



Manufactured by
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SH 5032/5035/5089 JET BOAT STEERING SYSTEM INSTRUCTIONS

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INSTALLER: THESE INSTRUCTIONS CONTAIN IMPORTANT SAFETY INFORMATION AND MUST BE FORWARDED TO THE BOAT OWNER.

These instructions show you how to install a HELM Mounting Kit, HELM, and CABLE for a Jet boat steering system. This steering system is for use with small jet propelled boats using 2 cycle engines. IT IS NOT FOR USE WITH LARGE JET PUMPS USING AUTOMOTIVE V8 ENGINES. A complete system consists of the following components:

- Helm Assembly SH 5032 (315° Short Shaft), or SH 5035 (315° Long Shaft), or SH 5089 (270°)
- Cable Assembly(s) SSC221XX
- Cable Connection Kit SA39458

WARNING

* **BEFORE STARTING INSTALLATION READ THESE INSTRUCTIONS AND ENGINE MAKERS INSTRUCTIONS THOROUGHLY. FAILURE TO FOLLOW EITHER OF THESE INSTRUCTIONS OR INCORRECT ASSEMBLY CAN RESULT IN LOSS OF CONTROL AND CAUSE PROPERTY DAMAGE OR INJURY.**

* **DO NOT SUBSTITUTE PARTS FROM OTHER MANUFACTURERS, THEY MAY CAUSE A SAFETY HAZARD FOR WHICH TELEFLEX CANNOT ACCEPT RESPONSIBILITY.**

* **TO AVOID EXCESSIVE STEERING LOADS, AND TO GET THE BEST STEERING PERFORMANCE, THE WATER JET NOZZLE AND THE REVERSE GATE MUST BE ADJUSTED AS INSTRUCTED IN THE MOTOR MANUFACTURERS OPERATION MANUAL. FAILURE TO DO SO CAN AFFECT THE PERFORMANCE OF THE BOAT AND ITS SAFE OPERATION.**

NOTE: Helms and cable assemblies are supplied lubricated ready for installation, do not add any lubricant to either assembly. Use of other lubricants can cause damage to the steering cable, resulting in the cable seizing or premature wear. Keep the cable clean during installation. Dirt will damage the system and cause premature wear.

WARNING

HELMS MUST NOT BE DISASSEMBLED FOR ANY REASON. REMOVAL AND REPLACEMENT OF ANY HARDWARE MAY LEAD TO TOTAL FAILURE OF THE SYSTEM, WHICH COULD CAUSE PERSONAL INJURY AND OR PROPERTY DAMAGE.

CABLE ROUTING

When mounting the jet boat steering system it is important to determine cable routing first. When routing steering cables select a path with the minimum number of bends, making the bends as large a radius as possible. DO NOT MAKE BENDS LESS THAN 8 INCH RADIUS. Sharp or frequent bends will result in hard steering and premature cable wear. When it is necessary to pass through a bulkhead, a 3/4" minimum diameter hole is required. Cables should be supported at regular intervals.

CAUTION

CABLE MUST NOT BE BUNDLED TOGETHER WITH ELECTRICAL WIRING. CABLE MUST NOT REST ON SHARP EDGES WHICH CAN CAUSE CHAFING.

HELM MOUNTING BRACKET INSTALLATION

THE HELM MAY BE INSTALLED FOR EITHER PORT, STARBOARD, VERTICAL OR INLINE CABLE ENTRY. THIS IS DETERMINED BY THE TYPE OF ENGINE IN USE AND THE CONSTRUCTION OF THE BOAT. FIGURE 1 AND THE TEMPLATE SHOW A REFERENCE POINT TO ASSIST IN POSITIONING THE MOUNTING BRACKET. STUDY THIS CAREFULLY BEFORE DRILLING ANY HOLES. DIMENSIONS SHOWN IN FIGURE 1 AND THE TEMPLATE MUST BE MAINTAINED TO ENSURE PROPER CLEARANCES. Locate the position for the steering wheel on the console or dashboard. Using template (figure 4) oriented as determined by (Figure 1) mark location of holes. Drill three holes 6.60mm. (5/16") diameter and one hole 69.85mm (2 3/4") diameter. Place Mounting Bracket (item 1) in position on dash and fasten securely in place using Washers (item 5), Hex Bolts (item 3) and Locknuts (item 4).

CAUTION

BOLTS (ITEM 3) MUST BE INSTALLED WITH THE HEAD OF THE BOLT BEHIND THE DASHBOARD AS SHOWN IN FIGURE 2, TO PREVENT INTERFERENCE WITH THE ARM OF THE HELM.

Proceed to install helm and cables as shown in Figure 3.

