

# INSTALLATION CHECK LIST

# DS120R/DS135R

Installer:		Installation Date:	
Inspector:		Inspection Date:	
Suspension S/N:		VIN:	

**FRAME PREPARATION:**

- Battery Disconnected
- Upper Strut Mount, Track Rod Frame Mount, and Secondary Volume Assy holes drilled.

**FRONT HANGER INSTALLATION:**

- Front Hangers are flush to bottom of frame.
- 5/8"-11 Nuts torqued to **172-210 ft-lbs.**
- 1/2"-13 Nuts torqued to **86 – 105 ft-lbs.**

**SWAY BAR LINKAGE INSTALLATION (2012 and prior models only):**

- M10-1.5 Nuts torqued to **43-53 ft-lbs.**
- Swaybar End Fasteners torqued to **55 ft-lbs.**

**UPPER STRUT MOUNT/CROSS MEMBER REINFORCEMENT/TRACK ROD FRAME MOUNT INSTALLATION:**

- Upper Strut Mounts level with top of frame.
- Cross member Reinforcement orientated correctly.
- Bolts point outboard, away from fuel tank.
- 5/8"-11 Nuts torqued to **172-210 ft-lbs.**
- 1/2"-13 Nuts torqued to **86-105 ft-lbs.**
- 3/8"-16 Fasteners torqued to **35-43 ft-lbs.**

**AXLE CLAMP/TRACK ROD BRIDGE INSTALLATION:**

- Slanted U-Bolts orientated correctly
- 3/4"-16 U-Bolts torqued in stages up to **295 ft-lbs.**
- 5/8"-18 Slanted U-Bolts torqued to **180 ft-lbs.**
- 1/2" Fasteners torqued to **86-105 ft-lbs.**
- 5/8" Fasteners torque to **172-210 ft-lbs.**
- Brake flexible lines reattached and torqued to **18 ft-lbs.**
- Parking Brake Cable Brackets torqued to **20-24 ft-lbs.**

**CONTROL ARMS INSTALLATION:**

- Lower Control Arms correctly orientated.
- 1"-8 Nuts torqued to **600 ft-lbs,** at ride height.

**TRACK ROD INSTALLATION:**

- 5/8"-11 Nuts torqued to **172-210 ft-lbs.**

**STRUT INSTALLATION:**

- 1"-8 Upper Nuts torqued to **600 ft-lbs.**
- 1"-8 Lower Nuts torqued to **250 ft-lbs.**

**JOUNCE BUMPER INSTALLATION:**

- 3/8"-16 Bumper Adapter Plate Screw torqued to **35 ft-lbs.** (2013 and newer models only)
- M10-1.5 Bolt torqued to **43-53 ft-lbs.**

**HEIGHT SENSOR INSTALLATION:**

- 5/16"-18 Nuts torqued to **14-17 ft-lbs.**
- Linkage Locks installed.

## **PARKING BRAKE CABLE INSTALLATION:**

- Parking brake cable rerouted.
- Wire formed brackets reattached.

## **POWER MODULE/SECONDARY VOLUME INSTALLATION:**

- M10-1.5 Nuts torqued to **43-53 in-lbs.**
- 1/2"-13 Nuts torqued to **144 in-lbs.**
- 3/8"-16 Screws torqued to **39 ft-lbs.**
- Reservoir Mount Self Tapping Screws tightened to **snug only.**
- 5/16"-24 Clamp Fasteners torqued to **240 in-lbs.**
- Replaced top plug with Breather Cap.

## **HOSE INSTALLATION:**

- Bulkhead Fitting Locknut torqued to **85-95 ft-lbs.**
- 4 Hose Fittings torqued to **12 ft-lbs.**
- 10 Hose Fittings torqued to **36-63 ft-lbs.**
- Bleed Screws closed and torqued to **13-18 ft-lbs.**
- Hoses secured with standoffs.

## **STEERING SENSOR INSTALLATION:**

- OEM Nuts torqued to **194-238 ft-lbs.**
- 5/16"-18 fasteners torqued to **14-17 ft-lbs.**
- 1/4"-20 U-bolt nuts torqued to **60-85 in-lbs.**
- Linkage Locks installed.
- Steering sensor harness attached and routed.

## **WIRING HARNESS INSTALLATION:**

- DGE Installed (2012 and prior only)
- Dash harness installed
- All appropriate wiring splices made.
- OEM Connector plugged into Upfitter Port 2.
- Driver Interface installed and connected to Dash Harness.
- External harness routed and secured.
- External harness connected to Rate Valves, Height Sensors, and Steering Sensor.
- Battery harness installed with Fuse Lead and connected to Battery and Power Module.
- Door harness installed (if equipped with rear door switch).
- All connections sealed.
- All harnesses properly secured from chaffing, heat, and located away from moving parts..

## **INITIAL FILL/CALIBRATION:**

- Battery connected.
- Suspension rose to ride height.
- Reservoir at proper level.
- Calibration completed.