

# INSTALLATION INSTRUCTIONS

**RHI-1**  
**UNIVERSAL GOOSENECK MOUNTING KIT**

**MAXIMUM RATING**  
DO NOT EXCEED VEHICLE  
MANUFACTURER'S CAPACITY RATING  
FOR FIFTH WHEEL TOWING

**CAUTION: THIS IS A UNIVERSAL MOUNTING KIT. IT IS THE RESPONSIBILITY OF THE INSTALLER TO SELECT A STRUCTURALLY SAFE LOCATION FOR ATTACHMENT. DO NOT INSTALL THIS KIT ON TRUCKS WITH BOXED FRAMES.**

- (1) DETERMINE THE PROPER MOUNTING LOCATION FOR THE GOOSENECK HITCH ASSEMBLY. THE BALL SHOULD BE LOCATED IN THE CENTER OF THE TRUCK BED, 2" TO 6" AHEAD OF THE REAR AXLE. IF THE GOOSENECK HITCH IS EQUIPPED WITH SAFETY CHAIN LOOPS, POSITION THE HITCH WITH THE CHAIN LOOPS FACING THE TRUCK CAB. (IF SAFETY CHAIN LOOPS ARE USED WITH THIS KIT, HOLES MUST BE DRILLED IN CROSS ARMS FOR INSTALLATION.)

**NOTE: BE SURE HITCH IS POSITIONED TO ALLOW SUFFICIENT CLEARANCE BETWEEN THE FRONT CORNERS OF THE TRAILER AND THE CAB OF THE TRUCK WHEN TURNING.**

- (2) INSPECT THE UNDERSIDE OF THE TRUCK BED FOR POSSIBLE INTERFERENCE WITH VEHICLE CROSS MEMBERS, ELECTRICAL WIRING, FUEL LINES OR BRAKE LINES. IT MAY BE NECESSARY TO MOVE THE HITCH FORE OR AFT SLIGHTLY TO AVOID THESE OBSTRUCTIONS. BE SURE TO STAY WITHIN THE DIMENSIONS OUTLINED IN STEP (1).
- (3) POSITION THE HITCH ASSEMBLY IN THE TRUCK BED AND MARK FOR CUTTING. REFER TO THE INSTALLATION INSTRUCTIONS SUPPLIED BY THE HITCH MANUFACTURER FOR ADDITIONAL PRECAUTIONS AND RECOMMENDATIONS BEFORE CUTTING.
- (4) CUT AND DRILL THE TRUCK BED AS DESCRIBED IN THE HITCH MANUFACTURER'S INSTRUCTIONS. AGAIN, BE CERTAIN THAT THE HITCH BALL IS CENTERED LEFT TO RIGHT IN THE BED AND 2" TO 6" AHEAD OF THE REAR AXLE.
- (5) SET THE HITCH IN PLACE IN THE TRUCK BED. INSERT AT LEAST FOUR MOUNTING BOLTS (NOT PROVIDED WITH THIS KIT) INTO THE HITCH AND DOWN THROUGH THE TRUCK BED.
- (6) POSITION THE FRONT CROSS ARM ON TOP OF THE TRUCK FRAME WITH THE VERTICAL LEG OF THE ARM FACING FORWARD. LOOSELY ATTACH IT TO THE BOLTS INSTALLED IN STEP (5). REPEAT FOR THE REAR CROSS ARM WITH THE VERTICAL LEG FACING REARWARD.
- (7) POSITION EACH FRAME SUPPORT TO MOUNT TO THE OUTSIDE OF THE FRAME, CENTERED ON THE BOTTOM SIDE OF THE CROSS ARM. MARK THE FRAME AND CROSS ARM FOR DRILLING. REPEAT FOR ALL FOUR FRAME SUPPORTS.
- (8) DRILL EIGHT 1/2" HOLES IN THE TRUCK FRAME AS MARKED IN STEP (7). REMOVE THE TWO CROSS ARMS AND DRILL FOUR 21/32" HOLES AS MARKED IN STEP (7).
- (9) INSTALL THE FOUR 5/8" CARRIAGE BOLTS INTO THE CROSS ARMS AND TAP INTO PLACE WITH A HAMMER. REINSTALL THE CROSS ARMS AS IN STEP (6). FASTEN THE FOUR FRAME SUPPORT BRACKETS TO THE CROSS ARMS. ATTACH SUPPORT BRACKETS TO THE FRAME USING THE EIGHT 1/2" BOLTS PROVIDED.
- (10) MOUNT THE HITCH ASSEMBLY TO THE CROSS ARMS. IT MAY BE NECESSARY TO INSERT SHIMS BETWEEN THE HITCH AND THE TRUCK BED CORRUGATIONS TO PREVENT DISTORTION. (SHIMS AND MOUNTING BOLTS ARE NOT INCLUDED WITH THIS KIT.)

**TIGHTEN ALL FASTENERS TO THE TORQUE SPECIFICATIONS SHOWN BELOW.**

REVISED 1-24-03

<b>HARDWARE INCLUDED:</b>	4 - 5/8"-11 x 2" CARRIAGE BOLTS	8 - 1/2"-13 x 1 1/2" BOLTS
	4 - 5/8" LOCK WASHERS	8 - 1/2" LOCK WASHERS
	4 - 5/8"-11 NUTS	8 - 1/2"-13 NUTS

<b>BOLT TIGHTENING TORQUE (LB-FT)</b>			
<b>BOLT SIZE</b>	<b>TORQUE</b>	<b>BOLT SIZE</b>	<b>TORQUE</b>
1/2"	60 LB FT	5/8"	120 LB FT

**THIS PRODUCT COMPLIES WITH SAFETY SPECIFICATIONS AND REQUIREMENTS FOR VESC 19 AND OTHER FEDERAL MOTOR CARRIER SAFETY REGULATIONS.**