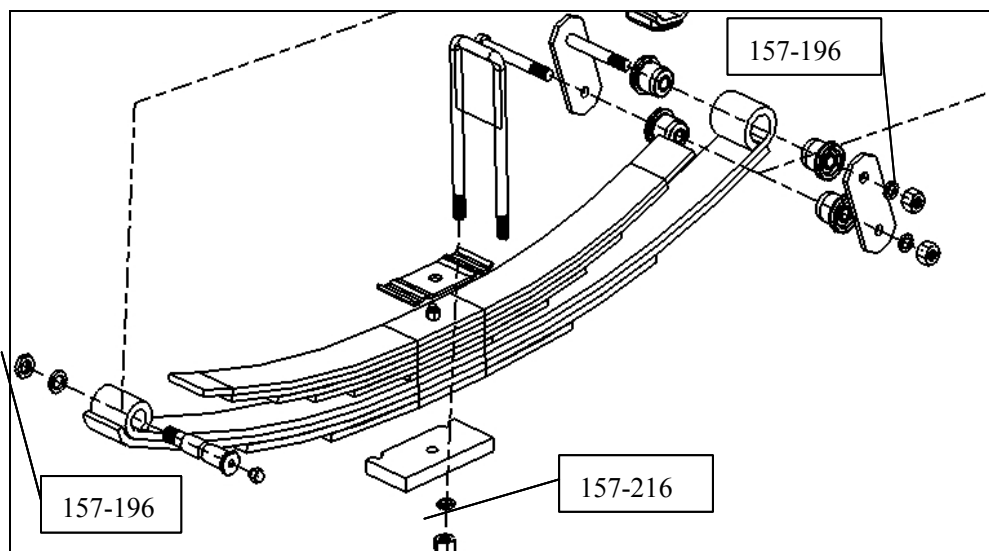
### Specifications

|                           |                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------|
|                           | HFC1042K2                                                                                                               |
| Rear suspension           |                                                                                                                         |
| Spring type               | Semi-elliptic blade type leaf spring                                                                                    |
| Length mm                 | 1250                                                                                                                    |
| Width mm                  | 70                                                                                                                      |
| Front fixing bushing type | Metal bushing with flange pin<br>      |
| Pin type                  |                                       |
| Rear fixing bushing type  | Metal rubber bushing with flange<br> |
| Pin type                  |                                      |
| Shock absorber type       | Two-way hydraulic cylindrical shock absorber                                                                            |

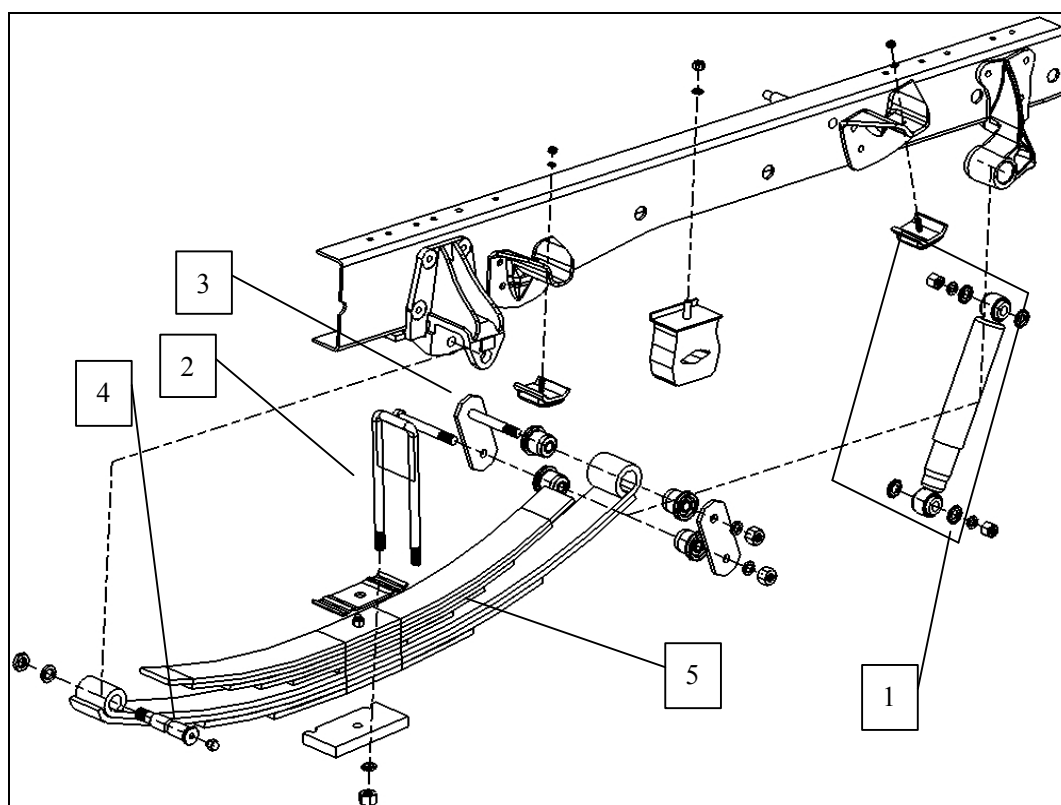
## Rear Suspension

### Tightening torque

(Unit:N·m)



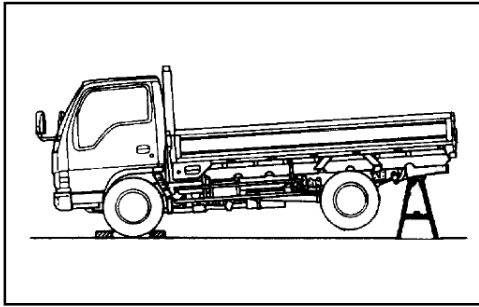
### Disassembling



### Disassembling sequence

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

## Rear Suspension

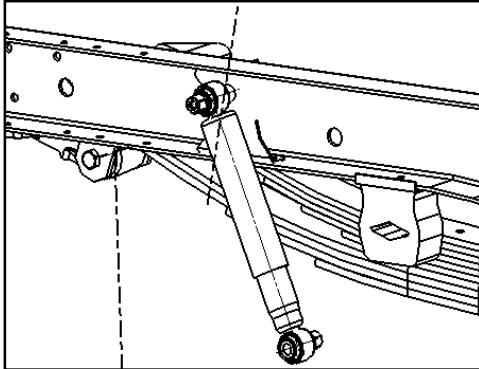


### Preparations

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

#### 1. Rear shock absorber

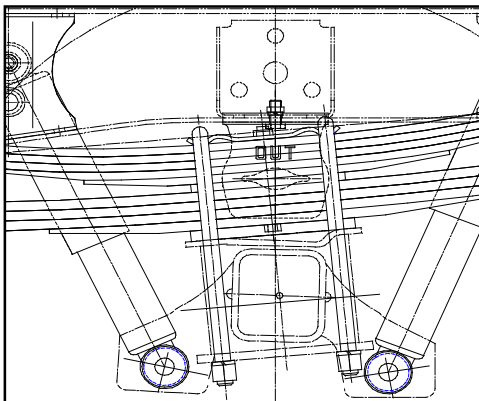
Remove the shock absorber by loosening the shock absorber mounting nut.



### Important operation

#### 2. U-bolt

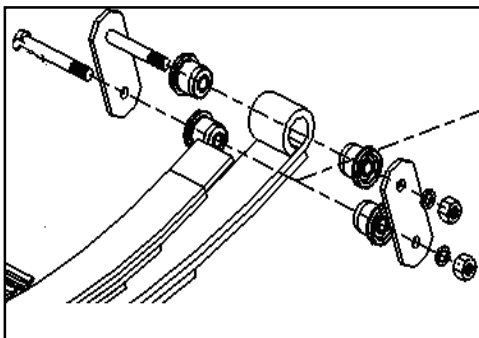
After loosening U-bolt and nut, lift up the vehicle; remove the U-bolt by resting the vehicle on the chassis bracket; then remove the rear axle assembly.



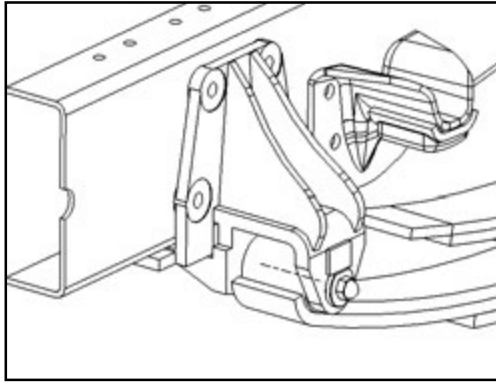
### Important operation

#### 3. Lifting lug

Loosen lifting lug nut; remove the lifting lug plate and pin.



## Rear Suspension



### 4. Leaf spring pin

Jack up leaf spring assembly with a screw jack, remove the nut, and then pull out the bolt.



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



### Inspection and repair:

Visual inspection: If wearing, damage or any other abnormality is found during inspection, repair or replace the parts according to the actual condition.

|                      |                                 |
|----------------------|---------------------------------|
| Leaf spring assembly | Shock absorber                  |
| Leaf spring clamp    | Buffer block                    |
| Center bolt          | Rubber bushing                  |
| U-bolt               | Auxiliary spring rubber cushion |
| Leaf spring pin      |                                 |
| Lifting lug pin      |                                 |



### Visual inspection

Inspect the parts listed on the left side visually for any wearing, damage or abnormality.

Other inspection and repair steps are the same as that of the front suspension.

### Replacing of leaf spring assembly

1. Before disassembling the leaf spring, make an assembling mark on the side surface of the leaf spring.

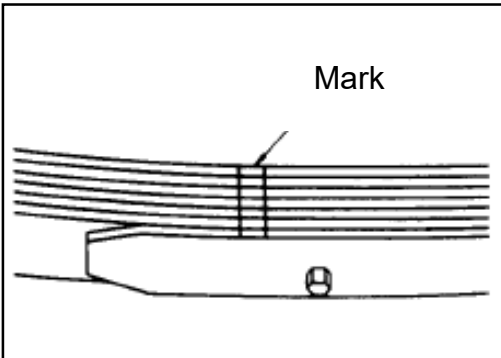
2. Apply grease on both sides of the leaf spring.

3. When disassembling and reassembling, use

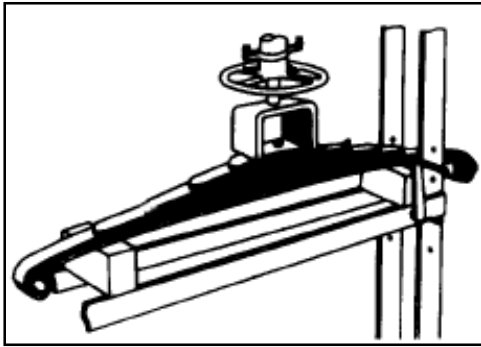
the bench press.

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.

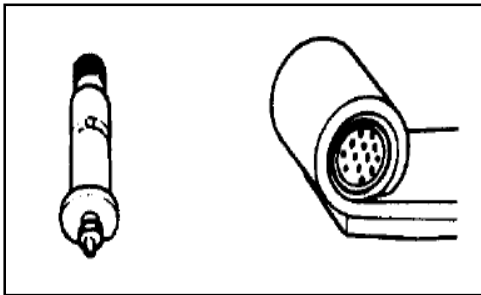


## Rear Suspension



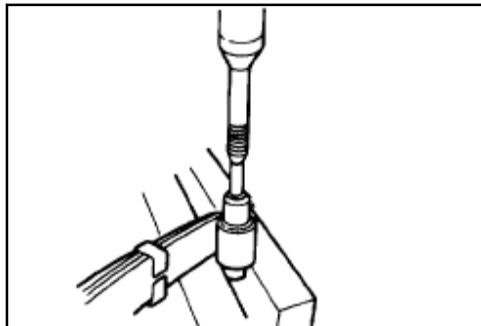
Center bolt

Torque (N.m) 90-110



Clamping bolt

Torque (N.m) 20



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

If the gap is more than 0.4mm, replace the leaf spring bushing or the leaf spring pin.

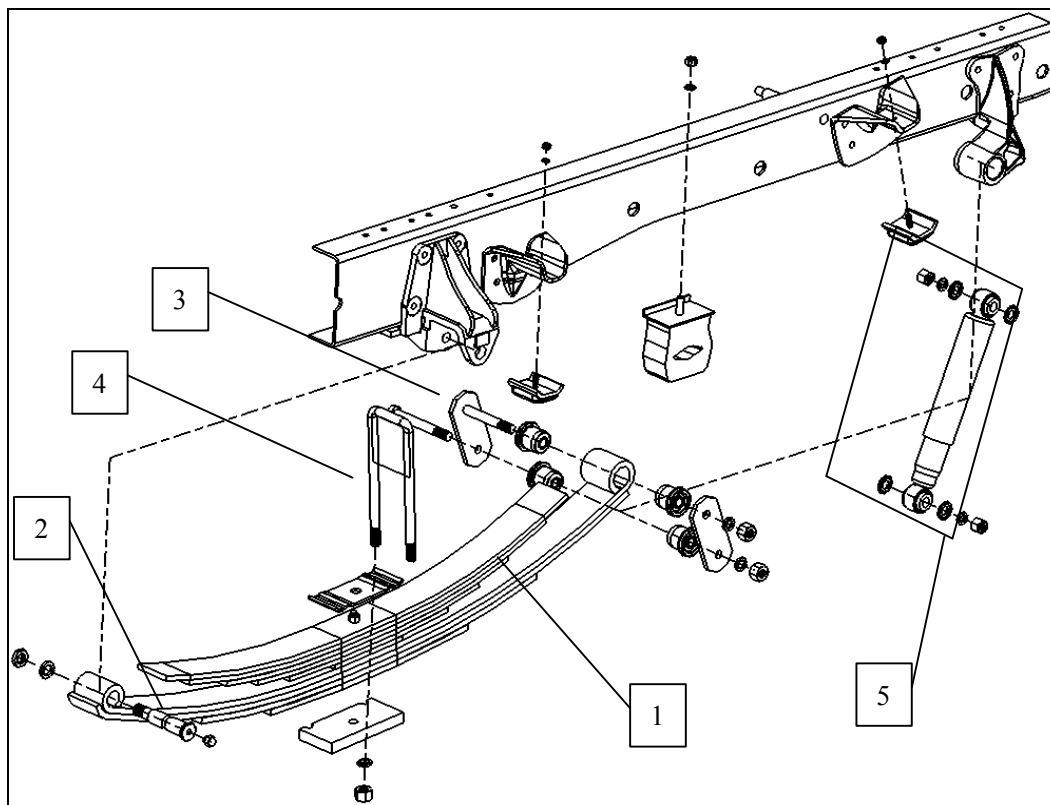
Replacing of leaf spring bushing

Disassemble and reassemble the leaf spring bushing with special equipment.

## Rear Suspension



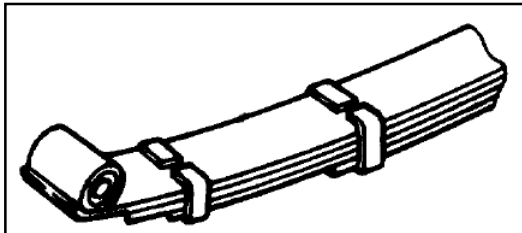
### Reassembling



#### Reassembling sequence

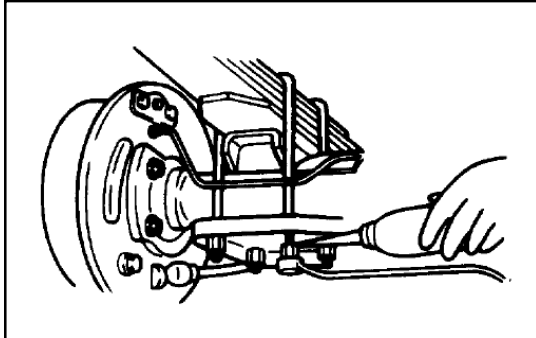
1. Leaf spring    2. Leaf spring pin    3. Lifting lug    4. U-bolt and nut    5. Rear shock absorber

## Rear Suspension



### Important operation-Assembling

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



#### U- bolt

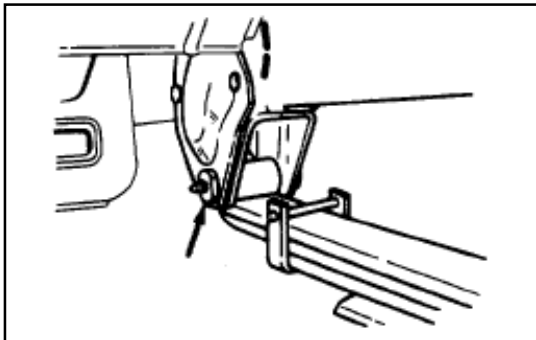
(1) Park the vehicle on a level surface, install the U-bolt in the corresponding position of the leaf spring.

(2) Lift up the vehicle.

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

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

(5) Tighten the nuts.

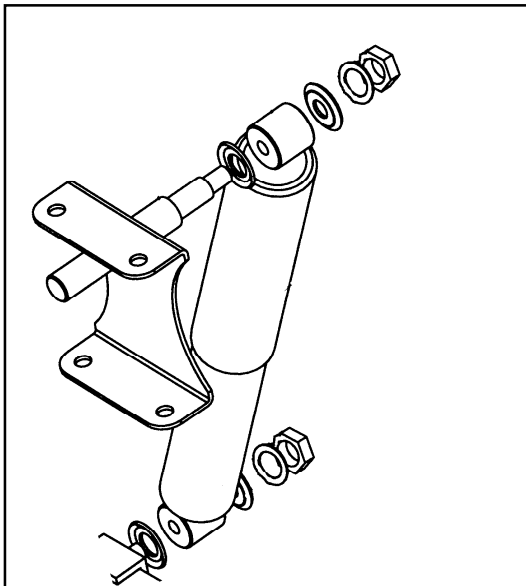


Install the leaf spring pin; tighten it to the specified torque.

Torque (N.m) 157-196



Fill in grease after assembling.



#### Rear shock absorber assembly

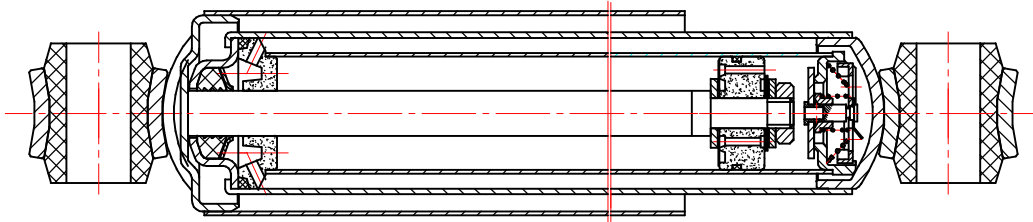
Nut, washer and rubber bearing bush

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.

## Rear Suspension

### Rear shock absorber assembly

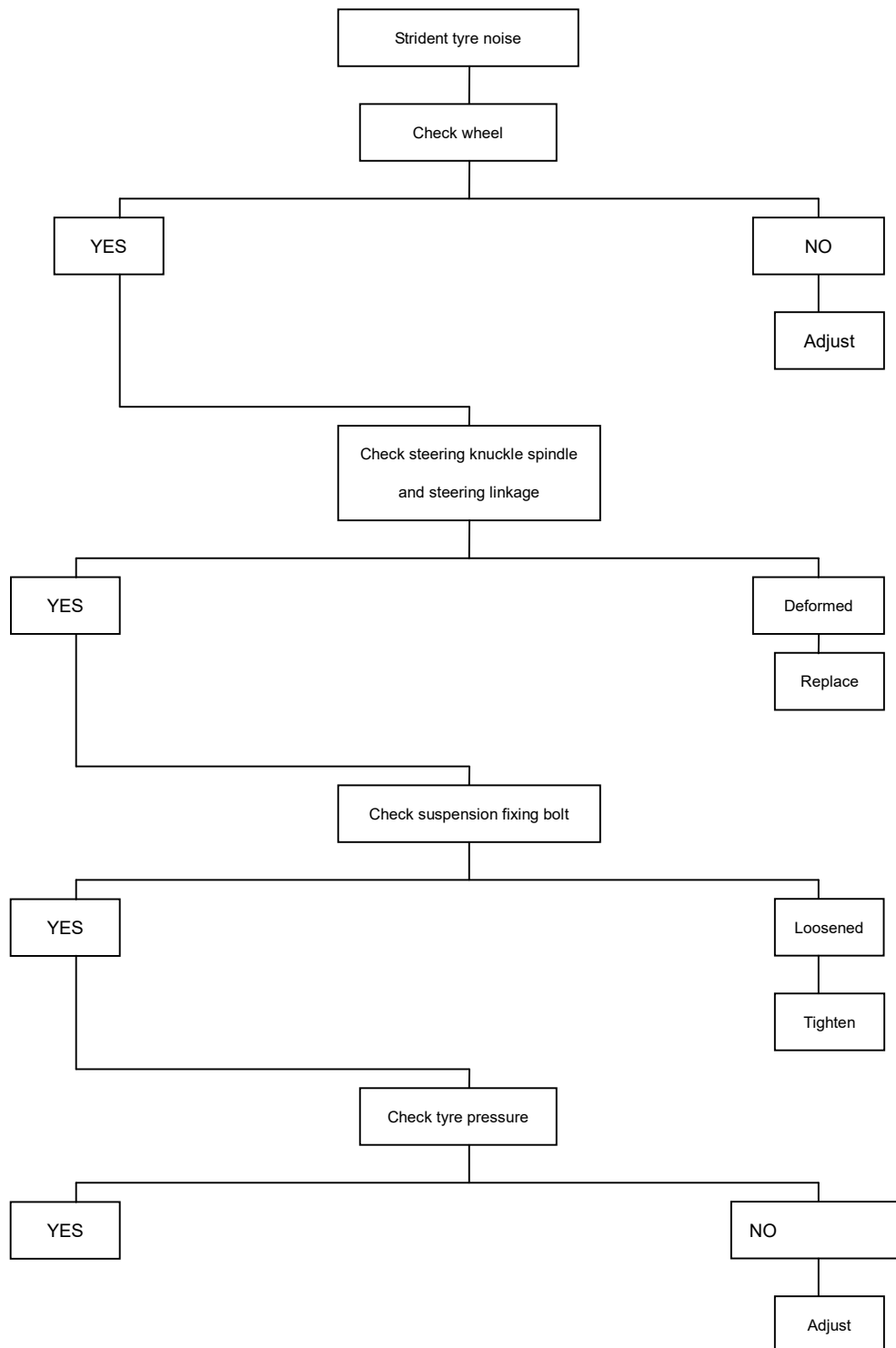


#### Main data and specification

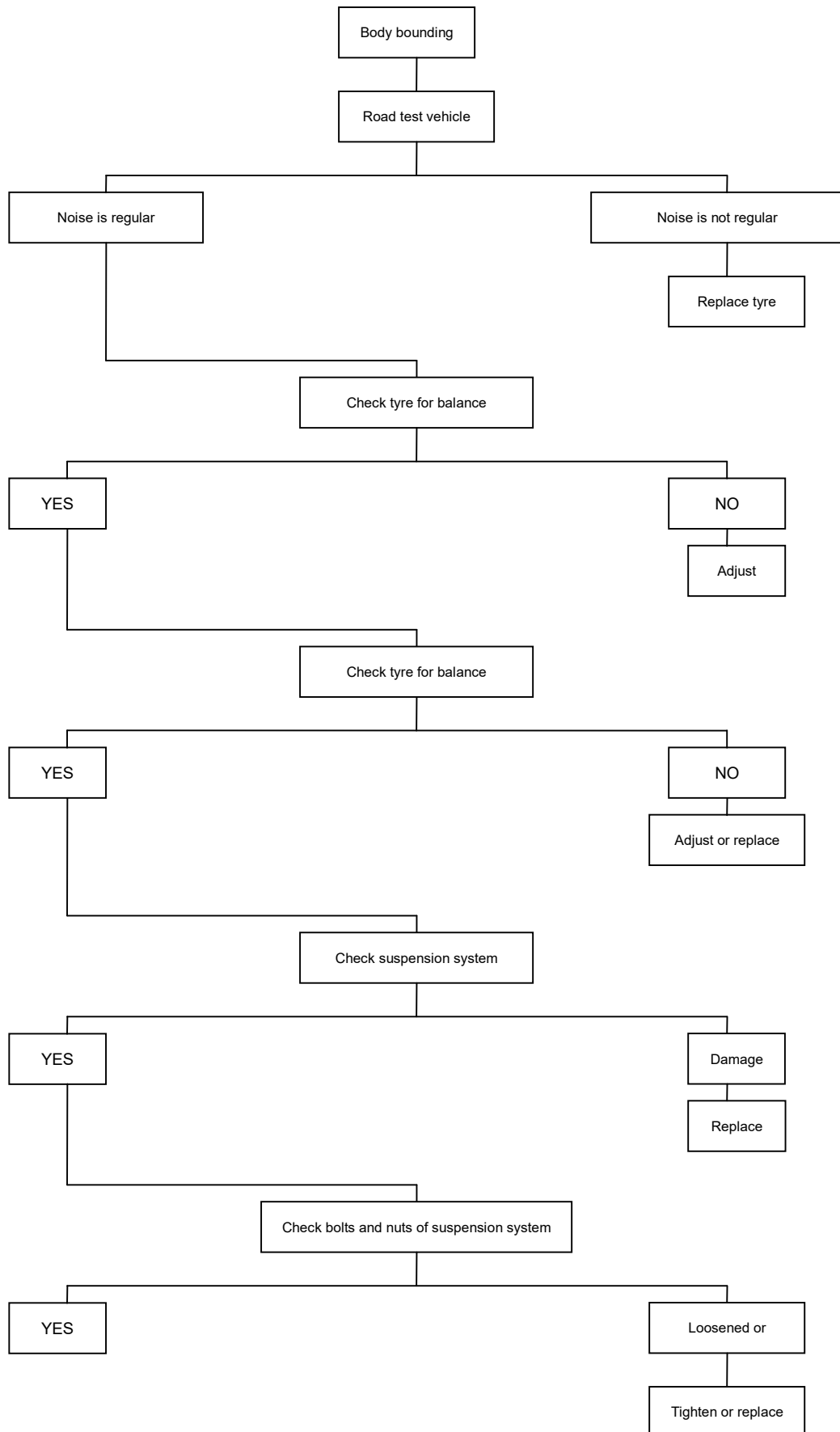
|                                                |                                              |      |
|------------------------------------------------|----------------------------------------------|------|
| Types                                          | Two-way hydraulic cylindrical shock absorber |      |
| Max. outer diameter of liquid storage cylinder | (mm)                                         | ∅ 45 |
| Max. outer diameter of boot                    | (mm)                                         | ∅ 53 |
| Main stroke                                    | (mm)                                         | 220  |
| Compression length                             | (mm)                                         | 336  |
| Extension length                               | (mm)                                         | 556  |

# Rear Suspension

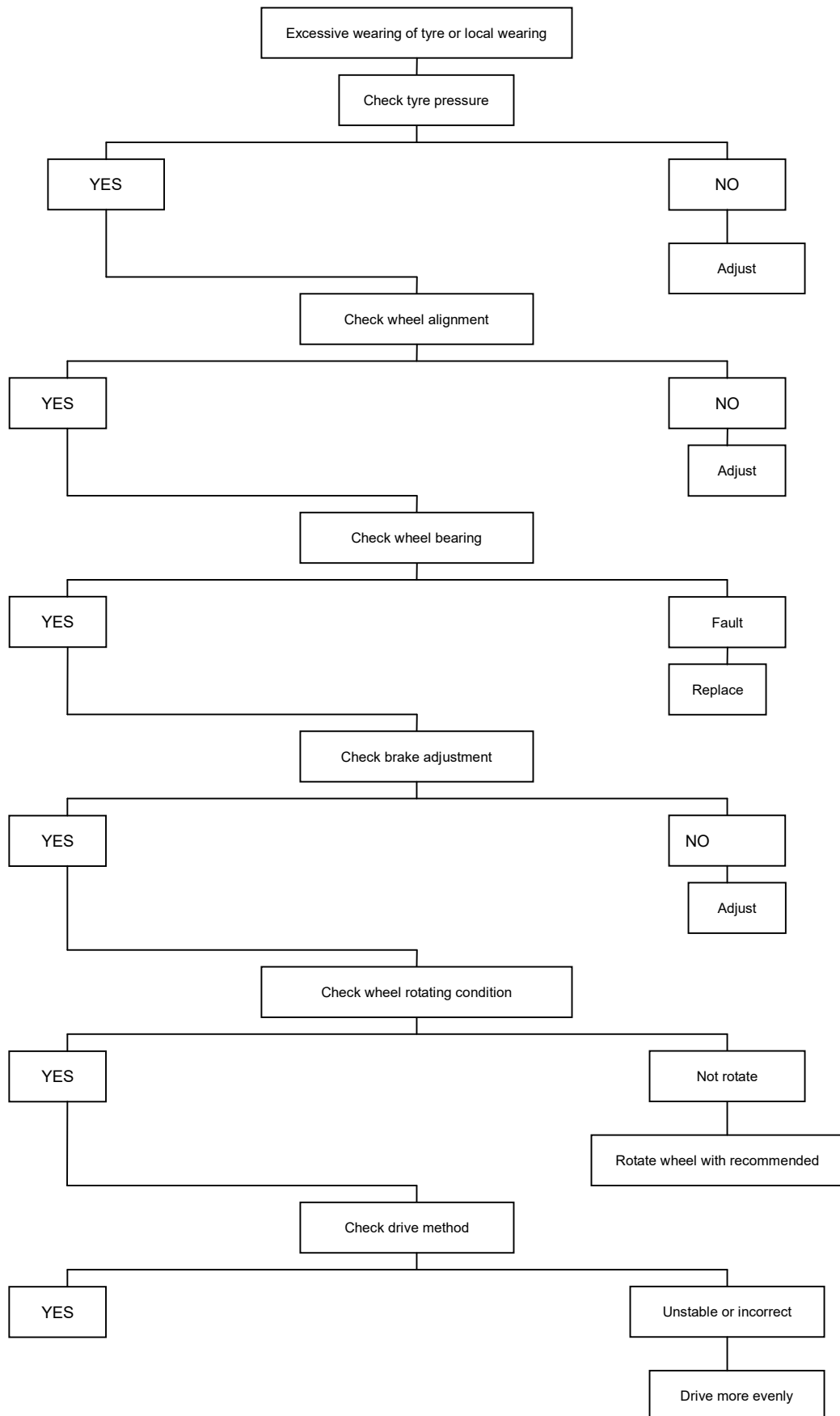
## Trouble shooting of front suspension



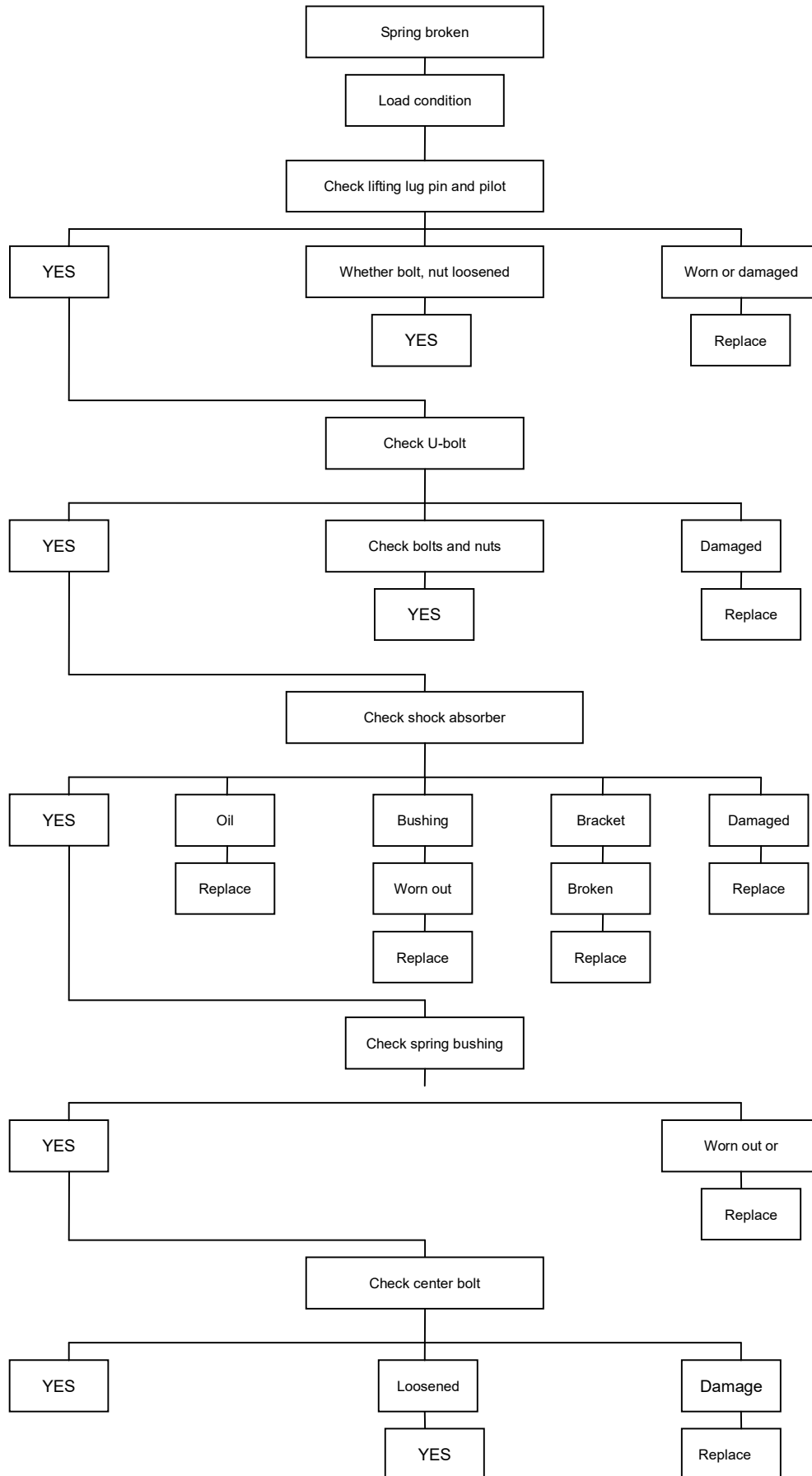
# Rear Suspension



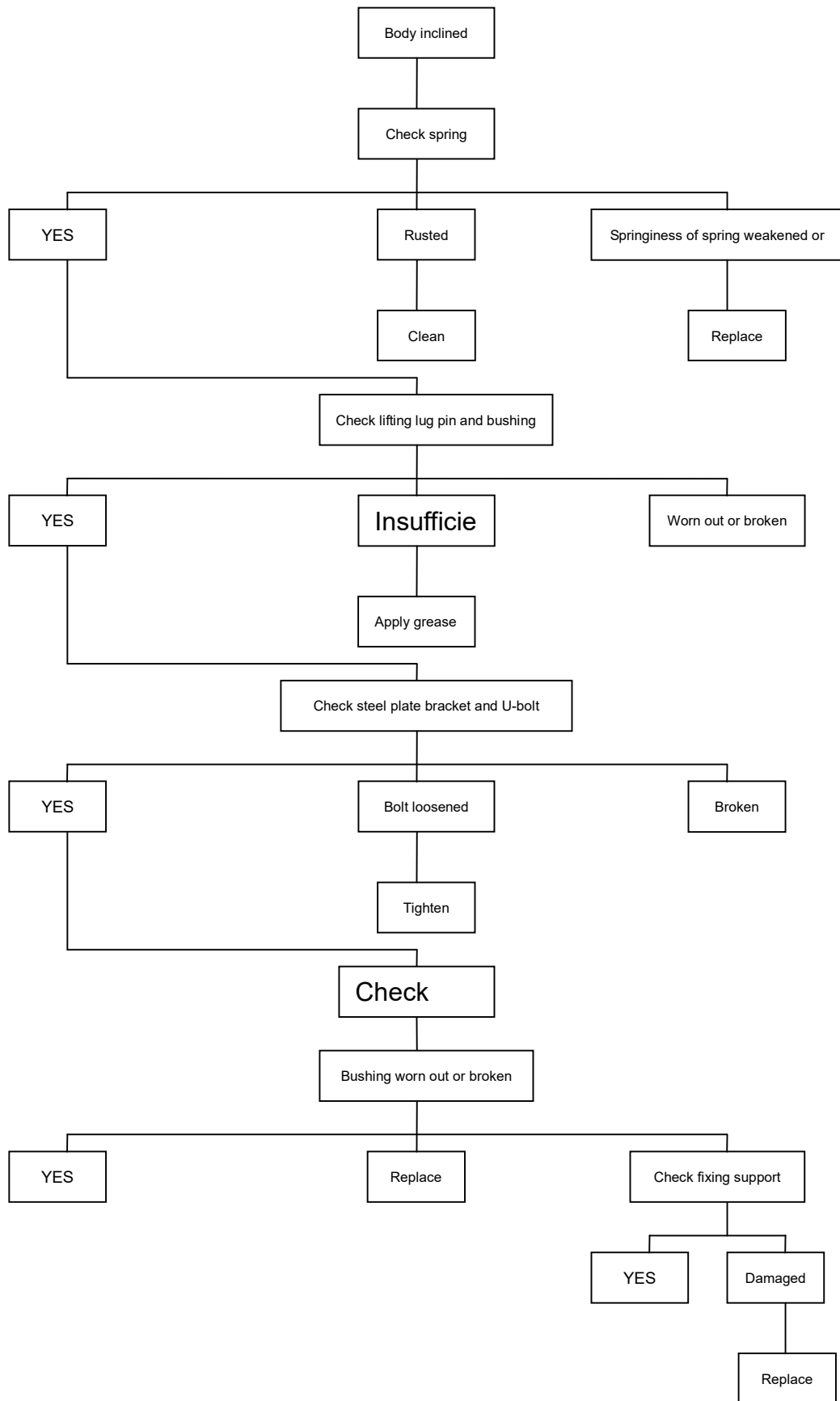
# Rear Suspension



# Rear Suspension

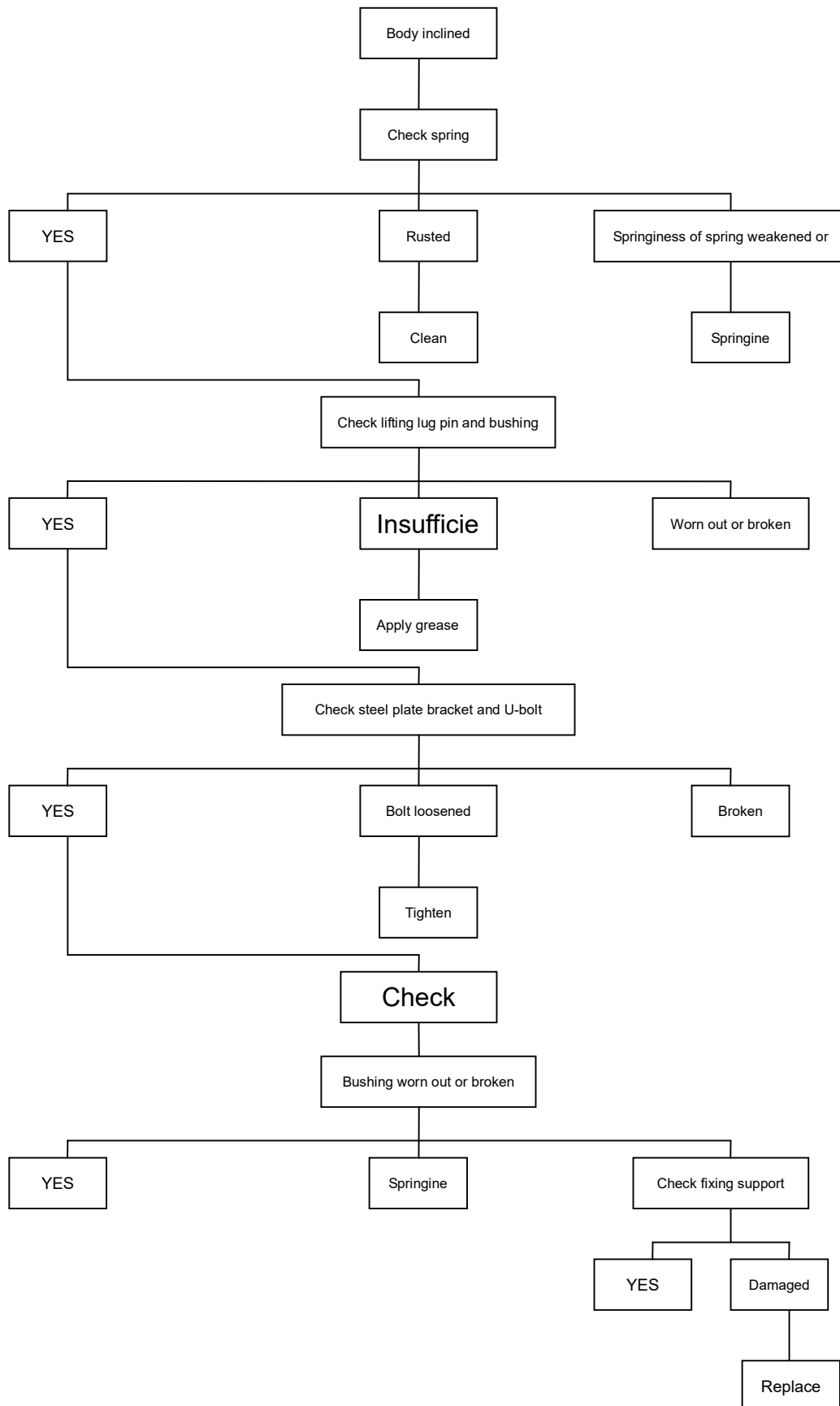


# Rear Suspension

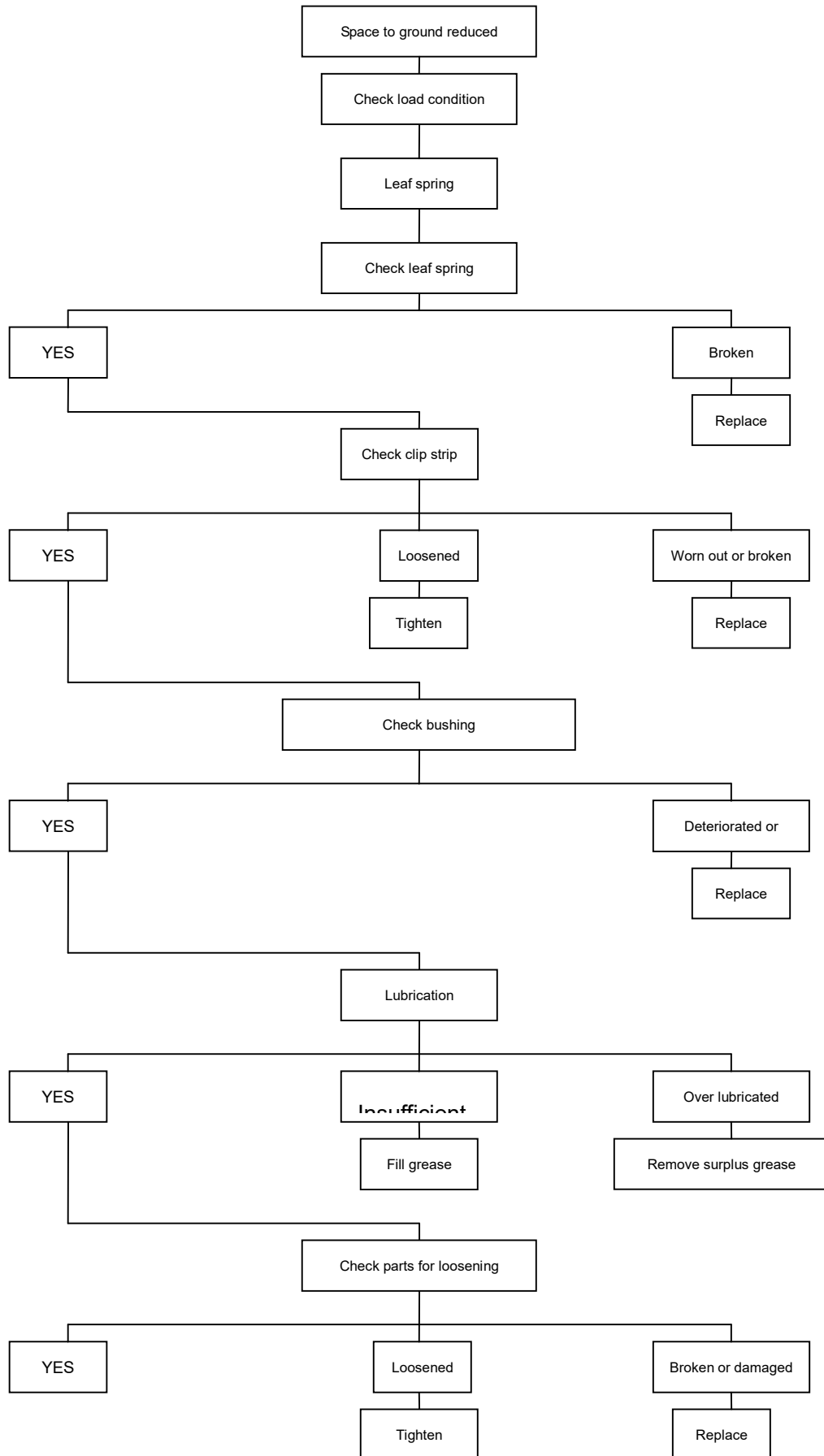


# Rear Suspension

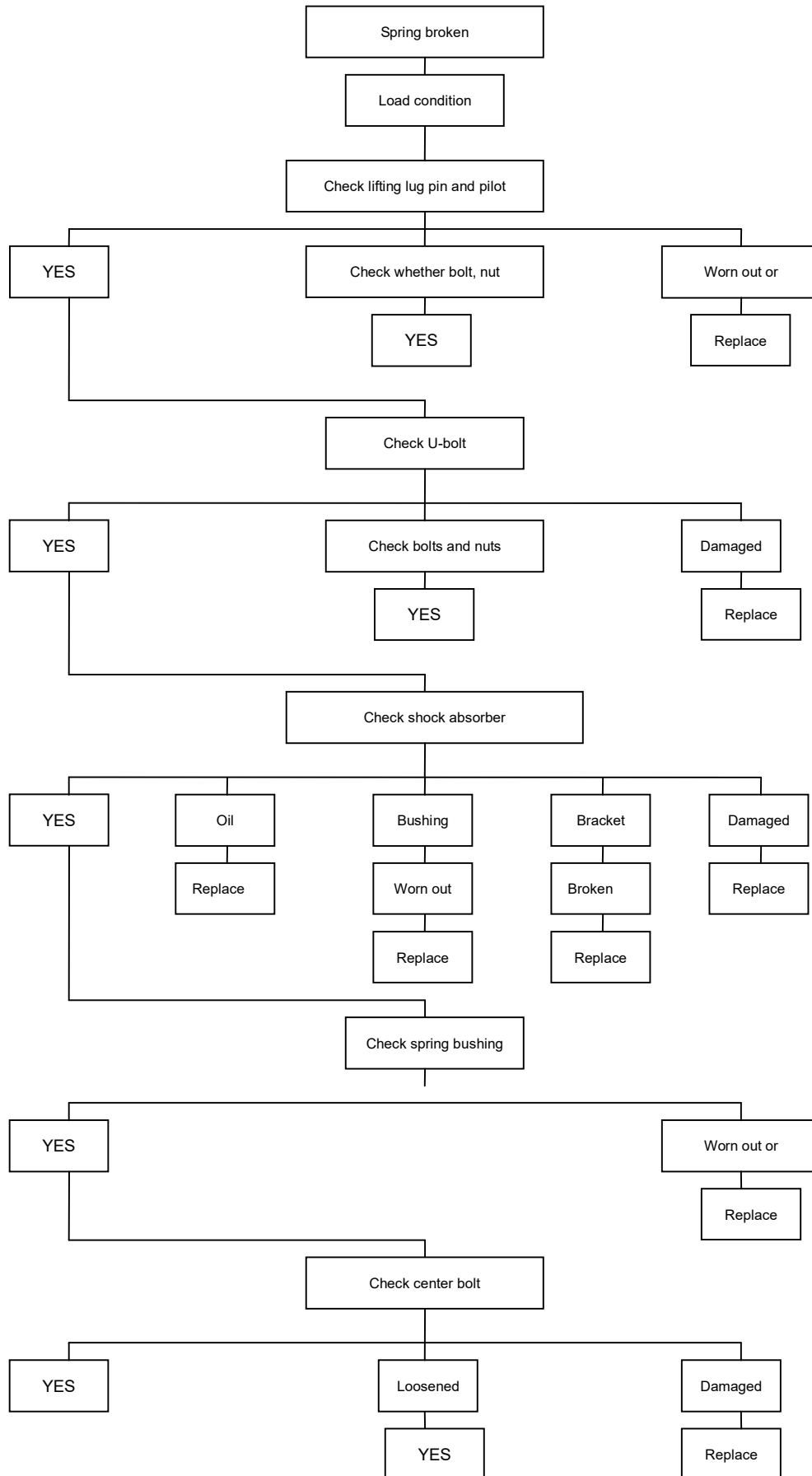
## Trouble shooting of rear suspension



# Rear Suspension



# Rear Suspension



# Rear Suspension

