

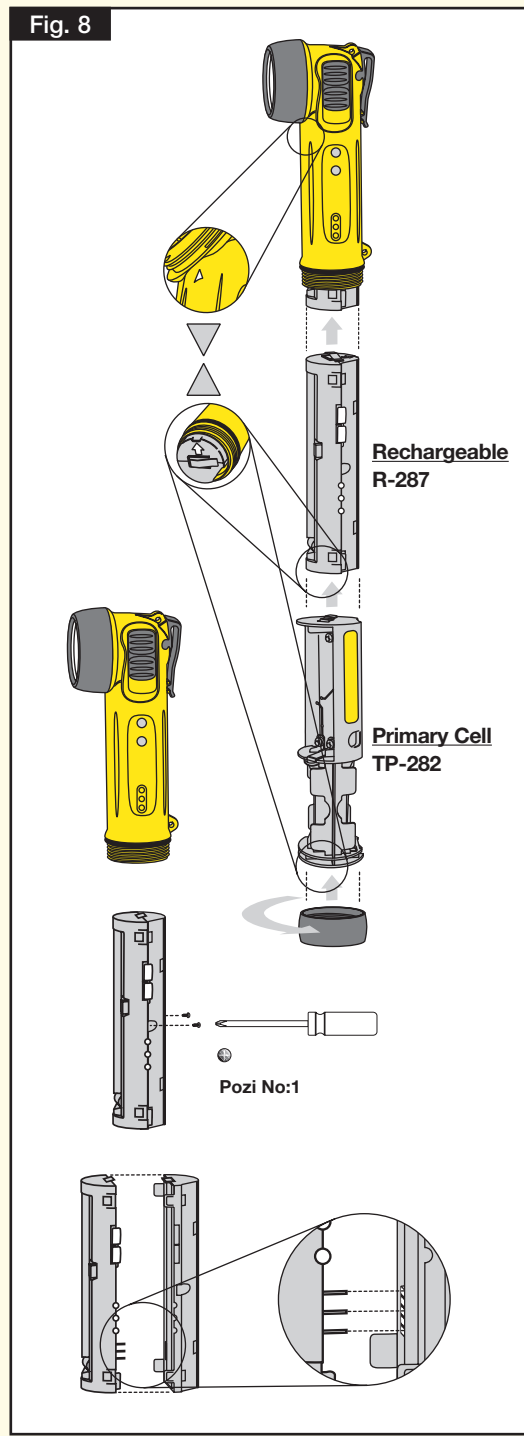
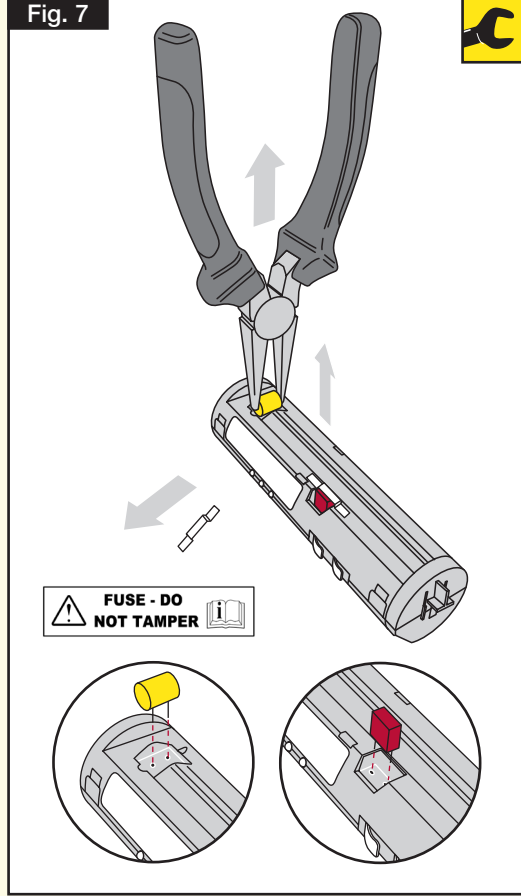
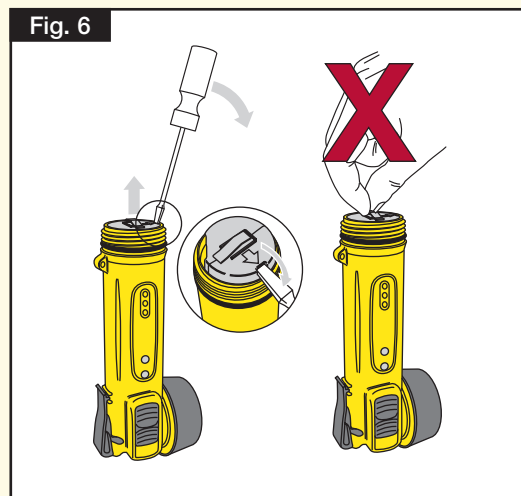
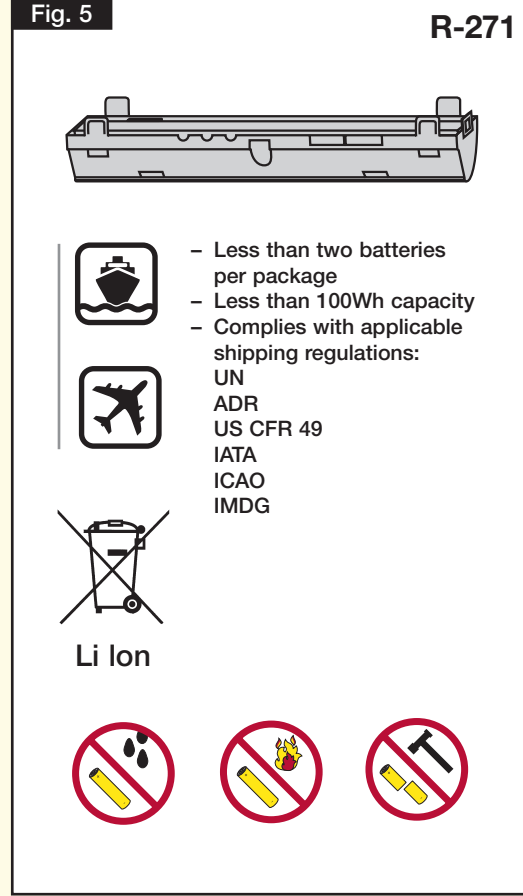
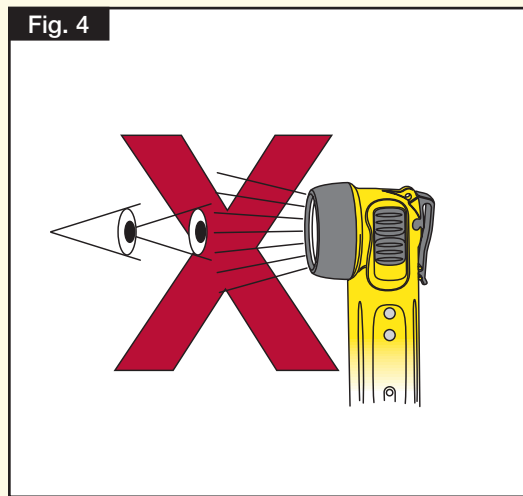
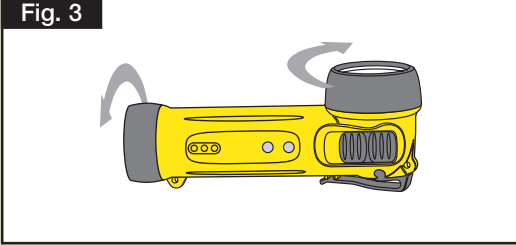
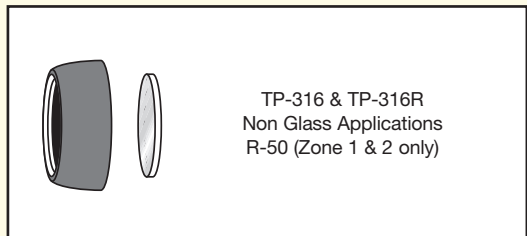
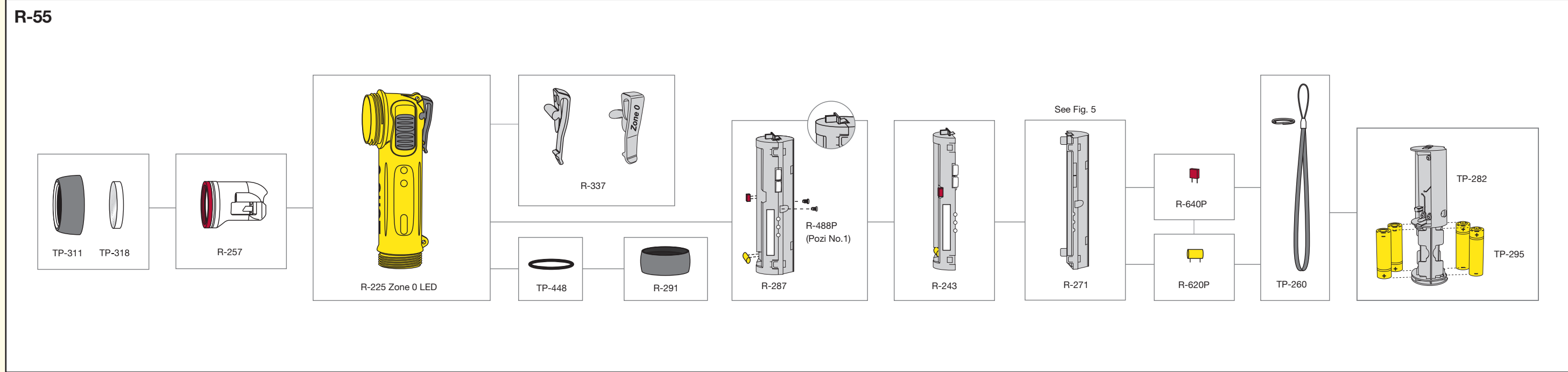
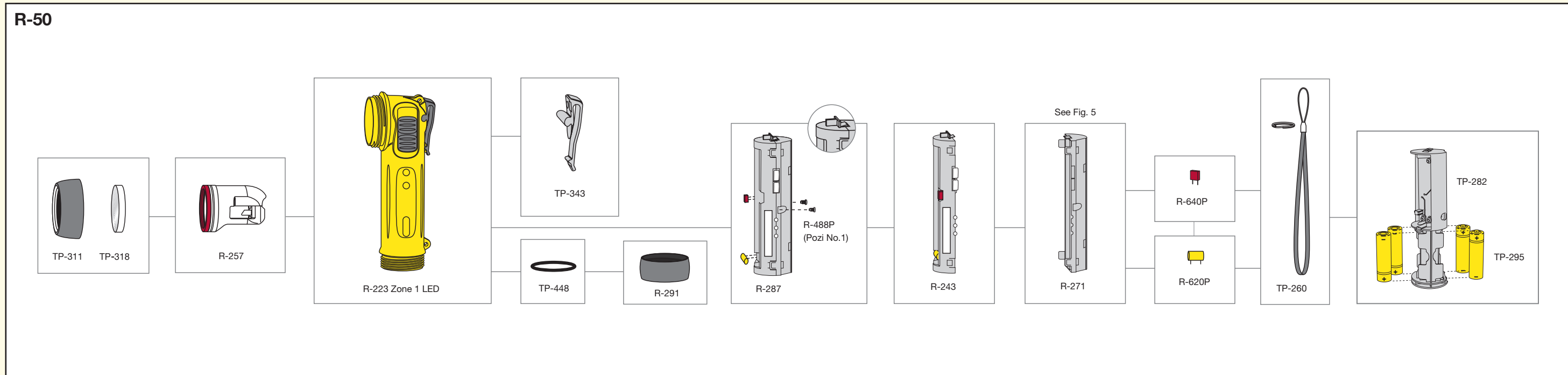
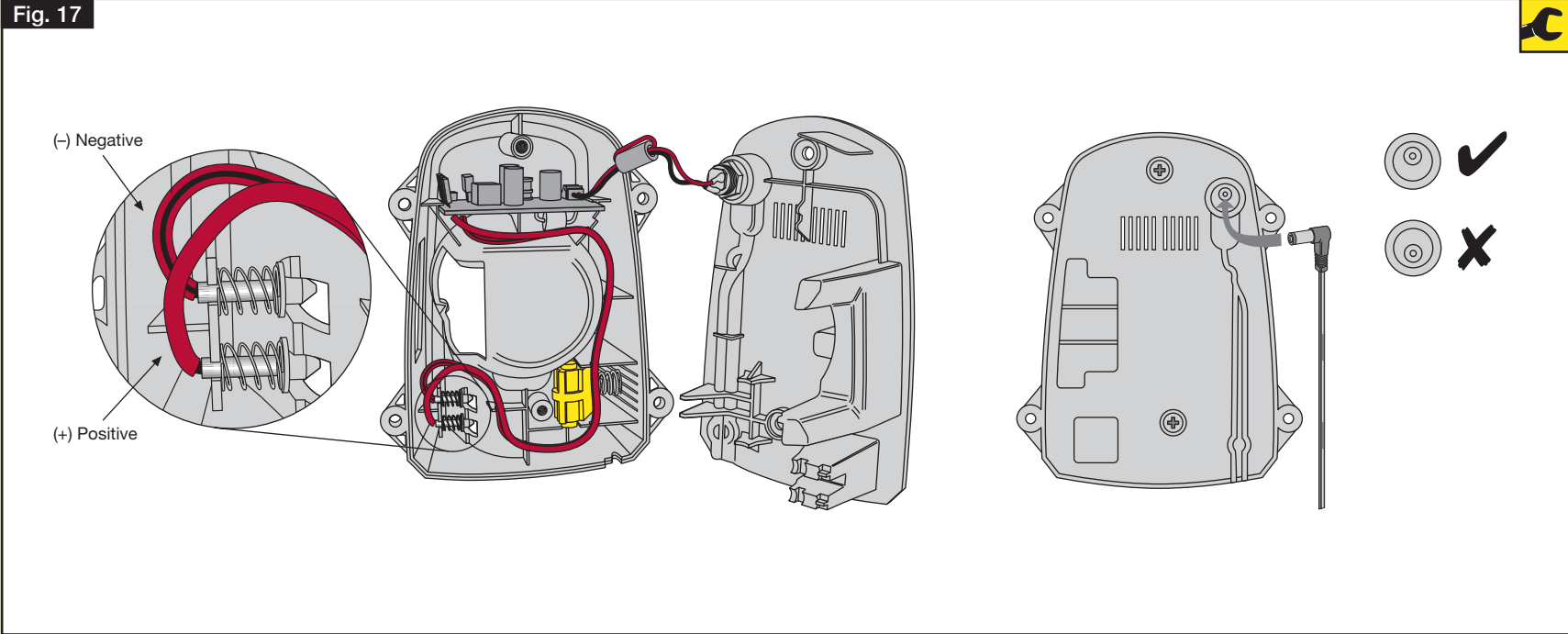
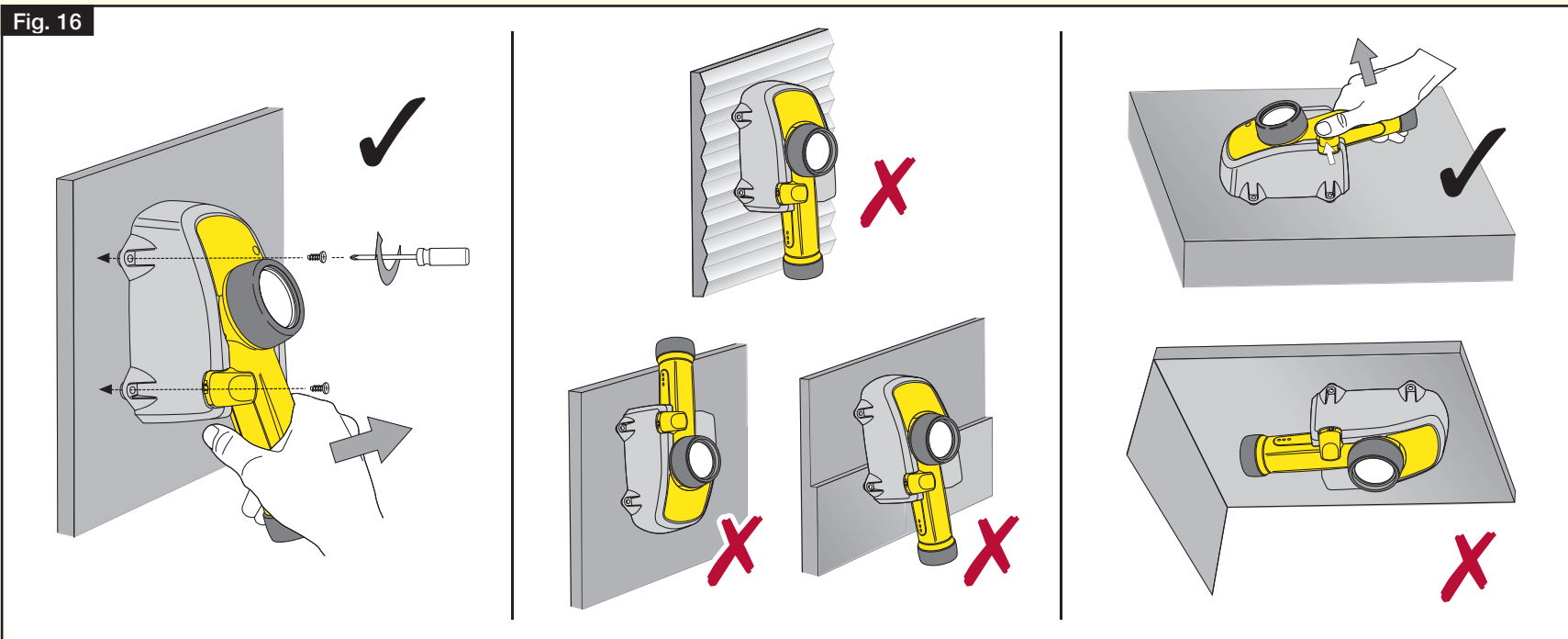
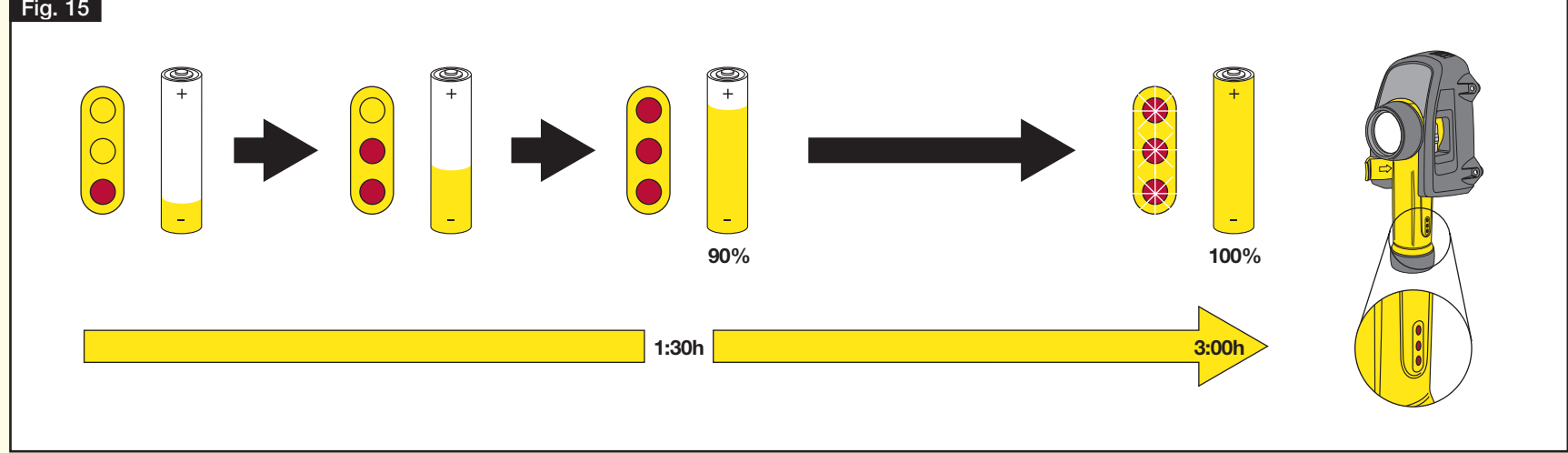
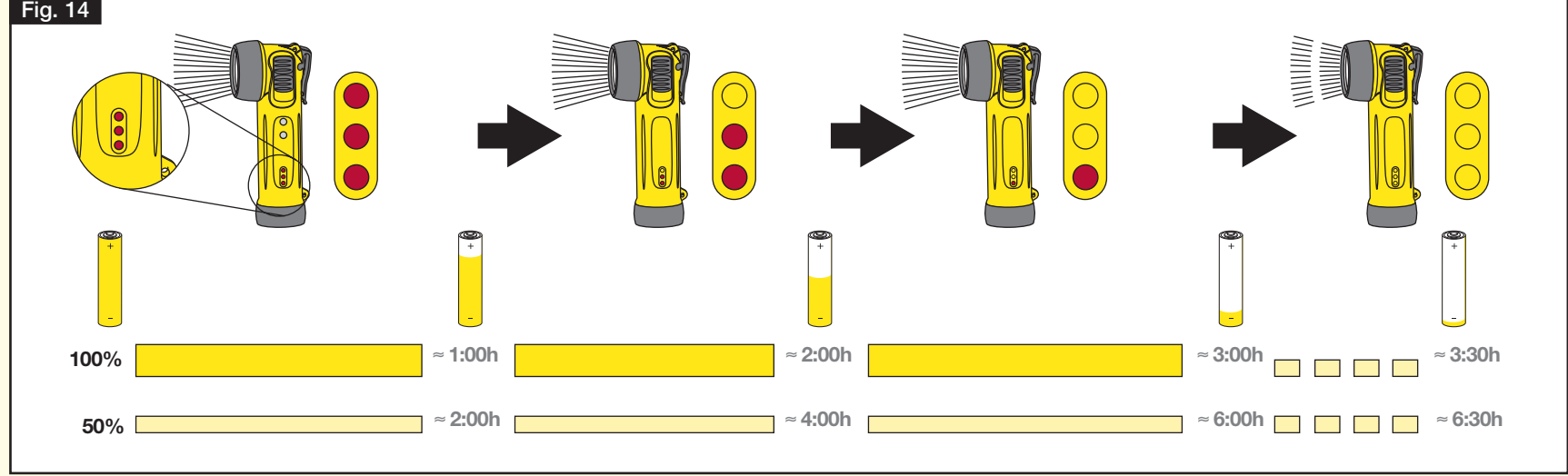
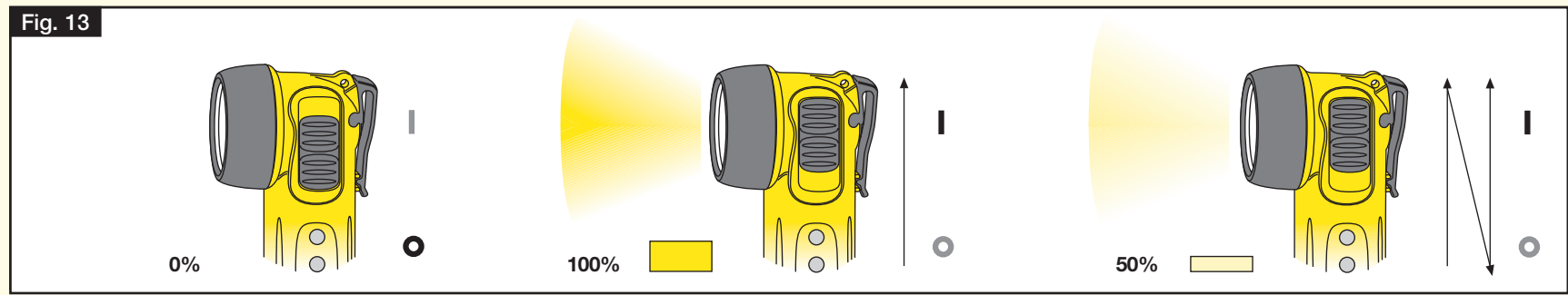
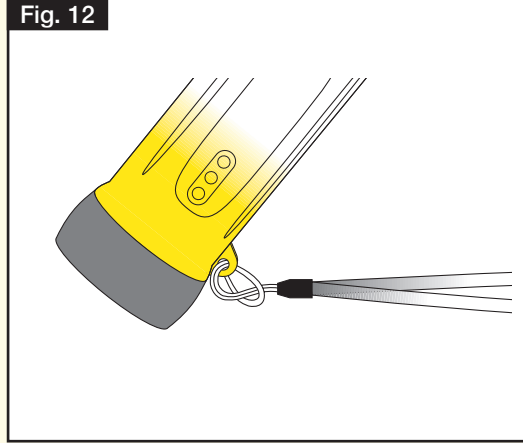
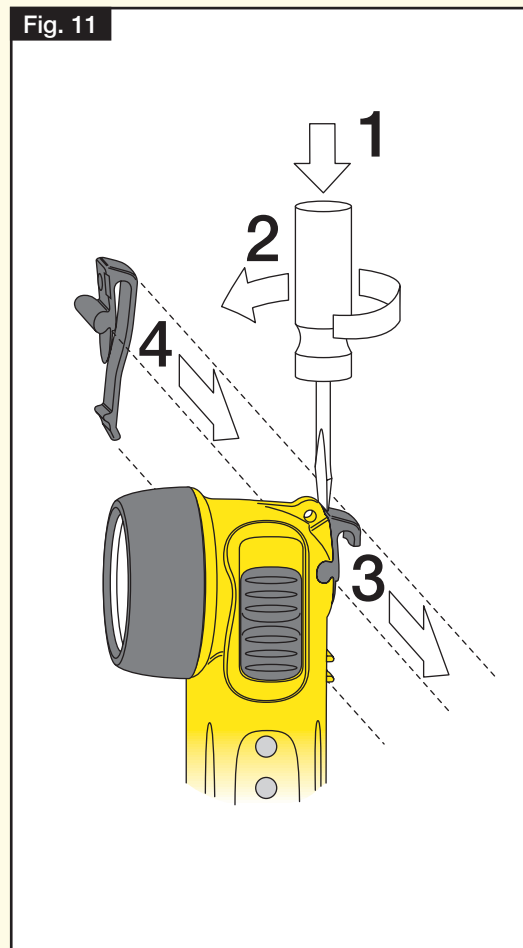
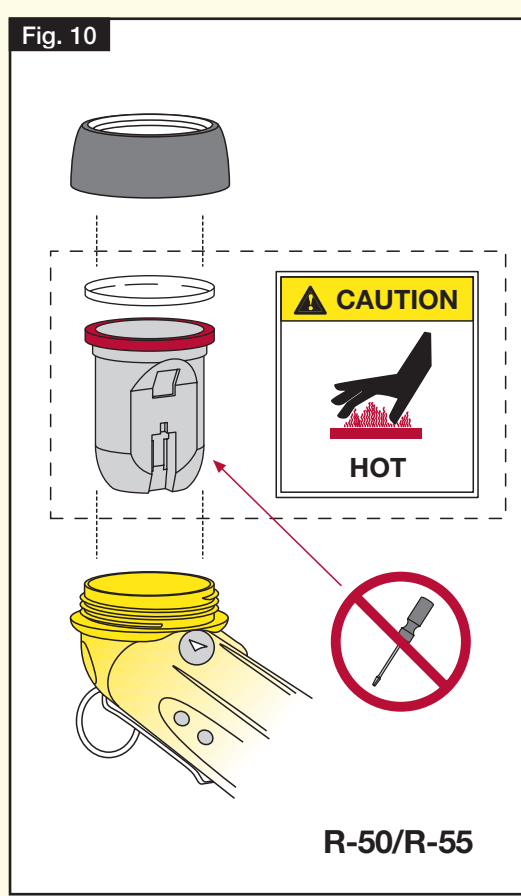


Fig. 9

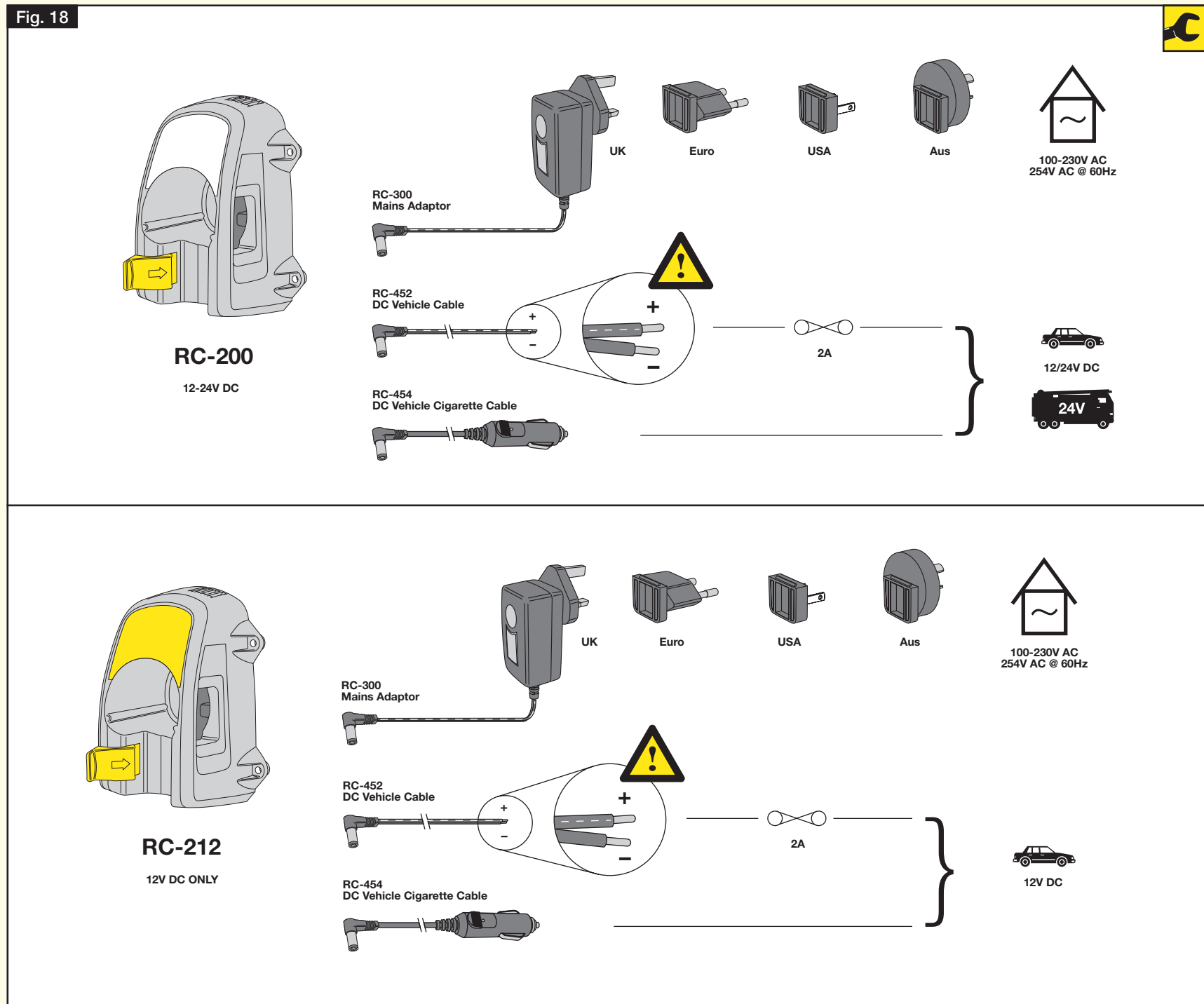
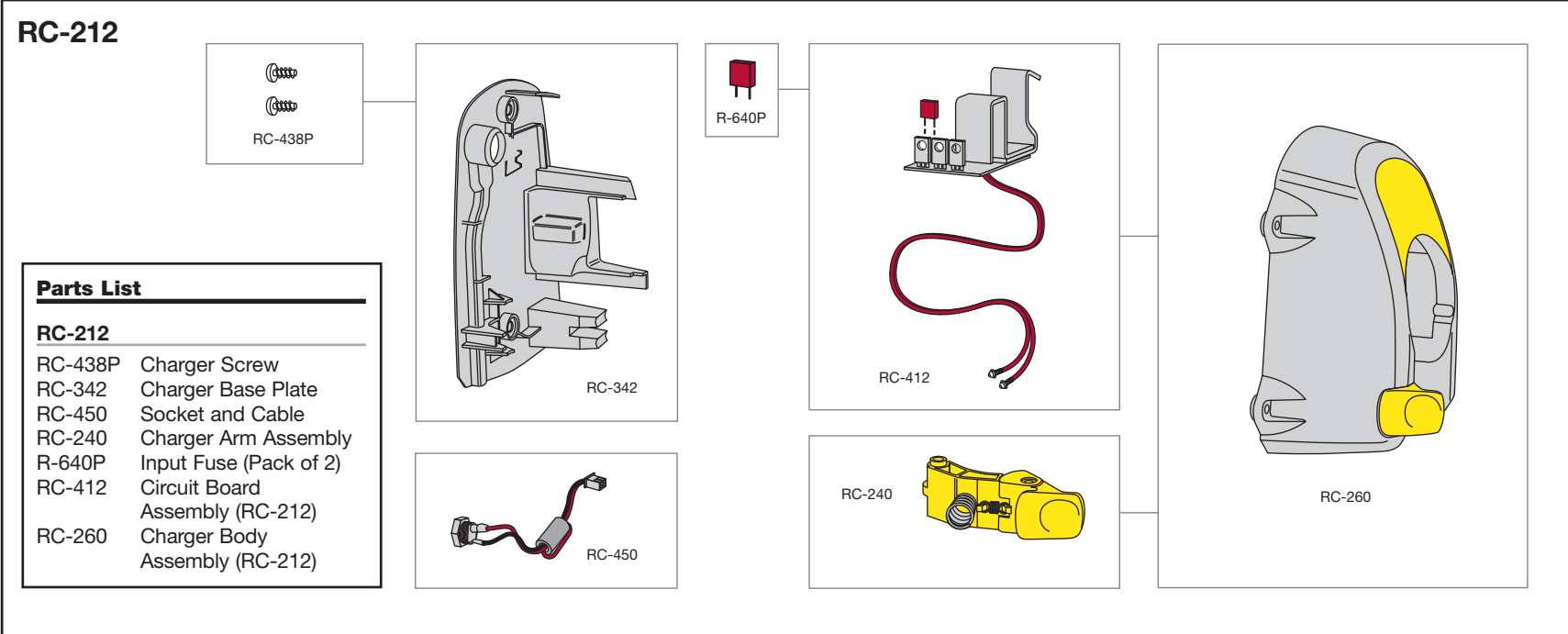
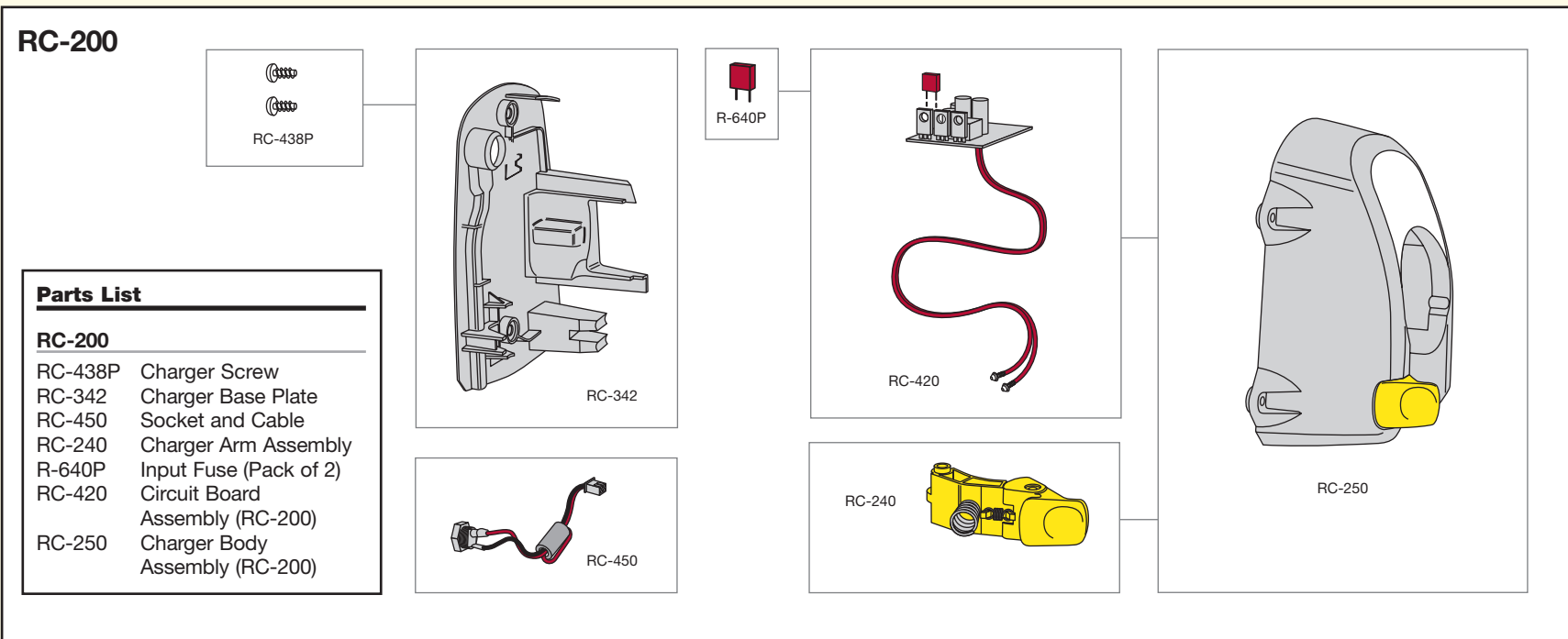
Permitted TP-282 Primary Cassette Cells

4x  AA	Woff part no. TP-285
T Class	T4
LR6/AA Alkaline Cells	Duracell Industrial, Duracell Procell, Duracell Plus, Energizer Industrial, Energizer Ultra +
R6 Zinc Cells	✓



Parts List

R-50	
TP-319	Lens Ring
TP-318	Lens Glass
TP-316	Polycarbonate Lens & Ring Kit Zone 1 & 2
TP-316R	Polycarbonate Lens & Ring Kit Red Zone 1 & 2
R-257	Heat Sink LED Assembly
R-223	R-50 Torch Body Assembly Zone 1 & 2
TP-343	Clip Moulding Zone 1 & 2
R-287	Cassette Assembly
R-243	Cassette Circuit Half
R-271	Battery Pack
R-488P	Lock Screw Cassette (pack of 2)
TP-448	Base "O" Ring
R-291	End Cap Assembly
TP-282	Primary Cell Cassette
TP-295	LR6/AA Primary Cell (pack of 4)
TP-260	Wrist Strap & Ring
R-620P	Output Fuse
R-640P	Input Fuse (pack of 2)
R-55	
TP-311	Lens Ring
TP-318	Lens Glass
R-257	Heat Sink LED Assembly
R-225	R-55 Torch Body Assembly Zone 0
TP-343	Clip Moulding Zone 0
R-287	Cassette Assembly
R-243	Cassette Circuit Half
R-271	Battery Pack
R-488P	Lock Screw Cassette (pack of 2)
TP-448	Base "O" Ring
R-291	End Cap Assembly
TP-282	Primary Cell Cassette
TP-295	LR6/AA Primary Cell (pack of 4)
TP-260	Wrist Strap & Ring
R-620P	Output Fuse
R-640P	Input Fuse (pack of 2)



GB Wolf Rechargeable Torch Range
Operation and Maintenance Instructions
Please retain – read before use

EC/EU Declaration of Conformity

The R-50 and R-55 meet all relevant provisions of the:-

- a) 94/9/EC Explosive Atmospheres (ATEX Equipment) Directive (up to 19th April 2016)
- b) 2014/34/EU Explosive Atmospheres (ATEX Equipment) Directive (from 20th April 2016)

by virtue of the issued EC/EU type examination certificate, demonstrating compliance with all relevant harmonised standards and essential health and safety requirements.

Wolf Rechargeable Torches are self contained safety torches with 3W LED light sources, moulded in high impact strength plastic and powered by a Lithium Ion battery pack (optional Primary cell cassette also available). The **R-50** is approved as Group I, M2 equipment for mining applications, Group II, Category 2 equipment for use in zones 0, 1 & 2 potentially explosive gases, vapours and mists where the T4 temperature class permits and zone 21 & 22 potentially explosive dusts where the T200°C maximum surface temperature and IIIB dust group permits.

The **R-55** is approved as Group I, M1 equipment for mining applications and Group II, Category 1 equipment for use in zone 0, 1 & 2 potentially explosive gases, vapours and mists where the T4 temperature class permits and zone 20, 21 & 22 potentially explosive dusts where the T200°C maximum surface temperature and IIIB dust group permits.

Caution – If fitting Polycarbonate lens, check Ex atmospheres for compatibility.

Approval Codes/Certification:

R-50 Zone 1, 21  I M2/II 2GD Ex Ib I Mb/II C T4 Gb -40°C<Tas<40°C
Ex IIIB T200°C Db IP67

R-55 Zone 0, 20  I M1/II 1GD Ex ia I Ma/II C T4 Ga -40°C<Tas<40°C
Ex IIIB T200°C Da IP67

Notified Body: Baseefa Ltd. Rockhead Business Park,
Staden Lane, Buxton, SK17 9JN, UK.
Notified body number: 1180

EC/EU Type examination certificate: **Baseefa05ATEX0069X**

'X' condition – Dust layers must be prevented from building up on the torch and it must not be left energised and unattended in Zone 20 areas.

Harmonised standards applied:
EN 60079-0:2012 +A11:2013, EN 60079-11:2012.
Ingress protection level: **IP67** to EN60529:1992.
The R-50, R-55 with RC-200 or RC-212 is certified compliant with the:-
a) 2004/108/EC EMC Directive (up to 19th April 2016)

b) 2014/30/EU EMC Directive (from 20th April 2016)
To the following harmonised standards BS EN 61000-6-3:2007 +A1: 2011 and BS EN 61000-6-2:2005 and comply with the requirements of the 2004/104/EC Automotive EMC Directive for use in motor vehicles to the following harmonised standards BS EN 50498:2010.

The RC-300 Mains Adaptor is certified compliant with the:-

- a) 2004/108/EC EMC Directive and 2006/95/EC Low Voltage Directive (up to 19th April 2016)
- b) 2014/30/EU EMC Directive and 2014/35/EU Low Voltage Directive (from 20th April 2016)

To the following harmonised EMC standards EN 61204-3:2000 Class B, EN 55022:2010 +AC:2011 Class B, EN 61000-3-2:2006 +A2:2009, EN 61000-3-3:2008 and EN 55024:2010 and the following harmonised LVD standards EN 60950-1:2006 +A2:2013.

 Alex Jackson - Managing Director
Wolf Safety Lamp Company Ltd.

Use of the Wolf Rechargeable Torch

A damaged Wolf Rechargeable torch should be repaired in accordance with these instructions, before putting back into service.

 Repairs only to be carried out by competent persons

PRECAUTIONS: See Figs. 1, 2, 3, 4, 5, 6, 10 & 16

Before use. Charge for 3 hours minimum.
Ensure torch lens ring and end cap are fully tight at all times. (Fig. 3)
Duration in High Power mode = 3.5 hours
Duration in Low Power mode = 6.5 hours

Deep Discharge Protection: Circuitry will automatically switch the torch off once the battery reaches a pre-determined low voltage.
The torch must be re-charged before further use.

Emergency Lighting Mode: The emergency lighting function switches the torch on when a power failure to the charger occurs.

Cleaning: Use a mild soap and water and soft brush only.

Storage: Do not store torch or battery below -20°C.

If torch fails to light or;
If indication on charge shows top and bottom indicators only:

A. Ensure torch lens ring and end cap are fully tight at all times (Fig. 3)

- B. Place on charge check for indication, remove and switch on.
- C. Clean charge rivets, check end cap is fully tightened.
- D. Remove cassette (Fig. 6), inspect contacts, test continuity of the fuses, replace as required (competent personnel only; Fig. 7).
- E. Re fit cassette, repeat (A) and switch on.

The **R-271 Battery** utilizes a two cell Lithium Ion system with a life of up to 500 full charge/discharge cycles (to 70% original capacity), and incorporates an integral encapsulated battery protection circuit.

Replace the **R-271 Battery** when the discharge duration is significantly shorter than the durations shown above.

The TP-282 Primary Cell Cassette. An alternative primary cell cartridge is also certified safe for use in the torch. **Use only approved primary cells TP-295 for a T4 temperature class (Fig. 9)**

Wolf Chargers: RC-200 (12-24V) and RC-212: (12V) A red LED indicator shows power to the charger. Charging is fully managed to eliminate battery memory. Charge is removed once the battery is fully charged, battery voltage is then monitored; a top-up charge is applied as necessary (typically applying a trickle charge every 7 days).

- Do not charge in Hazardous Area.
- Charger contacts are low voltage output and short circuit protected.
- Charger operating ambient: +10°C to +25°C.
- Charger ingress protection IP20, protect from dirt and moisture.
- Do not cover ventilation slots.

Warning RC-452: risk of short circuit if polarity incorrect, (See Fig. 18)

Peak Current (during 3hrs charge period)	=1.5A
Peak Current (standby – fully charged)	=0.08A
Peak Current (no torch in charger)	=0.03A

Output Voltage does not exceed 14V; (U₀=14V)

 **Warning:**
USE ONLY WOLF CHARGERS WITH THESE PRODUCTS (AS SHOWN IN FIG. 18)
USE ONLY WOLF GENUINE REPLACEMENT PARTS.

The Wolf Safety Lamp Co. Ltd has a policy of continuous product improvement. Changes in design details may be made without prior notice.

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