Dual Outboard Kit

Part # SA27252P

NOTICE!
Installer: These instructions contain important safety information and must be forwarded to the boat owner.

CAUTION!
This is a 'custom' kit and should be installed by an expert marine mechanic.

WARNING!
Read these instructions thoroughly before beginning installation. Failure to follow these instructions, or incorrect assembly could result in steering failure with subsequent personal injury and/or property damage.

In order to obtain the best steering performance, the outboard motor or outdrive must be installed and lubricated and the trim tab adjusted in accordance with the motor manufacturer and the boat manufacturer's specifications.

Check the contents of this kit against the parts list on this instruction sheet. Use parts supplied only as instructed on this sheet. Do not substitute parts or components from other steering manufacturers. They may cause a safety hazard for which Dometic cannot accept responsibility.

This kit contains the parts required to link two outboard motor tiller arms in dual engine installations and is for use with Johnson and Evinrude motors 35 HP and up.

Preparation for installation

1. Outboard motors must be installed and placed on centers according to the motor manufacturer's instructions and ABYC safety standards for small craft.
2. Set both motors in a dead-ahead position and adjust for any toe-in or toe-out in accordance with the motor manufacturer's instructions.

   Measure the center to center distance between attachment holes in tiller arms. Subtract 1-3/4" (44 mm) from that dimension to arrive at the proper tie bar length.
3. Cut tie bar (item 1) to the proper length, taking care not to damage the threads. Dress lead of thread with a file if necessary.

Tie bar assembly

1. Refer to figure 2. Thread one hex. nut (item 2) on to each end of tie bar (item 1) leaving approximately 2" (50 mm) of thread exposed.
2. Thread rod end (item 3) fully on to each end of tie bar, then back off equally until holes in rod ends align with tiller arm attachment holes.

CAUTION!
Do not exceed three full turns on each end.

3. Run hex. nuts up against rod ends, then gripping rod ends with vise grips or a similar tool, torque hex. nuts securely against rod ends to prevent unthreading.

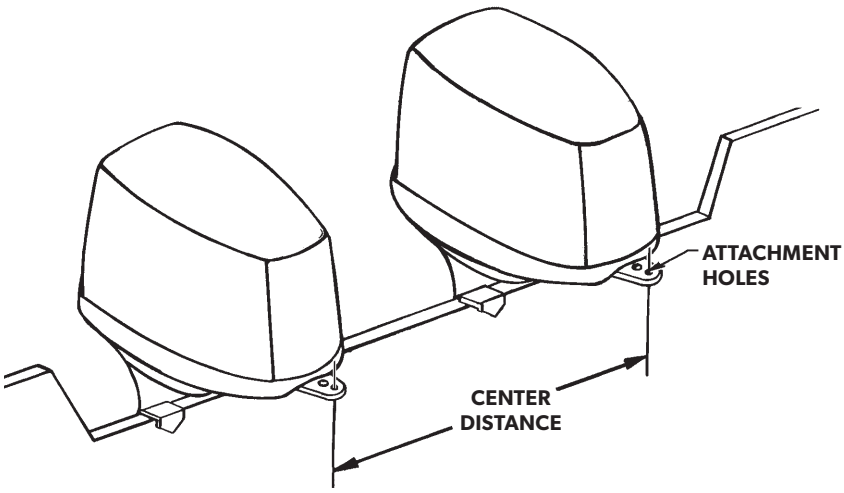

Figure 1.

Item No.	Description	Qty.
1	Threaded Tie Bar	1
2	Hex. Nut 1/2"–20	2
3	Rod End	2
4	Flange Bolt 3/8"–24 x 1-5/8"	2
5	Lock Nut 3/8"–24	2

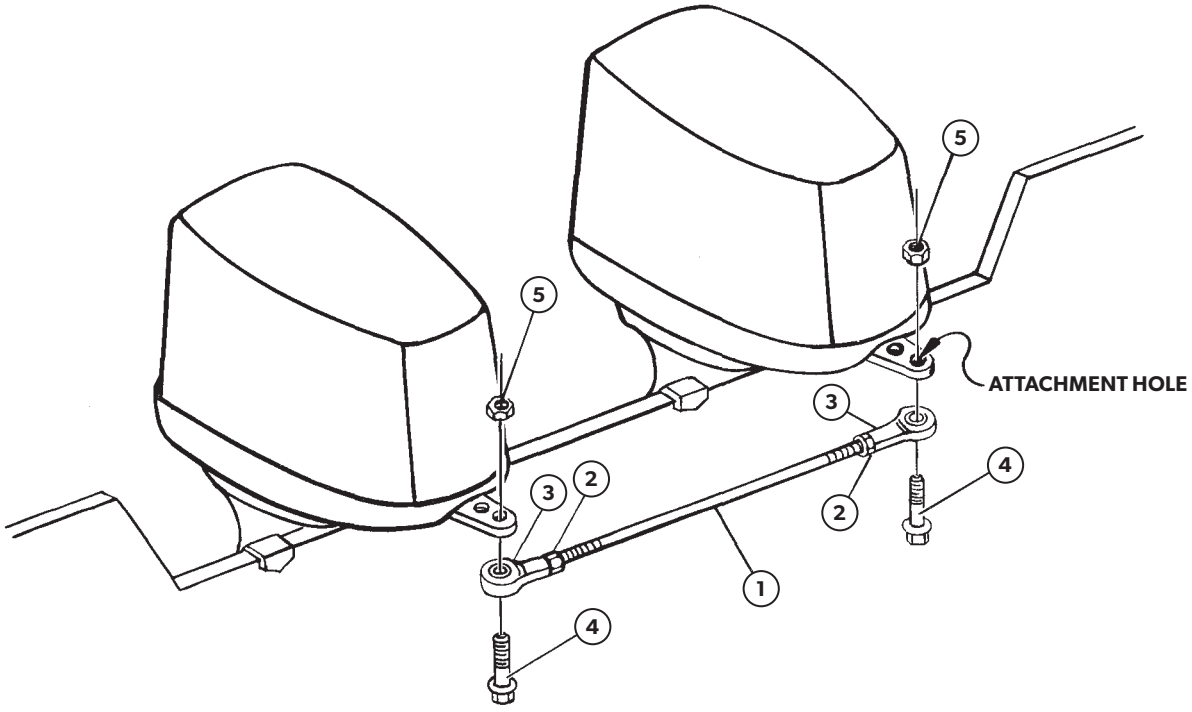

Figure 2.

CAUTION!
When torquing hex. nuts, rod ends must be kept in a parallel plane to allow for maximum pivoting during independent tilt and turn of motors.

Tie bar assembly installation

1. Place tie bar assembly in position beneath tiller arms and as shown in figure 2. Johnson/Evinrude tiller arms have two attachment holes. The tie bar assembly must be mounted in the outer holes. The inner holes (closest to motor) are for steering cable linkage.
2. Install one flange head bolt (item 4) upward through each rod end as shown, and thread into tiller arm attachment hole. Thread on locknuts (item 5) and torque hardware to 200 in. lbs. minimum. Do not exceed 250 in. lbs.

   The installation is now complete.

CAUTION!
Operate each engine independently through tilt and turn range to ensure that no binding occurs.

WARNING!
The boat should be operated with caution until the steering system has been thoroughly checked out under normal operating conditions to ensure that the installation is correct and complete.

Maintenance notes

1. After a few hours of operation following installation of this kit and periodically thereafter, re-torque all fasteners and check the steering for security and integrity.

WARNING!
Loosening or separation of one or more fasteners may cause failure of the steering system, resulting in property damage and personal injury.

2. Inspect periodically for corrosion. All metal parts meet or exceed applicable specifications for corrosion resistance. However, with extended operation under extreme conditions, corrosion may occur and affected parts should be replaced.

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