



BEARINGS REPLACEMENT (DIVERSE)

YOU WILL NEED:

AVAILABLE FROM YOUR DYNAMIC DISTRIBUTOR:

- DYNAMIC BASIC REPAIR KIT
- DYNAMIC ADVANCED REPAIR KIT
- FOOD GRADE GREASE
- GREASE GUN
- DYNAMIC BEARINGS AND SEAL KIT

YOU WILL ALSO NEED:

- SLIM FLAT HEAD SCREW DRIVER
- VICE
- ADJUSTABLE SPANNER

DYNAMIC BASIC REPAIR KIT

DISC REMOVAL TOOL



HEAD LOCKING TOOL



21mm SPANNER



DYNAMIC ADVANCED REPAIR KIT



MASTER GEAR
RETAINER TOOL



GUARD SECURE TOOL



MASTER GEAR REMOVAL TOOL



GUARD REMOVAL TOOL

A: MASTER GEAR ASSEMBLY

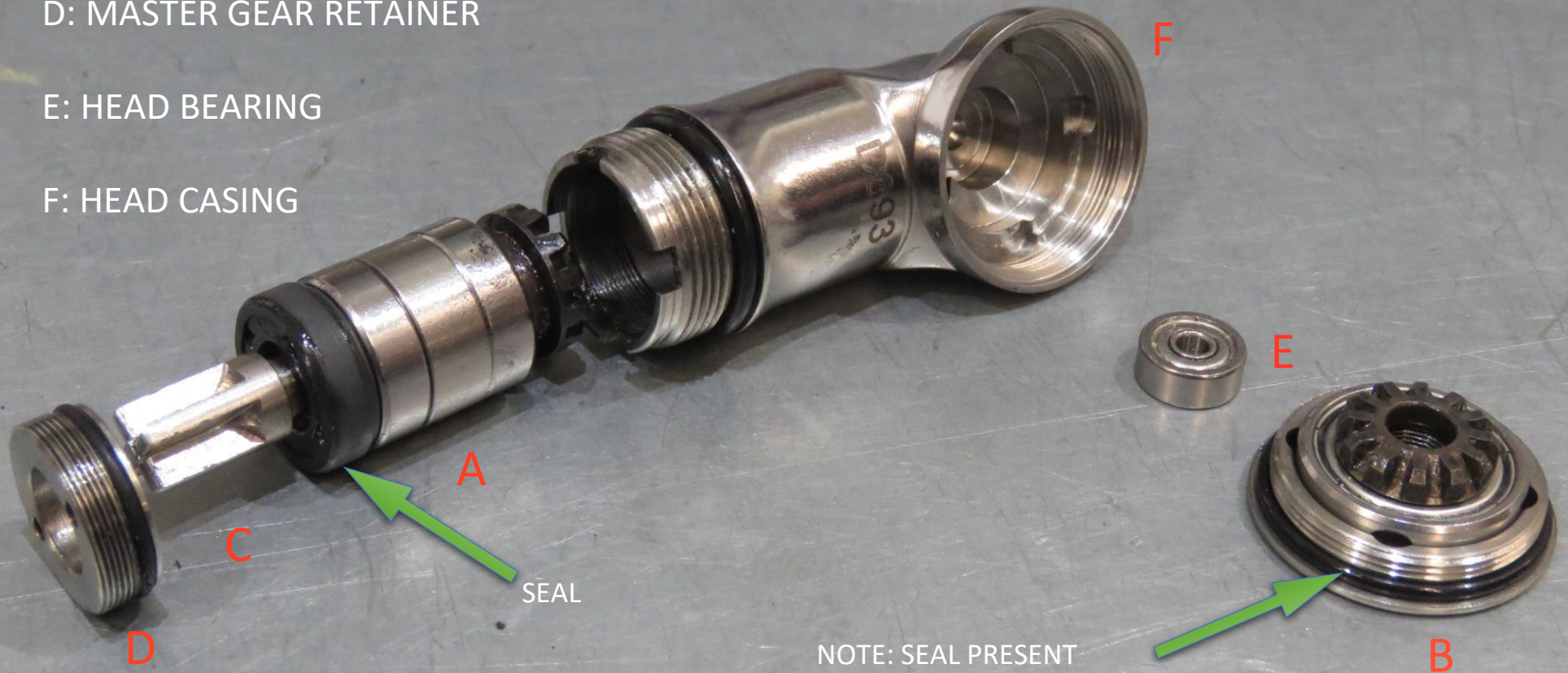
B: SLAVE GEAR ASSEMBLY AND GUARD

C: MALE X-DRIVE SHAFT

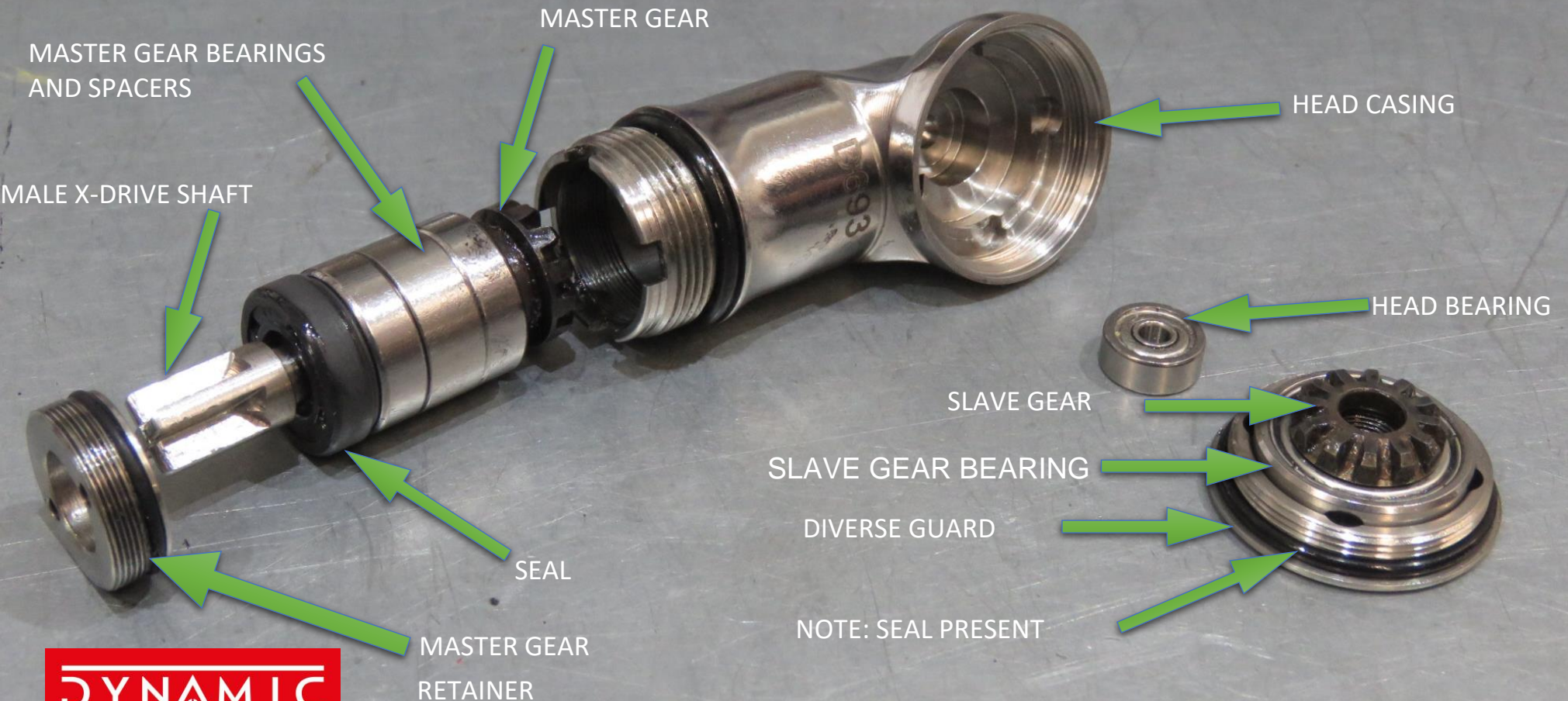
D: MASTER GEAR RETAINER

E: HEAD BEARING

F: HEAD CASING

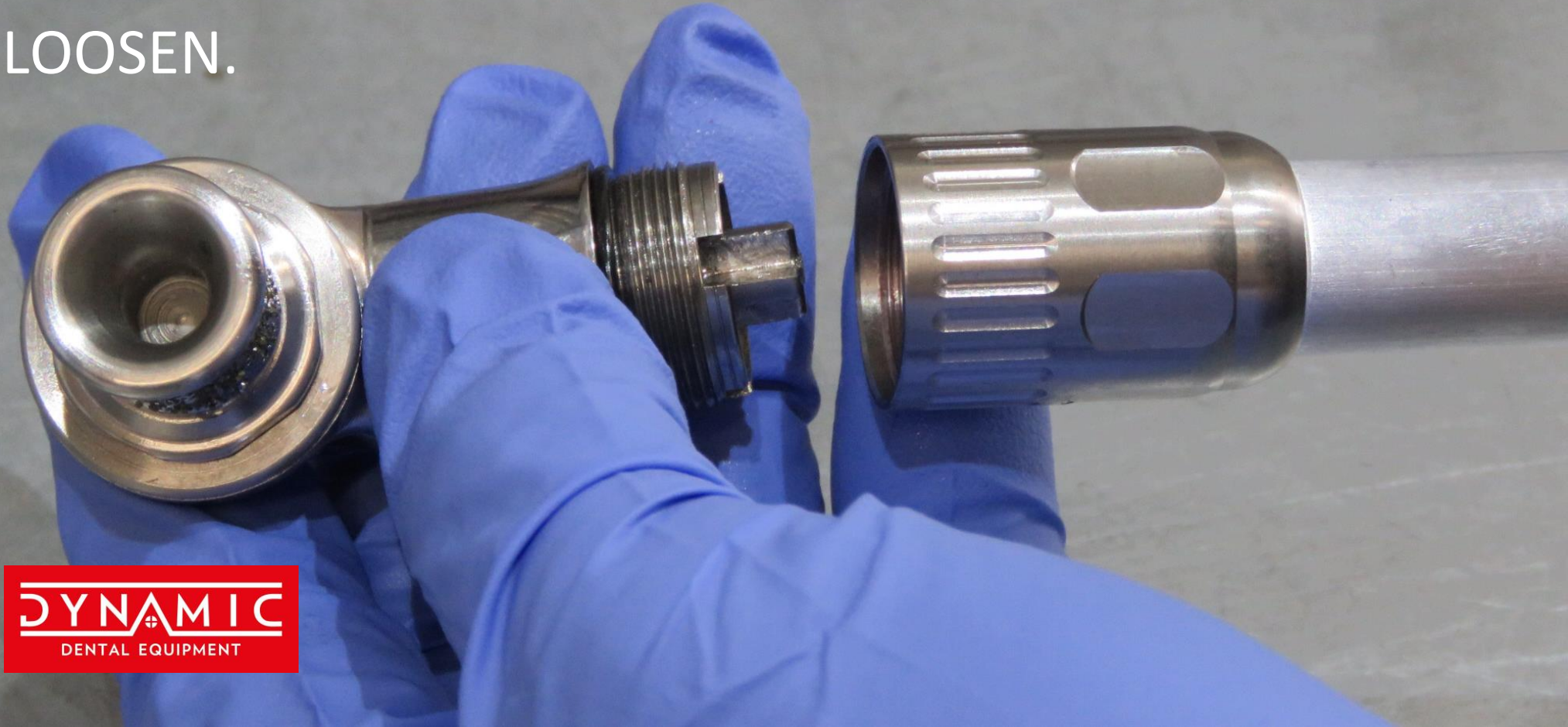


DYNAMIC DIVERSE COMPONENTS



DIASSEMBLING THE HEAD

- UNSCREW THE NUT BEHIND THE HEAD IN AN ANTI-CLOCKWISE DIRECTION. IF STIFF USE 21MM SPANNER TO LOOSEN.



- ATTACH THE HEAD LOCKING TOOL IN A CLOCKWISE DIRECTION



- UNSCREW BURR ANTI-CLOCKWISE, AND REMOVE



- INSERT GUARD REMOVAL TOOL. MAKE SURE THE TWO PINS LOCATE INTO THE HOLES SECURELY


- TURN DIAL CLOCKWISE UNTIL TIGHT



- UNSCREW LOCKING TOOL

- ATTACH GUARD SECURE
TOOL ROTATING CLOCKWISE
UNTIL TIGHT



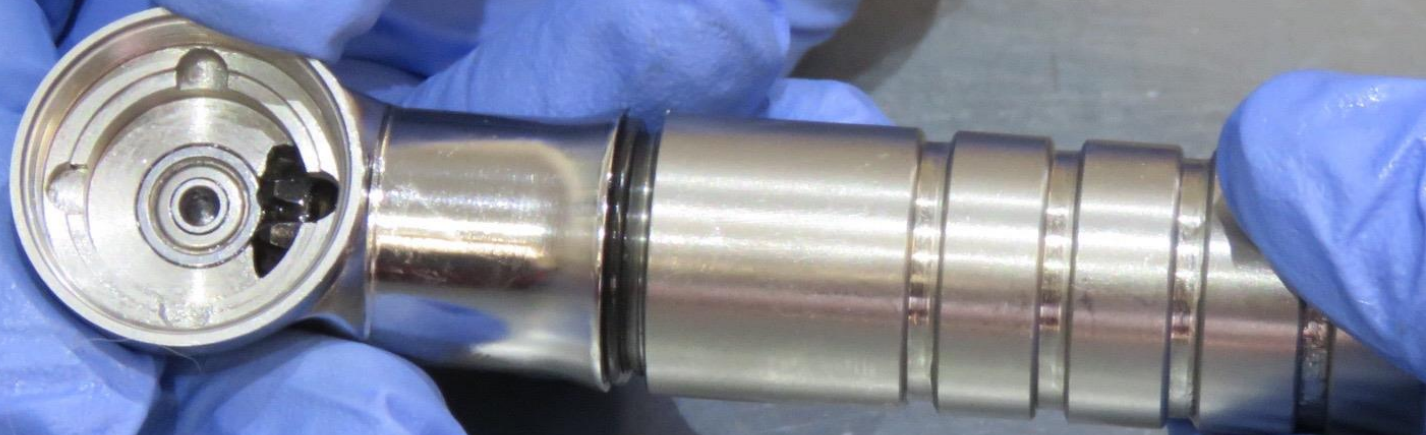
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- WITH THE GUARD REMOVAL TOOL FIRMLY FIXED IN A VICE. USING A SPANNER, ROTATE THE NUT ON THE TOOL ANTICLOCKWISE

- REMOVE THE SLAVE GEAR ASSEMBLY



- REMOVE GUARD REMOVAL TOOL FROM GUARD

- REMOVE THE GUARD
SECURE TOOL



- REMOVE MALE X-DRIVE SHAFT BY ROTATING ANTI-CLOCKWISE



- IF HAVING DIFFICULTY UNDOING THE MASTER GEAR ASSEMBLY FROM THE MALE X-DRIVE SHAFT, THEN GENTLY SECURE IN A VICE. USING A SMALL FLAT HEAD SCREWDRIVER PLACE INTO THE MASTER GEAR AND THEN UNDO THE MALE X-DRIVE SHAFT ANTI-CLOCKWISE WITH AN ADJUSTABLE SPANNER

- INSERT MASTER GEAR RETAINER TOOL MAKING SURE THE MALE PINS LOCATE SECURELY INTO THE HOLES





- USING A SPANNER
UNSCREW THE GEAR
RETAINER TOOL ANTI-
CLOCKWISE

- ONCE THE MASTER GEAR RETAINER TOOL BECOMES LOOSE, REMOVE IT ALONG WITH THE MASTER GEAR RETAINER





- INSERT MASTER GEAR REMOVAL TOOL, TIGHTENING IT IN A CLOCK-WISE DIRECTION

- USING FLAT HEAD SCREWDRIVER, LEVER OUT THE BLACK RUBBER SEAL AS SHOWN





- PULL MASTER GEAR
REMOVAL TOOL TO REMOVE
GEAR FROM HEAD CASING

- USING FLATHEAD SCREWDRIVER, REMOVE HEAD BEARING, CLEAN HEAD CASING USING PAPER TOWELS OR WIPES



- PULL BEARINGS AND SPACERS OFF THE MASTER GEAR



TIP: IF STRUGGLING TO REMOVE BEARING

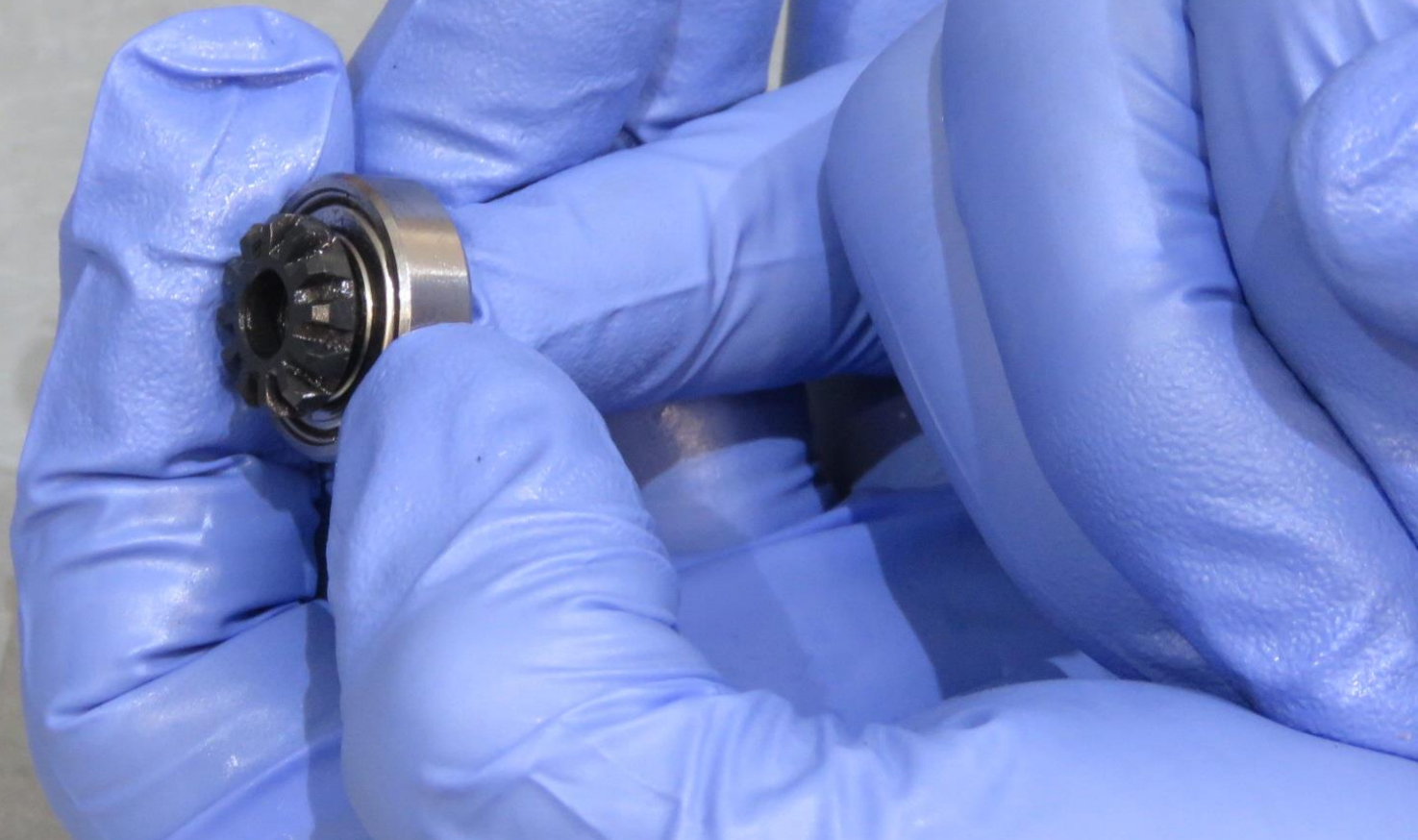
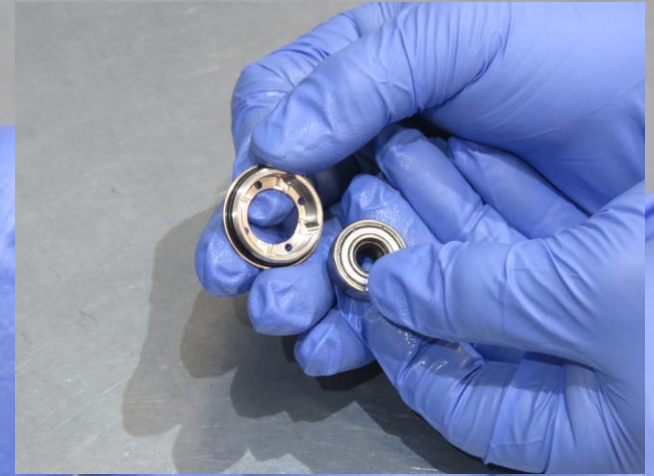
- DISMANTLE SHAFT FROM THE GUARD REMOVAL TOOL BEING CAREFUL NOT TO LOOSE THE BRASS SPACER. THREAD IT INTO THE SLAVE GEAR ROTATING IN A CLOCKWISE ROTATION UNTIL FULLY DONE UP. GENTLY PRESS THE SLAVE BEARING FREE FROM THE SLAVE GEAR



- MASTER GEAR ASSEMBLY CONSISTS OF:
A: MASTER GEAR
B: MASTER BEARING
C: MASTER BEARING OUTER SPACER
D: MASTER BEARING INNER SPACER
E: MASTER BEARING
F: MASTER BEARING SEAL
G: MALE X-DRIVE SHAFT



- REMOVE SLAVE RACE BEARING AND SLAVE GEAR BY PRESSING IT OUT WITH YOUR FINGER



REASSEMBLING THE HEAD



- PRESS THE SLAVE GEAR INTO THE SLAVE BEARING, SOMETIMES A GENTLE TAP WITH A NYLON HAMMER MAY BE REQUIRED



- PRESS THE BEARING INTO THE GUARD



- INSERT GUARD REMOVAL TOOL LOCATING THE TWO PINS IN THE HOLES



NOTE THIN SEAL MUST
BE PRESENT#

- TIGHTEN THE THREAD
SECURING THE MOVEMENT
OF THE GEARS USING YOUR
THUMB

- PUSH NEW HEAD BEARING FIRMLY INTO PLACE.



- ATTACH GUARD
SECURE TOOL

- REPLACE SLAVE GEAR ASSEMBLY, TIGHTEN CLOCKWISE

NOTE: THIN SEAL IN PLACE

DYNAMIC
DENTAL EQUIPMENT



- UNSCREW GUARD SECURE TOOL AND REMOVE



• TO RE-BUILD MASTER GEAR ASSEMBLY,
START THE ASSEMBLY IN THE FOLLOWING
ORDER:

A:MASTER GEAR

B:MASTER BEARING

C:MASTER BEARING OUTER SPACER

D:MASTER BEARING INNER SPACER

E:MASTER BEARING



PARTS F AND G ARE ADDED LATER

F: MASTER BEARING SEAL (GREASE SEAL)

G:M4 MALE X-DRIVE SHAFT



- ADD A SMALL AMOUNT OF GREASE ONTO THE EXTERNAL EDGE OF THE BEARINGS AND SPACER

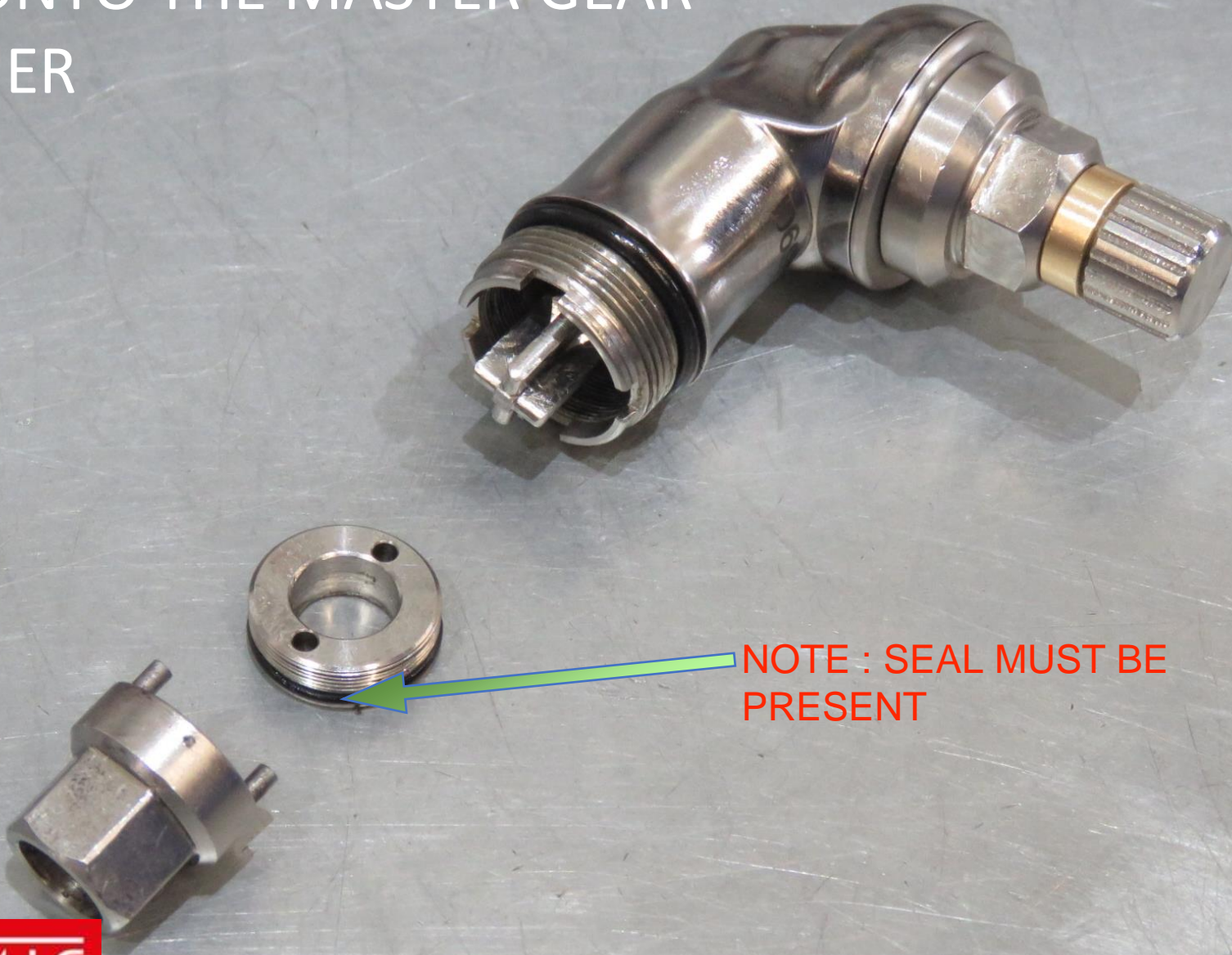


- PUSH MASTER GEAR ASSEMBLY FULLY DOWN INTO THE CASING, THEN PUSH THE SEAL FIRMLY DOWN USING THE GEAR TOOL UPSIDE DOWN UNTIL IT MEETS THE BEARING




- INSERT THE MALE X
DRIVE SHAFT AND
TIGHTEN BY HAND CLOCK-
WISE UNTIL SECURE

- PLACE THE GEAR RETAINER TOOL ONTO THE MASTER GEAR RETAINER



NOTE : SEAL MUST BE PRESENT

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- INSERT THE MASTER GEAR RETAINER WITH THE MASTER GEAR RETAINER TOOL. TIGHTEN WITH ADJUSTABLE SPANNER CLOCK-WISE UNTIL SECURE

- SCREW THE HEAD
LOCKING TOOL ON

- UNSCREW THE DIAL ON THE GUARD REMOVAL TOOL ANTI-CLOCKWISE, AND REMOVE

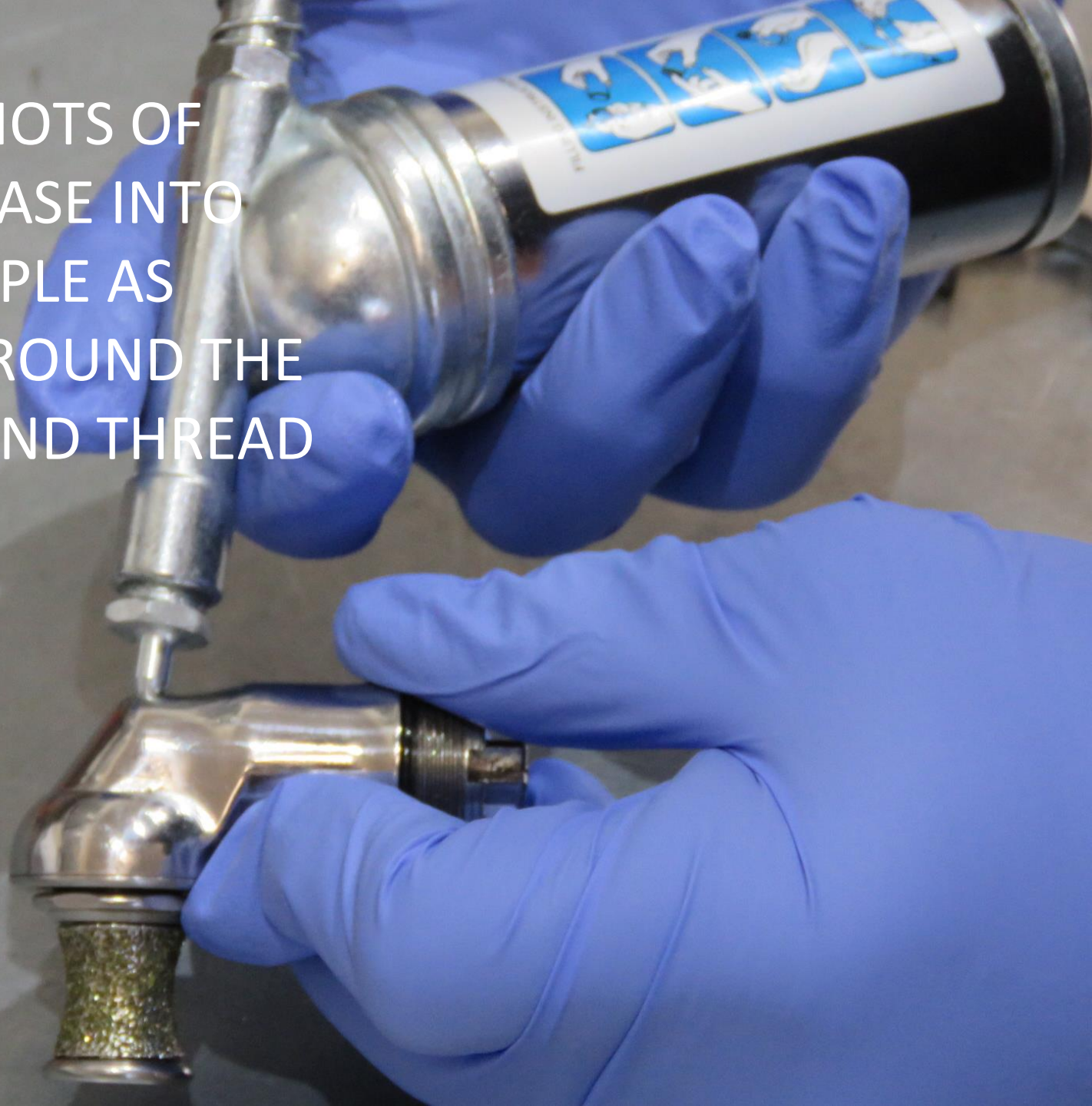


- SCREW IN BURR
CLOCKWISE UNTIL TIGHT,
BUT DO NOT OVER TIGHTEN

- UNSCREW LOCKING TOOL
AND REMOVE



- APPLY TWO SHOTS OF FOOD LUBE GREASE INTO THE GREASE NIPPLE AS SHOWN, AND AROUND THE MALE X-DRIVE AND THREAD



- ATTACH HEAD BACK ONTO THE SHAFT BY TIGHTENING THE NUT ON THE TOP OF THE SHAFT IN A CLOCKWISE DIRECTION. TAKING CARE NOT TO CROSS THREAD.
- **IMPORTANT ONLY HAND TIGHTEN**

NOTE: SEAL PRESENT

