

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.



P/X-series

Maintenance Procedures

30X Series



P/X-series RAM Disassembling

Un-install the magazine and Cylinder cover



Remove the rear sight and remove the screw



Pull the slide backward and lift it up



30X after disassembling the slide



Remove the Re-cock cover



Remove the trigger locking pin



Remove the Launching Compartment Locking Screw



Remove 3 screws (on left and right)



Lift up the barrel adaptor by tool



Take out the Launching Compartment



After disassembling the barrel adaptor unit and Launching compartment unit (Separate from the hand grip frame)



Separate the barrel adaptor unit and Launching compartment unit



Take out the Launching Rod



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 (pointed by arrows)



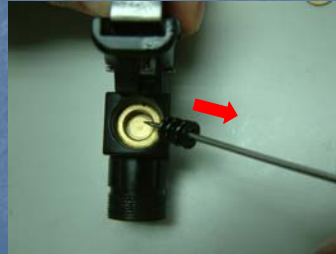
Repair the Launching Compartment

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

Remove the pressure adjust screw



Take out the spring



Pull out the pressure adjust thimble using the specific screw tool



Screw out the valve cushion cover



Take out the valve cushion cover



Take out the pressure adjust spring



Take out the sealing pin



Take out the Valve and O-ring and change new O-ring and Valve



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.



- 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 3.6MPa. 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 3.6MPa approximately.



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

For any questions, please contact:

APS-USA LLC

Tel: (1) 720 747 7782

Fax: (1) 720 747 7784

APS Paintball Limited

Tel: (852) 2409 4466

Fax: (852) 2409 9632

E-mail: aps@apsram.com

Website: www.apsram.com