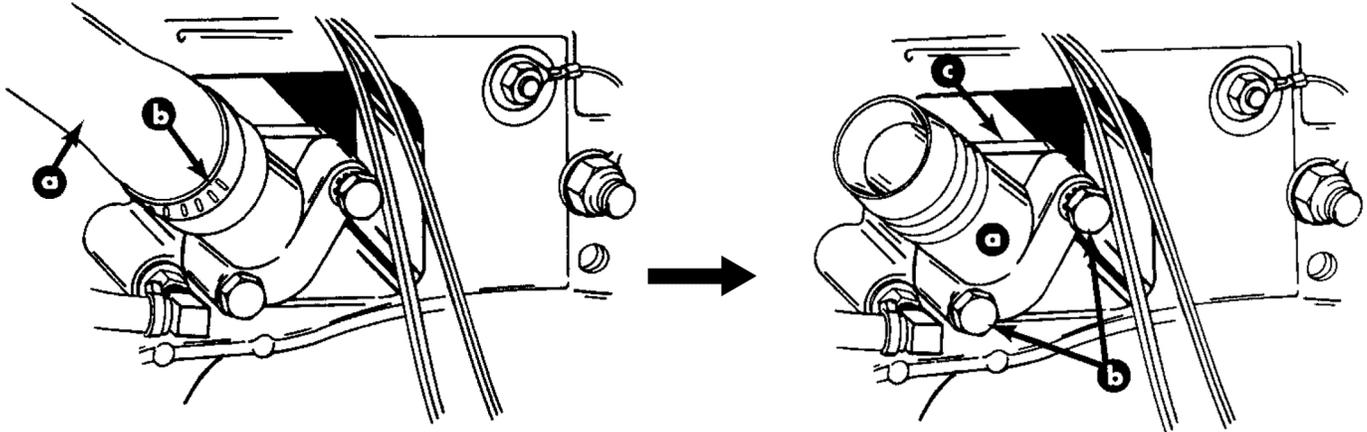


HARDIN MARINE

BRAVO WATER INLET HOSE REPAIR KIT

PART NO. 125-40020

1. FIRST, BEGIN BY REMOVING THE WATER HOSE FROM THE WATER OUTLET. THE HOSE AND OUTLET MAY BE LOCATED ON THE INNER TRANSOM ASSEMBLY. REMOVE THE HOSE BY LOOSENING THE CLAMP AND THEN PULLING THE HOSE FREE.



a - Water Inlet Hose
b - Hose Clamp

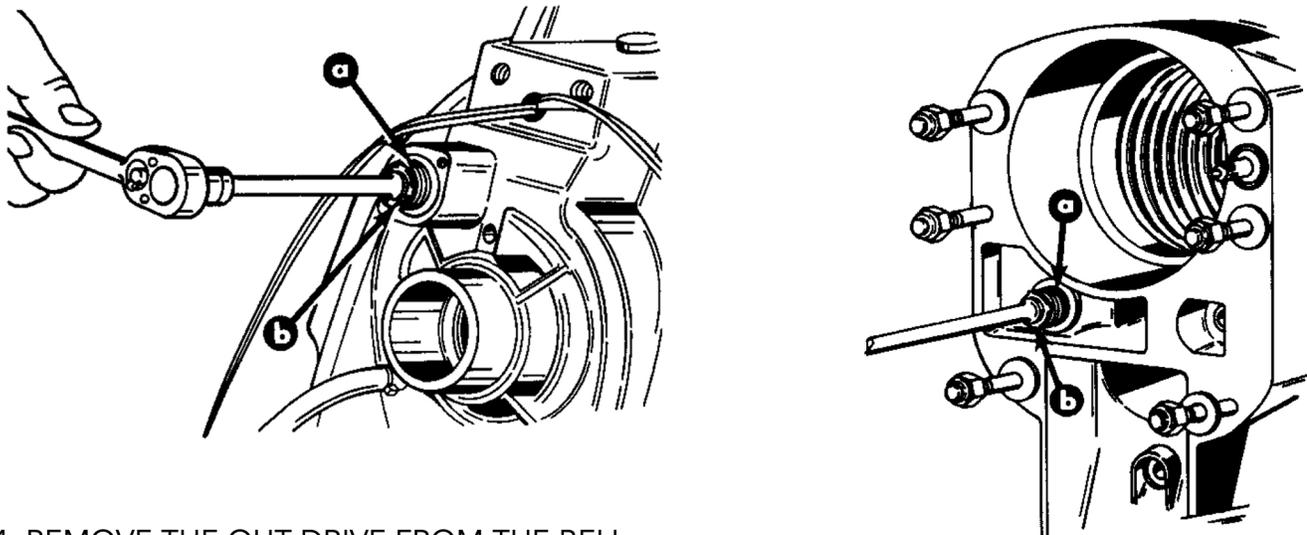
a - Seawater Pickup Outlet Fitting
b - Bolts and Star Washers

2. NEXT, REMOVE THE 2 BOLTS THAT RETAIN THE WATER OUTLET TO THE TRANSOM HOUSING. DEPENDING ON THE STATE OF YOUR OUTLET, THE OUTLET MAY NEED TO BE PRIED LOOSE FROM THE HOUSING. YOU WILL NEED TO REUSE YOUR OUTLET SO BE CAREFUL NOT TO BREAK OR DAMAGE THE PLASTIC PART.

CLEAN UP THE GASKET SURFACE OF THE OUTLET AND SET IT ASIDE TO BE REINSTALLED LATER.

IF YOU WANT TO UPGRADE YOUR OUTLET, WE DO OFFER AN UPGRADE PRODUCED BY HARDIN MARINE, PART NO. 125-40015, AND WOULD BE USED WITH FITTING, PART NO. 540-222151. BOTH ARE AVAILABLE ON OUR WEB SITE.

3. NOW, REMOVE THE TAPERED INSERT FROM THE INSIDE OF THE HOSE. THIS INSERT THREADS OUT COUNTER-CLOCKWISE. WE HAVE INCLUDED A SPECIALIZED TOOL IN OUR KIT TO MAKE REMOVAL AND INSTALLATION OF THIS INSERT EASIER FOR YOU.

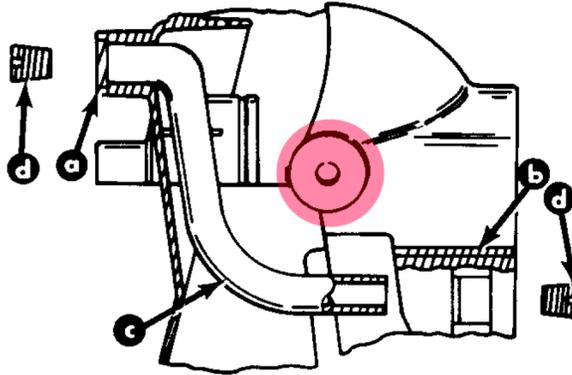


4. REMOVE THE OUT DRIVE FROM THE BELL HOUSING TO ACCESS THE WATER INLET HOSE.

a - Tapered Inserts
b - Tool (91-43579)

HARDIN MARINE BRAVO WATER INLET HOSE REPAIR KIT PART NO. 125-40020

5. REMOVE THE INNER HOSE INSERT.



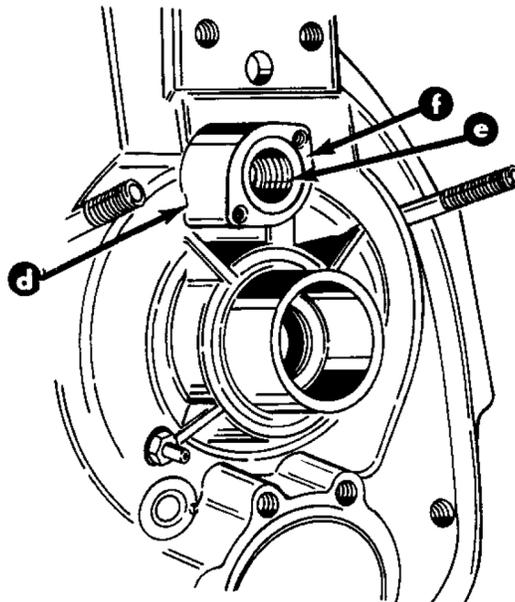
a - Gimbal Housing
b - Bell Housing
c - Water Hose
d - Tapered Inserts

6. NEXT, REMOVE THE HINGE PINS FROM THE BELL HOUSING SO THAT IT MAY BE PULLED OUT IN ORDER TO HAVE ACCESS TO THE WATER HOSE ROUTING.

THE BELLOWS CAN ALSO BE LOOSENED AS WELL IF NEEDED. WE ALSO OFFER A HINGE PIN TOOL, PART NO. 700-90200, ON OUR WEB SITE AS WELL.

7. THE INNER WATER HOSE MAY HAVE OTHER LINES ATTACHED TO IT WITH PLASTIC CLAMPS. REMOVE THESE CLAMPS TO FREE THE HOSES AND THEN REMOVE THE OLD WATER INLET HOSE. THE HOSE CAN BE CUT IF NEEDED TO HELP WITH THE REMOVAL.

8. TO INSTALL THE NEW HOSE, FIRST, CLEAN THE INNER TRANSOM AREA USING THE WIRE BRUSH PROVIDED AND A SCRAPER IF NEEDED. REPEAT THIS PROCESS ON THE BELL HOUSING.



d - Gimbal Housing
e - Water Hose
f - Mounting Surface

HARDIN MARINE

BRAVO WATER INLET HOSE REPAIR KIT

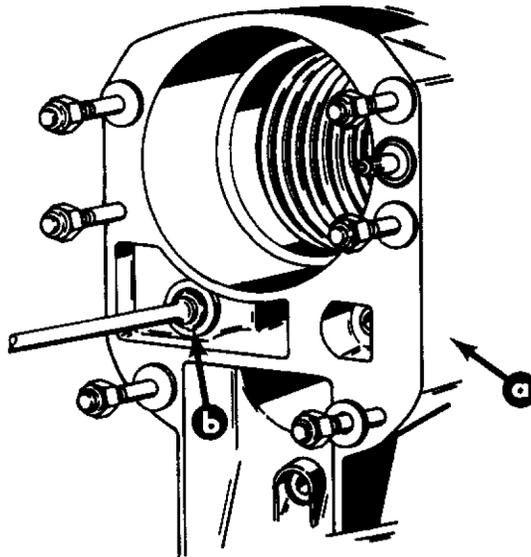
PART NO. 125-40020

9. NEXT, FEED THE NEW HOSE INTO THE INNER TRANSOM ASSEMBLY FROM THE ENGINE SIDE UNTIL IT IS A FEW INCHES AWAY FROM THE MOUNTING SURFACE. MAKE SURE THE HOSE IS CLOCKED CORRECTLY AT THE BELL HOUSING.

10. INSTALL THE PROVIDED STUDS THROUGH THE NEW HOSE FLANGE AND INTO THE TRANSOM HOUSING UNTIL THEY TOUCH THE BOTTOM.

11. NEXT, USING AN ADHESIVE LIKE PERMATEX ON THE GASKET SURFACE FACING THE TRANSOM, PUSH THE HOSE TO THE MOUNT SURFACE. REMOVE THE BACKING MATERIAL FROM THE SECOND GASKET, AND SLIDE IT OVER THE STUDS AND ONTO THE NEW HOSE FLANGE PRESSING IT FIRMLY TO SET THE ADHESIVE. PUT MORE ADHESIVE ON THE NEW GASKET AND THEN INSTALL THE WATER HOSE OUTLET. TIGHTEN FIRMLY UNTIL EXCESS ADHESIVE PUSHES OUT AROUND THE FITTING.

12. THE OUTSIDE PORTION OF THE NEW WATER HOSE CAN NOW BE PUSHED INTO THE REAR OF THE BELL HOUSING. PUSH THE HOSE IN UNTIL ABOUT 1/8" IS PAST THE HOUSING AND INSTALL THE INNER INSERT. YOU MAY NEED TO USE 2-4-C LUBE OR ANOTHER LUBRICANT ON THE INSERT SO IT WILL INSTALL SMOOTHLY. BE SURE TO HOLD THE HOSE IN PLACE DURING INSTALLATION ON THE INSERT. IT WILL NEED TO BE INSTALLED CLOCKWISE UNTIL TIGHT. PULL ON THE HOSE TO MAKE SURE IT IS TIGHT IN THE HOUSING.



a - Bell Housing
b - Tapered Insert - Apply 2-4-C Marine Lubricant (91-43579)

13. TIGHTEN ANY LOOSENED BELLOW CLAMPS AND AFFIX THE CLAMPS PREVIOUSLY REMOVED BACK TO THE WATER LINE.

14. REINSTALL THE HINGE PINS FOR THE BELL HOUSING AND TIGHTEN.

15. LAST, REINSTALL THE BRAVO OUT DRIVE TO THE BELL HOUSING.

16. BE SURE TO CHECK THE INNER WATER INLET FITTING FOR ANY LEAKS ON FIRST START-UP.