



| BILL OF MATERIALS     |  |                                                                                                                                                                                                                                                                                                                                                |                     |                       |               |                       |         |            |                               |                                                                                                                                                                                                                                                                             |      |
|-----------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------|-----------------------|---------|------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Shop / Q.C.           |  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                     |                     |                       |               | APPROVALS             |         | DATE       |                               | <div>Monterey Bay Aquarium Research Institute</div> <div><div>MBARI</div><div>7700 Sandholdt RD.</div><div>Moss Landing, CA 95039</div><div>PH: (831) 775-1700</div></div> <div></div> |      |
| Inspector             |  | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                           | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005  | ANGLES<br>±1° | DRAWN<br>J SCHOLFIELD | 7/31/08 |            |                               |                                                                                                                                                                                                                                                                             |      |
| Shop Foreman          |  | 1. DIMENSIONS ARE IN INCHES<br>2. DIMENSION LIMITS HELD AFTER PLATING.<br>3. REMOVE BURRS AND SHARP EDGES .015 MAX.<br>4. MACHINED FILLET RADII .0150-.030.<br>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005<br>6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE. |                     |                       |               | ENGINEER<br>L BIRD    | 2006    |            |                               |                                                                                                                                                                                                                                                                             |      |
| Engineer              |  |                                                                                                                                                                                                                                                                                                                                                |                     |                       |               | CHECKED               |         |            |                               |                                                                                                                                                                                                                                                                             |      |
| NEXT ASSY Description |  | NEXT ASSY Number                                                                                                                                                                                                                                                                                                                               |                     | PROJECT NO.<br>701312 |               |                       |         | SHAFT      |                               |                                                                                                                                                                                                                                                                             |      |
|                       |  |                                                                                                                                                                                                                                                                                                                                                |                     | PROJECT<br>ESP        |               |                       |         |            |                               |                                                                                                                                                                                                                                                                             |      |
| Application           |  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                           |                     |                       |               | WEIGHT                |         | SIZE<br>B  | DWG. NO.<br>10020159DWG       | REV.                                                                                                                                                                                                                                                                        |      |
|                       |  |                                                                                                                                                                                                                                                                                                                                                |                     |                       |               |                       |         | SCALE 1:12 | CAD FILE: MECH ENG ON TORNADO | SHEET 1                                                                                                                                                                                                                                                                     | OF 1 |