

AUTOPILOT REFERENCE TABLE

Steering Type	Vessel Size/Type and Overall Use	Recommended Core Pack	Drive Unit Type	Components Included in Core Pack	Required Components not Included in Core Pack
Hydraulic	Premium, recommended option for most hydraulic steering installations, including Verado®, power assist and total cylinder volumes up to 24 cubic inches. Recommended for high use, rougher waters, high performance and slow speed applications	Reactor™ 40 Hydraulic Core Pack with SmartPump™ v2	SmartPump v2	Reactor 40 SmartPump v2 Shadow Drive GHC20	
Hydraulic	Low-cost option and single-cylinder applications with cylinder volumes from 6 to 14 cubic inches	Reactor 40 Hydraulic Autopilot	GHP 1.2L Pump	Reactor 40 ECU 10 Shadow Drive GHC 20	010-00705-64: GHP 1.2L Pump
Hydraulic	Low-cost option for dual-cylinder applications with total cylinder volumes from 10 to 24 cubic inches	Reactor 40 Hydraulic Autopilot	GHP 2.0L Pump	Reactor 40 ECU 10 Shadow Drive GHC 20	010-00705-63: GHP 2.0L Pump
Hydraulic	Cruising applications only; for single engine outboard vessels less than 30' long for cylinder sizes up to 10 cubic inches	Compact Reactor™ 40 with Pump, GHC 20™ and Shadow Drive Technology Pack	1.0L Pump	Reactor 40 Compact ECU 1.0L Pump Shadow Drive GHC 20	
Mechanical Steering	Total vessel displacements from 48,000 to 79,000 pounds	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Class B Linear Actuator	Reactor 40 ECU 12 GHC 20	010-11573-00: Class B linear actuator; has rudder feedback included
Mechanical Steering	Total vessel displacements up to 48,400 pounds	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Class B Compact Linear Actuator	Reactor 40 ECU 12 GHC 20	010-12029-00: Class B linear actuator; has rudder feedback included
Mechanical Steering	Total vessel displacements up to 28,500 pounds, with very low steering drag.	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Class A Linear Actuator	Reactor 40 ECU 12 GHC 20	010-11572-00: Class A linear actuator; has rudder feedback included
Mechanical Steering	Sailboats with non-Garmin drive units	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Third-party Drive Unit	Reactor 40 ECU 12 GHC 20	Third-party drive unit 010-11533-00: Actuator Motor Cable, 010-11829-00: GRF 10 Rudder sensor; or 010-11532-00 + third party rudder sensor.
Steer by Wire	SeaStar Optimus	Reactor 40 Steer-by-wire Standard Core Pack		Reactor 40 GHC 20	
Steer by Wire	ZF Pod Drive	Reactor 40 Steer-by-wire Standard Core Pack		Reactor 40 GHC 20	
Steer by Wire	Yanmar	Reactor 40 Steer-by-wire Standard Core Pack		Reactor 40 GHC 20	
Steer by Wire	Yamaha Helm Master	Reactor 40 Steer-by-wire Core Pack for Yamaha Helm Master	Gateway Included	Reactor 40 Autopilot Gateway GHC 20	
Steer by Wire	Volvo IPS or Sterndrive	Reactor 40 Steer-by-wire Core Pack for Volvo-Penta	Gateway Included	Reactor 40 Autopilot Gateway GHC 20	
Steer by Wire	Viking VIPER	Reactor 40 Steer-by-wire Core Pack for Viking Viper		Reactor 40 GHC 20	
Solenoid	Constant running hydraulic pump systems with solenoid autopilot control	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Third-party Solenoid Required	Reactor 40 ECU 12 GHC 20	010-11533-10: Solenoid Cable 010-11829-00: GRF 10 rudder sensor or 010-11532-00 plus third-party rudder sensor
Cable Steer	Most cable steered vessels	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Third-party 12VDC Brushed Motor Actuator Required	Reactor 40 ECU 12 GHC 20	010-11533-10: solenoid cable 010-11829-00: GRF 10 rudder sensor or 010-11532-00 plus third-party rudder sensor
Auxillary Gas Engine (Kicker)	<25HP auxiliary gas engines from most major manufacturers	Reactor 40 Kicker	Steering Actuator Included	CCU ECU Steering Actuator Throttle Actuator Wireless Remote	

The Wireless Remote with gesture control is an optional accessory compatible with all Garmin autopilots listed; requires GHC20 or supported chartplotters.

REACTOR 40 KICKER ENGINE COMPATIBILITY

Throttle control is designed for tiller configured outboards only. Compatibility for remote throttle control configurations may require customized installation. Steering control is designed for outboard models equipped with a tilt tube. Lower horsepower outboard motors without a tilt tube will not work with Reactor 40 Kicker.

Manufacturer	Motor HP	Year	Required Accessories
Yamaha	Carbureted T8, T9.9, F9.9	08-newer	Bag #1 included with R40 Kicker ¹
Yamaha	Carbureted 15, 20	07-newer	Bag #2 included with R40 Kicker ¹
Honda	Carbureted 8, 9.9	01-newer	Bag #5 included with R40 Kicker ¹
Honda	Carbureted 15, 20	03-newer	Bag #5 included with R40 Kicker ¹
Mercury	Carbureted 8, 9.9, 9.9 Bigfoot & Pro	06-newer	Bag #3 included with R40 Kicker
Mercury	EFI 15, 20	17-newer	Bag #4 included with R40 Kicker
Suzuki	EFI 9.9, 15, 20	14-newer	Suzuki Linkage Parts (010-12826-04), Sold separately
Tohatsu	Carbureted 8hp (MFS08A and up), Carbureted 9.8 (MFS9.8A and up)	03-newer	Bag #3 included with R40 Kicker ²
Tohatsu	Carbureted 9.9 (MFS9.9C and up)	08-newer	Bag #3 included with R40 Kicker ²
Tohatsu	EFI 9.9, 15, 20, 25	17-newer	Bag #4 included with R40 Kicker ²

¹Consider replacing the mild steel tilt tubes supplied by Yamaha and Honda with our stainless steel tilt tube (see accessories on Garmin.com). Yamaha and Honda tilt tubes will be more susceptible to corrosion and require more frequent cleaning and lube, especially when used in saltwater. Reactor 40 Kicker is designed for freshwater and saltwater use.

²For the purposes of Reactor 40 Kicker installation, consider Mercury and Tohatsu outboards to be the same.