## VELVET DRIVE\* HYDRAULIC MARINE TRANSMISSIONS

## GENERAL MAINTENANCE INFORMATION

**OPERATING INSTRUCTIONS** — Place transmission selector in neutral before starting the engine. Shifts from any selector position to any other position may be made in any order. Shift at the lowest feasible engine speed and, except in an emergency, at engine speeds less than 1,000 RPM. DAMAGE OR PREMATURE WEAR TO THE TRANSMIS—SION CAN BE CAUSED BY SHIFTING AT ENGINE SPEEDS GREATER THAN 1,000 RPM.

CHECKING OIL LEVEL — Check the oil level daily before starting the engine. Oil will sometimes drain back into the transmission from the cooler when improperly installed. It is important that oil level checks on new installations be made immediately after the engine has been shut off and before the oil has had a chance to drain back. If you have drain back, correct the installation.

**CHANGING OIL** — A seasonal oil change is recommended in pleasure boats. Work boats require more frequent changes. Change oil anytime the oil becomes contaminated, changes color, or becomes ranced smelling.

**TRANSMISSION FLUID** — Automatic transmission fluids are recommended for use in all Velvet Drive transmissions. Good quality diesel engine oil (same as your engine uses) may be used in applications where maximum input speed does not exceed 3,000 RPM. Automatic transmission fluid and engine oil may be mixed in an emergency, however it is not a good policy to mix the different fluids for normal use.

SHIFT LINKAGE — The shift control should position the transmission shift lever so that the poppet ball is fully engaged in the hole in the side of the shift lever in each selector position. THE TRANSMISSION SELECTOR LEVER SHOULD ALWAYS BE MOVED FORWARD, TOWARD THE ENGINE, FROM THE NEUTRAL POSITION IN ORDER TO MOVE THE BOAT FORWARD. Operating the transmission in reverse when the boat moves forward will possibly cause damage to the transmission and does void your warranty.

**FREEWHEELING** — Under sail with the propeller turning, or at trolling speeds with one of two engines shut down, the design of the Velvet Drive gear maintains adequate cooling and lubrication.

WINTER STORAGE — Drain water from the transmission oil cooler. This will prevent freezing in cooler climates and prevent harmful deposits from collecting.

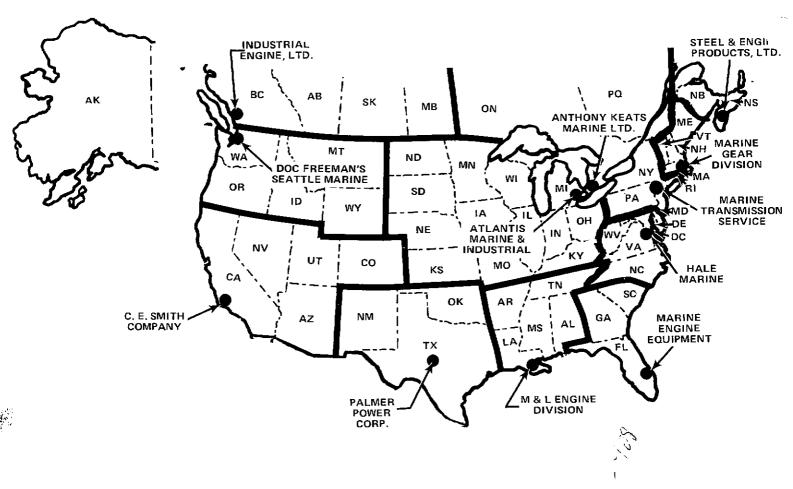
**DRIVE GEAR MONITOR KIT** — Monitors transmission oil temperature to alert the operator of abnormal high operating temperatures. Kit No. A4867HN is available for a single control station and kit No. A4867HS is used in conjunction with kit No. A4867HN for dual station monitoring.

**SERVICE MANUALS** – The nearest Velvet Drive distributor should be contacted to obtain any of the following Velvet Drive manuals.

Warner Gear



## **VELVET DRIVE DISTRIBUTORS**



Anthony Keats Marine Ltd. 78 Talbot Street Wheatley, Ontario, Canada Phone: 214/358-2331 Ontario; Quebec

Atlantis Marine & Industrial 101 Michigan Mt. Clemens, MI 48043 Phone: 313/463-2041 Wisconsin; Illinois; Michigan; Indiana; Ohio; Minnesota; North Dakota: South Dakota; Nebraska; Kansas; Iowa; Missouri; Kentucky

Doc Freeman's Seattle Marine Exchange, Inc. 999 North Northlake Way Seattle, WA 98103 Phone: 206/633-1500

Washington; Oregon; Idaho; Montana;

Wyoming; Alaska

Hale Marine 6080 Historyland Highway Warsaw, VA 22572 Phone: 804/333-2611

Maryland; Virginia; West Virginia; District of Columbia; Delaware;

North Carolina

Industrial Engine, Ltd. 8975 Oak Street Vancouver 6 B.C. Canada Phone: 604/266-4126

Western Canada (British Columbia, Alberta, Saskatchewan, Manitoba, Yukon, and Northwest Territory)

M & L Engine Division M & L Industries, Inc. 1212 St. Charles Street Houma, LA 70360 Phone: 504/876-2280

Arkansas; Louisiana; Mississippi;

Alabama; Tennessee

Marine Engine Equipment Exchange, Inc. 625 South Andrews Avenue Fort Lauderdale, FL 33301 Phone: 305/949-1641

South Carolina; Georgia; Florida

Marine Gear Division 9 Franklin Street Salem, MA 09170 Phone: 617/744-9350

Maine; New Hampshire; Vermont;

Massachusetts

Marine Transmission Service 2780 Hamilton Bvd. South Plainfield NJ 07080 Phone: 201/668-0800

New York; Pennsylvania; Connecticut;

New Jersey; Rhode Island

Palmer Power Corporation 10828 Shady Trail Dallas, TX 75220 Phone: 214/358-2331

Texas; Oklahoma; New Mexico

C. E. Smith Company P.O. Box 19129 Irvine, CA 92713 Phone: 714/754-1924

California: Arizona: Utah: Nevada:

Colorado; Hawaii

Steel & Engine Products, Ltd. P.O. Box 1120

Liverpool, Nova Scotia

Canada

Phone: 902/354-3483

Eastern Canada; New Brunswick; Nova Scotia; Newfoundland;

Price Edward Island