GOSSEN LUNA-PRO

GOSSEN LUNA-PRO

Similar models: Lunasix

Bacteries: 2 PX-13

Fig. 1 - top of circuit board

Fig. 2 - bottom of circuit board

ADJUSTMENT LOCATIONS

Low range, low light	,Ac
Low range, high light	8
High range, low light	C
High range, high light	D
Battery test	- E
Hairspring (zero)	F

ADJUSTMENT VALUES

	Light level EV1	Scale reading .	Adjust
		12	200
	EV7	8.40	8
ligh	range		
	EV7	12	C
	EV15	200	TO:

ADJUSTMENT SEQUENCE

- Remove the batteries and adjust the hairspring to zero the needle (adjustment accessible from back of case without disassembly).
- Work back and forth between adjustments A and B to adjust the low range.
- Work back and forth between adjustments C and D to edjust the high range.
- Adjust the battery test to center the needle on the red square.

Scale can also be changed as an adjustment:

A scale - reads higher

B scale - reads lower

DISASSEMBLY HIGHLIGHTS:

Sequence to reach adjustments:

Pry off cemented plate at back of

Remove 4 case screws.

 Separate top section of case from bottom section (wintch for loose insulator washers between top section of case and circuit board).

Sequence to separate meter from lower section of case:

- Remove hemispherical light collector lidetent spring at back of light collector may come loosel.
- Lift out photocell aperture plate.
- Move rocker switch to low range and remove the neutral-density filter plate.
- Remove 2 screws and scale assembly.
- Remove 2 screws holding circuit board.
- Lift circuit board from case.

TROUBLESHOOTING:

Typical battery drain (2.7V supplied): Meter — 0.1 -0.32ma (high range) 30 - 50µa (low range) Battery test — 0.2ma

Behavior without batteries: needle remains at "0" line

Photocell resistance EV 14: 260 ohms Resistance of galvanometer coil: 2.8K



Tips for troubleshooting without disassembly:

- Needle moves properly during battery test, but does not move or moves sluggishly during normal reading – defective photocell or dirty main switch
- Needle does not move or moves sluggishly during both battery test and reading — defective or dirty galvanometer.
- Needle moves properly during normal reading, but does not move during battery test — defective or dirty battery test switch.

FREQUENTLY REPAIRED SECTIONS:

- Defective CdS photocell or dirty galvanometer causing sluggish needie movement.
- Tangled hairspring due to impact.
- Open galvanometer coil causing no needle movement.

OTHER COMMENTS:

Exchange parts available: galvanometer assembly isend in defective assembly, including scale!



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