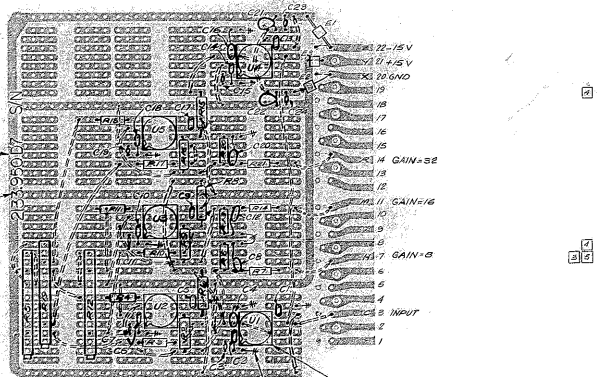
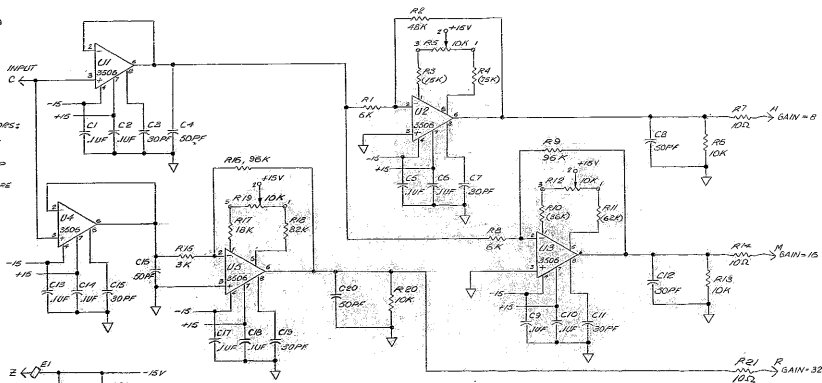


NOTES: UNLESS OTHERWISE NOTED

1. ASSY NO & SERIAL NO TO BE MARKED IN 18 HIGH LETTERS IN BLACK INK APPROX POSITION AS SHOWN.
2. -W SYMBOL INDICATES SOLDERED CONNECTIONS TO GROUND PLANE (NOT SHOWN) ON COMPONENT SIDE.
3. WITH INPUT (PINS) CONNECTED TO GROUND, OUTPUT NOISE AND OFFSET OF AMPLIFIER U1 & U2 MUST BE LESS THAN 3 MILLIVOLTS OTHER WISE REPLACE THE AMPLIFIER.
4. S/A (SELECT IN ASSEMBLY) RESISTORS: SELECT TO ADJUST OUTPUT OF OP AMP U1P TO ZERO WITH RES-DW-85 IN 100K. REPEAT FOR U2 S/A'S.
5. U3 & U5 REQUIRED MAXIMUM OVERLOAD CAP. 0.001F.
6. WIRE WITH EE ENVELOPED SHIELDED WIRE.
7. CAPACITORS $\geq 1 \mu F$ 100% $< 1 \mu F$ 70%.



REVISIONS						
REV	LR	DESCRIPTION	CHK	DATE	BY	APPD
A		REVISED VALUES CHANGED	RAJ	3-7-76	DK	DAE

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5	7717-245	IC CONVERSION PAD	THERMALLOY	82
5	C 380B02	SOCKET	TEXAS INS	81
3		FERRITE BEAD		80
7		RESISTOR	22K	78
5		RESISTOR	10K, 1/2W	79
8		RESISTOR	10K, 1/2W	77
1		RESISTOR	51A	76
1		RESISTOR	51A	75
1		RESISTOR	18K	74
2		RESISTOR	36K, 005% WSHAY	73
1		RESISTOR	48K, 005% W	72
2		RESISTOR	48K, 005% W	71
7		RESISTOR	3M, 005% WSHAY	70
2		CAPACITOR	100UF	69
10		CAPACITOR	1UF	68
3		CAPACITOR	30PF	67
5		CAPACITOR	30PF	66
2		CAPACITOR	10UF 25V	65
3	1202-W	TEMPFOT	10K	64
3	3506-J	OPERATIONAL AMP	BIPO-3506	63
2		OPERATIONAL AMP	BIPO-3506	62
1	11DE-3-0P	CIRCUIT BOARD	DOUGLAS	61

PARTS LIST		REF DES	ZONE	ITEM NO.
<p>TOLERANCES UNLESS OTHERWISE NOTED DECIMALS FRACTIONS .XX ± .01 .5 ± .01 .XXX ± .01 .ANGULAR .X ± .01 .X ± .01</p>				
<p>4-11 TELESCOPE FT.S.</p>				
<p>KITT PEAK NATIONAL OBSERVATORY ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. 1800 CONTACT WITH NATIONAL SCIENCE FOUNDATION</p>				
<p>COMPUTER CARDASSY. IS 1350.422; ISM</p>				
<p>HIGH GAIN PRECISION AMPLIFIERS</p>				
SCALE 2:1		DESIGNER	DATE	REV
PRINT NUMBER		CHKD	2/33	A
		APPROVED BY	3-9-76	
		REVISED BY	(A) 1	