



**INSTALLATION TIPS:**

- 1). VERY IMPORTANT, ENSURE **90°** RELATIONSHIP ARE MAINTAINED WITH RUDDER IN MID-SHIPS POSITION
- 2). ENSURE RUDDER FEEDBACK ARM AND RUDDER STOCK CLAMP SWING EQUALLY EACH SIDE OF MID-SHIPS
- 3). LOCATE 7163 RUDDER FEED BACK UNIT NEAR RUDDER STOCK ON A LEVEL SURFACE
- 4). THREADED CONNECTION ROD MAY NEED TO BE LENGTHEN IN ORDER TO ACHIEVE THE CORRECT MOUNTING GEOMETRY.
- 5). ALSO SEE 7163-FAK ADAPTOR KIT
- 6). DIMENSIONS INCHES [MM] SUBJECT TO VARIATION
- 7). REFER TO CABLING DIAGRAM FOR ELECTRICAL CONNECTIONS

| RUDDER STOCK CLAMP<br><b>R</b> (INCH) | STEERING GEAR HARD OVER STOPS |       |
|---------------------------------------|-------------------------------|-------|
|                                       | ANGLE (DEG.)                  | RATIO |
| 8.24                                  | 35                            | 1.23  |
| 7.86                                  | 37                            | 1.17  |
| 7.36                                  | 40                            | 1.10  |
| 7.06                                  | 42                            | 1.05  |
| 6.69                                  | 45                            | 1.00  |
| 6.47                                  | 47                            | 0.96  |

**R = RF ARM X RATIO**

|  |  |  |  |
|--|--|--|--|
| CONTRACT MATERIAL  |  | <b>KOBELT</b> MANUFACTURING CO. LTD.                         |  |
| DIMENSIONS IN INCHES<br>ANGULAR X° ±0.5°<br>LINEAR X.X ±0.03<br>X.XX ±0.010<br>X.XXX ±0.005<br>FRACTIONS ±1/32 |  | DWG L.Z. 120214<br>CHK S.E. 120214<br>SCALE N/A<br>SHEET 1/1 | TITLE<br><b>INSTALLATION FOR<br/>         RUDDER FEED BACK</b><br>DRAWING NO. D7163-INSTALL<br>REV - |
| ✓ ALL MACHINED SURFACES UNLESS OTHERWISE SPECIFIED   |  |  |  |