



RK15

REEL KLEEN RK15

INSTALLATION, OPERATING AND MAINTENANCE MANUAL PLEASE LEAVE WITH OPERATOR

A34/074 R1

ECN 8662 SEPTEMBER 2017

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EC DECLARATION OF CONFORMITY

EC DECLARATION OF CONFORMITY

(Guarantee of Production Quality)

We, Imperial Machine Company Limited of:

Unit 1. Abboy Road, Wreyham Industrial Estate, Wreyham Indus

Unit 1, Abbey Road, Wrexham Industrial Estate, Wrexham, LL13 9RF

Declare under our sole responsibility that the machine



REEL KLEEN RK15

As described in the attached technical documentation is in conformity with the Machine Safety Directive 89/392/EEC as amended by 91/368/EEC and 93/44/EEC and is manufactured under a quality system BS EN ISO 9001. It is also in conformity with the protection requirements of the Electro Magnetic Compatibility Directive 89/336/EEC and is manufactured in accordance with harmonised standards EN 55014-1 Emission and EN 55014-2 Immunity (plus product specific standards).

Approved by E Plumb, Engineering Manager

Signed at Wrexham, Date

September 2017

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GUARANTEE

This equipment is guaranteed by IMC for 1 year from the date of its purchase from IMC, or from one of its stockists, dealers or distributors. The guarantee is limited to the replacement of faulty parts or products and excludes any consequential loss or expense incurred by purchasers. Defects that arise from faulty installation, inadequate maintenance, incorrect use or fair wear and tear are not covered by the guarantee.

The guarantee applies in this form to installations within the United Kingdom.

WATER SUPPLY

NOTE: These units are designed to be fitted to a mains water supply in accordance to local water board regulations. This applies to UK installations; overseas customers should install the machine in accordance with local regulations.

IF IN DOUBT, CHECK WITH YOUR LOCAL AUTHORITY

COMMISSIONING

These instructions are designed to aid you in the installation of the REEL KLEEN.

- 1. All REEL KLEEN's come with hose, they are set at the proper tension and are ready for wall mounting.
- 2. The REEL KLEEN can also be mounted from the floor or ceiling.
- 3. When floor or ceiling mounted, the hose guide should be adjusted to allow the hose to be pulled from the REEL KLEEN in a straight line for maximum hose life.
- 4. A 3/4" BSP flexible connection is supplied for connection to the water inlet.
- 5. Connect water supply line and tighten with a spanner.
- 6. Turn on water supply and check for leaks.

MAINTENANCE

Other than regular cleaning the REEL KLEEN's require no maintenance by the end user.

MATERIAL CONTENT

The REEL KLEEN contains the following materials:

Metals Stainless steel, Mild steel (inc plated).

Plastics and rubber Neoprene rubber.

SAFETY

Please read this manual carefully and follow the instruction. This manual contains important information concerning the operating features of the REEL KLEEN RK15, as well as safety precautions to be taken before, during and after installation. The following safety precautions call attention to potentially dangerous conditions.



Warning: Indicates a situation in which personal injury may occur.



Caution: Indicates a situation in which damage to equipment or material may occur.

Note: Provides helpful information for proper installation and operation of the hose reel.

GENERAL INSTRUCTIONS

These suggestions are designed to aid you in the installation. Please read them carefully for proper installation, which will ensure that the products will give long and dependable service, with a minimum of maintenance.

- 1. Shut off water supply at main source and open faucets to drain lines.
- 2. **Do not** wipe grease off parts.
- 3. Hand-tighten first before using wrench.
- 4. Handle plated surfaces with care, being careful not to scratch with tools.
- 5. Do not force parts together. Tighten according to directions.
- 6. Rest fixtures on pads whenever necessary, and use wooden blocks and boards to brace them in position.

Use this manual for installation and ordering parts from your dealer (please see final page of this manual for details).

INSTALLATION



Caution: Instruct operators in the safe, proper use and maintenance of the hose reel. Keep this manual for future reference.



Warning: Failure to read, understand and follow these instructions may result in personal injury or even fatality.

A. Mounting:

Reels shipped with hose are ready for installation.

- 1. Mount hose reel with the main shaft (item 25 see parts list on page 16) in the horizontal position.
- 2. Mount reel with centre line of drum (8) in line with hose pay-out.

B. Supply hose:

Assemble input hose into main shaft (25). Do not use rigid pipe at input connection.

C. Secondary support cable:

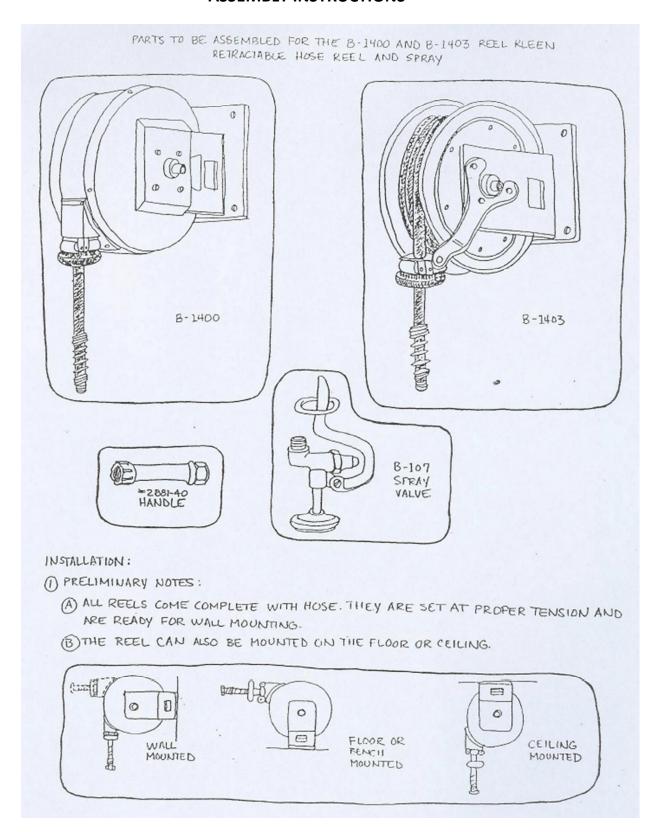


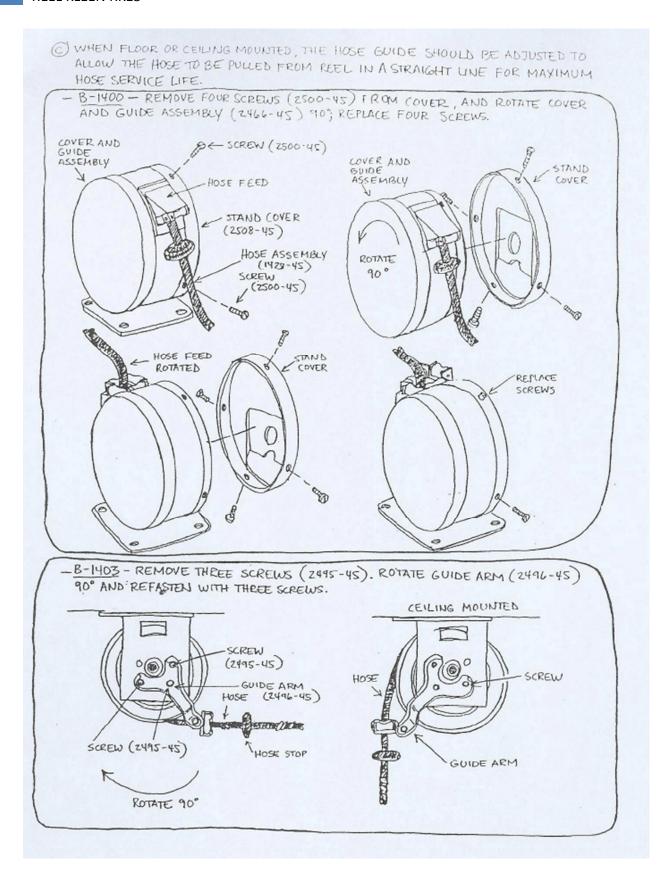
Warning: The secondary chain must be used to protect personnel in case of failure of mounting components or support structure.

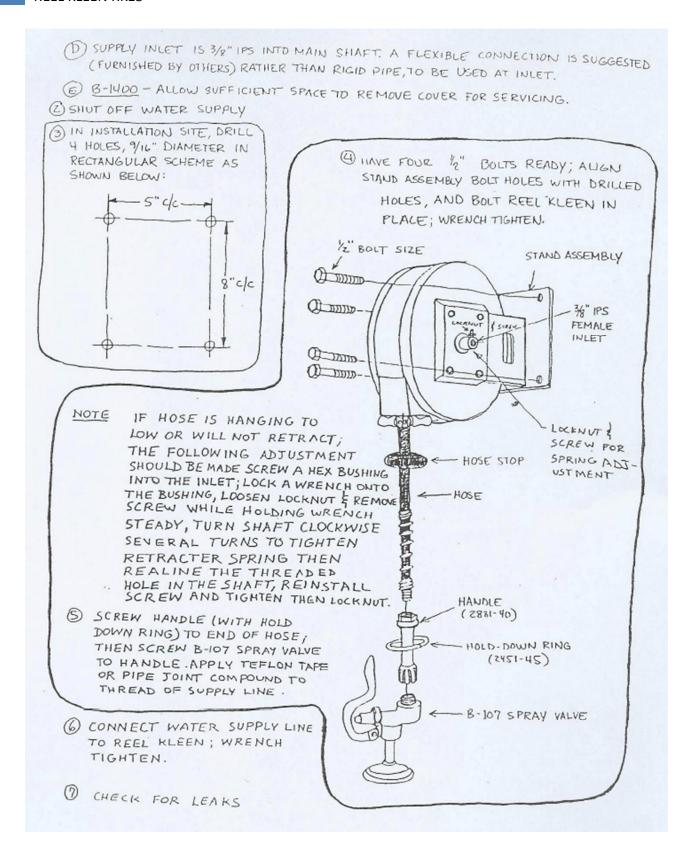
- 1. Attach one end of secondary support cable to the hole in the stand cover (20).
- 2. Attach the other end of secondary support cable to a separate support. Do not attach the secondary support cable to the same structure that supports the hose reel.

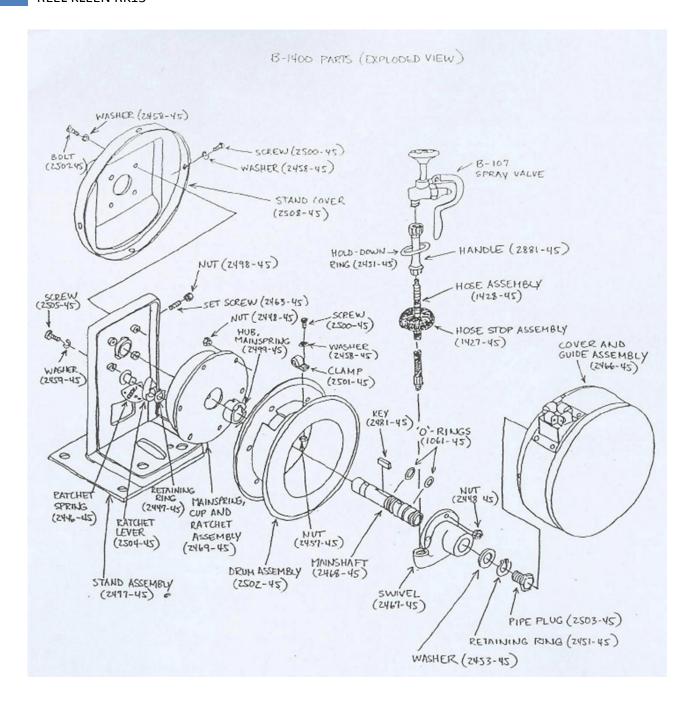
Note: Make the cable as short as possible so that the hose reel will drop no more than six inches if the main support fails.

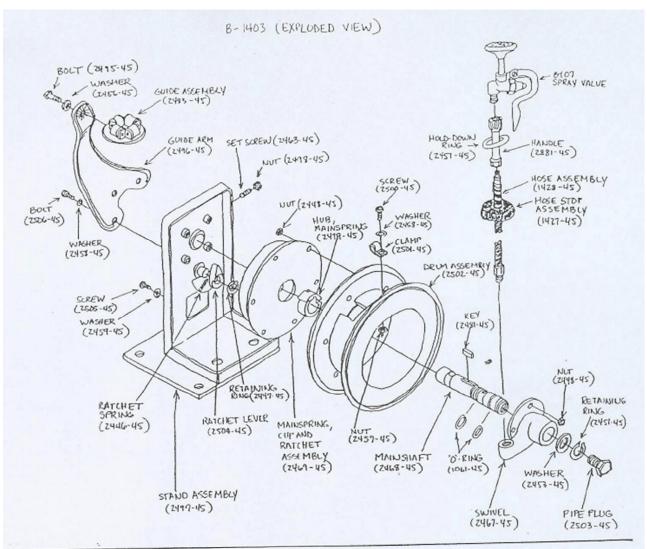
ASSEMBLY INSTRUCTIONS



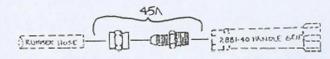




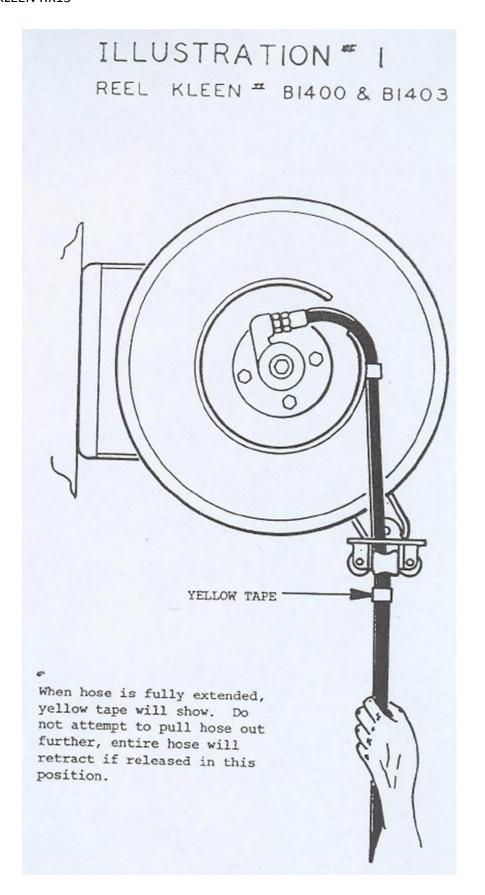


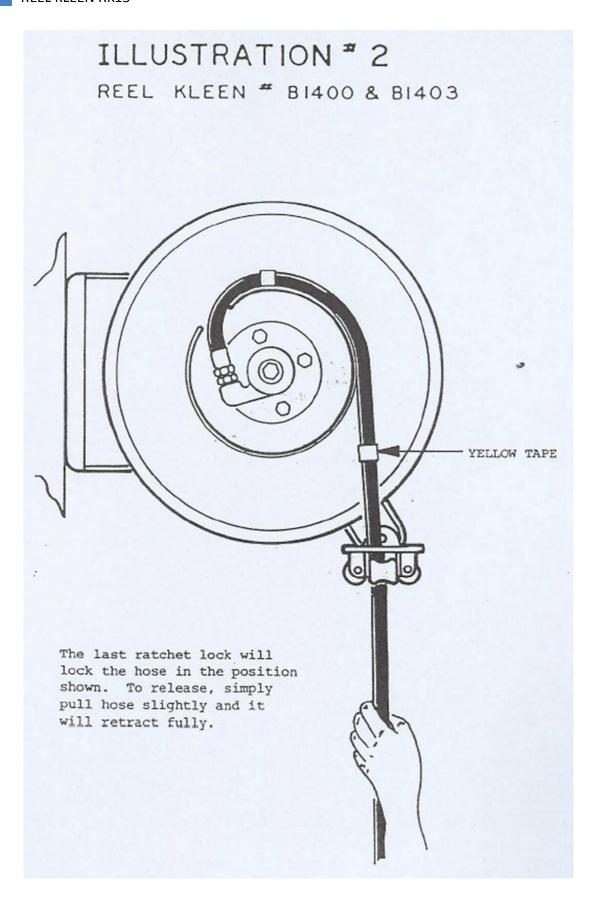


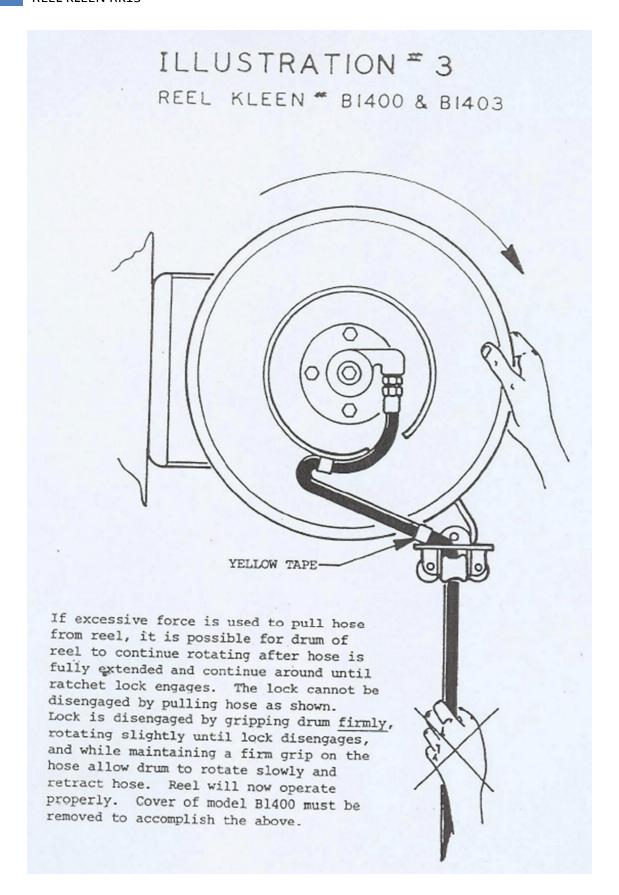
ELSY METHOD OF REPAIRING BROKEN REEL-KLEEN HOSE



- 1) CUT BROKEN HOSE SQUARELY.
- 2) UNSCREW 45A COUPUNG ? INSERT END OF HOSE ALL THE WAY TO SHOULDER IN FEMALE PART.
- 3) START SMALL END OF HIPPLE INTO THREND OF FEMALE PART.
- 4) USING TWO WRENCHES, SCREW THE TWO TARTS OF COUPLING TOGETHER TILL THEY TIGHTEN.
- 5) ATTACH THE MALE THREAD OF NIPPLE TO SA HANDLE GRIP SECURELY USING TEFLON TAPE OR COMPOUND.



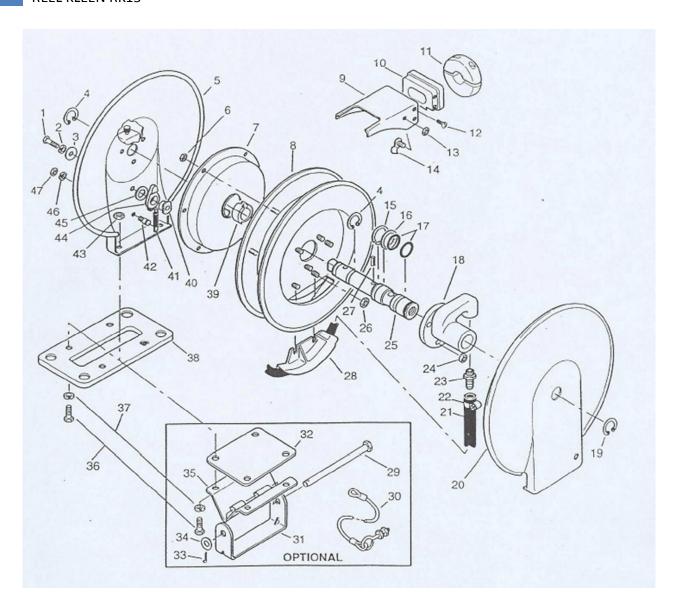




PARTS LIST

Item Number	Part Number	Qty.	Description
		_	
1	30-P-115	1	SCREW (1/4-20 x 1/2")
2	101-P-30	1	LOCK WASHER (1/4")
3	126-P-50	1	WASHER (1/4")
4	580-P-45	1	RETAINING RING
5	57844	1	COVER ASSEMBLY
6	106-P-77	6	LOCK NUT (10.24)
7	57846-2	1	LOCK NUT (10-24)
		1	RATCHET & SPRING ASSMBLY D513, D522, DB504 RATCHET & SPRING ASSMBLY DB508
8	57846-3 57827	1	DRUM ASSEMBLY
9	57812	1	GUIDE, CANOPY
10	57814	1	NOSE, GUIDE
11	ST-1	1	HOSE STOP (53732)
12	1137-P-62	4	SCREW (#6-32 x 5/16, SELF TAP)
13	160-P-77	2	LOCK NUT (10-24)
14	57855	2	CLAMP ASSEMBLY
15	576-P-46	1	RETAINING RING
13	370-1-40	1	RETAINING KING
16	43010	1	WASHER
17	C47040142	2	O-RING
18	M72420031	1	SWIVEL
19	576-P-46	1	RETAINING RING
20	57803	1	COVER, STAND
		I	
21	53821-27	1	HOSE ASSEMBLY (D513)
	57883-1	1	HOSE ASSEMBLY (D522)
	53821-26	1	HOSE ASSEMBLY (DB504, DB508)
22	671-P-10	1	HOSE CLAMP
23	658-P-49		BARB FITTING D522A, D522SA, D522GCA, D522HEA
	658-P-35		BARB FITTING D513A, D504A, DB508A, D513-SA, DB504-SA, DB508-SA
24	160-P-50	4	LOCK NUT (10-24)
25	M37700002	1	MAIN SHAFT
26	160-P-77	2	LOCK NUT (10-24)
27	230-P-103	1	SELF-LOCK PIN
28	57823	1	GUIDE
29	2006	1	PIN, MOUNTING BRACKET

30	62388	1	CABLE, SAFETY (OPTIONAL)
	1	I	
31	2009	1	MOUNTING BRACKET
32	57877	1	PLATE, SWIVEL
33	228-P-10	1	COTTER PIN
34	30365	1	WASHER
35	57808	1	SWIVEL
36	30-P-115	4	SCREW (1/4-20 x 1/2")
37	101-P-30	4	LOCK WASHER (1/4")
38	57807	1	BASE PLATE
39	14058-2	1	HUB, SPRING RELEASE
40	57843	1	SHAFT LEVER
	_		
41	57727	1	SPRING, RATCHET
42	57850	1	PIN, SPRING
43	151-P-20	4	NUT (1/4-20 HEX HEAD)
44	57841	1	LEVER, RATCHET
45	47378	1	WASHER
46	103-P-20	1	LOCK WASHER (#6)
47	151-P-15	1	NUT (#6-32)
OPT.	57972	1	SWING MOUNT



SERVICE



Caution: Before attempting any service, always cut off supply input and remove all mainspring tension.

A. Hose replacement:

- 1. Remove screws (item 36 see parts list on page 17), washers (37) and nuts (43) from base or swivel plate (38 or 32).
- 2. Remove retaining ring (19) and canopy guide (9).
- 3. Remove stand cover (20) exposing swivel (18).
- 4. Loosen clamp (22).
- 5. Remove old hose (21) from barb fitting (23).
- 6. Install new hose.
- 7. Reassemble by reversing above procedure.

Note: When replacing hose, be sure all hose fittings are secure.

B. O-Ring replacement:

- 1. Remove screws (36), washers (37) and nuts (43) from base or swivel plate (38 or 32)
- 2. Remove retaining ring (19) and canopy guide (9).
- 3. Remove stand cover (20).
- 4. Remove swivel (18).
- 5. Remove four nuts (24).
- 6. Remove swivel (18).

Note: Take care not to damage or scratch the main shaft (25) or swivel (18) during swivel removal.

- 7. Remove old O-rings (17) and discard.
- 8. Clean all contamination from main shaft (25) and swivel (18).
- 9. Install new O-rings and apply a light coat of commercial grease to main shaft (25) and swivel (18).
- 10. Remove all excess grease.
- 11. Reassemble by reversing above procedure.

C. Ratchet and spring assembly replacement:

If reel will not develop tension or retract hose, ratchet and spring assembly (7) will need to be replaced.

To replace ratchet and spring assembly (7):

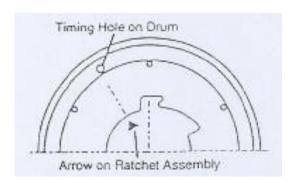
- 1. Remove screws (36), washers (37) and nuts (43) from base or swivel plate (38 or 32).
- 2. Remove retaining ring (4) and canopy guide (9).
- 3. Remove cover assembly (5).
- 4. Remove six nuts (6) and ratchet spring assembly (7) from drum assembly (8) and replace.

5. To reassemble, reverse above procedure.

Note: Spring is completely self-contained and safe to handle.



Caution: When reassembling ratchet and spring assembly (7), be sure arrow on ratchet plate aligns with alignment hole in drum (8).



ADJUSTMENTS

A. Ratchet lock:

The ratchet lock works with reel mounted in any position and needs no adjustment. To disable ratchet, remove the ratchet spring (41), ratchet prawl (44) and shaft lever (40).

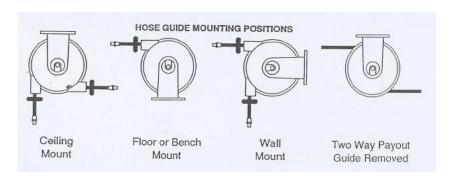
B. Hose guide:

The canopy guide (9) may be set at any position around the drum assembly (8). **Note**: The guide must be set so the hose pays off the reel in a straight line without bends.

To adjust canopy guide:

- 1. Remove locknut (13) and clamp assembly (14).
- 2. Rotate canopy guide (90) to desired pay-out location.

The guide can be removed for two-way hose pay-out.



C. Spring tension:

Tension may be adjusted before or after final installation of reel and connection of hose has been made.

To adjust tension:

- 1. Pull hose out to determine if more or less tension is desired.
- 2. Place wrench flat ends of mains shaft (25).
- 3. While holding wrench firmly, pull spring pin on cover (5) until it allows main shaft to rotate.
- 4. Turn main shaft (25) counter-clockwise to decrease tension and clockwise to increase.
- 5. Re-engage spring pin when desired tension has been set. The pin will set every ½ turn.



Caution: Pull hose out completely to ensure enough spring revolutions remain for operating. Also, always leave at least 1-2 turns between full extension and when the spring is wound tight (bottomed out). If entire hose assembly cannot be pulled out, decrease spring tension until full extension is possible. Failure to test in this manner can cause spring damage.

CONTACT DETAILS

For installations outside the UK please contact your supplier.

For information on IMC service support (if applicable), please call IMC on +44 (0) 1978 661155. Alternatively, contact us via email or fax:

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