



3-LINE (PRESSURIZED) I/O SYSTEMS

3-LINE (PRESSURIZED) COMPACT STEERING FOR I/O'S

I/O 250 and I/O 510 Systems

For Mercruiser engines from in-line 4-cylinder to V-8. Basic system includes helm unit, reservoir, 7" stroke tube-mount cylinder, fittings and fluid.

OB 250 and OB 510 Systems

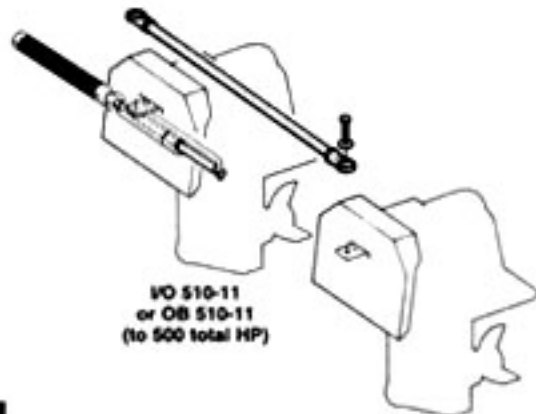
For other stern drive applications to large V-8 engines. Included is the helm unit, reservoir, 9" stroke tube-mount cylinder, fittings and fluid.

OB 251 and OB 511 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.



I/O 250-11
or OB 250-11
(to 220 total HP)



I/O 510-11
or OB 510-11
(to 500 total HP)

I/O 3-Line (Pressurized) Steering Performance Data

| System | Helm Displacement (cu.in.) | Helm Displacement (cu.cm.) | Number Steering Cylinders | Wheel Turns | Max. Torque (in./lbs) |
|------------|----------------------------|----------------------------|---------------------------|-------------|-----------------------|
| I/O 250-11 | 2.0 | 33 | 1/K-14 | 4.3 | 3,310 |
| OB 250-11 | 2.0 | 33 | 1/K-13 | 5.5 | 3,310 |
| OB 251-11 | 2.0 | 33 | 1/K-11 | 5.5 | 3,310 |
| I/O 510-11 | 2.0 | 33 | 1/K-14 | 4.3 | 6,290 |
| OB 510-11 | 2.0 | 33 | 1/K-13 | 5.5 | 6,290 |
| OB 511-11 | 2.0 | 33 | 1/K-11 | 5.5 | 6,290 |

*Torque @ 60"



OB 251-11
(to 220 total HP)

3-Line (Pressurized) I/O System Application Guide

| MANUFACTURER | ENGINE TYPE/DESCRIPTION | HYNAUTIC SYSTEM |
|--------------|---|-----------------|
| MERCURUISER | Single or Twin In-Line Fours to 165 HP | I/O 250-11 |
| | All Power Assist models—single or twin | I/O 250-11 |
| | Single V-6 or V-8 to 210 HP | I/O 250-11 |
| | Single or twin V-6 or V-8 to 500 HP total | I/O 510-11 |
| | Twin Bravo with counter rotation | I/O 510-11 |
| OMC | Single or Twin In-Line Fours to 150 HP | OB 250-11 |
| | All Power Assist models—single or twin | OB 250-11 |
| | Single V-6 or V-8 to 210 HP | OB 250-11 |
| | Single or Twin V-6 or V-8 to 520 HP total | OB 510-11 |
| | King Cobra with counter rotation | OB 510-11 |
| OB 251-11 | Single or Twin In-Line Fours, no support tube | |
| VOLVO | Single or Twin In-Line Fours, support tube | OB 250-11 |

3-LINE (PRESSURIZED) SYSTEMS FOR PERFORMANCE I/O'S

HP 2750 System

This system is designed for inboard/outboard boats requiring external dual cylinders of substantial size and strength. The K-5 cylinders are nickel plated for aesthetics and protection against the elements. The system includes a helm unit, reservoir, relief valve, two cylinders, fluid and fittings. This system does not include the wing plates or hardware for mounting to the outdrive.

HP 2750 System Specifications

| CYLINDER K-5 | | HELM | | | Total Displ. (cu.in.) | Max Pressure (psi) | Max Output (lbs) |
|--------------|-----|-----------------------|--------------|-------|-----------------------|--------------------|------------------|
| Turns | No. | Total Displ. (cu.in.) | Stroke (in.) | Model | | | |
| 6.5 | 2 | 26.4 | 9 | H-42 | 4.0 | 950 | 2750 |
| 5.0 | 2 | 26.4 | 9 | H-41 | 5.5 | 950 | 2750 |

