

Airsoft Nation Technician Certification Program – AEG 1

Test Synopsis:

Completely disassemble and reassemble a Tokyo Marui based M4 / M16 down to the smallest of internal parts and be able to fire the gun adhering to listed QC parameters upon reassembly.

The technician must demonstrate a competent understanding of both the external and internal workings of the Tokyo Marui based M4/M16 platform including, but not limited to, the following topics:

Test Topics:

1. External Components:

- a. Disassemble receiver
- b. Remove stock
- c. Remove handguard, including d-ring and front sight block
- d. Remove motor and grip
- e. Remove complete gearbox and wiring

2. Mechanical / Internal components:

- a. Disassemble gearbox shell (no parts can fly out, must show full control of process)
- b. Remove gear set
- c. Remove spring and spring guide
- d. Remove cylinder assembly and tappet plate
- e. Disassemble cylinder assembly (piston, air nozzle, cylinder head including orings)
- f. Uninstall trigger switch, anti-reversal latch, selector plate, etc.

3. Hopup & Inner Barrel assembly:

- a. Disassemble hopup unit down to the smallest pieces
- b. Change the bucking
- c. Inspect and clean inner barrel

Quality Control Parameters:

All QC tests will be performed with a 9.6v 1600mAh NiMH battery and a precision-grade 0.20g BB

Functionality Check

Basic essential features of the rifle such as the selector switch, magazine release, and retractable stock, as well as non-essential features such as the charging handle, and forward assist must all function properly.

External Alignment

The outer barrel, handguard, and sights must align with the receiver.

Safety Check

The gun cannot fire when set to SAFE.

Full Auto 300rds

The gun must fire 300 rounds on Full Auto consecutively without issue.

Semi-Auto 50rds

The gun must fire 50 rounds on Semi -Auto consecutively without issue.

Hopup

Adjust the hopup dial gradually from lowest to highest settings; in no less than 3 separate intervals. Fire a minimum of 2 test shots at each interval to ensure the hopup system is functioning properly.

Accuracy

Using the provided standardized target the gun must be able to achieve a hit within the 2nd ring at 15 yards for no less than 10 shots fired on Semi-Auto.

Final Check

A final check will be performed to ensure all basic functions work after firing tests have been completed. Special attention will be paid to fit and finish, fire mode selector functionality, and overall appearance. At no point in time can a piece of the test gun be damaged or broken.