

TUFF COUNTRY SUSPENSION

INSTALLATION MANUAL

Dodge Pickup,
Ramcharger, Trailduster
4 WD

69-74	Part No.	D6-1B
74 1/2-77	Part No.	D6-2B
78-91	Part No.	D6-3B

PART NO. D6-1B, D6-2B, D6-3B

PARTS LIST:

Qty.	Description
2	FRONT LEAF SPRINGS TCI-D6M
2	REAR LEAF SPRINGS TCI-D6R
8	POLY SPRING BUSHINGS
8	BUSHING CRUSH SLEEVES
2	FRONT BRAKELINE BRACKETS
1	REAR BRAKELINE BRACKET
1	5/16" X 1" BOLT
1	5/16" NUT
1	5/16" WASHER
4	FRONT U-BOLTS AND OR STUDS
4	REAR U-BOLTS
16	9/16" U-BOLT NUTS
16	9/16" U-BOLT WASHERS
4	4 DEGREE AXLE SHIMS
4	3/8" CENTER BOLTS

FRONT END INSTALLATION

1. Position hydraulic floor jack under axle close to the differential housing and raise vehicle until both wheels are off the ground. Position adjustable floor stands on each side of the frame rail approximately 3" behind the shackles and lower floor jack so weight of vehicle rests on both floor stands. Both wheels must be off ground. Leave floor jack in same position. Remove both wheels and shock absorbers.

2. Locate the front rail cross member. Remove the one bolt and nut one on each side and install the new front brakeline relocating brackets.

3. Remove brake line where the rubber brake hose connects to the steel brake line at the frame of the vehicle. Re-route the steel brake line so the steel line and the rubber brake hose can be reconnected thru the brake line adapter. **CAUTION: Take care not to kink, pinch, or stretch brake lines.** Now re-connect brake lines and rubber brake hose thru brake line adapter. When brake lines have been re-routed on both sides of the vehicle, brake lines should be bled as needed.

4. If vehicle is equipped with a swaybar, disconnect swaybar at the frame.

5. Raise floor jack positioned under the front axle until the weight of the springs are slightly resting on the axle. Remove the spring U-bolts on both sides.

6. Lower floor jack until the springs are free from axle seat and there is enough room between the bottom of the springs and axle spring seat to remove the springs. Now remove the two rear shackle bolts and the two spring eye hanger bolts and save for re-use.

7. Now install the new 4 degree shims into the new front leaf springs using the new 3/8" center bolts and nuts. Degree shim is installed with the small end pointing toward the rear of the vehicle. **When removing the original center bolt from new spring use a C-clamp to hold spring together. Then release C-clamp when new shims are installed.**

8. **GREASE ALL POLY SPRING BUSHINGS, SLEEVES AND BOLTS.** Insert the poly spring bushings and steel crush sleeves on each end of the new front leaf springs. (Part No. TCI-C6M). Install new front leaf springs using the stock eye hanger and shackle bolts previously removed. Now using the floor jack, raise the axle taking care to properly align the spring center bolts into the holes in axle seat pad. The center bolt head must seat into the axle pad hole. **Do not fully torque eye hanger and shackle bolts at this time.**

9. Install the new front U-bolts. **Note: For vehicle years 1969-1974 use (2) 9/16" x 2 3/4" x 8" round U-bolts. (1) 9/16" x 3 3/4" x 10" round U-bolt. (2) 9/16" bolts. For vehicle years 1974 1/2 - 77 use (4) 9/16" x 2 1/2" x 8 1/2" square U-bolts. For vehicle years 1978-1991 use (2) 9/16" x 3" x 8" round U-bolts. (1) 9/16" x 3 3/4" x 10" round U-bolts. (2) 9/16" bolts. Torque U-bolts to 90-100 ft. lbs.**

10. If vehicle is equipped with a swaybar install the new sway bar drop bracket #DSBD between the frame and stock swaybar bracket.

11. Install new longer shock absorbers. Now raise the front axle enough to install tires and wheels. Remove the adjustable jack stands and lower the vehicle.

12. Re-check proper torque on all U-bolts, and all hardware installed. Be sure that all installation procedures are performed correct.

SPECIAL NOTE.

*Adjustable drag link is required for proper steering geometry.

Front end installation complete.

Rear End Installation

1. Remove existing brake line bracket from rear differential housing and save the bolt. Attach the straight brake line adapter provided in the kit to the original bracket with the 5/16" bolt, nut and washer in the kit. Now attach the bottom of the straight brake line adapter to the differential housing using the original bolt.

2. Position hydraulic floor jack under axle close to the differential housing and raise vehicle until both wheels are off the ground. Position adjustable floor stands on each side of the frame rail approximately 3" behind the shackles and lower floor jack so weight of vehicle rests on both floor stands. Both wheels must be off ground. Leave floor jack in same position. Remove both wheels and shock absorbers.

3. Raise floor jack positioned under the front axle until the weight of the springs are slightly resting on the axle. Remove the spring U-bolts on both sides.

4. Lower floor jack until the springs are free from axle seat and there is enough room between the bottom of the springs and axle spring seat to remove the springs. Now remove the two rear shackle bolts and the two spring eye hanger bolts and save for re-use. Remove stock leaf springs. Note: **Do not remove stock block.**

5. Now install the new 4 degree shims into the new rear leaf springs (TCI-D6R) using the new 3/8" center bolts and nuts. Degree shims are installed with the small end pointing toward the front of the vehicle. **When**

removing the original center bolt from new spring use a C-clamp to hold spring together. Then release C-clamp when new shims are installed.

6. GREASE ALL POLY SPRING BUSHINGS, SLEEVES AND BOLTS. Insert the poly spring bushings and steel crush sleeves on each end of the new rear leaf springs. (Part No. TCI-D6R). Install new rear leaf springs using the stock eye hanger and shackle bolts previously removed. Now using the floor jack, raise the axle taking care to properly align the spring center bolts into the holes in stock block. The center bolt head must seat into the block hole. **Do not fully torque eye hanger and shackle bolts at this time.**

7. Install the new rear U-bolts. (9/16" x 2 1/2" x 12" square.) Torque new U-bolts to 90-100 ft. lbs.

8. Install new longer shock absorbers. Now raise the front axle enough to install tires and wheels. Remove the adjustable jack stands and lower the vehicle.

9. Re-check proper torque on all U-bolts, and all hardware installed. Be sure that all installation procedures are performed correct.

SPECIAL NOTES.

***MAKE SURE EACH INSTALLATION PROCEDURE IS PERFORMED CORRECTLY.**

***MAKE SURE BRAKES ARE WORKING PROPERLY BEFORE DRIVING.**

***ALL NUTS AND BOLTS SHOULD BE CHECKED PERIODICALLY. DUE TO INCREASED ANGLES OF DRIVESHAFTS, U-JOINTS MAY HAVE TO BE REPLACED MORE FREQUENTLY.**