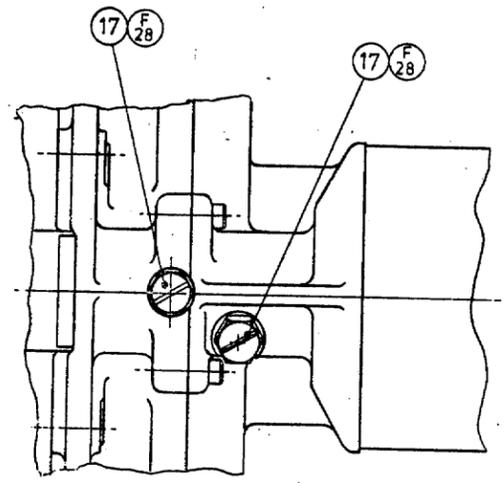
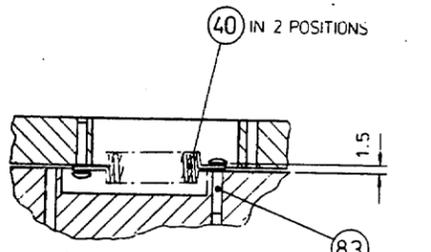


WIRING CONNECTIONS

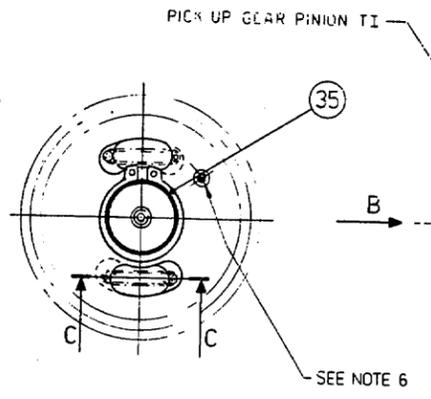


PART VIEW ON ARROW 'D'

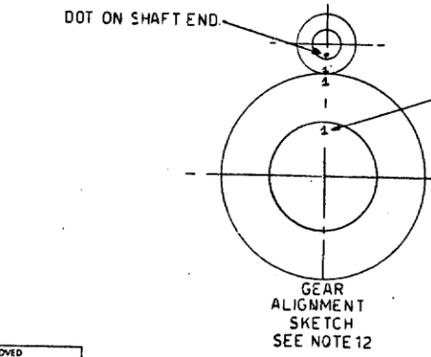
- ALL BEARINGS ARE PRE-GREASED BY BEARING MANUFACTURER AND MUST NOT BE CLEANED OR DEGREASED.
 - POSITION OF SPRING ANCHOR PINS ITEM 83 IN PINION ASS'Y ITEM 3 MAY BE CHANGED ON ASSEMBLY TO SUIT BEST FLANK OF TEETH ON BULL GEAR AT ENGINEERS DISCRETION
 - THE ENCODER IS A PRECISION ITEM OF EQUIPMENT AND SHOULD BE HANDLED WITH CARE AVOID SHOCK TO THE UNIT PARTICULARLY TO THE SHAFT (ROTOR) WHICH IS MOUNTED ON BEARINGS TO EXTREMELY FINE TOLERANCES
 - LABEL ITEM 18 TO BE FIXED IN POSITION SHOWN USING ITEMS 72 & 73 (ADHESIVE) TO MRP-815-01-12
 - AS BUILT NOTES RE NOTE 8 PINION MARKED C TO BE ASSEMBLED CLOCKWISE AS SHOWN IN SECTION C C. PINION MARKED D TO BE ASSEMBLED ANTI CLOCKWISE
 - ALIGN GEARS SO THAT N° 1 TOOTH OF EACH GEAR IS AS SHOWN IN SKETCH.
 - RIVETS ITEMS 83 AND 84 TO BE FITTED INTO RESPECTIVE GEARS TO DIM SHOWN AND RETAINED WITH LOCTITE ITEM 70 TO MRP-815-01-12.
 - SHIMS ITEM 15 TO BE FITTED TO GIVE END FLOAT OF 0.025 ± 0.01
 - CONTACT FACES OF ANTI-BACKLASH GEARS AND TEETH OF ITEMS 2 AND 10 TO BE LIGHTLY SMEARED WITH ITEM 74.
 - COUPLING ITEM 46 TO BE FITTED TO SHAFT OF ENCODER ITEM 47 TO DIM SHOWN BEFORE ASSEMBLY INTO ITEM 1.
 - ITEMS 77, F4, F10 AND SCREWS HOLDING TWO HALVES OF GEARCASE TO BE LOCKED INTO CASTING WITH LOCTITE ITEM 71 TO MRP-815-01-12
 - AFTER ASSEMBLY OF PINION ITEM 10 IN MESH WITH GEAR ITEM 2, REMOVE PIN ITEM 16 AND USE TO POSITION TWO HALVES OF PINION ITEM 3
- WARNING**
THIS PIN TO THEN REMAIN IN POSITION UNTIL ASSEMBLY OF ENCODER UNIT INTO TELESCOPE



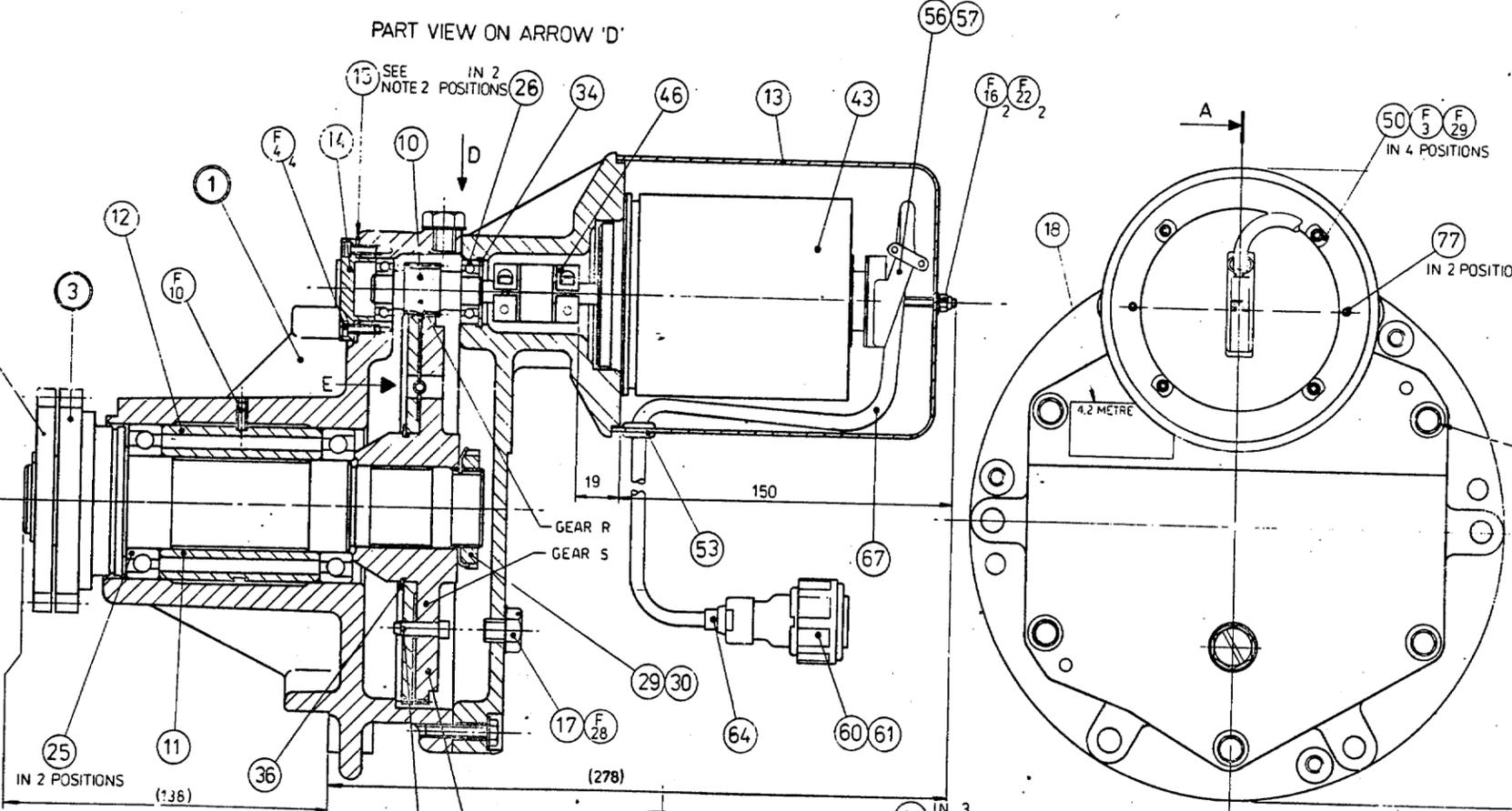
PART SECTION ON C-C
SCALE 2:1



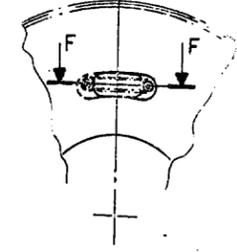
SCRAP VIEW ON ARROW 'B'



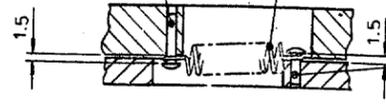
GEAR ALIGNMENT SKETCH
SEE NOTE 12



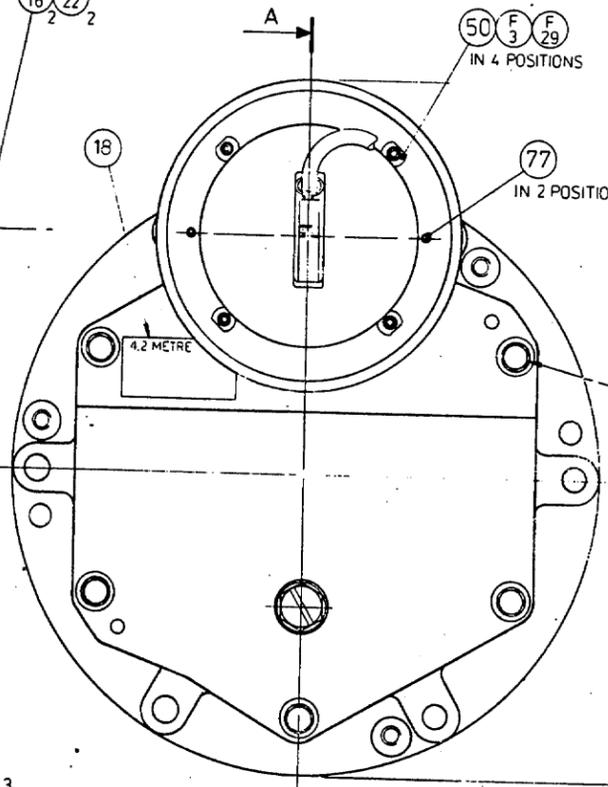
SECTION A-A



SCRAP VIEW ON ARROW 'E'



PART SECTION ON F-F
SCALE 2:1



SEE NOTE 5

OVERALL GEAR RATIO
= $\frac{895}{22} \times \frac{170}{21}$
= 329.78

4.2 METRE WILLIAM HERSCHEL TELESCOPE
FOR
OBSERVATORIO DEL ROQUE DE LOS MUCHACHOS
LA PALMA
AND
ROYAL GREENWICH OBSERVATORY

'AS MADE' DWG

WEIGHT 24 Kg

FREEMAN FOX & PARTNERS
APPROVED
No. L-45-0920 Rev. 2
Date 11-5-1982

ASSOCIATED ITEMS AVAILABLE FOR THIS DRAWING		MARK
ITEM	SUFFIX	
DRAWING LIST	J	
ITEM LIST	K	X
TEST SPEC	L	
WIRING LIST	M	
CCT DIAGRAM	Z	
SAFETY WARNING	NO	

CHECKED m Edwards	APPROVED [Signature]	APPROVED (PROD) [Signature]
DRAWN [Signature]	TRACED [Signature]	ISSUED BY JLE CONTROL D.O

UNLESS OTHERWISE STATED SCREW THREADS TO BE ISO METRIC COARSE PITCH MEDIUM CLASS TO BS 3643 PART 2

DIMS IN	MATERIAL	MARCONI SPEC	FINISH	MARCONI SPEC	TOLERANCES, UNLESS OTHERWISE STATED:
m m					± 0.5
ORIGINAL SCALE					
1:1					

MARCONI RADAR SYSTEMS LIMITED
CHELMSFORD & LEICESTER ENGLAND

SECURITY CLASSIFICATION

TITLE NHO 4.2m TELESCOPE
INCREMENTAL ENCODER UNIT

MARCONI DRAWING No. L-45-0920
SERVICES DRAWING No.