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<b>PRODUCT INFORMATION BULLETIN</b>		
<b>DATE ISSUED</b>		<b>PIB #</b>
<b>03/01/2011</b>	<b>DIESEL EQUIPMENT R34-JH INSTALLATION INSTRUCTIONS</b>	<b>015</b>
<b>YEAR / BRAND / TYPE / MODEL #</b>		
<p>This information is for all Class A motorhomes that have Diesel Equipment's Wiper System installed.</p>		
<b>PRODUCT INFORMATION</b>		
<p>Diesel Equipment's Wiper System is installed on the following coaches:</p> <ul style="list-style-type: none"><li>• 2003-2009 ATME</li><li>• 2003-2009 KSDP</li><li>• 2003-2008 BSCA</li><li>• 2003-2008 CSCA</li><li>• 2007-Current VTDP</li><li>• 2007-Current DSDP</li><li>• 2011-Current MADP</li><li>• 2012-Current VLDP</li></ul> <p>Please review the attached installation and torque instructions when servicing and installing Diesel Equipment's Wiper System.</p> <p><b>NOTE: Please ensure the 10mm pivot nut is torqued a second time to 35 ft. lbs. 30 minutes after installation (Step 18).</b></p>		

If you have any questions regarding this P.I.B., please contact a Warranty Service Representative at Newmar Corporation.

# INSTALLATION DOCUMENT *R34-JH*

## RADIAL WIPER SYSTEM INSTALLATION (DINN PIVOTS)

1. Recommend to have dimples installed in form for front cap using a master template to ensure consistent and accurate hole location for wiper pivot shafts, also recommended to have a minimum of ½" backer board "glassed" into the cap at each pivot mounting point and motor mounting location.
2. Identify location for Passenger's side pivot. Drill .8125" (13/16") hole for passenger pivot. Measure approx. 34-1/8" to the right from the center of the passenger pivot hole. This will be the location for the Driver's side pivot. Measuring 2.60" right or left of the pivot hole drill (1) 5/16" hole at each pivot location. This will be for the washer hose barbs. **NOTE: 34 1/8" dimension may change due to radius value in front cap.**
3. Position wiper system assembly inside cap and push pivots through the 13/16" holes in cap.
4. With wiper system in position, screw (2) #12x 3/4" screws through the mounting holes in the stringer plate into the supporting backer board. Repeat process on opposite side. (See Illustration # 1)
5. Install pivot hardware as shown in Illustration # 1.
  - a. 20mm rubber washer
  - b. 20mm flat washer
  - c. 20mm hex nut
6. Secure rear 20mm nut and tighten the outer 20mm nut to 20-30 ft. lbs. **NOTE: A lesser torque value may be required depending on the characteristics of the fiberglass in the cap.**
7. Once desired torque has been achieved at the outer 20mm nut, tighten the inner 20mm nut ½ - ¾ turn to engage 20mm lock washer.
8. Repeat steps 5 & 6 on opposite side.
9. Install dust boot on each pivot shaft.
10. On the inside of the cap, locate the chassis bracket(s). By using a minimum of (2) 3/16" screws, attach the upper chassis bracket (if equipped) to the cowl board. Once the bracket has been affixed to the cowl board tighten the (2) 5/16" bolts at the motor bracket. Repeat procedure with lower bracket to backer board if equipped. **NOTE: If no chassis bracket is equipped installer must secure motor bracket by using existing mounting holes located in stringer plate and motor bracket.**
11. Install wiper arm by removing the plastic head cover and position the wiper arm to the Lock-Back position. (See Illustration # 3) Slide the wiper arm onto the pivot shaft and install the 10mm washer & lock nut hand tight. Adjust the wiper arm to the working position and locate to the desired park position. **Torque 10mm nut to 35 ft. lbs.** Re-install plastic head cover and repeat procedure on opposite side.

ILLUSTRATION #1

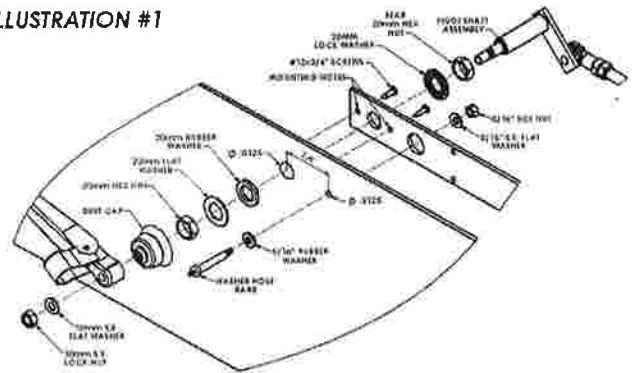
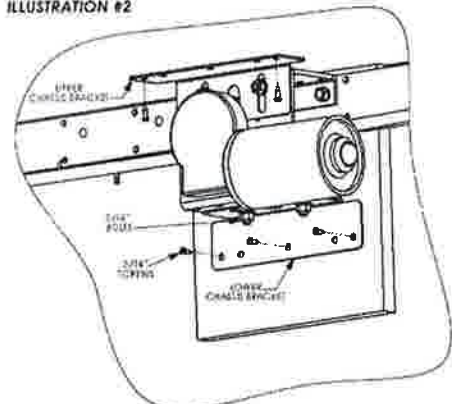


ILLUSTRATION #2



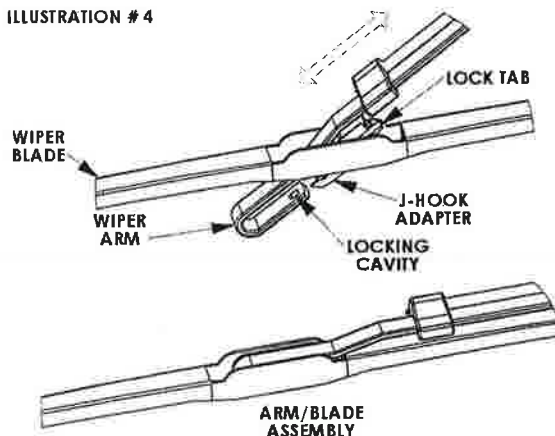
STEP 1- SECURE 3/16" SCREWS TO COWL & BACKER BOARDS.  
STEP 2- TIGHTEN 5/16" BOLTS AT EACH LOCATION (4) SECURING

ILLUSTRATION #3



12. Install wiper blade to wiper arm by first rotating the J-Hook adapter approximately 45 degrees. Slide the wiper arm through the wiper blade frame until the arm hook clears the J-Hook adapter. Push the wiper blade & adapter forward until the locking tab on the adapter engages the locking cavity located in the wiper arm. Repeat process on the opposite side. (See Illustration # 4)

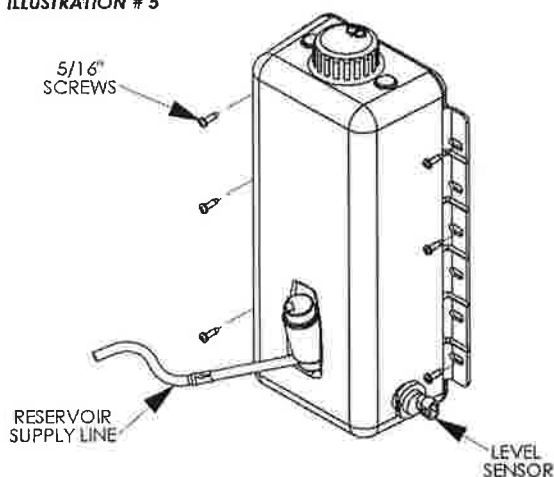
ILLUSTRATION # 4



13. Place the rubber washer onto the washer hose barb and insert into the 5/16" hole previously drilled for the hose barb. From the inside of the cap assemble the 5/16" flat washer and 5/16" nut onto the hose barb. **Torque 5/16" nuts to 15-20 in. lbs.** Repeat process on opposite side.

14. Install washer fluid supply line installed on wiper assembly to back side of the washer hose barb. Cut washer supply line on the wiper arm to the desired length and install on the front of the washer hose barb. Repeat process on the opposite side.

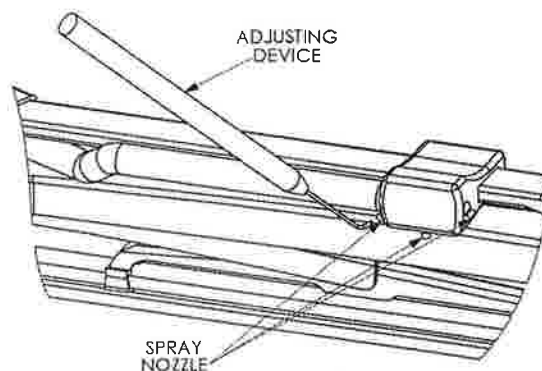
ILLUSTRATION # 5



15. Install washer reservoir. Identify mounting location and install (6) 5/16" screws as shown in Illustration # 5. Locate reservoir supply line on wiper assembly and attach to hose barb on the reservoir pump. Locate reservoir pump leads on wiring harness and connect to the washer pump. Locate level sensor leads (if equipped) and connect to the level sensor. Fill reservoir with the proper amount of fluid.

16. Adjust spray pattern at the wiper blade as needed. Insert device no larger than 1/32" into each spray nozzle cavity to adjust the spray direction to obtain sufficient coverage. (See Illustration # 6)  
**NOTE: O-RING PICK WORKS WELL.**

ILLUSTRATION # 6



17. Connect electrical connection and test wiper system for proper operation.
18. Re-torque 10mm pivot nut to 35 ft. lbs. 30 minutes after initial installation.
19. For proper operation install S.A.E. Type I 15 Amp. Circuit Breaker.