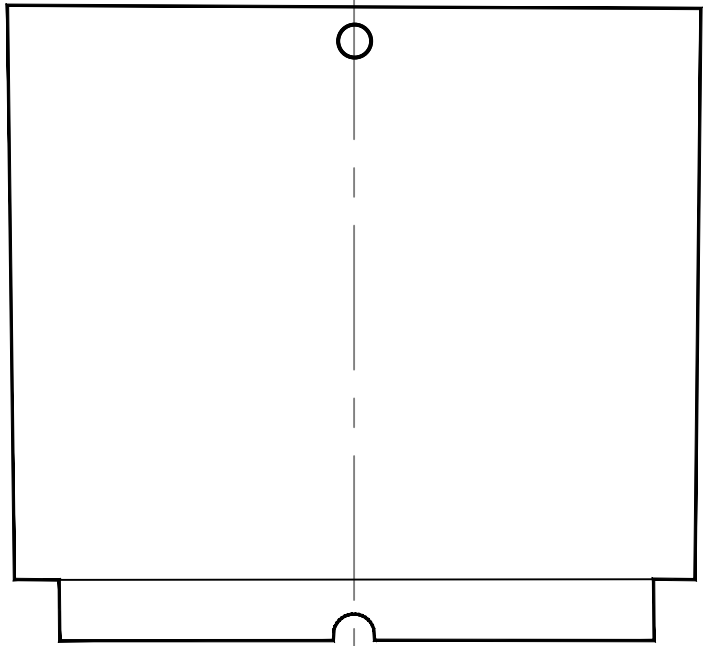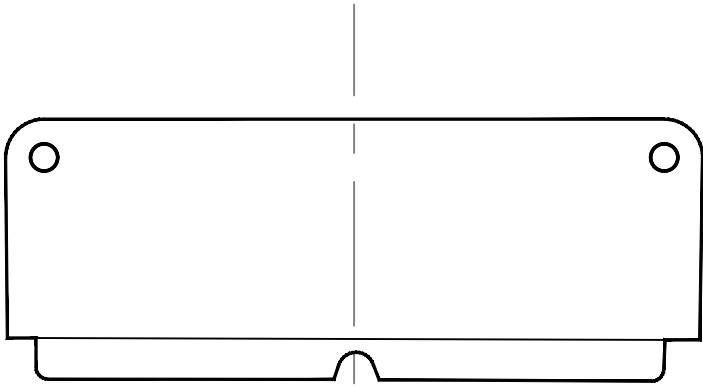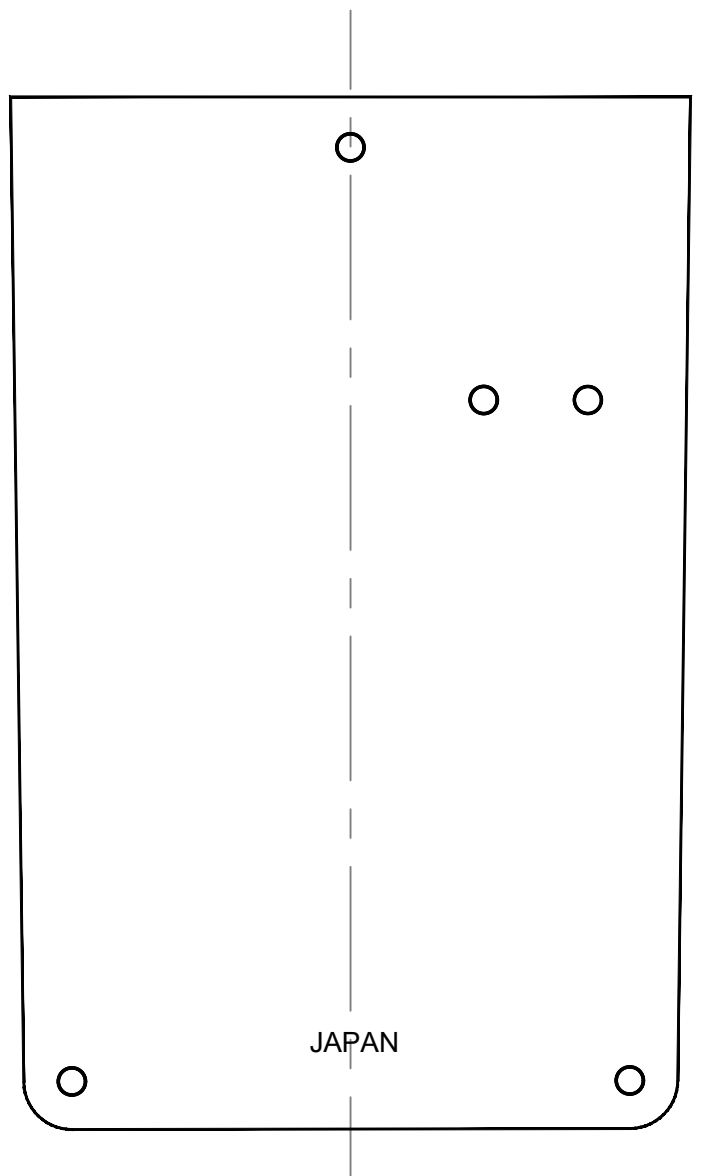AMPLIFIER   INSTRUMENT

UNIWAH

BOTTOM VIEW,
ENCLOSURE

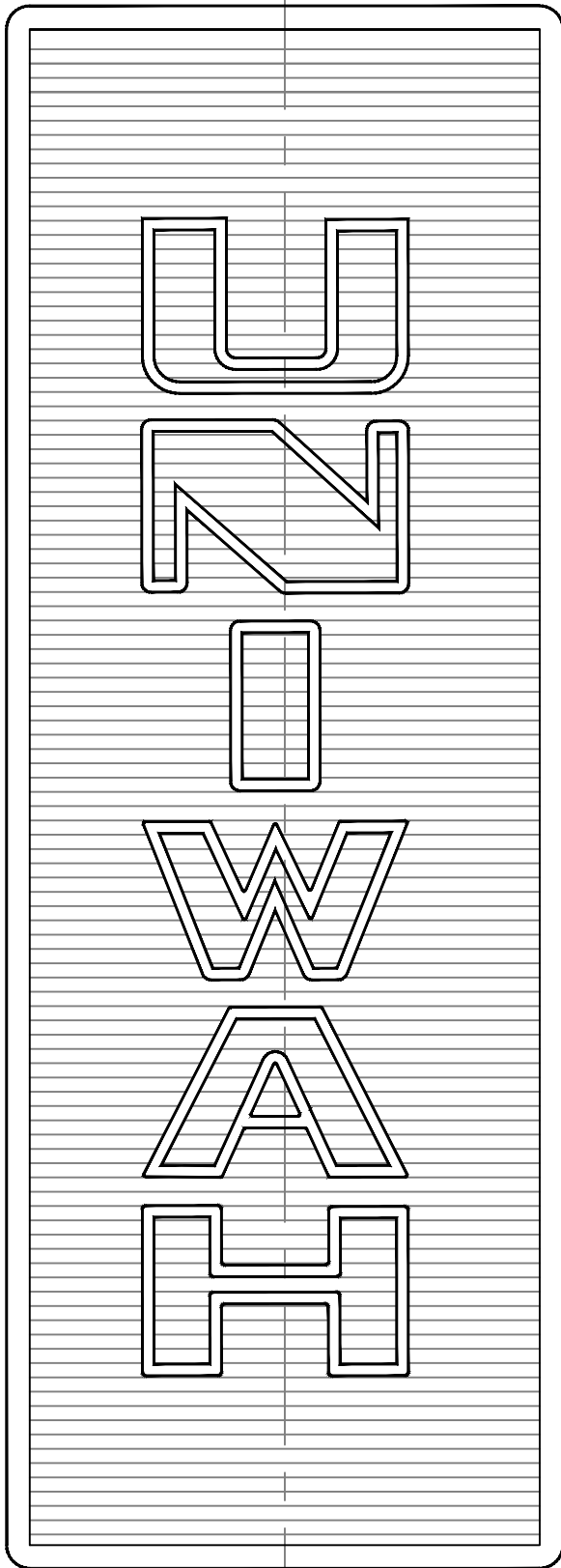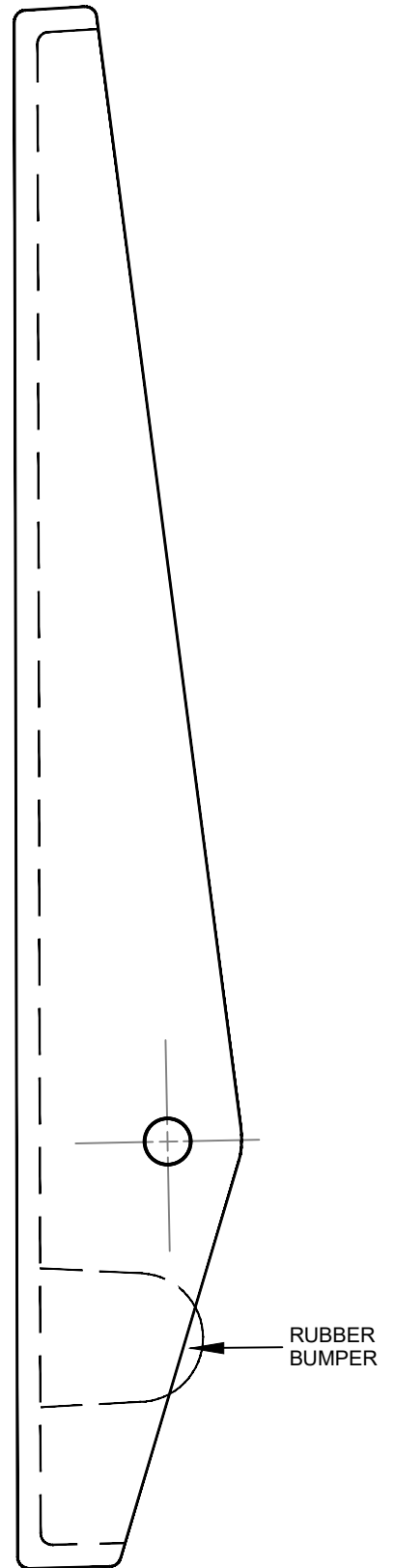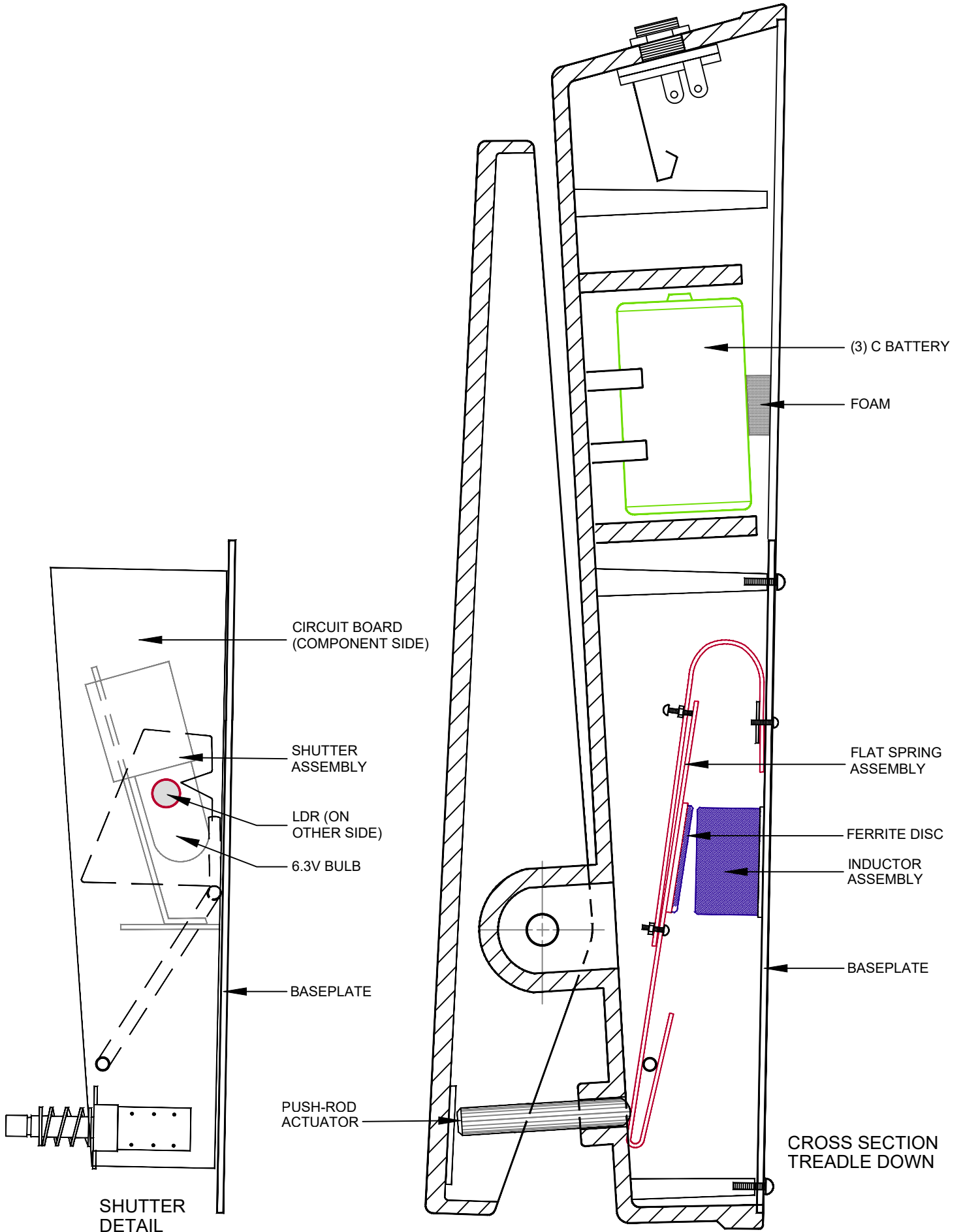INPUT/OUTPUT
JACK COVER

BATTERY
COVER

JAPAN

CIRCUIT
BASEPLATE

TOP VIEW, TREADLE ONLY

SIDE VIEW

RUBBER
BUMPER

CIRCUIT BOARD
(COMPONENT SIDE)

SHUTTER
ASSEMBLY

LDR (ON
OTHER SIDE)

6.3V BULB

BASEPLATE

PUSH-ROD
ACTUATOR

SHUTTER
DETAIL

(3) C BATTERY

FOAM

FLAT SPRING
ASSEMBLY

FERRITE DISC

INDUCTOR
ASSEMBLY

BASEPLATE

CROSS SECTION
TREADLE DOWN

SHUTTER
DETAIL

CROSS SECTION
TREADLE UP

(2) MACHINE SCREWS

UPPER SPRING

MAGNET

ADJUSTMENT SCREWS

FLAT SPRING THICKNESS= 0.02"

LOWER SPRING (SHUTTER CONTROL ARM INTERFACES HERE)

WEAK CERAMIC MAGNET 1.00" DIA. x 0.15" THICK

PLATE W/ (2) SCREWS

APPROX. FULL SIZE SPRING WIDTH= 1.00"

FLAT SPRING ASSEMBLY

COIL

NOTES:

1. INDUCTOR CUP MATERIAL UNKNOWN UNKNOWN. SEEMS TO BE A TYPE OF SLIGHTLY MAGNETIC FERRITE.

2. COIL WINDINGS ARE ON A THIN PLASTIC BOBBIN. PER SCHEMATIC 1400 TURNS OF COPPER WIRE.

3. INDUCTANCE APPEARS TO VARY BETWEEN 100MmH & 1H, DEPENDING ON POSITION OF MAGNET ON FLAT SPRING ASSEMBLY.

4. COIL DC RESISTANCE = 89 OHMS

1.00" DIA.

0.375" DIA.

WALL THICKNESS= 0.125"

0.625"

TOP VIEW

CROSS SECTION

INDUCTOR DETAIL

COMPONENT SIDE

4.5V FROM BATTERIES

OUTPUT

BLK TO BULB

FROM INDUCTOR

LDR IS SILICON SENSORS INC.
MODEL MKY-5C38E

INPUT

UNIWAH 3

1N34A
D1

100
R2

0.03UF
C6

R10
2.2K

C7
0.047UF

C2
220uF

R7
68K

C5
5UF

C4
5UF

R8
10K

R5
330K

R4
220K

R3
150K

LDR

C8
0.22UF

R9
6.8K

C3
0.1UF

Q2
2SC537F

Q1
2SC537F

R1
150K

C1
1UF

R6
2.2K

FOIL SIDE

UNIWAH 3

BLUE TO BULB

FOIL SIDE (ACTUAL SIZE)

UNIWAH 3