

Rev.	Date	ECN No.	Comment	Title
0	11/19/2019	E-1183	Initial Release	<b>Level-It Pneumatic Sway Assist Installation &amp; Tuning</b>

## Procedure

- 1 **WARNING!** Vent pressure from shock/strut upper chambers before installation. Lower chamber pressures, if so equipped, do not need to be vented.

- 2 **Installation**

- 2.1 Mount Level-It unit either to a horizontal bar or crossbar using the mounts provided. Hose fittings must be on the bottom side of the Level-It unit. Secure only snugly until unit is leveled.

*Or you can weld tabs to your frame. Drill clearance for 3/8" cap screws.*



- 2.2 Level vehicle to within  $\pm 1^\circ$  before final tightening of the Level-It unit.
- 2.3 Level the unit to within  $\pm 1^\circ$  or level with vehicle horizontal bar.
- 2.4 Tighten mounting brackets to vehicle bar and brackets to Level-It unit in an alternating pattern to relieve any binding. Recheck unit level.
- 2.5 Attach T-fittings either at the strut upper caps or at the Level-It unit,



depending where you would like to have the Schrader valves located for easiest access. The Schrader valve will be installed into the T-fitting.

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2.6 Remove both pipe plugs from the two ports at bottom of Level-It unit while the ports are facing up to avoid losing oil from the unit.

2.7 Install and tighten the provided fittings and hoses, left-side hose to left-side Level-It cylinder, then right side in same manner.

- Use high-pressure thread sealant or Teflon tape on taper pipe fittings.
- Do not apply sealant or tape to the swivel hose end and flare fitting. This is a metal-to-metal seal.

2.8 Secure hoses with zip ties or other suitable method.

**Warning!**

- *Keep hoses away from direct contact with hot components.*
- *Do not cross hoses from left-side shock/strut to right-side Level-It cylinder.*

2.9 Refill shock/strut with nitrogen gas to desired pressure and ride height.

**3 Tuning**

3.1 The Level-It unit comes with the proper amount of oil (160cc in each cylinder); however, oil can be added or removed to tune the spring rate of the shock/strut.

3.1.1 Add up to 100cc oil each side of Level-It unit to stiffen spring rate and resistance to body roll.

3.1.2 Any amount, or all oil may be removed from the Level-It unit to soften the spring rate and soften overall ride; however, this will lessen the leveling performance and increase body roll.

3.1.3 Oil in the Level-It cylinders will automatically transfer to the shock/strut after a few pumps of the piston shaft, but only if the hose fittings are oriented at the bottom of the unit.

**4 End**