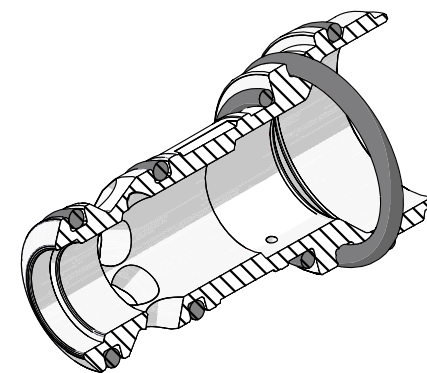
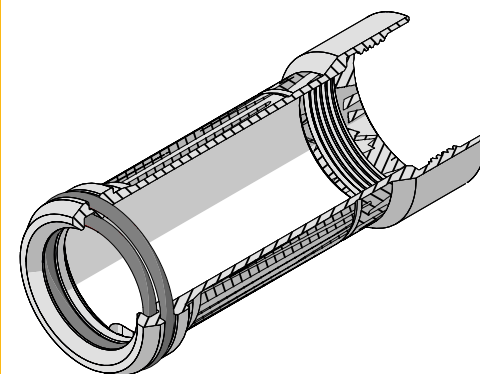
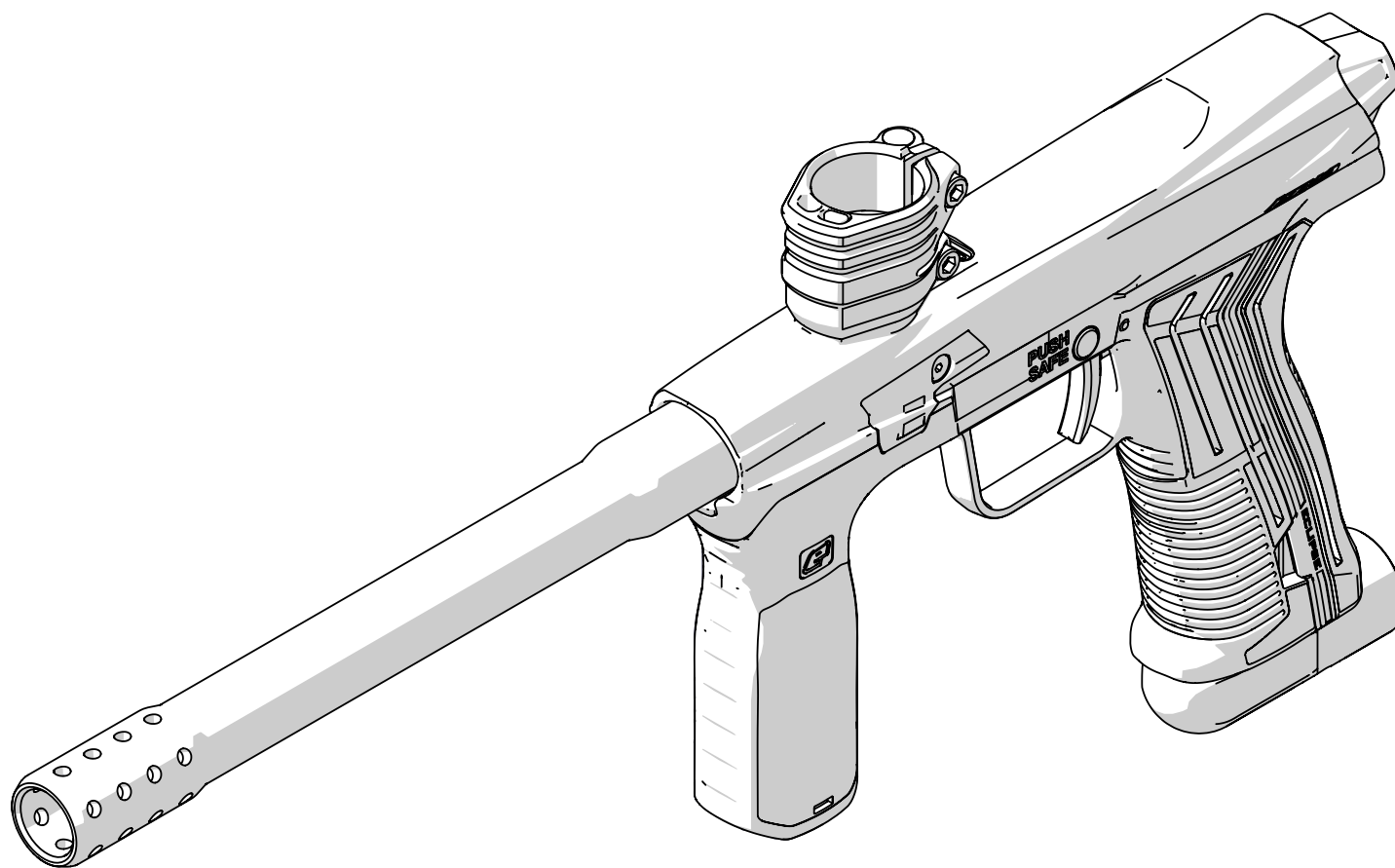




WORKSHOP MANUAL

PLANET ECLIPSE: EMEK .50CAL

E M E K
.50CAL





WARNING

READ CAREFULLY BEFORE USE

- ⚠ **THE PLANET ECLIPSE EMEK IS NOT A TOY. PAINTBALL SAFETY RULES MUST BE FOLLOWED AT ALL TIMES.**
- ⚠ Careless or improper use of the EMEK, including failure to follow instructions and warnings within this Workshop Manual could cause serious injury or death.
- ⚠ Do not remove or deface any warnings attached to the EMEK.
- ⚠ 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 the user and any person within range. Proper protection must be worn during assembly, cleaning and maintenance.
- ⚠ Hearing protection should be worn.
- ⚠ Never shoot at a person who is not wearing proper protection.
- ⚠ Never look directly into the barrel of the marker. Accidental discharge into the eyes may cause permanent injury or death. Never look into the barrel or breech area of the EMEK whilst the marker is switched on and able to fire.
- ⚠ The push button safety is the marker's disabling device, also known as the 'safety'. Always switch the EMEK to 'PUSH SAFE' when not in use and only switch to 'PUSH FIRE' when ready to shoot.
- ⚠ Treat every marker as if it is loaded and ready to fire.
- ⚠ Always fit a barrel blocking device to the EMEK when not in use.
- ⚠ Always remove paintballs from the EMEK when not in use.
- ⚠ Do not field strip or remove any parts while the marker is pressurised.
- ⚠ Do not pressurise the EMEK without all the components of the marker correctly installed, as high-pressure gas may be emitted.
- ⚠ Do not fire the EMEK without the bolt correctly installed.
- ⚠ Never put your finger or any foreign objects into the paintball feed tube of the EMEK.
- ⚠ Never allow pressurised gas to come into contact with any part of your body.
- ⚠ Always remove the first stage regulator and relieve all residual gas pressure from the EMEK before disassembly.
- ⚠ Always remove the first stage regulator and relieve all residual gas pressure from the EMEK for transport and storage.
- ⚠ Always follow the guidelines given with your first stage regulator for safe transportation and storage.
- ⚠ Always store the EMEK in a secure place.
- ⚠ Observe all local and national laws, regulations and guidelines.
- ⚠ Persons under 18 years of age must have adult supervision when using or handling the EMEK.
- ⚠ Only use professional paintball fields where codes of safety are strictly enforced.
- ⚠ Only use compressed air/nitrogen. Do not use any other compressed gas or pressurised liquid including CO2.
- ⚠ Always follow instructions, warnings and guidelines given with any first stage regulator you use with the EMEK.
- ⚠ Use 0.68 inch calibre paintballs only.
- ⚠ Always measure your marker's velocity before playing paintball, using a suitable chronograph.
- ⚠ Never shoot at velocities in excess of 300 feet (91.44 metres) per second, or at velocities greater than local or national laws allow.
- ⚠ Any installations, modifications or repairs should be carried out by a qualified individual at a licensed and insured paintball facility.

This Users Manual is in English.



It contains important safety guidelines and instructions. Should you be unsure at any stage, or unable to understand the contents of this manual you must seek expert advice.



Le mode d'emploi est en Anglais.

Il contient des instructions et mesures de sécurité importantes. En cas de doute, ou s'il vous est impossible de comprendre le contenu du mode d'emploi, demandez conseil à un expert.



Este manual de usuarios (operarios)

Usarios está en Inglés. Contiene importantes normas de seguridad e instrucciones. Si no está seguro de algún punto o no entiende los contenidos de este manual debe consultar con un experto.



Diese Bedienungs - und Benutzeranleitung ist in Englisch.

Sie enthält wichtige Sicherheitsrichtlinien und -bestimmungen. Sollten Sie sich in irgendeiner Weise unsicher sein, oder den Inhalte dies Heftes nicht verstehen, lassen Sie sich bitte von einen Experten beraten.



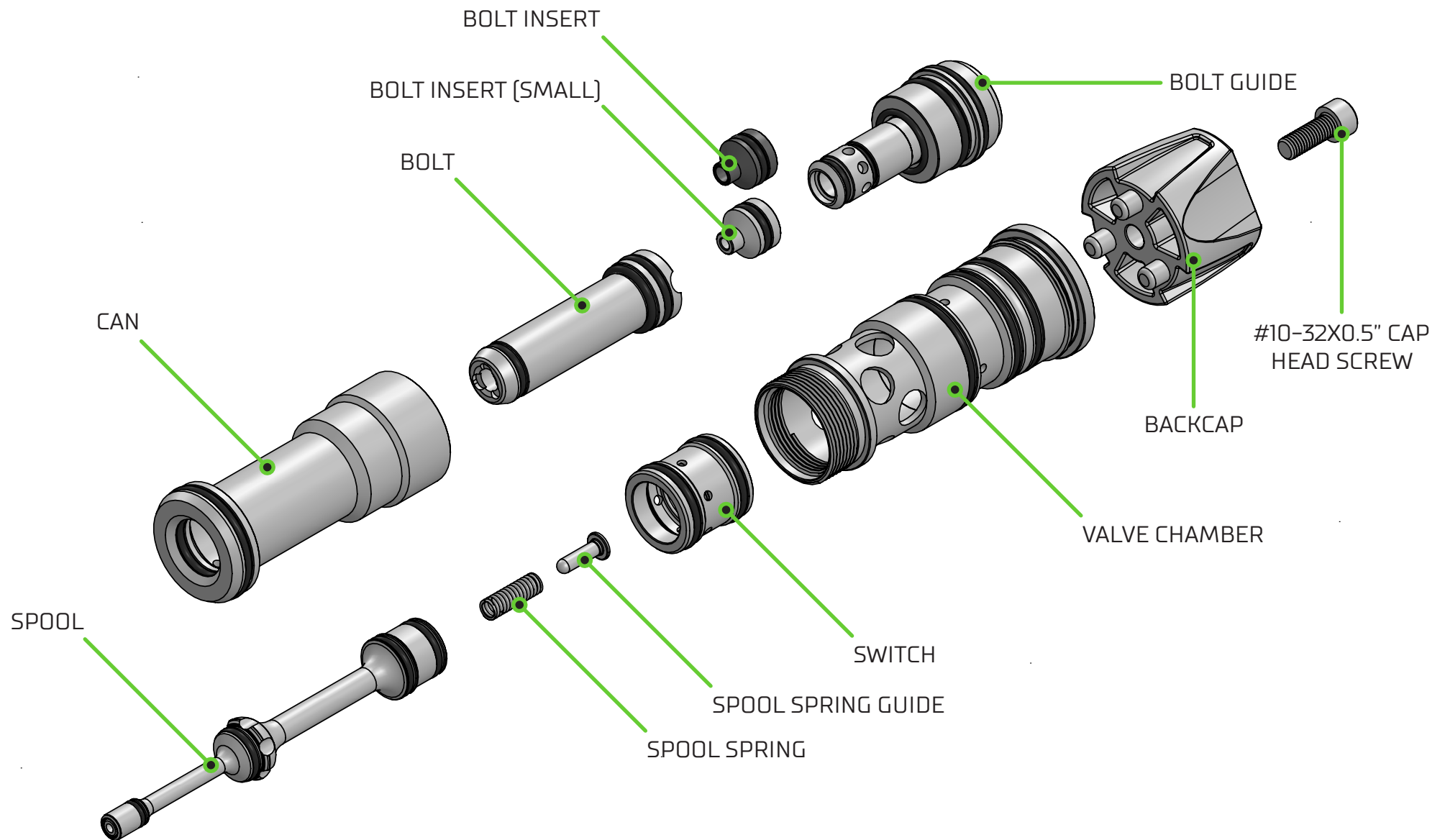
CONTENTS

01	BOLT SYSTEM
02	FRAME ASSEMBLY
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27	SHOOTING MULTIPLE SHOTS WHEN TRIGGER HELD DOWN
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01

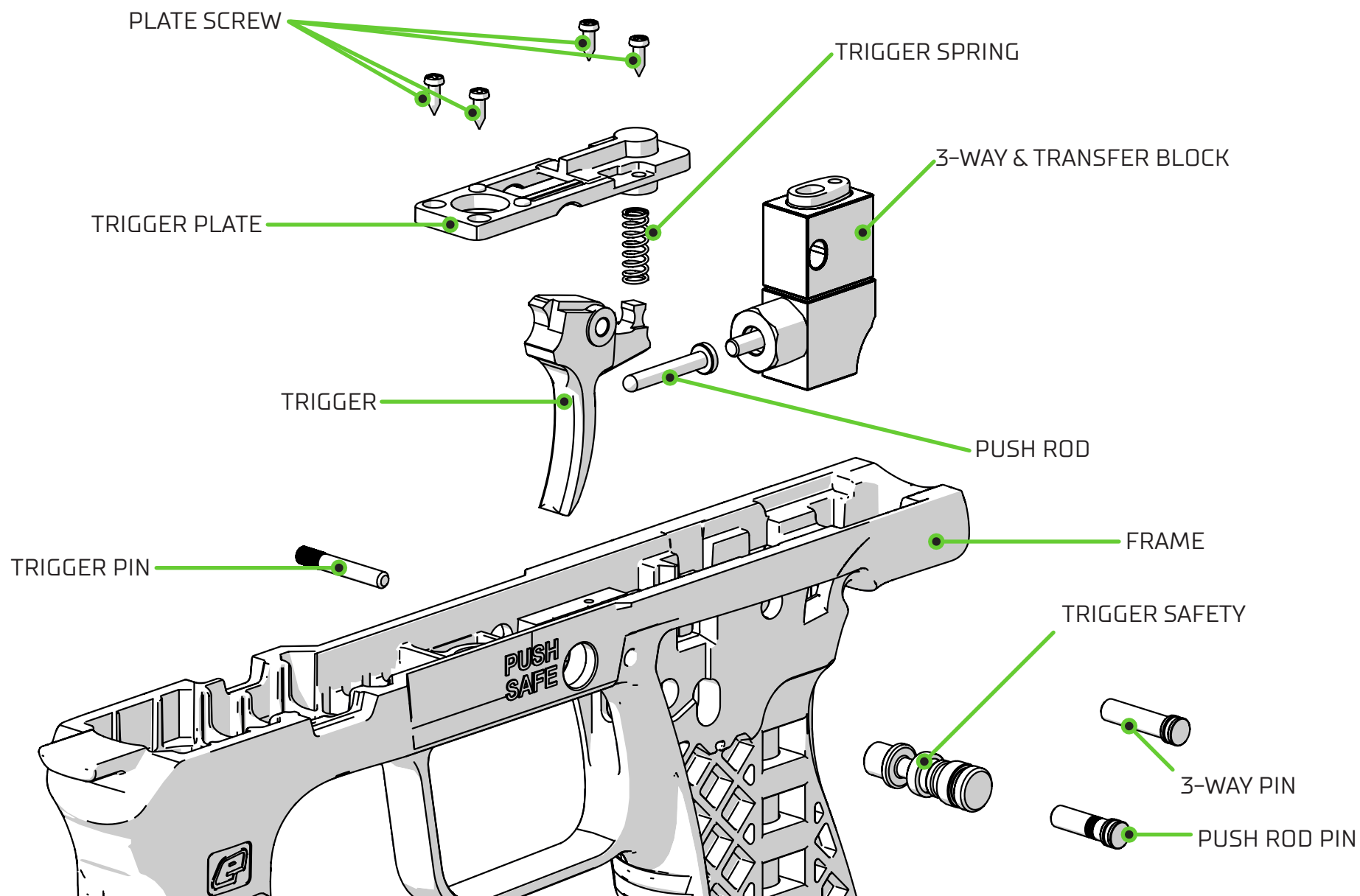
BOLT SYSTEM





02

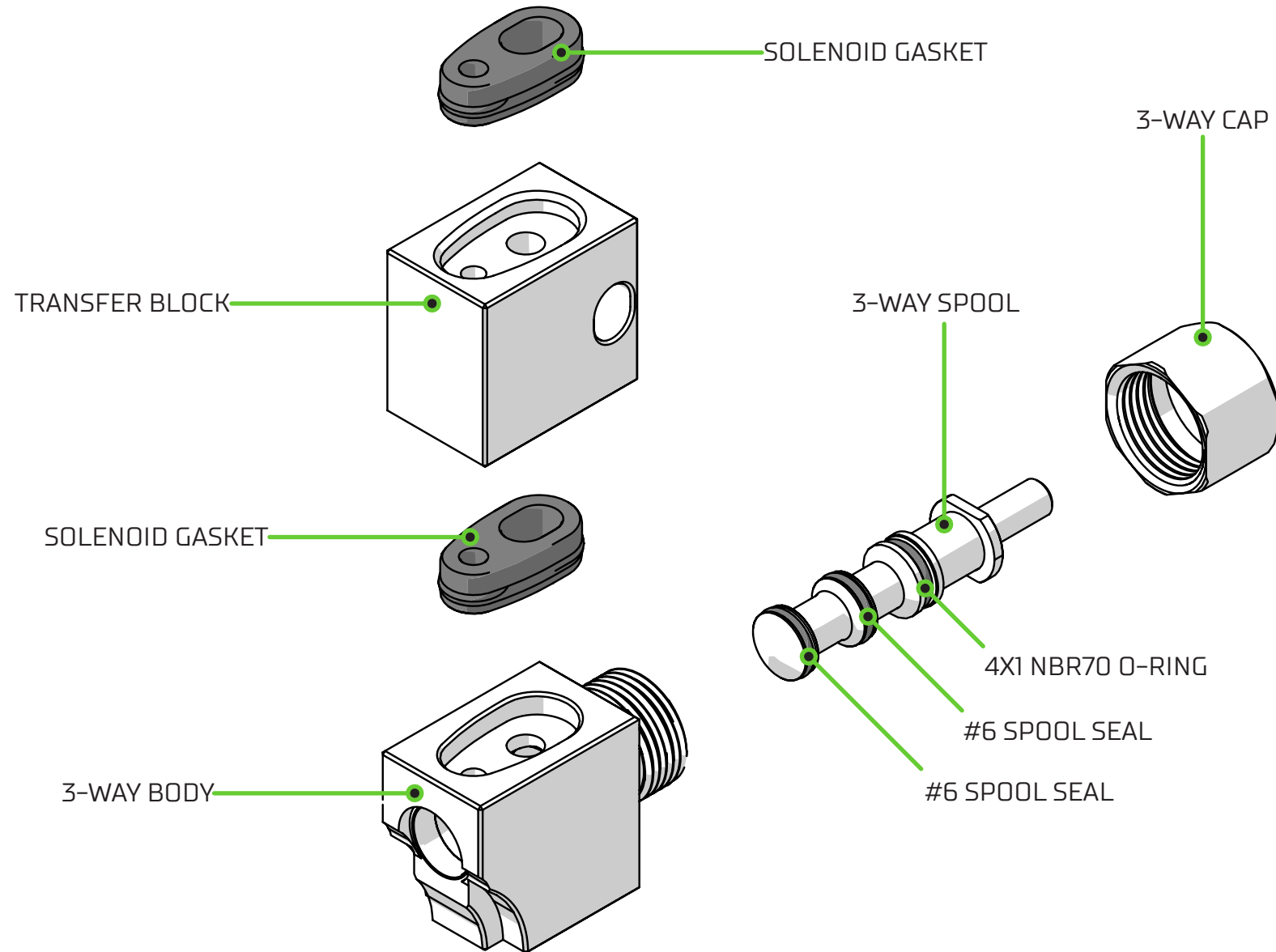
FRAME ASSEMBLY





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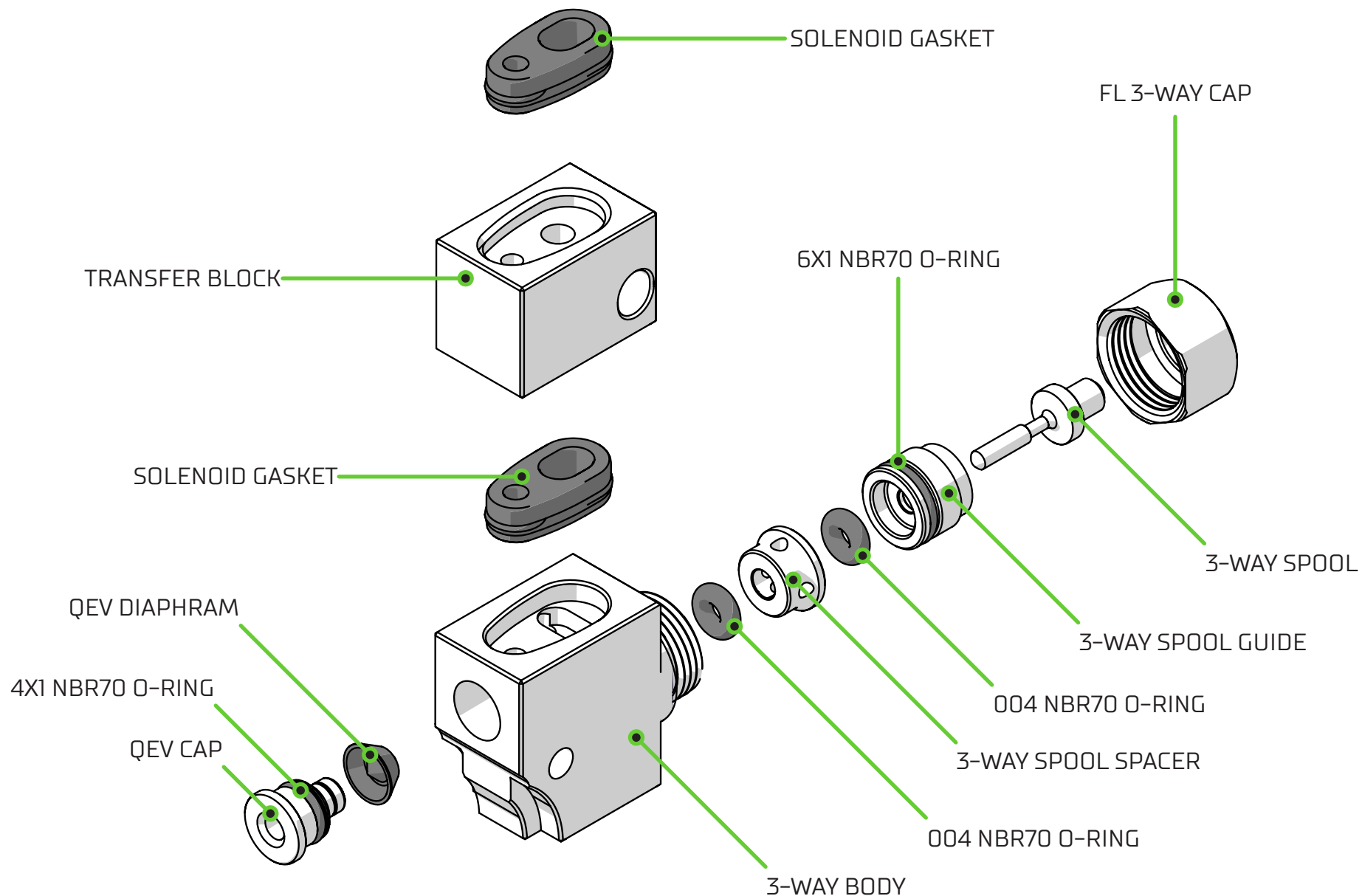
3-WAY VALVE





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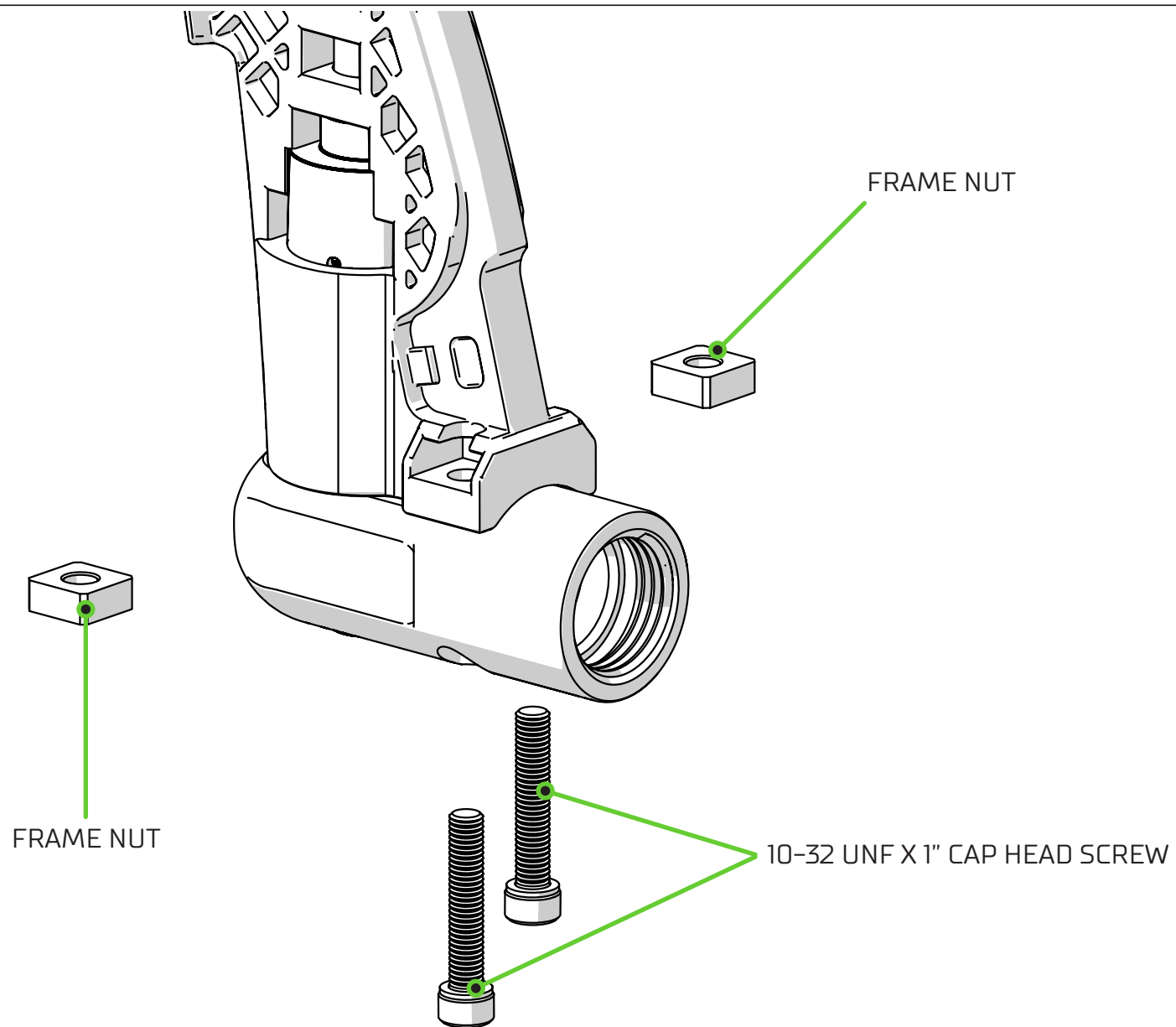
FL 3-WAY VALVE





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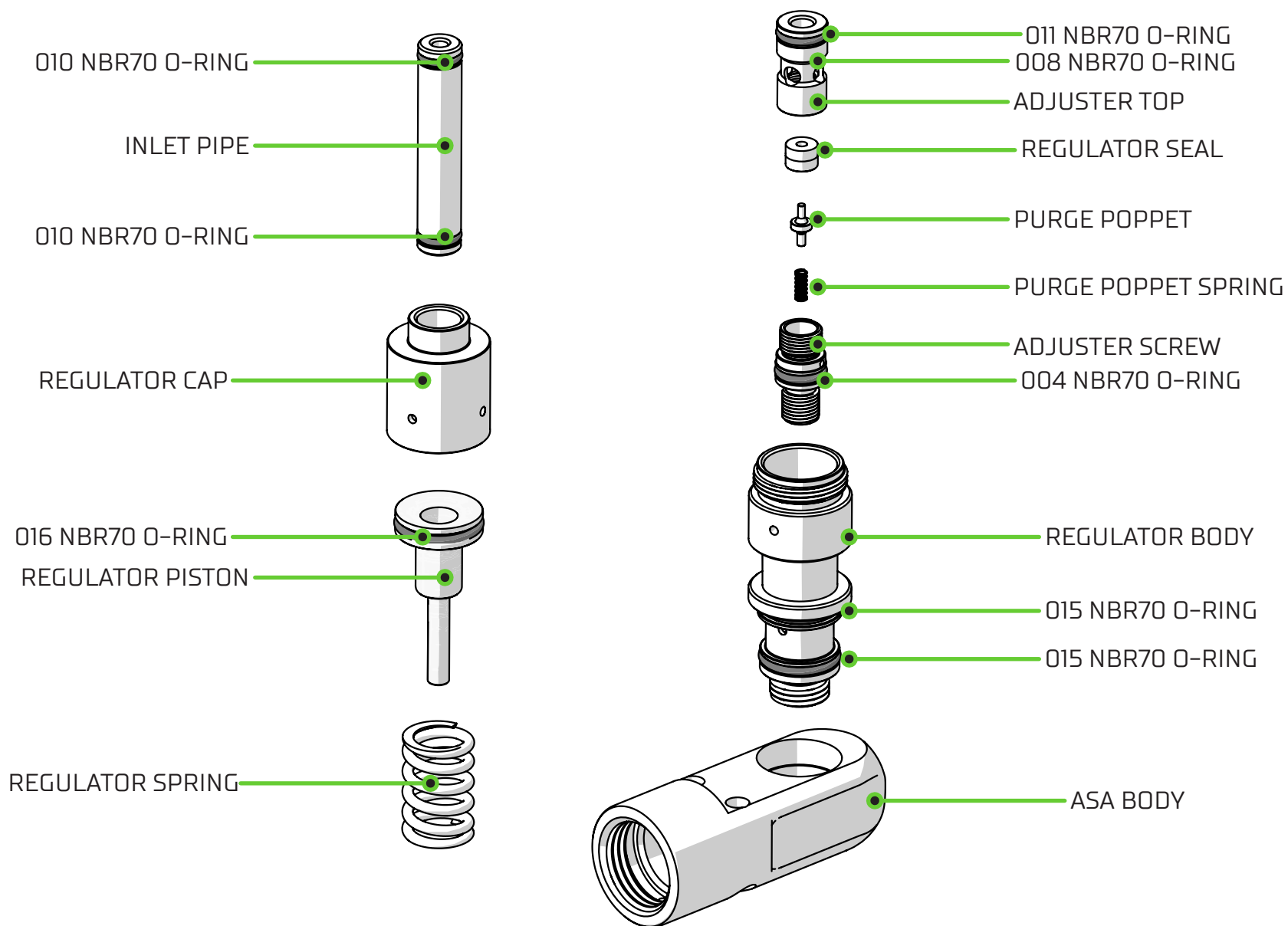
ASA SCREWS





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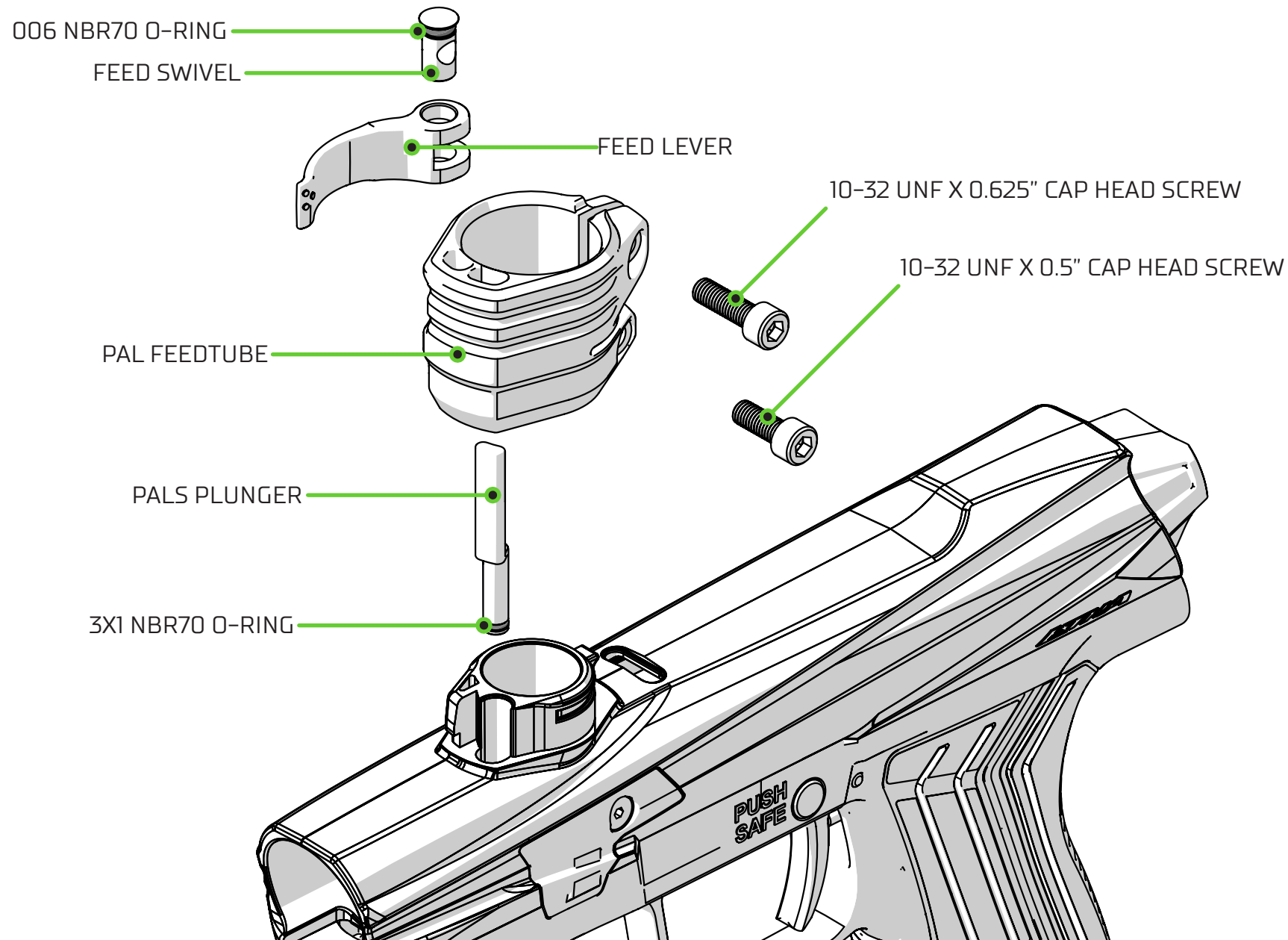
REGULATOR ASSEMBLY





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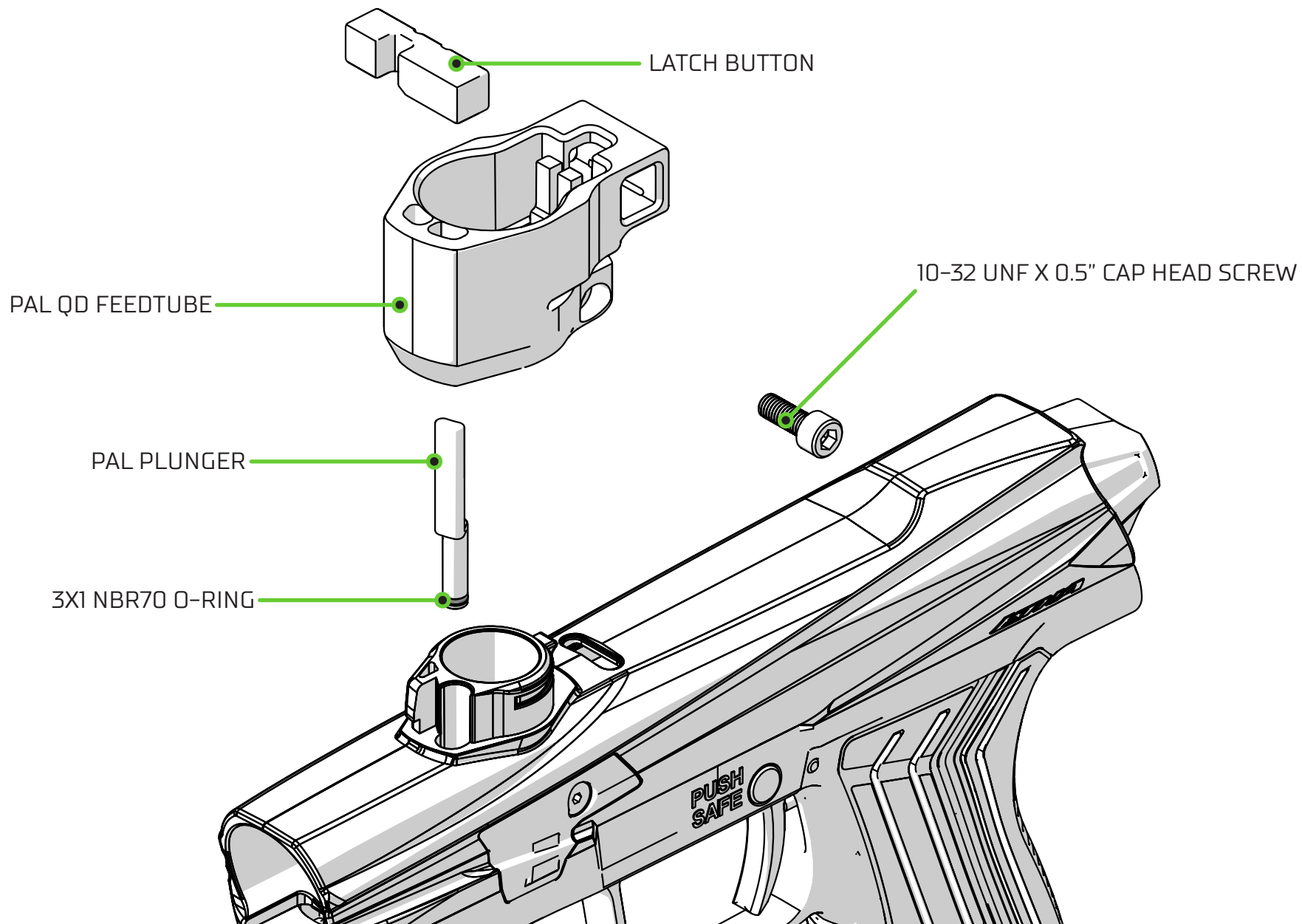
PAL FEEDTUBE ASSEMBLY





08

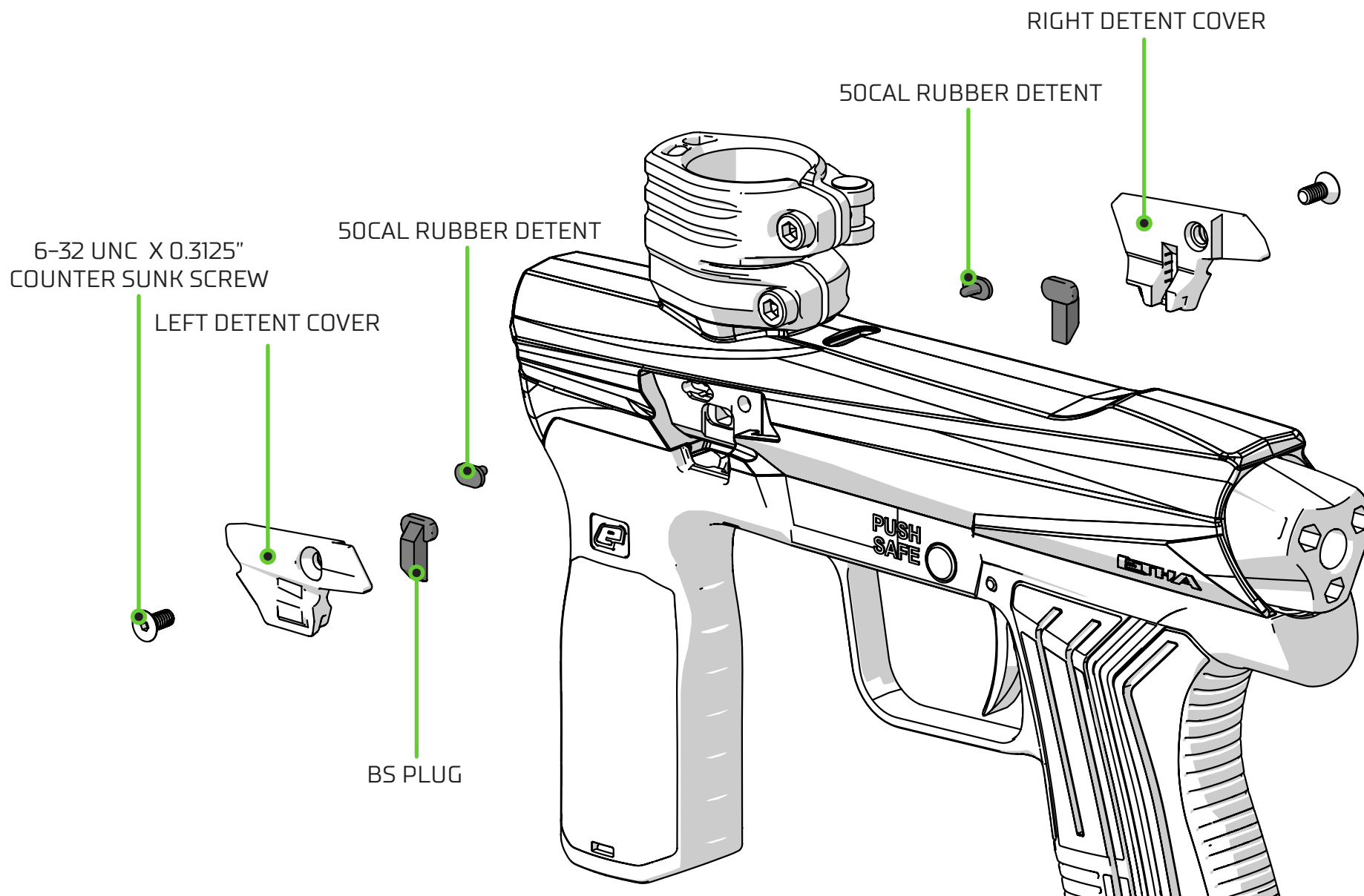
PAL QD FEEDTUBE ASSEMBLY





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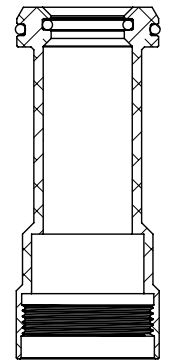
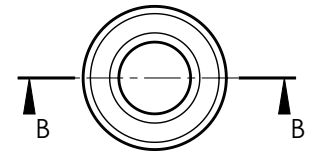
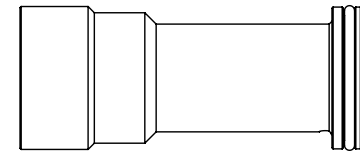
DETENT ASSEMBLY





10

CAN



SECTION B-B

020 NBR70 O-RING

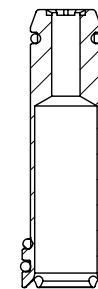
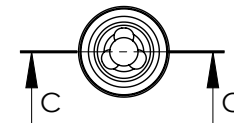
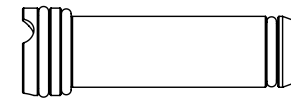
014 NBR70 O-RING

CAN

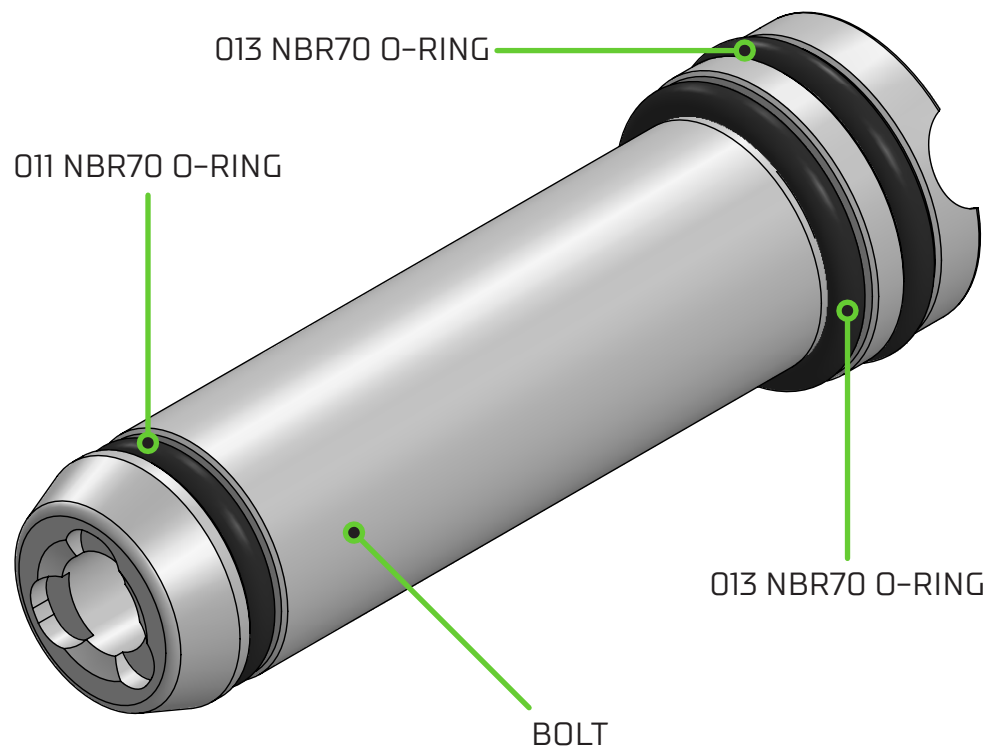


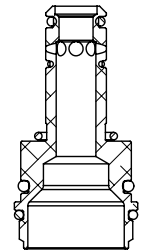
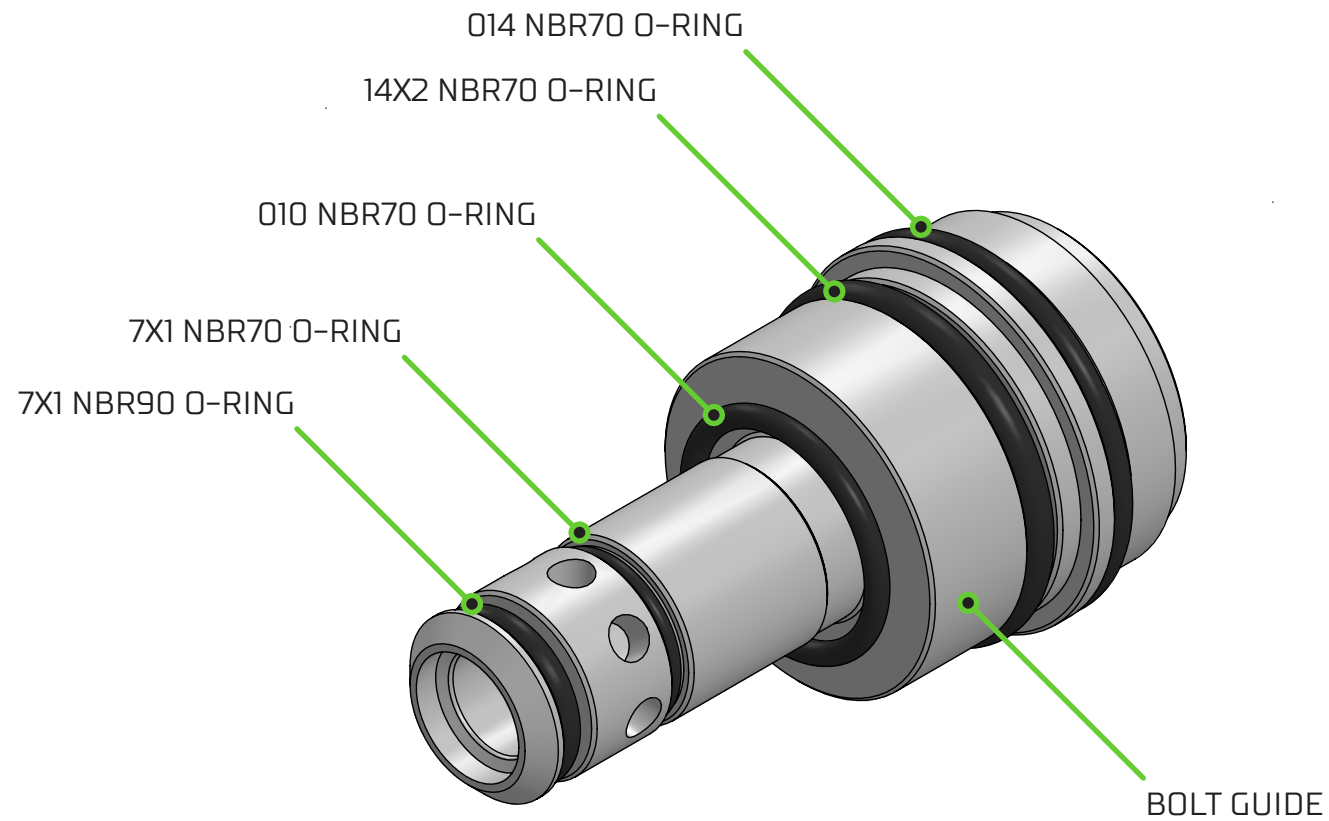
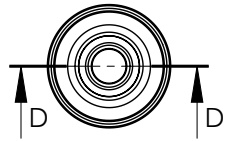
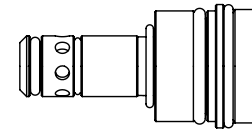
11

BOLT



SECTION C-C



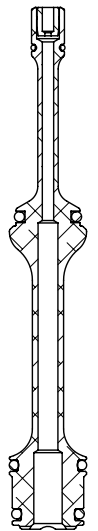
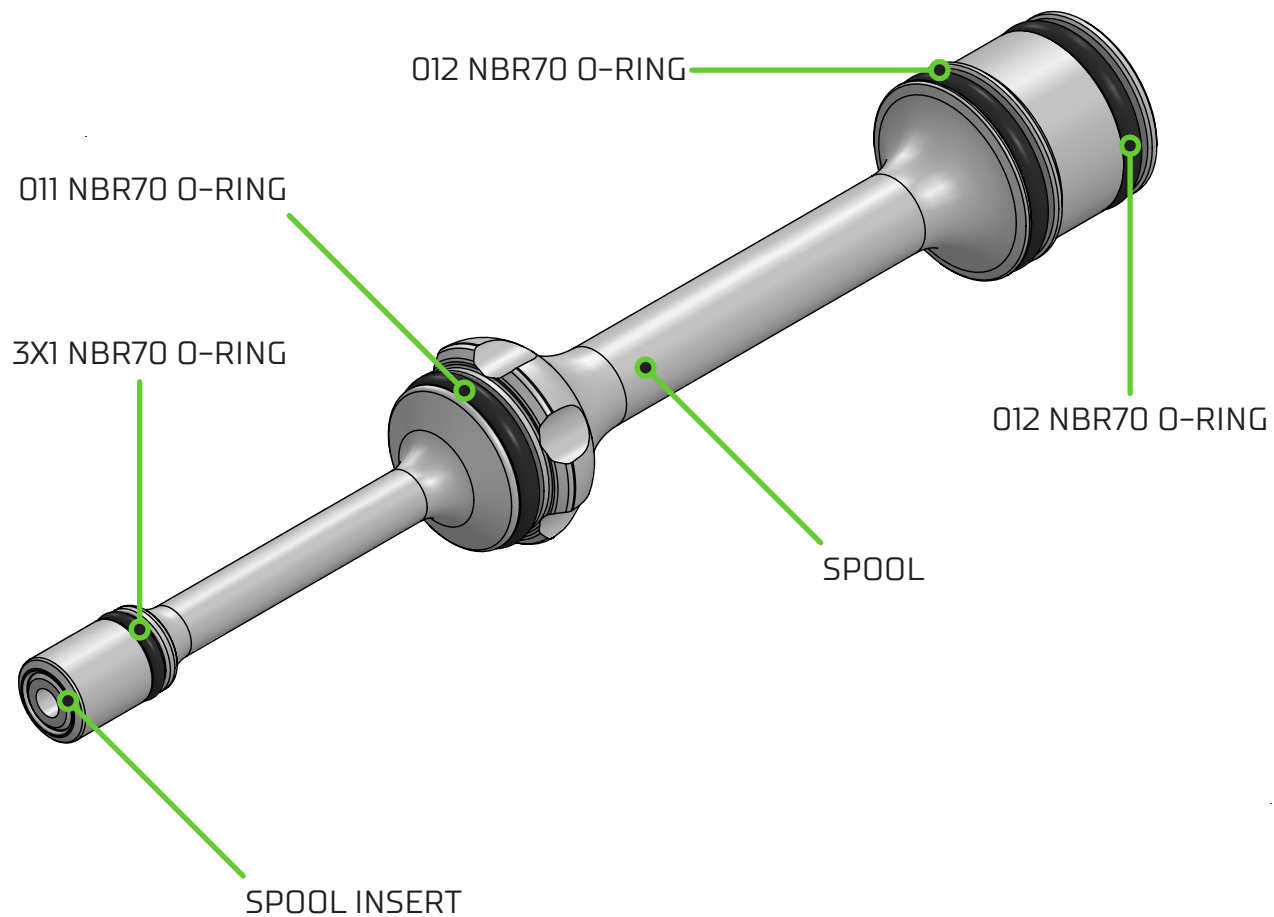
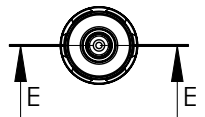
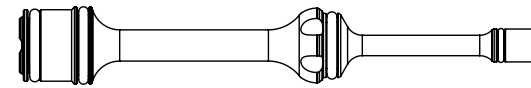


SECTION D-D

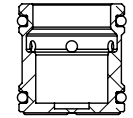
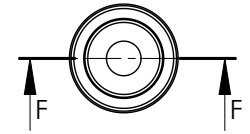
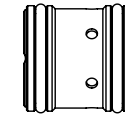


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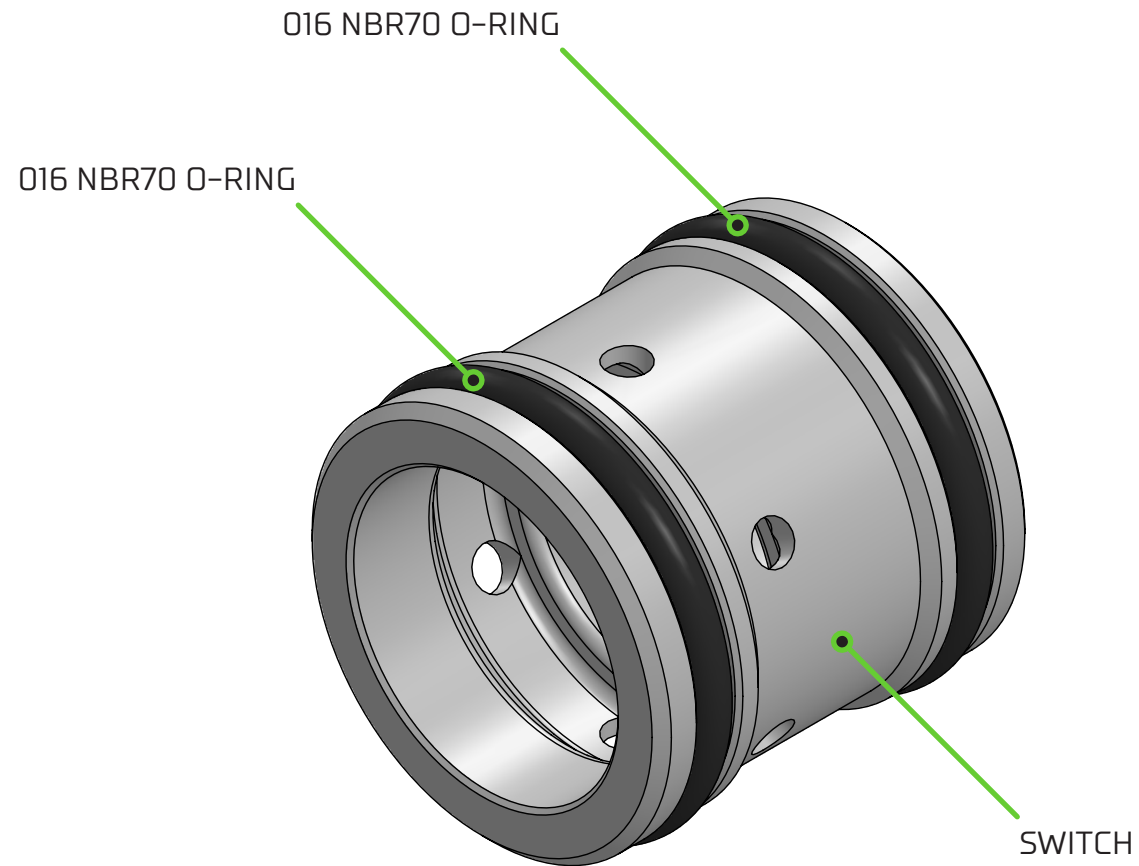
SPOOL

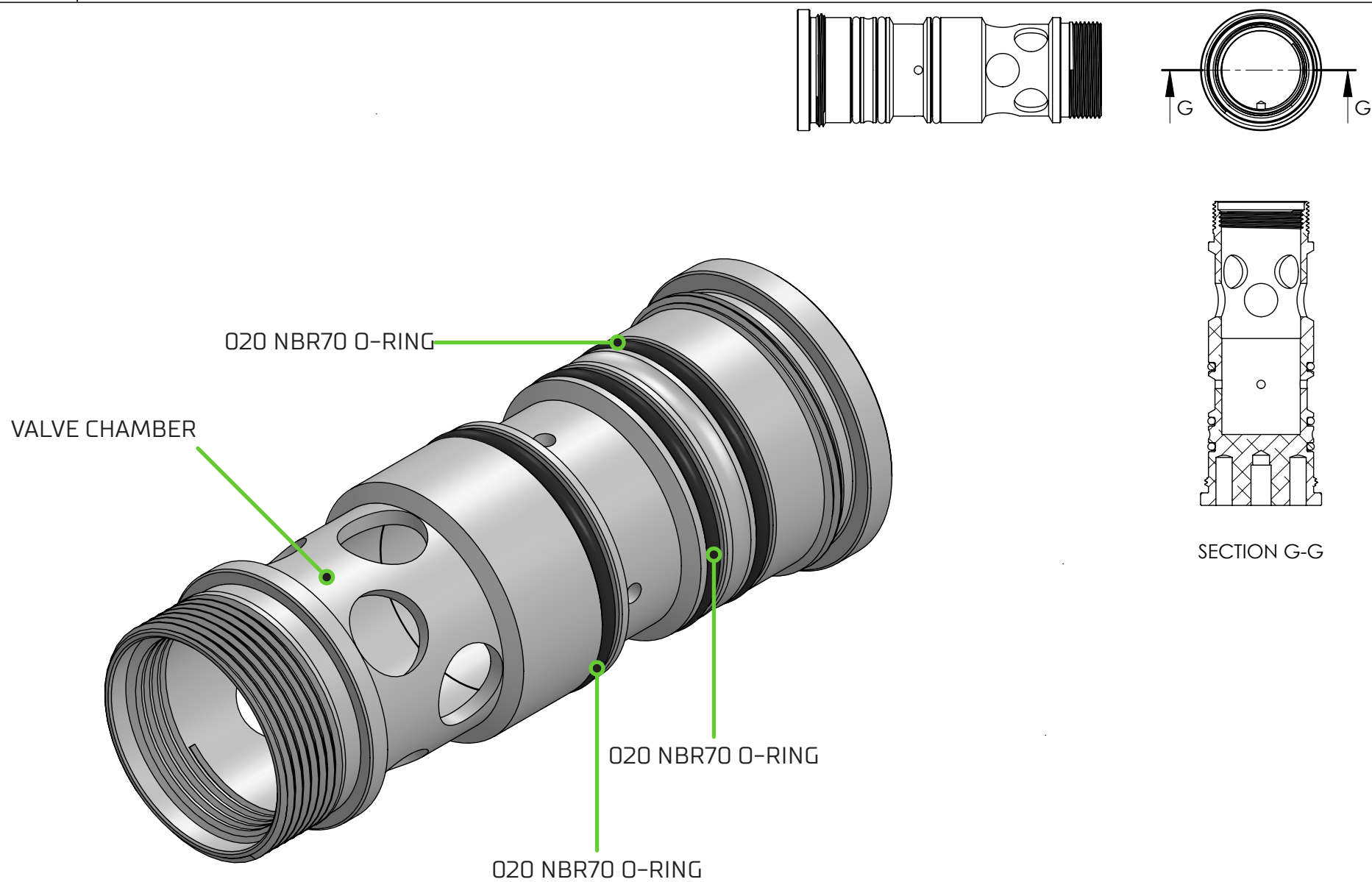


SECTION E-E



SECTION F-F

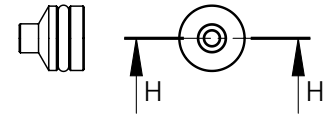






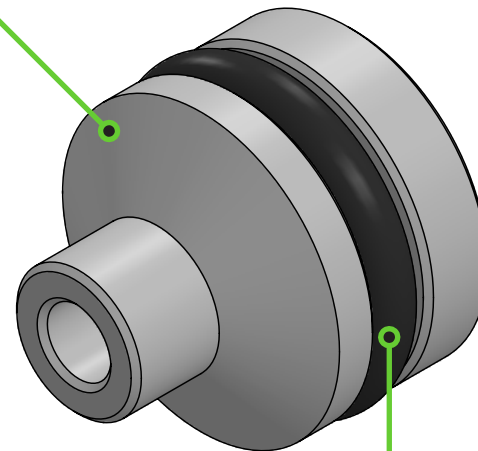
16

BOLT INSERT



SECTION H-H

BOLT INSERT



011 NBR70 O-RING



17

LEAKING DOWN THE BARREL

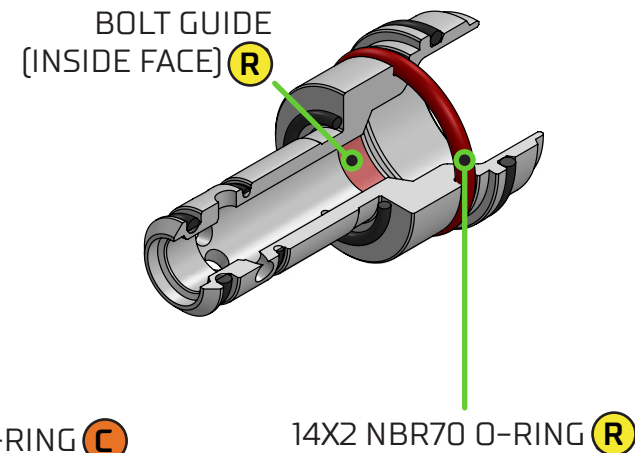
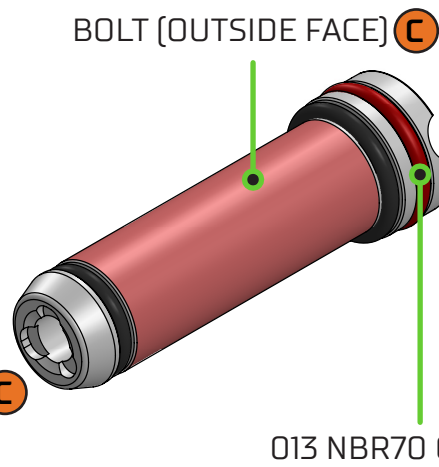
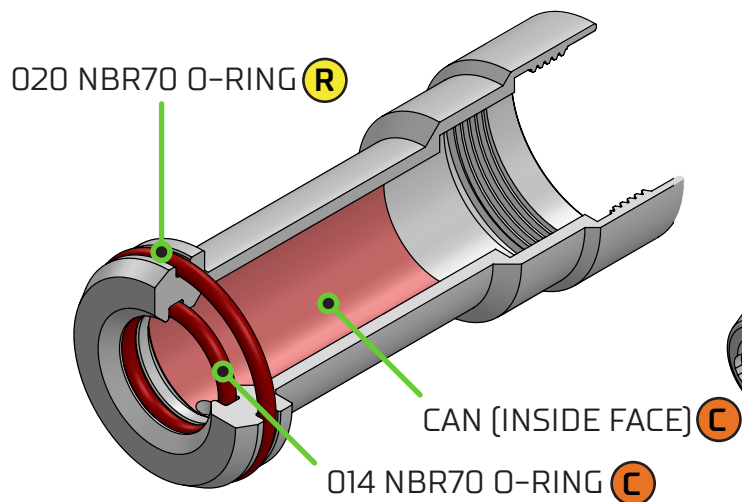
CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT R = RARE FAULT

CAN

BOLT

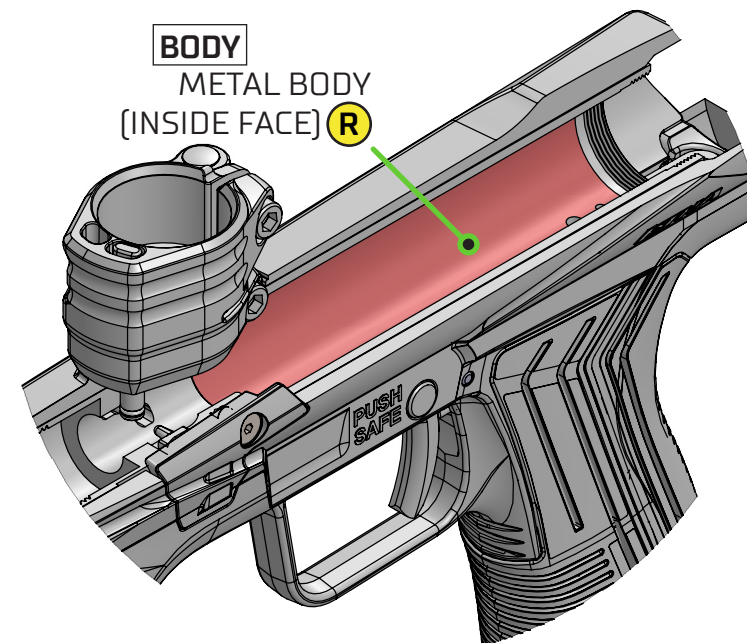
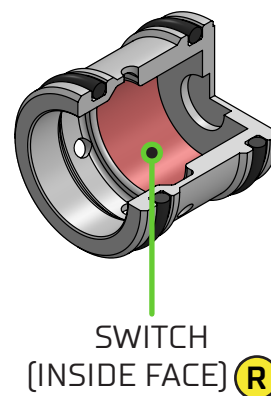
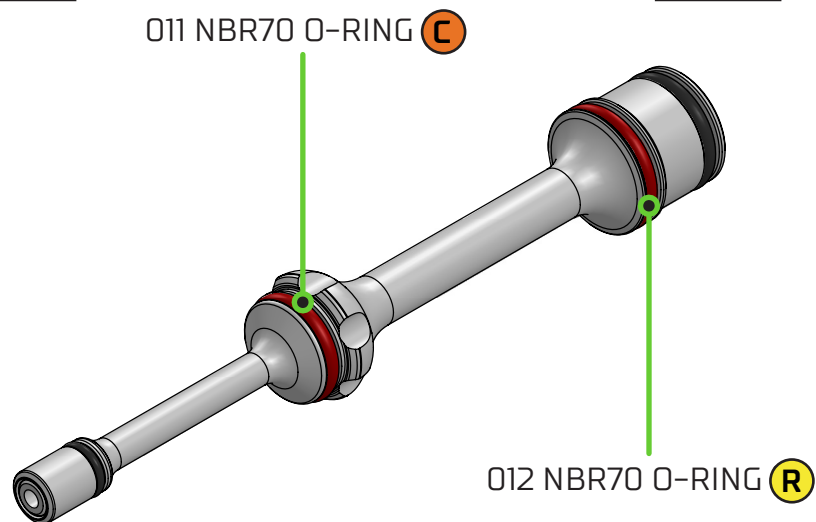
BOLT GUIDE



SPOOL

SWITCH

BODY





18

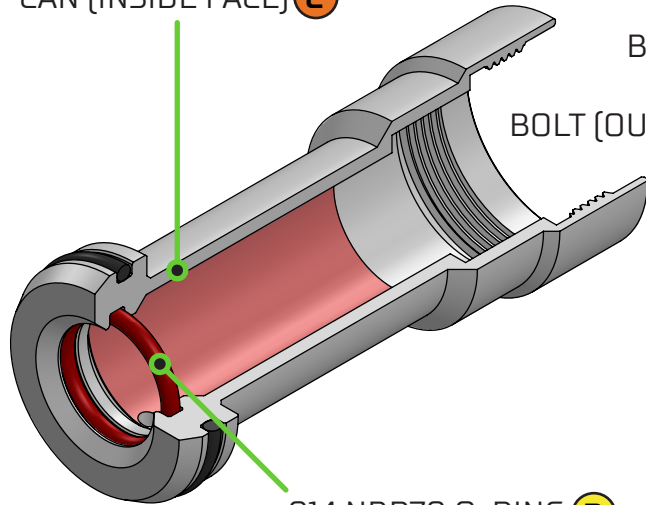
FIRST SHOT DROP OFF (FSDO)

CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT **R** = RARE FAULT

CAN

CAN (INSIDE FACE) **C**



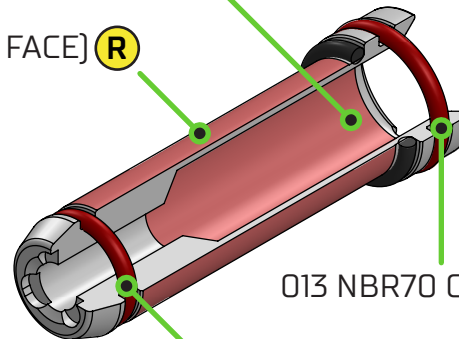
014 NBR70 O-RING **R**

SPOOL

BOLT

BOLT (INSIDE FACE) **C**

BOLT (OUTSIDE FACE) **R**



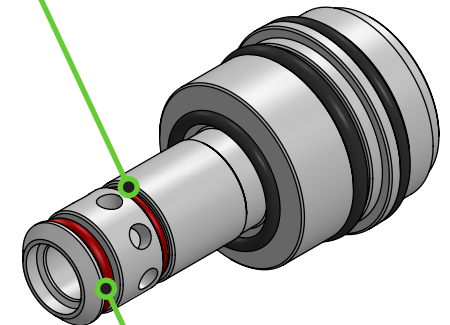
013 NBR70 O-RING **C**

011 NBR70 O-RING **R**

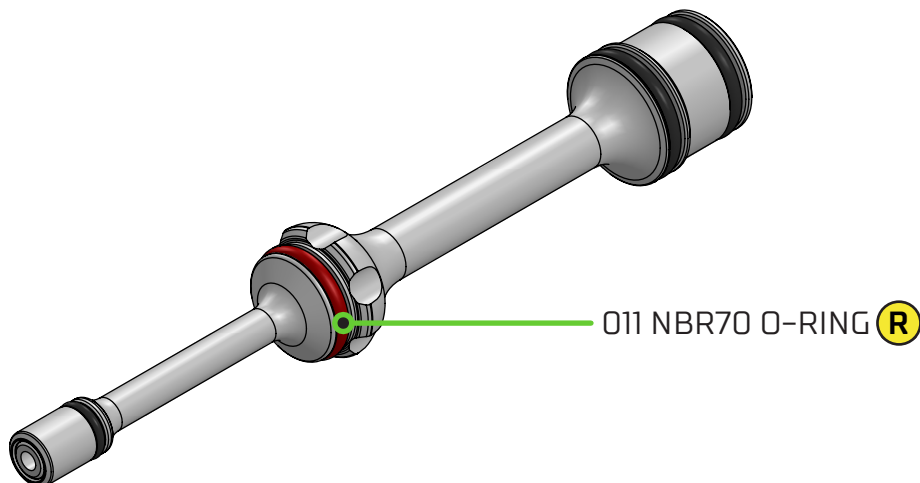
SWITCH

BOLT GUIDE

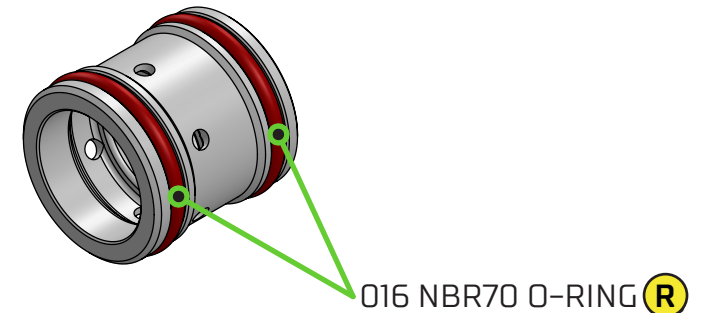
7X1 NBR70 O-RING **C**



7X1 NBR90 O-RING **C**



011 NBR70 O-RING **R**



016 NBR70 O-RING **R**



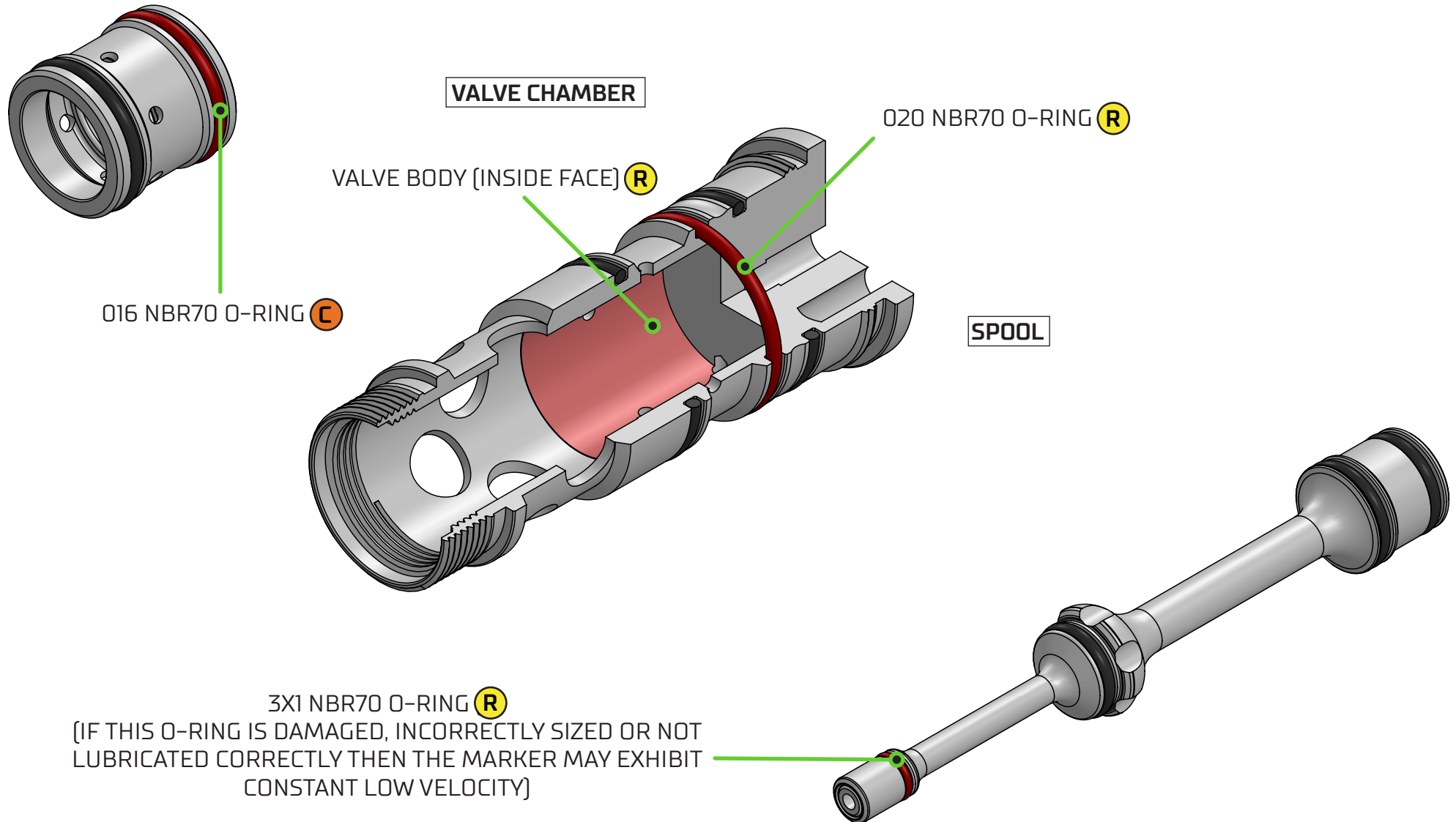
19

'PUFFS' AND DOES NOT FIRE

CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT **R** = RARE FAULT

SWITCH





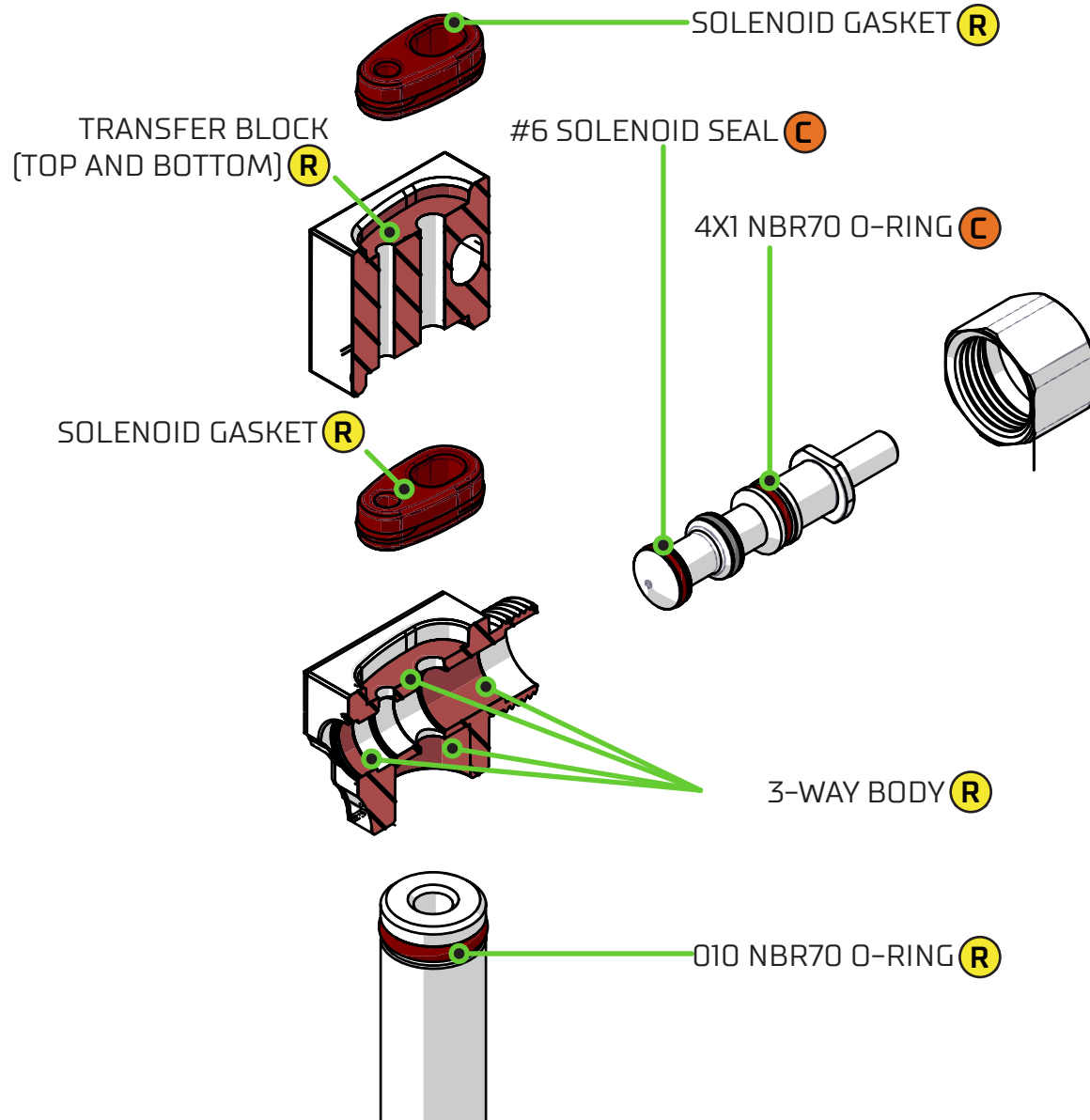
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LEAKS FROM THE 3-WAY VALVE

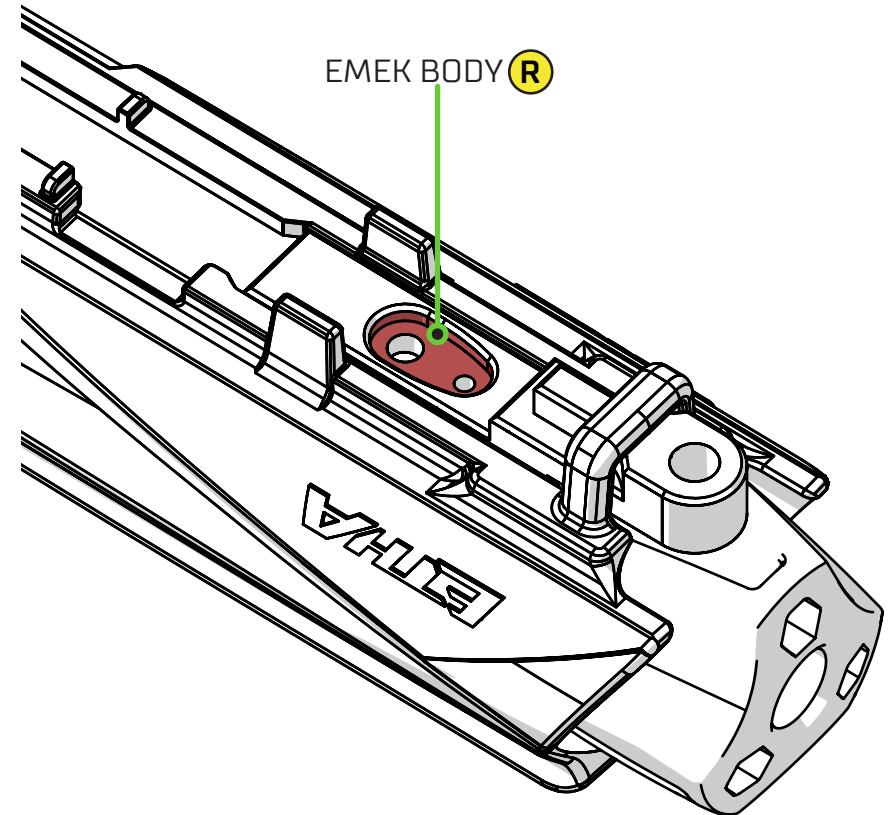
CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT **R** = RARE FAULT

3-WAY VALVE



BODY





21

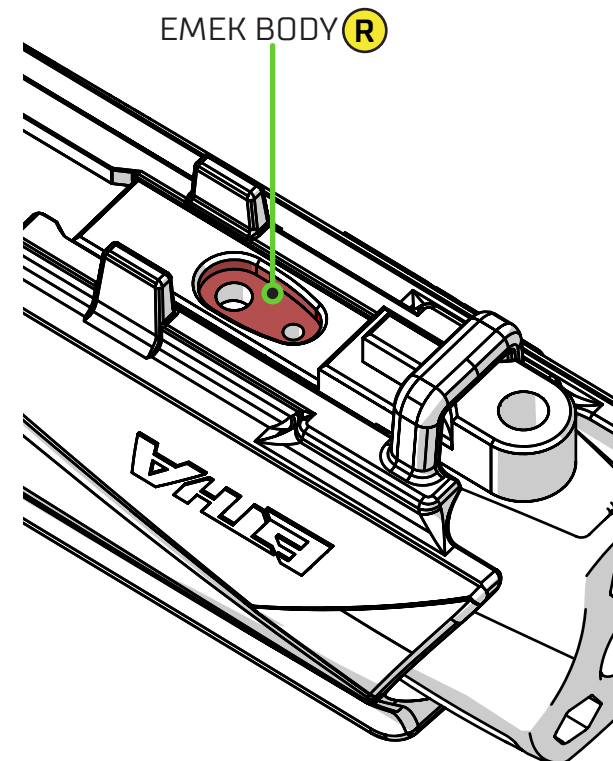
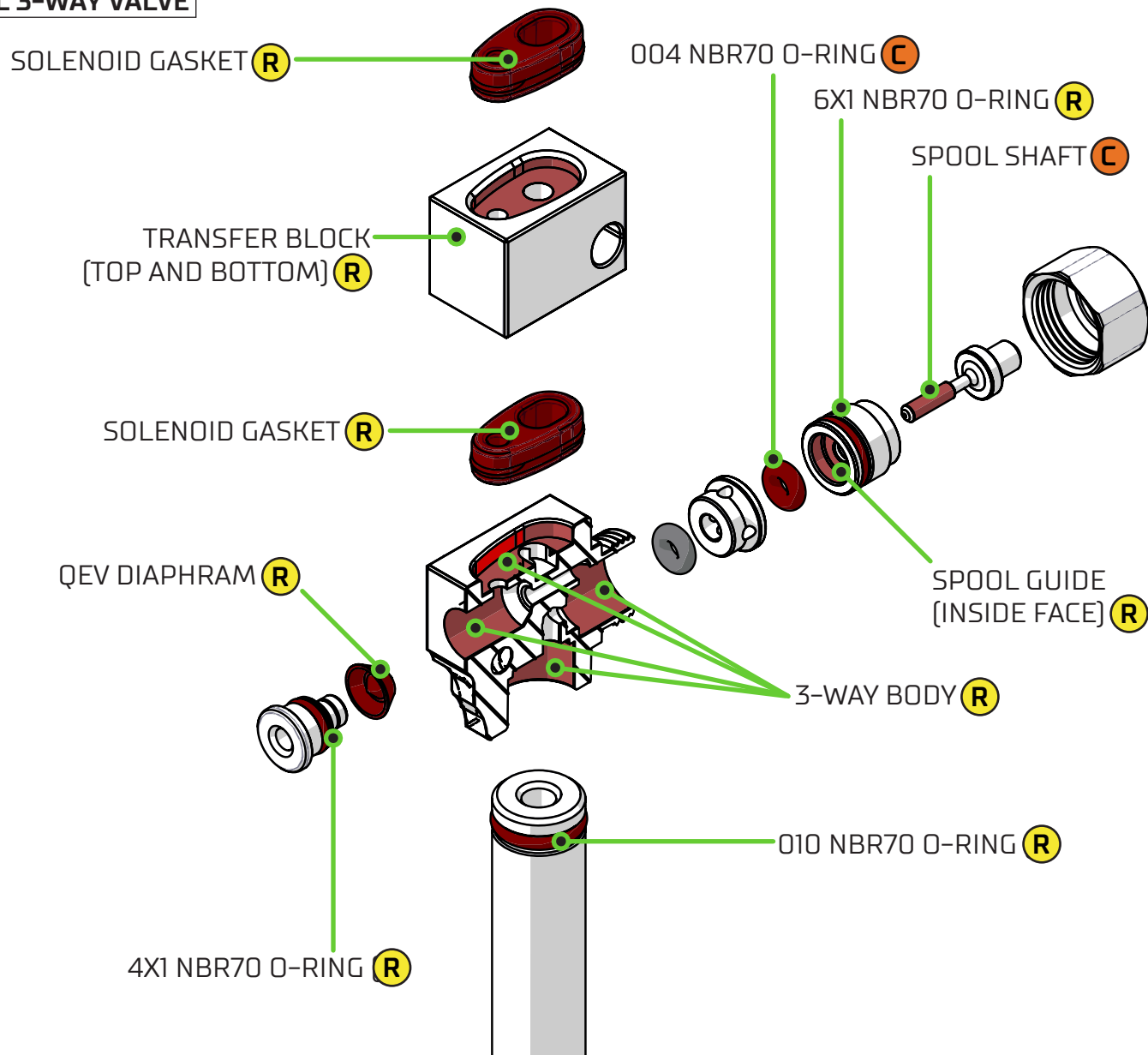
LEAKS FROM THE FL 3-WAY VALVE

CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT **R** = RARE FAULT

FL 3-WAY VALVE

BODY





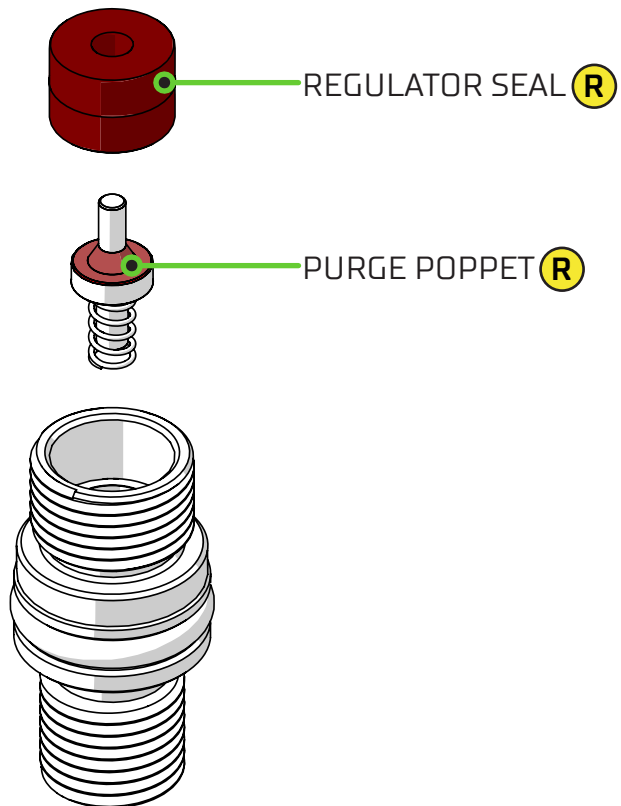
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HIGH VELOCITY

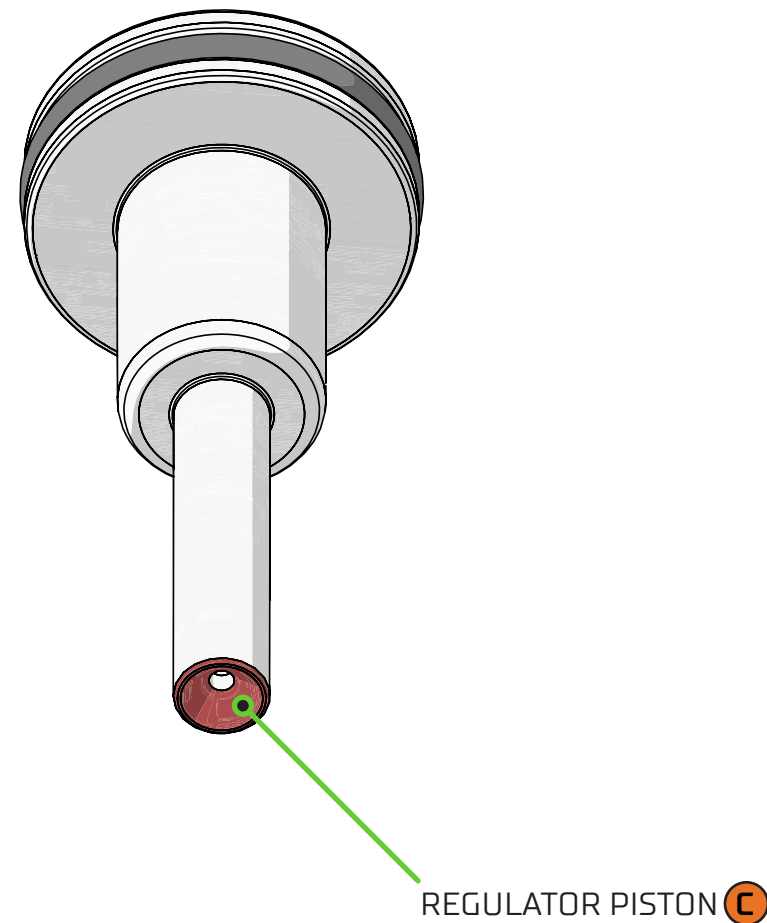
CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT **R** = RARE FAULT

REGULATOR ADJUSTER SCREW



REGULATOR PISTON



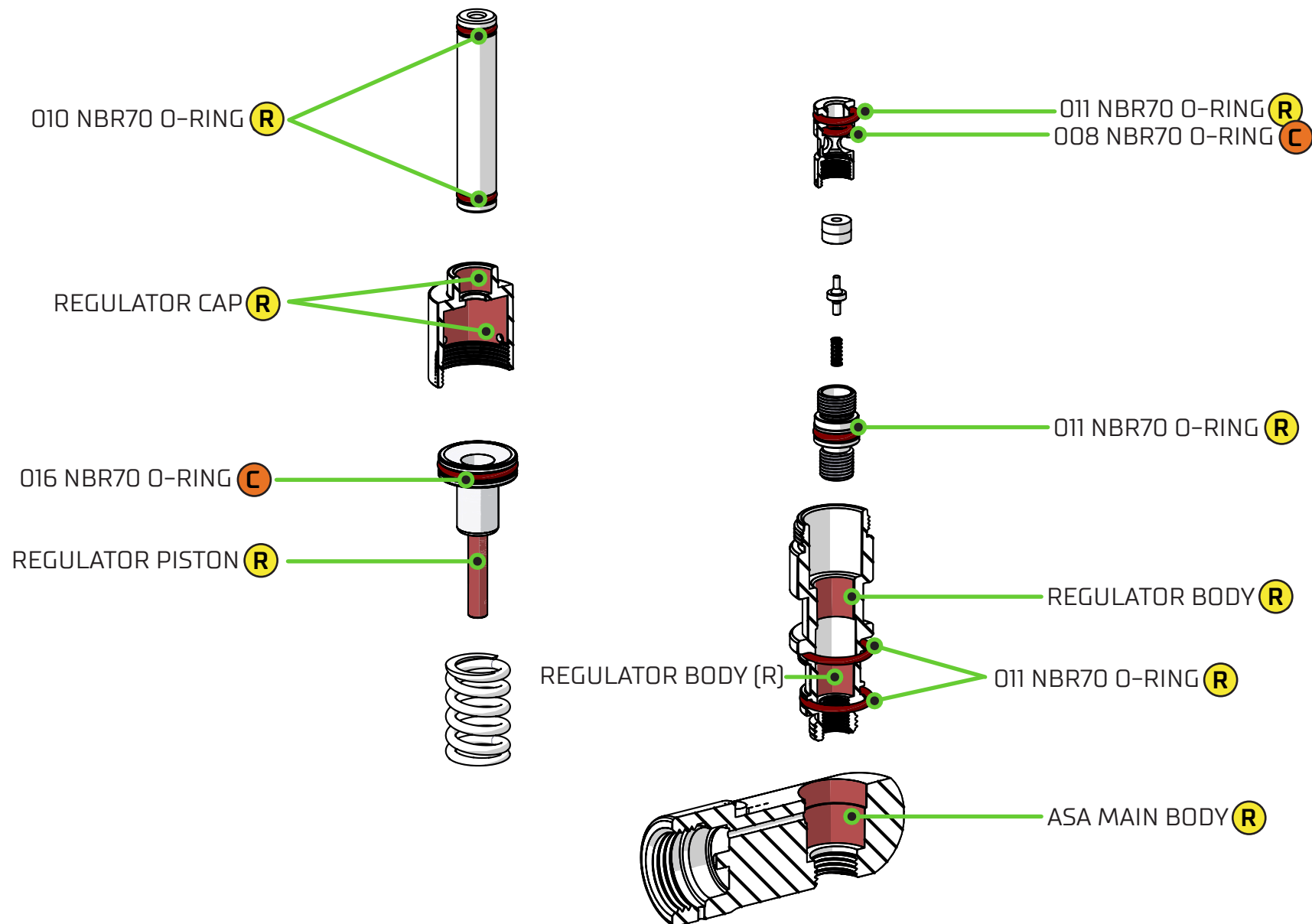


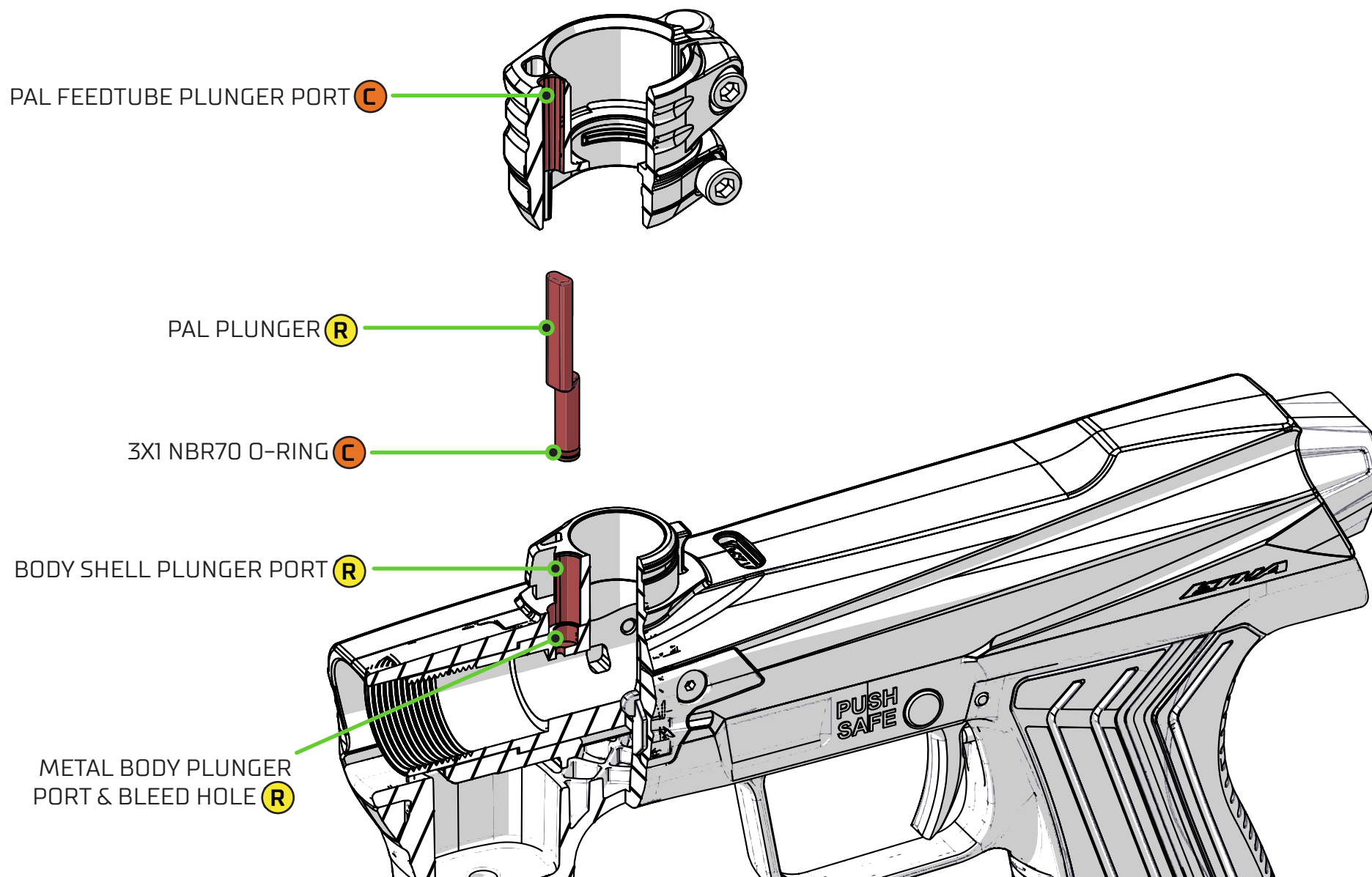
23

LEAKS FROM THE INLINE REGULATOR

CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT **R** = RARE FAULT





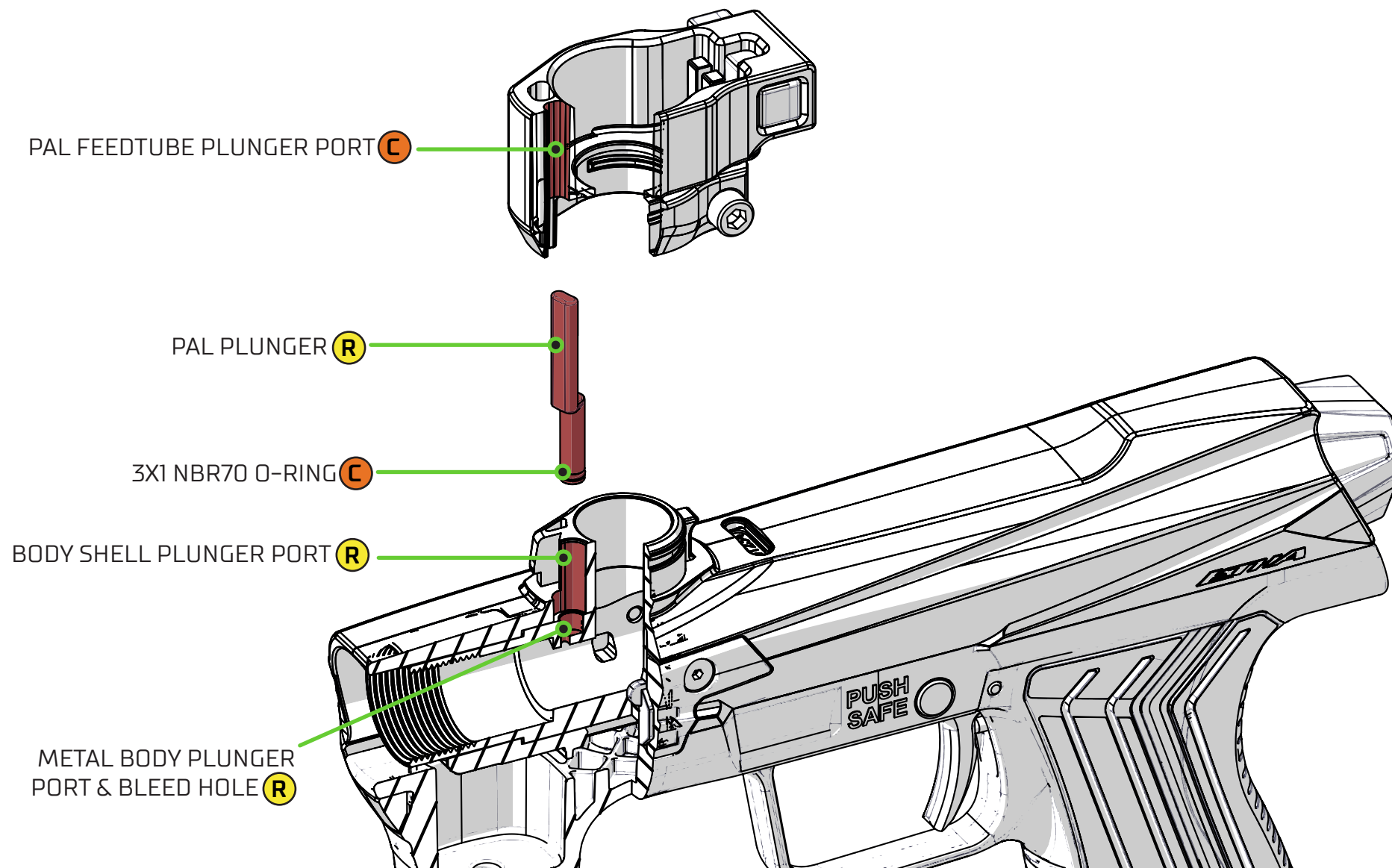


25

PAL QD LOADER NOT FEEDING

CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT **R** = RARE FAULT



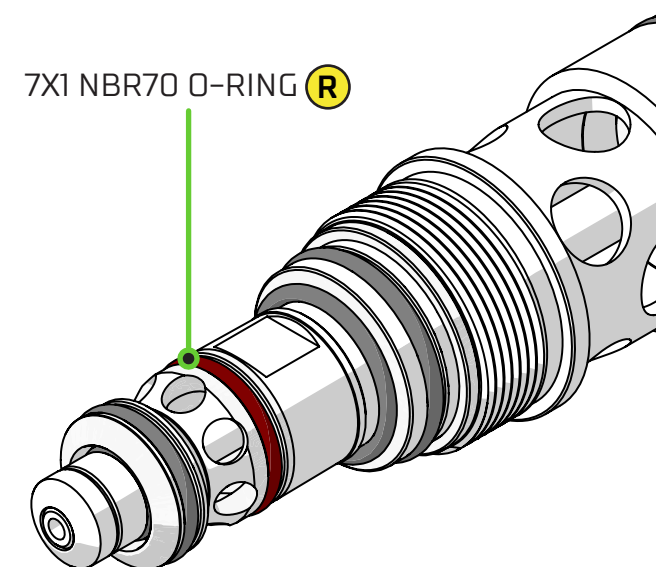
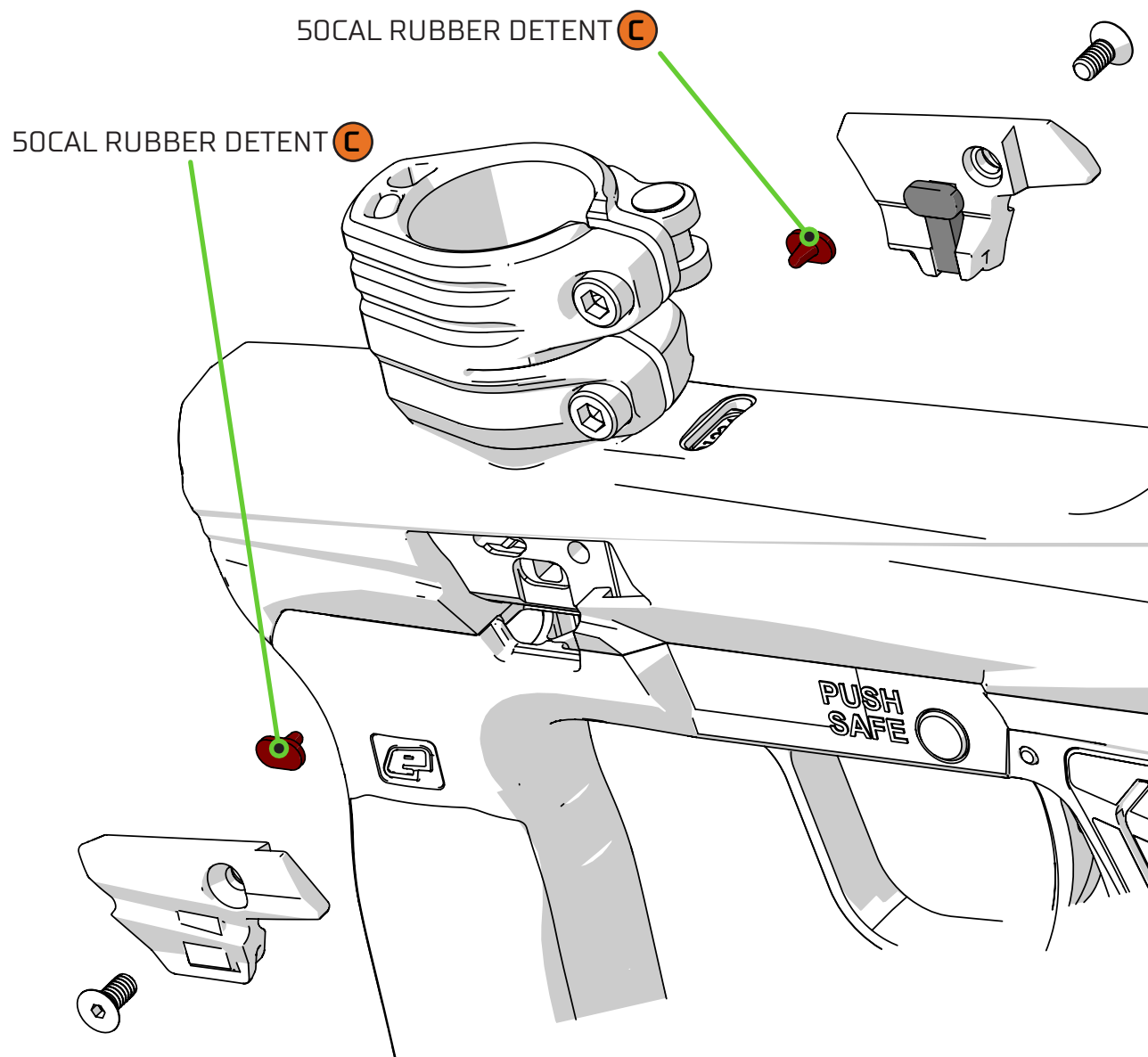


26

BREAKING PAINT IN BREECH OR BARREL

CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT **R** = RARE FAULT





27

SHOOTING MULTIPLE SHOTS WHEN TRIGGER HELD DOWN

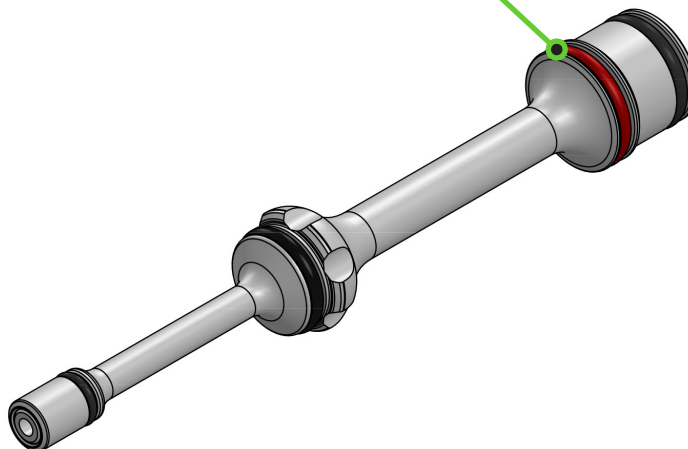
CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT **R** = RARE FAULT

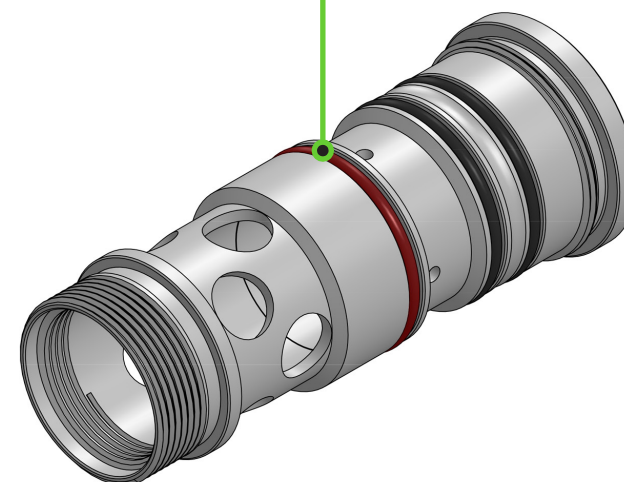
016 NBR70 O-RING **C**



012 NBR70 O-RING **R**



020 NBR70 O-RING **C**





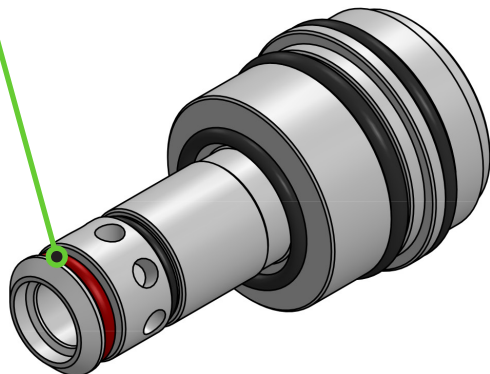
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LOUD CYCLE AND LACK OF EFFICIENCY

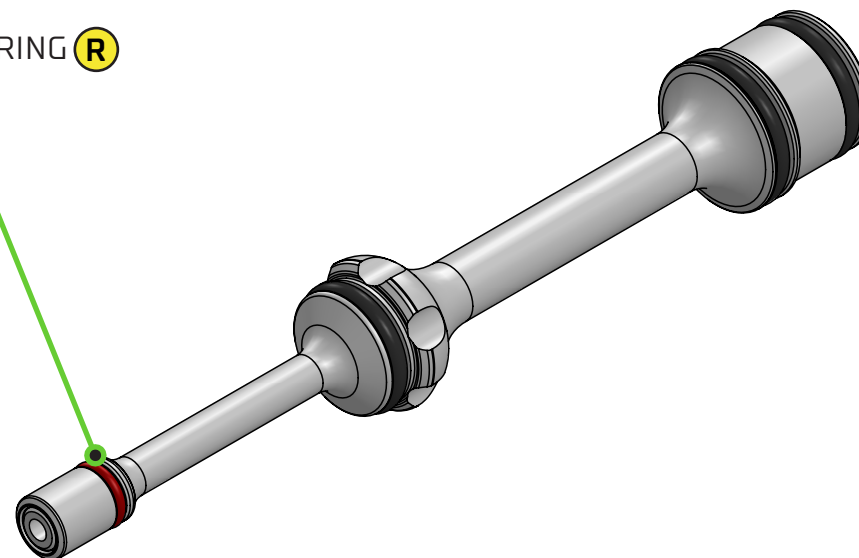
CLEAN AND CHANGE HIGHLIGHTED SEALS AND FACES

C = COMMON FAULT **R** = RARE FAULT

7X1 NBR70 O-RING **C**
[REPLACE WITH 7X1 NBR90]



3X1 NBR70 O-RING **R**





GET MORE
PLANETECLIPSE.COM

This product is covered by and/or licensed under one or more of the following patents:

G.B. Patents:

2,342,710; 2,345,953; 2,352,022; 2,391,292; 2,391,063;

U.S. Patents:

7,836,873; 7,603,995; 7,073,284; 8,104,463; 7,509,953; 7,921,839; 7,089,697; 7,866,307; 8,082,912; 7,076,906; 7,607,424; 7,980,238;
8,960,175; 8,528,877; 8,201,547; 8,397,706; 8,210,160; 7,073,284; 6,311,682; 6,748,938; 6,860,259; 6,941,693; 6,973,748; 5,881,707;
5,967,133; 6,035,843; 6,474,326; 6,637,421; 6,644,295; 6,810,871; 6,901,923; 7,121,272; 7,100,593; 7,610,908; 7,603,997; 7,946,285;
6,349,711; 7,044,119; 7,185,646; 7,461,646; 7,556,032; 7,591,262; 7,617,819; 7,617,820; 7,640,925; 7,640,926; 7,866,308;

Application numbers:

12/256,832; 12/613,958; 12/493,777; 11/654,721; 11/747,107; 12/503,504; 11/781,821; 60/832,548; 11/965,886; 10/280,115

Additional U.S. and International Patents may be pending.

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