# SECTION 1

## Welcome to Warsensor

- package contents
- pre use inspection
- required tools and materials for proper maintenance


Welcome to Warsensor – The Scenario Paintball Experts. The Warsensor line of scenario paintball markers are designed to extremely high quality standards because we realize that only the best will do. Our markers all undergo extensive testing, prototyping and are constantly improved based on customer feedback. Why? Simply because Warsensor wants to bring you the Newest Innovations in Tactical Paintball Markers

### PACKAGE CONTENTS

Your package should contain the following items:

- Warsensor WS-66 Tactical Paintball Marker
- Bottom Line Air adapter-kit
- Angled Elbow Paintball Hopper Attachment
- Toolkit with Hex Wrenches and Stock Wrench
- Parts Kit with Spare Springs, O-rings and Cupseal/Valve Stem

Please inspect your package contents to ensure all the listed items are included.

Please report any missing items to your authorized dealer where the marker was purchased.

**Always exercise caution when handling a paintball marker.**
**Remember this is not a toy. Misuse of this product can cause physical harm.**
**Protective eyewear – made specifically for paintball should always be used when operating the marker.**
**Adult supervision should be exercised when minors are operating the marker.**

### PRE USE INSPECTION

Before operating your new WS-66 please read the manual completely and perform a pre-use inspection of the marker. Review the included parts diagram to familiarize yourself with all the components which make up your WS-66 and how they are all assembled together.

Using the supplied tools, ensure the following screws and pins are properly secured.

- trigger frame screws (part 65)
- front site retainer (part 32)
- front sight sling loop screw (part 34)
- rear sight ring lugs ((part 40)
- carry handle screws (part 38)
- feed neck screws (part 25)
- stock retainer ring (part 67)

Before firing the marker please review the section on lubrication of the internals. This step should be performed prior to firing the marker to avoid damage to o-rings, cup seals and striker.

**NOTE**: Remove the stock cover by pulling on the handle (part 70) . Ensure that the lug in the stock pipe is tight (there is only 1 lug – found in the raised rectangular area) – it should be tight to avoid stock spinning loose once installed.

### REQUIRED ITEMS AND TOOLS FOR PROPER MAINTENANCE

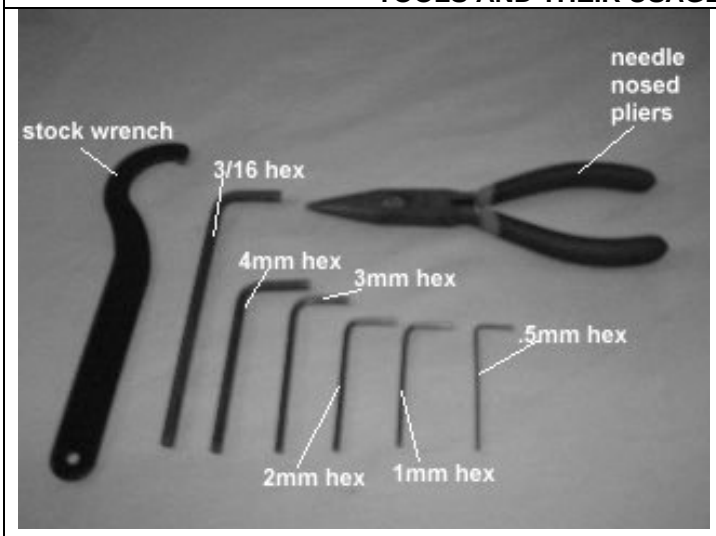
The following is a list of the tools and materials required for performing proper maintenance on your WS-66

- the Warsensor supplied toolkit (hex wrenches, and stock tool)
- a flat and Philips screwdriver
- silicon or telflon grease, or 3-in- 1 gun oil (paintball marker lube)
- some blue locktight
- full bottle of CO2 or HPA
- remote line (unless using the bottom line adapter)
- clean rags
- spare o-rings (in the event these may be required)

**NOTE**: Do not cock and fire the marker prior to performing initial lubrication of internal bolt and striker o-rings. Some dealers perform this task for you prior to delivery as an added service. However, the marker is shipped w/o internals lubed.

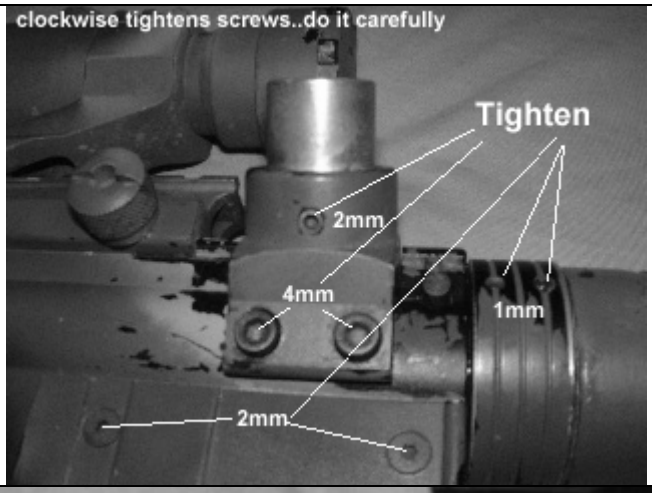
**WARNING: Use .68 caliber paintballs only. Never reuse ammunition. Use of any other ammunition can cause injury to you and/or others, or damage to the paintball marker. Do not remove or replace the POWER FEED PORT.**

## TOOLS AND THEIR USAGE FOR WS66 MAINTENANCE




- The stock wrench is used to tighten and loosen the stock retainer ring at the rear of the WS-66 Tactical Marker.
- The 3/16 hex wrench is used to adjust the velocity screw at the rear bottom section of the marker receiver
- The 4mm hex wrench is used to tighten and loosen the powerfeed retainer screws
- The 3mm hex wrench is used to tighten and loosen the screws holding the trigger frame to the receiver, the screws used to adjust the pressure on the rubber ball detent plate, the barrel wobble-lock screw and the screws for the carry handle lugs and the front sling loop.
- The 2mm hex wrench is used to tighten and loosen the screws holding the magazine to the receiver
- The 1mm hex wrench is used to tighten and loosen the lugs for the front site bayonet post, the lugs on the magazine endcap, the rotation limiter lug on the rear stock, the rear handguard rings and the cocking mechanism cover plate
- The .5mm hex wrench is used to loosen and tighten the lug retaining the barrel flash-break muzzle
- Additional tools such as the pliers and a Philips or flat screwdriver are advisable

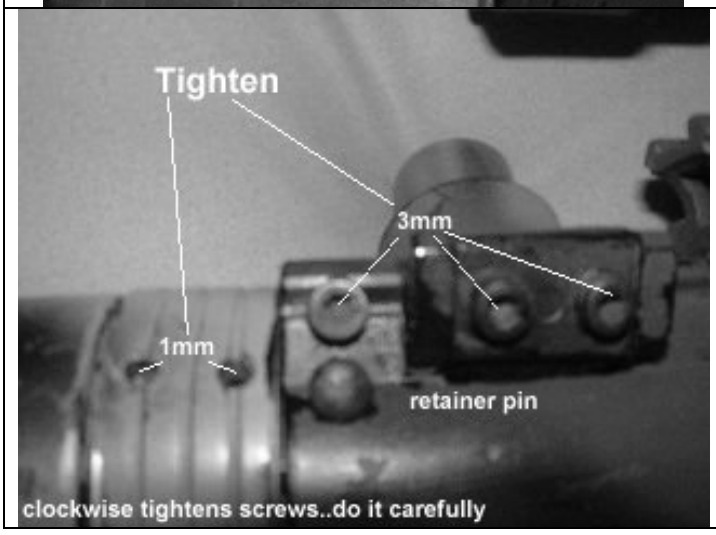
## SCREWS TO TIGHTEN DURING PRE-USAGE INSPECTION/PREPARATION




On the right hand side of the receiver, tighten (or check to ensure they are tight), the following screws

1. the screw holding the copper hopper powerfeed neck
2. the two screws holding the powerfeed to the receiver (these should have washers on them to avoid the screw from protruding too far into the receiver and jamming or scratching the bolt)
3. the two lugs retaining the hand guard ring (tighten these carefully and not too much – you do not want to dent the barrel wall (rear lug) or crack the handguard (front lug)
4. the two screws holding the right side of the magazine housing onto the receiver

Flip the marker over to its LEFT side



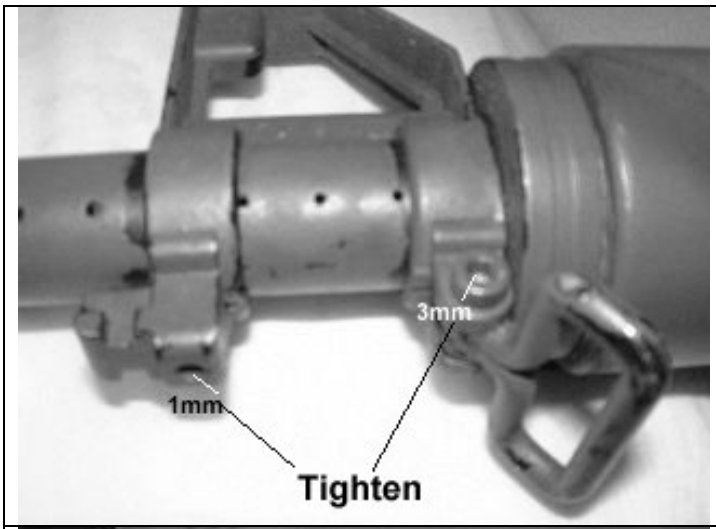

Tighten and/or check the retainer screw above the barrel retainer pin ONLY if the barrel feels wobbly. This screw should be tightened once the barrel and retainer pin are inserted to ensure proper alignment.

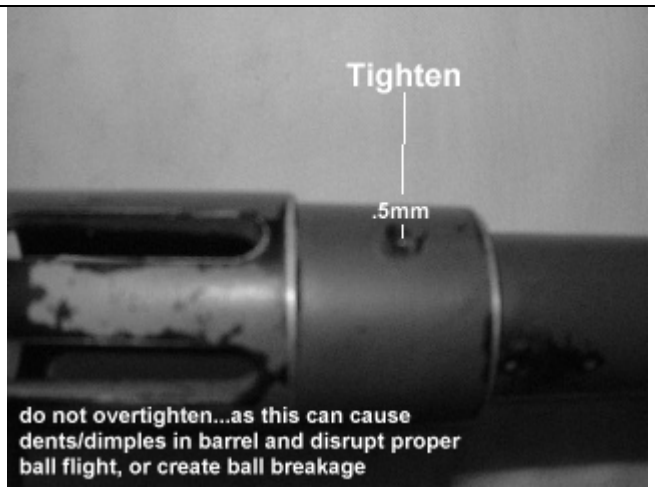
ONLY check the screws on the detent plate (the two screws holding metal plate on rubber pad) DO NOT TIGHTEN as this squeezes the ball detent out of form and can cause problems with ball breakage due to misalignment –just check to ensure they are not LOOSE!

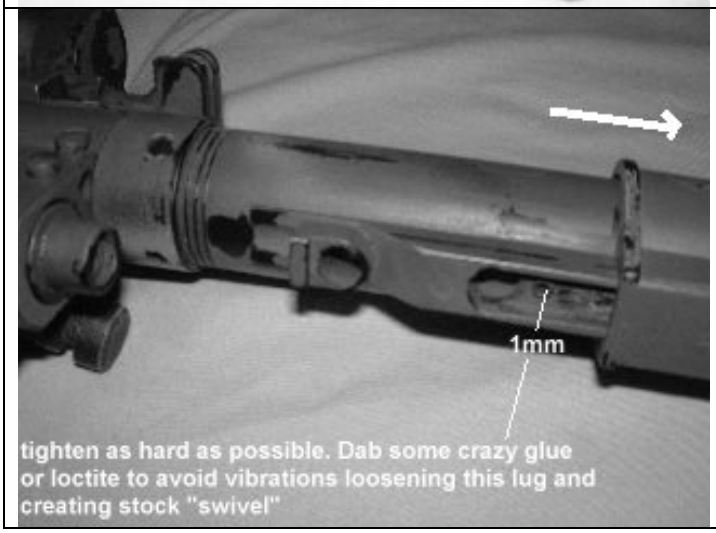
Tighten the handguard retainer lugs as required to ensure the handguards are secure and properly aligned.

NOT SHOWN: using the 2mm hex wrench tighten the two screws on the magazine housing just like was done on the opposite side of the receiver

NEXT…..tightening the front handguard ring to avoid “swivel” and the muzzle break.


3mm
1mm
Tighten


Tighten
.5mm
do not overtighten...as this can cause
dents/dimples in barrel and disrupt proper
ball flight, or create ball breakage


1mm
tighten as hard as possible. Dab some crazy glue
or loctite to avoid vibrations loosening this lug and
creating stock "swivel"


hook the stock wrench tip into retainer ring
apply pressure
lock down or loosen as needed