

The *Admiral* Series for Outboards

Other *Admiral* Series features

210BH “Bullhorn” Cylinder

There are several different ways to steer outboard motors, mostly depending on the room available and the design of the individual boat’s engine well. By far the most popular of our Outboard steering cylinders is our Model 210BH Bullhorn unit. This is the most powerful and durable cylinder of its type on the market. It is capable of handling single or multiple engine installations.

What sets these HyDrive cylinders apart from the competition is the materials used to build them. While other brands use anodised or painted aluminum alloy cylinders, HyDrive uses nothing but Chromed Brass, Bronze and stainless steel - truly built for the toughest marine environment.

The 210BH cylinder mounts very simply to the tilt-tube of the outboard motor and fits neatly under the front of the motor cowling. It is compact in design and requires only a small amount of clearance (615mm). It requires considerably less space than some competitors “front mount” design cylinders.



Simple installation of 210BH on Outboard motor

***Note: Special model available for Honda Outboards.**

This unit comes in a kit for a single station monohull - Part No. *OBKIT1*. Other variations are available for Cats, dual stations etc. Ask your dealer for further information on these options. *Special ‘Pro’ 212BH model available for very narrow wells.



**NEW
MODEL**

216FM “Front Mount” Cylinder

The New release HyDrive Model 216FM cylinder is designed to fit all brands of V4 and V6 Outboards. It offers the advantage of rigid mounting directly in front of the motor.

While it does require more well-space than the “Bullhorn” type cylinder, the hydraulic hoses remain stationary. The marine brass cylinder is coated in black polyurethane and has special non-conductive and wear resistant rod-guides, offering maximum protection against electrolysis and other damage.

Capable of handling single or twin V4 and V6 outboards without torque feedback up to a total of 400HP. Combined with the Admiral series 101 helm it offers the ultimate in boat handling for you and your family.

Very simple to fit, it comes in kit form - Part No. *OBKIT5*



Simple installation of 216FM on Outboard motor

For Catamarans

Steering catamarans, both power and sail, has long been a source of problems because of difficulty fitting mechanical tie-rods between the rudders or motors. Now there is a simple answer to the problem - HyDrive hydraulic steering with a fluid-link tie-rod which can be installed on virtually any sized catamaran. This unique hydraulic circuit has provision for simple realignment of the rudders should it be required, and offers a very practical and simple solution.

Dual Stations

Multiple stations are very simple to install and provide the helmsman with instant and light control from any number of steering positions. Ideal for flybridge, rear deck, or tuna tower consoles.

Autopilots

Admiral Series helm units are designed for use with hydraulic autopilots, and have in-built lock valves, and balance-line ports to ensure simple and economic installation.

Installation

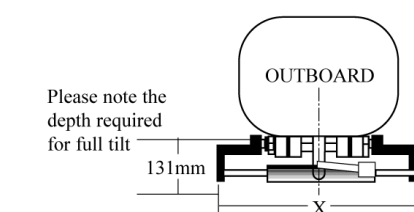
Installation of HyDrive steering equipment is very simple. From the minute you open the box and begin to read the comprehensive instructions, you will find the system has been designed to be installed by even the most inexperienced boating enthusiast, without hydraulic knowledge. Everything you need, right down to the nuts, bolts and locite has been included!

Warranty

HyDrive Admiral series units are warranted for a period of 2 years from date of sale. (12 months on commercial vessels)

Which kit will suit my boat? - Simple!

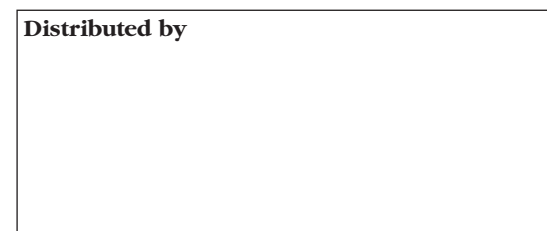
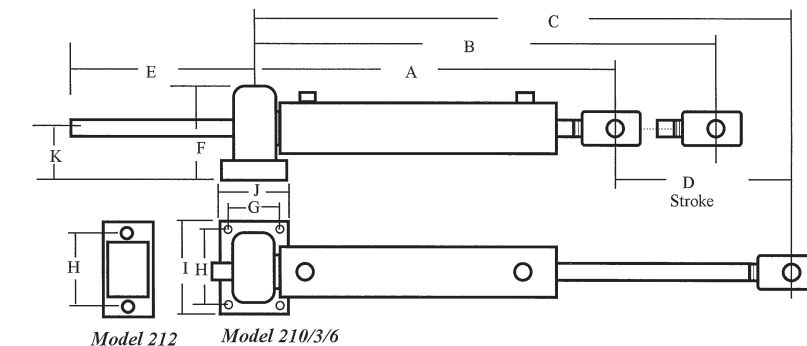
For outboard steering selection, the most important requirement is the amount of room available either side of the outboard motor. The drawings below provide you with the minimum space required for each type of cylinder. Please ensure that the measurement is taken at the narrowest section of your engine well - particularly with tapered wells, as the cylinder tilts down with the motor. Keep in mind however that for some boats which have plenty of available space or have the motors mounted on pods, the OBKIT1 using the 210BH cylinder may be more practical for installation because of such things as boarding ladders, ski-ropes or other obstacles.



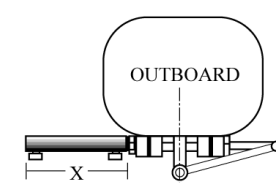
Clearance requirements for the following cylinder types
“X” =

210BH	- 615mm (24.2”)
212BH	- 492mm (19.4”)

Model	A	B	C	D	E	F	G	H	I	J	K
212	15.25” (388)	18.75” (476)	22.25” (565)	7” (178)	7.625” (194)	2.75” (70)	-	3” (76)	3.75” (95)	1.5” (38)	1.5” (38)
210, 213,216,	16.5” (419)	20.75” (527)	24.5” (622)	8” (203)	9.25” (235)	3.25” (82.5)	2.1” (55)	3.3” (85)	4.25” (108)	3” (76)	2” (50)

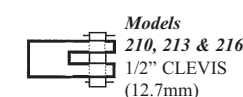


Please Note: Specifications may be subject to change without notice.

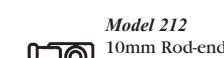


Clearance requirements for the following cylinder types
“X” =

210T	- 540mm (21.2”)
210TSE	- 330mm (13”)
212T	- 315mm (12.4”)



Models
210, 213 & 216
1/2” CLEVIS
(12.7mm)



Model 212
10mm Rod-end

KIT Number	Cylinder	Used for	Turns Ho/Ho	Torque	Cylinder Volume
OBKIT1*	210BH	Outboards	5.4	85KgM	154cc
OBKIT2	210T	O/B & S/Drives	5.4	85KgM	154cc
OBKIT3	210TSE	O/B & S/Drives	5.4	85KgM	154cc
PROKIT	212BH	Outboards	4.5	80KgM	135cc
SPORTKIT	212T	O/B & S/Drives	3	40KgM	78cc
SPORTKIT2	212	Inboard & Jets	3	40KgM	68cc
IBKIT1	210	Inboard & Jets	5.4	85KgM	154cc
IBKIT2	210SE	Inboard & Jets	5.4	85KgM	154cc
IBKIT3	216	Inboards	4.5	80KgM	137cc
IBKIT4	213	Inboards	6	110KgM	175cc

*Designate model OBKIT-H for HONDA outboards.
**Note: Some other kits are available for specialist installations.
These kits use Model 101 Helms as standard. Model 102 helms can be substituted if desired, reducing turns Ho/Ho by approx. 1 turn.

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HyDrive *Admiral* Series

HYDRAULIC STEERING FOR SMALL BOATS

**NEW
MODEL**



No more aching arms from stiff and heavy cable steering.
Let a safe and powerful HyDrive steering unit eliminate all
Feedback and put the pleasure back into your boating.

Now, the Ultimate boat steering is within your reach!

Let a *HyDrive* *Admiral* put you in command!

HyDrive *Admiral* - Now You *Can* Afford The *Ultimate*

For Outboards, Sterndrives, Inboards and Jets

The *Admiral* Series for small boats

Tired of fighting with the steering on your boat? Then let an Admiral put you in command!

HyDrive, Australia's largest selling hydraulic steering for small boats, offers the finest in smooth, powerful steering with quality and materials that are built to last. Large horsepower outboards are handled with comfort and *without feedback* from engine torque.

It doesn't matter whether you have a small boat with a small outboard, or a larger craft with multiple V-8's, there is a HyDrive Admiral to suit. *Everything you need to handle virtually any boat using outboards, inboards, sterndrives or jet units from 4-15 Metres - delivered in a single carton!*

The heart of the new Admiral Series is the HyDrive Model 101 and 102 helm unit. These 7-piston pumps are precision manufactured to standards and tolerances that are second to none. In-built lock valves, which eliminate torque feedback are standard. The light, smooth steering must be experienced to be appreciated.

But why HyDrive?

Well, it's true that there are other hydraulic steering systems on the market, but none of them have been built using the same salt-water resistant design criteria, or give you the same value as HyDrive.

Designed as a complete *Do It Yourself* installation, everything you need is supplied including detailed instructions. *You don't even have to know anything about hydraulics!*

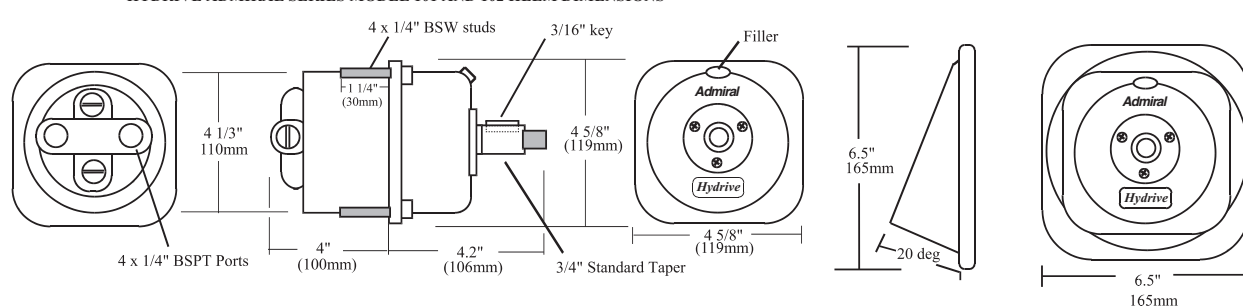
Just compare the list of features and then consider carefully which system you really want to fit on your boat.



The Admiral Helm unit

- **Compact low-profile helm with minimal protrusion from the console. Some brands stick out almost 150mm plus the wheel!**
- **In-built lock -valve eliminates torque feedback. The wheel stays where you put it!**
- **Field replaceable shaft seal.**
- **Solid stainless steel helm shaft for optimum strength and durability. Some manufacturers use "hardened alloy" (anodised aluminium) for economy- nothing is better than stainless steel. It just costs more to make.**
- **Superior material choice- even the wheel nut and washer are brass. One leading manufacturer uses plated steel!**
- **4 precision bearings for smoothest performance.**
- **All helms built to High Performance standards - you don't have to pay more for HyDrive Power!**

HYDRIVE ADMIRAL SERIES MODEL 101 AND 102 HELM DIMENSIONS



Model 101 Helm = 1.7cu ins(28cc)/rev
Model 102 Helm = 2.00cu ins(35cc)/rev

Meets NMMA requirements
Meets ABYC standards
CE Approved

OPTIONAL 20 DEGREE BEZEL KIT.
ALTERS ANGLE OF WHEEL TO DASH



LIGHT AND EASY



Admiral - Light to Steer and Easy to Install

The *Admiral* Series for Inboards & Jets



212 Sport cylinder

HyDrive has a wide range of hydraulic steering for in-board rudders and jet units. The Admiral series provides a powerful and economical alternative to traditional cable and mechanical steering systems on most boats up to 15 Metres. Various cylinder sizes can be used with the Admiral model 101 and 102 helm units to provide the best combinations of torque for your boat. Single or multiple steering stations are simple.

For small inboard vessels and jet units the complete Sportkit2 is the ideal choice using the 212 Sport inboard cylinder. Giving very light and direct control for most boats up to 8 metres, this cylinder is made from the finest anodised aluminium and stainless steel.

210 cylinder



213& 216 cylinder



For larger vessels, and those demanding *increased protection from exposure* to heavy conditions, the Model 210,213 and 216 cylinders offer the ultimate choice in marine steering. Using chrome-plated brass, bronze and stainless steel, these powerful cylinders are ideally suited to both pleasure and light commercial vessels. These larger systems are available in either kit form or individual components as required.

IBKIT1 - model 210 balanced cylinder
IBKIT2 - model 210 un-balanced cylinder
IBKIT3 - model 216 balanced cylinder
IBKIT4 - model 213 balanced cylinder
SPORTKIT2 - model 212 balanced cylinder
Note: For larger vessels see the brochure on the Hydrive HD series systems.

The *Admiral* Series KIT SYSTEMS

Not only does HyDrive offer the finest quality steering components for your boat, we also provide the most comprehensive range of complete packaged kits - just to make it simple for you to install. We supply these systems in heavy-duty outer cartons with everything you need in the one box. Just compare what you get:-

- *The Admiral 101 Helm unit with fittings*
- *The cylinder type of your choice with all fittings*
- *3 Litres of HyDrive ULTRA-15 hydraulic fluid (2 litres with Sportkits)*
- *12 Metres (40ft) High pressure hydraulic tubing*
- *Detailed instructions, bleeder kit and drill template, in fact everything you need except the steering wheel! - but that can also be arranged.*

WHAT COULD BE SIMPLER?



Admiral - Quite Simply The Best!

The *Admiral* Series for Outboards & Sterndrives



210T and 210TSE cylinders

A very popular cylinder type for outboards is the HyDrive tube-mount or side-mount 210T (balanced) and 210TSE (unbalanced). It can handle the same horsepower as the powerful 210BH Bullhorn cylinder, but it is simpler and cheaper to install. The only restriction to fitting them is the side-clearance requirements in the engine well.

Installation is very simple. The cylinder is designed to screw directly onto the outboard motor's tilt-tube or pivot-tube, in exactly the same way as a conventional cable-steering unit. Simply unscrew the old cable from the motor, screw on the HyDrive cylinder onto the same thread, install the fittings and the hard work is virtually done!

Made of chromed brass, bronze and stainless steel, there are two versions available, - the 210T which is a balanced cylinder, and the unbalanced 210TSE which has slightly higher turns one way than the other. It's advantage is that it requires less clearance for installation.

They can also be fitted directly to splashwell brackets to replace any cable steering. It's really that simple!!



212T Sport cylinder

Introducing the HyDrive Model 212T Sport cylinder which offers the power and reliability of hydraulic steering at prices which are more than competitive with many mechanical systems. This compact tube-mount cylinder is capable of handling up to twin 150HP engines (counter-rotating) or a single 235HP with comfort. It attaches directly to the outboard motor's tilt-tube just like the old push-pull cable steering!

The HyDrive 212T Sport is constructed of the finest stainless steel and fully anodised aluminum, providing low cost hydraulic boat steering. Like the other tube-mount cylinders it requires only a little clearance to the side of the motor to fit - *just 315mm!* It is available as a complete kit - Part No. **SPORTKIT**



Simple installation of 210TSE on Outboard motor

The HyDrive Tube-mount cylinders are also designed for use on any brand STERNDRIIVE or inboard/outboard to replace the conventional push-pull cable steering system. The cylinder screws directly to the bracket or pivot tube provided for the cable steering unit.

These units are available in kit form - OBKIT2 (balanced) and OBKIT3 (unbalanced).



Simple installation of 212T SPORT on Outboard motor



Let a *Admiral* steer you straight!