

USER MANUAL

OF

**SHARP EDGE
TESTER**



STA-0012

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SHARP EDGE TESTER

MODEL: STA-0012

1. Introduction

The sharp Edge Tester is used to determine whether accessible edges of toys for use children are liable to cause injury to the child.

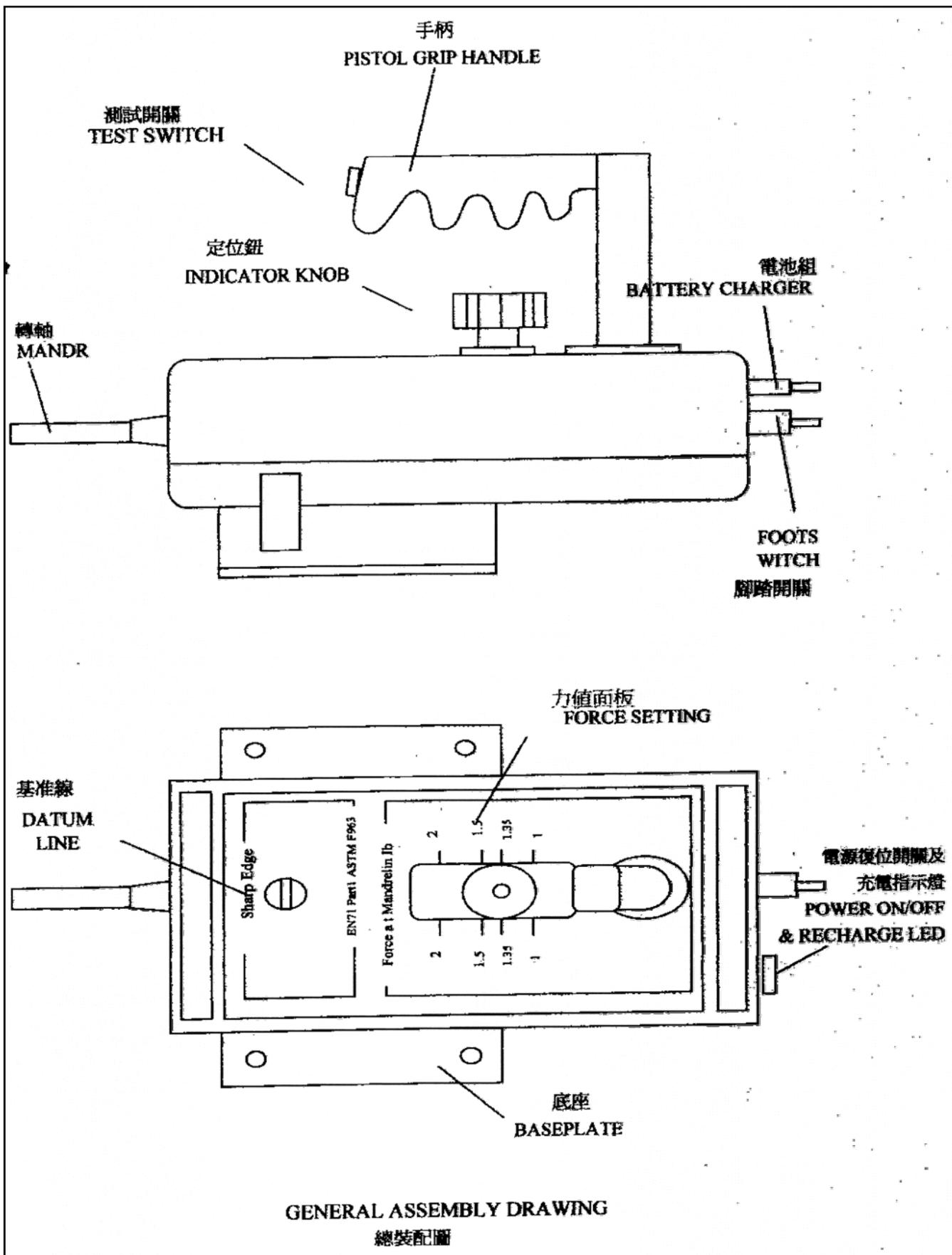
It complies with the requirements of EN71: Part 1:1998 and ASTM F963-03, both relating to the safety of toys with regard to mechanical and physical properties. The instrument must be used in accordance with the requirements specified within the standards.

2. Packing list

The sharp edge tester is supplied with the following standard accessories:-

1. 1x Sharp Edge Tester
2. 1x Base mounting plate
3. 1x Foot Switch
4. 1x user manual
5. 1x PTFE Tape (10m of length)
6. 1x Charging unit with connecting cable

3. General assembly drawing



4. Detailed Operation

Please refer also to the general assembly drawing to assist with the operation of the instrument.

1. The instrument is powered by an internal rechargeable battery pack. When the battery pack can no longer power necessary to rotate the mandrel, under load, once at a constant tangential velocity of 25.4 ± 2 mm/second, a test button or foot or foot switch is depressed and the instrument will not function. Please recharged and the LED will illuminate.
2. To recharge the battery pack, plug the 3 pin charging unit into a suitable 240V Single Phase electrical supply point and the jack plug into the male socket at the rear of the instrument case above the foot switch connection socket.

DO NOT RECHARGE FOR MORE THAN 16HOURS. FAILURE TO OBSERVE THIS INSTRUCTION WILL SIGNIFICANTLY REDUCE THE BATTERY LIFE.
3. The instrument can be used in two basic modes.
 - a) Bench mounted
To operate in this mode, fix the base plate supplied firmly to the front of a suitable worktop. Secure the instrument to the base plate with the two spring catches.
 - b) Single Handed Use
The instrument is held by the pistol grip in one hand, the mandrel is applied to the toy and operated using the button inset into the end of the pistol grip handle.
4. To prepare the instrument for testing set the scale indicator knob/disc to indicate the force at the mandrel (normally 1.35lbs). To adjust the position simply loosen the knob by rotating it anti-clockwise. Slide to required position and tighten up.
5. Wrap a single layer of polytetrafluoroethylene tape around the mandrel. The tape and position of the tape on the mandrel shall be as described in the Standards.
6. Choose mode of use (either 4 i) or ii) and apply the underside of the mandrel to the sharp edge of the toy (as described in the Standards). Press down upon the edge until the datum line on the disc indicator lines up with the line on the faica.
7. Set the power switch to "ON" LED will illuminate and press a test button to cause rotation of the mandrel.
8. Release the mandrel from the edge from mandrel if bench mounted mode is being used.
9. Remove the tape from the mandrel without causing any fuether damage to the tape than that caused by the sharp edge.
10. Examine the tape. A cut in the tape of half inch or greater confirms the edge tested as sharp.
11. Set the power swith to "OFF" and LED will extinguish.

5. Maintenance & Calibration

1. Keep the instrument clean and dry.
2. Do not allow PTFE tape to build up on the mandrel. Clean off after each test prior to applying a new piece of tape.
3. Do not store the instrument with the batteries in a state of discharge.
4. Do not leave the instrument permanently on charge. Charge only for the specified duration of 16 hours.
5. Replace the mandrel if scratches. Nicks or burrs are present.
The mandrel is secured to the motor shaft adaptor with a LEFT HAND THREAD. ROTATE CLOCKWISE TO REMOVE.
6. The force applied by the mandrel and rotational speed should be verified each year.
7. The condition of the mandrel should also be verified each year.

Note:

1. Hold the test switch, check the velocity of the mandrel.
2. If the mandrel can't run a circle, press the power switch and reset it.
3. Annual replacement for the mandrel is recommended in order to ensure its conformity if frequency of use is high.