

TWIN PEDESTAL METAL HOSE REEL



INSTRUCTION MANUAL (Including Stainless Steel Hose Reels)

Introduction

Thank you for purchasing a Macnaught Twin Pedestal heavy duty metal hose reel.

The Macnaught range of twin pedestal heavy duty metal hose reels have been designed using the highest quality, heavy gauge materials and are fitted with purpose specific hose and swivels. There are models available for Air, Oil, Grease and Diesel.

Important Information

PLEASE READ THIS SAFETY INFORMATION CAREFULLY BEFORE USE.

Read and retain this instruction manual to assist you in the operation and maintenance of this product.

'Cautions' are listed throughout this manual to advise of actions to which may cause damage to your equipment.



CAUTION

Make sure the line pressure does not exceed the rated operating pressure of your model hose reel, refer specifications.



CAUTION

Exposure of the skin directly to pressurized air or fluid could result in severe bodily injury.



CAUTION

Before carrying out any maintenance turn off and disconnect the supply line to the reel and carefully release the hose line pressure.

Installation Procedure

1) Using the four holes in the base, mount the reel in the desired location. Be sure to use appropriate hardware and tighten securely.

2) Apply Teflon tape or pipe sealant to supply line threads, attach to reel inlet and tighten. The other end of incoming line can now be connected to desired supply source. Tighten stopper bolts, and unlatch the reel.



3) Apply Teflon tape or pipe sealant to outlet fitting on reel hose, then attach to desired tool, or nozzle. Check connection for leakage, also check hose reel for correct operation. (see Operation section.)

4) If hose stopper adjustment is required, pull hose from reel and allow to latch at desired length. Loosen stopper bolts and slide stopper to a position close to the hose guide.

5) Re-tighten stopper bolts and check operation.

Operation

1) Check reel for correct operation by slowly pulling out the hose. A "clicking" noise will be heard every half revolution of the drum.

2) To latch the reel, pull out the hose and allow it to retract after hearing the first, second or third "click".

3) To unlatch, slowly pull out the hose until the "clicking" noise stops, then let the hose retract until the hose stop rests against the hose guide.



CAUTION

Always hold on to the hose while it is rewinding.

4) Periodically check the hose condition for wear or damage, and check the swivel fitting for leakage. Replace any worn, damaged, or leaking parts.

Maintenance Procedures

Adjusting Spring Tension

- 1) Pull out approximately 2m (6ft) of hose and allow the drum to latch.
- 2) Remove hose stopper from hose, and feed hose back through the guide.
- 3) Wrap the hose one time around the drum to increase tension or un-wrap hose one time from drum to decrease tension.
- 4) Re-insert hose through guide, and install stopper onto the hose end.
- 5) Unlatch the Drum and check tension. Pull hose from reel, and adjust stopper position if necessary.

Replacement of Swivel Seats

- 1) Turn off the pump and release hose line pressure.
- 2) Disconnect supply line from swivel inlet.
- 3) Remove the outlet nozzle, gun or tool and hose stopper. Unlatch the reel and carefully allow the hose to slowly rewind until there is no spring tension remaining.
- 4) Manually unwind the hose assembly from the drum.
- 5) Remove the circlip from the swivel shaft, and remove the swivel body from the shaft.
- 6) Replace the swivel seals and re-fit the swivel body onto the reel axle.
- 7) Manually rotate the drum assembly (away from the roller guides) and manually recoil the hose onto the drum.
- 8) Add tension to the reel by carefully rotating the drum and hose assembly (towards the roller guides) 4 complete turns, slide the hose through the roller guides and allow the reel to latch.
- 9) Fit the hose stopper to the hose end, release the drum latch, and slowly allow the hose to slowly rewind onto the reel.
- 10) Re-connect inlet supply line.
- 11) Check all connections for leaks.

Hose Replacement

- 1) Turn off and disconnect the supply to reel and release hose line pressure.
- 2) Pull out approximately 2m (6ft) of hose and allow the drum to latch.

- 3) Remove the outlet nozzle, gun or tool and hose stopper. Unlatch the reel and carefully allow the hose to slowly rewind until there is no spring tension remaining.
- 4) Manually unwind the hose assembly from the drum. Carefully disconnect and remove the hose from shaft joint inside the reel.
- 5) Connect your new hose assembly to shaft joint in the reel.
- 6) Manually rotate the drum assembly (away from the roller guides) and manually recoil the hose onto the drum.
- 7) Add tension to the reel by carefully rotating the drum and hose assembly (towards the roller guides) 4 complete turns, slide the hose through the roller guides and allow the reel to latch.
- 8) Fit the hose stopper to the hose end, release the drum latch, and slowly allow the hose to slowly rewind onto the reel.

Spring Canister Removal

- 1) Pull out the hose approximately 1m (3ft) and latch the reel.
- 2) Remove the outlet nozzle, gun or tool and hose stopper.
- 3) Carefully unlatch the reel and firmly hold the drum. Allow the drum to slowly unwind until it stops and no spring tension remains.
- 4) Carefully remove the nuts and washers located around the drum assembly.



CAUTION

There is a large spring inside which can cause severe injury if not handled correctly.

- 5) Carefully remove both the front and back spring canister covers together as an assembly.
- 6) Carefully sit the drum canister down so as the flat inner plate flat is facing up.
- 7) Carefully remove the flat inner plate to expose the spring.
- 8) Inspect and replace the complete drum assembly if the spring is found to be damaged.



CAUTION

DO NOT under any circumstances remove the spring from the canister.

Maintenance Procedures

Spring Canister Replacement

- 1) Slide the flat inner plate over the shaft on the reel.
- 2) Check the correct orientation of the spring locating boss. Remove the boss from the middle of the spring canister and slide the boss onto the shaft on the reel.
- 3) Carefully hold the centre of the spring up in the middle of the drum, at the same time slide the drum assembly over the centre boss on the shaft.

Note: The spring will automatically locate itself into the centre boss when you re-tension the reel.

- 4) Replace all the washers and nuts around the outside of the drum assembly and securely tighten.
- 5) Turn the drum anti-clockwise until you feel the spring start to tension, then turn the drum three complete turns and latch the drum.
- 6) Feed the hose through the hose guide, fit the hose stopper, then unlatch the drum. The hose stopper should now sit snugly against the hose guide.

Latch Replacement

- 1) Working from the swivel side of the reel, remove the 4 bolts holding the swivel body to the axle, then remove the swivel body.
- 2) Remove the circlip holding the axle bearing in place.
- 3) Remove the nut and bolt holding the roller guide to the support arm.
- 4) Remove the 4 large bolts holding the support arm to the mounting bracket located below the swivel body.
- 5) Slide the support arm off the axle.
- 6) Inspect the latch assembly, and replace any worn or damaged parts.
- 7) Assembly is a reversal of the disassembly procedure.

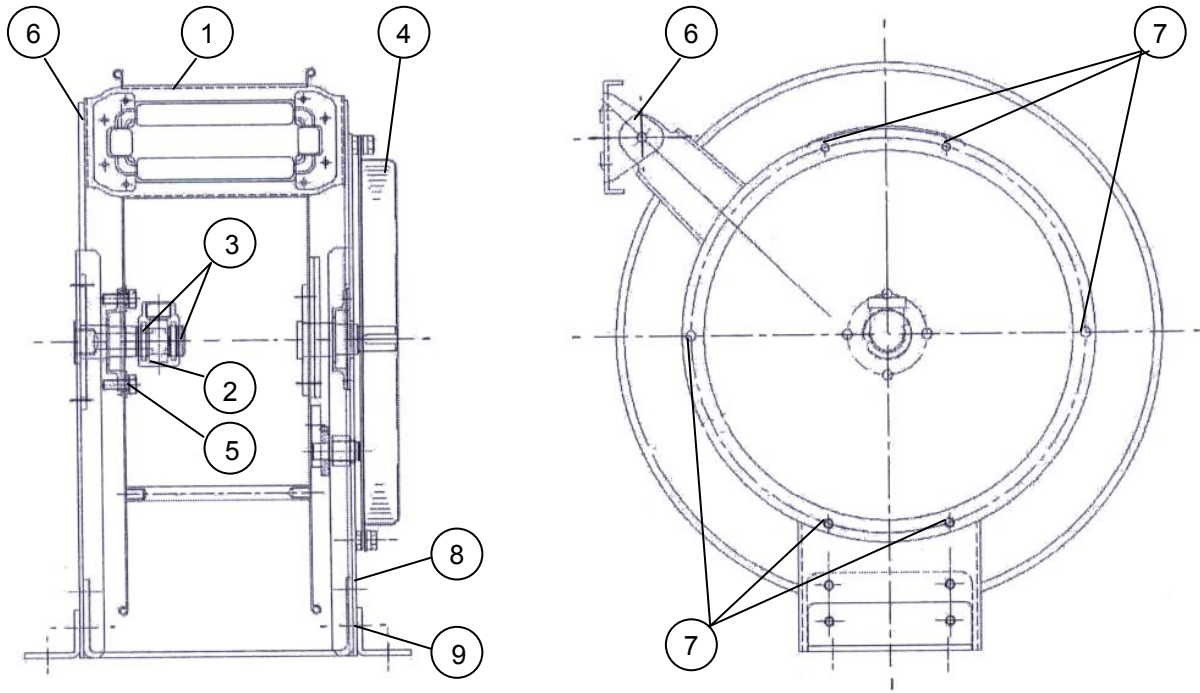
Troubleshooting Guide

Problem	Cause	Remedy
Hose does not fully retract	Outlet nozzle, gun or tool is too heavy	Add spring tension (See "Adjust Spring Tension")
	Spring is fatigued	Add spring tension (See "Adjust Spring Tension")
		Replace spring canister is required (See "Replacement of Spring Canister")
	Replacement hose is too long	Fit correct length hose (Refer to Hose Specifications")
Hose does not retract at all	Spring has broke or has lost tension	Replace spring canister is required (See "Replacement of Spring Canister")
Reel does not latch	Incorrect operation	Reel latches on first, second or third 'click'. After the third click reel automatically rewinds
	Latch assembly is worn	Replace the latch assembly
Fluid leaks from the swivel	Swivel seals are worn	Replace swivel seals. (See "Replacement of Swivel Seals")

Product Specifications

Model	Description	Hose Specifications			Reel Thread Size	Max. Operating Temperature
		I.D.	Length	Max. Working Pressure		
MDTP2520	Diesel	25mm (1")	20m	3450 kPa (500psi)	1" BSP	80°C
MATP1220	Air/Water	12.5mm (½")	20m	2070 kPa (300psi)	½" BSP	80°C
MATP1920	Air/Water	19mm (¾")	20m	2070 kPa (300psi)	¾" BSP	100°C
MOTP1220	Oil	12.5mm (½")	20m	6900 kPa (1000psi)	½" BSP	100°C
MOTP1920	Oil	19mm (¾")	20m	6900 kPa (1000psi)	¾" BSP	100°C
MGTP0615	Grease	6mm (¼")	15m	34450 kPa (5000psi)	¼" BSP	100°C
MGTP0915	Grease	9mm (⅜")	15m	27600 kPa (4000psi)	⅜" BSP	100°C
MAVTP2500	AV GAS	25mm (1")	NIL		1" BSP	80°C

Spare Part Diagram



Spare Part Listing

ITEM No	DESCRIPTION	REEL MODEL NUMBER													
		MATP1220	MATP1203	MATP1920	MDTP1920	MDTP2520	MDTP3820	MGTP0615	MGTP0915	MOTP1215	MOTP1220	MOTP1920	WPTP1050	MAVTP2500	
1	ROLLER GUIDE SET	SKRG1220	*	SKRG1920	*	SKRG2520	*	*	*	*	SKRG1220	SKRG1920	*	*	
2	SWIVEL ASSEMBLY	RW39S	RW49S	RW59S	RHA39S	RHA49S	ROA69S	RHA09S	RHA19SG	RHA35S	RHA35S	RHA59S	RW39MF		
3	SWIVEL SEAL SET (not shown)	RW40S	RW50S	RW60S	RHA40S	RHA50S	ROA70S	RHA10S	RHA20SG	RHA36S	RHA36S	RHA60S	RW40MF		
4	SPRING DRUM ASSEMBLY	SKSP1220	*	SKSP1920	*	SKSP2520	*	SKSP0615	SKSP0915	*	*	*	*	*	
5	LATCH SET	*	*	*	*	*	*	*	*	*	*	*	*	*	
6	SCREW AND NUT SET	*	*	*	*	*	*	*	*	*	*	*	*	*	
7	NUT AND BOLT	*	*	*	*	*	*	*	*	*	*	*	*	*	
8	BOLT	*	*	*	*	*	*	*	*	*	*	*	*	*	
9	BOLT	*	*	*	*	*	*	*	*	*	*	*	*	*	
10	HOSE ASSEMBLY (not shown)	HPW41S	HPW51S	HPW61S	HPA41S	HPA51S	HP071S	HPA11S	HPA21SG	HPA37S	HPA41S	HPA61S	HPW42MF	NONE	
11	HOSE STOPPER (not shown)	RW42S	RW52S	RW62S	RHA42S	RHA52S	NONE	HPS12S	HPA22SG	RHA38S	RHA42S	RHA62S	NONE	NONE	



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