Fig. 1

EN IEC 60079:–

IECEx Scheme Certification

Cert Number: **IECEx BAS 06.0001X**

Models: R-50
Ex ib op is IIC T4 Gb IP67 / Ex ib op is IIIB T200°C Db
Ex ib op is I Mb
Temperature Ambient: -40°C to +40°C

Models: R-55
Ex ia op is IIC T4 Ga IP67 / Ex ia op is IIIB T200°C Da
Ex ia op is I Ma
Temperature Ambient: -40°C to +40°C

IEC Standards Applied:
IEC 60079-0:2011, IEC 60079-11:2011,
IEC 60079-28:2015

Ingress Protection Level:
IP67 to IEC 60529:2001

Fig. 2

Fig. 3

Fig. 4

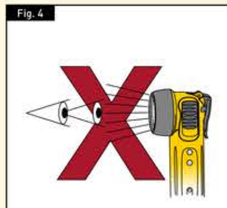


Fig. 5

Fig. 6

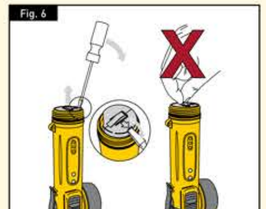


Fig. 7

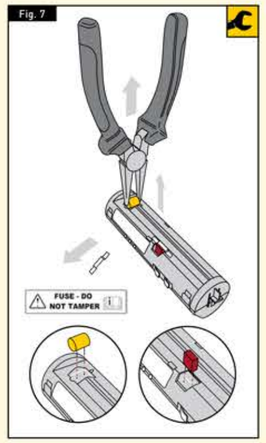


Fig. 8

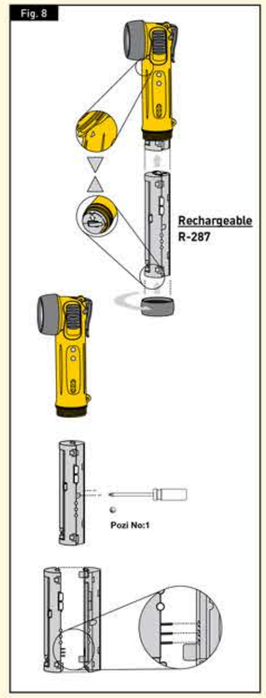


Fig. 9

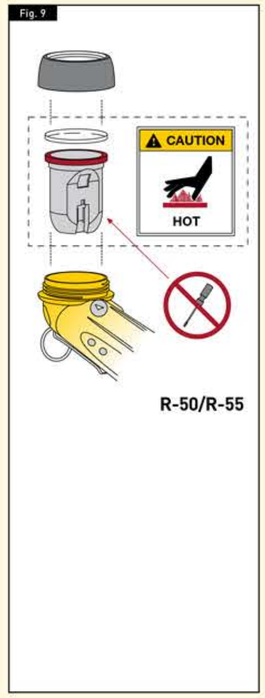


Fig. 10

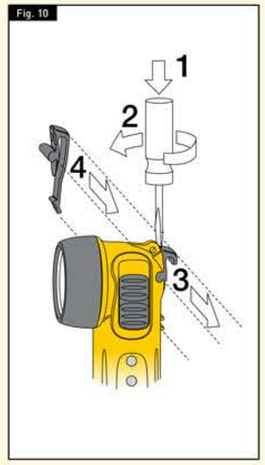


Fig. 11

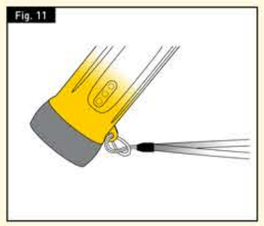


Fig. 12

Fig. 13

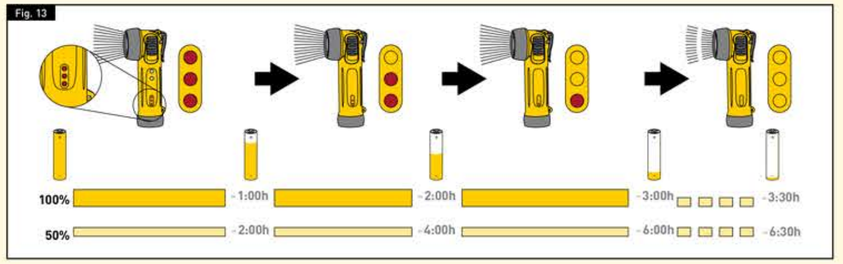


Fig. 14

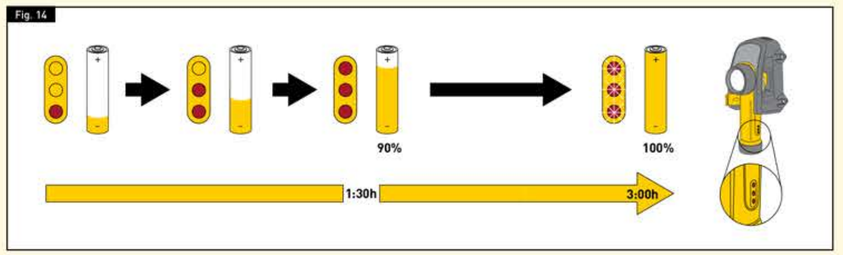


Fig. 15

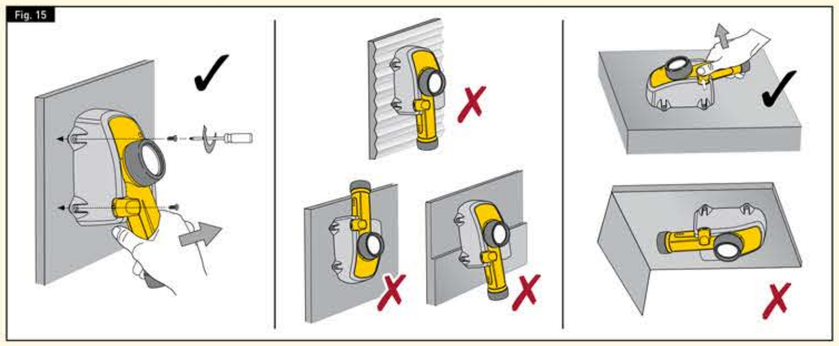
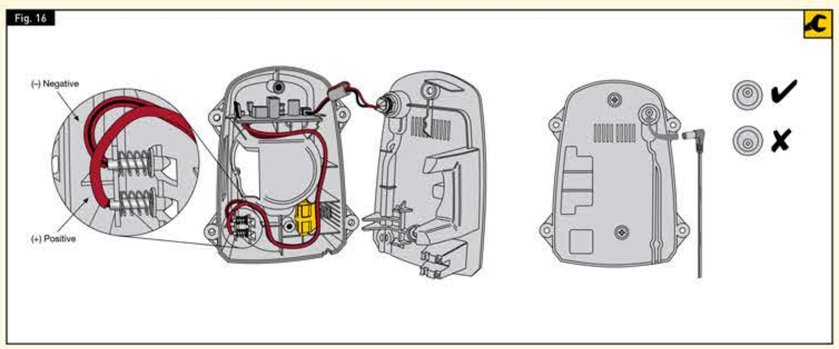
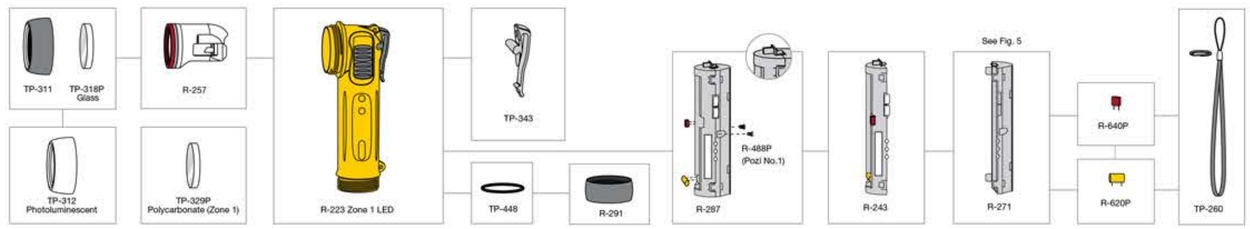


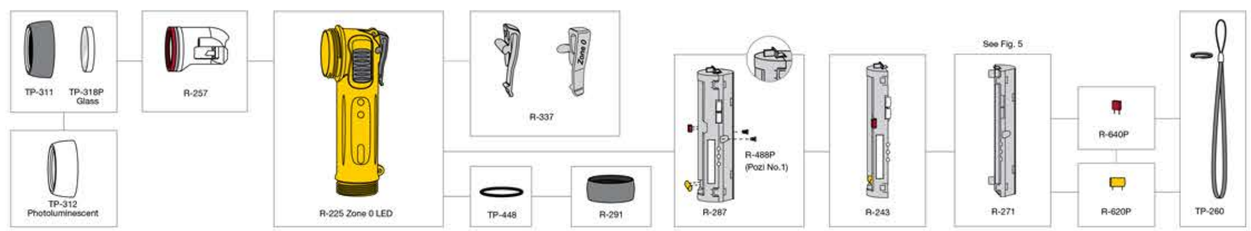
Fig. 16



R-50



R-55



Parts List

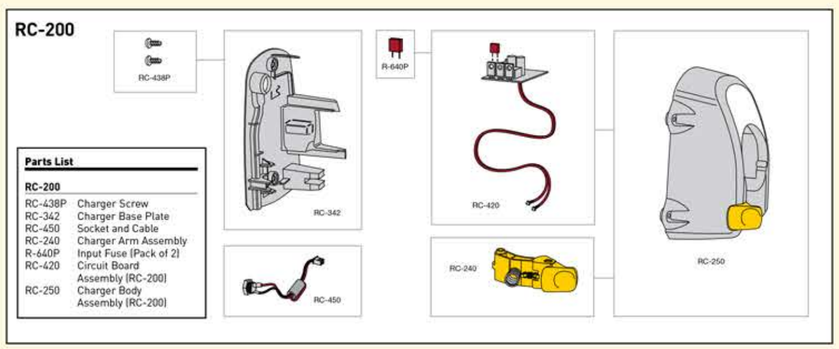
R-50

TP-311	Lens Ring
TP-318P	Lens Glass
TP-329P	Polycarbonate Lens Zone 1 & 2
TP-312	Photoluminescent Lens Ring
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-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-318P	Lens Glass
TP-312	Photoluminescent Lens Ring
R-257	Heat Sink LED Assembly
R-225	R-55 Torch Body Assembly Zone 0
R-337	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-295	LR6/AA Primary Cell (pack of 4)
TP-260	Wrist Strap & Ring
R-620P	Output Fuse
R-640P	Input Fuse (pack of 2)

RC-200

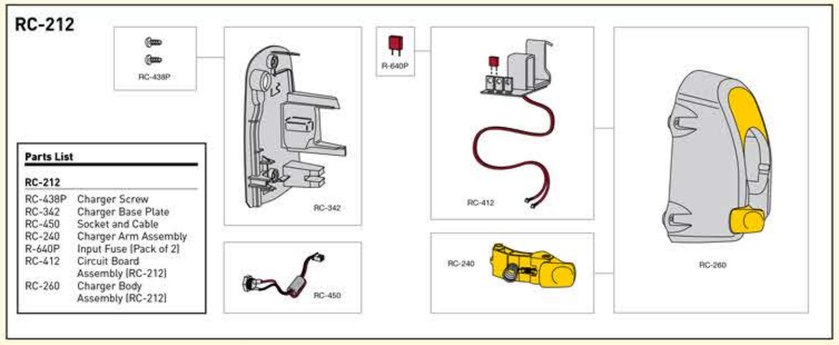


Parts List

RC-200

RC-438P	Charger Screw
RC-342	Charger Base Plate
RC-450	Socket and Cable
RC-240	Charger Arm Assembly
R-640P	Input Fuse (Pack of 2)
RC-420	Circuit Board Assembly (RC-200)
RC-250	Charger Body Assembly (RC-200)

RC-212

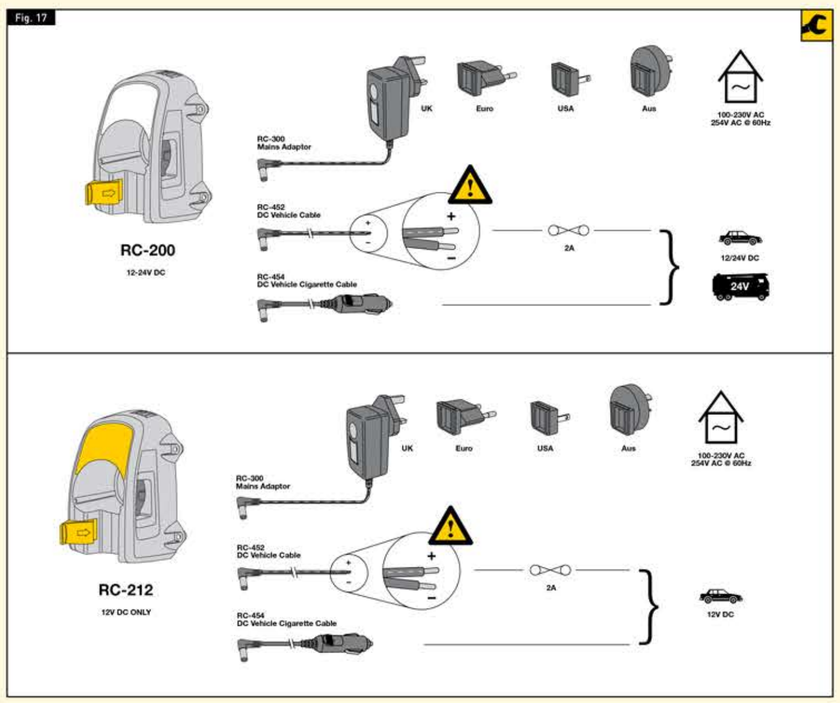


Parts List

RC-212

RC-438P	Charger Screw
RC-342	Charger Base Plate
RC-450	Socket and Cable
RC-240	Charger Arm Assembly
R-640P	Input Fuse (Pack of 2)
RC-412	Circuit Board Assembly (RC-212)
RC-260	Charger Body Assembly (RC-212)

Fig. 17



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

EU Declaration of Conformity

The R-50 and R-55 meet all relevant provisions of the 2014/34/EU Explosive Atmospheres (ATEX Equipment) Directive by virtue of the issued 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 zone 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 ⟨Ex⟩ I M2/II 2GD Ex ib op is I Mb/IIC T4 Gb (-40°C≤Ta≤+40°C) Ex ib op is IIIB T200°C Db IP67

R-55 Zone 0, 20 ⟨Ex⟩ I M1/II 1GD Ex ia op is I Ma/IIC T4 Ga (-40°C≤Ta≤+40°C) Ex ia op is IIIB T200°C Da IP67

Notified Body: **SGS FIMKO OY** P.O. Box 30 (Särkiniementie 3) 00211 HELSINKI, Finland.
Notified body number: **0598**

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, EN 60079-28:2015.

Ingress protection level: **IP67** to EN60529:1992.

The R-50, R-55 with RC-200 or RC-212 is certified compliant with the 2014/30/EU EMC Directive to the following harmonised standards BS EN 61000-6-3:2007 +A1: 2011 and BS EN 61000-6-2:2005 and the requirements of the Automotive harmonised standard BS EN 50498:2010.

The RC-300 Mains Adaptor is certified compliant with the 2014/30/EU EMC Directive and 2014/35/EU Low Voltage Directive to the following harmonised EMC standards EN 61204-3:2000 Class B, EN 55022: 2012 +AC: 2013 Class B, EN 61000-3-2:2014, EN 61000-3-3:2013 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.

Photobiological safety

R-50 and R-55 are risk group 1 – no photobiological hazard under normal behavioural limitations.

Repairs only to be carried out by competent persons

PRECAUTIONS: See Figs. 1, 2, 3, 4, 5, 6, 9 & 15

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 = 2.5 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.

The torch must be placed in the charger switched 'ON'.

Lamp Replacement: (Fig. 9).

Fuse Replacement: (Figs. 4 & 7).

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

Do not immerse.

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 utilises 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.

Recharge every six months in storage.

Battery Information: (Fig. 5), Extraction: (Fig. 6), Connections (Fig. 8).

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).

Charge Indication: (Fig. 14), Charger Connection Options: (Fig. 17)

- 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. 17)

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. (Uo=14V)	

Warning:

USE ONLY WOLF CHARGERS WITH THESE PRODUCTS (AS SHOWN IN FIG. 17)
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.

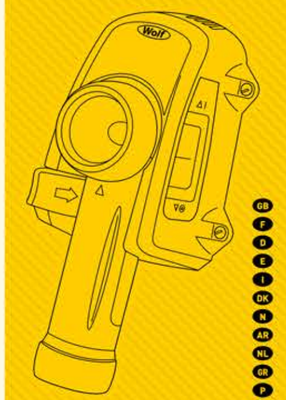
Wolf

ATEX RECHARGEABLE TORCH

R-50 and R-55

ATEX and IECEx certified for explosive atmospheres

Operation and Maintenance Instructions



GB F D E I DK N AR NL GR P RUS J POL