

IMCO-NV

FILLING & PURGING FOR AN ENGINE POWER STEERING PUMP SYSTEM

- A. TRIM STERN DRIVE(S) DOWN TO A LEVEL POSITION BE SURE THEY ARE ABLE TO TURN FULL LOCK TO LOCK WITHOUT TOUCHING ANYTHING, ATTACH GARDEN HOSE TO MOTOR/STERN DRIVE THAT WILL POWER THE STEERING SYSTEM, TURN WATER ON
- B. USE POWER STEERING FLUID TO FILL THE PUMP(S), TURN MOTOR OVER FOR 2 SECONDS ONLY! (DO NOT START MOTOR OR TURN THE STEERING WHEEL AT THIS TIME) FILL PUMP(S) REPEAT UNTIL FLUID LEVEL STAYS FULL
- C. START MOTOR FOR 1 SECOND (**DO NOT ALLOW THE PUMP(S) TO SUCK AIR OR IT WILL BE IMPOSSIBLE TO PURGE THE SYSTEM**) FILL PUMP(S), REPEAT UNTIL FLUID LEVEL STAYS FULL WITH MOTOR RUNNING
- D. START MOTOR AND TURN THE STEERING WHEEL A 1/4 TURN, SHUT MOTOR OFF AND FILL THE PUMP(S) **NOTE:** FOR CABLE ASSIST STEERING, IF THE STEERING WHEEL TAKES OFF IN THE OPPOSITE DIRECTION THEN THE LEFT AND RIGHT TURN HOSES ARE CROSSED! CORRECT PROBLEM AND CONTINUE. REPEAT STARTING MOTOR AND TURNING STEERING WHEEL UNTIL THE PUMP(S) STAY FULL FOR A TWIN PUMP SYSTEM REPEAT STEPS A. THRU D. WITH OPPOSITE MOTOR
- E. WITH THE MOTOR(S) RUNNING TRY MOVING THE STERN DRIVE(S) BY HAND, BE FIRM, IF THEY ARE SOILD THEN THE SYSTEM IS COMPLETE, FOR A TWIN PUMP SYSTEM SWITCH MOTORS AND REPEAT THIS STEP, IF THE STERN DRIVE(S) MOVE MORE THEN 2" THEN YOU WILL NEED TO PURGE THE SYSTEM AT THE STEERING RAM(S), WITH THE MOTOR(S) RUNNING AND IN ONE CONTINUOUS MOTION TURN THE STEERING WHEEL WHILE CRACKING OPEN ONE HOSE FITTING AT A TIME, CLOSE FITTING AS SOON AS FLUID STOPS, DO THIS UNTIL ALL AIR IS PURGED AND THE STERN DRIVE(S) ARE SOLID, DON'T FORGET TO FILL THE PUMP(S) AS NEEDED DURING THIS PROCEDURE!

CLEANING THE STEERING RAM(S)

WITH EXTREME EXHAUST HEAT AND HARD WATER CONDITIONS THE STEERING RAM RODS WILL NEED TO BE CLEANED AS NEEDED! IT IS IMPORTANT THAT THE CAPTAIN OF THE VESSEL PAY CLOSE ATTENTION TO THIS DETAIL! TURN DRIVE(S) TO ONE SIDE EXPOSING THE RAM ROD, CLEAN ROD USING VINEGAR, CLR, LIME AWAY OR SIMILAR, IF MORE THEN ONE RAM REPEAT IN THE OPPOSITE DIRECTION.