Autopilot drive solutions for cable steered powerboats

OCTOPUS PRODUCTS - A WORLD LEADER IN THE DESIGN AND MANUFACTURE OF

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OCTOPUS PROFESSIONAL SOLUTIONS

OCTOPUS PRODUCTS - A WORLD LEADER IN THE DESIGN AND MANUFACTURE OF

PROFESSIONAL DISTRIBUTOR
Our innovative product range gives professional distributors / dealers the opportunity to offer the best solutions to their customers which gives added value to the installation and service supplied.

BOAT BUILDERS
Our highly experienced team can assist with solutions to boat builder production requirements including lean manufacturing techniques, and supply complete installation packs including all required parts and accessories.

AUTOPILOT MANUFACTURERS
Our highly experienced team can offer Autopilot manufacturers our personalized business model, where we provide engineering, prototyping and production support that is specifically designed to meet their needs, resulting in significant cost savings, increased reliability and innovation.

WHY OCTOPUS?
• Over 25 years experience designing and producing cutting-edge autopilot drive solutions
• Complete product solutions for all boat types (leisure & commercial) up to 120ft in length
• Unique drive designs for simple installation
• Integrated units, versatile and easy to install
• Customized products, compatible with all major autopilot brands
• We are committed to continuous product development and improvement
• 2 year warranty

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Type R mechanical remote drive - inboard systems

FOR INBOARD ENGINE POWERBOATS WITH MECHANICAL STEERING

EASY TO BUY
Everything you need supplied in one box - drive, 6ft steering cable and universal connection kit.

EASY TO FIT
The simple to mount installation kit and optional integrated rudder feedback make for easy fitting.

COMPACT
The remote drive unit has a tiny 0.25Ft² footprint and can be mounted in the most convenient location on your boat, horizontally or vertically.

RELIABLE & SAFE
Proven, tested design. The drive unit features a manual override without having to disengage the autopilot first.

COMPATIBLE WITH YOUR PILOT
The Type R Remote Drive System is compatible with all major brand inboard autopilot systems.

ACCESSORIES

For INBOARD ENGINE POWERBOATS WITH MECHANICAL STEERING

ACCESSORIES

OC15SUK19 Universal Connection Kit - 8.5in stroke (included in kit)

OC15SUK27 Universal Model for all autopilots

OC15SUK27A For Comnav & Simrad Autopilots
OC15SUK27B For Furuno & Navman Autopilots
OC15SUK27C For Raymarine Autopilots
OC15SUK27D For Coursemaster & Simrad Autopilots
OC15SUK27E Simrad Resistance to Frequency Conversion Kit - Required for Simrad Autopilots

OPTIONAL RUDDER FEEDBACK UNIT

One of the most complex and time-consuming aspects of autopilot installation is fitting the rudder feedback unit, ensuring that the geometry matches the full range of rudder movement. The Octopus rudder feedback unit solves these problems as it mounts directly to the drive unit itself.

UC1500 Universal Connection Kit - 8.5in stroke (included in kit)

UC1500-9 Standard Steering Cable x 9ft

UC1500-12 Standard Steering Cable x 12ft

UC1500-27 Universal Model for all autopilots

UC1500-27A For Comnav & Simrad Autopilots
UC1500-27B For Furuno & Navman Autopilots
UC1500-27C For Raymarine Autopilots
UC1500-27D For Coursemaster & Simrad Autopilots
UC1500-27E Simrad Resistance to Frequency Conversion Kit - Required for Simrad Autopilots

RUDDER FEEDBACK MODULES

UC1500 Universal Model for all autopilots

UC1500-9 Standard Steering Cable x 9ft

UC1500-12 Standard Steering Cable x 12ft

UC1500-27 Universal Model for all autopilots

UC1500-27A For Comnav & Simrad Autopilots
UC1500-27B For Furuno & Navman Autopilots
UC1500-27C For Raymarine Autopilots
UC1500-27D For Coursemaster & Simrad Autopilots
UC1500-27E Simrad Resistance to Frequency Conversion Kit - Required for Simrad Autopilots
**Type R mechanical remote drive - inboard systems**

**COMPACT AND CONVENIENT SOLUTION**

- Discreet installation - All components mounted out of sight
- Easy to fit - Can be located in very small spaces
- Performance - Responsive drive, little feedback resistance in Standby Mode
- Ideal for inboard engined boats up to 32ft (10m) - 13,200lbs (6,000kg)

**flexible installation, compact design**

**AUTOPILOT DRIVE UNITS**

- A range of solutions for outboard, inboard or sterndrive boats
- Makes difficult cable-steering installations simple
- No need to convert the boat to hydraulic steering
- Ideal for modern boats with limited below deck space
- All drives are completely hidden, no electronics exposed to the elements
- Compatible with all major brand autopilot systems

**TYPE S BEHIND DASH DRIVE**

The innovative Type S drive unit replaces the existing manual cable helm unit with a combined manual helm and autopilot drive unit. Because it is mounted behind the dash it is completely hidden for a professional-looking installation.

See pages 4 & 5

**TYPE T TILT BEHIND DASH DRIVE**

The Type T drive unit is for boats that require a behind-dash drive system but are currently fitted with tilt steering - this unit offers all the features of the Type S drive, while still allowing the tilt angle of the steering wheel to be adjusted.

See pages 4 & 5

**TYPE R REMOTE DRIVE**

The Type R remote drive offers a complete package solution for outboard, inboard and sterndrive engined powerboats with cable steering. The easy to fit packs contain everything you need to install the drive unit including steering cable, drive and fitting kit.

See pages 6 - 10
OPTIONAL RUDDER FEEDBACK UNIT

One of the most complex and time-consuming aspects of autopilot installation is fitting the rudder feedback unit, ensuring that the geometry matches the full range of rudder movement. The Octopus rudder feedback unit solves these problems as it mounts directly to the drive unit itself.

ACCESSORIES

- OC15SUK15A Installation Kit – Yamaha 115-220HP
- OC15SUK15B Installation Kit – Mercury-Mariner-Suzuki
- OC15109-6 Standard Steering Cable x 6ft
- OC15109-9 Standard Steering Cable x 9ft
- OC15109-12 Standard Steering Cable x 12ft

SUITABLE FOR MOST YAMAHA, MERCURY MARINER & SUZUKI ENGINES

INNOVATIVE DESIGN

Fitting an autopilot to outboard engined boats used to be a major problem, but not any more. The Type R Remote Drive can be located in a convenient location away from the exposed outboard engine and the optional integrated rudder feedback unit solves the often difficult problem of attaching a feedback unit to the complicated outboard engine geometry.

EASY TO FIT

The remote drive attaches to the outboard engine via a second steering cable (6ft/1.8m cable included - longer cables are available as separate accessories). The installation kit supplied fixes to the steering cylinder using existing fittings - no additional holes need to be drilled.

OUTBOARD PACK ORDER CODES

- MDRESYS-C Yamaha 115-220HP 1984 onwards
- MDRESYS-D Mercury Black Max 1980 onwards, Mariner 1980 onwards, Mercury/Mariner 2.4 (all models), Suzuki DT75-DT225, Suzuki DF60-DF140

SECOND CABLE LENGTH CALCULATION

All Type R packs are supplied with a 6ft (1.8m) steering cable. If this is not suitable then other lengths are available as separate accessories. Use a length of rope or cable to plan the steering cable route and then measure the total length required:

\[(A \text{ Dimension} + B \text{ Dimension}) - 4\text{in} \text{ for a 90º bend}\]

Round up the result to the nearest foot. See below for cable order codes.

REMOTE DRIVE DIMENSIONS

6in (150mm)

MINIMUM RADIUS

6in (150mm)

6in (150mm)

6in (150mm)

6in (150mm)

OPPORTUNITIES

- OC15SUK3T For ComNav & Sitas Autopilots
- OC15SUK3T8 For Raymarine Autopilots
- OC15SUK3T7D For Coursemaster & Simrad Autopilots
- OC15SUK3T For Garmin, Furuno, Navman & TMQ Autopilots
- OC15SUK83 Simrad Resistance to Frequency Conversion Kit – Required for Simrad Autopilots

RUDDER FEEDBACK MODULES

- OC15SUK27 Universal Model for all autopilots
- OC15SUK83 For ComNav & Sitas Autopilots
- OC15SUK3T8 For Raymarine Autopilots
- OC15SUK3T7D For Coursemaster & Simrad Autopilots
- OC15SUK3T For Garmin, Furuno, Navman & TMQ Autopilots
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ACCESSORIES

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- OC15109-6 Standard Steering Cable x 6ft
- OC15109-9 Standard Steering Cable x 9ft
- OC15109-12 Standard Steering Cable x 12ft
**Type R mechanical remote drive - outboard systems**

**SIMPLE SOLUTION FOR TRICKY INSTALLATIONS**

- Simple solution for tricky installations
- Easy to fit - Installation kit bolts to existing steering system, no drilling required!
- Time saving - Rudder feedback option mounts directly on drive
- Compatible with all major autopilot brand electronics

**outboard engine? no problem!**

**Type S/T mechanical dashboard drive specification**

**PROFESSIONAL SOLUTIONS FOR STERNDRIVE & OUTBOARD ENGINES**

**TYPE S BEHIND DASH DRIVE**

The Straight shaft drive unit replaces the manual drive used on cable steered boats and is mounted directly behind the dash. The drive is directly compatible with the Morse 290 steering helm but comes with its own bezel kit and can be retrofitted in most installations using the cable and steering wheel from the manual steering helm on the boat.

**SPACE REQUIRED - TYPE S & TYPE T**

- **TOP VIEW**

**OPTIONAL RUDDER FEEDBACK UNIT**

One of the most complex and time-consuming aspects of autopilot installation is fitting the rudder feedback unit, ensuring that the geometry matches the full range of rudder movement. The Octopus rudder feedback unit solves these problems as it mounts directly to the drive unit itself.

**ACCESSORIES**

- OC15SUK10 90 degree Bezel Mounting Kit for Type S Straight Shaft Drive
- OC15SUK09 20 degree Bezel Mounting Kit for Type S Straight Shaft Drive
- OC15SUK07 Steering Cable Adapter Kit for TFX 5SC72, Uflex M47, Morse 304415
- OC15SUK08 Steering Cable Adapter Kit for TFX 5SC62, Uflex M66
- OC15SUK11 Adjustable Friction Brake for Type S Straight Shaft Drive with 90° Bezel Kit
- OC15SUK16 Spacer Kit x 19mm for 90° Bezel Kit
- OC15SUK17 Spacer Kit x 16mm for 20° Bezel Kit
- OC15SUK18 Spacer Kit x 13mm for TFX Performance Tilt Mechanism (Type T)

**RUDDER FEEDBACK MODULES**

- OC15SUK27 Universal Model for all autopilots
- OC15SUK27A For Connav & Sitex Autopilots
- OC15SUK27B For Raymarine Autopilots
- OC15SUK27D For Coursemaster & Simrad Autopilots
- OC15SUK27E For Garmin, Furuno, Navman & TMQ Autopilots
- OC15SUK83 Simrad Resistance to Frequency Conversion Kit - Required for Simrad Autopilots
Type R mechanical remote drive - sterndrive systems

UNIQUE PILOT DRIVE FOR STERNDRIVE APPLICATIONS
LOW COST SOLUTION - No need to change to hydraulic steering
EASY TO FIT - Simple to install kits
TIME SAVING - Rudder feedback option mounts directly on drive
SAFE - Manual override without disengaging the autopilot
COMPATIBLE WITH ALL MAJOR AUTOPILOT BRAND ELECTRONICS

simple solutions for difficult installations

STERNDRIVE ENGINE

Type R mechanical remote drive - sterndrive systems

SUITABLE FOR MOST MERCRUISER AND VOLVO PENTA SYSTEMS

STRAIGHTFORWARD INSTALLATION
The Type R Remote Drive System makes sterndrive installations easy for both single or dual engine systems. The installation kit simply clamps to the steering cylinder with no drilling or cutting required. Two packs are available to suit the most common Mercruiser and Volvo-Penta sterndrive systems.

CURRENT MERCRUISER ENGINES, AND NORTH AMERICAN BUILT VOLVO PENTA GAS & DIESEL ENGINES

SINGLE ENGINE SYSTEM A
Order MDRESYS-A

DUAL ENGINE SYSTEM A
Order MDRESYS-A plus 9ft Cable (Fits most applications)

ALL EUROPEAN BUILT VOLVO PENTA DIESEL ENGINES

SINGLE ENGINE SYSTEM B
Order MDRESYS-B

DUAL ENGINE SYSTEM B
Order MDRESYS-B

ACCESSORIES

OC15SUK27 Universal Model for all autopilots
OC15SUK27A For Comnav & Sitex Autopilots
OC15SUK27B For Raymarine Autopilots
OC15SUK27D For Coursesmaster & Simrad Autopilots
OC15SUK27E For Garmin, Furuno, Navman & TMQ Autopilots
OC15SUK83 Simrad Resistance to Frequency Conversion Kit - Required for Simrad Autopilots

NOTES
- For older Mercruiser engines (pre-94) use System B (MDRESYS-B)
- Normal steering cables can also be used as supplied by Teleflex, Uflex and Multiflex

Optional Rudder Feedback Unit
One of the most complex and time-consuming aspects of autopilot installation is fitting the rudder feedback unit, ensuring that the geometry matches the full range of rudder movement. The Octopus rudder feedback unit solves these problems as it mounts directly to the drive unit itself.

Optional Rudder Feedback Unit

www.octopusmarine.ca
www.octopuseurope.com
UNIQUE PILOT DRIVE FOR STERNDRIVE APPLICATIONS

LOW COST SOLUTION - No need to change to hydraulic steering
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CURRENT MERCURY ENGINES, AND NORTH AMERICAN BUILT VOLVO PENTA GAS & DIESEL ENGINES

SINGLE ENGINE SYSTEM A
Order MDRESYS-A
DUAL ENGINE SYSTEM A
Order MDRESYS-A plus 9ft Cable (Fits most applications)

SUITABLE FOR MANY MERCURY ENGINES AND VOLVO PENTA GAS & DIESEL ENGINES

SINGLE ENGINE SYSTEM B
Order MDRESYS-B
DUAL ENGINE SYSTEM B
Order MDRESYS-B

ACCESSORIES

OC15SUK2B Stern drive installation kit for mercruiser engines (from 1994) & Volvo gas engines
OC15SUK32C Stern drive installation kit for Volvo Diesel engines
OC15109-6 Standard steering cable x 6 foot long
OC15109-9 Standard steering cable x 9 foot long (recommended for system A dual engine installation)
OC15109-12 Standard steering cable x 12 foot long

RUDDER FEEDBACK MODULES

OC15SUK27 Universal model for all autopilots
OC15SUK27A For Connav & Sitex Autopilots
OC15SUK27B For Raymarine Autopilots
OC15SUK27D For Coursemaster & Simrad Autopilots
OC15SUK27E For Garmin, Furuno, Navman & TNG Autopilots
OC15SUK83 Simrad resistance to frequency conversion kit - required for Simrad Autopilots

NOTES

- For older Mercruiser engines (pre-94) use system B (MDRESYS-B)
- Normal steering cables can also be used as supplied by Teleflex, Uflex and Multiflex
Type R mechanical remote drive - outboard systems

SIMPLE SOLUTION FOR TRICKY INSTALLATIONS

EASY TO FIT - Installation kit bolts to existing steering system, no drilling required!
TIME SAVING - Rudder feedback option mounts directly on drive
COMPATIBLE WITH ALL MAJOR AUTOPILOT BRAND ELECTRONICS

outboard engine? no problem!

Type S/T mechanical dashboard drive specification

PROFESSIONAL SOLUTIONS FOR STERNDRIVE & OUTBOARD ENGINES

TYPE S BEHIND DASH DRIVE
The Straight shaft drive unit replaces the manual drive used on cable steered boats and is mounted directly behind the dash. The drive is directly compatible with the Morse 290 steering helm but comes with its own bezel kit and can be retrofitted in most installations using the cable and steering wheel from the manual steering helm on the boat.

SPACE REQUIRED - TYPE S & TYPE T

ACCESSORIES

OPTIONAL RUDDER FEEDBACK UNIT
One of the most complex and time-consuming aspects of autopilot installation is fitting the rudder feedback unit, ensuring that the geometry matches the full range of rudder movement. The Octopus rudder feedback unit solves these problems as it mounts directly to the drive unit itself.

RUDDER FEEDBACK MODULES

MINIMUM CLEARANCE

MIN 250mm (10in) clearance front-back
(216mm / 8.5in with spacers)
MIN 150mm (10in) clearance
MIN 115mm (4.5in) clearance
MIN 90mm (3.5in) clearance
Optional Rudder Feedback Unit

One of the most complex and time-consuming aspects of autopilot installation is fitting the rudder feedback unit, ensuring that the geometry matches the full range of rudder movement. The Octopus rudder feedback unit solves these problems as it mounts directly to the drive unit itself.

Installation Kit – Yamaha 115-220
Installation Kit – Mercury-Mariner-Suzuki
Standard Steering Cable x 6ft
Standard Steering Cable x 9ft
Standard Steering Cable x 12ft

ACCESSORIES
OC15SUUK15A Installation Kit - Yamaha 115-220
OC15SUUK15B Installation Kit - Mercury-Mariner-Suzuki
OC15109-6 Standard Steering Cable x 6ft
OC15109-9 Standard Steering Cable x 9ft
OC15109-12 Standard Steering Cable x 12ft

Optional Rudder Feedback Modules

OC15SUUK37A For Comnav & Sitemaps Autopilots
OC15SUUK27B For Raymarine Autopilots
OC15SUUK27D For Coursemaster & Simrad Autopilots
OC15SUUK27E For Garmin, Furuno, Navman & TMQ Autopilots
OC15SUUK83 Simrad Resistance to Frequency Conversion Kit - Required for Simrad Autopilots

Second Cable Length Calculation
All Type R packs are supplied with a 6ft (1.8m) steering cable. If this is not suitable then other lengths are available as separate accessories. Use a length of rope or cable to plan the steering cable route and then measure the total length required:

\[(A' \text{ Dimension} + B' \text{ Dimension}) - 4\text{in for a 90° bend}\]

Round up the result to the nearest foot. See below for cable order codes.

APPROPRIATE ORDER CODES
MDRESYS-C Yamaha 115-220HP 1984 onwards
MDRESYS-D Mercury Black Max 1980 onwards, Mariner 1980 onwards, Mercury/Mariner 2.4 (all models), Suzuki DT75-DT225, Suzuki DF60-DF140

RUDDER FEEDBACK MODULES

Type S/T mechanical dashboard drive

Unique Autopilot Drives for Cable Steered Boats


totally out of sight!!!
Type R mechanical remote drive - inboard systems

COMPACT AND CONVENIENT SOLUTION

DISCREET INSTALLATION - All components mounted out of sight
EASY TO FIT - Can be located in very small spaces
PERFORMANCE - Responsive drive, little feedback resistance in Standby Mode
IDEAL FOR INBOARD ENGINED BOATS UP TO 32ft (10m) - 13,200lbs (6,000kg)

flexible installation, compact design

AUTOPILOT DRIVE UNITS

- A range of solutions for outboard, inboard or sterndrive boats
- Makes difficult cable-steering installations simple
- No need to convert the boat to hydraulic steering
- Ideal for modern boats with limited below deck space
- All drives are completely hidden, no electronics exposed to the elements
- Compatible with all major brand autopilot systems

TYPE R REMOTE DRIVE

The Type R remote drive offers a complete package solution for outboard, inboard and sterndrive engined powerboats with cable steering. The easy to fit packs contain everything you need to install the drive unit including steering cable, drive and fitting kit.

TYPE S BEHIND DASH DRIVE

The innovative Type S drive unit replaces the existing manual cable helm unit with a combined manual helm and autopilot drive unit. Because it is mounted behind the dash it is completely hidden for a professional-looking installation.

TYPE T TILT BEHIND DASH DRIVE

The Type T drive unit is for boats that require a behind-dash drive system but are currently fitted with tilt steering - this unit offers all the features of the Type S drive, while still allowing the tilt angle of the steering wheel to be adjusted.

TYPE TILT BEHIND DASH DRIVE BEHIND DASH DRIVE

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TYPE R Mechanical Remote Drive - Inboard Systems

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Octopus Marine

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**OCTOPUS PROFESSIONAL SOLUTIONS**
**PROFESSIONAL DISTRIBUTOR**
Our innovative product range gives professional distributors / dealers the opportunity to offer the best solutions to their customers which gives added value to the installation and service supplied.

**BOAT BUILDERS**
Our highly experienced team can assist with solutions to boat builder production requirements including lean manufacturing techniques, and supply complete installation packs including all required parts and accessories.

**AUTOPILOT MANUFACTURERS**
Our highly experienced team can offer Autopilot manufacturers our personalized business model, where we provide engineering, prototyping and production support that is specifically designed to meet their needs, resulting in significant cost savings, increased reliability and innovation.

**WHY OCTOPUS?**
- Over 25 years experience designing and producing cutting-edge autopilot drive solutions
- Complete product solutions for all boat types (leisure & commercial) up to 120ft in length
- Unique drive designs for simple installation
- Integrated units, versatile and easy to install
- Customized products, compatible with all major autopilot brands
- We are committed to continuous product development and improvement
- 2 year warranty

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