

# INSTALLATION CHECK LIST

DS135N

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.

**AXLE PREPARATION:**

- Weld Track Rod Mount to Axle
- OEM M14 Bolts reinstalled and torqued to 130 ft-lbs.

**FRONT HANGER INSTALLATION:**

- Front Hangers are level with framerail.
- 5/8"-11 Nuts torqued to **172-210 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 oriented per Installation Manual Views.
- 5/8"-11 Nuts torqued to **172-210 ft-lbs.**
- 1/2"-13 Nuts torqued to **86-105 ft-lbs.**
- OEM brake brackets reattached to crossmember and torqued to **18 ft-lbs.**
- Brake flexible lines attached to Upper Strut Mounts with 3/8" clamps and torqued to **18 ft-lbs.**
- Removed OEM rear crossmember [Only DS135N-AF, front mount fuel tank version].

**AXLE CLAMP INSTALLATION:**

- 3/4"-16 U-Bolts torqued in stages up to **295 ft-lbs.**

**CONTROL ARMS INSTALLATION:**

- Lower Control Arms correctly orientated.
- 1"-8 Nuts torqued to **600 ft-lbs**, at ride height.
- 5/8"-11 Nuts torqued to **172-210 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:**

- M10-1.5 Bolts torqued to **35 ft-lbs.**

**HEIGHT SENSOR INSTALLATION:**

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

**PARKING BRAKE CABLE INSTALLATION:**

- Parking brake cable reattached to axle.

## POWER MODULE/SECONDARY VOLUME INSTALLATION:

- 1/2"-13 Nuts torqued to **86-105 ft-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 fender well bracket bolts torqued to **33 ft-lbs.**
- Ball Stud Bracket on Pitman arm positioned **4" ±1/8"** down from CL of gearbox shaft.
- 1/4"-20 fasteners torqued to **10 ft-lbs.**
- 5/16"-18 fasteners torqued to **14-17 ft-lbs.**
- Clearance to steering sensor components when wheels are turned full left and full right.

## WIRING HARNESS INSTALLATION:

- Dash harness installed
- All appropriate wiring splices made.
- Driver Interface installed and connected to Dash Harness.
- External harness routed and secured.
- External harness connected to Rate Valves, Height Sensors, Steering Sensor.
- Speed signal from dash harness installed into vehicle ECU connector or K47B wire on 12VZA circuit.
- 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.