



03-12 2500-3500 4x4  
03-08 Dodge 1500 4x4 Megacab  
Part #: CS-PAP-03-D / CS-PAP03-H  
5 Leaf Progressive Add-A-Pack

## 5 LEAF PROGRESSIVE ADD-A-PACK



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### **What's Included In the Kit**

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- 2 Qty 5 Leaf Progressive Add-A-Pack
- 4 Qty Center Pins
- 4 Qty 1/2" Nuts
- 4 Qty Zinc-Plated U – Bolts
- 4 Qty U Bolt Washers
- 4 Qty U Bolt Nuts

### **Tools Required**

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- 3/4" Socket
- 7/8" Socket
- 1/2" Inch Drive Socket Wrench or Breaker Bar
- 1/2" Drive Torque Wrench
- 2 "C" Clamps

## Installation Instructions

Note: Prior to installation, carefully inspect the vehicles steering and drive train components. Be sure to check ball joints, tie rod ends, pan-rod bar, and control arm bushings. Everything must be tight and in good working condition.

- \*We recommend installation be done by a trained professional.
- \*Read instructions carefully before attempting installation.
- \*Secure and properly block vehicle prior to installation.
- \* Re-torque all nuts and bolts Front and Rear after 500 miles to ensure tightness.

### Disassembly/Assembly

1. Raise the Rear of the truck. If working without a shop hoist, support truck with suitable safety stands. To do this put the truck in park, block front wheels; both in front and behind tires, then disengage emergency brake. Place floor jack underneath rear axle and raise truck. Place safety jack stands under the frame to support the truck and lower the truck onto jack stands. Remove rear wheels.
2. Use a floor jack to raise the rear axle just enough to take tension from the shocks and remove the bottom bolt (remove shocks completely if installing new shocks).
3. Remove rear U-bolts attaching rear axle to driver side leaf spring. Carefully lower rear axle. **DO NOT ALLOW AXLE TO HANG FROM ANY HOSES OR CABLES**
4. Secure spring assembly together with 2 C-clamps on outer edges of lower leaf. Do not include the thick leaf on the very bottom.
5. Remove the leaf spring center pin(s) and lower Overload Leaf. This is the 1" thick leaf that doesn't follow the contour of the other thinner leafs. Discard the Overload.
6. Install Carli Suspension 5 leaf Add-A-Pack using all factory spacer blocks with index button on the bottom. **Note: You may have to slightly loosen U-bolts on opposite side of the truck to droop axle enough for install of Add-A-Pack.**
7. Install Center Pins using  $\frac{3}{4}$ " socket Tighten center pin(s) and spring clips Tighten center pin(s) until the leaf pack is fully compressed. (2500's only, 3500's see below). **Note: 3500 Trucks equipped with an Upper Overload can retain this overload is desired. It will be necessary to permanently remove the  $\frac{3}{8}$ " x 3" long bolts on the square U-clamps that come attached to the Add-A-Packs. This will allow the Upper Overload to perform as designed. The U-bolts AND Center Pins are not guaranteed to be long enough; the installer should verify the U-bolts AND Center Pins will be long enough before disassembly of the rear.**
8. Carefully raise axle until spring meets the axle perch. Make sure center pin(s) are aligned in axle perch correctly.
9. Re-mount axle to spring using supplied U-bolts, washers and nuts. Using a  $\frac{7}{8}$ " Socket Torque U-bolt nuts to 110 ft.-lbs.
10. Repeat steps 3 through 9 on passenger side.
11. Install rear wheels, torque to OEM specs and lower the truck to the ground.
12. You may now install rear shocks.

## **Factory Torque Specs**

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Shock Absorber Upper Nut	40ftlbs
Shock Absorber Lower Bolt	100ftlbs
Shock Tower to Frame	55ftlbs
Lower Ball Joint Nut Initial Torque	35ftlbs
Lower Ball Joint Nut Final Torque	148ftlbs
Upper Ball Joint Nut	70ftlbs
Lower Control Arm Frame Nuts	200ftlbs
Lower Control Arm Axle Nut	200ftlbs
Upper Control Arm Frame Nuts	120ftlbs
Upper Control Arm Axle Nut	120ftlbs
Stabilizer Bar Frame Bolt	45ftlbs
Stabilizer Link Axle Bracket	110ftlbs
Stabilizer Link Stabilizer Bar Nut	27ftlbs
Stabilizer Link Axle Bracket (Power Wagon)	110ftlbs
Stabilizer Bar Nut (Power Wagon)	110ftlbs
Hub/Bearing Bolts	149ftlbs
Axle Nut	132ftlbs Beginning 263ftlbs Final Torque
Track Bar to Frame (2500/3500 4x4)	200ftlbs
Track Bar to Axle (2500/3500 4x4)	200ftlbs
Tie Rod End Nut	55ftlbs
ABS Assembly Mounting Bolts	11ftlbs
ABS Assembly ABM Screws	31 inlbs
ABS Assembly Brake Line Fittings	170 inlbs
Dynamics Sensor	97 inlbs
Wheel Speed Sensors, Front Sensor Bolt	190 inlbs
Wheel Speed Sensors, Bracket To Knuckle	60 inlbs
Wheel Speed Sensors, Rear Sensor Stud	200 inlbs
ABM Mounting Screws	53 inlbs
RWAL Module Mounting Bolts	11ftlbs
RWAL Valve Brake Line Fittings	170 inlbs
Rear Wheel Speed Sensor Mounting Bolt	200 inlbs
Brake Booster Mounting Nuts	21 ftlbs
Master Cylinder Mounting Nuts	160 inlbs
Reservoir Retaining Screws	6 ftlbs
Caliper Bleed Screws	14 ftlbs
Caliper Mounting Pins, Front	24ftlbs
Caliper Mounting Pins, Rear	22 ftlbs
Caliper Adapter Mounting Bolts, Front (1500)	130ftlbs
Caliper Adapter Mounting Bolts, Front (2500/3500)	275ftlbs
Caliper Adapter Mounting Bolts, Rear (1500)	120ftlbs

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Caliper Adapter Mounting Bolts, Rear Upper (2500 and 3500)	163ftlbs
Caliper Adapter Mounting Bolts, Rear Lower (2500 and 3500)	190ftlbs
Junction Block Bolts, Front (1500)	14ftlbs
Junction Block Bolts, Rear (1500)	18ftlbs
Junction Block Bolts, Rear (2500/3500)	7.5ftlbs
Brake Pedal Assembly Bracket Bolts (1500)	23ftlbs
Brake Pedal Assembly Bracket Nuts (2500/3500)	21ftlbs
Support Plate Mounting Bolts/Nuts (1500)	75ftlbs
Support Plate Mounting Bolts/Nuts (2500/3500)	150ftlbs
Brake Line Fittings, Master Cylinder	14ftlbs
Brake Line Fittings, Junction Block (Both)	14ftlbs
Caliper Brake Line Banjo Bolt, Front	20ftlbs
Caliper Brake Line Banjo Bolt, Rear	20ftlbs
Brake Hose Bolts To Frame, Front	7.5 ftlbs
Brake Hose Fitting	14ftlbs
Parking Brake Pedal Assembly (1500)	18ftlbs
Parking Brake Pedal Assembly (2500/3500)	14ftlbs
Hub/Bearing Bolts (1500)	120ftlbs
Rotor to Hub Bolt, Rear (2500 and 3500 DRW)	114ftlbs
Extension to Rotor Nut, Front (2500 and 3500 DRW)	128ftlbs
Hub/Bearing Bolts, Front (2500 and 3500 4X2)	130ftlbs
Pitman Arm Gear Shaft Nut (2500, 3500)	177ftlbs
Drag Link to Pitman Arm (2500, 3500)	100 ftlbs
Drag Link to Tie Rod (2500, 3500)	100 ftlbs
Drag Link Adjuster Clamp (2500, 3500)	40 ftlbs
Tie Rod End to Knuckle (2500, 3500)	78 ftlbs
Tie Rod End Adjuster Clamp (2500, 3500)	40 ftlbs
Stabilizer Bar Link to Axle (2500, 3500)	50 ftlbs
Steering Damper to Axle or Linkage(2500, 3500)	75ftlbs
Steering Damper Bracket U-Bolt Nuts (2500, 3500)	45 ftlbs
Track bar to Axle - M16 fastener (2500, 3500)	200 ftlbs
Track Bar to Frame - M16 fastener (2500, 3500)	200 ftlbs
Lug Nut 9/16 X 18 with 60° Cone	130 ftlbs
Lug Nut 9/16 X 18 with 60° Cone (2500, 3500 - SRW)	140ftlbs
Lug Nut 9/16 X 18 with Flat Washer (3500 - DRW)	145ftlbs
Lug Nut 9/16 X 18 with Flat Washer (4500, 5500 - DRW)	148ftlbs
Spare Tire Winch	15ftlbs
Jounce Bumper Bolts	21.5ftlbs
Shock Absorber, Lower Nut/Bolt	100ftlbs
Shock Absorber, Upper Nut/Bolt	100ftlbs
Spring Clamp U-Bolt Nuts	110ftlbs

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Spring Front Nut/Bolt to Frame

254.5ftlbs

Spring Shackle Nut/Bolt, Upper/Lower

160ftlbs