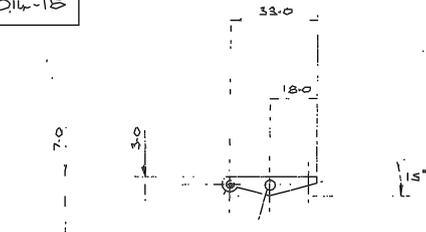


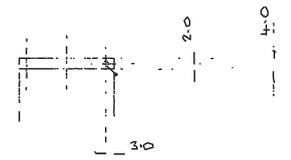
DRAWING NUMBER	No. of Sheets	G.A. Item No.	DRAWING TITLE OR COMPONENT NAME	No. of	MATERIAL STOCK OR ORDER No. AND DATE	REMARKS	ISSUE DATE	ISSUED TO	FINISH DATE
W/GB/000			ASSEMBLY						
W/GB/551			DEKKER SLIDE		BRASS				
/ 552			CARRIER	1	"				
W/GB/553			CARRIAGE	1	AL. ALLOY				
W/GB/554			BASE - LINEAR BEARING	1	"				
/ 555			TOP PLATE	1	"				
/ 556			SIDE PLATE	1	"				
W/GB/557			SIDE PLATE	1	"				
/ 558			SIDE PLATE	1	"				
/ 559			BRACKET - STEPPER MOTOR	1	"				
/ 560			MOUNTING PLATE	1	"				
W/GB/561			GIB STRIP	1	BRASS				
/ 562			CLAMP BRACKET - LEAD SCREW	1	AL. ALLOY				
/ 563			SWITCH FLAG	1	BRASS				
1 / 564			SWITCH BRACKET	1	"				
/ 565			SWITCH PLATE	1	"				
/ 566			SWITCH FLAG	1	"				
W/GB/567			SUPPORT	1	AL. ALLOY				
/ 568			PLATE - MICRO SWITCH	1	"				
/ 569			'DEE-TENT' POST	1	ST. STL.				
/ 570			HOUSING - PLUNGER	1	BRASS				
/ 571			PLUNGER	1	ST. STL.				
/ 572			END CAP - PLUNGER	1	BRASS				
W/GB/573			ROLLER - 'DEE-TENT'	1	DELRI				
/ 574			LEAD SCREW	1	ST. STL.				
/									
/									
/									
/		578	DOWEL $\phi 3 \times 6$ LONG	4	ST. STL.				
/		579	LINEAR BEARING	2 PR.	LIAMATIC XR2-150				
/		580	SPRING	3	TO SUIT				
/		581	SPRING	1	"				
/		582	DOWEL $\phi 2 \times 5$ LONG	3	ST. STL.				
/		583	PROXIMITY SWITCH	2	HETTICH S035A/R				
/		584	MICRO SWITCH	1	BURGESS V42T	7YR1-GP			
/		585	LINEAR STEPPER MOTOR	1	IMPEX K92211-	P2			
JOB TITLE 4.2 ~ ISIS SPECTROGRAPH SLIT AREA DEKKER SLIDE ASSEMBLY						ASSY ORG. No. SHY.10 W/GB/000	SHEET No. 1 of 2	DRAWN BY ASW DATE JUNE '85	
ROYAL GREENWICH OBSERVATORY,						HERSTMONCEUX CASTLE,	HAILSHAM,	SUSSEX	

REMOVE ALL SHARP EDGES



1 HOLE TAP M2.5

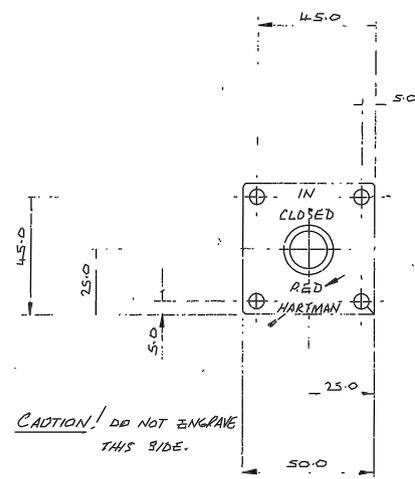
1 HOLE REAM $\phi 4.00$



1 HOLE $\phi 2.0$

36.0

TITLE		
14 DETENT LEVER ARM		
MATERIAL	SCALE	TOLERANCES \pm
BRASS	1:1	X 0.5
FINISH	NO REQS PER UNIT	XX 0.1
BLK. NICKEL PL.	4 OFF	XXX
G.A. No.	DRAWING No.	
W/GI/000	R.G.O. W/GI/011	

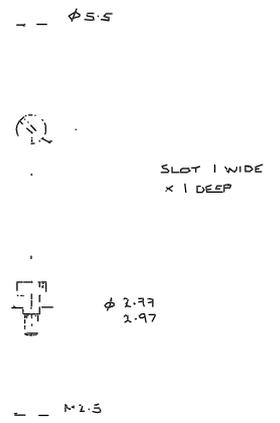


CAUTION! DO NOT ENGRAVE THIS SIDE.

4 HOLES $\phi 5.5$

NOTE
 1 ENGRAVE AS SHOWN ON V/SIDE, LETTER HGT. 4MM.
 2 2 OFF MARKED RED, 3 OFF MARKED BLUE.

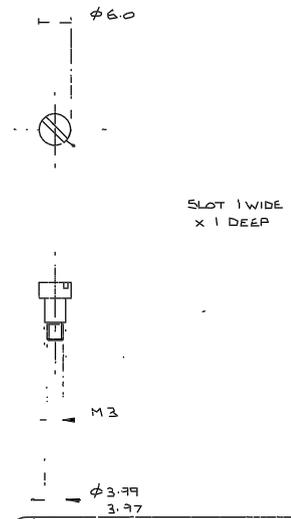
TITLE		
15 SUPPORT PLATE POSH KSD		
MATERIAL	SCALE	TOLERANCES \pm
ALLOY	1:1	X 0.5
FINISH	NO REQS PER UNIT	XX 0.1
BLK. ANODISE	6 OFF	XXX
G.A. No.	DRAWING No.	
W/GI/000	R.G.O. W/GI/015	



SLOT 1 WIDE X 1 DEEP

$\phi 2.97$
2.97

M2.5



SLOT 1 WIDE X 1 DEEP

$\phi 3.97$
3.97

M3

NOTE!
 INCOMING RED - 6 OFF @ 69.0
 INCOMING BLUE - 6 OFF @ 71.0
 OUTGOING RED - 6 OFF @ 72.0

LENGTH 'L'

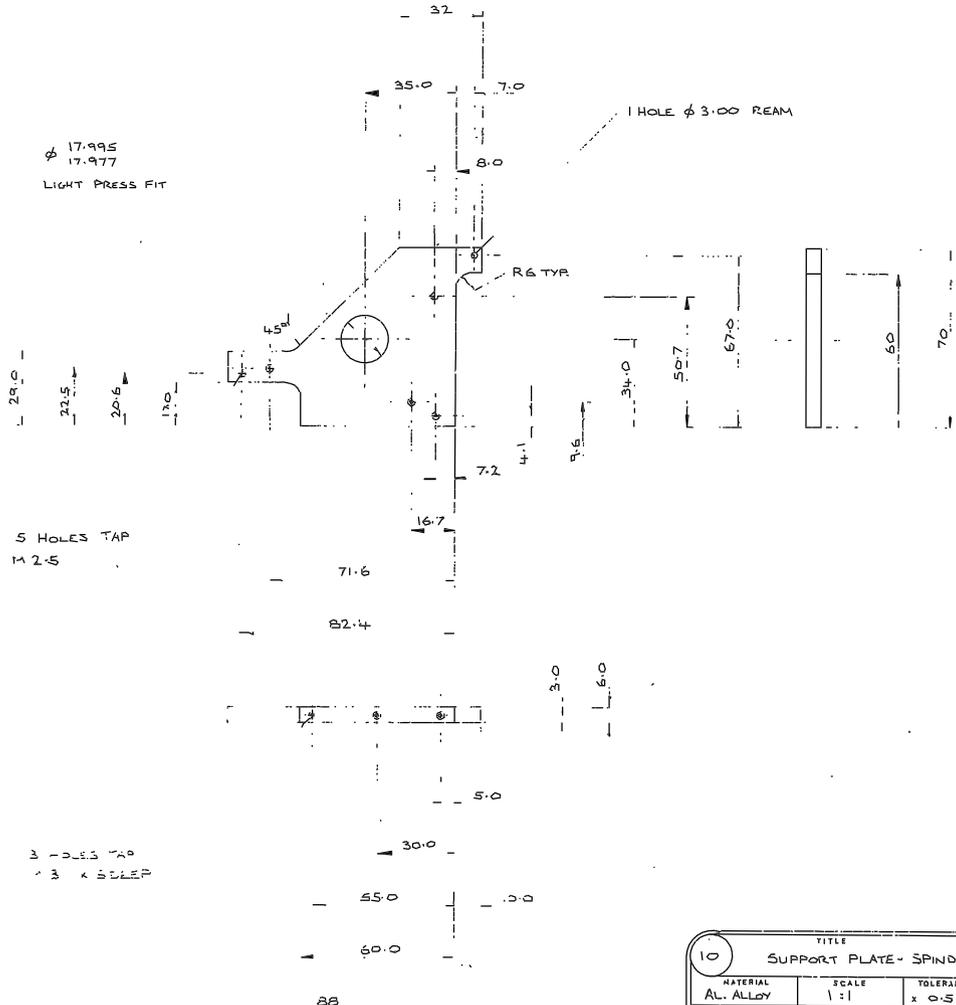
TITLE		
16 PIVOT SCREW - BEARING		
MATERIAL	SCALE	TOLERANCES \pm
ST. STL.	2:1	X 0.5
FINISH	NO REQS PER UNIT	XX 0.1
CLEAN	+ OFF	XXX
G.A. No.	DRAWING No.	
N ST.000	R.G.O. W/GI/016	

TITLE		
17 PIVOT SCREW - DETENT		
MATERIAL	SCALE	TOLERANCES \pm
ST. STL.	2:1	X 0.5
FINISH	NO REQS PER UNIT	XX 0.1
CLEAN	+ OFF	XXX
G.A. No.	DRAWING No.	
W/GI/000	R.G.O. W/GI/017	

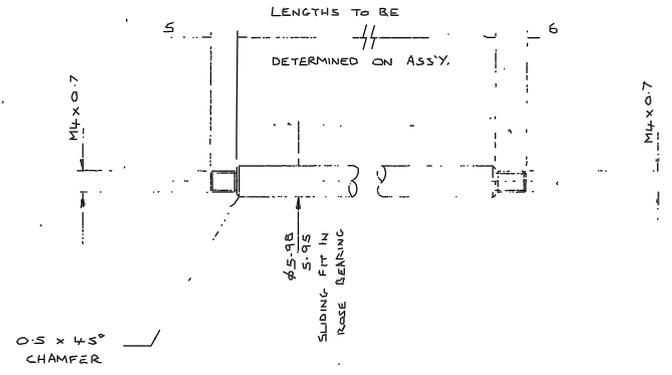
TITLE		
18 SPACER POSH		
MATERIAL	SCALE	TOLERANCES \pm
AL. ALLOY	1:1	X 0.5
FINISH	NO REQS PER UNIT	XX
BLK. ANODISE	6 OFF EACH	XXX
G.A. No.	DRAWING No.	
W/GI/000	R.G.O. W/GI/018	

TOLERANCES (Unless otherwise stated)										Material		Dimns in m.m.		Scale		THIRD ANGLE PROJECTION		Drawing No.		
Issue	Mod. No.	Date	Drawn By	Issue	Mod. No.	Date	Drawn By	X	±	Finish	Drng. No.	No. Res.	Royal Greenwich Observatory, Herstmonceux Castle, Hailsham, Sussex.	1	DEC 85	ADW	This	L.2m 1S1S SPECTROGRAPH	G.A. No.	W/GI/014-18
								XX	±		Used on							HARTMAN SHUTTER - DETAILS		

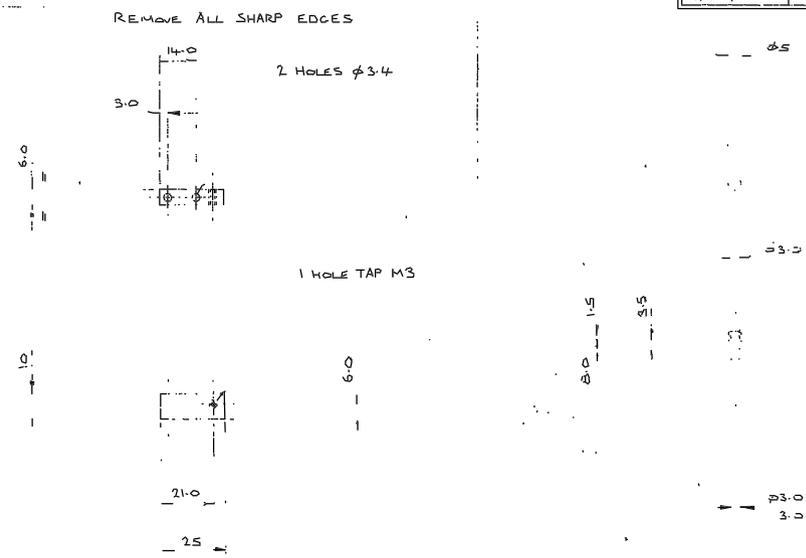
REMOVE ALL SHARP EDGES



TITLE		
10 SUPPORT PLATE - SPINDLE		
MATERIAL	SCALE	TOLERANCES \pm
AL. ALLOY	1:1	X 0.5
FINISH	NO REQ PER UNIT	XX 0.1
BLK. ANODISE	1/2 OFF	XXX
G.A. No.	DRAWING No.	
W/G1/000	R.G.O. W/G1/010	



TITLE		
11 PUSH/PULL ROD		
MATERIAL	SCALE	TOLERANCES \pm
BRASS	2:1	X 0.5
FINISH	NO REQ PER UNIT	XX 0.1
CLEAN	1/2 OFF	XXX
G.A. No.	DRAWING No.	
W/G1/000	R.G.O. W/G1/011	



TITLE		
12 STOP BLOCK		
MATERIAL	SCALE	TOLERANCES \pm
AL. ALLOY	1:1	X 0.5
FINISH	NO REQ PER UNIT	XX 0.1
BLK. ANODISE	1/2 OFF	XXX
G.A. No.	DRAWING No.	
W/G1/000	R.G.O. W/G1/012	

TITLE		
13 SPRING POST		
MATERIAL	SCALE	TOLERANCES \pm
ST. STL.	1:1	X 0.5
FINISH	NO REQ PER UNIT	XX 0.1
CLEAN	1/2 OFF	XXX
G.A. No.	DRAWING No.	
W/G1/000	R.G.O. W/G1/013	

Issue	Mod. No.	Date	Drawn By	Issue	Mod. No.	Date	Drawn By

Tolerances (Unless otherwise stated)
 X \pm
 XX \pm
 XXX \pm

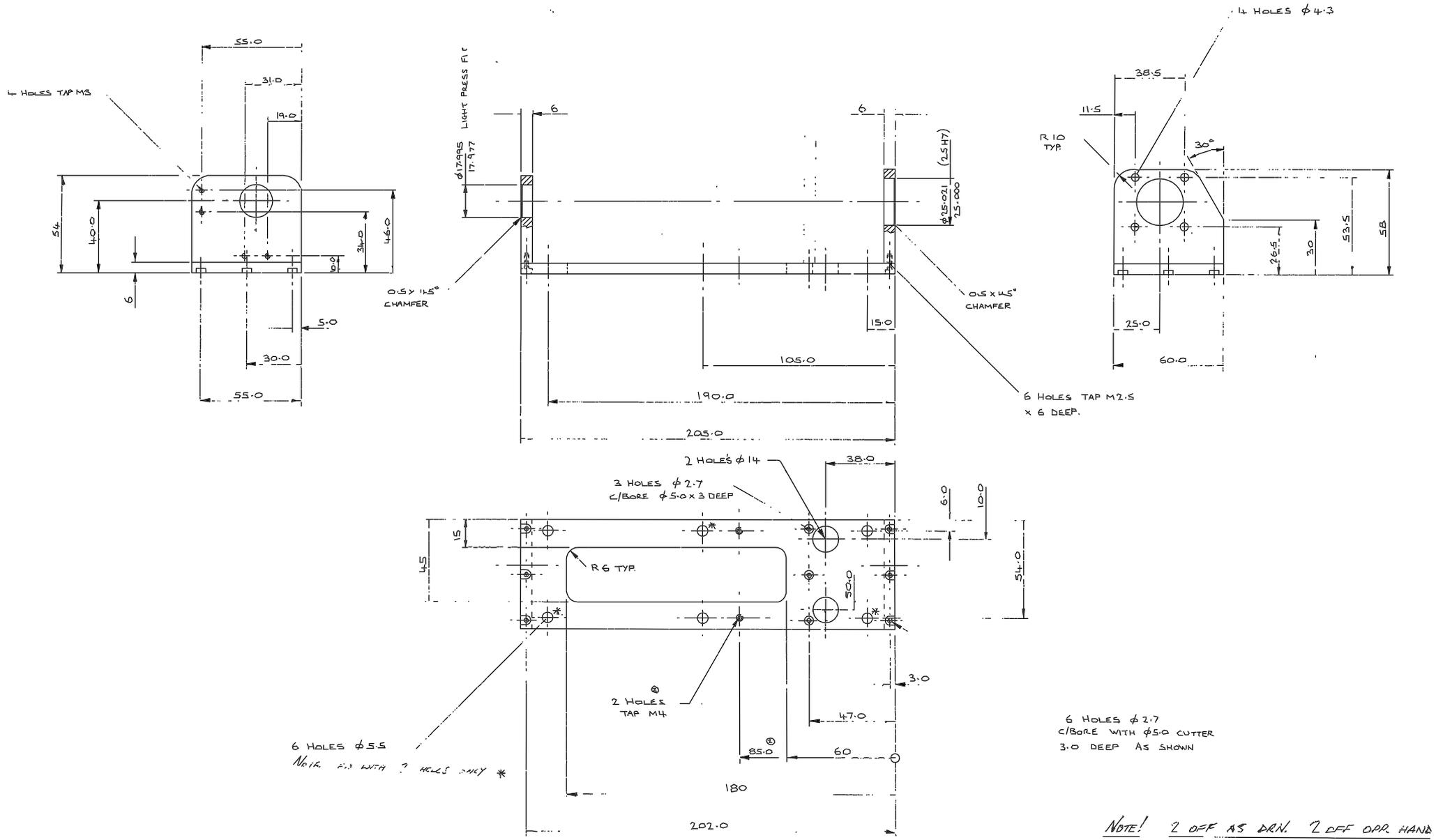
Material	Finish	Dim. in mm.	Scale

ROYAL GREENWICH OBSERVATORY,
 HERSTMONCEUX CASTLE,
 HAILSHAM SUSSEX.

THIRD ANGLE PROJECTION
 Title 4.2m ISIS SPECTROGRAPH
 HARTMAN SHUTTER - DETAILS

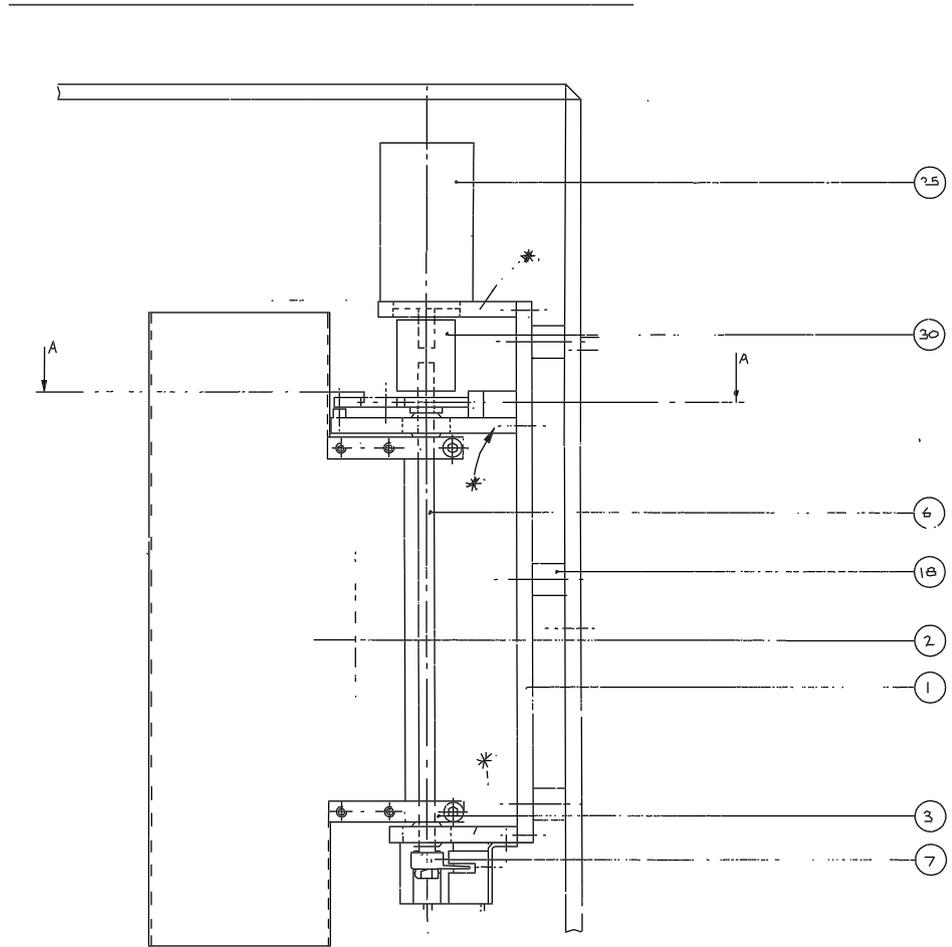
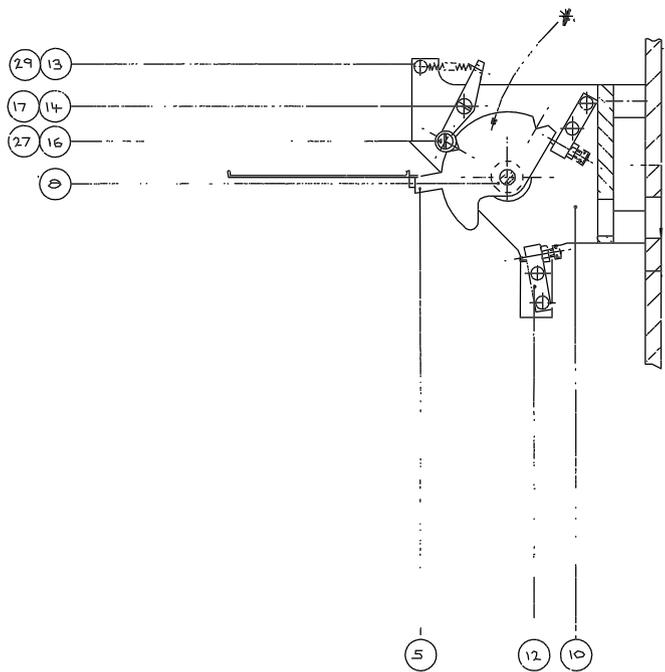
G.A. No.
 Drawing No.
 W/G1/010-13

REMOVE ALL SHARP EDGES

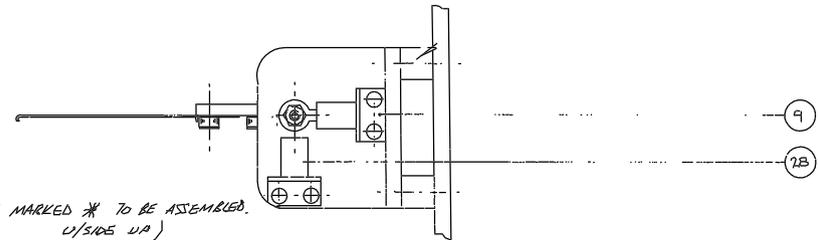


				Tolerances (Unless otherwise stated)		Material		Dimms in m.m.		Scale 1:1		THIRD ANGLE PROJECTION		G.A. No. W/G1/000	
				X ± 0.5		AL. ALLOY		2 PAIR		ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE, HAILSHAM SUSSEX.		Title 4.2 m ISIS SPECTROGRAPH MOUNTING BRACKET - HARTMAN SHUTTER		Drawing No.	
				XX ± 0.1		BLK. ANODISE.		Drg. No.						W/G1/001	
				XXX ±				Used on							

SECTION A-A



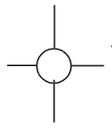
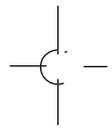
SEE NOTE DES NO W/G1/018



NOTE! 2 OFF AS SHN.
2 OFF OPP HAND (ITEMS MARKED * TO BE ASSEMBLED U/SIDE UP)

		2	APR 1957	RSW	Tolerances (Unless otherwise stated)	Material	Dimns in m.m.	Scale 1:1	THIRD ANGLE PROJECTION		G.A. No.
		1	JAN 1956	RJD					ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE, HAILSHAM		Title 4.2 m ISIS SPECTROGRAPH HARTMAN SHUTTER ASS'Y.
Issued	Mod. No.	Date	Drawn By	Issue	Mod. No.	Date	Drawn By	Used on			W/G1/000

DRAWING NUMBER	No. of Sheets	G.A. Item No.	DRAWING TITLE OR COMPONENT NAME	No. of	MATERIAL STOCK OR ORDER No. AND DATE	REMARKS	ISSUE DATE	ISSUED TO	FINISH DATE
W/GI/000	1		ASSEMBLY						
W/GI/001	1	1	MOUNTING BRACKET	4	AL. ALLOY				
W/GI/002	1	2	SHUTTER BLADE	4	"				
/ /003		3	SHUTTER FIXING ARM	8	"				
/ /004		4	CLEVIS	4	"				
W/GI/005		5	'DEE-TENT' PLATE	4	ST. STL.				
/ /006	1	6	SPINDLE	4	"				
/ /007		7	SWITCH FLAG	4	BRASS				
/ /008		8	SPACER	4	BRASS				
/ /009		9	SWITCH BRACKET	8	AL. ALLOY				
W/GI/010	1	10	SUPPORT PLATE - SPINDLE	4	"				
/ /011		11	PUSH/PULL ROD	4	BRASS - - - - - SIZE ON ASSY.				
/ /012		12	STOP BLOCK	8	AL. ALLOY				
/ /013		13	SPRING POST	4	ST. STL.				
W/GI/014		14	'DEE-TENT' LEVER ARM	4	BRASS				
/ /015		15	SUPPORT PLATE - - - - - PUSH ROD - - - - -	4	AL. ALLOY				
/ /016		16	PIVOT SCREW - BEARING	4	ST. STL.				
/ /017		17	PIVOT SCREW - 'DEE-TENT'	4	"				
/ /018		18	SPACER POSTS	4 EACH	AL. ALLOY				
/ /		19							
/ /		20							
/ /		21							
/ /		22							
/ /		23							
/ /		24							
/ /		25	ROTARY ACTUATOR	4	KUHNKE 701.010				
/ /		26	ROSE BEARING	12	MAC 06 LOOSE FIT				
/ /		27	BEARING - 'DEE-TENT'	4	RMB RV 308X				
/ /		28	PROXIMITY SWITCH	8	HETTICH S035A/R				
/ /		29	TENSION SPRING	4	TO SUIT				
/ /		30	FLEXIBLE COUPLING	4	HELI-CAL	MAC 20-6-6			
/ /		31	PUSH/PULL KNOB	4	WDS 132-211				
/ /									
/ /									
/ /									
JOB TITLE 4.2m ISIS SPECTROGRAPH						ASSY DRG. No.	SHEET No.	DRAWN BY AJW	
HARTIAN SHUTTER ASS'YS						W/GI/000	1	DATE JAN'86	
ROYAL GREENWICH OBSERVATORY,						HERSTMONCEUX CASTLE,	HAILSHAM,	SUSSEX	



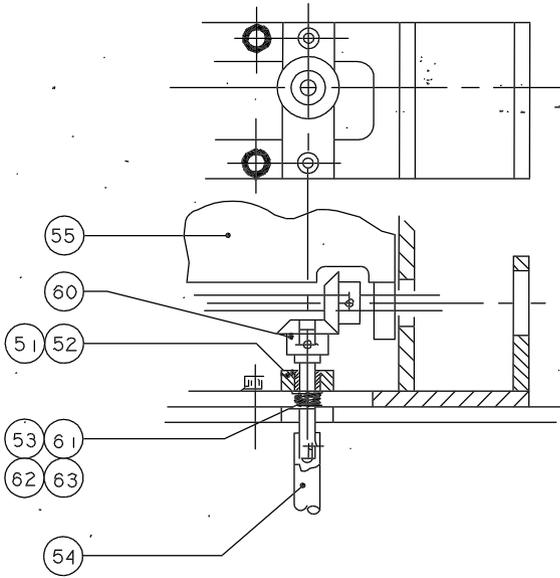
DRAWING NUMBER	No. of Sheets	G.A. Item No.	DRAWING TITLE OR COMPONENT NAME	No. of No.	MATERIAL STOCK OR ORDER No. AND DATE	REMARKS	ISSUE DATE	ISSUED TO	FINISH DATE
W/GB/000			ASSEMBLY						
W/GB/601			BASE	1	AL. ALLOY				
/ /602			CARRIER	1	"				
W/GB/603			HOUSING - FIELD LENS + PRISM	1	"				
/ /604			BRACKET - SLIDE MOTION	1	"				
/ /605			STOP BRACKET	1	"				
/ /606			BRACKET - STEPPED MOTOR	1	"				
W/GB/607			STOP	1	"				
/ /608			FLAV PROXIMITY SWITCH	1	BRASS				
/ /609			LEAD SCREW	1	ST. STL.				
/ /610			MOUNTING PLATE	1	AL. ALLOY				
/ /611			STOP BRACKET	1	"				
/ /612			RETAINER - LENS + PRISM	1	BERYLUM COPPER				
W/GB/613			RETAINER - LENS + PRISM						
/ /614			KINEMATIC SEATS	3	440 ST. STL.	HARDENED			
/ /615			LOCATING SCREW	3	MODIFY M6 ST. STL. SCREW				
/ /									
/ /									
/ /									
/ /									
/ /		620	LINEAR STEPPER MOTOR	1	IMPEX K92211	P2			
/ /		621	LINEAR BEARING	1 SET	UNIMATIC XR2	090			
/ /		622	PROXIMITY SWITCH	4	HETTICH 5035	A/R			
/ /		623	ANAMORPH FIELD LENS	1	60 x 10 x 3 mm				
/ /		624	WOLLASTON (ALCO) PRISM	1	40 x 10 x 16 mm				
/ /		624	CALCITE BLOCK	1	60 x 10 x 20 mm				
/ /		625	POLARISER LENS	1	60 x 10 x 3 mm				
/ /									
/ /									
/ /									
/ /		630	SOG. HD. CAP SCREW M2 x 8	13					
/ /		631	" " " M3 x 8	9					
/ /		632	" " " M4 x 10	13					
/ /		633	" " " M4 x 16	3					
/ /		634	" " " M4 x 12	2					
/ /		635	DISK HD. SCREW M4 x 10	4					

JOB TITLE 4.2 m 1515 SPECTROGRAPH SLIT AREA.
WOLLASTON PRISM + FIELD LENS ASSEMBLY

ASSY DRG. No. SHR.11 W/GB/000 SHEET No. 1 OF 2 DRAWN BY AJW
DATE MAY '85

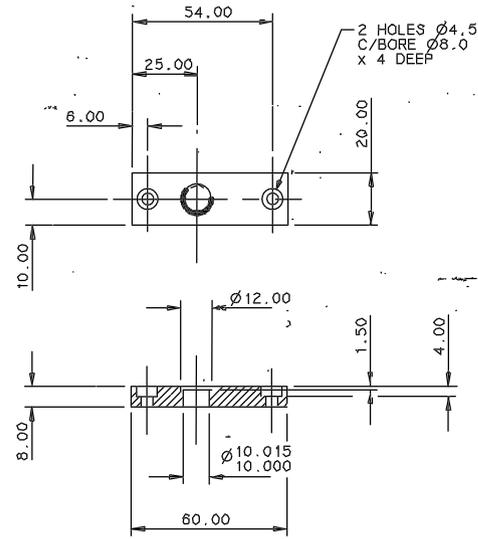
ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE, HAILSHAM, SUSSEX

Drawing No.
W/GI/050-5

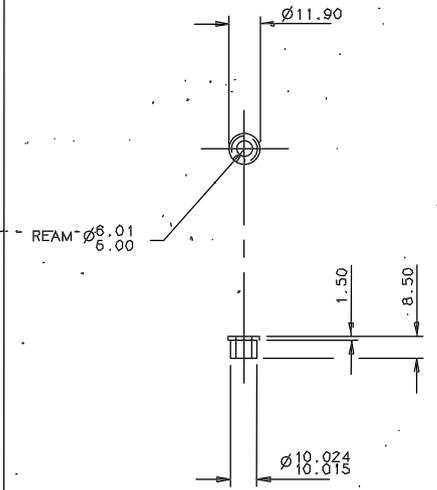


TITLE		DISC REF.
ASS'Y - MANUAL OVERRIDE		
MATERIAL	SCALE	TOLERANCES ±
FINISH	No. RECD. PER UNIT	X.X.XX
	4 OFF	X.XX
S.A. No.	DRAWING No.	
RGD W/GI/050		

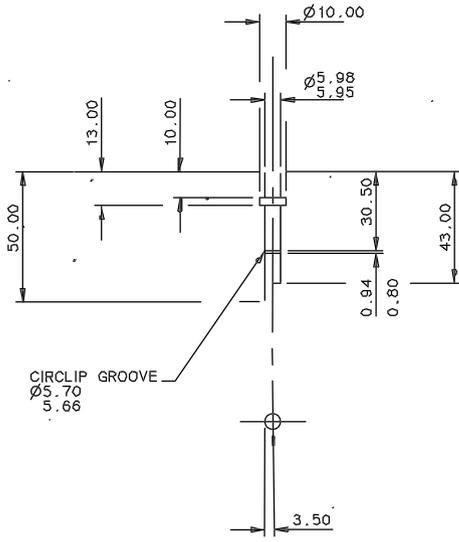
DRILL & TAP MOUNTING BRACKET TO SUIT SEE W/GI/001



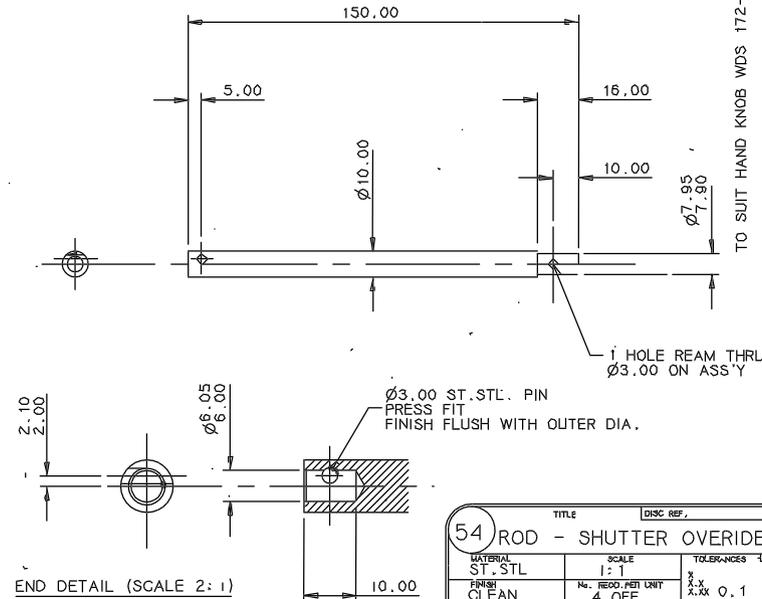
TITLE		DISC REF.
51 BEARING HOUSING		
MATERIAL	SCALE	TOLERANCES ±
AL. ALLOY	1:1	X.X.XX
FINISH	No. RECD. PER UNIT	X.XX 0.1
BLK. ANODISE	4 OFF	
S.A. No.	DRAWING No.	
W/GI/050	RGD W/GI/051	



TITLE		DISC REF.
52 BUSH - BEARING		
MATERIAL	SCALE	TOLERANCES ±
PTFE/OILITE	1:1	X.X.XX
FINISH	No. RECD. PER UNIT	X.XX 0.1
CLEAN	4 OFF	
S.A. No.	DRAWING No.	
W/GI/050	RGD W/GI/052	

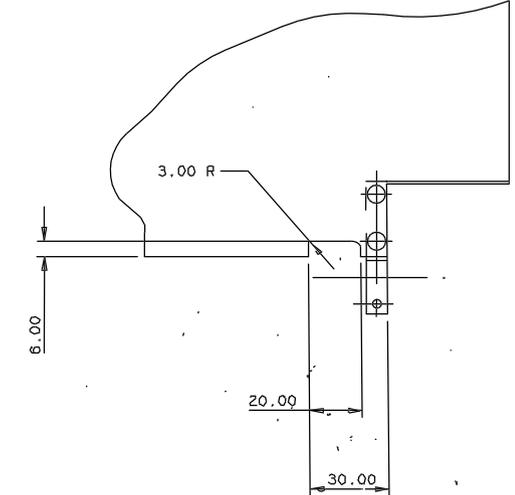


TITLE		DISC REF.
53 SHAFT		
MATERIAL	SCALE	TOLERANCES ±
ST. STL	1:1	X.X.XX
FINISH	No. RECD. PER UNIT	X.XX 0.1
CLEAN	4 OFF	
S.A. No.	DRAWING No.	
W/GI/050	RGD W/GI/053	



TITLE		DISC REF.
54 ROD - SHUTTER OVERRIDE		
MATERIAL	SCALE	TOLERANCES ±
ST. STL	1:1	X.X.XX
FINISH	No. RECD. PER UNIT	X.XX 0.1
CLEAN	4 OFF	
S.A. No.	DRAWING No.	
W/GI/050	RGD W/GI/054	

NOTE
4 OFF SHUTTER BLADES
2 OFF AS SHOWN, 2 OFF OPPOSITE HAND
ENSURE CORRECT ORIENTATION OF CUT OUT



TITLE		DISC REF.
55 MODS. TO SHUTTER BLADE		
MATERIAL	SCALE	TOLERANCES ±
W/GI/002	1:1	X.X.XX
FINISH	No. RECD. PER UNIT	X.XX 0.1
CLEAN	SEE NOTE	
S.A. No.	DRAWING No.	
W/GI/050	RGD W/GI/055	

Material		Scale		Drawing No.		Title		Drawing No.	
Material	Finish	Drq. No.	No. Req.	Used on	Dimms. in m.m.	Scale	ROYAL GREENWICH OBSERVATORY HERSTMONCEUX CASTLE HAILSHAM SUSSEX	THIRD ANGLE PROJECTION	GA No.
							Title	4.2m ISIS - HARTMAN SHUTTER DETAILS - MANUAL OVERRIDE	W/GI/050-5

DRAWING NUMBER	No. of Sheets	G.A. Item No.	DRAWING TITLE OR COMPONENT NAME	No.	MATERIAL STOCK OR ORDER No. AND DATE	REMARKS	ISSUE DATE	ISSUED TO	FINISH DATE	
W/GB/000			ASSEMBLY							
W/GB/501			BASE WEDGE	1	AL. ALLOY					
W/GB/502			SLIT JAWS	1 PR	En 36D					
/ / 503			SUPPORT PLATE	1	AL. ALLOY					
/ / 504			SUPPORT PLATE	1	AL. ALLOY					
W/GB/505			SLIDE BASE	1	AL. ALLOY					
/ / 506			SLIDE PLATE	1	AL. ALLOY					
/ / 507			SLIDE PLATE	1	AL. ALLOY					
W/GB/508			LEVER	1	AL. ALLOY					
/ / 509			PIVOT POST	1	ST. STL.					
/ / 510			PUSH ROD	1	AL. ALLOY					
W/GB/511			TRANSDUCER BRACKET	1	AL. ALLOY					
/ / 512			PULL BRACKET	1	AL. ALLOY					
/ / 513			BUTTON	1	ST. STL.					
/ / 514			ADJUSTMENT SCREW	1	ST. STL.					
W/GB/515			BRACKET MOTOR MIKE	1	AL. ALLOY					
/ / 516			ADJUSTING SCREW - PUSH ROD	1	ST. STL.					
/ / 517			SPRING POST	2	ST. STL.					
/ / 518			STOP SCREW BLOCK	1	AL. ALLOY					
/ /										
/ /		520	MOTOR MIKE	1	ARDEL KINEMATIC SA-1A					
/ /		521	LINEAR TRANSDUCER	1	AUTO. SYSTEMS LAG. 1072 GRADE A.					
/ /		522	ANGULAR CONTACT BEARING	2	RMB RA4130X "					
/ /		523	LINEAR BEARING	2 SETS	UNIMATIC XR2-045					
/ /		524	LINEAR BEARING	1 SET	UNIMATIC XR2-105					
/ /		525	GRUB SCREW M5 x 20 LG	1	ST. STL.					
/ /		526	TENSION SPRING	1	TO SUIT					
/ /		527	WASHER M3	1						
/ /		528	CHEESE HD. SCREW M3 x 4	6						
/ /		529	" " " M3 x 8	6						
/ /		530	C/SK. SCREW M3 x 10	11						
/ /		531	SOC. HD. CAP SCREW M3 x 12	2						
/ /		532	" " " M3 x 10	2						
/ /		533	" " " M4 x 10	2						
/ /		534	" " " M3 x 8	3						
/ /		535	" " " M2 x 8	20						
JOB TITLE 4-21 1515 SPECTROGRAPH SLIT AREA					ASSY DRG. No. W/GB/000		SHT. 9	SHEET No. 1 OF 2	DRAWN BY RJW DATE JUNE '65	
ROYAL GREENWICH OBSERVATORY,					HERSTMONCEUX CASTLE,		HAILSHAM,		SUSSEX	

