

## Warning

All audiences should read the proclamation of using this maintenance instruction manual carefully before view the content of maintenance instruction manual.

APS Paintball Limited



### Proclamation of using this maintenance instruction manual

- ▶ The term "APS" or "us" or "we" refers to APS Paintball Limited. The term "you" refers to the user of this maintenance instruction manual (known as "manual").
- ▶ The manual is a reference and information, which is made for person who has been trained and authorized to handle and repair Real Action Marker (known as "RAM") or its related accessories. For if person who is not trained and authorized to handle and repair RAM or its related accessories, please do not attempt to repair RAM or its related accessories yourself. We do not bear any indemnification, liability and responsibility for the damage or defective of the RAM or serious injury resulted from repairing the RAM without trained and authorization.

### Safety precaution

- ▶ For everyone authorized person who attempt to repair our RAM and its related accessories, please make sure any protective equipments (especially mask or goggle) at all time while repairing.
- ▶ Unless using cylinder tests the pressure of the RAM, the cylinder should not be installed onto the Marker while repairing. It decreases the risk and aim to be safe.



## P226-Series

Maintenance Procedure

RAM 226



## Disassembling RAM 226

Un-install the magazine



Un-install the cylinder cover



Remove the hand grip fixing catch



Pick up the hand grip fixing catch



Pull back the slide, turn it upside down and remove the slide screws



Pick up the slide



P226 after disassembling the slide



Remove the Re-cock cover



Remove the hand grip (left side) locking screw



P226 after Removal the hand grip (left side)



Remove the decock button screw and spring



Remove the decock button sheet





Take out the trigger sheet



Remove the trigger pull bar



Remove the spring



Take out the hammer unit



## Repair the Launching Compartment

Pressure unit – In case if the pressure is not stable while shooting. (i.e. some shots are too strong or too weak.)

Remove the end cap



Remove the pressure adjust screw



Remove the pressure adjust screw



Take out the spring



Screw out the valve cushion cover



Take out the valve cushion cover and the pressure adjust spring



Take out the sealing pin



Take out the sealing pin



Pull out the pressure adjust thimble using the specific screw tool



After re-assembled the Marker, if hearing gas leaking from this pressure unit it is necessary to change new pairs of O-ring on the thimble.



Remove the valve screw



Remove the valve screw



Take out the valve



### Change the O-ring and the valve



- ▶ After finish the maintenance of the pressure unit, should check the pressure using pressure gauge. The needle of the pressure gauge should be pointed at 4.5MPa. When pressure gauge shows that the needle is not keeping at the proper position and still rising, use a specific hex key to adjust the pressure higher (clockwise) or lower (anti-clockwise).
- ▶ Install the pressure gauge onto the gas chamber unit. Disassemble all parts in the launching unit except the O-ring stayed behind at the gas chamber.

### Install the adaptor on the pressure gauge



### Make sure the O-ring (pointed by arrow) connecting with the pressure gauge



### Install the pressure gauge and make sure the switch of the pressure gauge is locked. Then install the cylinder.



### Adjust the pressure



Until it is 4.5MPa approximately.



## Repair the Launching Compartment

Gas chamber - In case hearing gas leaking sound from the steel windpipe

Remove the end cap



Take out the steel windpipe



Remove other launching unit's parts and change new O-ring and Valve inside the copper (pointed by arrows)



## Disassembling the barrel unit

Barrel unit inside the slide



Tip off the barrel stand



Pull out the barrel unit



Disassemble the barrel parts



## Assembling RAM 226

Assemble barrel parts

1. Assemble the barrel and the spring

2. Assemble the barrel guide rod and spring



Complete assembling the barrel unit



Push the barrel unit forward



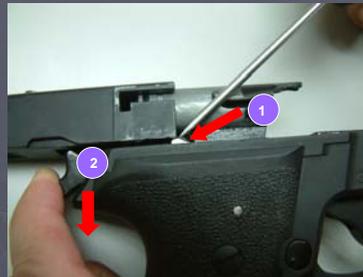
Use a plastic stuff to hold the barrel unit at the front



Put back the recock cover



Press down the launching bar plate (1) and the hammer (2), Push the recock cover forward



While the recock cover is pushed forward, the wings on both sides of the launching rod should be slipped into the guide of recock cover.



Assemble the slide unit (with barrel unit) onto the pistol hand grip unit



Hook up the front of the slide unit first



Put the rear of the slide unit (with barrel unit) onto the pistol hand grip unit and then pick up the plastic stuff



After picking up the plastic stuff, the barrel unit should return back to a proper position.



Install the hand grip fixing catch



Install the slide screws



### Complete assembling procedures



### End of Maintenance Procedures

- ▶ Assemble all parts and units
- ▶ Apply few drops of lubricant oil into the marker core if necessary.

## General Maintenance on RAM

(Apply to P/X-series and RAM226)

### Gas is leaking

- ▶ From muzzle velocity unit - If Paintball Marker cannot shoot projectiles consistently (means some shots are too strong or too weak), it is because the pressure in the muzzle velocity unit is not steady. Check the pressure using pressure gauge. The needle of the pressure gauge should be pointed at the following proper position: 3.6 for P/X-series and 4.5 for RAM226. When pressure gauge shows that the needle is not keeping at the proper position and still rising, use a specific hex key to adjust the pressure higher or lower.
- ▶ From gas chamber (Launching Compartment) - After releasing CO2 into the Marker Core, gas is leaking from the Launching compartment or Barrel. Try to cock the Paintball Marker and press the trigger in the safe condition. It maybe improved. Otherwise, change the part 3108 (P/X-series) or P2104 (RAM226).

### Gas is leaking (Con')

- ▶ From the joint of installing cylinder – Gas leaking is happened when 12g Co2 disposable has been installed in the X-series Paintball Marker or RAM226. If hearing the gas leaking sound, it means O-rings do not seal well. Change the part 3725B (X-series) or P2127 (RAM226) if necessary.

### Magazine falls out

- ▶ If the magazine is falling out without pressing the Magazine release catch when firing, possibly the magazine spring is depreciated. Change the part 3509 (P/X-series) or P2503 (RAM226) if necessary.

### Shot does not go straight

- ▶ Check the barrel if there is oily (too smoothed) or not cleaned; or the fixing screw of the barrel is loose. Change the screw if necessary and tighten it. And clean the barrel.

## End of the maintenance instruction manual

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