

FITTING INSTRUCTIONS

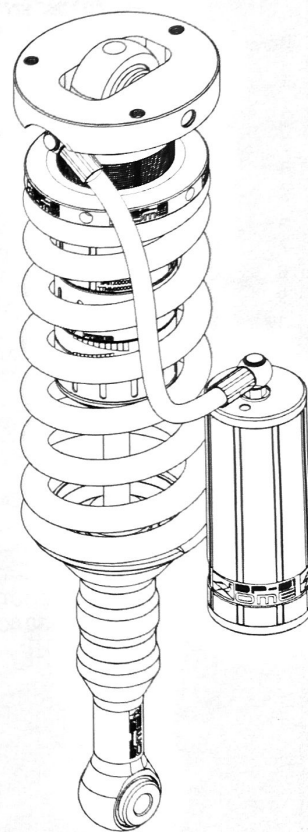
BP5190002L & BP5190002R

TOYOTA PRADO 150 / FJ CRUISER FRONT

WARNING

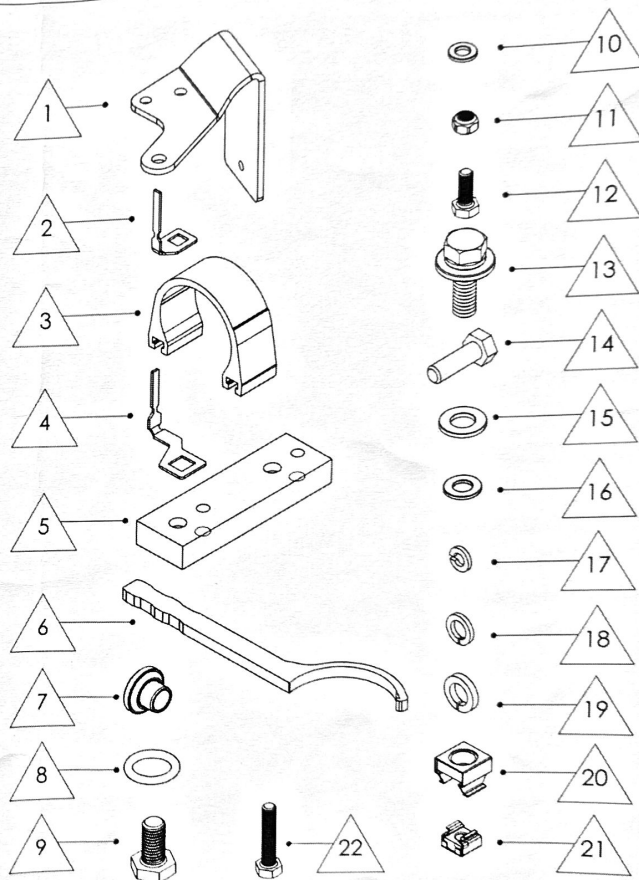
- ◆ This product must be installed exactly as per these instructions using only the hardware supplied.
- ◆ In the event of damage to any suspension component, contact your nearest authorised ARB stockist. Repairs or modifications to the suspension system components must not be attempted.
- ◆ Do not use this product for any vehicle make or model, other than those specified by ARB.
- ◆ Do not remove labels from suspension components.
- ◆ This product or its fixing must not be modified in any way.
- ◆ The installation of this product may require the use of specialized tools and/or techniques
- ◆ It is recommended that this product is only installed by trained personnel
- ◆ These instructions are correct as at the publication date. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer
- ◆ During installation, it is the duty of the installer to check correct operation/clearances of all components
- ◆ Work safely at all times

Note: These fitting instructions should be read in conjunction with the vehicle workshop manual.



FITTING KIT CONTENTS

Item	Description	Part No.	Qty.
1	RESI MOUNT: PRADO FRONT	VE10020010LSP	1L
2	BRKT CAGE NUT PRADO M6	VE10020010RSP	1R
3	MOUNT: RESERVOIR CLAMP	VE10040001SP	2
4	BRKT CAGE NUT PRADO M8	VE10010003SP	2
5	MOUNT: SWAY BAR RELOC.	VE10040002SP	1
6	TOOL: ADJUSTER TOOL	VF60060001SP	2
7	MOUNT: REDUCERS 14x40	VC10010071SP	1
8	O-RING: 318 BLACK	VF50031440SP	4
9	FASTENER: M10x1.5x20 BOLT	VE20170318SP	4
10	WASHER: M6 BLACK	VD60030005SP	4
11	FASTENER: M6 NYLOC NUT	VE70020005SP	4
12	FASTENER: M6x1.0x16 BOLT	VD60010003SP	4
13	BOLT KIT: M10x1.5x30	6151555SP	6
14	FASTENER: M8x1.25x25 BOLT	6151546SP	2
15	WASHER: M10 BLACK	VE70020003SP	4
16	WASHER: M8 BLACK	VE70020004SP	2
17	SPRING WASHER: M6 BLACK	4581287SP	2
18	SPRING WASHER: M8 BLACK	4581047SP	2
19	SPRING WASHER: M10 BLACK	4581292SP	4
20	FASTENER: M8 CAGE NUT	6151303SP	1
21	FASTENER: M6 CAGE NUT	6151315SP	2
22	FASTENER: M6x1.0x30 BOLT	6151228SP	2



DAMPER PREPARATION

Before fitment the spring preload may need to be adjusted to suit your front accessory fitment and desired ride height.

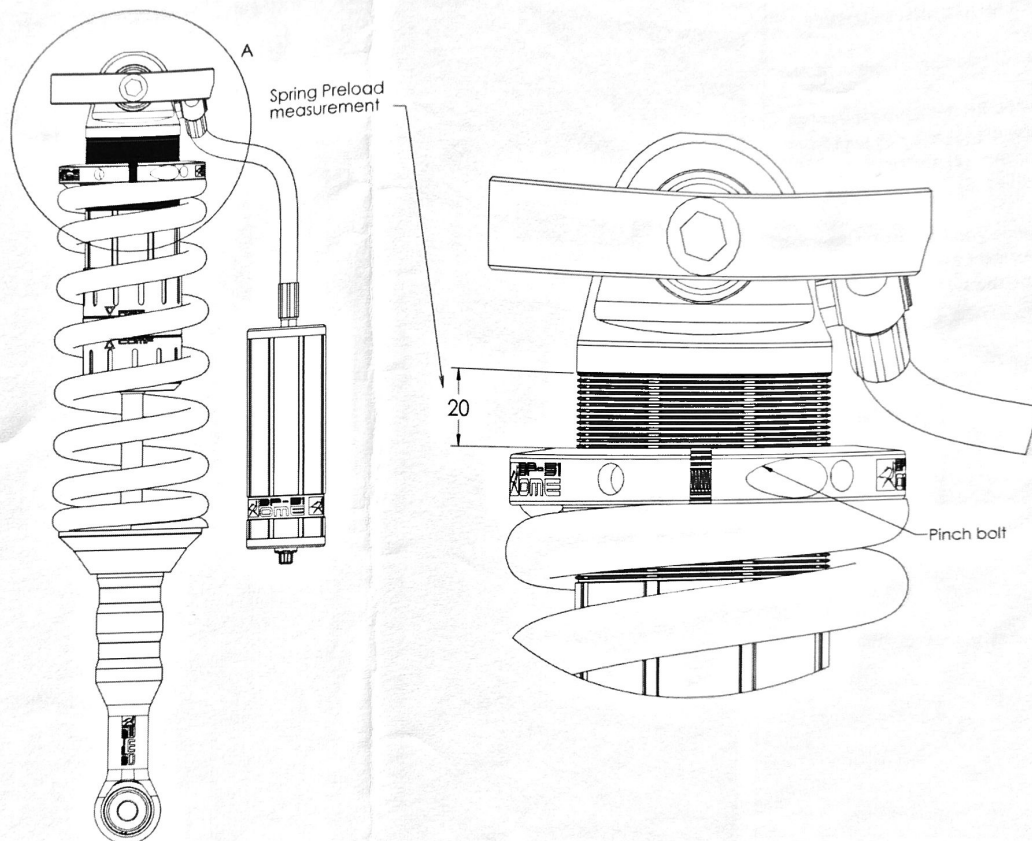
Use workshop tool kit VM80020001 to aid spring adjustment.

The preload is set at the factory to 20mm as shown by the diagram. This aims to achieve 30-40mm increase in ride height over OE when a Bull Bar and winch are fitted.

It is required to set the preload before the strut assembly is fitted to the vehicle. Use a spring compressor to compress the spring, loosen the pinch bolt on the preload ring and adjust to the desired setting. Tighten the pinch bolt and remove the strut assembly from the spring compressor.

As a guide, set the preload as specified below to achieve 30-40mm increase in ride height.

Front accessories	Preload	
	Diesel	Petrol
Bar & winch	20 mm	15 mm
Bar only	15 mm	10 mm
No accessories	10 mm	5 mm

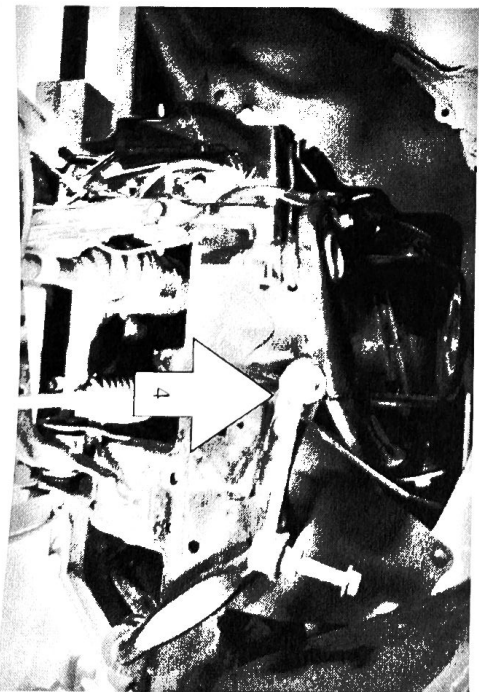
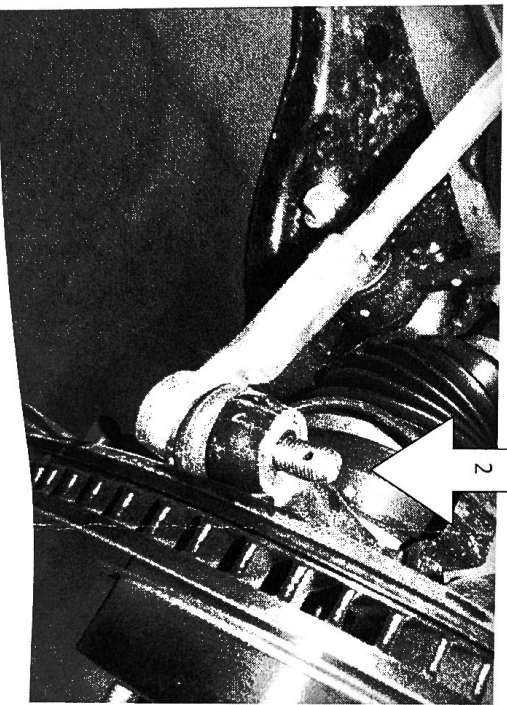
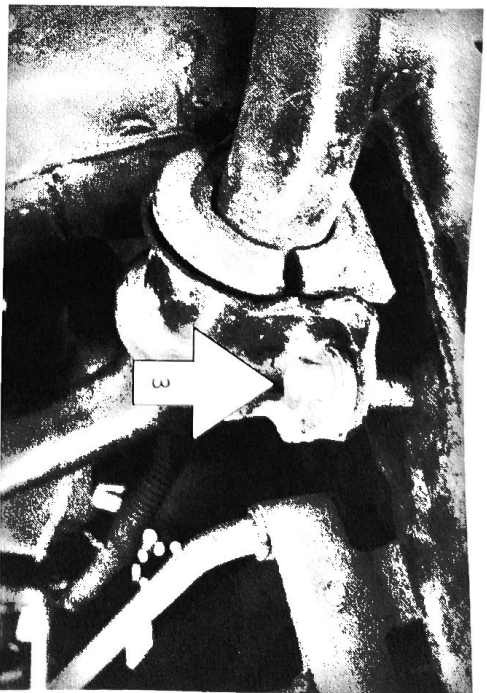
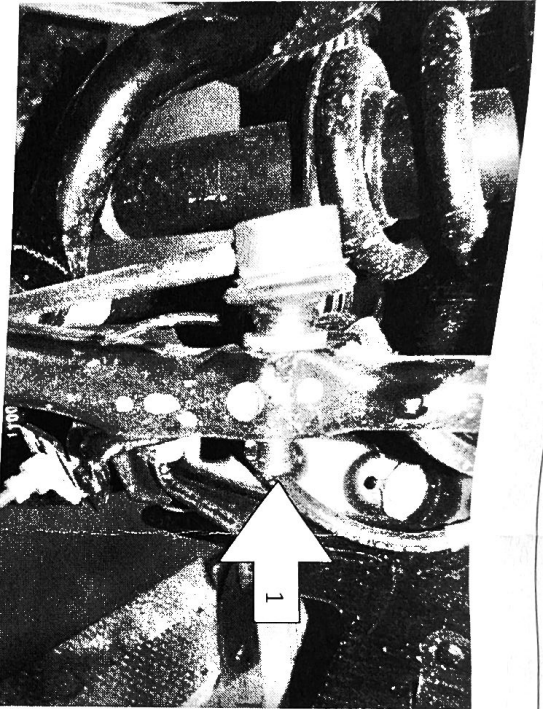


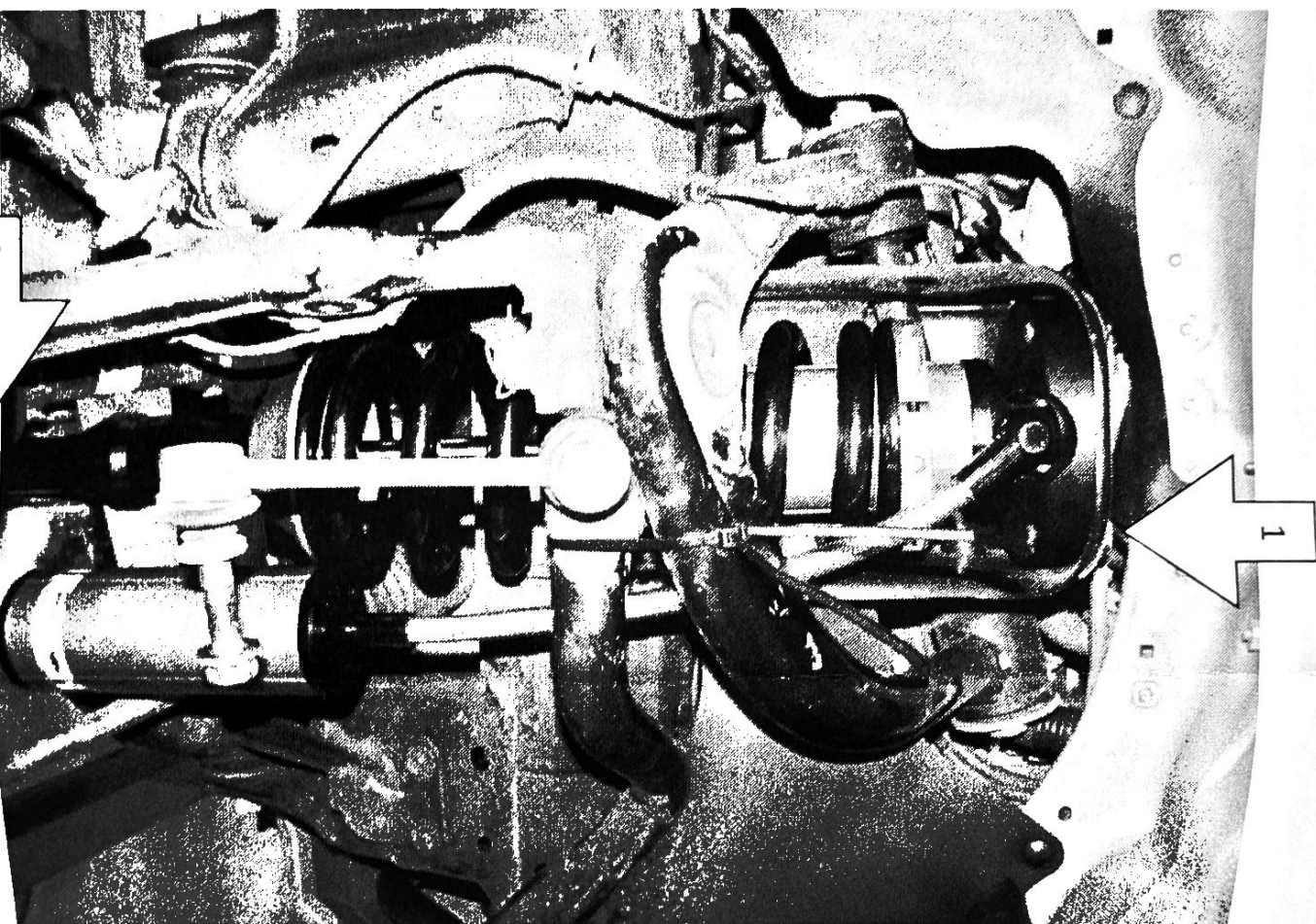
DAMPER MOUNTING SEQUENCE

Remove old dampers from vehicle.

For LH and RH detach sway bar link from spindle (1) and ball joint from steering arm (2) and remove sway bar saddles (3).

To provide good access for inserting the new strut assembly it helps to cable tie the sway bar to the upper arm (4).





RESERVOIR MOUNTING SEQUENCE (RH SHOWN)

Fit M6 bolts to mounting bracket and secure with nyloc nut and flat washer (1).

Secure finger tight only at this stage.

Bend the new nut plates (2) by hand 90 degrees and assemble with 2 x M6 and 1 x M8 cage nuts.

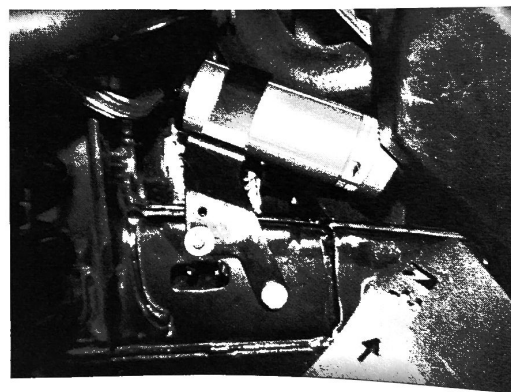
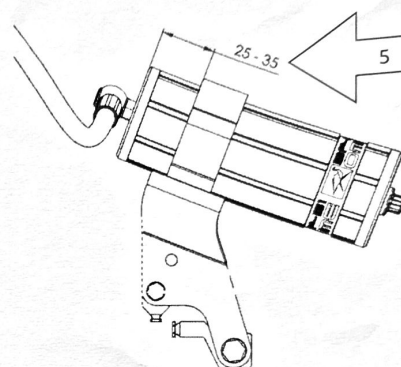
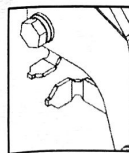
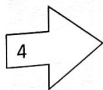
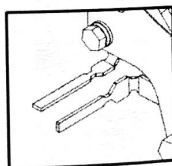
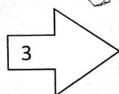
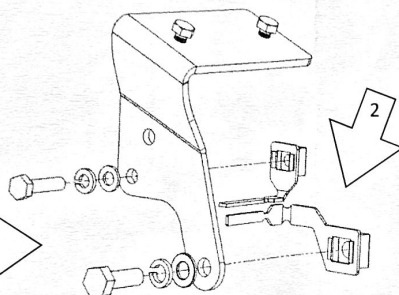
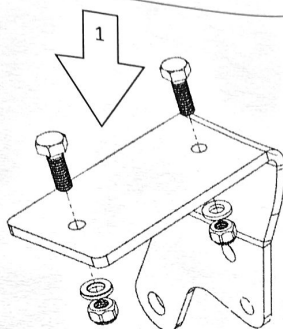
Fit the reservoir mounting plate to the outside of the chassis rail. Insert plates through opening in chassis rail and secure with new M8 and M6 bolt, flat and spring washer (3). Insert plates through opening on chassis rail.

A threaded hole is present for new M8 bolt on LH chassis rail, no cage nut required.

When bolts are secured, break the tabs away from the nut plate (4).

Fit the mounting saddle to the reservoir and slide over the heads of the bolts in the mounting plate. Centralise the saddle on the plate and adjust the position of the reservoir as shown (5).

Reservoir should not make contact with any engine components or vehicle body. Securely fasten M6 nuts.



SWAY BAR SPACER FITMENT

The sway bar spacer is designed to move the sway bar forward and down to provide more clearance around the spring and spring seat.

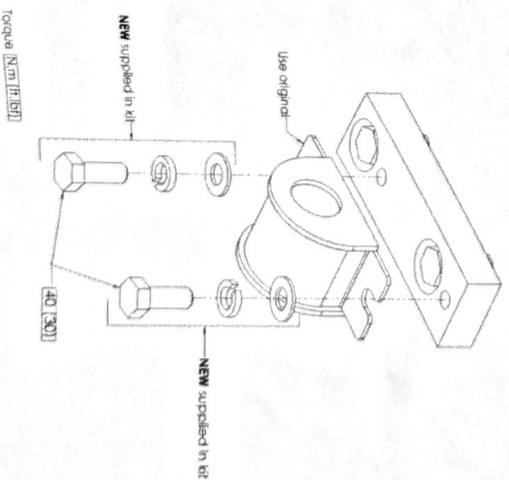
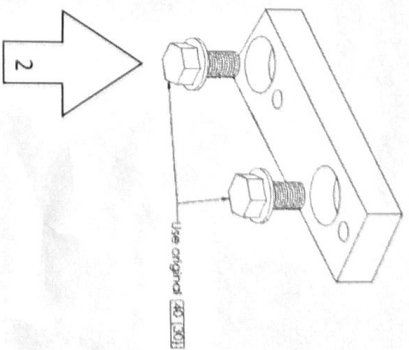
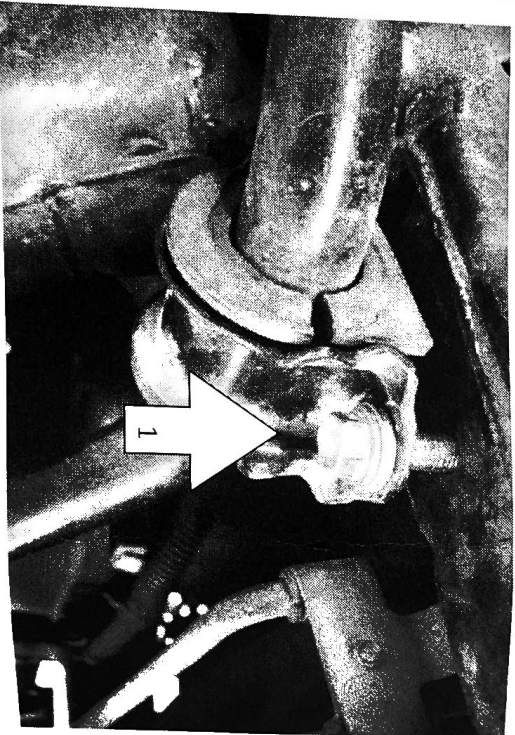
Remove the sway bar saddle on both sides of the vehicle (1).

Fit new sway bar spacer block as shown and secure with the original bolts (2).

Fit the original sway bar saddle to the spacer block using the M10 bolts supplied and torque same as original bolts.

Check all fasteners are tightened securely as per table below.

Fastener	Torque N.m (ft.lb)
Sway bar link to upright	70 (52)
Steering tie rod end to upright	88 (65)
Sway bar spacer & brkt to chassis	40 (30)
Strut top hat	44 (32)
Strut to lower control arm	95 (70)



SPECIFICATIONS AND SPARE PARTS

1	Spare Part: Spherical Bearing	VD10010018SP
2	Specification: Preload Setting	20 mm
3	Spare Part: Hose	VD80033240SP
4	Spare Part: Oil	VC30040001SP
5	Specification: Factory Rebound Setting	6
6	Specification: Factory Compression Setting	4
7	Specification: Nitrogen Pressure	2000 kPa
8	Spare Part: Valve Cap	VD30020003SP
9	Spare Part: Spherical Bearing	VD10010018SP
10	Spare Part: Damper Mounting Kit	VM80010008

DAMPING ADJUSTMENT

These dampers have been set in the factory to be used for a vehicle with Bull Bar and winch fitted. If your accessory fitment differs, use the table below as a guide for recommended compression (Comp) and rebound (Reb) adjuster settings. Refer to the Owners' Manual for more information.

Front accessories	Comp	Reb
Bar & winch	4-8	6-10
Bar only	2-6	5-9
No accessories	0-4	4-8

VM90010008

