

VANGUARDIAN ALARM.

VEHICLE ANTI-THEFT ALARM

MODEL: VG-1D, VG-1S, VG-1D-2S, VG-1D-1S, VG-2S, VG-2D, VG-2D-2S, VG-1D-4S, VG-3D-2S, VG-3D, VG-3S, VG-2D-3S, VG-4D-2S, VG-2D-4S, VG-4D, VG-6S, VG-1MB-AP

INSTRUCTION MANUAL AND REGULATORY COMPLIANCE DOCUMENTATION

MANUFACTURER INFORMATION

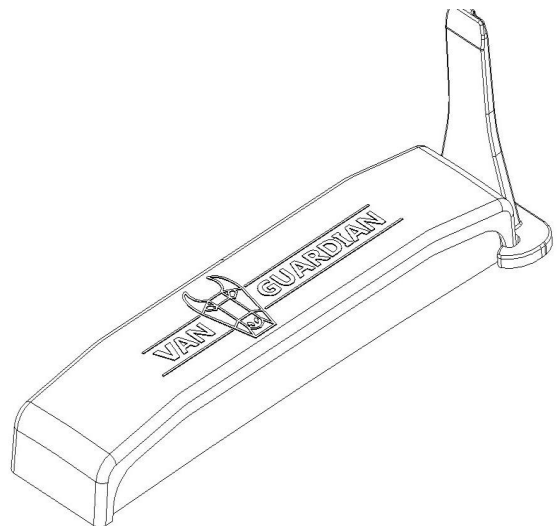
Manufactured by: Protek One Ltd, Unit 1, Orbital Industrial Park

LEEDS LS10 1AG

Trademark: Vanguardian

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1. INTRODUCTION AND SAFETY INFORMATION

Thank you for purchasing the Vanguardian alarm, a visible deterrent, and delivering a powerful, pre-emptive alarm that activates on contact- stopping thieves in their tracks- before damage occurs, safeguarding you, your assets and belongings inside.

IMPORTANT SAFETY WARNINGS:

- Read all instructions carefully before installation and use
- Keep this manual for future reference
- Follow all warnings and instructions marked on the product
- Do not attempt to disassemble or repair the device
- Use only the specified battery type (3 × AAA 1.5V DC & 27A alkaline batteries)
- Dispose of batteries in accordance with local regulations
- Keep the device away from heat sources

2. PRODUCT DESCRIPTION AND SPECIFICATIONS

The Vanguardian Alarm is a wireless anti-theft alarm designed specifically for Vehicle and Domestic applications.

TECHNICAL SPECIFICATIONS:

Model: VG 2001 Vanguardian Dual Alarm

Colour: Black

Material: ABS (Recyclable)

Dimensions: H 37mm × W 57mm × L 260mm

Weight: 0.320kg

Power Supply - Alarm Unit: DC 4.5V (3 × 1.5V AAA alkaline batteries)

Power Supply - Remote: 27A 12V 2mAh battery (included)

Battery Life - Alarm: 6 months standby / 3–5 months active use

Battery Life - Remote: 3 years

Batteries Included: Yes (isolated with removal tab until activated)

Operating Frequency: 433.97 MHz (433.05–433.97 MHz band)

Modulation: FSK (Frequency Shift Keying)

Antenna: Single antenna, 0 dBi gain

Decibel Rating: 110 dB

Operating Temperature: -20°C to +50°C

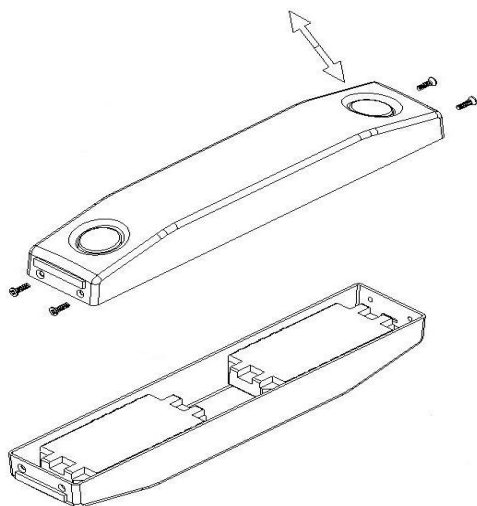
IP Rating: IP65 (dust-tight and protected against powerful water jets)

Guarantee: 1 Year Should this be 2 years for EU? Or is it different for warranty?

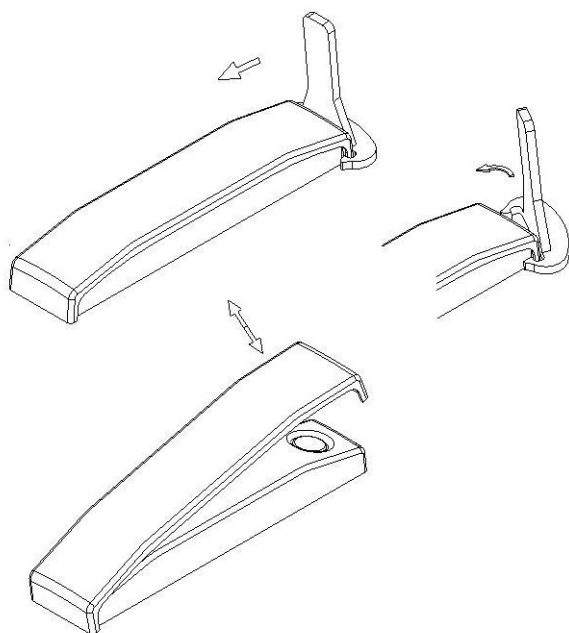
Packaging: Polythene (Recyclable)

FIGURE 1: Product Overview Diagram - Line drawing showing main unit and battery compartment.

Fig 1



Omnidirectional cover removal.
Fig 8



3. REMOTE CONTROL FUNCTIONS

The Vanguardian system includes a pre-paired wireless remote control that operates the alarm functions.

FIGURE 2: Remote Control Diagram - Line drawing showing remote control with labelled buttons: ARM button, DISARM button, Manual Alarm ON button, and Programming button.

REMOTE CONTROL BUTTONS:

ARM Button: Activates the alarm system

- Press once to arm the alarm
- LED will flash to confirm arming
- System enters armed mode after a brief delay

DISARM Button: Deactivates the alarm system

- Press once to disarm the alarm
- The LED will illuminate steadily to confirm disarm
- Alarm stops if currently sounding

Manual Alarm ON Button: Triggers the alarm manually

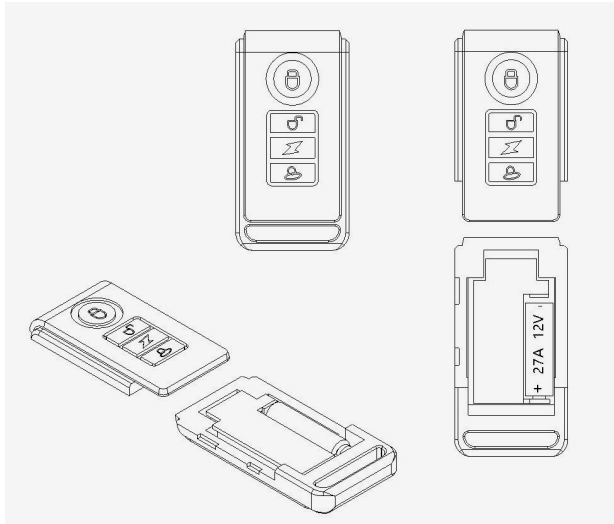
- Activates alarm sound immediately
- Useful for emergency/panic situations
- Press the DISARM button to stop

Programming Button: Used for system configuration

- Adjusts sensitivity levels
- See Section 5 for detailed instructions

REMOTE CONTROL BATTERY:

- The remote control is supplied with a 27A 12V DC 2mAh battery pre-installed
- Battery life: approximately 3 years under normal use
- To replace: open battery compartment on rear of remote, remove old battery, insert new 27A 12VDC battery with correct polarity, see Fig 7



4. ARM AND DISARM OPERATION

ARMING THE SYSTEM:

1. Ensure the alarm unit is properly installed and batteries are fresh
2. Press the ARM button on the remote control
3. The alarm sound indicator will flash briefly
4. The system enters armed mode after a 5-second delay
5. Any vibration or movement will trigger the alarm

WHEN ARMED:

- The alarm is sensitive to vibration and movement
- If triggered, the alarm will sound for 30 seconds
- After 30 seconds, the system automatically re-arms
- Multiple triggers will repeat this cycle

DISARMING THE SYSTEM:

1. Press the DISARM button on the remote control
2. The alarm sound indicator will illuminate steadily
3. The alarm is now deactivated
4. The system will not respond to vibration or movement

IMPORTANT NOTES:

- Remote control range: approximately 10-20 metres (line of sight)
- Metal objects and obstacles may reduce range
- Keep the remote control in a safe, accessible location
- Replace remote control batteries when the range decreases

5. SENSITIVITY ADJUSTMENT

The Vanguardian system features 7 adjustable sensitivity levels to minimise false alarms while maintaining security.

SENSITIVITY LEVELS:

Level 1 (Do): Highest sensitivity - triggers on slight movement

Level 2 (Re):

Level 3 (Mi):

Level 4 (Fa):

Level 5 (So):

Level 6 (La):

Level 7 (Te): Lowest sensitivity - requires strong vibration

FIGURE 2: Sensitivity Adjustment Procedure - Diagram showing the Programming button location and LED feedback indicators.

ADJUSTMENT PROCEDURE:

1. Press and hold the Programming button on the remote control
2. Observe the alarm sound indicator on the alarm unit
3. The LED will flash in sequence through the 7 levels:
 - 1 flash = Level 1 (Do)- Default
 - 2 flashes = Level 2 (Re)
 - 3 flashes = Level 3 (Mi)
 - 4 flashes = Level 4 (Fa)
 - 5 flashes = Level 5 (So)
 - 6 flashes = Level 6 (La)
 - 7 flashes = Level 7 (Te)
4. Release the Programming button when the desired level is reached
5. The system will save the new sensitivity setting

FALSE ALARM TROUBLESHOOTING:

Reduce sensitivity level

Ensure the mounting surface is stable and rigid

Check for loose mounting hardware

Verify replacement batteries are fresh and properly installed

6. BATTERY INFORMATION AND REPLACEMENT

BATTERY SPECIFICATIONS:

Type: AAA 1.5V DC Alkaline batteries

Quantity: 3 batteries required

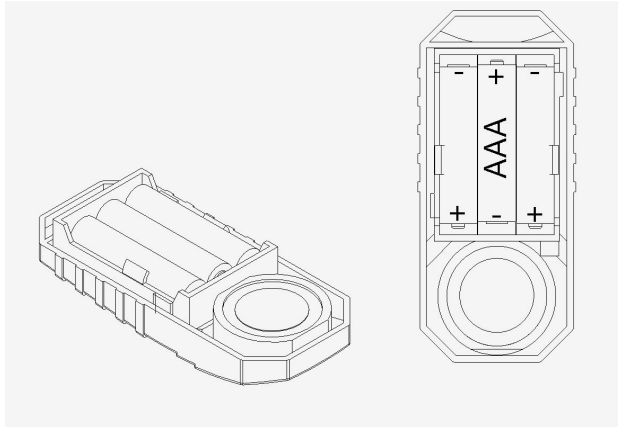
Expected Life: 6 months (standby mode) / 3-5 months (active use)

Recommended Brands: Duracell, Energiser, or equivalent quality alkaline batteries

The alarm comes with a low battery indicator

FIGURE 4: Battery Compartment - Line drawing showing battery compartment location, and correct battery orientation with polarity markings.

Fig.4



BATTERY REPLACEMENT PROCEDURE: See Figures 1 and 3.

1. Disarm the alarm system using the remote control
2. Locate the battery compartment on the back of the alarm unit
3. Use a small Phillips screwdriver to remove the compartment cover screw
4. Carefully remove the battery compartment cover if required

IMPORTANT - FIRST TIME USE:

The alarm unit comes with batteries pre-installed with an isolator tab. Before first use:

- Locate the battery isolator tab (plastic pull-tab protruding from battery compartment)
- Pull the isolator tab firmly to remove it and activate the batteries
- The alarm will beep briefly to indicate activation
- Test the system with the remote control

5. Remove the old batteries (note polarity orientation)
6. Insert 3 new AAA alkaline batteries, observing correct polarity:
 - Positive (+) terminal toward spring contact
 - Negative (-) terminal toward flat contact
7. Replace the battery compartment cover
8. Secure with the screw (do not overtighten) if required
9. Test the system by arming and triggering the alarm

LOW BATTERY INDICATORS:

Decreased remote control range
Dim light on the remote and diminishing range
System fails to arm or disarm reliably

BATTERY SAFETY AND DISPOSAL:

- Use only alkaline batteries - do not use rechargeable NiMH or NiCd batteries
- Do not mix old and new batteries
- Do not mix different battery brands or types
- Remove batteries if the unit will not be used for extended periods
- Do not dispose of batteries in fire - risk of explosion
- Recycle batteries according to local regulations
- Keep batteries away from children and pets
- If a battery leaks, avoid skin contact; clean the compartment before installing new batteries

7. INSTALLATION INSTRUCTIONS

The Vanguardian alarm system can be installed on various types of vehicles, trailers and equipment.

INSTALLATION LOCATIONS DO VARY, HOWEVER, WE DO PROVIDE A GUIDE OF BEST PRACTICE:

Motorbikes/Vans/Trailers etc -

Pipe carriers - any flat surface

Roof racks - cross bar, side rail

[FIGURE 5: Installation Examples - Multiple line drawings showing typical installation positions (these can vary).



ATION PROCEDURE:

INSTALL

1. SELECT MOUNTING LOCATION:

- Choose a rigid, stable mounting surface
- Ensure the remote control signal can reach the unit (10-20m range)
- Offer the base into the desired location, be aware to leave a 15mm gap from any edge to facilitate the removal of the top cover plate with the tool provided Fig 6.
- Recommended surface temperature: 10°C minimum for optimal adhesion

2. PREPARE MOUNTING SURFACE:

- Clean the surface with 3M isopropyl alcohol wipe
- Ensure surface is dry and free from dirt, oil, or rust
- Allow the surface to dry completely before mounting
- Remove the protective backing from the adhesive tape

3. Apply adhesive base(included with this product), use the tool to then provide pressure over the base area for at least 30 seconds to ensure full adhesive contact.

- Allow adhesive to cure for 24 hours before use for maximum bond strength

Fig 6

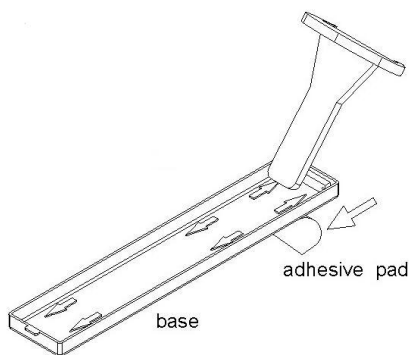


FIGURE 6: Adhesive Installation - Line drawing showing alarm unit with adhesive pad, protective backing removal, and removal tool

4. INSTALL ALARM UNIT:

- Remove the battery isolator tab from the alarm unit (see Section 6 for first-time activation) - Position the alarm unit on the attached base securely using the 4 screws, one in each corner To attach the alarm cabinet to the base, see fig 1.
- Attach the omnidirectional sound diffraction cover plate to complete the installation of the unit.

5. TEST THE INSTALLATION:

- Arm the system using remote control
- Give the vehicle a gentle tap within the protected area to test the alarm.

MOUNTING TIPS:

- Ensure surface temperature is at least 10°C for optimal adhesion
- Apply firm pressure using the tool provided for a minimum of 30 seconds over the base area during installation

8. USAGE NOTES AND TROUBLESHOOTING

OPERATIONAL GUIDELINES:

Long-press the remote buttons to ensure all the alarms are activated
Be alert to the low battery indicator sound

TROUBLESHOOTING GUIDE:

PROBLEM: Alarm does not arm when it should

SOLUTION:

- Check batteries in alarm unit - replace if weak
- Check batteries in the remote control, no light or dim light
- Verify remote is within range (10-20m)

PROBLEM: Alarm triggers too frequently (false alarms)

SOLUTION:

- Reduce sensitivity level (see Section 5)

PROBLEM: Alarm sound is weak or intermittent

SOLUTION:

- Replace batteries immediately
- Check battery contacts for corrosion
- Verify batteries are installed with correct polarity

PROBLEM: Remote control range is reduced

SOLUTION:

- Replace remote control batteries
- Move closer to the alarm unit
- Remove metal objects between the remote and the alarm if possible
- Check for electromagnetic interference sources

MAINTENANCE:

- Replace batteries every 6 months or when performance decreases
- Inspect mounting hardware quarterly for tightness

- Test alarm function weekly

9. REGULATORY COMPLIANCE INFORMATION

The Vanguardian Alarm System complies with applicable radio equipment regulations in the European Union, the United Kingdom, the United States, and Canada.

9.1 EUROPEAN UNION AND UNITED KINGDOM RED COMPLIANCE

This product complies with the essential requirements of the Radio Equipment Directive 2014/53/EU (RED) and the UK Radio Equipment Regulations 2017.

CE MARKING: This product bears the CE mark, indicating conformity with EU directives.

UKCA MARKING: This product bears the UKCA mark, indicating conformity with UK regulations.

HARMONISED STANDARDS:

Operating Frequency: 433.97 MHz - PASS
Frequency Range: 433.05 MHz to 433.97 MHz
Effective Radiated Power (ERP): < 10 mW
Modulation: FSK (Frequency Shift Keying)

EU/UK MANDATORY INFORMATION:

Operating Temperature Range: -10°C to +40°C
Storage Temperature Range: -20°C to +60°C
IP Protection Rating: IP56
Antenna Specification: Single antenna, 0 dBi gain

RESTRICTIONS AND WARNINGS (EU/UK):

⚠ This device operates in the 433 MHz frequency band, which is harmonised across the EU/UK for Short Range Devices.

⚠ This radio equipment may cause interference to other radio services. If interference occurs, the user must take appropriate measures to eliminate the interference.

⚠ This device must not be used in a manner that causes harmful interference to authorised radio communications.

⚠ Users should be aware that this product operates using radio frequency energy and should follow all instructions for proper installation and use.

⚠ This device may experience interference from other radio equipment and electronic devices.

⚠ Do not modify or alter this device. Modifications may void compliance with RED/Radio Equipment Regulations and may be illegal.

9.2 FCC COMPLIANCE (UNITED STATES)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet the general RF exposure requirements. The device can be used in portable exposure conditions without restriction.

FCC WARNING:

Changes or modifications not expressly approved by Protek One Ltd could void the user's authority to operate the equipment.

9.3 ISED COMPLIANCE (CANADA)

This device complies with Innovation, Science and Economic Development Canada (ISED) licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

IC: [To be assigned upon ISED certification]

ISED COMPLIANCE STATEMENT:

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 et CNR-210 du Canada.

RF EXPOSURE STATEMENT (ISED):

Changes or modifications not expressly approved by Protek One Ltd could void the user's authority to operate the equipment.

Les changements ou modifications non expressément approuvés par Protek One Ltd pourraient annuler l'autorité de l'utilisateur à utiliser l'équipement.

10. DECLARATION OF CONFORMITY

EU/UK DECLARATION OF CONFORMITY

Manufacturer: Protek One Ltd
Trademark: Vanguardian
Product: Vehicle and Motorbike Anti-Theft Alarm
Model: Vanguardian Alarm Systems
Type: Short Range Device (SRD)

We, Protek One Ltd, declare under our sole responsibility that the product identified above is in conformity with the following directives and regulations:

- Radio Equipment Directive 2014/53/EU (EU)
- UK Radio Equipment Regulations 2017 (UK)
- Restriction of Hazardous Substances Directive 2011/65/EU (RoHS)
- Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE)

The product is in conformity with the following harmonised standards and technical specifications:

- ETSI EN 300 220-1 V3.1.1 (2017-02)
- ETSI EN 300 220-2 V3.2.1 (2018-06)
- ETSI EN 301 489-1 V2.2.3 (2019-11)
- ETSI EN 301 489-3 V2.1.1 (2019-03)
- EN 62368-1:2014+A11:2017

Technical Documentation: Available upon request to competent authorities

Date of Declaration: 25-5-2026

Authorised Signatory:



[Name] Michael Horsfall

[Title] Director

Protek One Ltd

11. CONTACT INFORMATION AND ENVIRONMENTAL DISPOSAL

MANUFACTURER CONTACT:

Protek One Ltd

Trademark: Vanguardian

Unit 1, Orbital Industrial Park, Leeds LS10 1AG

UK

Customer Support:

Email: info@vanguardian.co.uk

Phone: +44 07484427464

Website: vanguardian.co.uk

For technical support, warranty claims, or product inquiries, please contact us using the information above.

WARRANTY INFORMATION:

A 2-year limited warranty from the date of purchase covers this product. The warranty covers defects in materials and workmanship under normal use. The warranty does not cover:

- Damage caused by misuse, abuse, or improper installation
- Normal wear and tear

- Battery leakage or battery-related damage
- Unauthorised modifications or repairs
- Damage from exposure to liquids or extreme temperatures

For warranty service, retain your proof of purchase and contact customer support.

ENVIRONMENTAL INFORMATION:

WEEE DIRECTIVE COMPLIANCE:

This symbol indicates that this product should not be disposed of with household waste. It must be disposed of at a designated collection point for the recycling of electrical and electronic equipment.

WEEE Symbol [crossed-out wheeled bin]

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health.

BATTERY DISPOSAL:

Batteries must be removed from the device before disposal and disposed of separately at designated battery collection points. Do not dispose of batteries in regular household waste.

RECYCLING INFORMATION:

For information about recycling this product and batteries in your area, contact your local waste disposal service or the retailer where you purchased the product.

RoHS COMPLIANCE:

This product complies with Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS). The product does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), or polybrominated diphenyl ethers (PBDE) in concentrations exceeding maximum allowable levels.

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Specifications subject to change without notice.

Document Version: 1.0
Date: 25-5-2026

Thank you for choosing Vanguardian Alarm Systems by Protek One Ltd.

VANGUARDIAN ALARM
Manufactured by: Protek One Ltd
1A Moor View, LS12 3HJ
Input: DC 4.5V (3 × AAA)
Frequency: 433.97 MHz
Max Power: <10 mW ERP



FCC ID: 2BUOA-VG1D IC: 35144-VG1D



ITALIAN SYMBOL, SPANISH SYMBOLS

MARKET	MANDATORY SYMBOLS	LANGUAGE REQ.
EU (General)	WEEE, CE, RoHS	Local language
UK	WEEE, UKCA, RoHS	English
France	WEEE, CE, Triman	French mandatory
Italy	WEEE, CE, Material codes	Italian mandatory
Spain	WEEE, CE, Recycling codes	Spanish mandatory
USA	FCC, Recycling (voluntary)	English
Canada	ISED, Recycling (varies)	English & French

6. BATTERY RECYCLING SYMBOLS - ALL MARKETS

