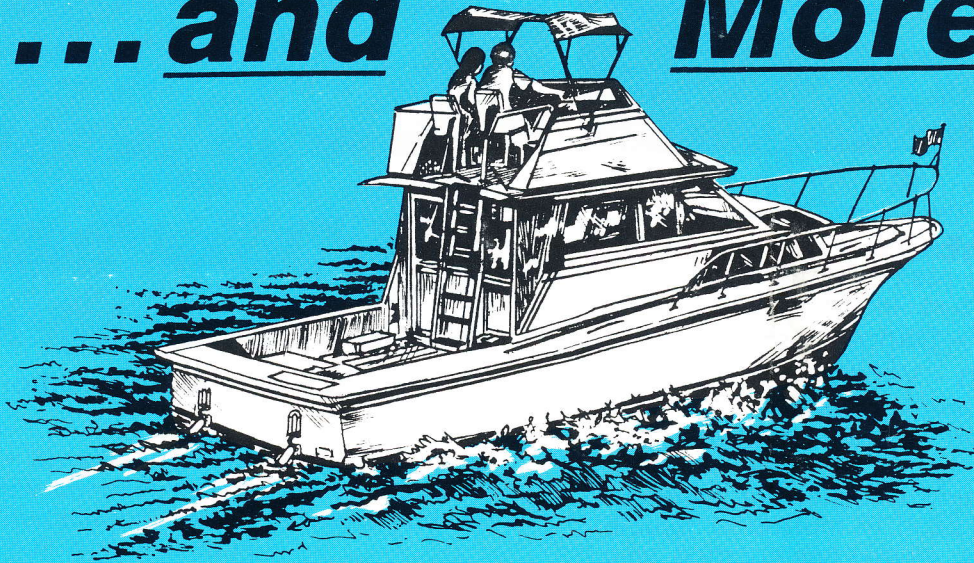




“The ORIGINAL” ELECTRIC HYDRAULIC
Boat Levelers

★ **COMFORT**
★ **SAFETY**

*... and More**



*** MORE FUN PER GALLON**

- * SAVES FUEL
- * INCREASES RPM
- * LEVELS RIDE
- * REDUCES WAKE
- * ELIMINATES HEEL CONDITION

INSTA TRIM Boat Leveler Co.

DIV. OF KERCHEVAL INDUSTRIES CORP.

7305 NATURAL BRIDGE • ST. LOUIS, MO. 63121 U.S.A.

314-385-7470



"The ORIGINAL" ELECTRIC HYDRAULIC Boat Levelers

INSTANT TRIM WITH THE FLICK OF A SWITCH!



SIMPLE PUSH BUTTON CONTROLS

Rocker type control - 2 TP Micro-switch: Environment proof sealed ... easy to operate, positive action, silver contact points. BOW-UP, BOW-DOWN, PORT & STARBOARD CORRECTION.



TABS OFF



TABS ON

ROUGH RIDE-ENGINE LABORS

SMOOTH RIDE-MAXIMUM EFFICIENCY

Poor Visibility - Dangerous Cruising
Heel Condition - Very Uncomfortable

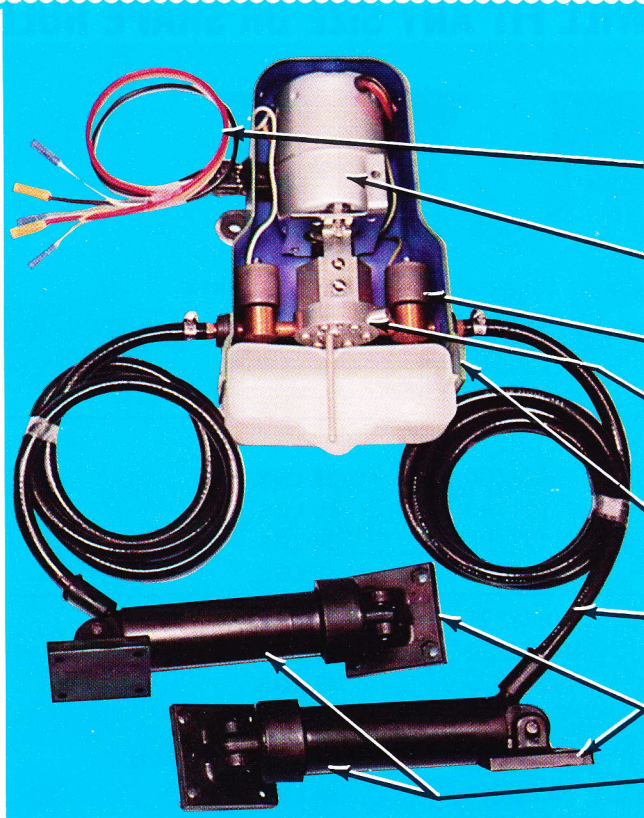
Better Visibility at Any R.P.M.
A Safer Ride with Heel Condition Corrected

Now, with the addition of easy to install **INSTA-TRIM®** Electric Hydraulic Boat Levelers you can enjoy smooth, level, fuel saving cruising ... regardless of load or speed. More fun per gallon ... and instant trim ... *WITH THE FLICK OF A SWITCH.*

INSTA-TRIM® gives you a safe, comfortable, level, and economical ride, each and every time you leave the dock. Your boat is in proper trim, no longer does engine labor, and you are running safer and longer ... saving fuel. You can throttle back ... with more fun per gallon.

HUNDREDS OF OUR CUSTOMERS TELL US THEY WISH THEY HAD INSTALLED **INSTA-TRIM®** ELECTRIC HYDRAULIC BOAT LEVELERS YEARS AGO!!! *WHY SHOULD YOU WAIT??*

Recommended by Leading Manufacturers Engineered For Reliability



1. **WIRING** - Always an ample supply with each unit. Quick connect fittings, color coded for ease of installation. Meets federal standards for heat, pull, and insulation.
2. **MOTOR** - Heavyduty with coated windings. Built-in thermal overload, protects against temperature and amperage build up. 1 3/4 inch stack windings. Motor mounted on top. No danger of oil leaking into motor.
3. **SOLENOIDS** - Designed specially for **INSTA-TRIM®**. . . lock tabs in any position, so there is no driftback. Solenoid coils, epoxy sealed, prevents shorting out from humidity. Barb type hose fittings.
4. **PUMP** - Scientifically designed, and engineered exclusively for **INSTA-TRIM®**. Built-in pressure relief valve is factory set at 400 P.S.I. Tolerance held to $\pm .00025$. When tabs are fully extended the amps do not exceed 16 because the unit circulates oil rather than stalling out or trying to pump additional pressure, thus eliminating wear and tear on motor, switches, wiring, hydraulic lines and cylinders. Pump is powerful enough to operate tabs on the largest yachts.

1. WIRING
2. MOTOR
3. SOLENOIDS
4. PUMP
5. MOTOR COVER
6. HOSE
7. BRACKETS
8. CYLINDERS

5. **MOTOR COVER** - Encloses complete unit with a built in oil reservoir. Filler hole located on front for easy filling. The motor cover is made of high impact ABS Plastic, and protects all components from occasional wash down. Only two screws to mount unit. Overall size 4 1/2" deep, 6" wide, and 12" high.

6. **HOSE** - Designed and manufactured for **INSTA-TRIM®**. . . is rated at 2000 lbs. burst pressure. Nylon reinforced webbing, PVC coating protects against oil, grease, saltwater, smog, rodents, etc. Fifteen ft. of hose supplied for units up to 40 inch sets, and two-fifteen foot pieces of hose for four cylinder application. The hose enters the transom six inches above the water line, and is covered with a small piece of trim that holds hose neatly to the transom. Stainless steel clamps, type 304, with 304 worm screw, holds the hose to barb fitting at solenoid.

7. **BRACKETS** - Swivel type brackets, top and bottom, allows cylinders to be mounted at any angle, including 90°. There is no blocking or shimming for transoms which are not perpendicular to bottom of boat. Simple knockout pins, both top and bottom, are designed to act as shear pins if tabs strike an object. If a problem should occur with a cylinder, in most cases the boat does not need to be hauled out for a cylinder change.

8. **CYLINDERS** - Made of high impact resistant nylon. Fiberglass reinforced, eliminating expansion from hydraulic pressure and water absorption. Resistant to ultra-violet rays. Two expanding type seals, plus O-Ring eliminates low and high pressure leaks. . . Tubular rod inserted into barbed cylinder fitting prevents breakage. Stainless steel spring retracts cylinder when boat is not in motion. The improved barb cylinder fitting eliminates hose blow-off . . . the harder the hose is pulled the tighter it will hold.

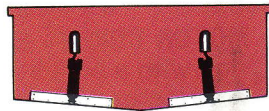
The 18.8 stainless nuts, bolts, lockwashers, and screws, secure all components to transom.

MISC. INFO - One pint of oil and funnel supplied along with all other mounting hardware.

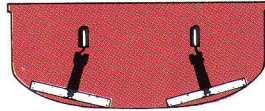


Boat Levelers

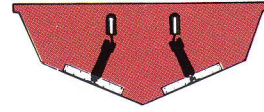
READILY ADAPTABLE TO YOUR BOAT • WILL FIT ANY SIZE OR SHAPE HULL



FLAT



ROUND



DEEP-V

The following size tabs are recommended in most cases for boat lengths listed below:

| <u>BOAT TYPE</u> | <u>BOAT LENGTH</u> | <u>TAB SIZE</u> | <u>STOCK NO.</u> | <u>SHIP. WT.</u> |
|---|--------------------|-----------------|------------------|------------------|
| Single Outboards or I.O.'s | | 12" x 8" | N120000 | 25 LBS. |
| | | 18" x 8" | N180000 | 28 LBS. |
| LONGER CHORD TABS | | | | |
| TWIN ENGINE Outboard or I.O. & Some Cruisers | | 12" x 11" | N121100 | 28 LBS. |
| | | 14" x 11" | N141100 | 30 LBS. |
| | | 18" x 11" | N181100 | 34 LBS. |
| | | 24" x 11" | N241100 | 37 LBS. |
| INBOARDS | 18' — 21' | 24" x 8" | N241821 | 32 LBS. |
| | 22' — 25' | 30" x 8" | N302225 | 36 LBS. |
| | 26' — 29' | 36" x 8" | N362629 | 42 LBS. |
| | 30' — 36' | 40" x 8" | N403036 | 44 LBS. |
| THE FOLLOWING COME WITH TWO (2) HYDRAULIC CYLINDERS PER EACH TAB | | | | |
| | 37' — 41' | 46" x 8" | N463741 | 54 LBS. |
| | 42' — 50' | 50" x 8" | N504250 | 57 LBS. |
| | 51' — 55' | 55" x 8" | N555155 | 61 LBS. |
| | 56' — 63' | 60" x 8" | N605663 | 66 LBS. |
| | 61' — UP | 72" x 8" | N726100 | 80 LBS. |

OTHER SIZES AVAILABLE UPON REQUEST. 12, 24, or 32 Volt - Specify

Heavy Duty Tabs and Hinges available in single and dual cylinders.

| <u>TAB SIZE</u> | <u>SHIP. WT.</u> |
|-----------------|------------------|
| 12 x 8 | 36 LBS. |
| 12 x 11 | 45 LBS. |
| 18 x 8 | 54 LBS. |
| 24 x 8 | 72 LBS. |

Dual Cylinder versions priced upon request.

PRICE SUBJECT TO CHANGE WITHOUT NOTICE
 TERMS NET: CHECK WITH ORDER OR C.O.D. F.O.B. ST. LOUIS.
 FOREIGN COUNTRIES PLEASE DRAW ON U.S.A. BANK
 PRICE EFFECTIVE AUG. 15, 1988

U.S. PATENT NUMBERS:
 3326164-3589323-3468278-3814044
 OTHER PATENTS PENDING
 CANADIAN PATENT NO. 766901