

GARMIN®

REACTOR™ 40 KICKER ADAPTER KIT 7

Installation Instructions

Getting Started

⚠ CAUTION

You must refer to the important safety information in the *Garmin® Reactor™ 40 Kicker Installation Instructions* before installing and using this product.

Failure to install and maintain this equipment in accordance with these instructions could result in damage or injury.

To use a Garmin Reactor 40 Kicker autopilot system with select Mercury® and Tohatsu™ motors, you must install the components in the Reactor 40 Kicker autopilot core pack and the components provided in this kit. For proper installation, you must use these instructions along with the instructions provided in the autopilot corepack.

NOTE: For the best results, the autopilot system should be installed by a knowledgeable marine installer familiar with your motor.

Installing the Steering Actuator

NOTE: To help understand how the steering actuator installs on your particular motor, you can view installation photographs online. Go to www.garmin.com/manuals/reactorkicker.

All of the parts needed to install the steering actuator and connect it to the motor are provided in the Reactor™ 40 Kicker corepack. This adapter is needed only to connect the throttle actuator to your motor.

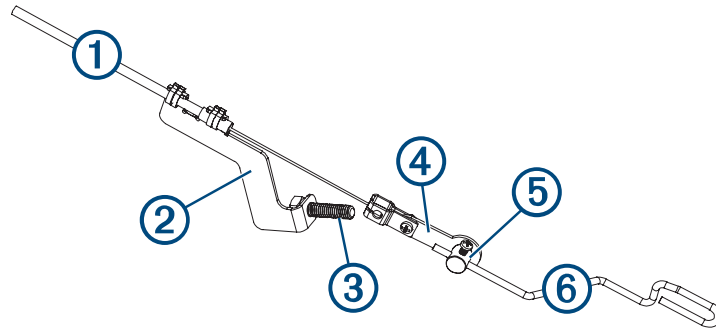
- 1 Following the instructions provided in the Reactor 40 Kicker corepack, prepare the motor and install the steering actuator in the tilt tube.
- 2 Following the instructions provided in the Reactor 40 Kicker corepack, install the motor bracket and connect the linkage arm to the motor bracket and steering actuator.

Installing the Throttle Actuator

NOTE: To help understand how the throttle actuator installs on your particular motor manifold and connects to the throttle, you can view installation photographs online. Go to www.garmin.com/manuals/reactorkicker.

- 1 Consult the *Reactor™ 40 Kicker Throttle Actuator Installation Instructions* provided in the corepack to understand the mounting and connection requirements of the throttle actuator.
- 2 Using the parts in this adapter kit, assemble the throttle linkage (*Assembling the Throttle Linkage, page 2*).
- 3 Connect the throttle actuator cable to the throttle linkage (*Connecting the Throttle Actuator Cable to the Throttle Linkage, page 3*).
- 4 Assemble the parts in this adapter kit and secure them to the motor (*Throttle Actuator Connections, page 2*).
- 5 Using the *Reactor 40 Kicker Throttle Actuator Installation Instructions*, complete and test the throttle actuator installation.

Throttle Actuator Connections

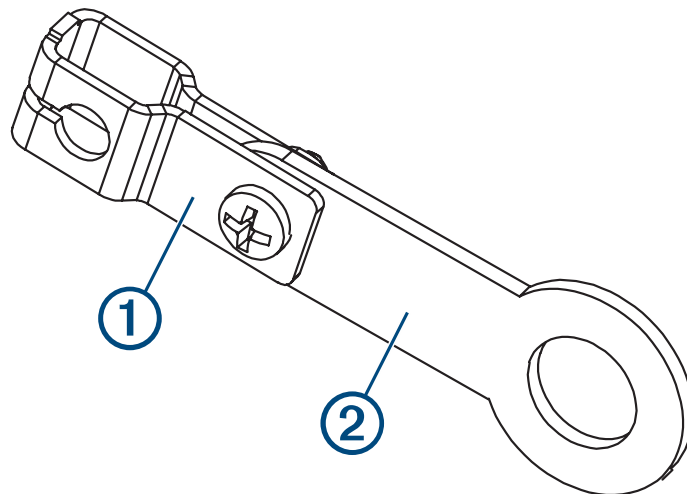


Number	Part	Notes
①	Throttle actuator cable (from the throttle actuator box)	You should connect the throttle actuator cable to the throttle linkage ④ before securing it to the throttle cable bracket ② (<i>Connecting the Throttle Actuator Cable to the Throttle Linkage, page 3</i>).
②	Throttle cable bracket	You must secure the throttle actuator cable ① to the throttle cable bracket using the included zip ties (<i>Securing the Throttle Actuator Cable to the Bracket, page 3</i>).
③	Manifold mounting location	You must remove the existing bolt on the manifold and use it to secure the throttle cable bracket ②.
④	Throttle linkage	You must assemble the throttle linkage before installing it (<i>Assembling the Throttle Linkage, page 2</i>).
⑤	Motor throttle lever	You must remove the set screw on the throttle lever to disconnect the tiller throttle linkage rod ⑥ and install the throttle linkage ④ and plastic washers.
⑥	Tiller throttle linkage rod	You must replace the existing tiller throttle linkage rod with the new rod provided in the parts bag. You should save the existing tiller throttle linkage rod in case you need to restore the motor to its factory configuration in the future. Two rods are provided in the parts bag. Select the longer or the shorter rod based on the length of the existing rod you are replacing.

Assembling the Throttle Linkage

The throttle linkage allows the throttle cable from the actuator to pull open the throttle lever on the motor.

- Using the parts provided in this adapter kit, place the throttle linkage bracket ① on the tapered end of the throttle linkage arm ②.



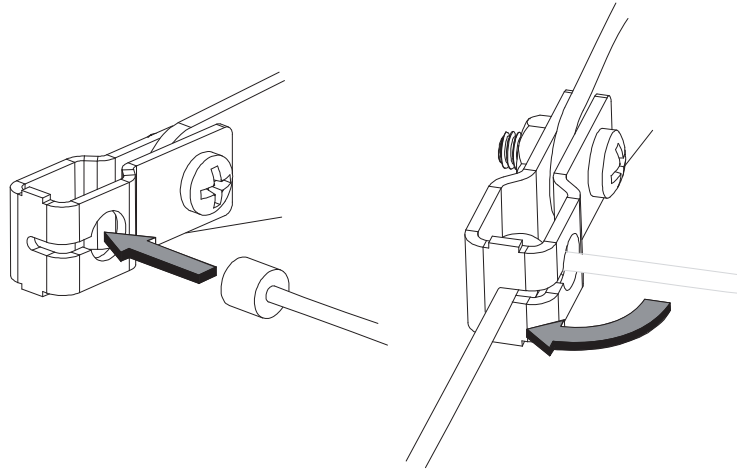
- Using the bolt and nut provided in this adapter kit, fasten the bracket to the arm.

- 3 Tighten the nut so the bracket is securely connected to the arm, but loose enough so the bracket moves freely.

Connecting the Throttle Actuator Cable to the Throttle Linkage

The throttle linkage is designed to hold the cable from the throttle actuator securely. Because of the design, you must connect the throttle actuator cable to the throttle linkage before you secure the parts to the motor.

- 1 If necessary, assemble the throttle linkage ([Assembling the Throttle Linkage, page 2](#)).
- 2 Place the round end of the throttle actuator cable into the hole on the end of the throttle linkage.

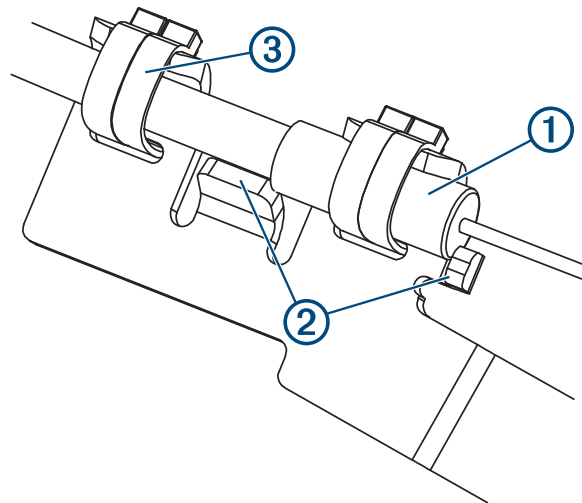


- 3 Rotate the cable so it feeds through the slot on the end of the linkage.

Securing the Throttle Actuator Cable to the Bracket

Before you secure the cable to the bracket, you should connect the end of the throttle actuator cable to the carburetor linkage ([Connecting the Throttle Actuator Cable to the Throttle Linkage, page 3](#)).

- 1 Place the raised portion of the throttle actuator cable ① into the bracket between the raised tabs ②.



- 2 Secure the cable to the bracket using the included zip ties ③.

Setting the Linkage Components for Proper Idle

After you install the throttle actuator components on the motor, you must adjust them so the motor idles correctly.

- 1 Loosen the throttle actuator bracket on the engine manifold until the throttle actuator does not pull open the throttle lever.
There should be obvious slack in the throttle actuator cable.
- 2 Adjust the tiller throttle to idle, start the motor, and complete an action:

- If the motor is not idling correctly, loosen the set screw on the throttle lever, adjust the tiller throttle linkage rod until the motor idles correctly, and tighten the set screw.
 - If the motor idles correctly, proceed to the next step.
- 3 Using the tiller throttle, increase the speed of the motor, and complete an action:
 - If the motor does not increase its speed and return to idle correctly, repeat the previous step to adjust the tiller throttle linkage rod.
 - If the motor increases its speed and returns to idle correctly, proceed to the next step.
 - 4 Adjust the position of the throttle actuator bracket until minimal slack remains in the throttle actuator cable and the motor idles correctly.
 - 5 Tighten the throttle actuator bracket on the engine manifold to set the cable tension.
 - 6 If necessary, turn off the motor.

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