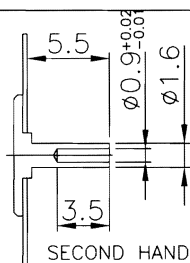
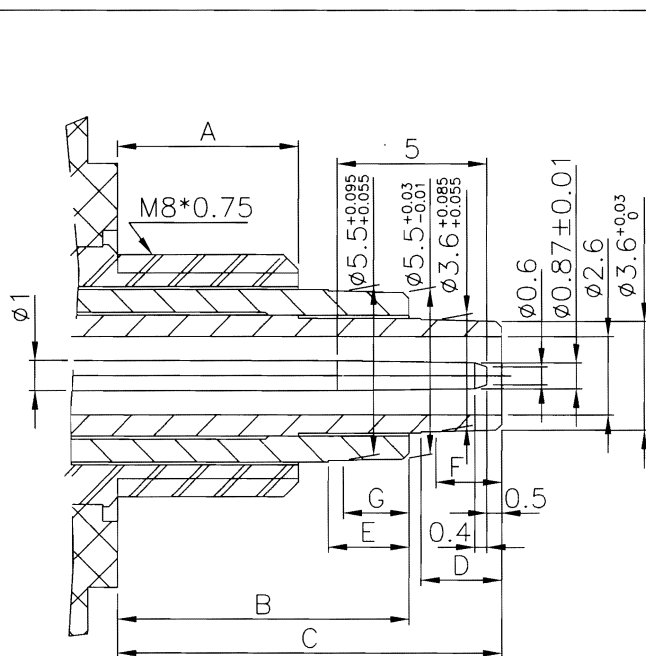
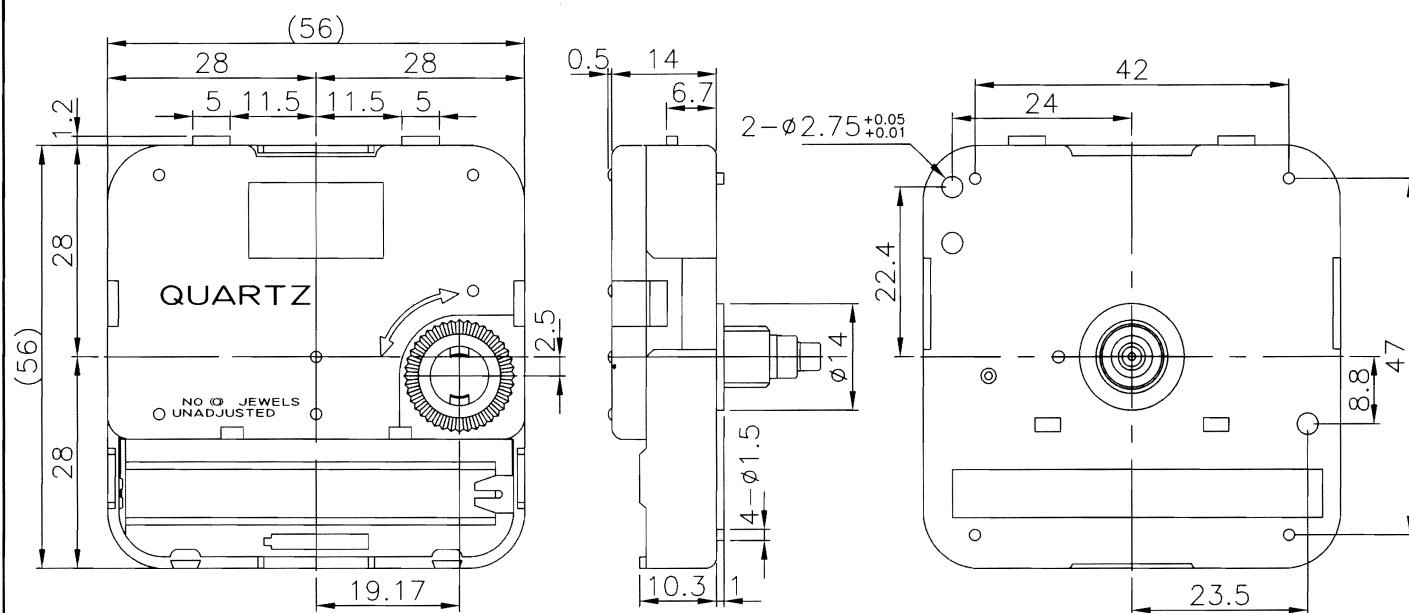
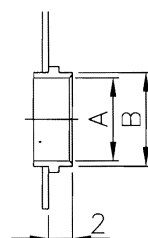


QUARTZ CLOCK MOVEMENT

TS-631.TS-632
TS-633.TS-634
TS-651...



SECOND HAND



	HOURL HAND	MINUTE HAND
A	$\phi 5.5$	$\phi 3.6$
B	$\phi 6.2$	$\phi 4.3$

Caution:

Sharp edges on holes of metal hands should be removed before assembling. Diameters of plastic hand should be made smaller than prescribed one.

ITEM NO	A	B	C	D/E	F/G
TS-631/651	6.1	9.8	12.9	2.7	2.2
TS-632/652	4.1	7.8	10.9	2.7	2.2
TS-633/653	0	4.9	8.0	2.7	2.2
TS-634/654	0	2.2	4.5	2.2	1.6

SPECIFICATIONS

Crystal Oscillator : 32.768KHz
Time Keeping : $\pm 1\text{sec/day}$
at 1.5V, 23°C
Operating Voltage : 1.3V to 1.7V
Operating Temperature : -10°C to 50°C
Driving System : self-start, step-motor drive
Circuit Output Frequency : 8Hz
Torque 'second shaft : $\geq 1.4\text{gf-cm}$ (1.5V)
'minute hand : $\geq 30\text{gf-cm}$ (1.5V)

Rated Voltage : 1.5V
Battery Size : AA size (IEC R6) 1piece
Battery Life : approx 9 month
Average Current Consumption : under 150 uA at 1.5V
Allowed Hand : Second Minute
Length : under 100mm 130mm
Weight : under 1g 3g
Unbalance : under 0.1g-cm 2g-cm