

TO: SERVICE MANAGER TECHNICIANS
PARTS MANAGER

No. 88-2

Piston Knock in MCM 224 CID (3.7 Litre) Engines with Aluminum Exhaust Manifolds

There has been a few reports on the MerCruiser 224 CID 3.7 litre engines with aluminum exhaust manifolds having a piston knock caused by a tight piston pin. The starting serial numbers of engines with aluminum exhaust manifolds are 165/170 3.7L A528109 and up, 180/190 3.7 L/LX A528516 and up. The tight pin may be caused by engine coolant entering the cylinders because of a leaking exhaust elbow/reservoir to exhaust manifold gasket part number 27-97863. The early style 27-97863 gasket had a silicon seal on both sides. The later style 27-97863 gasket was changed to a graphite type (Figure 1). 27-97863 is now superseded to 27-18272 which is a graphoil/tin composite (Figure 1). Starting serial numbers of production engines, with the 27-18272 gaskets are 165 3.7L B742442 and up 180 3.7L/LX B743204 and up. Gasket part number 27-18272 is also in Quicksilver parts stock.

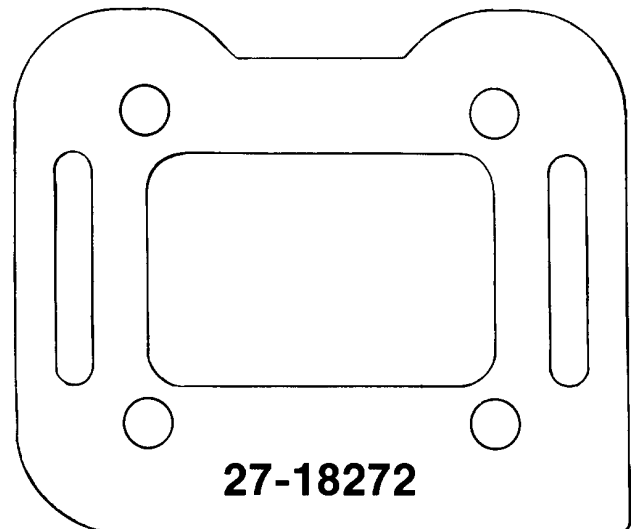
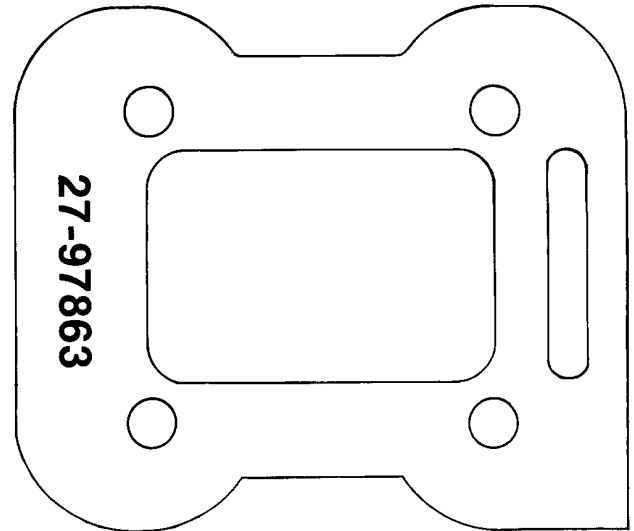
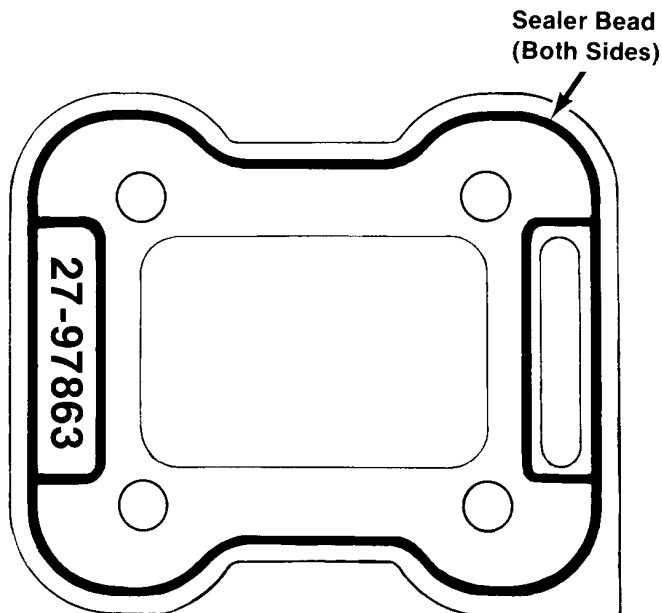


Figure 1.

Borg Warner V-Drive Oil Capacity Increase

Borg Warner V-Drive transmissions with dipstick located in V-Drive case (Figure 2) that have had intermediate shaft rear bearing failure should have oil capacity increased.

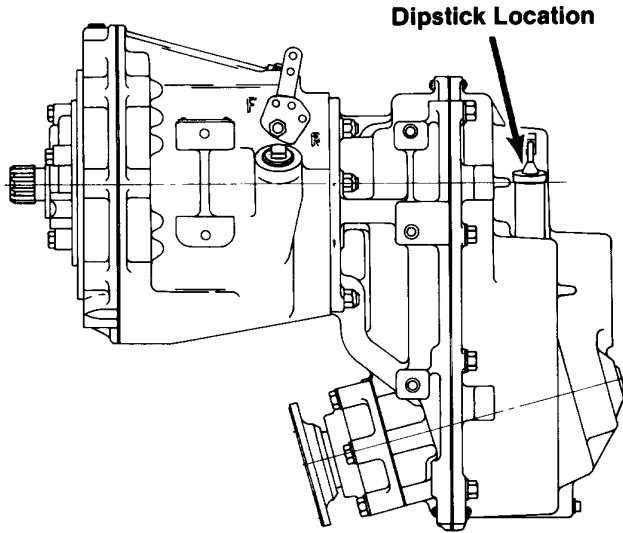


Figure 2.

Dipstick 10-05-559-001 (Figure 3) is now available for use in Velvet Drive® V-Drive transmissions which have the dipstick in the V-Drive case. The new dipstick will provide for additional oil capacity. Order new dipstick from your closest velvet drive distributor as shown on map. The following illustration shows the dimensions of the new dipstick. It is recommended that the new dipstick be installed when servicing any V-Drive transmission which has the dipstick located in the V-Drive case.

Original dipsticks can be modified to current design by adding a mark 1" (2.5mm) above the original "full" mark. The original "full" mark then becomes the "low" or "add oil" mark.

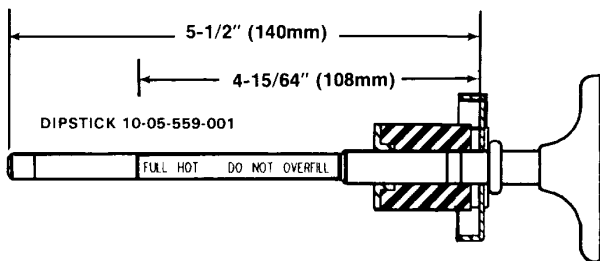
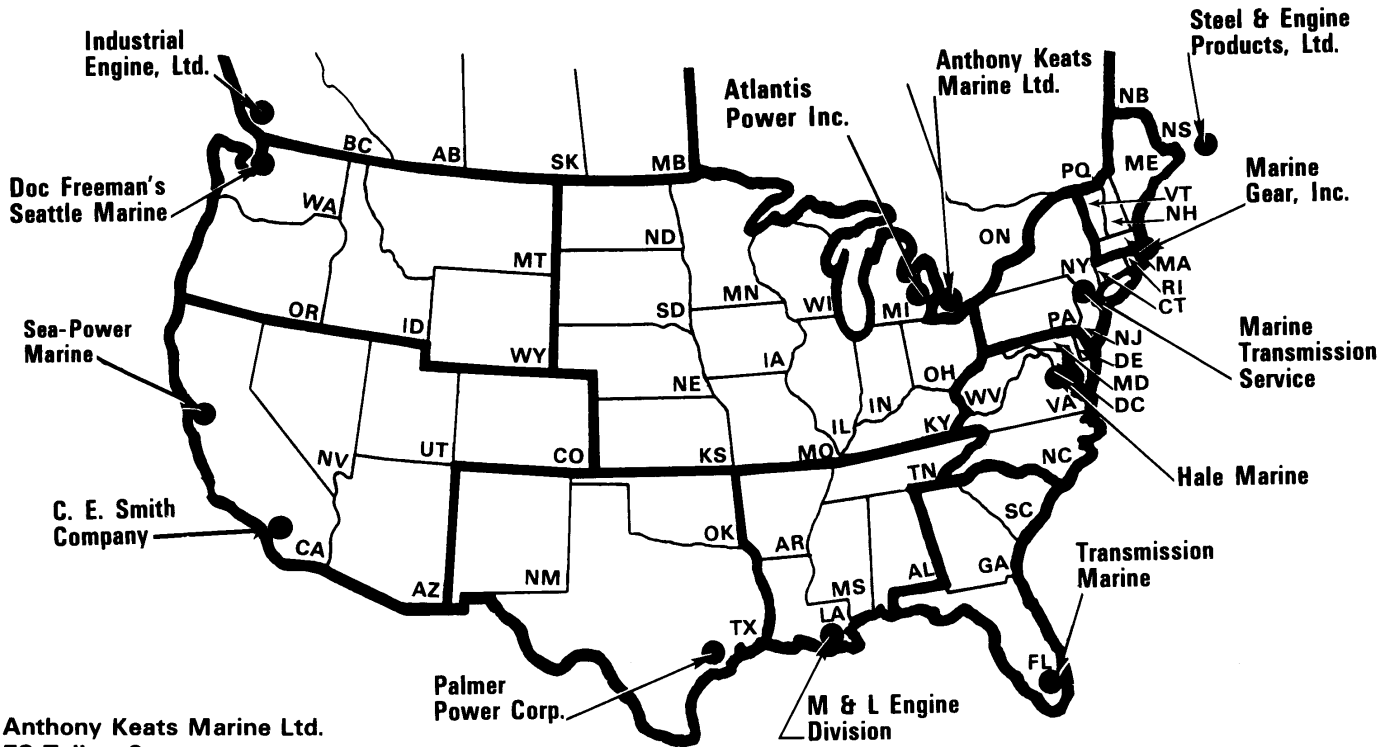


Figure 3.

The new dipstick has been installed in production transmissions beginning at the following serial numbers:

10-04-000-02	6473
10-04-000-03	1367
10-04-000-04	374
10-04-000-005	538
10-04-000-006	411
10-04-000-007	523
10-04-000-008	511
10-04-000-009	1201
10-04-000-010	809
10-04-000-011	7314
10-04-000-012	632
10-04-000-013	613
10-05-000-002	3860
10-05-000-003	1032
10-05-000-004	304
10-05-000-005	486
10-05-000-006	147
10-05-000-007	102
10-05-000-008	316
10-05-000-009	1614
10-05-000-010	1072
10-05-000-011	7672
10-05-000-012	457
10-05-000-013	201

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