



STEP BY STEP GUIDE

ANGEL™ 1

⚠ WARNING ADHERE STRICTLY TO THESE AND ALL OTHER SAFETY INSTRUCTIONS AND GUIDELINES

- The ANGEL is not a toy.
- Careless or improper use, including failure to follow instructions and warnings within this Operator Manual and attached to the ANGEL could cause death or serious injury.
- Do not remove or deface any warnings attached to the ANGEL.
- Paintball industry standard eye/face/ear and head protection designed specifically to stop paintballs and meeting ASTM standard F1776 (USA) or CE standard (Europe) must be worn by user and any person within range.
- Must be at least 18 years of age to purchase the ANGEL.
- Persons under 18 years of age must have adult supervision when using or handling the ANGEL.
- Observe all local and national laws, regulations and guidelines.
- Use only on professional paintball fields where codes of safety are strictly enforced.
- Use 0.68 calibre paintballs only.
- Keep the ANGEL switched off until ready to shoot.
- Treat every Angel as if it is loaded.
- Never point the ANGEL at anything you do not intend to shoot.
- Do not shoot at persons at close range.
- Do not shoot at fragile objects such as windows.
- Always measure your Angels velocity before playing paintball, using a suitable chronograph.
- Never shoot at velocities in excess of 300 feet (92 meters) per second, or at velocities greater than local or national laws allow.
- Do not fire the ANGEL with the breech open or without the bolt in the breech, as high pressure gas will be emitted.
- Use compressed air/nitrogen gas only. Do not use CO2.
- Do not exceed 850 psi (58 bar) input pressure.
- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the ANGEL.
- Do not fire the ANGEL with the breech release knob in the unlocked position.
- Never look into the barrel or breech area of the ANGEL whilst the Angel is switched on and able to fire.
- Never put your finger or any foreign objects into the breech or paintball feed tube of the ANGEL.
- Never allow pressurised gas to come into contact with any part of your body.
- Always switch off the ANGEL when not in use.
- Always fit a barrel blocking device to your ANGEL when not in use on the field of play.
- Always remove all paintballs from the ANGEL when not in use on the field of play.
- Always remove the first stage regulator and relieve all residual gas pressure from the ANGEL before disassembly.
- The ANGEL can hold a small residual charge of gas, typically 2 shots, with the first stage regulator removed. Always discharge the Angel in a safe direction to relieve this residual gas pressure.
- Always remove first stage regulator and all residual gas pressure from the ANGEL for transport and storage.
- Always follow warnings and guidelines given with your first stage regulator for safe transport and storage.
- Always store the ANGEL in a secure place.
- **THIS OPERATOR'S MANUAL MUST ALWAYS ACCOMPANY THE PRODUCT IN THE EVENT OF RESALE OR NEW OWNERSHIP.**
- **SHOULD YOU BE UNSURE AT ANY STAGE YOU MUST SEEK EXPERT ADVICE.**

ADB replacement**ASA removal****Battery removal****Bolt removal****Exhaust valve stem removal****Exhaust valve guide removal****Eye cover removal****Eye ribbon removal****LPR pressure test****LPR adjustment****LPR removal****Mini-reg pressure test****Mini-reg removal****Ram removal****Solenoid removal****Trigger removal****Trigger adjustment****Velocity adjustment**

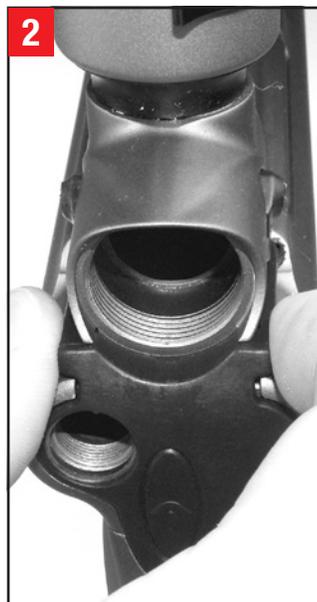
ANGEL™ 1

ADB replacement (3 piece eye cover strap)

⚠ WARNING

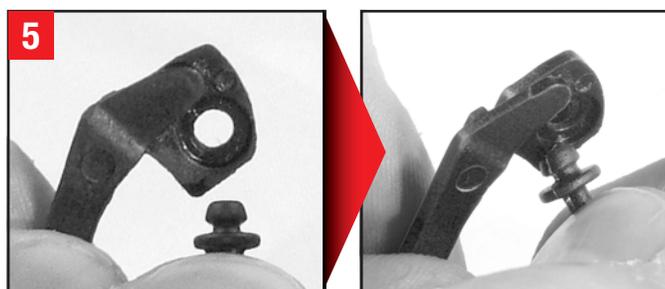
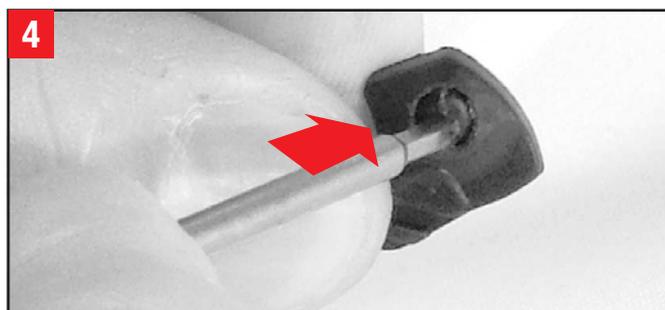
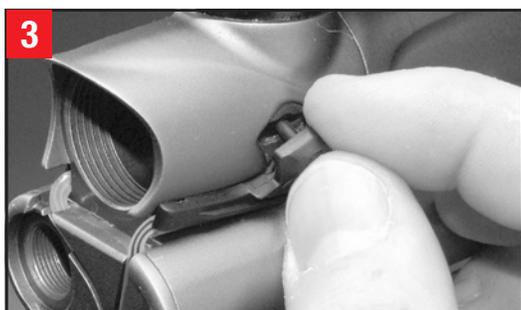
ADHERE STRICTLY TO THESE AND ALL OTHER SAFETY INSTRUCTIONS AND GUIDELINES

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- Ensure the hopper is removed from the ANGEL.
- Ensure that there are no paintballs in the ANGEL.
- Paintball industry standard eye/face/ear and head protection designed specifically to stop paintballs and meeting ASTM standard F1776 (USA) or CE standard (Europe) must be worn by user and any person within range.
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- 1 Remove the volume chamber maintenance plug with a 4mm Allen wrench.
- 2 Slide the front section of the eye cover forward and remove.
- 3 Carefully remove the eye cover arms on either side of the Angel1.
- 4 Using a 2mm Allen wrench (or similar) push out the ADB finger to be replaced.
- 5 Take a new ADB finger and insert the grommet into the retaining hole of the eye cover arm.

Repeat this process for the other side.



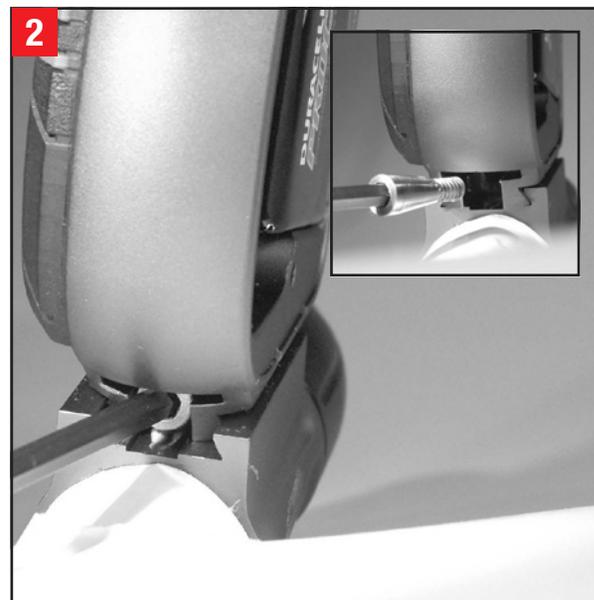
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ASA Removal

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- Paintball industry standard eye/face/ear and head protection designed specifically to stop paintballs and meeting ASTM standard F1776 (USA) or CE standard (Europe) must be worn by user and any person within range.
- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the ANGEL.
- Use compressed air/nitrogen gas only DO NOT USE CO2.
- Only use a paintball regulator that has been designed for air or nitrogen gas.
- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
- The Macro Line hose must be cut back cleanly and square prior to attachment or re-attachment to ensure secure fitment.
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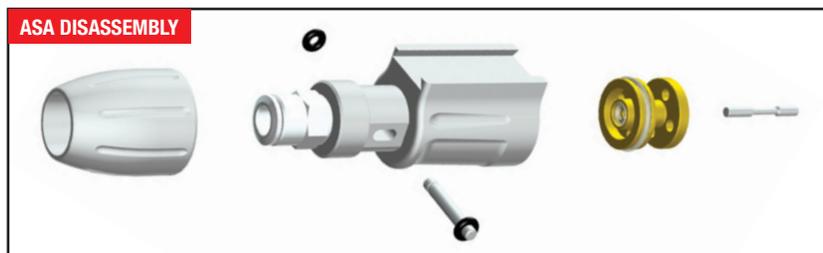
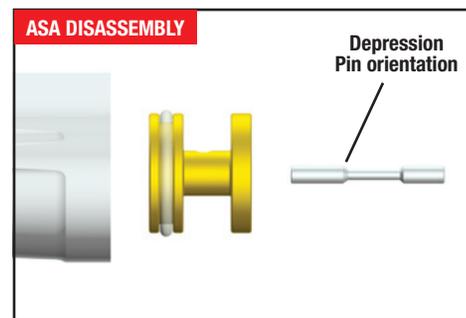
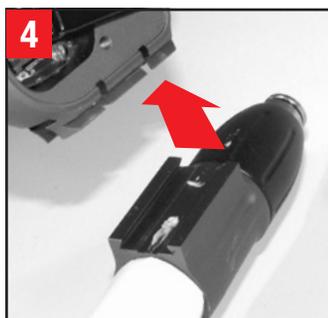


1 Using a 3mm Allen wrench remove the screw at the front of the ASA.

2 Using a 3mm Allen wrench remove the screw at the rear of the ASA.

3+4 Slide the Angel gripframe forward and clear of the ASA.

When disassembling the ASA note the orientation of the 'depression pin'



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Battery Removal

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1 Remove the right hand grip cheek by removing the **3** screws using a suitable 2mm Allen wrench.

2 Using a blunt pick or the 2mm Allen wrench, carefully prise the battery clear of its terminals.

3 Remove the battery.

Observe the battery polarity as marked on the battery housing terminal and on the battery.

Always use a good quality fresh battery.



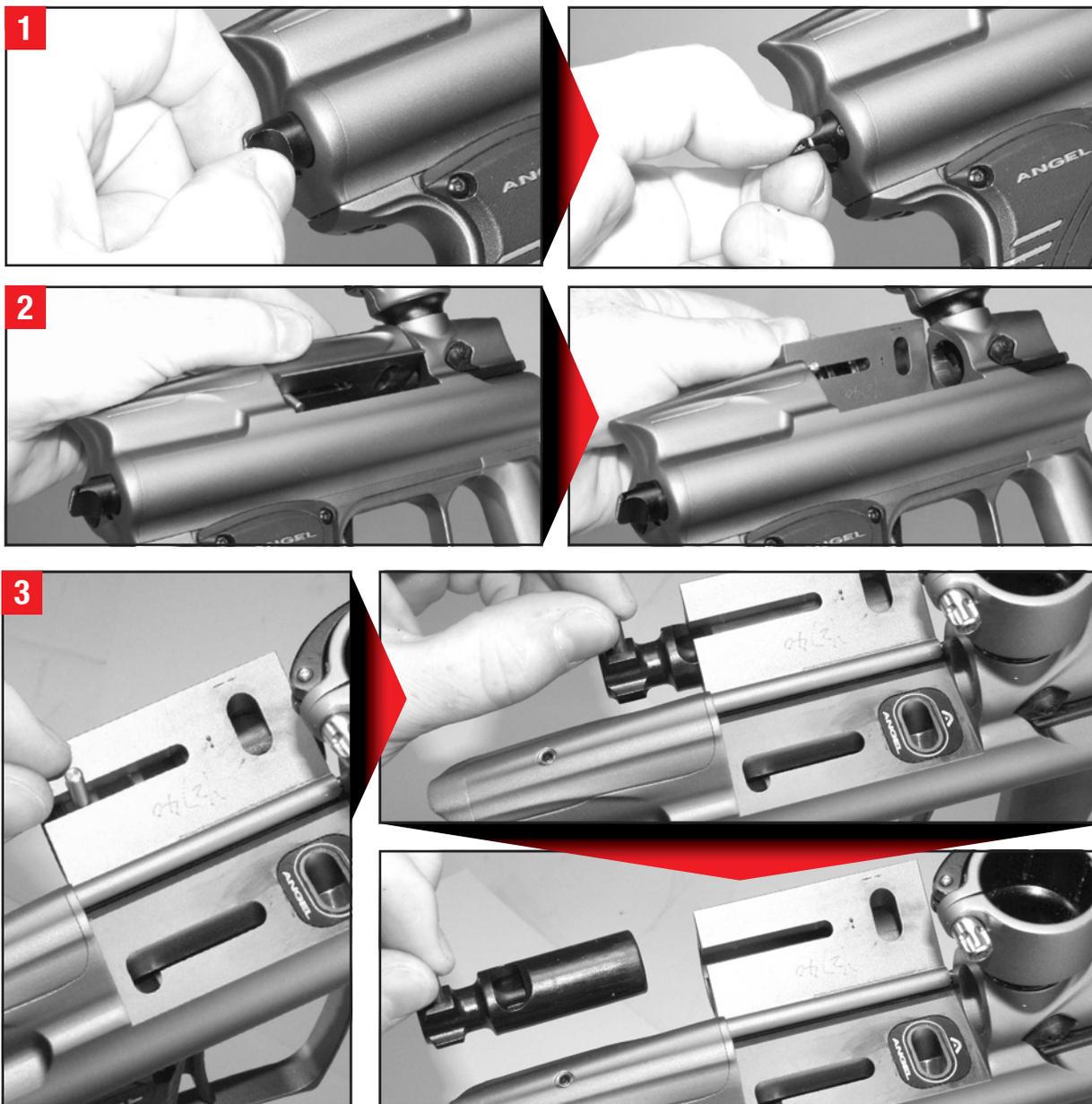
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Bolt Removal

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- Ensure the hopper is removed from the ANGEL.
- Ensure that there are no paintballs in the ANGEL.
- Paintball industry standard eye/face/ear and head protection designed specifically to stop paintballs and meeting ASTM standard F1776 (USA) or CE standard (Europe) must be worn by user and any person within range.
- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the ANGEL.
- Use compressed air/nitrogen gas only DO NOT USE CO2.
- Only use a paintball regulator that has been designed for air or nitrogen gas.
- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
- The Macro Line hose must be cut back cleanly and square prior to attachment or re-attachment to ensure secure fitment.
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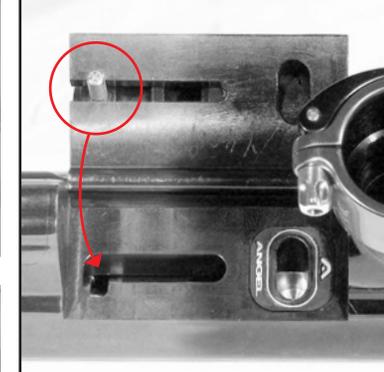
1 Turn the breech release knob clockwise about a quarter of a turn.

2 Lift and rotate the breech block as illustrated.

Note: If the breech will not open it may be the case that the bolt is in the forward position. To check this look down the feed tube. If you can see the bolt, the breech will not open. Push the bolt back in to the marker as far as it will go - the breech should now open.

3 Using the bolt pin slide the bolt from the breech.

Note: To replace the bolt reverse these instructions. Note that the bolt pin must locate in the correct place to enable the breech to close. See below.



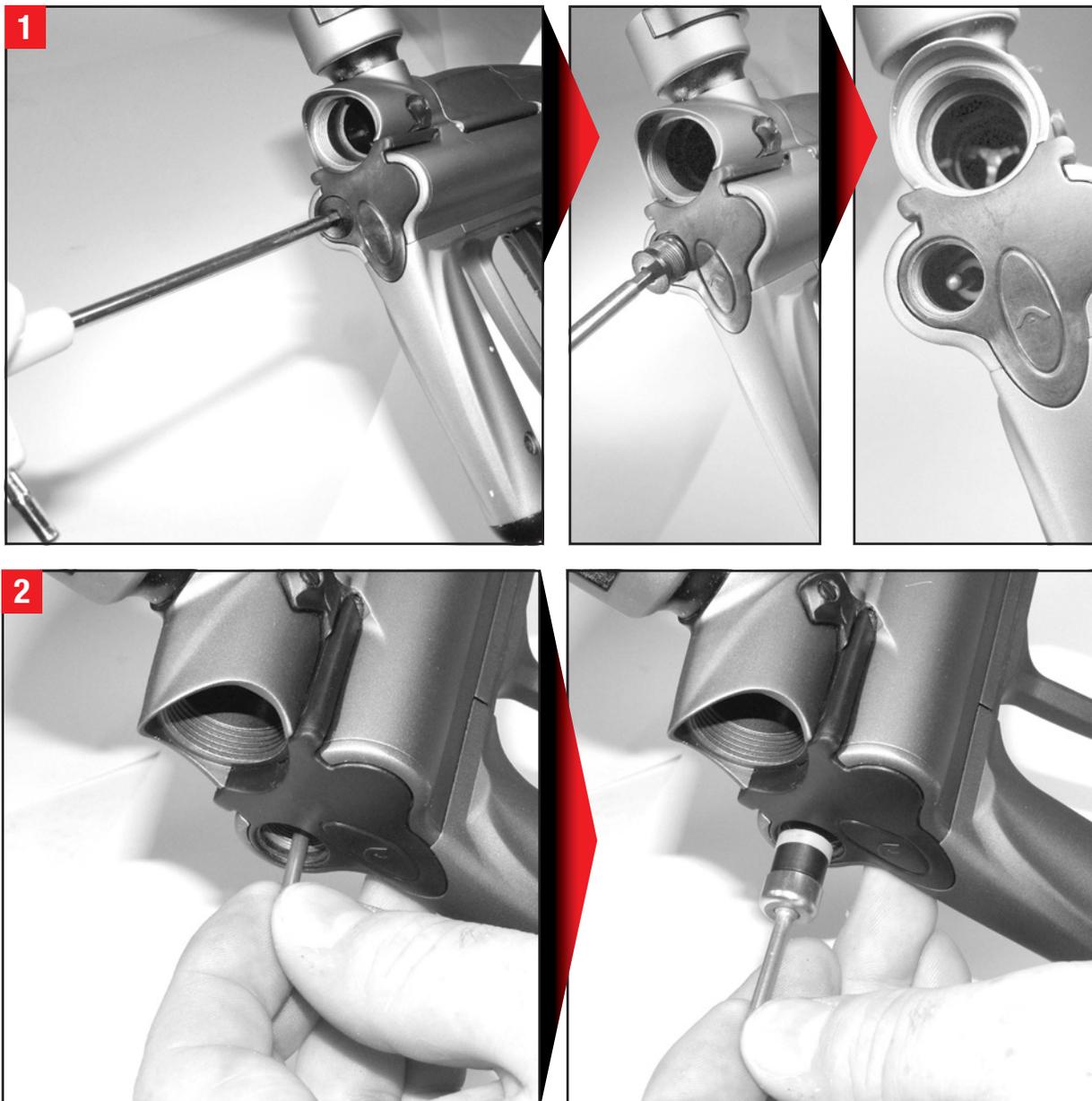
ANGEL™ 1

Exhaust valve stem removal

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- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the ANGEL.
- Use compressed air/nitrogen gas only DO NOT USE CO2.
- Only use a paintball regulator that has been designed for air or nitrogen gas.
- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
- The Macro Line hose must be cut back cleanly and square prior to attachment or re-attachment to ensure secure fitment.
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- 1** Remove the volume chamber maintenance plug using a 4mm Allen wrench.
- 2** Tilt the marker forward to enable the exhaust valve stem to slide out.

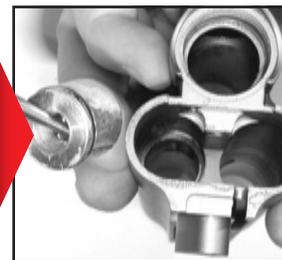
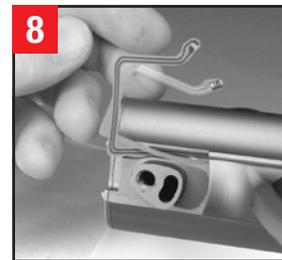
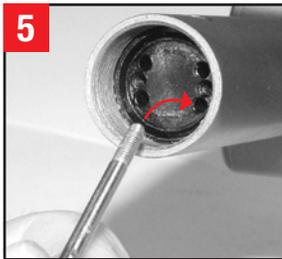
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Exhaust valve guide removal

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- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
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- 1 Remove the volume chamber maintenance plug using a 4mm Allen wrench.
- 2 Slide off the eye cover.
- 3 Remove the velocity adjuster screw located on the foregrip, using a 3mm Allen wrench.
- 4 Remove the foregrip cap, using a 4mm Allen wrench.
- 5 Using the extraction tool provided, remove the mini-reg cartridge.
- 6 Using a 4mm Allen wrench remove the fore-grip retention screw.
- 7 Using the extraction tool provided, extract end plug retaining pin.
- 8 Carefully move eyes out of way to avoid damage.
- 9 Remove the end plug.
- 10 Using a blunt pick, carefully extract the exhaust valve guide as shown.



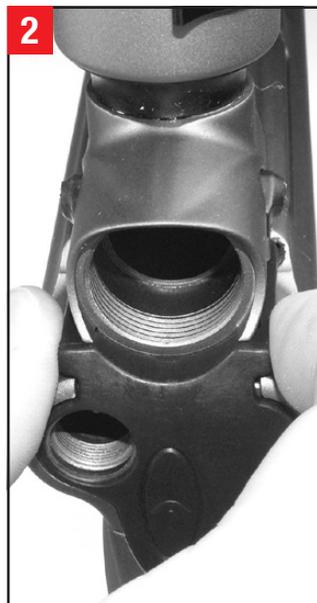
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Eye cover removal

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- Only use a paintball regulator that has been designed for air or nitrogen gas.
- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
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- SHOULD YOU BE UNSURE AT ANY STAGE YOU MUST SEEK EXPERT ADVICE.



- 1** Remove the volume chamber maintenance plug using a 4mm Allen wrench.
- 2** Slide the front section of the eye cover forward and remove.
- 3** Carefully remove the eye cover arms on either side of the Angel1.



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Eye ribbon removal

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- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the ANGEL.
- Use compressed air/nitrogen gas only DO NOT USE CO2.
- Only use a paintball regulator that has been designed for air or nitrogen gas.
- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
- The Macro Line hose must be cut back cleanly and square prior to attachment or re-attachment to ensure secure fitment.
- SHOULD YOU BE UNSURE AT ANY STAGE YOU MUST SEEK EXPERT ADVICE.



- 1 Remove the volume chamber maintenance plug using a 4mm Allen wrench.
- 3 Slide the front section of the eye cover forward and remove.
- 3 Carefully remove the eye cover arms on either side of the Angel1.
- 4 Remove the velocity adjuster screw located on the foregrip, using a 3mm Allen wrench.
- 5 Remove the foregrip cap, using a 4mm Allen wrench.
- 6 Using the extraction tool provided, remove the mini-reg cartridge.
- 7 Using a 4mm Allen wrench remove the fore-grip retention screw.
- 8 Remove the right hand grip cheek by removing the 3 screws using a suitable 2mm Allen wrench.
- 9 Carefully unplug the solenoid from the board.
- 10 Carefully unplug the eye ribbons from the board.
- 11 Remove the two screws retaining the grip frame using a 2mm Allen wrench and remove the grip frame.
- 12 Carefully remove the eye ribbon from the ribbon recess.

To rebuild, reverse procedure.



ANGEL™ 1

LPR pressure test

⚠ WARNING

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- 1 Remove the back plate retaining screw using a 2mm Allen wrench.
 - 2 Remove the LPR chamber plug using a 4mm Allen wrench.
 - 3 Screw in the LPR pressure gauge until it stops turning.
- IMPORTANT NOTE:-**
Follow all safety procedures outlined on **page 2** and all local and federal laws.
- 4 Re-gas and turn on your Angel.
Fire seven shots to stabilize pressure and take your reading

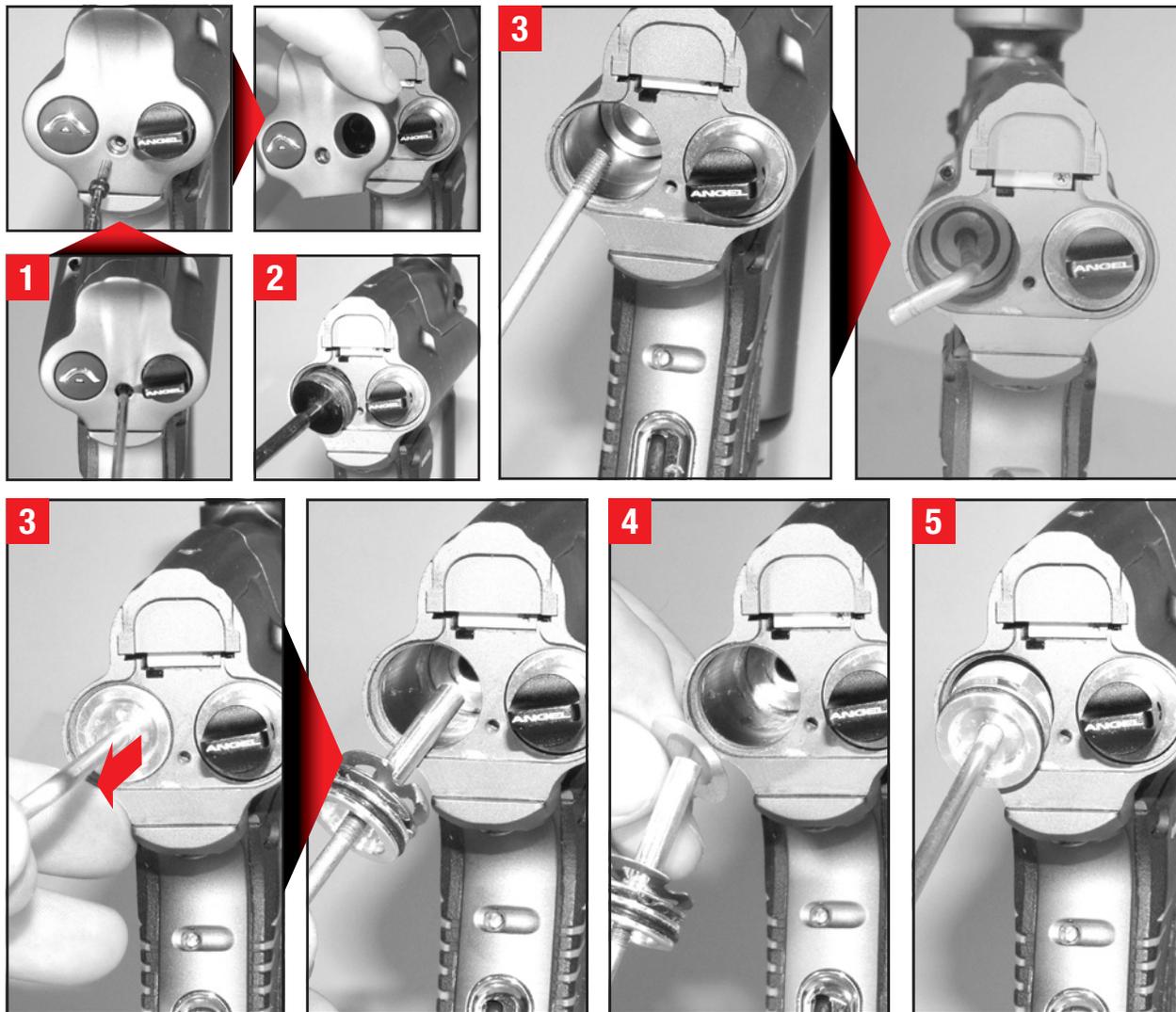
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LPR adjustment

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- 1 Remove the back plate retaining screw using a 2mm Allen wrench.
 - 2 Remove the LPR chamber plug using a 4mm Allen wrench.
 - 3 Using the extraction tool provided - withdraw the LPR piston carefully.
 - 4 Add or remove shims to increase or decrease pressure respectively.
- Approximately: one shim is equal to between 3 and 5 psi.
- 4 Replace the LPR piston and reverse procedure before using the angel.

Note: The order of the three tri-active spring should not be altered.



SPRING STACK ORDER



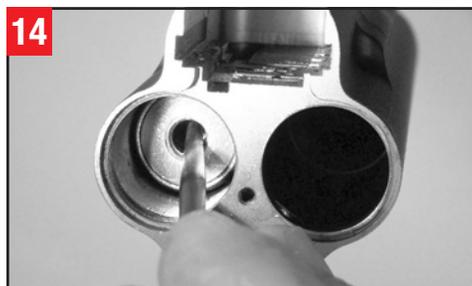
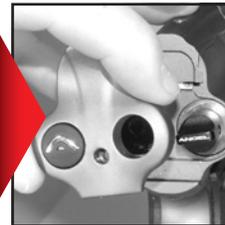
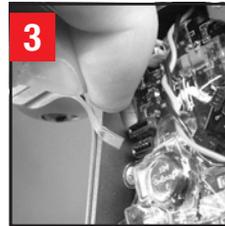
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LPR removal

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- 1** Remove the right hand grip cheek by removing the **3** screws using a suitable 2mm Allen wrench.
- 2** Carefully unplug the solenoid from the board.
- 3** Carefully unplug the eye ribbons from the board.
- 4** Remove the two screws retaining the grip frame using a 2mm Allen wrench.
- 5** Turn the breech release knob clockwise and remove the bolt from the breech.
- 6** Remove the back plate retaining screw (2mm Allen wrench) and remove the back plate.
- 7** Remove the LPR chamber plug using a 4mm Allen wrench.
- 8** Loosen the top plate retaining screw using a 2.5mm Allen wrench...
- 9** ...and slide the top plate from the body.
- 10** Carefully lift and remove the solenoid - carefully extracting the solenoid plugs from the grip frame housing.
- 11** Extract the LPR retaining pin.
- 12** Remove the LPR piston using the extraction tool supplied.
- 13** Using a blunt pick remove the solenoid wire spacer.
- 14** Using a blunt pick extract the LPR body.

To rebuild, reverse procedure.



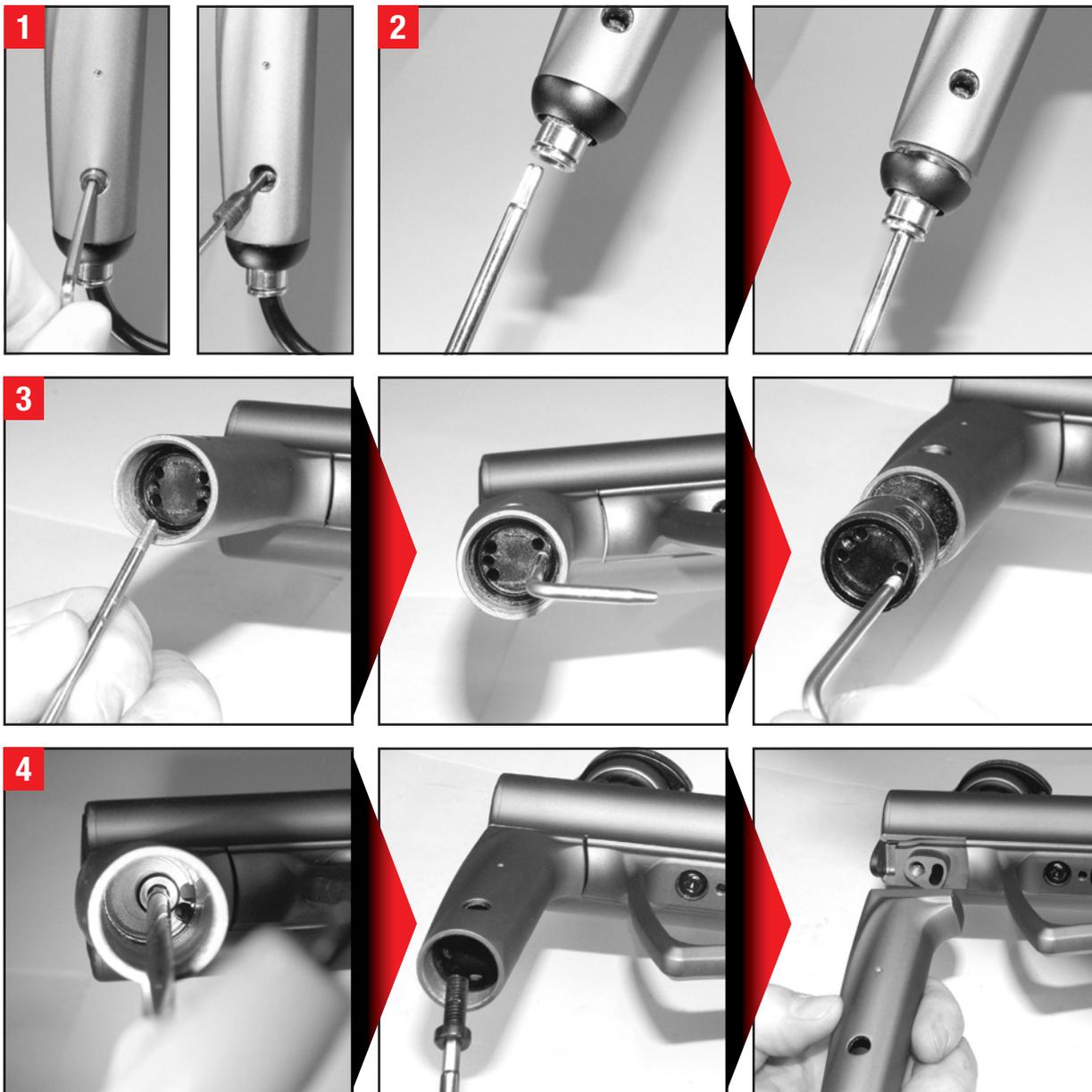
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Mini reg removal

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- Take suitable precautions when using sharp cutting instruments.
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- 1 Remove the velocity adjuster screw located on the foregrip, using a 3mm Allen wrench.
- 2 Remove the foregrip cap, using a 4mm Allen wrench.
- 3 Using the extraction tool provided, remove the mini-reg cartridge.
- 4 Using a 4mm Allen wrench remove the foregrip retention screw.



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Mini reg pressure test

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1 Remove the volume chamber maintenance plug using a 4mm Allen wrench.

2 Screw in the LPR pressure gauge until it stops turning.

IMPORTANT NOTE:-

Follow all safety procedures outlined on **page 2** and all local and federal laws.

4 Re-gas and turn on your Angel. Fire seven shots to stabilize pressure and take your reading.

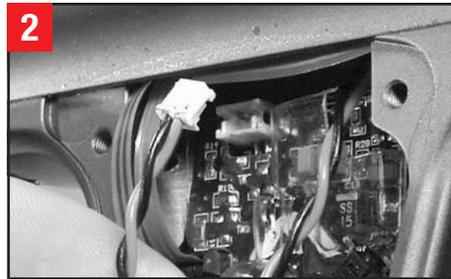
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Ram removal

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ADHERE STRICTLY TO THESE AND ALL OTHER SAFETY INSTRUCTIONS AND GUIDELINES

- Ensure the ANGEL is switched off via the navigation switch on the rear of the grip frame prior to fitting your first stage regulator.
- Ensure a barrel blocking device is fitted to the ANGEL.
- Ensure the hopper is removed from the ANGEL.
- Ensure that there are no paintballs in the ANGEL.
- Paintball industry standard eye/face/ear and head protection designed specifically to stop paintballs and meeting ASTM standard F1776 (USA) or CE standard (Europe) must be worn by user and any person within range.
- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the ANGEL.
- Use compressed air/nitrogen gas only DO NOT USE CO2.
- Only use a paintball regulator that has been designed for air or nitrogen gas.
- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
- The Macro Line hose must be cut back cleanly and square prior to attachment or re-attachment to ensure secure fitment.
- SHOULD YOU BE UNSURE AT ANY STAGE YOU MUST SEEK EXPERT ADVICE.



- 1** Remove the right hand grip cheek by removing the **3** screws using a suitable 2mm Allen wrench.
- 2** Carefully unplug the solenoid from the board.
- 3** Carefully unplug the eye ribbons from the board.
- 4** Turn the breech release knob clockwise and remove the bolt from the breech.
- 5** Remove the back plate retaining screw (2mm Allen wrench) and remove the back plate.
- 6** Remove the LPR chamber plug using a 4mm Allen wrench.
- 7** Remove the two screws retaining the grip frame using a 2mm Allen wrench and remove the grip frame.
- 8** Withdraw the Ram retaining pin.
- 9** The ram can now be withdrawn.

To rebuild, reverse procedure.

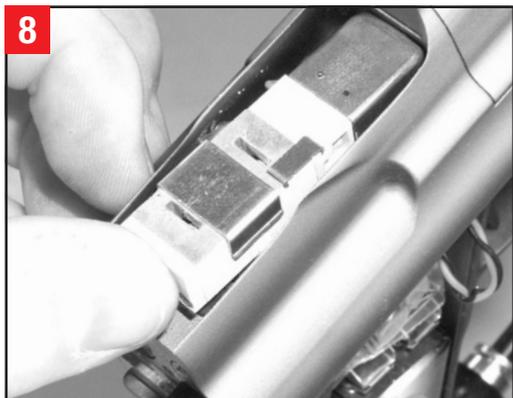
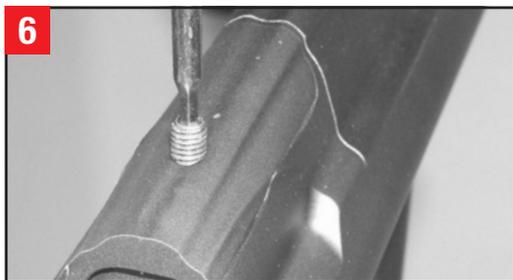
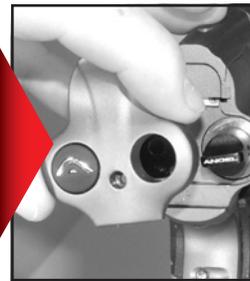
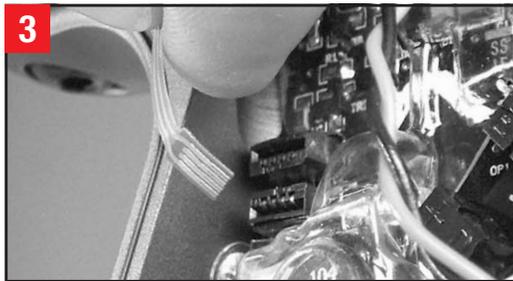
ANGEL™ 1

Solenoid removal

⚠ WARNING

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- Ensure the ANGEL is switched off via the navigation switch on the rear of the grip frame prior to fitting your first stage regulator.
- Ensure a barrel blocking device is fitted to the ANGEL.
- Ensure the hopper is removed from the ANGEL.
- Ensure that there are no paintballs in the ANGEL.
- Paintball industry standard eye/face/ear and head protection designed specifically to stop paintballs and meeting ASTM standard F1776 (USA) or CE standard (Europe) must be worn by user and any person within range.
- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the ANGEL.
- Use compressed air/nitrogen gas only DO NOT USE CO2.
- Only use a paintball regulator that has been designed for air or nitrogen gas.
- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
- The Macro Line hose must be cut back cleanly and square prior to attachment or re-attachment to ensure secure fitment.
- SHOULD YOU BE UNSURE AT ANY STAGE YOU MUST SEEK EXPERT ADVICE.



- 1 Remove the right hand grip cheek by removing the **3** screws using a suitable 2mm Allen wrench.
- 2 Carefully unplug the solenoid from the board.
- 3 Carefully unplug the eye ribbons from the board.
- 4 Remove the back plate retaining screw (2mm Allen wrench) and remove the back plate.
- 5 Remove the LPR chamber plug using a 4mm Allen wrench.
- 6 Loosen the top plate retaining screw using a 2.5mm Allen wrench...
- 7 ...and slide the top plate from the body.
- 8 Carefully lift and remove the solenoid
- 9 Being carefully when extracting the solenoid plugs from the grip frame housing.

To rebuild, reverse procedure.



ANGEL™ 1

Trigger adjustment

⚠ WARNING

ADHERE STRICTLY TO THESE AND ALL OTHER SAFETY INSTRUCTIONS AND GUIDELINES

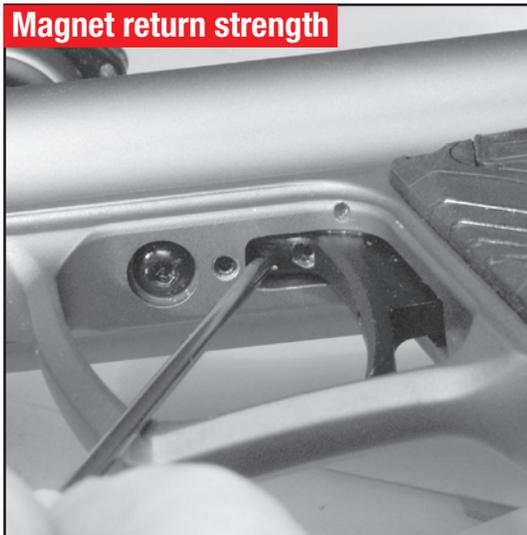
- Ensure the ANGEL is switched off via the navigation switch on the rear of the grip frame prior to fitting your first stage regulator.
- Ensure a barrel blocking device is fitted to the ANGEL.
- Ensure the hopper is removed from the ANGEL.
- Ensure that there are no paintballs in the ANGEL.
- Paintball industry standard eye/face/ear and head protection designed specifically to stop paintballs and meeting ASTM standard F1776 (USA) or CE standard (Europe) must be worn by user and any person within range.
- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the ANGEL.
- Use compressed air/nitrogen gas only DO NOT USE CO2.
- Only use a paintball regulator that has been designed for air or nitrogen gas.
- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
- The Macro Line hose must be cut back cleanly and square prior to attachment or re-attachment to ensure secure fitment.
- SHOULD YOU BE UNSURE AT ANY STAGE YOU MUST SEEK EXPERT ADVICE.



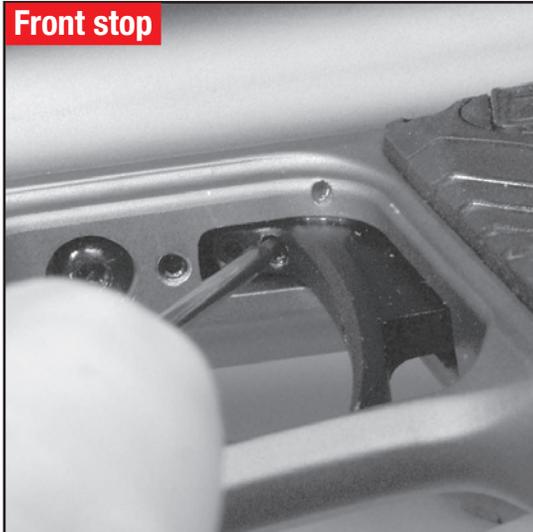
Back stop



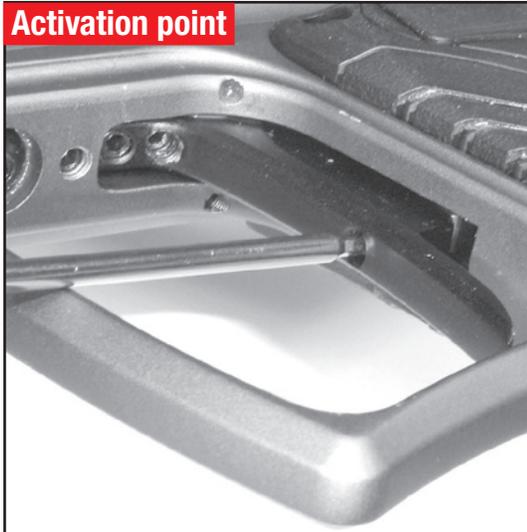
Magnet return strength



Front stop



Activation point



Back stop



Counter clockwise = moves the point at which the trigger stops - backwards, toward the grip cheek



Clockwise = moves the point at which the trigger stops - forwards, away from the grip cheek

Magnet return strength



Counter clockwise = makes magnet return strength weaker.



Clockwise = makes magnet return strength stronger

Front stop



Counter clockwise = moves the point from which the trigger-pull starts forwards, away from the grip cheek



Clockwise = moves the point from which the trigger-pull starts backwards, towards from the grip cheek

Activation point



Counter clockwise = moves the point at which the trigger will activate closer to the end of the trigger pull



Clockwise = moves the point at which the trigger will activate closer to the start of the trigger pull

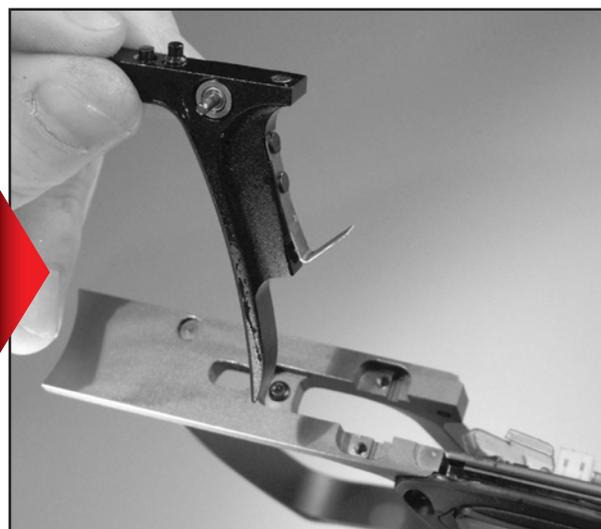
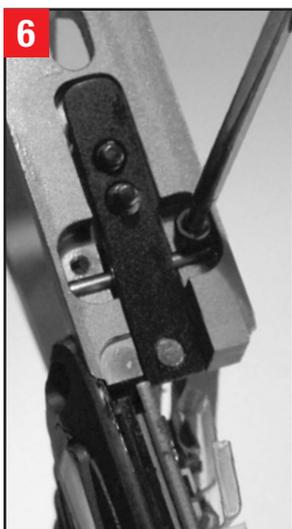
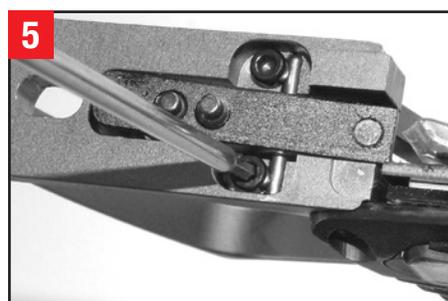
ANGEL™ 1

Trigger removal

⚠ WARNING

ADHERE STRICTLY TO THESE AND ALL OTHER SAFETY INSTRUCTIONS AND GUIDELINES

- Ensure the ANGEL is switched off via the navigation switch on the rear of the grip frame prior to fitting your first stage regulator.
- Ensure a barrel blocking device is fitted to the ANGEL.
- Ensure the hopper is removed from the ANGEL.
- Ensure that there are no paintballs in the ANGEL.
- Paintball industry standard eye/face/ear and head protection designed specifically to stop paintballs and meeting ASTM standard F1776 (USA) or CE standard (Europe) must be worn by user and any person within range.
- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the ANGEL.
- Use compressed air/nitrogen gas only DO NOT USE CO2.
- Only use a paintball regulator that has been designed for air or nitrogen gas.
- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
- The Macro Line hose must be cut back cleanly and square prior to attachment or re-attachment to ensure secure fitment.
- SHOULD YOU BE UNSURE AT ANY STAGE YOU MUST SEEK EXPERT ADVICE.



8 Remove the right hand grip cheek by removing the **3** screws using a suitable 2mm Allen wrench.

2 Carefully unplug the solenoid from the board.

3 Carefully unplug the eye ribbons from the board.

4 Remove the two screws retaining the grip frame using a 2mm Allen wrench and remove the grip frame.

5 6 With the grip frame removed unscrew the trigger fixing screws using a 2.5mm Allen wrench.

7 Remove the trigger.

To rebuild, reverse procedure.

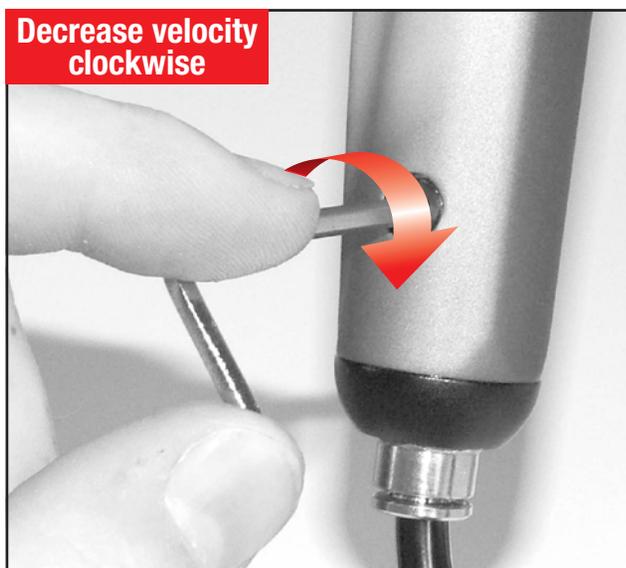
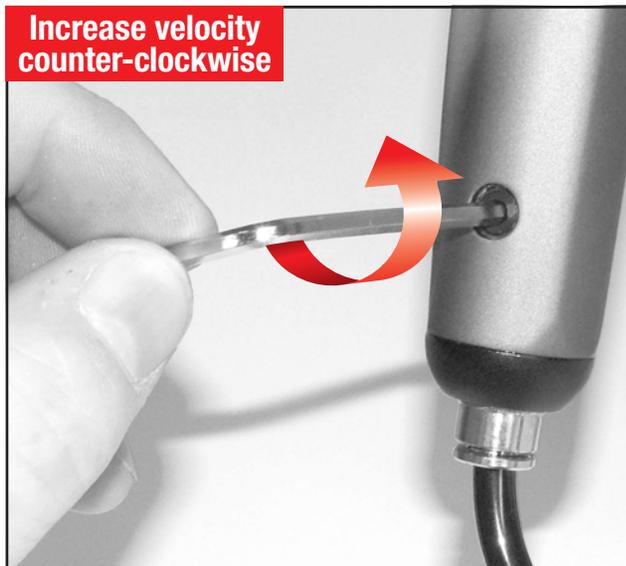
ANGEL™ 1

Velocity Adjustment

⚠ WARNING

ADHERE STRICTLY TO THESE AND ALL OTHER SAFETY INSTRUCTIONS AND GUIDELINES

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- Ensure the hopper is removed from the ANGEL.
- Ensure that there are no paintballs in the ANGEL.
- Ensure the ANGEL is switched off via the navigation switch on the rear of the grip frame prior to fitting your first stage regulator.
- Paintball industry standard eye/face/ear and head protection designed specifically to stop paintballs and meeting ASTM standard F1776 (USA) or CE standard (Europe) must be worn by user and any person within range.
- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the ANGEL.
- Use compressed air/nitrogen gas only DO NOT USE CO2.
- Only use a paintball regulator that has been designed for air or nitrogen gas.
- Do not exceed 850 psi (58bar) input pressure to the ANGEL.
- Take suitable precautions when using sharp cutting instruments.
- The Macro Line hose must be cut back cleanly and square prior to attachment or re-attachment to ensure secure fitment.
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- 1** Using a 3mm Allen wrench turn the velocity adjuster screw either; clockwise to decrease velocity or counter-clockwise to increase velocity.