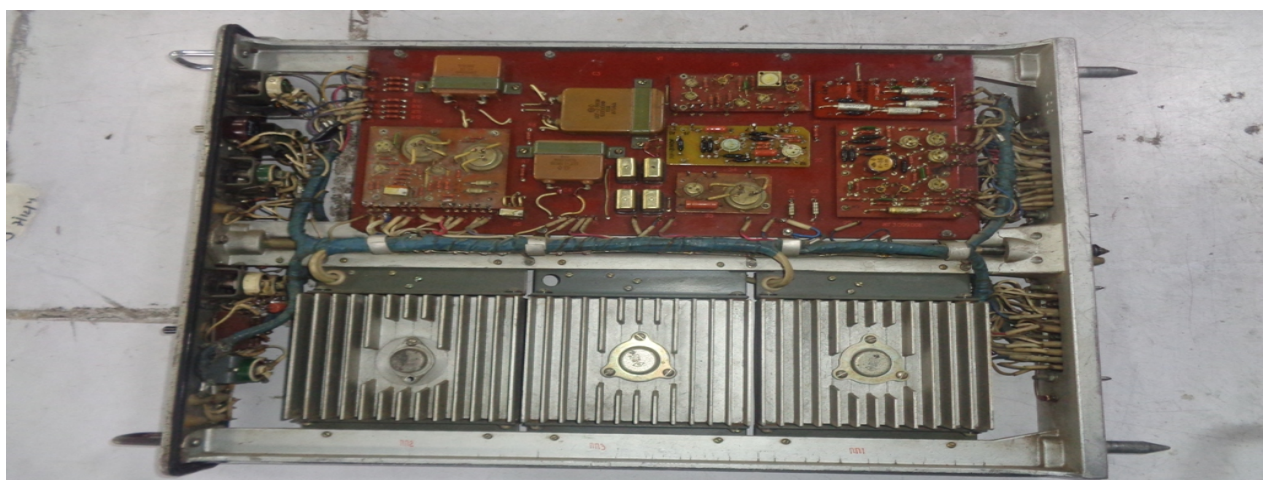


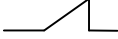
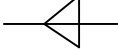
UNIT-7 (HORIZONTAL SWEEP UNIT)

1	Nomenclature/ Part No./ GIG No	Unit-7 / ZHG2.051.002 SP/ 679231
2	Year of Procurement/Source	1980/ OEM (Ex-Russia)
3	Fleet/ Sub system/ Weapon system	P-18 Radar/ Indicator/ GW
4	Technical Applicability/ Broad Purpose	To be used in indicator system of P-18 radar for horizontal sweep formation stage.
5	Technical specifications	As attached
6	Publication Details	TD of P-18 Radar
7	Photograph of equipment	As attached
8	Brief description	To be used in indicator system of P-18 radar for horizontal sweep formation stage.
9	Classification of Equipment-LRU/Testers/Ground Equipment/Role Equipment (Electrical/Electronics/Mechanical/Software based etc.)	Electronics based
10	Previous repair history	03 in last 02 years. Other than core equipment.
11	Criticality (Priority I/II/III)	Critical (priority-I)
12	Requirement: Repair or Indigenization or both	Repair & Indigenisation both
13	Quantity required (one time/annual)	(01 (Prototype)+12)/--
14	Sample Availability	Yes
15	Scale/ Deficiency	02 per Radar/ Nil
16	If deficient- How deficiency is being plugged?	N/A
17	Draft QTS with major testing	
18	SPOC details item/fleet wise	SPE ISC, 7BRD, AF
19	Any other relevant information.	High failure rate.



TECHNICAL SPECIFICATIONS: UNIT-7
(HORIZONTAL SWEEP UNIT)

SI No	Parameter	Value	Tolerance	Remarks
1	Triggerability by pulses of following parameters: Amplitude in V Duration in μ S	8 2	± 2 ± 1	
2	Insensitivity to trigger pulses of following amplitude, V	1		
3	Duration of pulses at terminals W2/7A (G6 OF U-8), W2/5A and test jack G6, μ S	500 to 800		
4	Amplitude of pulses at terminal W2/1A(jack G6 of U-8) and test jack G6, V min	6		
5	Amplitude of pulses at terminal W2/5A, Vmin	6		
6	Sweep origin displacement, mm min	± 15		By X center potmeter control
7	Fine Focus slotted control operation	Must focus the sweep trace		
8	Change in sweep duration on Scale3, %, min	± 10		
09	Change in sweep duration excess on scale 1 & 2, % max	± 20		
10	Sweep rate variation on scales 1 & 3, % min	± 5		
11	Sweep non-linearity % max	± 10		
12	Sweep rate change after a change in rotary transformer voltage, % max	3		
13	Sweep rate control range of X AMPL. Slotted control, %, min	± 5		
14	Unit response to application of cut-off pulses	Sweep trace length should reduce on		

		application of Cut-off pulses at W1/5C		
15	Availability of adjustable negative voltage at terminal W1/9A,V	0-6 to 8.5		
16	Availability of variable –polarity- voltage at W1/4B, V	-7 to +7		
17	Adjustment margin of potentiometers, degrees, min,	20 ⁰		
18	Voltages at test jacks, V:			
	G2	-7 to +7	±2	
	G3	-7 to +7	±2	
	G4	0.5 to 3		
	G5	1 to 3		
	G6, min	10		