

2-LINE I/O SYSTEMS

HYNAUTIC

2-LINE COMPACT STEERING FOR I/O's

2-Line Systems Featuring The New "Glide Free" 80 Series Helm

Hynautic offers two 2-Line hydraulic steering systems for stern drive applications. They differ in cylinder type and application, and also in the tubing required and the helm unit chosen. Consult the adjacent charts and drawings to make your choice.

I/O 2-Line System Selection Guide

MANUFACTURER	ENGINE TYPE/DESCRIPTION	HYNAUTIC SYSTEM
MERCURISER	Single or Twin In-Line Fours to 165 HP	IO 280-11
	All Power Assist models—single or twin	IO 280-11
	Single V-6 or V-8 to 210 HP	IO 280-11
	Single or twin V-6 or V-8 to 500 HP total	IO 810-11
	Twin Bravo with counter rotation	IO 810-11
OMC	Single or Twin In-Line Fours to 150 HP	OB 280-11
	All Power Assist models—single or twin	OB 280-11
	Single V-6 or V-8 to 210 HP	OB 280-11
	Single or Twin V-6 or V-8 to 520 HP total	OB 810-11
	King Cobra with counter rotation	OB 810-11
	Old OMC I/O's	OB 282-11
	Can be used to replace Morse system with CRC thru-transom cable	
OB 281-11	Single or Twin In-Line Fours, no support tube	
VOLVO	Single or Twin In-Line Fours, support tube	OB 280-11

I/O 2-Line Steering System Performance Data

System	Helm Displacement		Number Steering Cylinders	Wheel Turns	Max. Torque* (in./lbs)
	(cu. in.)	(cu. cm.)			
IO 280-11	2.0	33	1 /K-14	4.3	3,310
OB 280-11	2.0	33	1 /K-13	5.5	3,310
OB 281-11	2.0	33	1 /K-11	5.5	3,310
IO 810-11	2.0	33	1 /K-14	4.3	6,290
OB 810-11	2.0	33	1 /K-13	5.5	6,290
OB 811-11	2.0	33	1 /K-11	5.5	6,290

*Torque @ 60=

NOTE: Cylinder selection between K-13/K-14 and K-11 rests solely on whether or not the guide tube (support tube) used for mechanical steering (usually hooked to the engine) is present or not. K-13/K-14 cylinders use the guide tube and the K-11 is for transom mount.

IO 280 and OB 280 Systems

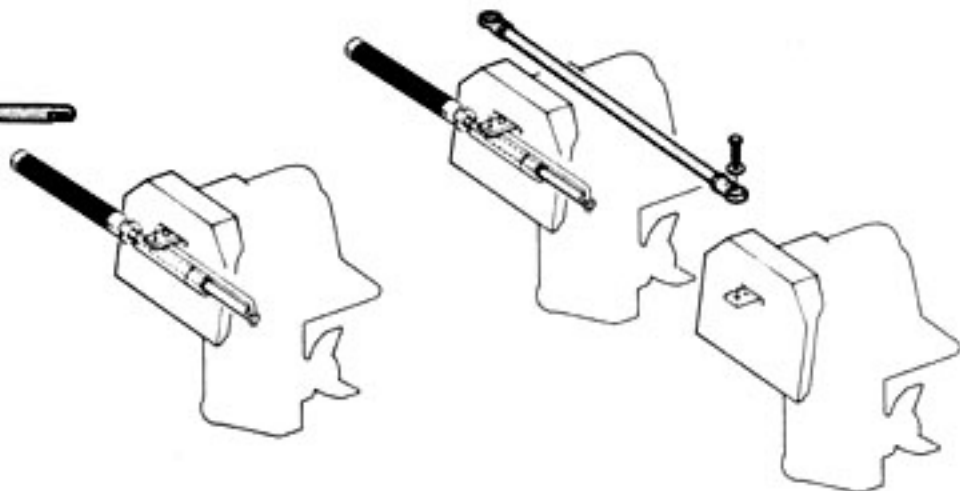
These systems are designed to steer boats with less than 220 HP. Cylinder threads onto guide tube provided by the engine manufacturer. Installation is very simple.



K-13 or
K-14 Cylinder
Tube-Mount

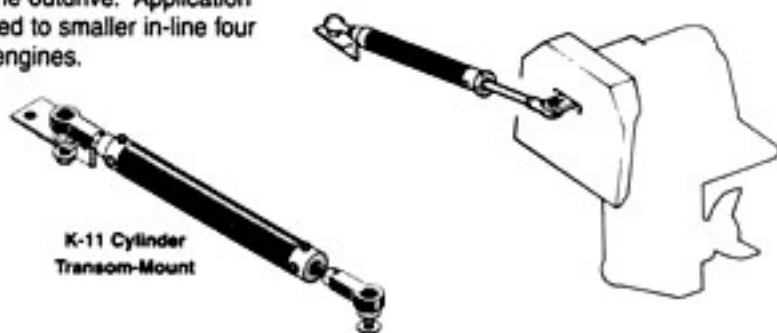
IO 810 and OB 810 Systems

The high-pressure versions of the above systems, for total HP above 220. Same features as the low pressure systems. No tubing is provided, must order high-pressure hose separately.



OB 281 and OB 811 Systems

The cylinder of this system is mounted to the inside transom and connected to the steering arm of the outdrive. Application is usually restricted to smaller in-line four and six cylinder engines.



K-11 Cylinder
Transom-Mount