



Bonding Reels

Installation and Maintenance Manual

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1.0 Introduction

1.1 Scope of this manual

WARNING

WARNINGS ARE GIVEN WHERE FAILURE TO OBSERVE THE INSTRUCTION COULD CAUSE INJURY TO PEOPLE.

CAUTION

Cautions are given where failure to observe the instruction could result in damage to the equipment or associated equipment.

This manual provides the end-user of Collins Youldon bonding reels with full details of the equipment, its installation, use, maintenance and basic repair/spares information. It must be stressed that proper installation, use and maintenance of the equipment provides the key to long and trouble free use.

In the unlikely event of any operational problems, or for the supply of spare parts and any technical queries please call our Sales Office who will be pleased to help 01480 832200 (+44 1480 832200).

Collins Youldon has a policy of continual product improvement, and reserves the right to modify the design or materials used at any time in the future.

1.2 Description

The basic bonding reel consists of a drum with rewind handle and cable anchor points supported on a shaft and mounting bracket about which the drum can be rotated. It is supplied with cable and has a spring clamp at the end of the cable.

Standard Bonding Reel – part no 5600.08.A



This unit is supplied complete with heavy duty clamp and 40m of 7x7 galvanised steel cable with yellow vinyl coating. Supplied with an overrun brake and rewind handle. The drum is aluminium and the stand is zinc plated mild steel.

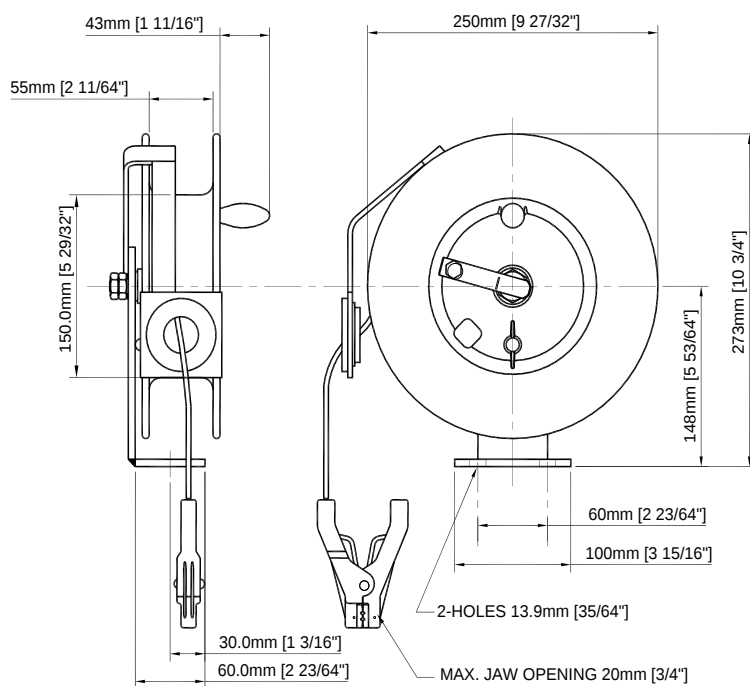
Weight 4.7 kg

Compact Bonding Reel – part no 5600.06.A

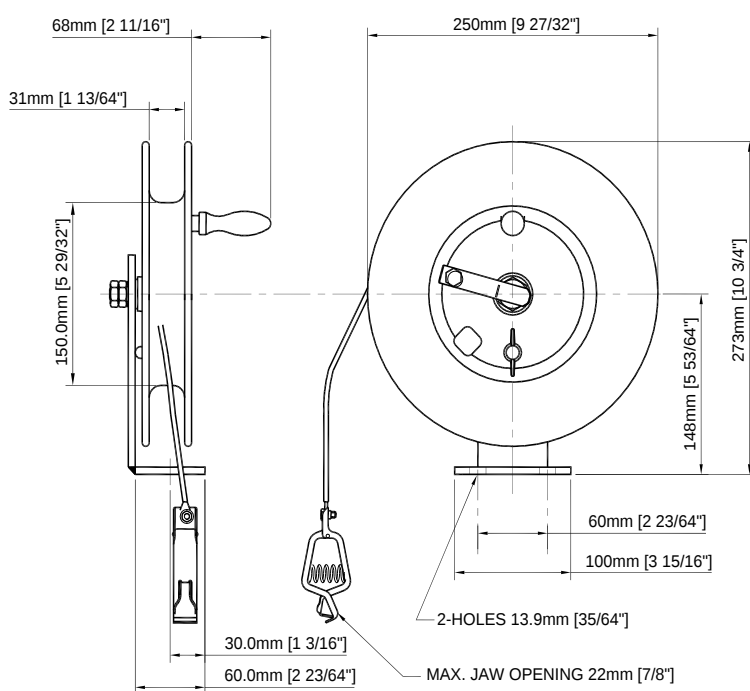


The compact unit is supplied complete with a 4" copper earthing clip and 15m of 7x7 galvanised steel cable with yellow vinyl coating. Supplied with a rewind handle. The drum is aluminium and the stand is zinc plated mild steel.

Weight 3.5 kg



Standard Bonding Reel – part no 5600.06.A



Compact Bonding Reel – part no 5600.08.A

Figure 1 Bonding Reel Dimensions

1.3 Inspection

Inspect the bonding reel upon receipt; if there is any damage or it does not operate correctly please notify your supplier and the carrier in writing within 3 days, stating the part number of the cable drum and your order number.

2.0 Installation

CAUTION

Care must be taken to avoid distortion of, or damage to, the mounting bracket, drum or continuity contact strip, especially while fitting for the first time.

- 2.1 Ensure that the drum is free to rotate and the handle is screwed in place for rewinding. To fit the rewind plastic handle it will be necessary to use a hexagonal allen key in the end of the threaded end. Pass the key through the tapped hole from the opposite side of the drum and offer the plastic knob to the key and threaded hole at the same time. Once the threads are engaged correctly, screw the plastic handle fully home.
- 2.2 Check that the contact strip is in firm contact with the drum spindle hexagon head.
- 2.3 Check continuity from the clamp to the vehicle chassis is less than 10 Ω

3.0 Operation

WARNING

ONCE IN USE IT IS ESSENTIAL THAT THE CONTINUITY BETWEEN CABLE CLAMP, MOUNTING BRACKET AND VEHICLE CHASSIS IS ADEQUATE AND MAINTAINED AT ALL TIMES.

Note: These instructions are intended to provide general guidance and must be modified to suit the specific operating conditions intended.

3.1 Deploying the cable

- 3.1.1 To use the cable, the operator should first ensure that the rewind handle is clear of any obstructions. Unscrew the wing nut to unlock the drum and the drum will be free to rotate.
- 3.1.2 Unhook the clamp end of the cable from its storage position
- 3.1.3 The operator must take care not to allow the cable to become tangled. This could cause damage to the cable or the operator to be impeded by, or trip over, the cable.
- 3.1.4 Pull the cable at the clamp end in a steady motion unwinding the cable until it is fully deployed. If any resistance is felt while unwinding, stop deployment, investigate and resolve any problem before continuing.
- 3.1.5 Connect the clamp to a suitable point at the delivery site.

3.2 Rewinding the cable

WARNINGS

- 1 TAKE CARE NOT TO TRAP HANDS BETWEEN THE CABLE AND THE DRUM/MOUNTING BRACKET.**
- 2 MAKE SURE THE CABLE IS DISCONNECTED AT THE CLAMP END AND THAT THERE ARE NO OBSTRUCTIONS TO THE REWIND PATH BACK TO THE BONDING REEL.**
- 3 BEFORE COMMENCING THE REWIND OPERATION MAKE SURE THAT ALL OTHER PERSONS ARE STANDING AWAY FROM THE BONDING REEL AND THE CABLE.**

3.2.1 In order to avoid damage to the end clamp it is always preferable to return this end to the drum in a loop prior to rewinding. This prevents the clamp being dragged along the floor.

4.0 Maintenance

WARNINGS

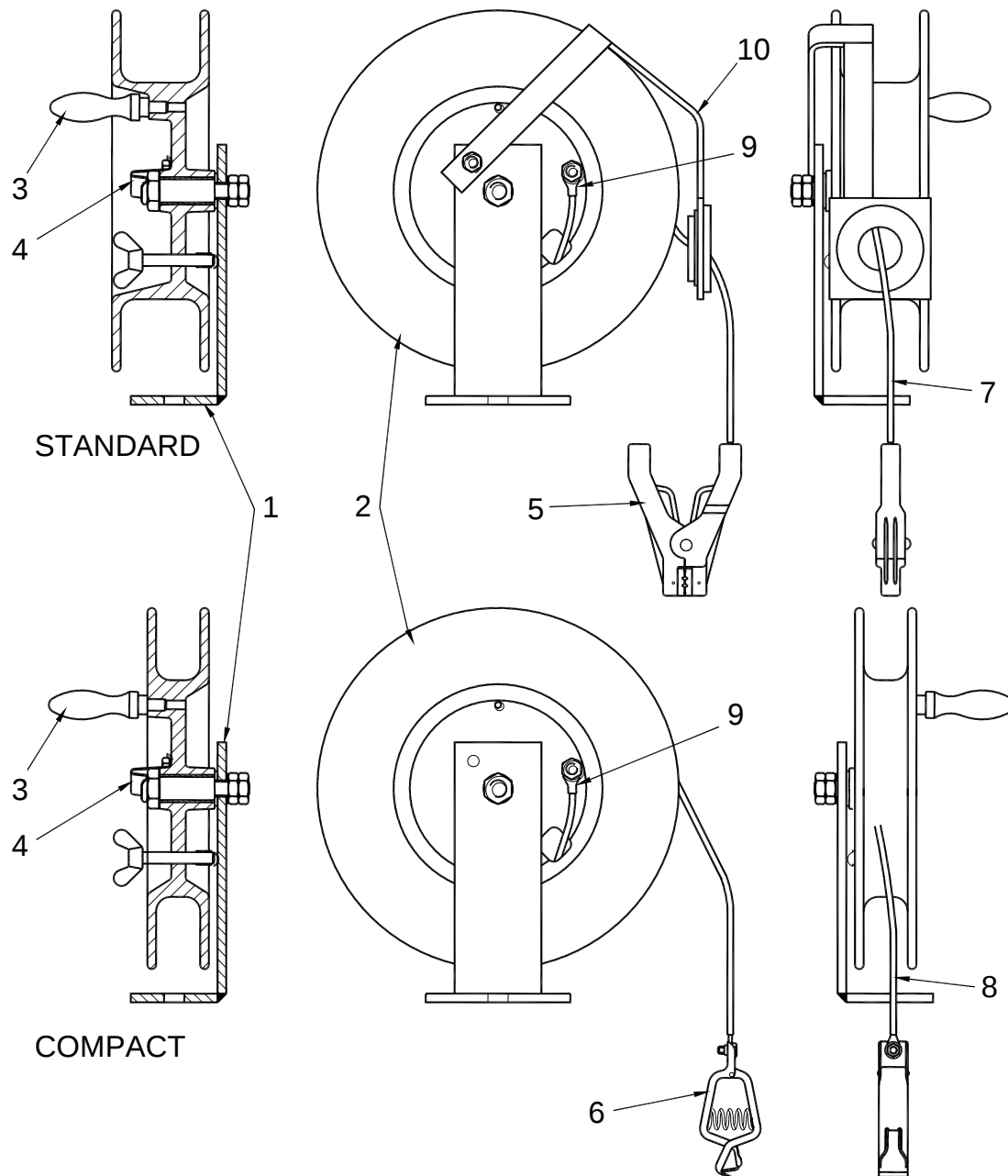
- 1 A BENT OR DAMAGED CONTACT STRIP COULD AFFECT THE ELECTRICAL CONTINUITY.**
- 2 A DAMAGED CABLE COULD AFFECT THE RESISTANCE ALONG ITS LENGTH.**

4.1 Monthly maintenance

- 4.1.1 Check the drum rotates freely.
- 4.1.2 Inspect the cable and end clamp for any damage or undue wear.
- 4.1.3 Check that the electrical resistance between the Bonding reel clamp and the vehicle chassis is less than 10 Ω
- 4.1.4 Lubricate the drum axle as required.

Part Breakdown

Appendix 1



Item	Description	Part No	Quantity	
			STANDARD	COMPACT
1	Mounting Bracket	<i>call for details</i>	1	1
2	Drum	<i>call for details</i>	1	1
3	Plastic Handle	5602.00.K	1	1
4	Copper Contact Strip	5603.00.C	1	1
5	H/D Air force Clamp	5605.00.M	1	-
6	Copper Clip	5608.00.M	-	1
7	40-m spare 7x7 Galv. Cable	5606.00.M	1	-
8	15-m spare 7x7 Galv. Cable	5607.00.M	-	1
9	Eyelet Terminal	5612.00.M	1	1
10	Brake/Cable Guide	5613.00.M	1	-