

Fits popular brands including:  
**EMERSON FISHER GOLDSTAR**  
**HITACHI SANYO SHARP RCA**  
**WARDS GE MAGNAVOX**

When VCR's experience a bearing failure in the capstan motor they show the following symptoms:

- |                                  |                        |
|----------------------------------|------------------------|
| 1) Vibrating Noise               | 4) Unable to rewind    |
| 2) Slow or Stops while in "PLAY" | 5) Choppy sound        |
| 3) Loss of servo when hot        | 6) Hot capstan IC chip |

### BEARING REMOVAL:

- 1 Remove motor.
- 2 Remove shaft clip, if necessary ( Fig 1 ).
- 3 Slide shaft and armature out. Note placement of washers for reinstallation (Fig 1 ).
- 4 Note depth of old bearing ( Fig 2 ).
- 5 Two bearing motor: slide D+D tool through lower bearing hold on angle, tap around edge lightly until bearing is removed ( Fig 2 ).
- 5a Single bearing motor: position D+D tool until seated on bearing , tap lightly to remove bearing ( Fig 3 ).

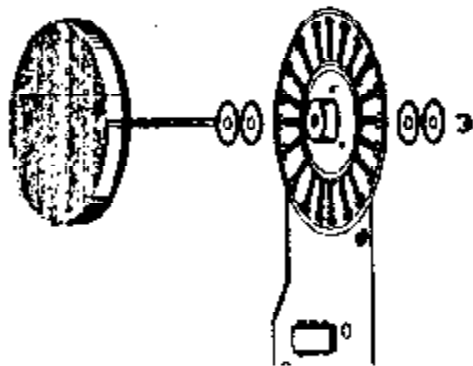


FIG 1

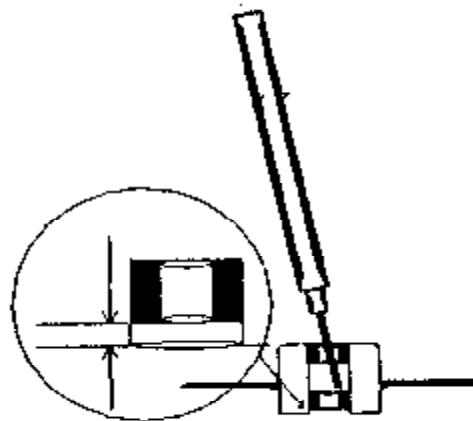


FIG 2

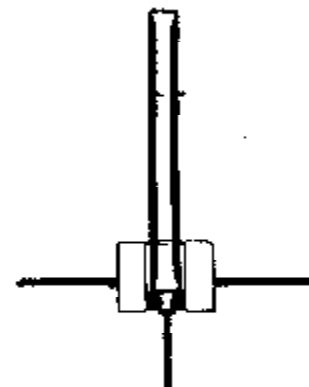


FIG 3

### BEARING INSTALLATION:

- 1 Clean old shaft thoroughly, totally dry shaft of cleaning fluid.  
**CAUTION: BEARING IS PRE-LUBED, CLEANING FLUID WILL DESTROY IT**
- 2 With scribe, make 4-5 scores in aluminum housing .  
**NOTE: D+D'S replacement bearing is designed longer to avoid shaft replacement.**
- 3 With bearing seated on D+D tool, insert bearing into housing and tap lightly until positioned at correct depth ( as noted before removal ).
- 4 Re-install shaft, washers and clips in order of removal.