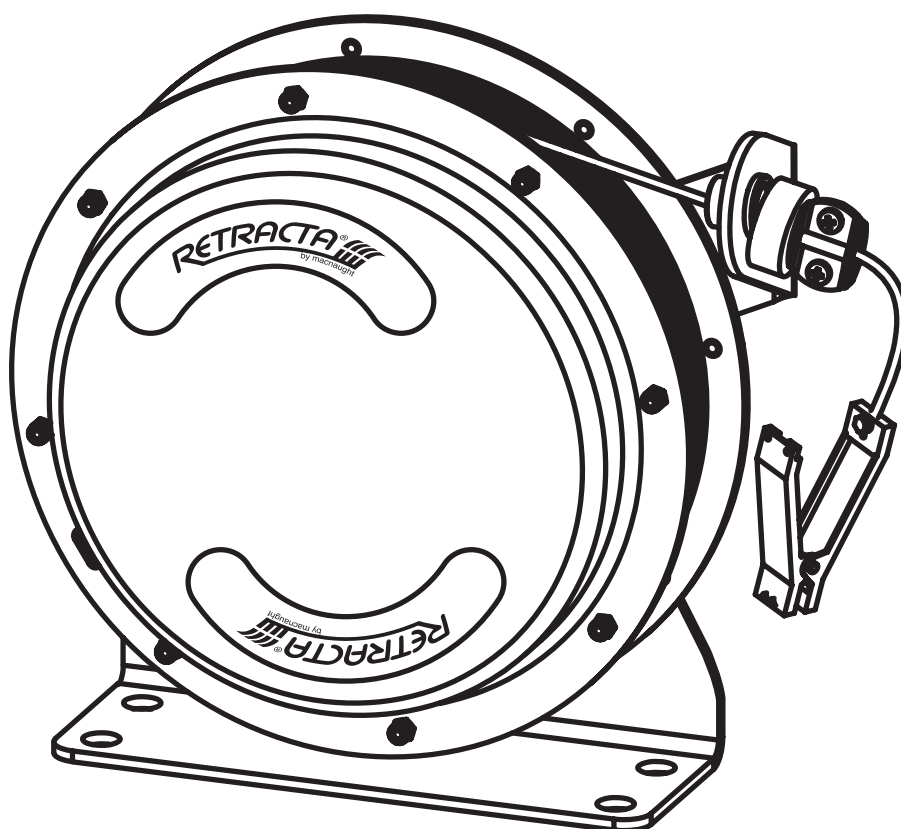


STATIC GROUNDING REEL



Model : RSR2515O-P

**WARNING:**

Read carefully and understand all **INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury. Save these instructions in a safe place and keep them available for future reference.

**WARNING:**

The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product and must be supplied by the operator.

**WARNING:**

This product is not suitable for hazardous area / explosive atmospheres.

GENERAL SAFETY

The following warnings should be observed when installing, operating or maintaining the grounding reel.

1. Keep the work area clean and dry. Damp or wet work areas can result in injury.
2. Keep children away from the work area. Do not allow children to handle this product.
3. The operator shall be fully equipped with appropriate personal protective equipment (PPE) to protect against potential injury.
4. Maintain a firm grip on the cable and guide it back into the reel during rewinding.
5. Do not attempt to repair damaged cable, in the case of damaged cable the cable should be replaced immediately. Don't attempt to use a damaged cable.
6. Do not use the grounding reel if electrical continuity to earth cannot be confirmed or if the resistance between the grounding clamp and the grounding system exceeds 10 Ω .
7. Use the right tool for the job. Do not attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. It will do the job better and more safely at the capacity for which it was intended. Do not modify this equipment, and do not use this equipment for a purpose for which it was not intended.
8. Check for damaged parts. Before using this product, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this product. Do not use damaged equipment.
9. Do not replace any parts which are not designed for use on this product.
10. Do not overreach. Keep proper footing and balance at all times to prevent tripping, falling, back injury, etc.
11. Do not use the equipment when tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating this equipment may result in serious personal injury.
12. Any repair, maintenance or replacement of components on the device shall be carried out only by a qualified electrician or suitably trained service personnel.

TECHNICAL DETAILS

SPECIFICATIONS

Description	Static Grounding Reel with Piercing Grounding Clamp
Cable Material	Flexible coated steel cable
Steel Cable Diameter	2.5mm (3/32")
Outer Coating Diameter	4.0mm (5/32")
Cable Length	15m (50ft)
Cable Colour	Orange
Clamp Type	Piercing static grounding clamp
Suggested Installation Height	~2m (6.5ft)
Operating Temperature	Up to 52°C (126°F)
Retraction Type	Spring driven slow retraction
Product Weight	7.3 Kg

PACKAGING CONTENTS

- Static grounding reel with piercing grounding clamp
- Instruction manual QR
- Reel mounting template (Printed on the box)

DIMENSIONS

- Height : 263mm (10.35")
- Width : 266mm (10.47")
- Depth : 123mm (4.84")

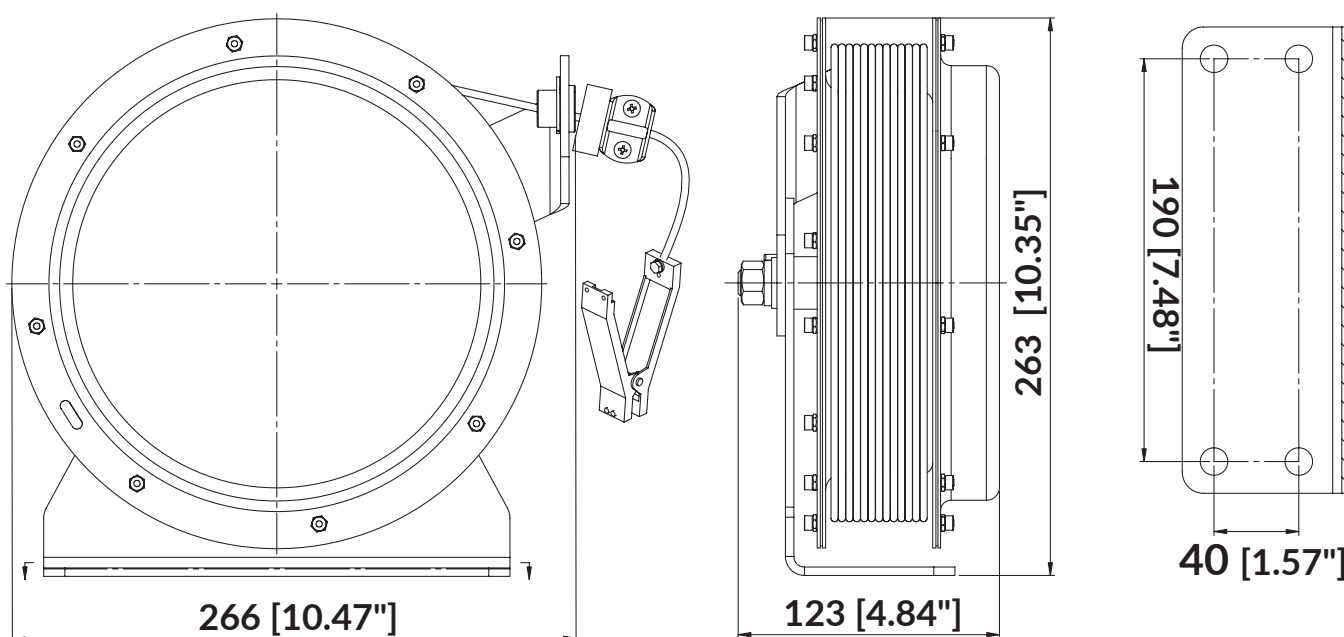


Figure : 1

INSTALLATION PROCEDURE

INSTALLATION



WARNING:

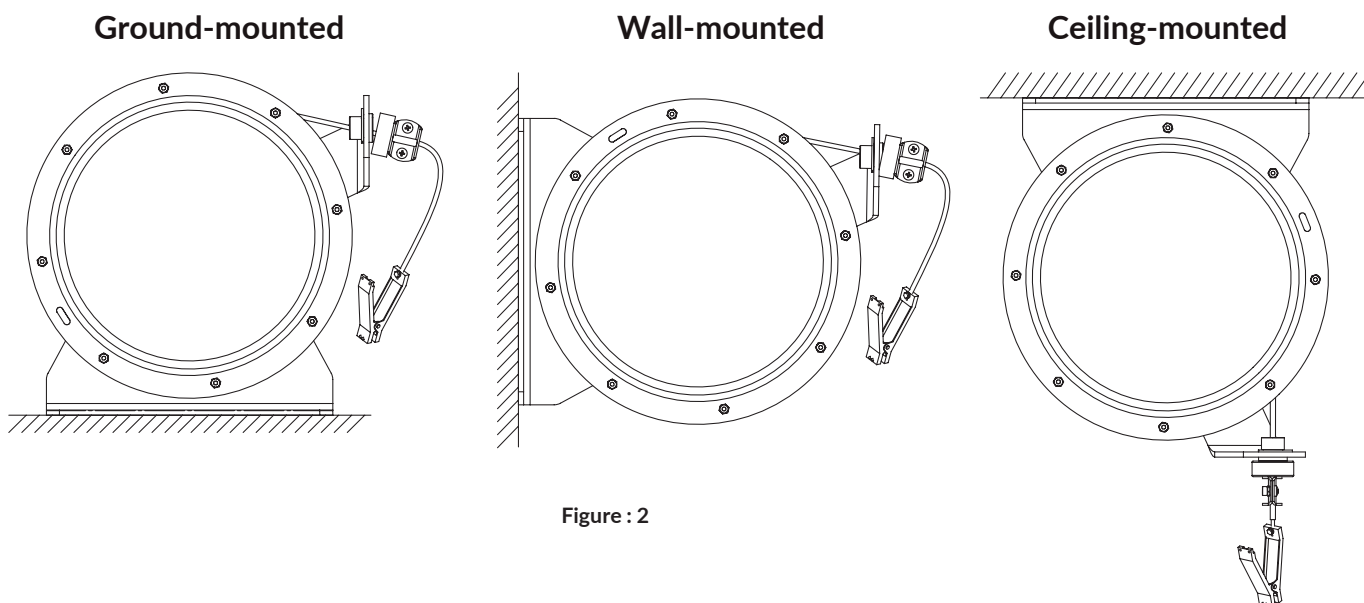
The Reel Frame must be core grounded before use.

Failure to properly ground the reel may result in static discharge, equipment damage, serious injury, or death.

Core Grounding Requirements:

- Ensure all electrical contact surfaces are clean. Remove any paint, rust, dirt, or other contaminants from the mounting holes and grounding contact points before installation.
- The reel frame must be core grounded. The grounding method will depend on the selected mounting orientation and installation arrangement.
- Use a minimum 4 AWG (21 mm²) copper grounding cable or equivalent.
- Verify that all grounding connections are secure and provide a low-resistance path to earth.
- Core grounding must be installed by a qualified and licensed professional in accordance with all applicable local electrical codes, standards, and regulations.

1. Unpack and inspect reel for damage or missing parts. Turn by hand to check for smooth operation.
2. Check the operation by pulling out the cable and then recoil it back into the reel.
3. The cable reel must be installed in premises conforming to current regulation and standards covering systems and work environments.
4. Common installation methods:



5. For overhead ceiling mounting: Install the reel at a maximum of 2.4m (7.9') above the floor. Adjust the cable stopper and guide arm to a suitable position when required as shown in the Figure : 2

6. Secure the reel using suitable M12 (1/2") metal fasteners.
7. Confirm electrical continuity exists between:
 - The reel frame and mounting structure
 - Mounting structure and grounding system
8. You can adjust the stopper to the proper position with a suitable 7mm (9/32") socket wrench and a screwdriver according to your need and adjust the guide arm bracket to the appropriate angle with an adjustable wrench and a 5mm (7/32") hex wrench.

OPERATION

SAFETY PRECAUTIONS



WARNING:

Static discharge hazard.

Failure to establish proper grounding may result in static charge accumulation and uncontrolled electrostatic discharge, which may cause equipment damage, fire, serious injury or death.



CAUTION:

Spring loaded mechanism hazard.

- The reel contains a preloaded spring mechanism.
- Do not disassemble the reel.
- Disassembly by unqualified personnel may result in serious injury.



CAUTION:

Retraction hazard.

- Maintain control of the clamp and cable during retraction.
- Do not allow the cable to retract freely.



IMPORTANT:

- To avoid damage to the reel, do not pull the flexible steel cable completely out of the reel, preferably leaving 2 to 3 turns in the reel.

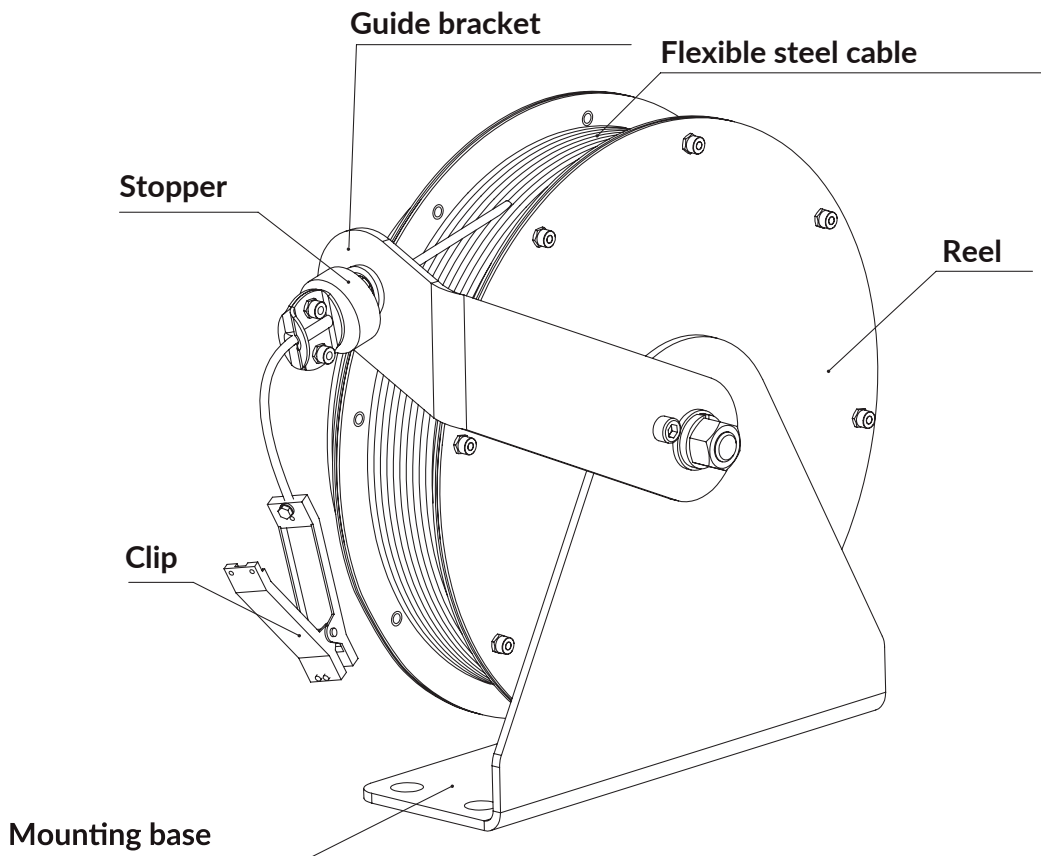


Figure : 3

Use Steps:

1. Before operating the reel, verify that the grounding system is functioning correctly.
2. Use suitable testing equipment, such as a multimeter, to confirm electrical continuity between:
 - The grounding clamp and the equipment being grounded.
 - The reel mounting location and the grounding point.

The resistance between the grounding clamp and the grounding system must not exceed 10 Ω . Do not use this product if continuity cannot be confirmed or if resistance exceeds the specified value. Contact qualified service personnel or your authorised dealer for assistance.

3. Slowly pull the cable from the reel and check if the reel operates correctly. During operation, the reel ratchet mechanism will produce audible clicking sounds as the cable is extended. Pull the cable to the required working length.
4. Slowly release cable tension to allow the ratchet locking mechanism to engage.
5. Attach the grounding clamp to the designated grounding point or earth bonding lug on the equipment. Never connect the clamp to painted or insulated surfaces.
6. Confirm that the connection is tight and made directly to a clean, conductive metal surface before commencing operation.
7. After use, remove the grounding clamp from the equipment. Pull the cable out approximately 30–250mm to disengage the locking mechanism. Slowly guide the cable back into the reel while maintaining control of the clamp.

MAINTENANCE



(For authorised/qualified personnel only)

EXPLODED PARTS DIAGRAMS

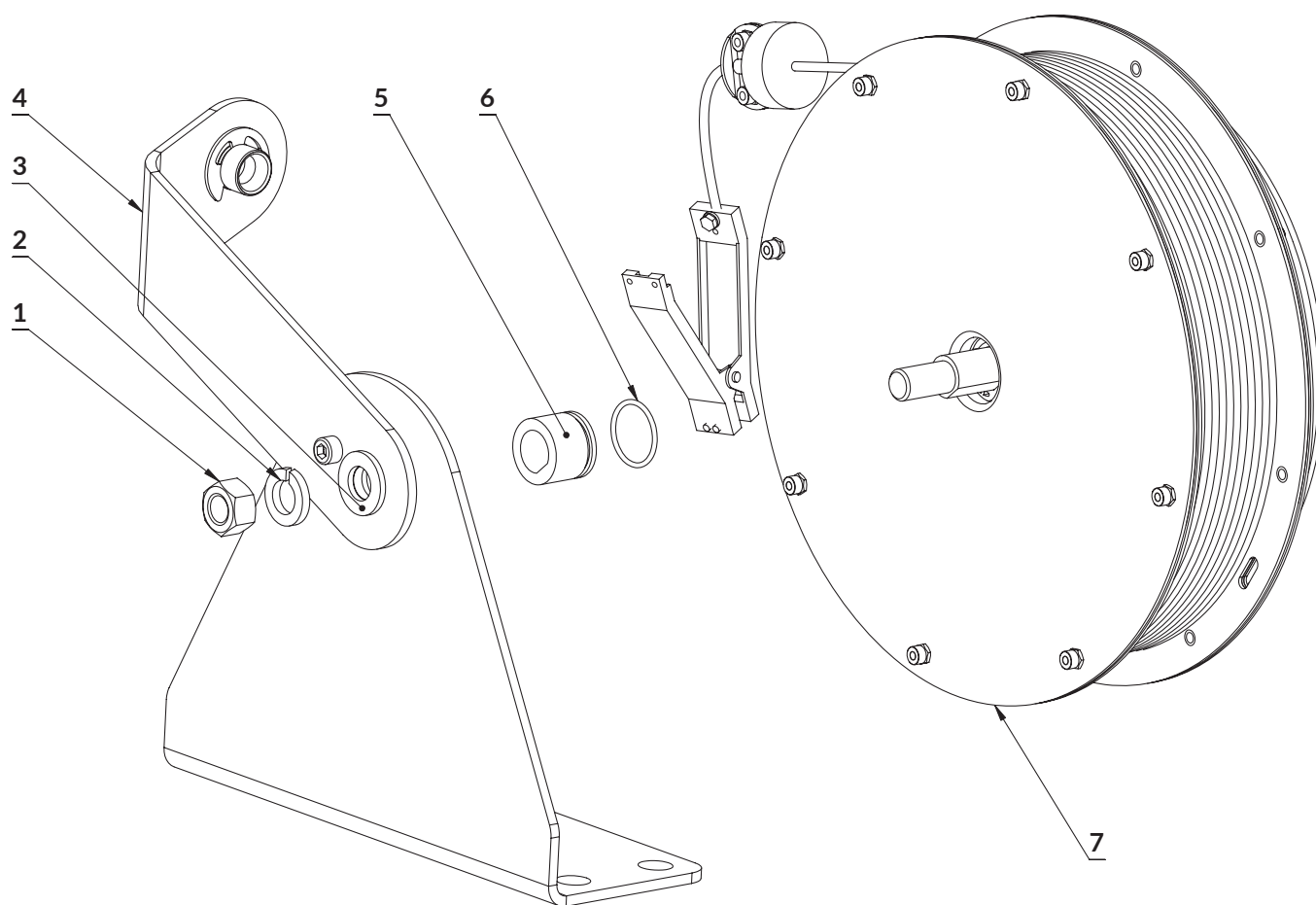


Figure : 4

GENERIC SPARE PARTS

Item no	Description	Qty
1	Nut M12	1
2	Washer 12	1
3	Washer 12	1
4	Base assembly	1
5	Bush	1
6	O-ring	1
7	Reel assembly	1



WARNING:

- **Before carrying out maintenance, ensure equipment is removed from service.**



IMPORTANT:

- **Any maintenance performed must be done by a qualified and licensed professional.**

Daily inspection:

- Inspect cable for wear or damage
- Inspect clamp condition
- Check mounting fasteners
- Inspect cable coating

Monthly inspection:

- Inspect cable extension operation
- Inspect cable retraction operation
- Check structural components for corrosion
- Check fastener tightness

Replace damaged components immediately.

Procedure of O-ring replacement:

1. The operator must understand this product or be a professionally trained person.
2. Remove several turns of steel cable from the reel assembly (Item 7) to release spring tension.
3. Remove the items 1, 2, 3, 4 and 5 in turn, remove 6 from 5, clean the contact surfaces of 5 and 7, replace 6 (O-ring) onto 5 and apply the lubricant to the contact surfaces of 5, 6 and 7. (Refer Figure: 4)
4. Replace the parts 5, 4, 3, 2 and 1 in turn and tighten them. Note that there are requirements for the mounting surfaces of 4 and the spindle.
5. Pre-tighten the volute spiral spring down the reel body with 4 to 5 turns of the steel cable to complete the replacement.

TROUBLESHOOTING GUIDE

Problem	Possible Cause	Corrective Action
Cable does not retract correctly.	1. Obstruction in the cable path. 2. Internal spring mechanism damage.	1. Remove obstruction from the cable path 2. Contact qualified service personnel.
Locking mechanism does not engage	Locking mechanism worn.	Inspect and replace damaged components.
Poor grounding performance	1. Contaminated clamp. 2. Damaged cable. 3. Poor grounding connection.	1. Clean connection surfaces. 2. Replace damaged components. 3. Verify grounding connection.

LIMITED WARRANTY

For Warranty Terms and Conditions see macnaught.com.au

For a list of Australian Service Centers see macnaught.com.au



Macnaught

1800 185 102 | sales@macnaught.com.au



This product should be disposed of according to all applicable local and national government environment regulations and guidelines.