

## 2-LINE OUTBOARD SYSTEMS



### 2-LINE COMPACT STEERING FOR OUTBOARDS

Featuring The New "Glide Free" 80 Series Helm

Hynautic offers several different Compact 2-Line Systems for outboards. The systems differ in the type of cylinder (front mount, side mount, or base mount) and also the helm unit included in each system. The primary step in system selection is your choice of cylinder type. Once the cylinder type is chosen, simply consult the adjacent selection charts and drawings.

#### Considerations:

- Note the System Performance Data chart where a choice of systems with different wheel turns is provided. Remember, the quicker the steering (fewer turns lock to lock) the more effort is required to turn the steering wheel.
- When using counter-rotating propellers, the steering torque is half what would be considered normal for dual engines.
- Tie bar kits are available for dual engines.
- Systems include 50 ft. of marine steering hose, high pressure hose for other systems must be ordered separately.
- Hynautic offers reusable end fittings and high pressure hose that allows you to cut hose to the exact length you require at the time of installation.

Outboard 2-Line System Selection Guide

Engine Mfg	APPLICATIONS				HYNAUTIC SYSTEMS				Additional Base Mount Information
	Model	Type	No. Engines	Counter Rotation	Front Mount Cylinder K-10	Side Mount Cylinder K-13	Base Mount Cylinder K-6		
EVINRUDE & JOHNSON	90	V-4	1 OR 2	NO	OB 850-11	OB 280-11	OB 800-11	ADDITIONAL MOUNTING KIT ARE REQUIRED FOR THE FOLLOWING ENGINES: ALL 1989 - 1991 AND COMMERCIAL AND SPECIAL GRADE (KIT # KF-107)	
	115	V-4	1 OR 2	NO	OB 850-11	OB 280-11	OB 800-11		
	130	V-4	1 OR 2	YES OR NO	OB 850-11	OB 280-11	OB 800-11		
	150	V-6	1 OR 2	YES OR NO	OB 850-11	OB 810-11	OB 800-11		
	175	V-6	1 OR 2	YES OR NO	OB 850-11	OB 810-11	OB 800-11		
	200	V-6	1 OR 2	YES OR NO	OB 850-11	OB 810-11	OB 800-11		
	225	V-6	1	N/A	OB 850-11	OB 810-11	OB 800-11		
	225	V-6	2	NO	OB 850-12	OB 810-12	OB 800-12		
	225	V-6	2	YES	OB 850-11	OB 810-11	OB 800-11		
	250	V-8	1	N/A	OB 850-11	OB 810-11	N/A		
	250	V-8	2	YES OR NO	OB 850-12	OB 810-12	N/A		
300	V-8	1	N/A	OB 850-11	OB 810-11	N/A			
300	V-8	2	YES OR NO	OB 850-12	OB 810-12	N/A			
HONDA	75		1 OR 2	NO	OB850-11	OB 810-12	N/A		
	90		1 OR 2	NO	OB85-11	OB 810-12	N/A		
MERCURY & MARINER	75	3	1 OR 2	NO	OB 850-11	OB 280-11	OB 800-11	150, 200, 225 PRO MAX & SUPER MAGNUM REQUIRE KITS	
	100	4	1 OR 2	NO	OB 850-11	OB 280-11	OB 800-11		
	115	4	1 OR 2	NO	OB 850-11	OB 280-11	OB 800-11		
	125	4	1 OR 2	NO	OB 850-11	OB 280-11	OB 800-11		
	135	V-6	1 OR 2	YES OR NO	OB 850-11	OB 280-11	OB 800-11		
	150	V-6	1 OR 2	YES OR NO	OB 850-11	OB 810-11	OB 800-11		
	175	V-6	1 OR 2	YES OR NO	OB 850-11	OB 810-11	OB 800-11		
	200	V-6	1 OR 2	YES OR NO	OB 850-11	OB 810-11	OB 800-11		
	225	V-6	1	N/A	OB 850-11	OB 810-11	OB 800-11		
	225	V-6	2	NO	OB 850-12	OB 810-12	OB 800-12		
SUZUKI	225	V-6	2	YES	OB 850-11	OB 810-11	OB 800-11	115 & 140 REQUIRE KIT	
	250	V-6	1	N/A	OB 850-11	OB 810-11	OB 800-11		
	250	V-6	2	NO	OB 850-12	OB 810-12	OB 800-12		
	90	V-4	1 OR 2	NO	OB 850-11	OB 280-11	OB 800-11		
	100	V-4	1 OR 2	NO	OB 851-11	OB 280-11	OB 800-11		
	115	4	1 OR 2	NO	N/A	OB 280-11	OB 800-11		
	140	4	1 OR 2	NO	N/A	OB 280-11	OB 800-11		
	150	V-6	1 OR 2	YES OR NO	OB 850-11	OB 810-11	OB 800-11		
200	V-6	1 OR 2	YES OR NO	OB 850-11	OB 810-11	OB 800-11			
225	V-6	1	N/A	OB 850-11	OB 810-11	OB 800-11			
YAMAHA	225	V-6	2	NO	OB 850-12	OB 810-12	OB 800-12		
	225	V-6	2	YES	OB 850-11	OB 810-11	OB 800-11		
	115	V-4	1 OR 2	NO	OB 850-11	OB 280-11	OB 800-11		
	130	V-4	1 OR 2	YES OR NO	OB 850-11	OB 280-11	OB 800-11		
	150	V-6	1 OR 2	YES OR NO	OB 850-11	OB 810-11	OB 800-11		
	175	V-6	1 OR 2	NO	OB 850-11	OB 810-11	OB 800-11		
	200	V-6	1 OR 2	YES OR NO	OB 850-11	OB 810-11	OB 800-11		
	225	V-6	1	N/A	OB 850-11	OB 810-11	OB 800-11		
	225	V-6	2	NO	OB 850-12	OB 810-12	OB 800-12		
	225	V-6	2	YES	OB 850-11	OB 810-11	OB 800-11		
	250	V-6	1	N/A	OB 850-11	OB 810-11	OB 800-11		
250	V-6	2	YES OR NO	OB 850-12	OB 810-12	OB 800-12			

\*Model Year 1995

\*\* New Low Profile Base Mount Cylinder

2-Line Outboard System Performance Data

System	Helm Displacement (cu.in.)	Helm Displacement (cu.cm.)	Number Steering Cylinders	Wheel Turns	Max. Torque (in./lbs.)*
OB 280-11	2.0	33	1	5.5	4,500
OB 281-11	2.0	33	1	5.5	4,500
OB 810-11	2.0	33	1	5.5	8,500
OB 810-12	2.4	39	2	8.3	18,900
OB 811-11	2.0	33	1	5.5	8,500
OB 811-12	2.4	39	2	8.3	18,900
OB 811-11	1.6	26	1	4.7	7,500
OB 811-12	2.4	39	2	6.3	15,000

\* Torque @ 60°