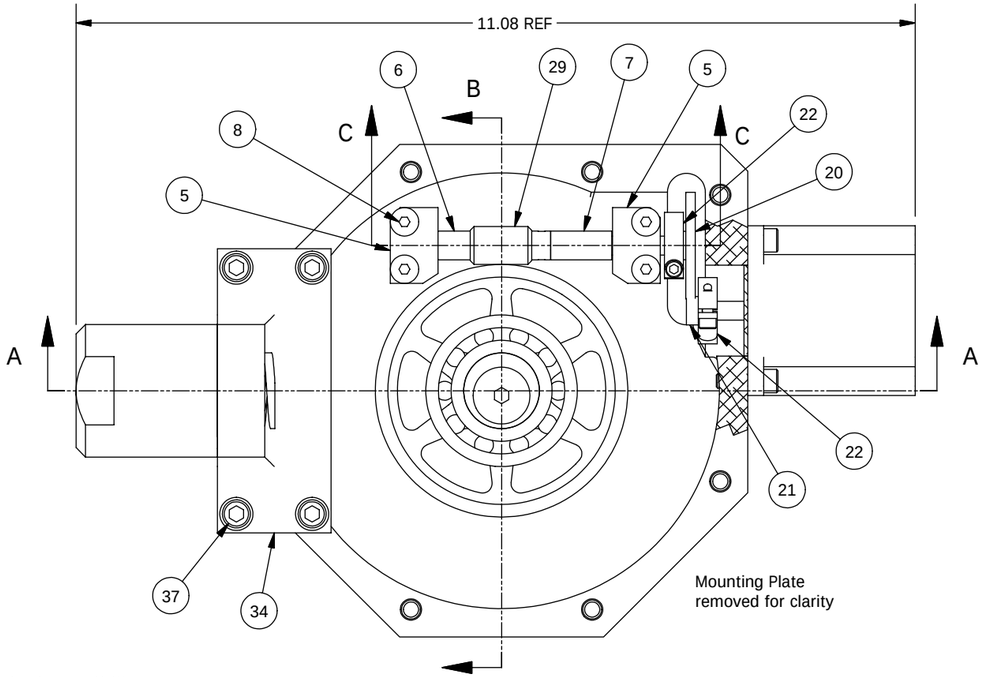
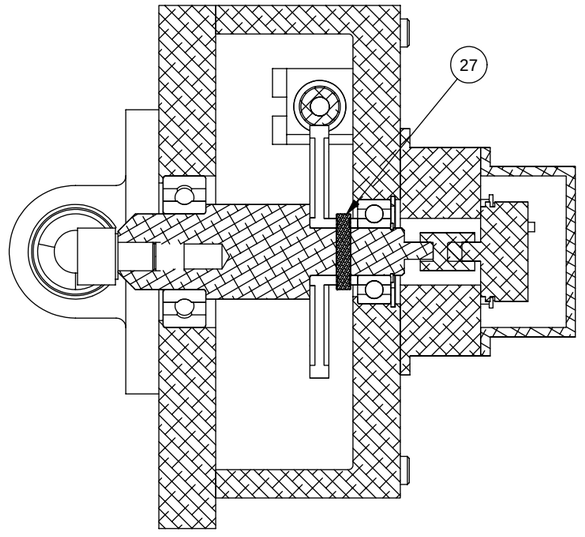
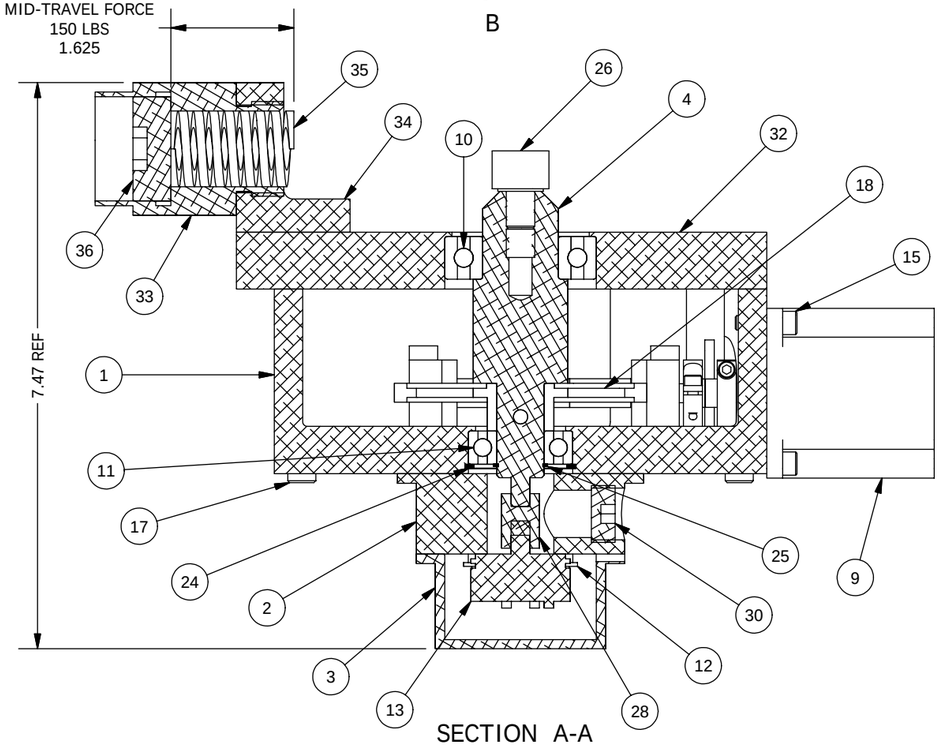
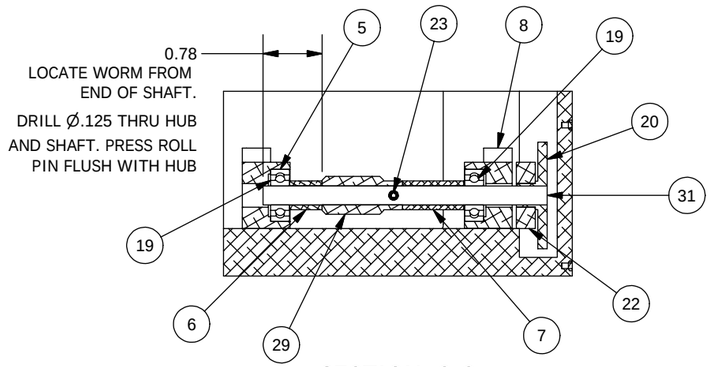


SECTION B-B





SECTION A-A



SECTION C-C

Notes:

1. Locate (press if necessary) worm gear against shoulder on shaft as shown. Drill Ø0.188 thru hub and shaft. Press dowel pin thru assembly.

2. Apply light coating of Krytox grease to perimeter of worm, worm gear, and spur gears.

3. Prior to tightening screws to hold housing against mounting plate, verify a small amount of axial clearance exists in main shaft/bearing assembly. (Interference would result in large undesirable thrust load.)

4. Design modified from Steve Gunnels MIKE spectrograph drawing 00M15250.

ITEM	QTY	DESCRIPTION	PART NUMBER
38	1	Camera Focus Actuator Shear Pad	PFS10013
37	4	SHCS 1/4-20 UNCx0.75	-
36	1	Die Spring Screw Cap MCM96235K21	-
35	1	Die Spring MCM9584K52	-
34	1	Camera Focus Actuator Preload Support	PFS10004
33	1	Camera Focus Actuator Preload Body	PFS10005
32	1	Camera Focus Actuator Mounting Plate	PFS10002
31	1	Shaft 1/4 X 3 3/4 Make from MCM5947K11	-
30	1	Die Spring Screw Cap MCM96235K11	-
29	1	Boston Worm GDUH	
28	1	Coupling MCM59925K92	-
27	1	Dowel Pin MCM98380A510	-
26	1	McGill cam roller CCF-3/4-SB	-
25	1	Truarc retaining ring 5100-62	-
24	1	Truarc retaining ring N5000-137	-
23	1	Spring pin MCM92383A691	-
22	2	Pic clamp L4-3	-
21	1	Pic spur gear H49-22	-
20	1	Pic spur gear H49-88	-
19	2	Boston Bearing 1602DC	-
18	1	Boston Worm Gear D1141 modified	PFS10007
17	8	SHCS 1/4-20 UNCx3	-
16	10	SHCS 6-32 UNCx0.375	-
15	4	SHCS 10-32 UNFx0.625	-
14	4	SHCS 4-40 UNCx0.375	-
13	1	BI Technologies potentiometer 6373R10KFS	-
12	4	Berg Clamp SM-6	-
11	1	Boston Bearing 1623DC	-
10	1	Boston Bearing 1641DC	-
9	1	Superior Electric motor KSL061T1Y	-
8	4	Shoulder Screw MCM94035A208	-
7	1	Camera Focus Actuator Worm Shaft Spacer 2	PFS10010
6	1	Camera Focus Actuator Worm Shaft Spacer 1	PFS10009
5	2	Camera Focus Actuator Worm Support Bracket	PFS10008
4	1	Camera Focus Actuator Drive Shaft	PFS10006
3	1	Camera Focus Actuator Potentiometer Cover	PFS10012
2	1	Camera Focus Actuator Potentiometer Block	PFS10011
1	1	Camera Focus Actuator Housing	PFS10001

Bill of Material

THE OBSERVATORIES
OF THE CARNEGIE INSTITUTION OF WASHINGTON
813 Santa Barbara Street
Pasadena, CA 91101

MATERIAL

EST WEIGHT
15.2 lb

UNLESS OTHERWISE SPECIFIED
FRACTIONAL +/- 1/32 DECIMAL .XX +/- 0.01 ANGULAR +/- 0.1 DEG
.XXX +/- 0.002 GOAL
.XXX +/- 0.005 REQD
BREAK SHARP EDGES MACHINED SURFACES 125
ALL DIMENSIONS IN INCHES

SCALE
1:2

DWN	CRANE	6/6/2006
APVD		
	BY	DATE

P lanet
F inder
S pectrograph

Camera Focus Actuator Assembly

SHEET	DRAWING NUMBER		REV
B	PFS00002	SHT 1 OF 1	1