

HYMARK TVM INSTALLATION INSTRUCTIONS

Note: Have all the following tools ready for installation:

Floor Jack,

1/2" - 3/4" Deep socket

3/16" Allen Head Wrench

8mm Box End Wrench

3/16" Drill Bit and Drill

1/2" x 10mm Ball End Socket Head Wrench

6mm or 5/8" Box End Wrench

15mm Box End Wrench

3/8" x 4mm Socket Head Socket

3/8" x 6mm Socket Head Socket

1/2" x 30mm Deep Socket

1 Tube of Lucas Red & Tacky Grease & Grease Gun

Tube of 242 Blue Loctite

1/2" Torque Wrench

Hand Grinder and a Bag Zip Ties.

INSTRUCTIONS:

1. Place the vehicle in park.
2. Loosen the front left (Driver) lug nuts while vehicle is on the ground.
3. Jack up the front left wheel off the ground by placing the floor jack under the lower A arm.
4. Remove the 5 lug nuts and wheel and tire.
5. Using 3/16" drill and bit, drill out the rivet holding the brake line to the L shape brake bracket.
6. Remove the brake bracket from the hub using the 8mm box end wrench.
7. Using the 16mm or 5/8" box end wrench, remove the bolts holding the brake caliper to the hub.

CAUTION: Do NOT remove the caliper from the brake rotor.

8. Using zip ties or wire hold the brake caliper and brake rotor together and remove the brake rotor with caliper attached from the unit bearing assembly, Set the assembly on top of the top A arm making sure to not kink the brake line. Attach the assembly to the top A arm with zip tie.
9. Using 1/2" x 30mm socket, use ratchet or brake over bar to remove axle nut.
10. Using the 10mm socket head wrench, remove the (4) 12mm socket head bolts. Then remove the stock unit bearing assembly.
11. Open the TVM box label "A". Remove the packaging and take one of the TVMs out of the box.
12. Using the 4mm Allen head wrench; Remove the (5) stainless screws and remove the hub centric cover plate with O ring.
13. Put a small amount of 242 Blue Loctite on the (4) 12mm Allen head bolts.
14. Take one of the "A" labeled TVM and install it over the greased axle spline. Avoid getting grease on the axle threads as the axle nut will be attached using Loctite. The TVM should slide against knuckle by hand. Rotate the TVM 90° and try again if the TVM does not slide on the splines easily against the knuckle. Continue rotating until the TVM slides on easily. Hand tighten the TVM to the front knuckle and then torque bolts to 90 lbs./ft.
15. Apply blue Loctite into the axle nut. Install the axle nut using the 30mm deep socket and torque 120 lbs./ft
16. Grease the inside of the TVM using Red and Tacky grease. Fill the voids with grease including axle nut area. See photo from step 33.
17. Install the "O" ring in the "O" ring groove.
18. Install the hub centric cover with the (5) stainless screws and tighten using the 4mm socket head socket. CAUTION: Do NOT over tighten these screws.
19. Torque the (10) 6mm Allen head bolts to 14 lbs./ft. Or, 168-inch lbs.
20. Install the front brake adapters to the brake caliper with bolts provided. Leave the bolts loose.
21. Install the (5)12mm wheel studs into the TVM housing using the stud installing tool provided. The short end of the stud goes in the TVM.
22. Reassemble the brake rotor over the studs. Attach the brake brackets to the hub using a 16mm or 5/8" socket head wrench. The brackets should face forward. Tilt the bracket just enough to have a small amount of clearance between the TVM and the brake caliper. Tighten all 4 bolts.
23. Install the tire and wheel assembly and torque lug nuts to 90 lbs./ft. Then remove the floor jack.
24. Place the floor jack under the driver side Rear Trailing Arm and remove the tire and wheel.
25. Bend the brake line banjo fitting to a 45-degree angle away from the brake caliper (see photo).



26. Remove the brake caliper from the brake rotor using the 15mm box end wrench.

27. Remove the axle nut.

28. Remove the bolts holding the unit bearing to the knuckle and remove the unit bearing assembly from the knuckle.

29. Using a hand grinder, grind a little material from the knuckle below the two wide spaced holes where the outside diameter of the TVM would rest. This grinding lets the TVM tighten flat against the knuckle (see photo).



30. Remove the hub centric cover from the other "A" labeled TVM.

31. Install the TVM over the greased axle splines. Avoid getting grease on the axle threads as the axle nut will be attached using Loctite. The TVM should slide against knuckle by hand. Rotate the TVM 90° and try again if the TVM does not slide on the splines easily. Continue rotating until the TVM slides on easily. Hand tighten the TVM to the rear knuckle and then torque bolts to 90 lbs./ft.
32. Install axle nut with a small amount of 242 Blue Loctite and torque to 120 lbs./ft.
33. Fill voids in the TVM with grease.



34. Install hub centric cover with the (5) stainless screws. CAUTION: Do NOT over tighten screws.
35. Install stud in the TVM with stud installing tool (see photo).



36. Torque the (10) 6mm Allen head bolts to 14 lbs./ft. or 168-inch lbs.
37. Install the rear brake caliper adapters to the brake caliper, using bolts provided.

38. Install the brake rotor over the wheel studs.
39. Install the brake caliper onto the brake rotor and attach adapter brackets to the knuckle using stock retaining bolts with adapter facing the rear. Then tighten all bolts.
40. Install tire and wheel to TVM and torque lug nuts to 90 lbs./ft.
41. Remove jack and repeat all steps for the passenger side of the vehicle using TVMs labeled with the letter "B".