

- 8) INSTALL NEW SEALS, FIG D, ON THE PISTON. SEE DETAIL A, SHOWS THE CUP SIDE OF THE FIELD IS FACING OUTWARD. THAT IS THE SAME OF THE OTHER SIDE.
- 9) WRAP THE RED SHIM PAPER AROUND THE PISTON SEALS AND INSTALL ROD AND PISTON INTO THE RAM. ONCE INSIDE THROW AWAY THE SHIM.

  10) INSTALL ROD SEAL, FIG E, INTO THE SECOND GROOVE IN THE HEAD. THE CUP SIDE OF THE SEAL FACES INWARD.
- 11) INSTALL ROD WIPER, FIG. F, INTO THE FRONT GROOVE OF THE HEAD. THE ANGLED FACE OF THE SEAL FACES OUTWARD.
- 12) INSTALL PLASTIC SHIM, FIG. G, OVER THE THREADS.
- 13) INSTALL O-RING, FIG. H, INTO THE GROOVE ON THE INSIDE OF THE HEAD. COAT O-RING AND THE SEALS WITH POWER STEERING FLUID.
- 14) APPLY ANTI-SIEZE TO THE TUBE THREADS. SCREW ON THE HEAD AND TIGHTEN.
- 15) BEFORE INSTALLING THE CYLINDER BACK INTO SERVICE THROUGHLY TEST IT TO BE SURE IT FUNCTIONS PROPERLY AND THAT THERE IS NO LEAKAGE PAST. ANY OF THE SEALS.

THIS DRAWING IS CONFIDENTIAL AND IS SUPPLIED ON EXPRESS CONDITION THAT IT SHALL NOT BE LENT, COPIED OR DISCLOSED TO ANY OTHER PERSON OR USED FOR ANY OTHER PURPOSE WITHOUT WRITTEN CONSENT OF HARDIN MARINE INC.. BREACH OF THIS CONTRACT WILL HOLD ....... AND IT'S PRINCIPALS LIABLE FOR LOSS AND DAMAGES.

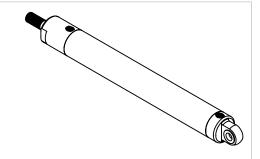
HARDIN 11 Industry Dr. Palm Coast, FL 32137 MARINE 386-445-2500 / FAX 386-445-1122

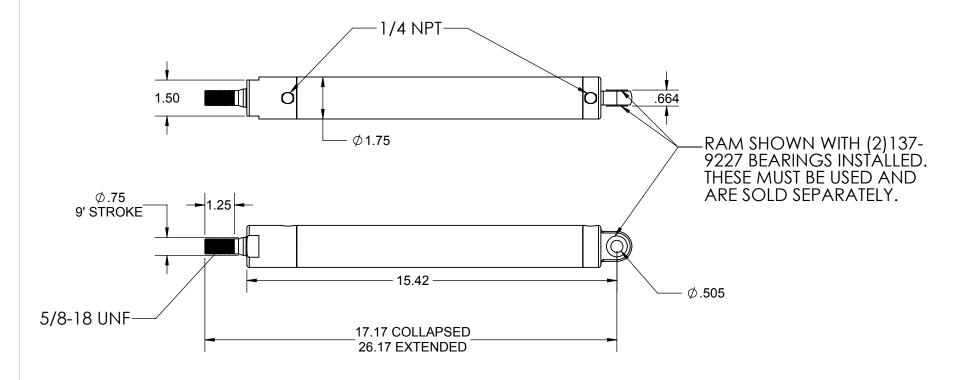
PART NO. 137-9234

TITLE:

9" STEERING RAM W/ BUSHINGS

## www.hardin-marine.com





PART NO. HARDIN 11 Industry Dr. Palm Coast, FL 32137 MARINE 137-93751 386-445-2500 / FAX 386-445-1122 TITI F: 7" MAYFAIR STEERING RAM REBUILDING INSTRUCTIONS www.hardin-marine.com APPLY **ANTI-SIEZE** D **DETAIL A** SCALE 4: 137-9499 SOLD SEPARATELY INSTALLATION INSTRUCTIONS USING 137-9248 SEAL KIT: 1) HOLD THE CAP END IN A VISE, FIG. A. 2) USING A 1-3/4 WRENCH REMOVE THE THE CAP, FIG.B. IF THE END CAP STARTS TO LOOSEN. JUST TIGHTEN IT BACK UP. USE PIPE WRENCH OR VISE TO HOLD THE TUBE. DO NOT TIGHTEN TO MUCH SO YOU DO NOT COLLAPSE THE RAM BORE. 3) REMOVE THE O-RING, ROD WIPER AND ROD SEAL FROM HEAD.

- 4) SLIDE OUT THE ROD AND PISTON, FIG. C. THE PISTON IS NOT REMOVEABLE.
- 5) REMOVE THE 2 OIL SEALS, BE CAREFUL NOT TO SCRATCH THE SEAL GROOVES.
- 6) CLEAN ALL PARTS. INSPECT ROD AND PISTON ASSEMBLIES FOR KNICKS.
- 7) USE POWER STEERING FLUID TO COAT THE INSIDE OF THE TUBE.
- 8) INSTALL NEW SEALS, FIG D, ON THE PISTON. SEE DETAIL A, SHOWS THE CUP SIDE OF THE FIELD IS FACING OUTWARD. THAT IS THE SAME OF THE OTHER SIDE.
- 9) WRAP THE RED SHIM PAPER AROUND THE PISTON SEALS AND INSTALL ROD AND PISTON INTO THE RAM. ONCE INSIDE THROW AWAY THE SHIM.
- 10) INSTALL ROD SEAL, FIG E, INTO THE SECOND GROOVE IN THE HEAD. THE CUP SIDE OF THE SEAL FACES INWARD.
- 11) INSTALL ROD WIPER, FIG. F, INTO THE FRONT GROOVE OF THE HEAD. THE ANGLED FACE OF THE SEAL FACES OUTWARD.
- 12) INSTALL O-RING, FIG. G, INTO THE GROOVE ON THE INSIDE OF THE HEAD. COAT O-RING AND THE SEALS WITH POWER STEERING FLUID.
- 13) APPLY ANTI-SIEZE TO THE TUBE THREADS. SCREW ON THE HEAD AND TIGHTEN.
- 14) BEFORE INSTALLING THE CYLINDER BACK INTO SERVICE THROUGHLY TEST IT TO BE SURE IT FUNCTIONS PROPERLY AND THAT THERE IS NO LEAKAGE PAST. ANY OF THE SEALS.

THIS DRAWING IS CONFIDENTIAL AND IS SUPPLIED ON EXPRESS CONDITION THAT IT SHALL NOT BE LENT, COPIED OR DISCLOSED TO ANY OTHER PERSON OR USED FOR ANY OTHER PURPOSE WITHOUT WRITTEN CONSENT OF HARDIN MARINE INC.. BREACH OF THIS CONTRACT WILL HOLD ........ AND IT'S PRINCIPALS LIABLE FOR LOSS AND DAMAGES.

HARDIN MARINE

11 Industry Dr. Palm Coast, FL 32137 386-445-2500 / FAX 386-445-1122 PART NO. 137-9275

TITLE:

7" SHORT STEERING RAM W/ BUSHINGS

## www.hardin-marine.com

