

1500 / 1800 / 2000S Mini-Travellers



OPERATOR'S, PARTS, and MAINTENANCE MANUAL 2015 Edition

Revision:

TR-MAN-1500

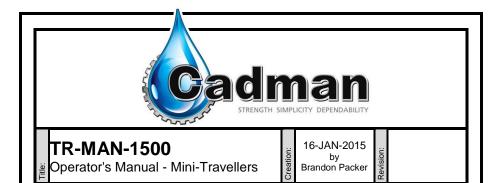


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Operator's Manual - Mini-Travellers



Cadman Mini-Travellers

We would like to thank you for purchasing your new **Cadman Mini-Traveller**. You have purchased a product of superior quality that will serve your needs for a long time provided you follow this manual and safety procedures.



Figure 1 – Cadman Mini-Travellers

img-00702

<u>BEFORE</u> operating your new **Cadman Mini-Traveller**, inspect the machine for any damage or parts which may have come loose during shipping. **REPORT ANY DAMAGE TO CADMAN POWER EQUIPMENT LIMITED OR YOUR LOCAL DEALER IMMEDIATELY!**

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Warranty Policy

CADMAN POWER EQUIPMENT LIMITED warrants that each machine it manufactures shall be free from defects in materials and workmanship. The terms of this warranty are as follows:

- All components manufactured by CADMAN POWER EQUIPMENT LIMITED shall be warranted for a period of one (1) year from the date of delivery, except the frame and hose drum structures which shall be warranted for a period of three (3) years.
- CADMAN POWER EQUIPMENT LIMITED makes no warranty whatsoever in regard to tires, motors, and other trade accessories used on its equipment. The customer shall rely solely on the warranties offered (if any) by the respective manufacturer of these trade accessories.

The sole obligation to **CADMAN POWER EQUIPMENT LIMITED** under this warranty is limited to the repair or replacement of any part it manufactured, which, in the judgment of **CADMAN POWER EQUIPMENT LIMITED**, failed under normal and proper use and maintenance due to defective materials or workmanship. All freight charges incurred shall be the sole responsibility of the customer.

CADMAN POWER EQUIPMENT LIMITED and its dealers (who are neither authorized nor qualified to undertake any obligations on behalf of CADMAN POWER EQUIPMENT LIMITED) DO NOT, under any circumstances, accept any responsibility for any losses or costs incurred due to parts failure and/or delays during the parts replacement process.

This warranty will be considered void if any alterations or modifications have been made to the machine without the express written consent of **CADMAN POWER EQUIPMENT LIMITED** outlining the nature and the extent of such modifications.

CADMAN POWER EQUIPMENT LIMITED, whose policy is one of continuous improvement, reserves the right to change specifications and designs without notice or incurring obligation.

The warranties expressed herein are non-transferable and replace any other warranties, either written or verbal, which may have been given or implied.

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Safety Precautions



Please take the time to read and <u>understand</u> this manual so that unnecessary errors and risks are avoided. If you have any questions or concerns, please contact **Cadman Power Equipment Limited** or your local dealer/distributor.

- **DO NOT** move or operate this machine until you have read and understand the instructions in this manual.
- **NEVER** allow untrained persons to operate this machine.
- DO NOT attempt to service this machine while it is in operation.
- MAKE CERTAIN all mechanical tension has been released and the battery is disconnected before attempting any service on the machine.
- MAKE CERTAIN all water pressure has been released before removing supply lines or adjusting sprinkler. Pressurized water can be trapped within the supply hose when the automatic sprinkler shut-off is engaged.
- CHECK all fasteners (nuts and bolts) regularly for tightness.



- PERFORM REQUIRED MAINTENANCE as prescribed or as necessary to keep this machine in safe operating condition.
- KEEP ALL SPECTATORS at a safe distance.
- STAY CLEAR of high pressure supply lines, especially when first pressurizing the system.
- **STAY CLEAR** of power lines. Contact with power lines with irrigation water WILL result in the machine being a conductor of electricity.
- DO NOT remove or alter any shielding on this machine.
- **BE CERTAIN** that the machine is securely anchored (using stabilizer feet) before unwinding the hose.
- KEEP CLEAR of all moving parts.
- **NEVER** tow this machine at speeds greater than **10 mph / 16 km/h** and be certain the tow vehicle has adequate braking capacity to maintain safe control at all times.
- **REGULAR INSPECTION** of your pipe couplings, tubing and gaskets should be a part of your regular set-up routine. Any defective parts MUST be replaced or repaired before the machine is put into service.



This symbol, the <u>safety-alert symbol</u>, indicates a hazard. When you come across the safety-alert symbol in this manual, make certain you fully understand and abide by the given instructions or warnings.

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Safety Decals

Cadman Power Equipment Limited has determined the potential hazards and has labeled the machine accordingly. The safety decals on this machine are intended to warn the operator of potential hazards.

A DANGER A WARNING A CAUTION

Figure 2 - Signal Word Panels

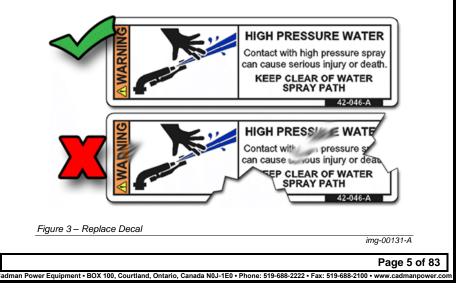
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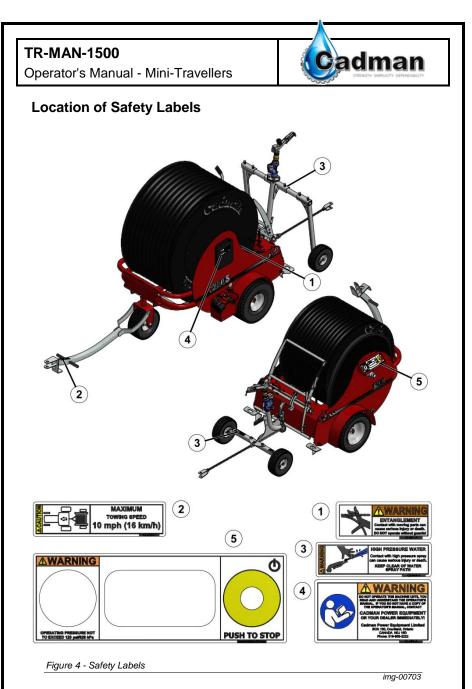
Each safety decal on this machine contains a Signal Word Panel which indicates the degree of hazard. Definitions of the Signal Words are as noted below...

- DANGER an imminently hazardous situation that, if not avoided, WILL result in death or serious injury.
- WARNING a potentially hazardous situation that, if not avoided, could result in death or serious injury, and include hazards that are exposed when guards are removed.
- CAUTION a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

It is important that these decals are properly maintained.

- keep all safety decals legible (remove dirt or debris)
- replace any damaged or illegible decals
- replace any missing decals
- if applicable, install the current safety decal specified by **Cadman Power** Equipment Limited on any components installed during repair





For part numbers and quantities required please refer to the decal listing on page 54.

To obtain the required replacement safety decals contact **Cadman Power Equipment Limited**. Re-install all decals in the proper location on the machine.

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Planning Your Application

You will benefit from having an accurate plan to follow before you set-up or operate your equipment. When creating your plan, remember that a properly planned field layout will cover the most area with the least amount of set-up time.

Step 1 - Field Preparation:

Determine the depth of application in inches.

 Irrigating deeper than the root zone is considered over watering. The most common depth for turf is between 0.2 – 0.3 inches (5 – 7.5 mm).

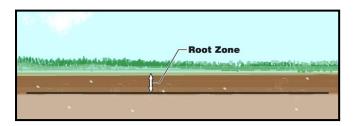


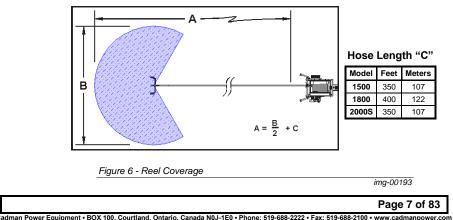
Figure 5 - Root Zone - Depth of Application

img-00197

Step 2

Divide your field into the least number of sections to obtain complete coverage.

• First determine the area you plan to irrigate. If your field width is greater than what can be achieved with one (1) pull you will be required to divide the field into the least number of sections to reduce set-up time. Use your sprinkler performance data tables to determine the coverage of your **Cadman Mini-Traveller**. The sprinkler should be set-up so that the spray diameter is covered plus sufficient overlap (beyond the edge of the crop) to provide adequate watering at the edge of the field.



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NOTE

(1)

(2)

affected

Partial Pattern

Full Pattern

210° - 270°

ima-00200

are two

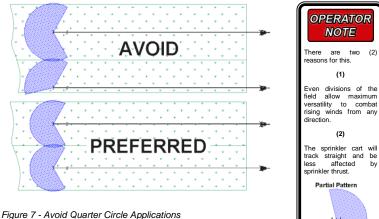
(2)

bv



You MUST leave as a MINIMUM one (1) coil of hose on the drum at all times. Failure to do so WILL result in hose damage.

- Customize your application by choosing the right nozzle and pressure combination to accommodate the area to be irrigated. Changing the nozzle size and adjusting the water pressure can improve your irrigation plan. See the next step.
- Avoid guarter circle (partial pattern) operations while irrigating. During guarter circle operation, sprinkler thrust tends to steer the sprinkler cart in the direction of the water being thrown. Reduce the size of the sprinkler nozzle and water pressure to reduce the diameter of spray. Remember the retrieve rate WILL require adjustment to accommodate the reduced flow.



ima-00199

- If conditions dictate that a quarter circle (partial pattern) pass is unavoidable, prepare the travel lane with a shallow trench for the hose to follow. Adding extra weight to the rear of the sprinkler cart is also beneficial. If these preparations are not possible or prove inadequate you must adjust your set-up to allow for a full spray pattern.
- During normal operation, (full pattern the sprinkler operates to both sides of the cart) sprinkler thrust will correct this steering action automatically. The side to side movement of the cart should be no more than the width of the carts rear tube. (where hose and sprinkler cart are connected)
- Cadman Power Equipment Limited does NOT recommend a curved hose pull out. This puts the equipment into a situation where it could become damaged. If a curved pull is necessary, pull a minimum of 50 feet (15.25 m) of hose straight out from the machine prior to beginning a long gradual curve. The arc or curve must **NOT** form a ninety degree (90°) bend.

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Step 3A

Complete the following steps to determine your retrieve rate (desired width).

- Determine what inlet pressure is available while the sprinkler is working.
- Using Table 1 on page 10, find the closest width to what is required. Be sure the inlet pressure shown for that row is equal to or less than your available pressure.
- The width noted in Table 1 is the wetted areas. This means the sprinkler will project water approximately 15% further than listed. This allows for proper coverage. For actual spray diameter of the sprinkler refer to Appendix A – Sprinkler Data on page 76.
- Read nozzle size from the Table.
- Choose the application depth, then read your retrieve rate in inches per minute.

Example 1:

Using a 1500 traveller with an inlet pressure of 35 psi, determine retrieve rate required to apply 1/2" to a 90 ft wide area.

- 8 mm 34 PSI 90' width 6.5 inches/minute
- 9 mm 37 PSI 92' width 7.9 inches/minute

Step 3B

Complete the following steps to determine your retrieve rate (known nozzle size).

- Determine what inlet pressure is available while the sprinkler is working.
- Using Table 2 on page 10, find the nozzle and pressure combination you are using.
- Choose the application depth, then read your retrieve rate in inches per minute.
- The width noted in Table 2 is the wetted areas. This means the sprinkler will project water approximately 15% further than listed. This allows for proper coverage. For actual spray diameter of the sprinkler refer to Appendix A Sprinkler Data on page 76.

Example 2:

Using a 1800 traveller with an 10 mm nozzle and an inlet pressure of 70 psi, determine retrieve rate required to apply 3/4" to the irrigated area.

From Table 1, the following combination is identified:

• 10 mm - 70 PSI - 205' width - 5.5 inches/minute

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If the sprinkler is not spraying water, the reading on the pressure gauge will be higher than actual available pressure. It is important to have the sprinkler in action to get a true reading.

If the pressure at the irrigation sight is inadequate you may require a booster pump. See page 60 for the Cadman Booster Pump option.



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Keep in mind that the charts should be used as a guide only. Always check the actual application amount with rain gauges to confirm your retrieve rate is correct.

1500 SIME - K1

Nozzle	Inlet	Wetted Area	Retri	eve Rate in	Inches/Mi	inute
Size	Pressure			Applicatio	n Depth	
	PSI	Width'	1/4"	1/2"	3/4"	1"
	25	82	12.2	6.1	4.1	3.0
0	34	90	13.0	6.5	4.3	3.2
8 mm	51	100	14.0	7.0	4.7	3.5
	69	108	15.0	7.5	5.0	3.8
	28	86	14.6	7.3	4.9	3.7
0	37	92	15.7	7.9	5.2	3.9
9 mm	55	102	17.3	8.6	5.8	4.3
	74	110	18.4	9.2	6.1	4.6
	31	90	17.3	8.6	5.8	4.3
10 mm	41	94	19.0	9.5	6.3	4.8
	61	108	20.2	10.1	6.7	5.0
	81	115	21.9	11.0	7.3	5.5
	39	90	25.0	12.5	8.3	6.3
12 mm	52	100	25.9	12.9	8.6	6.5
	77	110	28.6	14.3	9.5	7.1
	102	123	29.6	14.8	9.9	7.4

Table 1 - 1500 SIME - K1

1500/1800/2000S KOMET - TWIN MAX

Nozzle	Inlet	Wetted Area	Retrieve Rate in Inches/Minute Application Depth			
Size	Pressure PSI					
		Width'	1/4"	1/2"	3/4"	1"
	30	148	14.7	7.3	4.9	3.7
10	50	177	15.9	7.9	5.3	4.0
10 mm	70	205	16.4	8.2	5.5	4.1
	100	235	17.0	8.5	5.7	4.2
11 mm	30	156	16.8	8.4	5.6	4.2
	50	188	18.3	9.2	6.1	4.6
	70	215	19.0	9.5	6.3	4.7
	100	246	19.9	9.9	6.6	5.0
	25	148	19.6	9.8	6.5	4.9
10	45	190	20.5	10.3	6.8	5.1
12 mm	65	218	21.6	10.8	7.2	5.4
	90	248	22.3	11.1	7.4	5.6
	25	156	21.5	10.7	7.2	5.4
13 mm	45	200	22.6	11.3	7.5	5.7
	65	228	23.8	11.9	7.9	6.0
	90	259	24.8	12.4	8.3	6.2

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Step 4

Determine the best position for your reel in each section.

 The best start position for your reel is at the center of the furthest section away from the source of water. By doing this your subsequent setups will not require additional water source changes.



Ensure you abide by local by-laws and regulations for water usage. Cadman Power Equipment Limited recommends that you consult with your local water authority.

Where field conditions permit, always attempt to pull the hose either up or down sloping terrain instead of operating on the side of a hill. If a side hill condition is unavoidable, provide a hilled trench as a guide for the hose and add extra weight to the sprinkler cart to prevent upset.



The hose will slide down the hill if a trench is not created. The hose will become much heavier once water is introduced. Failing to provide a trench will result in serious equipment damage and could result in you and/or your spectators being injured.

 Obstacles will play a big part in the planning process. If an obstacle interferes with the area to be irrigated an adjustment to the plan will be required.



Figure 8 - Obstacles in Plan

img-00234

The hose will naturally take the shortest path (a straight line). Without resistance such as a contour, trench or a furrow the hose will tend to straighten. The sprinkler cart will make contact with any obstacle if there is no resistance. Failure to provide a form of resistance will result in serious equipment damage and could result in you and/or your spectators being injured.

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Equipment Set-up

Now that you have created a plan you are ready to set-up your **Cadman Mini-Traveller** in the field. Complete the following instructions to prepare for irrigation.

Step 1

Following your plan, choose transport method. Choose from hand operation or towable operation.

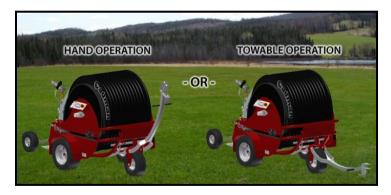


Figure 9 - Choose Transport Method

img-00704

Step 2

Engage the drive system then tow the machine to the first section.

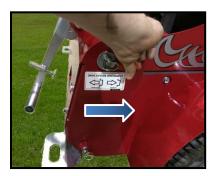


Figure 10 - Engage Drive System Prior to Transport

img-00711



It is important to verify that the drive system is engaged prior to moving your Cadman Mini-Traveller. Failure to do so can result in equipment damage.

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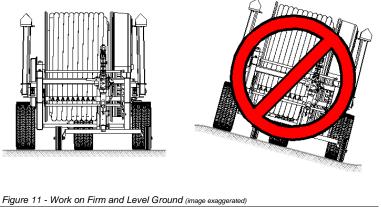
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Step 3

To allow for better coverage, park the reel 5 ft. (1.5 m) minimum from the beginning of the section to be irrigated.

Keep the machine on firm and level ground.



img-00330

Step 4

Disconnect your machine from the towing vehicle. (If applicable)

Step 5

Ensure the ground where the machine is set-up is soft enough for the stabilizer feet to penetrate the surface. The machine may require anchoring if the ground is too hard.



Figure 12 - Engage Stabilizer Feet

img-00706

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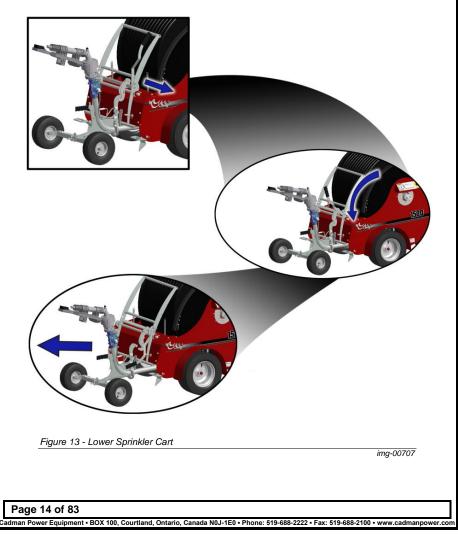




Failure to engage stabilizer feet will result in serious equipment damage and potential for injuries to you and/or spectators.

Step 6

Lower the sprinkler cart from the transport bracket by pulling the Spring Plunger to release the handle leaver, then pulling the handle downward to lower the sprinkler cart to the ground. Then simply pull the sprinkler cart away from the mini traveller. Raise the Mini traveler sprinkler cart handle back up to the home location and use the spring plunger to lock it back in place. To pick the sprinkler cart back up follow these instructions in reverse.





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Step 7

Disengage the drive system before towing the sprinkler cart out.

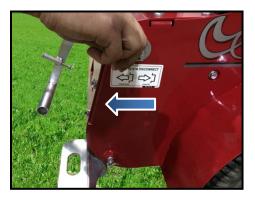


Figure 14 - Disengage Drive System Prior to Towing Out Sprinkler Cart

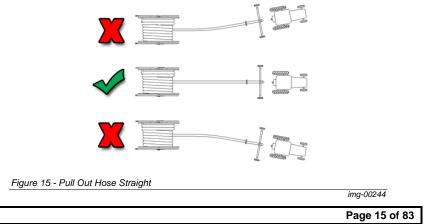
imq-00705

It is important to verify that the drive system is disengaged prior to moving the sprinkler cart on your Cadman Mini-Traveller. Failure to do so can result in equipment damage.

Step 8

Tow the sprinkler cart to the start point of irrigation. Always leave a minimum of one (1) wrap of hose on the drum. When pulling the hose out, keep it straight. If obstacles require you to change your path, make the change gradual.

The hose will naturally take the shortest path. Without resistance such as a contour, trench or a furrow the hose will tend to straighten. You may have to adjust your irrigation plan to accommodate for obstacles. (Refer to "**Planning Your Application**" on page 7.)



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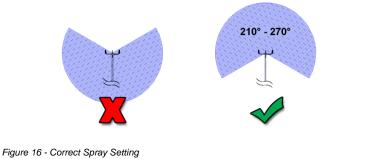
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DO NOT exceed 3 mph (5 km/h) while pulling out the hose. DO NOT stop suddenly at the end of your travel lane. Slow gradually when nearing the end of the pull. Keep spectators away from the machine while pulling out the hose. Failure to follow these instructions may result in serious equipment damage and potential for injuries to you and/or spectators.

Step 8

Verify the sprinkler set up is correct and install the correct nozzle. Also at this time, set the part circle stops on the sprinkler. The sprinkler should be set behind the cart so that the travel path remains dry until the cart passes.



img-00201

Step 9

Your **Cadman Mini-Traveller** is equipped with an auto sprinkler shut-off system. This system will stop the flow of water to the sprinkler at the end of each retrieve cycle.



When the Auto Shut-off System is used, there WILL be a pressure spike within the supply circuit. Take the appropriate precautions to prevent equipment damage and/or injury to you and/or spectators.

If you do not have appropriate precautions in place (i.e. automatic pump shut down) DO NOT use this feature!

Disabled

If you would like to disable the automatic water shut-off, turn the ball valve to the off position. Water will continue to flow once the sprinkler cart has been retrieved. No further sprinkler cart adjustments are required.

Enabled

The valve trigger should be pulled away from the valve and valve button pushed in towards the hose end of the sprinkler cart. Turn the ball valve to the open position. This will allow water flow to the sprinkler. When the sprinkler cart has been retrieved the valve trigger will shift the water shut-off valve and stop the flow of water to the sprinkler.

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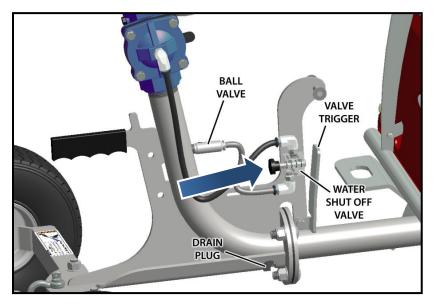
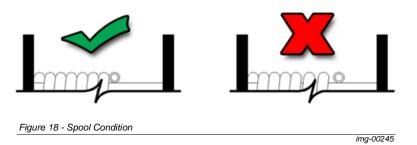


Figure 17 - Water Shut Off Valve

img-00708

Step 10

Return to the machine and inspect the hose remaining on the drum. The hose should be tightly coiled and not loose. If the hose is loose, tighten the coils so that they form a neatly packed spool. Rotate the drum if necessary.



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Step 11

Inspect the indexer. The hose should travel in a straight line through the hose guide. If the hose is angled through the indexer refer to the "Indexer Adjustment Instructions" found on page 73.

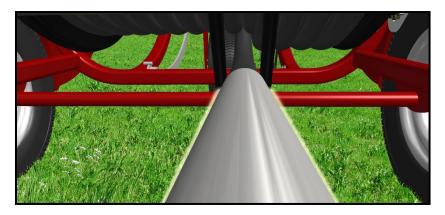


Figure 19 - Indexer / Hose Alignment

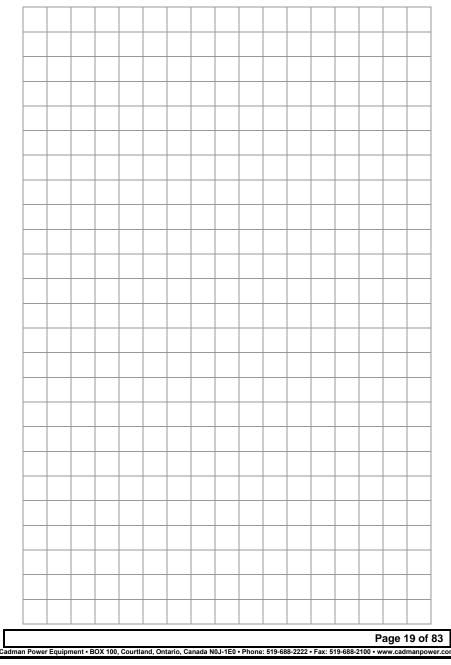
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Notes



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Beginning Irrigation

Once you have successfully set-up your ${\ensuremath{\textbf{Cadman}}}$ ${\ensuremath{\textbf{Mini-Traveller}}}$ you can begin irrigating.

Step 1

Clear the area of operation of spectators prior to starting irrigation.

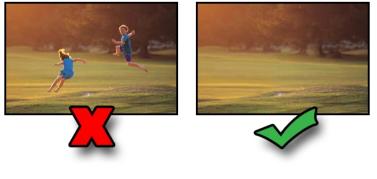


Figure 20 - Clear Irrigation Zone

img-00336

The irrigation sprinkler projects a large volume of pressurized water. Contact with the sprinkler's discharge will result in injury. Avoid the area where irrigation is taking place.

Step 2

Connect the main water supply line to your machine. Make sure the hose sweeps in a gentle arc away from the control area of the machine.



Figure 21 - Supply Layout

img-00710

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Step 3

GRADUAL pressurization of the system may now begin. Keep the pressure low (under 20 psi [138 bar]) until **ALL** air is purged from the system and a steady stream is flowing from the sprinkler nozzle. **AFTER** all the air is purged from the system, pressure may be slowly increased to the maximum operating pressure of 120 psi (8.3 bar).

Now you are ready to begin the hose retrieval.

Step 4

Before the power is turned on, engage the drive system. The clutch has angled faces to allow for easy meshing if the power is already on and the drive is engaged while it is running. When the drive faces line up, the clutch will engage.

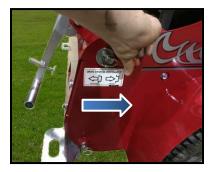
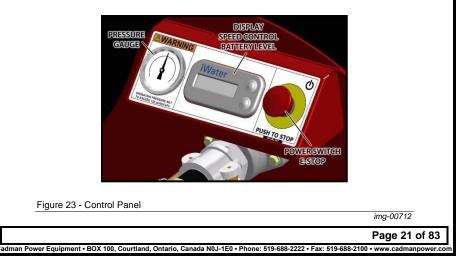


Figure 22 - Engage Drive System

img-00711

Step 5

Pull the power switch (red button) to turn on the power to the unit.



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Step 6

Once the display screen is done loading, it will tell you to set the speed using buttons as shown in the figure below. Set the desired retrieval speed by pushing the upper button beside the display. You can decrease the retrieval rate by pressing the lower button



Figure 24 - Adjust Retrieval Speed

img-00713

Retrieval speed can be confirmed by measuring the amount of hose retrieved in one minute using a measuring tape and a wax marker.

Step 7

Once the machine starts to retrieve the hose you must test the Shut-off System to verify it is in working order. Rotate the shut-off bar to actuate the Shut-off System. If the retrieval stops, release the shut-off bar to continue the retrieval. If not, stop use of the machine and contact **Cadman Power Equipment Limited** or your local dealer for further instructions.



Figure 25 - Verify Shut-off System

img-00714

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Operator's Manual - Mini-Travellers

Completing Irrigation

Step 1

Once the sprinkler cart has returned to the traveller, turn off the water supply. Depressurize the supply line. You can view the remaining pressure in the system by looking at the pressure gauge on the control panel or the pressure gauge on the sprinkler cart. To depressurize the hose on the traveller, press the water shut-off valve inwards, toward the front of the traveller and the excess water pressure will release out of the sprinkler head.



Figure 26 – Water Pressure Release

img-00739

Water under pressure can be very dangerous. Please use proper methods to bleed the supply line prior to disconnecting from the traveller. Failure to properly bleed the pressure can result in equipment damage and potential for injuries to you and/or spectators.

Keep clear of the sprinkler nozzle when bleeding the remaining pressure from the hose. Failure to stay clear of the sprinkler nozzle when bleeding off the excess pressure could result in potential injuries to you and/or spectators.

Step 2

Once all the pressure has been released from the line, disconnect the supply line to prepare the machine for transport. Leave the machine drive system engaged during transportation to keep tension on the hose drum.

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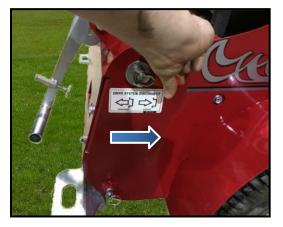


Figure 27 - Engage Drive System

img-00711

DO NOT move your Cadman Mini-Traveller without properly preparing it for transport. Failure to engage the drive system and lifting the sprinkler cart will result in equipment damage and may result in injury to you and/or spectators.

Step 3

Complete any required maintenance as prescribe in the "**Required Maintenance**" section found on page 70.

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Operator's Manual - Mini-Travellers

Battery Exchange/Charging

The battery level percentage shows up on the iWATER display screen when the unit is in running operation mode.



Figure 28 - Battery Level Percentage

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img-00715
```

When the battery reaches (20% of discharge), **Cadman Power Equipment Limited** recommends that it be exchanged with the secondary (back-up) battery. Complete the following step and abide by safety warnings/precautions.



Running the charge level below 20% can reduce the battery life or even make it inoperable.

Never connect Battery Charger directly to the machine. Connecting the charger to the machine WILL result in equipment damage and potential for personal injury. Fire may also occur resulting in equipment/property damage.

Due to the high chance of water being near the machine due to its designed purpose it is important never to charge the battery while it is installed on the machine.

Step 1

Ensure machine is powered off by pushing the main power switch (red button) to the off position.

Step 2

Remove the discharged battery by disconnecting the power plug, and then open the battery retainer. Carefully lift the battery out of the tray.



Only use the red plug handle to disconnect the battery. Never pull directly on the wires. Failure to use the handle may result in battery and/or equipment damage as well as a potential for personal injury.

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Figure 29 - Remove Discharged Battery

img-00716 & img-0717

Step 3

Install the freshly charged battery, and close the battery retainer. Then connect the battery connector.

Step 4

Bring the battery to your charging station. This area must be a well ventilated area. Use the supplied battery charger (p/n 42-302-KIT) only. Ensure that the charger is plugged into a 110 volt outlet that has been properly installed with a ground according to your local electrical code. Now connect the battery until the charged LED is on. Once the battery has been charged, disconnect the charger from the outlet.



Figure 30 - Supplied Battery Charger

img-00479

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LED Indicators

POWER ON (green) LED: Indicates the charger is connected to AC power source and is receiving power.

CHARGED (red) LED: Indicates the battery is fully charged and the charger is in the maintain mode.



Never alter the cord or plug that is provided with this charging unit. An improper connection can result in a risk of electrical shock and/or electrocution. Never leave the charger plugged in without a battery connected being charged.

It is preferred not to use an extension cord, however if required use an extension cord with a wire no smaller than 18 gauge (0.82 mm^2). Using a wire smaller than 18 gauge (0.82 mm^2) can result in fire.



Never smoke or allow a spark or open flame in the vicinity of a battery. The gasses discharged during charging and regular operation are very explosive. Failure will result in an explosion resulting in fire and personal injury.

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Solar Panel Charger Option

A time saving method of charging your mini traveller is the Solar panel option to increase run time for your irrigation needs. **Cadman Power Equipment Limited** offers a solar panel package to meet your requirements. You can select the solar panel option (TR-OPT-SOL2) when you purchase your mini traveller which will replace the extra battery kit and charging unit. There is also a solar panel kit that you can purchase afterwards. To mount and operate your solar panel kit, complete the following instructions:

Step 1

Mount the solar panel to the front of your mini traveller unit using the supplied $\frac{1}{2}$ inch bolts, washer and nuts.

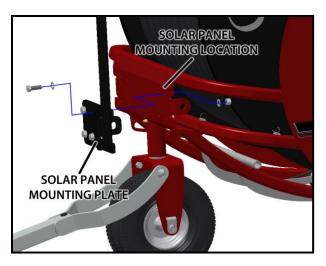


Figure 31 - Fastening Solar Panel to the Traveller

img-00734

Step 2

Once you have fastened the Solar panel to the traveller review page 58 the Solar Panel Harness section to wire the Solar panel harness to the back of the battery connector plug on the main harness (61-311-A) of the traveller. Before wiring the booster pump to the traveller make sure the battery is disconnected from the unit, also make sure the E-stop is depressed on the control panel.



If the battery is not disconnected, STOP and disconnect the battery plug from the equipment. Failure to disconnect the battery from the equipment before hooking up the wiring harness could result in equipment damage and may result in serious injury to you and/or spectators.

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Step 3

Use the cable tie anchors (42-647) and cable ties (42-391) to secure the solar panel harness in place. Make sure the harness is secure to the frame and cannot be caught on the hose drum of the traveller.

WARNING: Unsecure and loose wires can become caught and may cause damage to the equipment.

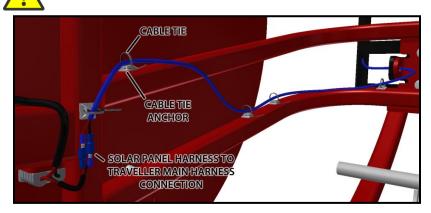


Figure 32 – Solar Panel Harness Tie Down and Connections

img-00735

Step 4

Once the harness is connected and anchored down, plug the battery back into the traveller, and pull the E-stop out to turn the power **ON**. Verify that the solar panel is working by placing the unit in a sunny location. Check the battery percentage on the control panel screen, record the percentage, then come back in about 10 mins and the percentage should be higher then what was recorded.



Figure 33 - Solar Panel Assembly Completed

img-00736

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Booster Pump Options

In some cases you may be required to use a booster pump to increase water flow or pressure for your irrigation needs. **Cadman Power Equipment Limited** offers booster pump packages to meet your requirements.

Here is a list of booster pump options:

1500/1800 – 5.5hp Ace GE 660 Pump (TR-OPT-BPA55) 1500/1800 – 5.5hp Cornell 1.5 WH Pump (TR-OPT-BPC55) 1800/2000S – 9hp Ace GE 860 Pump (TR-OPT-BPA9) 1800/2000S – 9hp Cornell 2.5 WH Pump (TR-OPT-BPC9)

To mount and operate your booster pump complete the following instructions:

Step 1

Mount the booster pump to the front of your mini traveller unit using the locator pin and supplied $\frac{1}{2}$ inch bolts, washer and nuts.

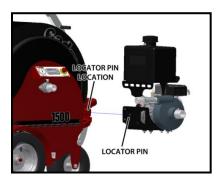


Figure 34 - Mounting the Booster Pump to the Traveller

img-00718



Figure 35 - Fastening the Booster Pump to the Traveller

img-00719

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Step 2

Once you have fastened the booster pump to the traveller review page 68 the Booster Pump Harness section to wire the Booster Pump Harness to the E-stop and Shut-off switch of the traveller. Before wiring make sure the battery is disconnected from the unit.



Make sure to disconnect the battery plug from the equipment. Failure to disconnect the battery from the equipment before hooking up the wiring harness could result in equipment damage and may result in serious injury to you and/or spectators.

Step 3

Connect your water supply to the booster pump suction. Then connect the booster pumps discharge to the inlet feeder pipe of the traveller.

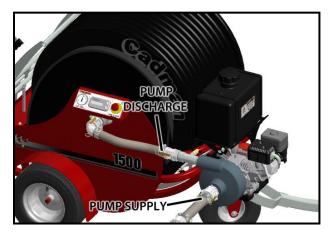


Figure 36 – Booster Pump Discharge/ Supply Lines

img-00720

Step 4

Prime the pump by filling the casing and supply line with water.



WARNING: DO NOT run the pump before priming it, the seal and impeller could become permanently damaged.

Step 5

Check the Fuel level and Oil level before starting the engine. Once you confirmed the fluid levels, turn the engine **ON** by pulling the pull cord on the side of the Honda engine.

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Figure 37 - Booster Pump Pull Cord

img-00721

If you are using the automatic sprinkler shut-off system the booster pump will automatically shut down. The pump is equipped with a flow switch that will cut power to the unit.

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Symbol Legend

L→	Model Variations
•	Standard Equipment
0	Optional Equipment
•	Complete Assembly
۲	Special Tool Required
AR	As Required
N/A	Not Available

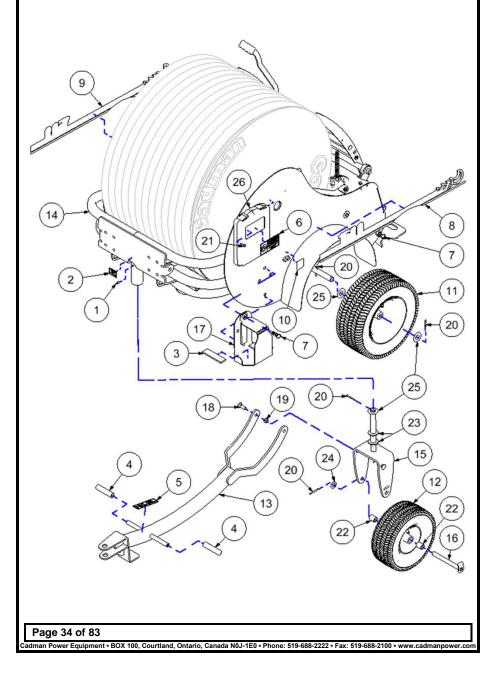
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Frame Assembly





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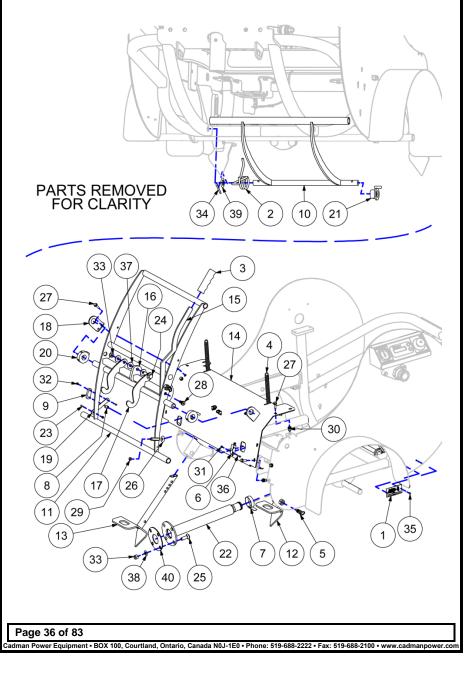
Frame Assembly

tem		Part Number	Qt
1	GREASE FITTING - 1/8 NPT	40-001	2
2	LABEL - GREASE POINT	40-041-A	2
3	ROUGH TOP BELT - 1 3/8" x 5"	40-093-05	3
4	HAND GRIP - 0.75 X 4.00	42-019	2
5	LABEL - MAX TOW SPEED	42-033-A	1
6	LABEL - OPERATOR MANUAL	42-050-A	1
7	SPRING PLUNGER - HAND RETRACTABLE	42-547	3
8	DECAL - 1500 SIDE FRAME L.H.	42-DCL-1500L	1
╘	DECAL - 1800 SIDE FRAME L.H.	42-DCL-1800L	1
L,	DECAL – 2000S SIDE FRAME L.H.	42-DCL-2000SL	1
9	DECAL - 1500 SIDE FRAME R.H.	42-DCL-1500R	1
L,	DECAL - 1800 SIDE FRAME R.H.	42-DCL-1800R	1
L,	DECAL – 2000S SIDE FRAME R.H.	42-DCL-2000SR	1
10	LABEL - DISCONNECT	42-LBL-007	1
11	TIRE - 16 X 6.5 X 8 4 PLY	55-145	2
4	TIRE - 16 X 8.5 X 8 4 PLY_ON 1800/2000S	55-150	2
12	TIRE - 13 X 5 X 6 4PLY	55-176	1
13	TONGUE WELDMENT – 1500	61-200-000	1
4	TONGUE WELDMENT – 1800/2000S	67-200-000	1
14	FRAME WELDMENT - 1500	61-400	1
4	FRAME WELDMENT - 1800/2000S	67-400-000	1
15	STEERING YOKE WELDMENT	61-602-000	1
16	AXLE WELDMENT - FRONT HUB	61-603-000	1
17	KIT - BATTERY BOX	61-625-000	1
18	BOLT CARRIAGE - 1/2-13 X 1 1/2	90-BLT-CG05013X150	2
19	NUT LOCK - 1/2-13	90-NUT-LOC050-13	2
20	COTTER PIN, 3/16 X 1.75 LG	90-PIN-CT019X175	7
20	TEK SCREW - 1/4" X 3/4"	90-SCR-TEK025X075	2
22	SPACER - 27/64ID X 1.05OD X 2 11/16	90-SPR-085X105X125	2
22	WASHER FLAT - 1.00	90-WSR-FLT100	2
23	WASHER FLAT - 1.00 WASHER SAE - 3/4	90-WSR-SAE075	2
24	WASHER SAE - 3/4 WASHER SAE - 1.00	90-WSR-SAE075	2
26	MANUAL PAK - SMALL ASSEMBLY	TR-MAN-SMPAK	1
		-	
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Frame Assembly Continued





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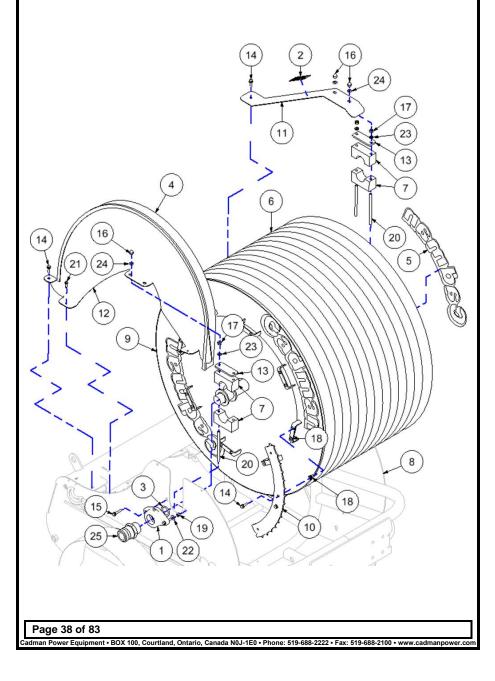
Frame Assembly Continued

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RT LIFT HANDLE WELDMENT - 1800/2000S KAGE - CART LIFT		
KAGE - CART LIFT	01-011-000-A	1
	61-612-000-A	1
	61-613-000-A	2
	61-614-000	1
PORT – SHUTOFF BAR PORT – SHUTOFF BAR - 1500		
	61-629	2
K - SPEED COMP.	61-635-000	1
PP - 1.00" COLLAR	61-621-000	2
P - 3/4" SHUTOFF BAR	61-622-000	1
SE FLANGE WELDMENT - 1500	61-910-000	1
SE FLANGE WELDMENT - 1800	67-910-000	1
SE FLANGE WELDMENT – 2000S	67-911-000	1
T - #08-32 X 3/4	90-BLT-00832X075	2
T - 1/2-13 X 2.00	90-BLT-05013X200	1
T CARRIAGE - 1/2-13 X 1 1/2	90-BLT-CG05013X150	4
T ELEVATOR - 5/16-18 X 3	90-BLT-EL03118X300	1
T FLANGE HEAD - 5/16-18 X 1.00	90-BLT-F03118X075	8
T SHOULDER - 3/8-16UNC X 5/16"	90-BLT-SH03816X031	2
- HEX - 5/16-18	90-NUT-HEX031-18	1
EADED INSERT - 5/16-18 SHORT	90-NUT-HTR03118S	6
LOCK - #06-32	90-NUT-LOC006-32	2
LOCK - #08-32	90-NUT-LOC008-32	2
LOCK - 1/2-13	90-NUT-LOC050-13	5
TER PIN, 3/16 X 1.75 LG	90-PIN-CT019X175	1
ET - 3/16 X 5/16 LG.		2
		2
SHER FLAT - 1/2		4
		4
		1
		1
NGE GASKET - 1 1/2, 4 BOLT		
T ET SH	ER PIN, 3/16 X 1.75 LG - 3/16 X 5/16 LG. IINE SCREW PAN - #6-32 X 1 1/8 PHILLIPS IER FLAT - 1/2 IER SAE - 1/2 IER SAE - 3/4	ER PIN, 3/16 X 1.75 LG 90-PIN-CT019X175 - 3/16 X 5/16 LG. 90-RIV-019X031 IINE SCREW PAN - #6-32 X 1 1/8 PHILLIPS 90-SCR-PH00632X113 IER FLAT - 1/2 90-WSR-FLT050 IER SAE - 1/2 90-WSR-SAE050 IER SAE - 3/4 90-WSR-SAE075

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Drum Assembly





Operator's Manual - Mini-Travellers

Drum Assembly

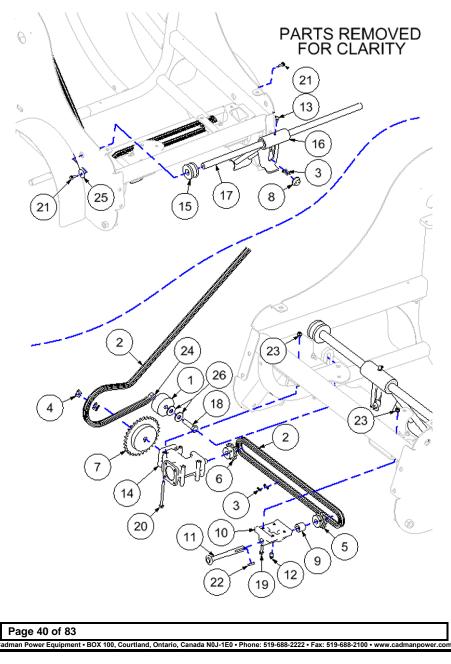
em		Part Number	Q
1	HOUSING - SWIVEL MACHINE	33-326	1
₽	HOUSING - INLET MACHINE - 1800/2000S	62-305	1
2	LABEL - ENTANGLEMENT	40-051-A	1
3	O-RING - 1 5/8 ID X 2 OD X 3/16 W	42-037	1
L →	O-RING - 2 1/4 ID X 2 1/2" OD X 1/8 W - 1800/2000S	42-RNG-228	1
4	EDGE GRIP - RUBBER SEAL – 64.5"	42-303	1
5	DECAL - DRUM R14"	42-DCL-010	4
6	HOSE - 1.80 OD X 1.50 ID X 350FT	50-130-350	1
╘	HOSE - 1.819 ID X 2.15 OD X 400FT - 1800	50-101-400	1
L,	HOSE - 1.971 ID X 2.3 OD X 350FT - 2000S	50-101-350	1
7	BEARING	61-303	2
L,	BEARING - 1800/2000S DRUM	67-303	1
L ,	BEARING - 1800/2000S DRUM	28-606-A	1
8	FRAME WELDMENT	61-400	1
L,	FRAME WELDMENT - 1800/2000S	67-400-000	1
9	DRUM WELDMENT	61-501-000	1
<u> </u>	DRUM WELDMENT - 1800	67-500-000	1
4	DRUM WELDMENT - 2000S	67-550-000	1
10	SEGMENT - GEAR DRIVE 180 TEETH	61-503	4
11	SHIELD WELDMENT - INDEXER CHAIN	61-610-100	1
4	GUARD - INDEXER CHAIN - 1800/2000S	67-610-100	1
12	DRIVE CHAIN SHIELD	61-610-200	1
ц.	DRIVE CHAIN SHIELD WELDMENT - 1800/2000S	67-610-200	1
13	BEARING BLOCK PLATE	61-617-000	2
4	BEARING BLOCK PLATE - 1800/2000S	28-623	2
14	BOLT FLANGE HEAD - 5/16-18 X 1.00	90-BLT-F03118X100	18
15	BOLT FLANGE HEAD - 5/16-18 X 1 1/2"	90-BLT-F03118X150	2
16	NUT ACORN - 3/8-16UNC	90-NUT-ACN038-16	4
17	NUT HEX - 3/8-16	90-NUT-HEX038-16	4
18	THREADED INSERT - 5/16-18 SHORT	90-NUT-HTR03118S O	. 16
19	NUT LOCK - 5/16-18	90-NUT-LOC031-18	2
20	THREADED ROD - 3/8-16 X 6.00"	90-ROD-03816X0600	4
21	TEK SCREW - 1/4 X 1.00	90-SCR-TEK025X100	2
22	WASHER FLAT - 5/16	90-WSR-FLT031	2
23	WASHER LOCK - 3/8	90-WSR-LOC038	4
24	WASHER SAE - 3/8	90-WSR-SAE038	4
25	CAM LOCK - F150	IR-CAM-150/F	1
 	CAM LOCK - F200 - 1800/2000S	IR-CAM-130/F	1
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Indexing System



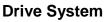


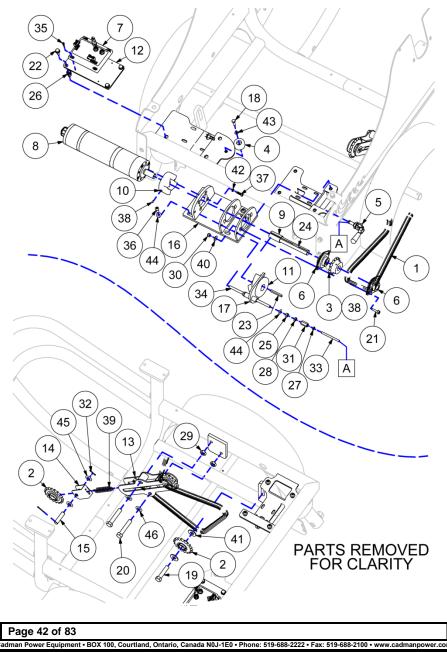
Operator's Manual - Mini-Travellers

Indexing System

tem	Description	Part Number	Qty
1	IDLER WHEEL - RUB BLOCK	08-653	1
2	ROLLER CHAIN - #40 RIVETED 19.25ft	10-CHN-40-1RIV/FT	19.2
╘	ROLLER CHAIN - #40 RIVETED 21.3ft - 1800/2000S	10-CHN-40-1RIV/FT	21.3
3	CONNECTING LINK - #40-2	10-LNK-40-2CONN	1
4	CONNECTING LINK - #40	10-LNK-40CONN	2
5	SPROCKET - 40 B 12 w/5/8" BORE	10-SPT-40B12X063	1
6	SPROCKET - 40 B 12 w/14mm BORE	10-SPT-40B12XM14-A	1
7	SPROCKET - 40 B 32 w/14mm BORE	10-SPT-40B32XM14-B	1
	SPROCKET - 40 B 27 w/14mm BORE - 1800	10-SPT-40B27XM14-A	1
4	SPROCKET - 40 B 24 w/14mm BORE - 2000S	10-SPT-40B24XM14-A	1
8	INDEXER DRIVE BUTTON	33-301	1
9	SPACER - IDLER SPROCKET	37-304	1
9 10	IDLER SUPPORT MACHINE	37-306	1
-			
11	SHAFT-INDEX IDLER WELD	37-613	1
12	GREASE FITTING - 1/8 NPT	40-001	1
13	GREASE FITTING - 1/8 NPT 90°	40-001-90	1
14	GEARBOX - RIGHT ANGLE	42-588	1
15	IDLER WHEEL - RUB BLOCK	61-301	1
16	GUIDE - INDEXER	61-607-000	1
Ļ	GUIDE - INDEXER - 1800/2000S	67-607-000	1
17	BAR - INDEXER	61-608-000	1
L,	BAR - INDEXER - 1800/2000S	67-608-000	1
18	BOLT - 1/2-13 X 2.00	90-BLT-05013X200	1
19	BOLT FLANGE HEAD - 1/4-20 X 1.00	90-BLT-F02520X100	4
20	BOLT FLANGE HEAD - 1/4-20 X 3 1/2	90-BLT-F02520X350	4
21	BOLT FLANGE HEAD - 5/16-18UNC X 3/4	90-BLT-F03118X075	2
22	KEY - 3/16" SQUARE X 0.875	90-KEY-SQ019X088	2
23	NUT FLANGE - 1/4-20 SERRATED	90-NUT-F025-20	8
24	NUT LOCK - 1/2-13	90-NUT-LOC050-13	1
25	WASHER FENDER - 3/8" X 1 1/2"	90-WSR-FEN038	1
26	WASHER FLAT - 1/2	90-WSR-FLT050	2
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Operator's Manual - Mini-Travellers

Drive System

em	Description	Part Number	Qt
1	ROLLER CHAIN - # 40 RIVETED – 14.38 ft	10-CHN-40-1RIV/FT	1
2	IDLER SPROCKET - 40-18 X 5/8	10-SPT-40-18X063IDLER	3
3	40B15 X 3/4 SPROCKET	10-SPT-40B15X075	1
4	RUBBER BUMPER	42-063	1
5	TOGGLE CLAMP - PUSH/PULL 3/4"	42-587	1
6	FLANGE BEARING - 3/4"	42-BRG-5913K73	2
7	CONTROLLER - iWATER™ MINI	42-ELC-033-A	1
8	MOTOR - MINI-TRAVELLER	42-ELC-034	1
9	1500 DRIVE SHAFT	61-300-000-A	1
10	DRIVE CLUTCH	61-305	1
11	CLUTCH- DRIVEN	61-306	1
12	MOUNT - CONTROLLER	61-616-000	1
13	BRACKET - DOUBLE IDLER	61-631-000	1
4	BRACKET - DOUBLE IDLER - 1800/2000S	67-631-000-A	1
14	YOKE - DOUBLE IDLER SPROCKET	61-632-000	2
15	PIN - DOUBLE IDLER SPROCKET	61-633-000	2
16	DRIVE SYSTEM MOUNT WELDMENT	61-651-000-C	1
17	YOKE - DRIVE DISENGAGE	61-652-000-A	1
18	BOLT - 1/4-20 X 1.00	90-BLT-02520X100	1
19	BOLT - 1/2-13 X 2 1/4	90-BLT-05013X225	1
20	BOLT - 1/2-13 X 2 3/4	90-BLT-05013X275	2
21	1/4-20 X 1.00 LG FLANGE HEAD BLT	90-BLT-F02520X075	4
22	5/16-18x3/4 LG FLANGE HEAD BLT P	90-BLT-F03118X075	3
23	KEY - 3/16 X 3/8 X 1 7/8	90-KEY-SQ019X038X163	1
24	3/16 SQ. x 1 1/8 LG. KEY	90-KEY-SQ019X113	1
25	5/16-18 HEX NUT	90-NUT-HEX031-18	2
26	THREADED INSERT - 5/16-18 LONG	90-NUT-HTR03118L	3
27	1/4-20 JAM NUT	90-NUT-JAM025-20	2
28	5/16-18 JAM NUT	90-NUT-JAM031-18	1
29	NUT JAM - 1/2-13	90-NUT-JAM050-13	2
30	1/4-20 HEX LOCK NUT NYLON	90-NUT-F025-20	4
31	NUT R COUPLER - 1/4-20 X 5/16-18	90-NUT-RCPL02520X03118	1
32	COTTER PIN, 3/32 X 3/4 LG	90-PIN-CT009X075	4
33	THREADED ROD - 1/4-20 X 3.00"	90-ROD-02520X0300	1
34	THREADED ROD - 5/16-18 X 7.00"	90-ROD-03118X0700	1
35	SHCS 10-24 X 1/2 ZP	90-SCR-SH01024X050	4
36	SCREW SOCKET CAP - 5/16-18 X 075	90-SCR-SH03118X075	4
37	SCREW SOCKET CAP - M06-100X20MM	90-SCR-SHM06100X20	4
38	SET SCREW - 10-32 X 5/16 LG	90-SCR-ST01032X031	2
39	EXTENSION SPRING - 11/16 X .105 X 4 1/16	90-SPR068X105X406	1
10	1/4 FLATWASHER	90-WSR-FLT025	4
+0 +1	WASHER FLAT - 1/2	90-WSR-FLT025 90-WSR-FLT050	3
+1 12	MASHER FLAT - 1/2 M6 SPLIT COLLAR LOCK WASHER	90-WSR-LOCM06HC	4
+2 13	WASHER SAE - 1/4	90-WSR-LOCM06HC 90-WSR-SAE025	4
-			
44	WASHER SAE - 5/16 WASHER SAE - 1/2	90-WSR-SAE031 90-WSR-SAE050	6
15			r

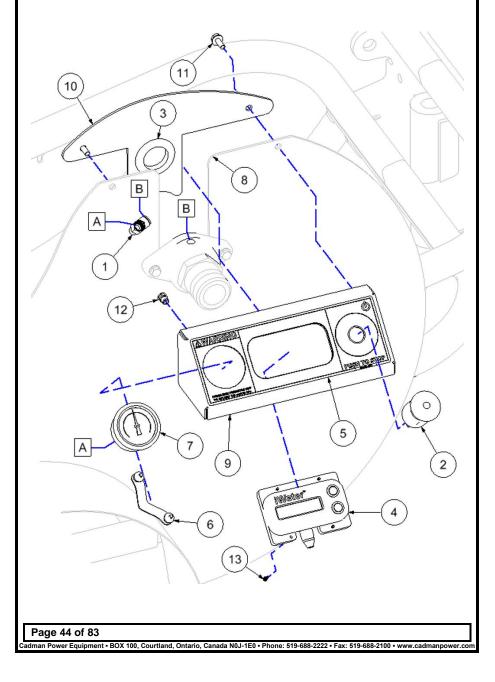
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Operator's Manual - Mini-Travellers



Control Panel





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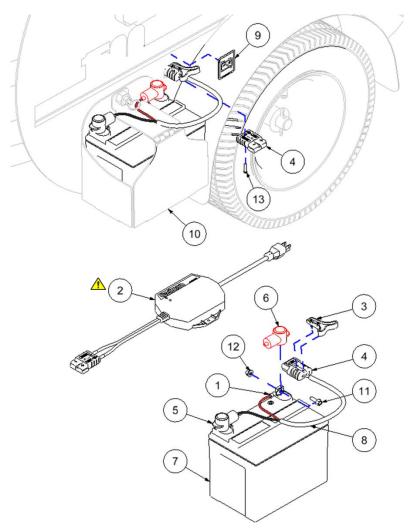
Control Panel

ltem_	Description	Part Number	Qty
	ADAPTER - 1/4-NPT-M X 3/8 TUBE X 90°	40-NPT-PLO25X038X90	1
2 3	SWITCH - EMERGENCY STOP	42-268	1
	GROMMET - 1 1/2"ID X 2 3/8"OD X 3/8"	42-589	1
	PANEL - iWATER™ MINI	42-ELC-035-A	1
	_ABEL - CONTROL	42-LBL-051	1
	GAUGE - 0-160 PSI WET	45-059	1
	GAUGE CLAMP ASSEMBLY	45-060	1
	FRAME WELDMENT - 1500	61-400	1
	GAUGE/CONTROL PANEL WELDMENT	61-601-000	1
	SKIN CAP - 1500 R.H.	61-620	1
	SKIN CAP - 1800/2000S R.H.	67-620-000	1
	BOLT FLANGE HEAD - 5/16-18UNC X 3/4	90-BLT-F03118X075	2
	THREADED INSERT - 1/4-20 SHORT	90-NUT-HTR02520S O	2
	SCREW SOCKET CAP - #06-32 X 7/16	90-SCR-SH00632X043	4
14	WIRING HARNESS (NOT SHOWN) SEE PAGE 48		
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			_
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Operator's Manual - Mini-Travellers



Power Supply System





WARNING:

Never Connect Battery Charger directly to machine. Connecting the charger to the machine **WILL** result in equipment damage and potential for personal injury. Fire may also occur resulting in equipment/property damage.

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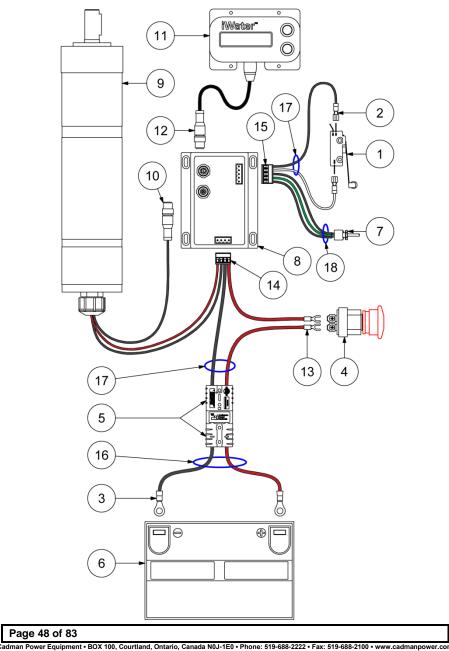
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Power Supply System

Description	Part Number	G
5/16 IN. TERMINAL EYE, YELLOW	40-322	
CHARGING KIT	42-302-KIT	
CONNECTOR HANDLE - RED	42-310	
CONNECTOR - BATTERY	42-311	
BATTERY BOOT - BLACK 18-10G	42-315	
BATTERY BOOT - RED 18-10G	42-316	
BATTERY - 12 VOLT 33AH	42-325	
8 GAUGE TWIN BATTERY CABLE - 18" LENGTH	42-ELC-040	
LABEL - DISCONNECT	42-LBL-007	
KIT - BATTERY BOX	61-625-000	
1/4-20 X 3/4 LG FLANGE HEAD BLT	90-BLT-F02520X075	
1/4-20 FLANGE TOP NUT	90-NUT-F025-20	
MACHINE SCREW PAN - #6-32 X 3/4 PHILLIPS	90-SCR-PH00632X075	
WIRING HARNESS (NOT SHOWN) SEE PAGE 48		
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Wiring Assembly



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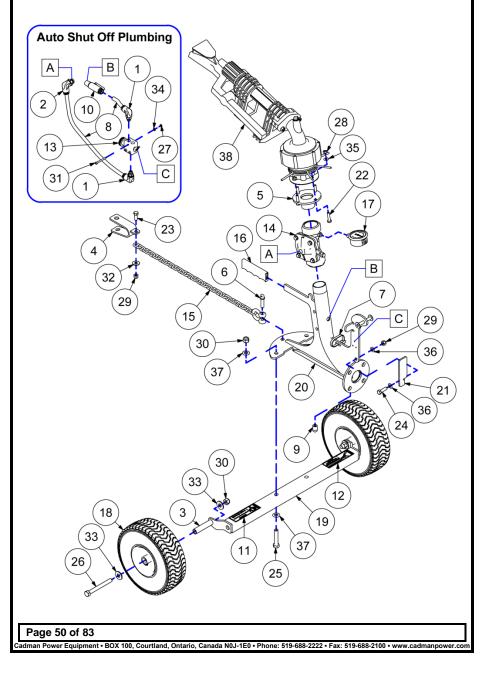
Wiring Assembly

tem Description	Part Number	Qty
1 SHUT OFF SWITCH	40-ELC-043	1
2 FEMALE SPADE - 1/4" BLUE - 16-14 GAUGE	40-068	2
3 5/16 IN. EYE TERM. YELLOW - 12-10 GAUGE	40-322	2
4 SWITCH - EMERGENCY STOP	42-268	1
5 CONNECTOR - BATTERY	42-311	2
6 BATTERY - 12V 33AH	42-325	1
7 ROTARY POTENTIOMETER 10K OHM	42-ELC-032	1
8 CONTROLLER - iWATER™ MINI	42-ELC-033-A	1
9 MOTOR - MINI-TRAVELLER	42-ELC-034	1
10 HARNESS - MOTOR PLUG & WIRING	42-ELC-034_PLUG	1
11 PANEL - iWATER™ MINI	42-ELC-035-A	1
12 HARNESS - iWATER™ MINI PLUG & WIRING	42-ELC-035-A_PLUG	1
13 TERMINAL - BLUE SPADE 16-14 GA.	42-ELC-036	2
14 Terminal Blocks Pluggable plug, 4 position	42-ELC-046	1
15 Terminal Blocks Pluggable plug, 5 position	42-ELC-047	1
16 HARNESS - BATTERY PLUG	61-310	1
17 HARNESS - MAIN	61-311-A	1
18 HARNESS - POTENTIOMETER	61-313-A	1
AR CABLE TIE - ANCHOR MOUNT BLACK (NOT SHOWN		11
AR CABLE TIE – 4 IN. BLACK (NOT SHOWN)	40-391	11
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Low Sprinkler Cart Assembly \circ





Operator's Manual - Mini-Travellers

Low Sprinkler Cart Assembly \circ

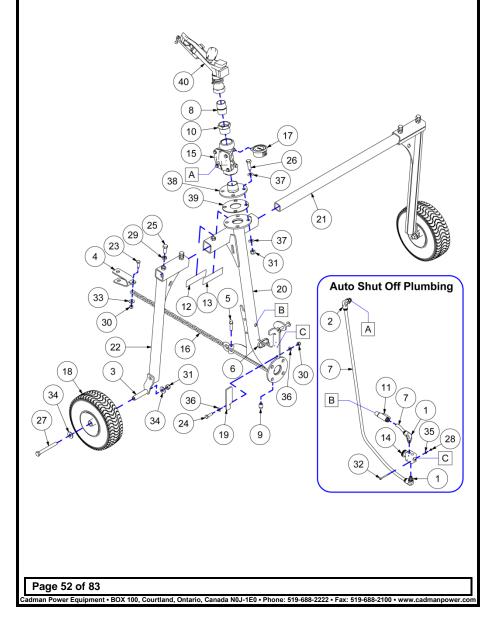
Item Description	Part Number	Qt
1 ELBOW - #06 TUBE X #02 M-NPT X 90°	25-HYD-87110-06-02	2
2 ELBOW - #06 TUBE X #04 M-NPT X 90°	25-HYD-87110-06-04	1
3 AXLE SLEEVE - GUN CART	27-646-A	2
4 CLEVIS - PULL CHAIN	27-658	1
5 FLANGE WELDMENT	27-659	1
6 SHACKLE - 3/8 IN. GALVANIZED	40-064	1
7 CABLE TIE - 8 1/2" BLACK	40-004	2
8 HOSE - 3/8 BLACK POLYETHYLENE	40-HHZ-0167	2
9 PLUG - 3/8" NPT GALVANIZED	40-NPT-PLG038G	1
10 VALVE - 3/8 NPT-M X 3/8 TUBE	40-NPT-VLV038BLLMFTUBE	1
11 LABEL - MAX HOSE PULL		1
	42-032	
12 LABEL - HIGH PRESS. WATER	42-046-A	1
13 VALVE - 3 WAY	42-048	1
14 VALVE - 1 1/2 IN. CONTROL	42-049	1
15 CHAIN - 3/16 GALVANIZED, 25 LINKS	42-055-25	1
16 GRIP - HANDLE	42-304	1
17 GAUGE - 0-100 PSI WET	45-022	1
18 WHEEL ASSEMBLY - 4.10-4 2PR SAWTOOTH	55-152	2
19 AXLE WELDMENT - L1500 CART	61-911-000	1
20 SPRINKLER CART BODY - L1500	61-912-000	1
21 BUMPER - SPRINKLER SHUT OFF	61-913-000	1
22 BOLT - 5/16-18 X 1 1/4	90-BLT-03118X125	4
23 BOLT - 3/8-16 X 1.00	90-BLT-03816X100	1
24 BOLT - 3/8-16 X 1 1/4	90-BLT-03816X125	1
25 BOLT - 1/2-13 X 2 1/2	90-BLT-05013X250	2
26 BOLT - 1/2-13 X 4 1/2	90-BLT-05013X450	2
27 NUT HEX - #06-32	90-NUT-HEX006-32	3
28 NUT HEX - 5/16-18	90-NUT-HEX031-18	4
29 NUT LOCK - 3/8-16	90-NUT-LOC038-16	2
30 NUT LOCK - 1/2-13	90-NUT-LOC050-13	4
31 SCREW MACH #06-32 X 1 1/2	90-SCR-PHP06-32X150	3
32 WASHER FLAT - 3/8	90-WSR-FLT038	1
33 WASHER FLAT - 1/2	90-WSR-FLT050	4
34 WASHER LOCK - #06	90-WSR-LOC006	3
35 WASHER SAE - 5/16	90-WSR-SAE031	4
36 WASHER SAE - 3/8	90-WSR-SAE038	3
30 WASHER SAE - 3/8 37 WASHER SAE - 1/2	90-WSR-SAE038	3
37 WASHER SAE - 1/2 38 KOMET TWIN MAX 24° GUN ○ - 1500/1800/2000S	SP-KOM-TM	4
SIME K1 ○ - 1500/1800/2000S	SP-SIM-K1	
UNITE ICI © 1000		1
	SP-SIM-DUPLEX	
	SP-SIM-HIDRA	1
	SP-KOM-R20	1
1000/1000/20000	SP-KOM-163	1
→ NELSON SR75 ○ - 1500/1800/2000S	SP-NEL-SR75	1
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High Sprinkler Cart Assembly \circ





Operator's Manual - Mini-Travellers

High Sprinkler Cart Assembly \circ

	Description	Part Number	Qt
1	ELBOW - #06 TUBE X #02 M-NPT X 90°	25-HYD-87110-06-02	2
2	ELBOW - #06 TUBE X #04 M-NPT X 90°	25-HYD-87110-06-04	1
3	AXLE SLEEVE - GUN CART	27-646-A	2
4	CLEVIS - PULL CHAIN	27-658	1
5	SHACKLE - 3/8 IN. GALVANIZED	40-064	1
6	CABLE TIE - 8 1/2" BLACK	40-470	2
7	HOSE - 3/8 BLACK POLYETHYLENE	40-HHZ-0167	3
8	NIPPLE CLOSE - 1.25" GALV.	40-NPT-NPLC125G	1
9	PLUG - 3/8" NPT GALVANIZED	40-NPT-PLG038G	1
10	REDUCER - #24 M-NPT X #20 F-NPT GALV.	40-NPT-RB150X125G	1
11	VALVE - 3/8 NPT-M X 3/8 TUBE	40-NPT-VLV038BLLMFTUBE	1
12	LABEL - MAX HOSE PULL	42-032	1
13	LABEL - HIGH PRESS. WATER	42-046-A	1
14	VALVE - 3 WAY	42-048	1
15	VALVE - 1 1/2 IN. CONTROL	42-049	1
16	CHAIN - 3/16 GALVANIZED, 25 LINKS	42-055-25	1
17	GAUGE - 0-100 PSI WET	45-022	1
18	WHEEL ASSEMBLY - 4.10-4 2PR SAWTOOTH	55-152	2
19	BUMPER - SPRINKLER SHUT OFF	61-913-000	1
20	SPRINKLER CART BODY - H1500	61-914-000	1
21	CROSS TUBE - CART	61-915-000	1
22	LEG WELDMENT - H1500	61-916-000	2
23	BOLT - 3/8-16 X 1.00	90-BLT-03816X100	1
24	BOLT - 3/8-16 X 1 1/4	90-BLT-03816X125	1
25	BOLT - 1/2-13 X 1 1/4	90-BLT-05013X125	6
26	BOLT - 1/2-13 X 1 1/2	90-BLT-05013X150	4
27	BOLT - 1/2-13 X 4 1/2	90-BLT-05013X450	2
28	NUT HEX - #06-32	90-NUT-HEX006-32	3
29	NUT JAM - 1/2-13	90-NUT-JAM050-13	6
30	NUT LOCK - 3/8-16	90-NUT-LOC038-16	2
31	NUT LOCK - 1/2-13	90-NUT-LOC050-13	6
32	SCREW MACH #06-32 X 1 1/2	90-SCR-PHP06-32X150	3
33	WASHER FLAT - 3/8	90-WSR-FLT038	1
34	WASHER FLAT - 1/2	90-WSR-FLT050	2
35	WASHER LOCK - #06	90-WSR-LOC006	3
36	WASHER SAE - 3/8	90-WSR-SAE038	2
37	WASHER SAE - 1/2	90-WSR-SAE050	8
38	ADAPTER - 1 1/2" FLANGE X 1 1/2" NPT-M	IR-F15X150NPL	1
39	FLANGE GASKET - 1 1/2, 4 BOLT	IR-GKT-FL150-A	1
40	SPRINKLER - SIME K1 o - 1500	SP-SIM-K1	1
4	KOMET TWIN MAX 24° GUN o - 1500/1800/2000S	SP-KOM-TM	1
L,	SIME DUPLEX 0 - 1500/1800/2000S	SP-SIM-DUPLEX	1
L,	SIME HIDRA 1800/2000S	SP-SIM-HIDRA	1
L,	KOMET R20 0 - 1500	SP-KOM-R20	1
	KOMET 163 ° - 1500/1800/2000S	SP-KOM-163	1
L,			

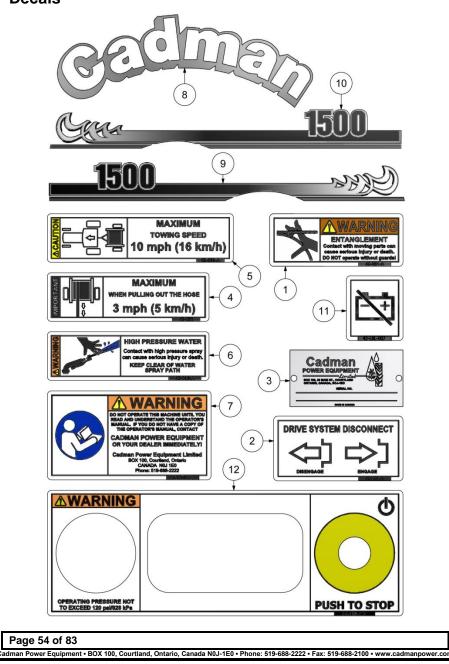
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Decals





Operator's Manual - Mini-Travellers

Decals

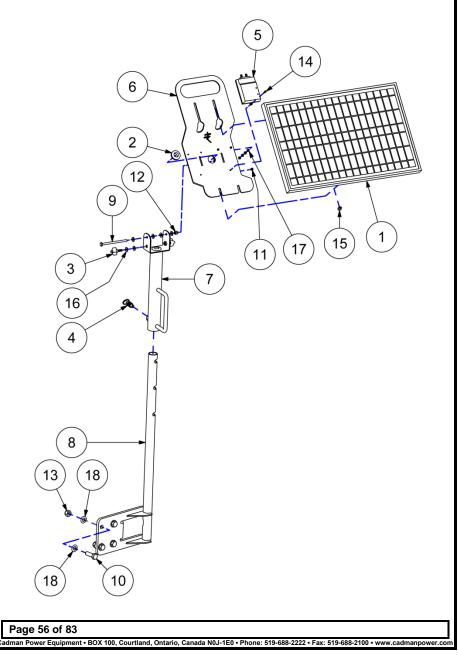
tem		Part Number	Qty
1	LABEL - ENTANGLEMENT	40-051-A	1
	LABEL - DRIVE DISCONNECT	40-151-A	1
3	CADMAN SERIAL NUMBER TAG	40-238	1
4	LABEL - MAX HOSE PULL	42-032	1
	LABEL - MAX TOW SPEED	42-033-A	1
6	LABEL - HIGH PRESS. WATER	42-046-A	1
7	LABEL - OPERATOR MANUAL	42-050-A	1
8	DECAL - DRUM R14"	42-DCL-010	4
9	DECAL - 1500 SIDE FRAME L.H.	42-DCL-1500L	1
╘	DECAL - 1800 SIDE FRAME L.H.	42-DCL-1800L	1
	DECAL - 2000S SIDE FRAME L.H.	42-DCL-2000SL	1
	DECAL - 1500 SIDE FRAME R.H.	42-DCL-1500R	1
	DECAL - 1800 SIDE FRAME R.H.	42-DCL-1800R	1
	DECAL - 2000S SIDE FRAME R.H.	42-DCL-2000SR	1
	LABEL - DISCONNECT	42-LBL-007	1
12	LABEL - CONTROL	42-LBL-051	1
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Solar Panel Kit \circ

TR-KIT-SOL2





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Solar Panel Kit \circ

TR-KIT-SOL2

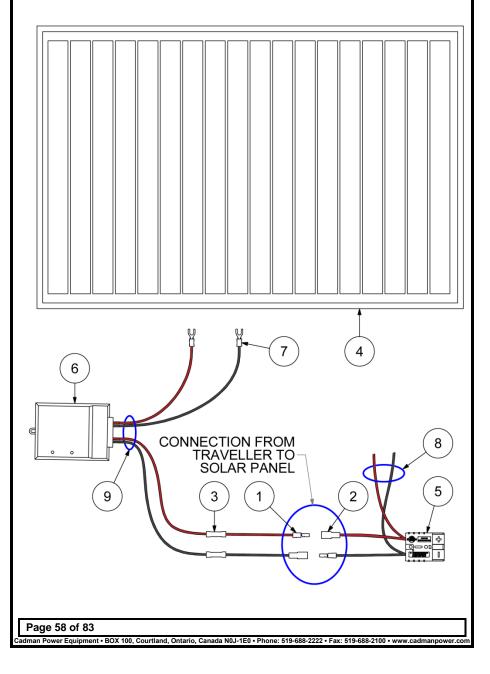
		_
Description	Part Number	G
SOLAR PANEL - 20 WATT	42-261	
GROMMET - 1" X 1 5/16" X 7/16"	42-406	
CONTROL KNOB - 1/4-20 THREE ARM	42-471	
SPRING PLUNGER - HAND RETRACTABLE	42-547	
SOLAR CHARGER ASSEMBLY	61-627-000	
SOLAR PANEL PIVOT MOUNT	61-810-000	
TUBE WELDMENT - SOLAR PIVOT	61-811-000	
SOLAR PANEL MOUNT BASE WELD	61-812-000	
BOLT - 1/4-20 X 3.00	90-BLT-02520X400	
BOLT - 1/2-13 X 1 1/2	90-BLT-05013X150	
NUT ACORN - #06-32	90-NUT-ACL006-32	
NUT ACORN - 1/4-20UNC LOW	90-NUT-ACL025-20	
NUT LOCK - 1/2-13	90-NUT-LOC050-13	
SCREW SOCKET CAP - #06-32 X 7/16	90-SCR-SH00632X043	
TEK SCREW - 1/4 X 1/2	90-SCR-TEK025X050	
WASHER FLAT - 1/4 NYLON	90-WSR-FLT025NYLON	
WASHER SAE - #06	90-WSR-SAE006	
WASHER SAE - 1/2	90-WSR-SAE050	
HARNESS - SOLAR PANEL(NOT SHOWN) SEE PAGE 58	61-315	
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Solar Panel Harness

61-315





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Solar Panel Harness

61-315

al Pallel Halliess		07-3
Description	Part Number	C
TERMINAL BULLET - BLUE MALE	40-070	
TERMINAL BULLET - BLUE FEMALE	40-247	
BUTT CONNECTOR - BLUE	40-258	
SOLAR PANEL - 20 WATT	42-261	
CONNECTOR - BATTERY	42-311	
SOLAR CHARGER - SUNFORCE	42-399	
TERMINAL - BLUE SPADE 16-14 GA.	42-ELC-036	
HARNESS - MAIN MINI TRAVELLER	61-311-A	
HARNESS - SOLAR PANEL	61-315	
CABLE TIE - ANCHOR MOUNT BLACK (NOT SHOWN)	42-647	
CABLE TIE – 4 IN. BLACK (NOT SHOWN)	40-391	
	Do	ige 59 c

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Cornell 1.5 Booster Pump o **TR-OPT-BPC55** K. A De P

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Cornell 1.5 Booster Pump o

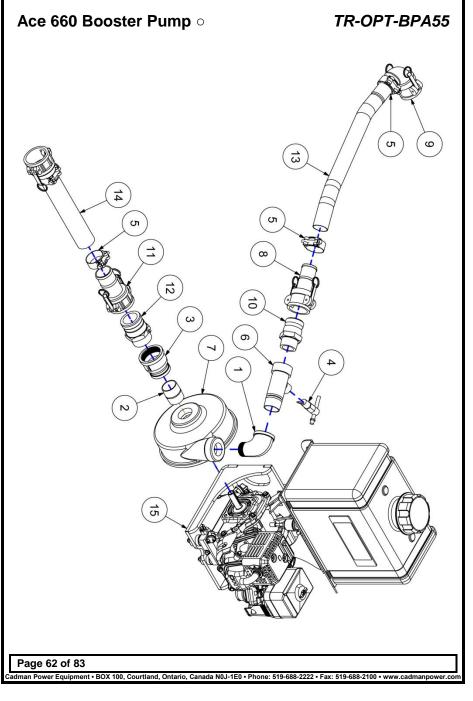
TR-OPT-BPC55

em Description	Part Number	G
BOOSTER PUMP OPTION	TR-OPT-BPC55	
1 FUEL LINE - 3/16" 18" LENGTH (NOT SHOWN)	40-066	
2 HONDA ENGINE - GX-160	40-078-A	
3 FUEL FILTER - 1/4"	40-326	
4 TANK - 5 GAL. PLASTIC GASOLINE	42-096	
5 FUEL CAP - 3.50" VENTED	42-097	
6 BUSHING - FUEL TANK	42-100	
7 FUEL TANK FITTING - 90°	42-101	
B RUBBER ISOLATOR	42-269	
9 SWITCH-FLOW	42-362	
0 MOUNT - 1/4" ZIP TIE BLACK (NOT SHOWN)	42-595	A
1 LABEL - NO REFUEL HOT ENGINE	42-LBL-049	,
2 CLAMP MAG - M8-52-55	50-073	
3 MOUNT - BOOSTER PUMP	61-800-000	
4 MOUNT - FUEL TANK GX160	61-801-000	
5 FLOW SWITCH MOUNT	61-850-000	
6 BOLT - 1/4-20 X 1 1/2	90-BLT-02520X150	
7 BOLT - 5/16-24 X 1/2	90-BLT-03124X050	
8 BOLT - 3/8-16 X 2 3/4	90-BLT-03816X275	
9 BOLT - 1/2-13 X 1 1/2	90-BLT-05013X150	
0 NUT LOCK - 1/4-20	90-NUT-LOC025-20	
1 NUT LOCK - 3/8-16	90-NUT-LOC038-16	
2 NUT LOCK - 1/2-13	90-NUT-LOC050-13	
3 WASHER FLAT - 1/4	90-WSR-FLT025	
4 WASHER FLAT - 3/8	90-WSR-FLT025	
5 WASHER LOCK - 5/16	90-WSR-LOC031	
6 WASHER SAE - 1/4	90-WSR-SAE025	
7 WASHER SAE - 1/2	90-WSR-SAE025	
8 CORNELL PUMP - 1.5 WH	CO-PMP-15WH	
9 CAM LOCK - C150	IR-CAM-150/C	
0 CAM LOCK - CL150	IR-CAM-150/CL	
1 CAM LOCK - 61 130	IR-CAM-150/CL	
2 CAM LOCK - C200	IR-CAM-150/F	
3 CAM LOCK - F200		
4 HOSE - 1 1/2" MERTEX 24" LENGTH	IR-CAM-200/F IR-HOZ-150MERTEX	
5 HOSE - 2" HIGH PRESSURE 20FT LENGTH	IR-HOZ-2X20	
6 BOOSTER PUMP HARNESS (NOT SHOWN) (SEE PG.67)	61-312	
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Operator's Manual - Mini-Travellers

Ace 660 Booster Pump \circ

TR-OPT-BPA55

Description BOOSTER PUMP OPTION ELBOW RED – 1.5NPTX1.25NPTX90 NIPPLE CLOSE 1 ½" NPT GALV. RED COUPLING – 1.5NPTFX1.25NPTF SWITCH-FLOW CLAMP MAG - M8-52-55 FLOW SWITCH MOUNT PUMP – ACE GE-660-HONDA CAM LOCK - C150 CAM LOCK - C150 CAM LOCK - C150 CAM LOCK - C150 CAM LOCK - C200 CAM LOCK - F200 HOSE - 1 1/2" MERTEX 24" LENGTH	Part Number TR-OPT-BPA55 40-NPT-ELR150X125X90 40-NPT-NPLC150G 40-NPT-RC200X150G 42-362 50-073 61-850-000 AP-PMP-660 IR-CAM-150/C IR-CAM-150/C IR-CAM-150/F IR-CAM-200/F IR-CAM-200/F IR-CAM-200/F IR-HOZ-150MERTEX
BOOSTER PUMP OPTION ELBOW RED – 1.5NPTX1.25NPTX90 NIPPLE CLOSE 1 ½" NPT GALV. RED COUPLING – 1.5NPTFX1.25NPTF SWITCH-FLOW CLAMP MAG - M8-52-55 FLOW SWITCH MOUNT PUMP – ACE GE-660-HONDA CAM LOCK - C150 CAM LOCK - C150 CAM LOCK - F150 CAM LOCK - F200	40-NPT-ELR150X125X90 40-NPT-NPLC150G 40-NPT-RC200X150G 42-362 50-073 61-850-000 AP-PMP-660 IR-CAM-150/C IR-CAM-150/CL IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
ELBOW RED – 1.5NPTX1.25NPTX90 NIPPLE CLOSE 1 ½" NPT GALV. RED COUPLING – 1.5NPTFX1.25NPTF SWITCH-FLOW CLAMP MAG - M8-52-55 FLOW SWITCH MOUNT PUMP – ACE GE-660-HONDA CAM LOCK - C150 CAM LOCK - C150 CAM LOCK - F150 CAM LOCK - F200	40-NPT-ELR150X125X90 40-NPT-NPLC150G 40-NPT-RC200X150G 42-362 50-073 61-850-000 AP-PMP-660 IR-CAM-150/C IR-CAM-150/CL IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
NIPPLE CLOSE 1 ½" NPT GALV. RED COUPLING – 1.5NPTFX1.25NPTF SWITCH-FLOW CLAMP MAG - M8-52-55 FLOW SWITCH MOUNT PUMP – ACE GE-660-HONDA CAM LOCK - C150 CAM LOCK - C150 CAM LOCK - F150 CAM LOCK - F200	40-NPT-NPLC150G 40-NPT-RC200X150G 42-362 50-073 61-850-000 AP-PMP-660 IR-CAM-150/C IR-CAM-150/CL IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
RED COUPLING – 1.5NPTFX1.25NPTF SWITCH-FLOW CLAMP MAG - M8-52-55 FLOW SWITCH MOUNT PUMP – ACE GE-660-HONDA CAM LOCK - C150 CAM LOCK - F150 CAM LOCK - C200 CAM LOCK - F200	40-NPT-RC200X150G 42-362 50-073 61-850-000 AP-PMP-660 IR-CAM-150/C IR-CAM-150/C IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
RED COUPLING – 1.5NPTFX1.25NPTF SWITCH-FLOW CLAMP MAG - M8-52-55 FLOW SWITCH MOUNT PUMP – ACE GE-660-HONDA CAM LOCK - C150 CAM LOCK - C150 CAM LOCK - F150 CAM LOCK - C200 CAM LOCK - F200	42-362 50-073 61-850-000 AP-PMP-660 IR-CAM-150/C IR-CAM-150/F IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
CLAMP MAG - M8-52-55 FLOW SWITCH MOUNT PUMP – ACE GE-660-HONDA CAM LOCK - C150 CAM LOCK - CL150 CAM LOCK - F150 CAM LOCK - C200 CAM LOCK - F200	50-073 61-850-000 AP-PMP-660 IR-CAM-150/C IR-CAM-150/F IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
FLOW SWITCH MOUNT PUMP – ACE GE-660-HONDA CAM LOCK - C150 CAM LOCK - CL150 CAM LOCK - F150 CAM LOCK - C200 CAM LOCK - F200	61-850-000 AP-PMP-660 IR-CAM-150/C IR-CAM-150/CL IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
FLOW SWITCH MOUNT PUMP – ACE GE-660-HONDA CAM LOCK - C150 CAM LOCK - CL150 CAM LOCK - F150 CAM LOCK - C200 CAM LOCK - F200	61-850-000 AP-PMP-660 IR-CAM-150/C IR-CAM-150/CL IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
PUMP – ACE GE-660-HONDA CAM LOCK - C150 CAM LOCK - CL150 CAM LOCK - F150 CAM LOCK - C200 CAM LOCK - F200	AP-PMP-660 IR-CAM-150/C IR-CAM-150/CL IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
CAM LOCK - C150 CAM LOCK - CL150 CAM LOCK - F150 CAM LOCK - C200 CAM LOCK - F200	IR-CAM-150/C IR-CAM-150/CL IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
CAM LOCK - CL150 CAM LOCK - F150 CAM LOCK - C200 CAM LOCK - F200	IR-CAM-150/CL IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
CAM LOCK - F150 CAM LOCK - C200 CAM LOCK - F200	IR-CAM-150/F IR-CAM-200/C IR-CAM-200/F
CAM LOCK - C200 CAM LOCK - F200	IR-CAM-200/C IR-CAM-200/F
CAM LOCK - F200	IR-CAM-200/F
HOSE - 2" HIGH PRESSURE 20ft LENGTH	IR-HOZ-2X20
ENGINE AND OTHER COMPONENTS (SEE PG.60)	
BOOSTER PUMP HARNESS (NOT SHOWN) (SEE PG.68)	61-312

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Cornell 2.5 Booster Pump o **TR-OPT-BPC9** THE Page 64 of 83

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Cornell 2.5 Booster Pump o

TR-OPT-BPC9

B S S F F S F S	Description BOOSTER PUMP OPTION BUCTION FLANGE - CORNELL 2.5WH HONDA ENGINE - GX-270 QA TANK - 5 GAL. PLASTIC GASOLINE FUEL CAP - 3.50" VENTED	Part Number TR-OPT-BPC9 29-629 40-HDA-GX270QA 42-096	Q
S P B T F B B F R S S M D L 1 C	SUCTION FLANGE - CORNELL 2.5WH HONDA ENGINE - GX-270 QA FANK - 5 GAL. PLASTIC GASOLINE FUEL CAP - 3.50" VENTED	29-629 40-HDA-GX270QA	•
2 H 3 T 4 F 5 B 6 F 7 R 8 S 9 M 00 L 11 C	HONDA ENGINE - GX-270 QA FANK - 5 GAL. PLASTIC GASOLINE FUEL CAP - 3.50" VENTED	40-HDA-GX270QA	
2 H 3 T 4 F 5 B 6 F 7 R 8 S 9 M 00 L 11 C	HONDA ENGINE - GX-270 QA FANK - 5 GAL. PLASTIC GASOLINE FUEL CAP - 3.50" VENTED	40-HDA-GX270QA	
B T I F I B I B I R I R I N I D I C	ANK - 5 GAL. PLASTIC GASOLINE FUEL CAP - 3.50" VENTED		-
F 5 B 6 F 7 R 8 S 0 M 0 L 0 L 1 C	UEL CAP - 3.50" VENTED	42-096	
5 B 6 F 7 R 8 S 9 M 0 L 1 C			
5 F 7 R 8 S 9 N 0 L 1 C		42-097	
7 R 8 S 9 N 0 L 1 C	BUSHING - FUEL TANK	42-100	
8 S 9 N 0 L 1 C	FUEL TANK FITTING - 90°	42-101	
) N D L 1 C	RUBBER ISOLATOR	42-269	
0 L 1 C	SWITCH-FLOW	42-362	
1 C	NOUNT - 1/4" ZIP TIE BLACK (NOT SHOWN)	42-595	A
	ABEL - NO REFUEL HOT ENGINE	42-LBL-049	
	CLAMP MAG - M8-52-55	50-073	
2 E	ENGINE MOUNT - 13 HP.	67-800-000	
3 F	UEL TANK MOUNT - 13 HP.	67-801-000	
4 C	DISCHARGE FLANGE - CORNELL 2.5WH	67-850-000	
5 B	BOLT - 1/4-20 X 1 1/2	90-BLT-02520X150	
6 B	3OLT - 5/16-24 X 1.00	90-BLT-03124X100	
7 B	3OLT - 3/8-16 X 2 3/4	90-BLT-03816X275	
8 B	30LT - 1/2-13 X 1 1/2	90-BLT-05013X150	
	BOLT - 5/8-11 X 1 1/2	90-BLT-06311X150	
_	30LT - 5/8-11 X 2 1/2	90-BLT-06311X250	
	NUT LOCK - 1/4-20	90-NUT-LOC025-20	
	NUT LOCK - 3/8-16	90-NUT-LOC038-16	
	NUT LOCK - 1/2-13	90-NUT-LOC050-13	
-	NUT LOCK - 5/8-11	90-NUT-LOC063-11	
	VASHER FLAT - 1/4	90-WSR-FLT025	
	VASHER FLAT - 3/8	90-WSR-FLT038	
	VASHER LOCK - 5/16	90-WSR-LOC031	
	VASHER SAE - 1/2	90-WSR-SAE050	
	VASHER SAE - 5/8	90-WSR-SAE063	
	PUMP - CORNELL 2.5WH CC	CO-PMP-25WH	
	CAM LOCK - C150	IR-CAM-150/C	
	CAM LOCK - C200	IR-CAM-200/C	
_	CAM LOCK - CL200	IR-CAM-200/CL	
	CAM LOCK - F200	IR-CAM-200/F	
	GASKET - CORNELL 2.5WH	IR-GKT-BPC9	
	IOSE - Ø2" HIGH PRESSURE X 20.5in	IR-HOZ-HP2	
	IOSE - Ø2" HIGH PRESSURE X 20FT	IR-HOZ-2X20	
	BOOSTER PUMP HARNESS (NOT SHOWN) (SEE PG.68)	61-312	
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Ace 860 Booster Pump o **TR-OPT-BPA9** œ N = 10 ω N 9 б 6 ω 12 Ø

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Ace 860 Booster Pump \circ

TR-OPT-BPA9

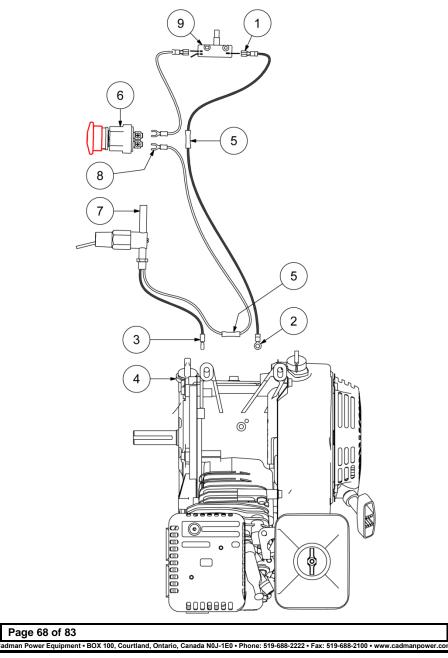
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n Description	Part Number	Q
BOOSTER PUMP OPTION	TR-OPT-BPA9	•
SWITCH-FLOW	42-362	1
CLAMP MAG - M8-52-55	50-073	4
FLOW SWITCH MOUNT	61-850-000	1
PUMP – ACE GE-860-HONDA	AP-PMP-860	1
CAM LOCK - C150	IR-CAM-150/C	1
CAM LOCK – F150	IR-CAM-150/F	1
CAM LOCK - C200	IR-CAM-200/C	2
CAM LOCK - CL200	IR-CAM-200/CL	1
CAM LOCK - F200	IR-CAM-200/F	1
HOSE - Ø2" HIGH PRESSURE X 20.5in	IR-HOZ-HP2	1
HOSE - Ø2" HIGH PRESSURE X 20FT	IR-HOZ-2X20	1
ENGINE AND OTHER COMPONENTS (SEE PG.65)		
BOOSTER PUMP HARNESS (NOT SHOWN) (SEE PG.68)	61-312	
MOUNT - 1/4" ZIP TIE BLACK (NOT SHOWN)	42-595	A
	12 000	
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Booster Pump Harness o

61-312





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Booster Pump Harness o

61-312

em I	Description	Part Number	Q
1 FE	EMALE SPADE - 1/4" BLUE - 16-14 GAUGE	40-068	2
2 TE	ERMINAL EYE - #10 BLUE	40-069	1
3 TE	ERMINAL BULLET - BLUE MALE	40-070	1
4 H	ONDA ENGINE - GX-160	40-078-A	1
	JTT CONNECTOR - BLUE	40-258	2
	WITCH - EMERGENCY STOP (ON TRAVELLER)	42-268	
	WITCH-FLOW	42-362	
	ERMINAL - BLUE SPADE 16-14 GA.	42-ELC-036	
	HUT OFF SWITCH - BUTTON STYLE (ON TRAVELLER)	42-ELC-043	
	ABLE TIE - ANCHOR MOUNT BLACK (NOT SHOWN)	42-298	ę
_			
		Pag	e 69 of
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Required Maintenance

Prevention of mechanical failure is the goal of any good maintenance schedule. The secret to preventing unwanted down time is to adhere to a maintenance schedule suited to the way you use the equipment. Your maintenance schedule should include the following minimum requirements:



ONLY perform maintenance when the machine is shut down with the battery removed and is in a non-loaded condition. This means that no water is being pumped through the reel, all water pressure has been appropriately bled, and all mechanical tension has been released from the hose rewind system.

Each Use

Maintenance Item	Figure	Procedure
Visually inspect equipment	Ø	Walk around the unit and inspect for loose, missing or damaged items. Replace missing or damaged items and tighten loosened items.
Lubricate the following	Figure 39	Indexer chain Gear box Wheel axles on main chassis All grease points
Maintain tire pressure	(->· <->	Using a tire pressure gauge, check the pressure of each tire and add or remove air to achieve the manufacturer's recommended pressure posted on the tire sidewall. DO NOT LOWER TIRE PRESSURE BELOW THE RECOMMENDED LEVEL. A lower pressure than the recommended pressure could result in the tire separating from the rim.
Check battery level	+	Check battery level to ensure there is enough charge to complete the required cycles.

Table 3 - Required Maintenance - Each Use

Every 100 Hours

Maintenance Item	Figure	Procedure
Adjust, if necessary, the tension of the drive and indexer chain	Figure 38 & Page 73	Remove protective shield. The indexer chain is properly tensioned when it has no visible slack. Adjustments are made by moving the idler wheel (rub block) towards the chain. Replace the shield before operating this machine.
Lubricate the following	Figure 39	 Indexer chain Gear box Wheel axles on main chassis All grease points

Table 4 - Every 100 Hours of Use

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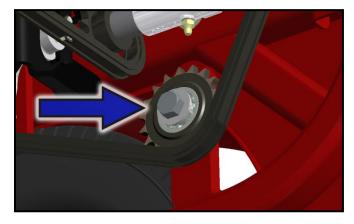


Figure 38 - Adjust Drive Chain

img-00722



img-00723

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Before Storing

You MUST properly empty your Cadman Mini-Traveller before storing the machine for long periods of time. Failure to properly clean out the hose could result in the hose being plugged with sediment.

Maintenance Item	Figure	Procedure
Drain the traveller	N/A	For cold climates you must winterize your equipment. All liquid must be drained from the machine. Open the sprinkler cart drain fully. Use compressed air to purge the machine. For further information contact Cadman Power Equipment Limited or your dealer.
Lubricate the following	Figure 39	 Indexer chain Gear box Wheel axles on main chassis All grease points
Remove battery	+	Remove battery from your equipment and store as per manufacturer's specifications.
Cap all openings	N/A	Once the machine is drained, cap all openings such as water inlet and sprinkler nozzle. This will prevent insects or rodents from blocking the system with debris.

Table 5 - Required Maintenance - Before Storing

Before Start Up (After long term storage)

Maintenance Item	Figure	Procedure
Review Operator's manual		Review this manual to refresh your memory regarding the proper operation of this machine. This will reduce the potential for equipment damage and user injury.
Charge battery	<u> </u>	Charge battery before putting your equipment into service. This will ensure desired operating results.
Maintain tire pressure		Using a tire pressure gauge, check the pressure of each tire and add or remove air to achieve the manufacturer's recommended pressure posted on the tire sidewall. DO NOT LOWER TIRE PRESSURE BELOW THE RECOMMENDED LEVEL. A lower pressure than the recommended pressure could result in the tire separating from the rim.

Table 6 - Required Maintenance - After Long Term Storage

Lubricants

Grease: Any good grade multi-purpose, waterproof grease is compatible with the greasing requirements of your Cadman Mini-Traveller.

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Indexer Adjustment Instructions

In some cases indexer adjustment may be required. If required simply complete the following instructions to achieve proper indexer adjustment.

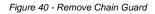


Only perform the indexer adjustment procedure when the hose is pulled out to the base layer. If there are spaces in the base layer you will be required to tighten the coils so that they form a neatly packed spool. Rotate the drum if necessary. In some cases the indexer may not be out of adjustment and will not require any adjustments. If the indexer is still out of alignment continue with the instructions below.

Step 1

Disconnect the battery and ensure all mechanical tension has been released from the hose rewind system. Then remove the indexer chain guard.





img-00724

Step 2

Remove the chain connector link, and then remove indexer chain.



Figure 41 - Remove Indexer Chain

img-00725

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Step 3

Rotate the indexer sprocket until the hose guide is lined up with the hose. Make sure that the hose is directly in the center of the hose guide.



Figure 42 - Align Hose Guide

img-00709

It is IMPORTANT that the hose guide is traveling in the same direction as the hose. When rotating the indexer sprocket note the direction of travel for the hose. If the hose guide travels opposite to the hose, equipment damage WILL occur.

Step 4

Re-install the chain and chain connector link.



Figure 43 - Re-install Chain and Chain Connector Link

img-00726

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Step 5

Re-install the indexer chain guard.

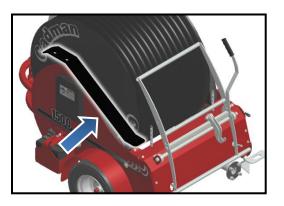


Figure 44 - Re-install Indexer Chain Guard

img-00727



DO NOT operate this machine without all guards properly installed. Failure to have guards properly installed may result in serious injury to you and/or spectators.

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Appendix A – Sprinkler Data



1500 Model



1500/1800/2000S Model



1800/2000S Model



1500 Model

SIME – K1											
PSI		zzle mm		zzle mm		zzle mm	Nozzle 12 mm				
	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.			
22	12.9	102'	16.4	108'	20.1	112'	29.1	112'			
29	15.1	112'	18.8	115'	23.3	118'	33.6	125'			
44	18.2	125'	23.0	128'	28.3	135'	41.0	138'			
59	21.1	135'	26.4	138'	32.8	144'	47.3	154'			

Table 7 - SIME - K1 (U.S. units) [†]

	SIME – DUPLEX												
PSI		zzle mm		zzle mm		zzle mm		zzle mm					
	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.					
22	42	130'	-	-	-	-	91	184'					
29	49	150'	61	164'	75	178'	-	-					
44	59	178'	74	190'	91	204'	115	216'					
58	68	196'	86	120'	105	224'	134	236'					

Table 8 - SIME - DUPLEX (U.S. units) Error! Bookmark not defined.

	SIME – HIDRA												
PSI	PSI 12 mm			zzle mm		zzle mm	Nozzle 18 mm						
	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.					
29	40	130'	52	138'	65	144'	-	-					
44	48	156'	63	164'	80	170'	100	184'					
58	56	176'	73	190'	93	196'	115	202'					
73	62	196'	81	202'	103	216'	128	224'					

Table 9 - SIME - HIDRA (U.S. units) Error! Bookmark not defined.

	KOMET – R20											
PSI	Nozz PSI 6 mn			zzle mm		zzle mm	Nozzle 12 mm					
	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.				
36	9	108'	-	-	-	-	37	144'				
44	-	-	18	138'	28	144'	-	-				
51	11	124'	-	-	-	-	44	157'				
58	•	-	21	148'	32	157'	•	-				
65	12	138'	•	•	•		50	170'				

Table 10 - KOMET - R20 (U.S. units) Error! Bookmark not defined.

[†] Table Data taken from manufacturer's literature and depict ideal testing conditions. Pressure (PSI) refers to pressure at nozzle. For every 3° drop of the trajectory angle the throw is reduced by approximately 3 to 4%. Data may change without notice.

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1500/1800/2000S Model

	KOMET – TWIN MAX												
PSI		zzle mm		zzle mm		zzle mm	Nozzle 13 mm						
	GPM DIA.		GPM DIA.		GPM	DIA.	GPM	DIA.					
25	-	-	-	-	32	148'	37	156'					
30	24	148'	29	156'	35	162'	41	171'					
50	31	177'	38	188'	45	197'	53	207'					
70	37	205'	45	138'	53	225'	63	235'					
100	44	235'	54	246'	64	257'	75	269'					

Table 11 - KOMET - TWIN MAX (U.S. units) [‡]

	KOMET – TWIN MAX CONT.															
PSI	Noz 14 n		Noz 15 r		Noz 16 n		Noz 17 i			zzle mm		zzle mm		zzle mm	Noz 24 r	
	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.
25	43	163'	50	170'	57	177'	64	185'	72	191'	89	202'	107	213'	128	223'
30	48	180'	55	187'	62	193'	70	201'	79	207'	97	221'	118	231'	140	243'
50	62	213'	71	225'	80	232'	91	242'	102	250'	126	266'	152	274'	181	290'
70	73	244'	84	254'	95	262'	107	271'	120	280	148	297'	180	307'	214	323'
100	87	280'	100	289'	114	300'	128	309'	144	320'	178	330'	215	341'	256	371'

Table 12 - KOMET - TWIN MAX CONT. (U.S. units) [‡]



1500/1800/2000S Model



1500/1800/2000S Model

	KOMET – 163												
PSI	Nozzle PSI 8 mm			zzle mm		zzle mm		zzle mm	Nozzle 16 mm				
	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.			
29	22	128'	30	141'	40	151'	52	157'	63	160'			
43	26	144' 37 157'		157'	49	171'	64	180'	80	182'			
58	31	157'	42	174'	57	187'	73	197'	93	207'			
72	34	167'	47	187'	63	200'	82	210'	104	220'			

Table 13 - KOMET - 163 (U.S. units) [‡]

	NELSON – SR75												
PSI		zzle mm		zzle mm		zzle mm		zzle 5 mm	Nozzle 19 mm				
	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.	GPM	DIA.			
40	27	149'	43	171	52	180'	74	198'	98	213'			
50	30	161'	48	186'	59	195'	83	212'	109	230'			
60	33	169'	53	198'	64	208'	91	228'	120	245'			
70	36	175'	57	210'	69	221'	98	243'	129	260'			
80	39	182'	61	222'	74	234'	105	256'	138	274'			

Table 14 - NELSON - SR75 (U.S. units) [‡]

[‡] Table Data taken from manufacturer's literature and depict ideal testing conditions. Pressure (PSI) refers to pressure at nozzle. For every 3° drop of the trajectory angle the throw is reduced by approximately 3 to 4%. Data may change without notice.

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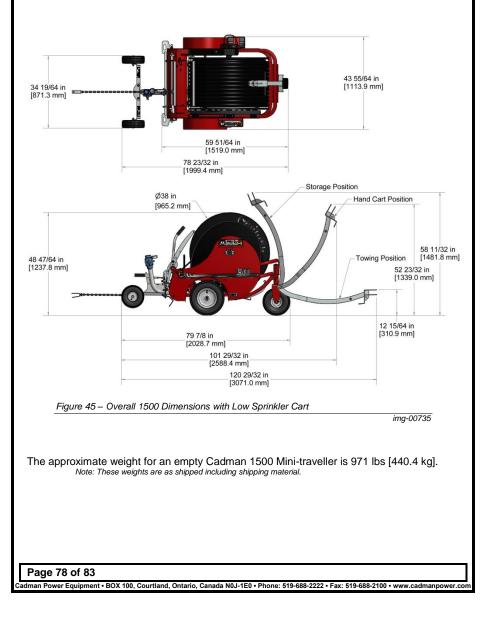
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Technical Specifications

Approximate 1500 Mini-Traveller Dimensions

IMPORTANT: The dimensions shown on the following pages are only approximate. Many varying factors affect these dimensions, for example tire option, hose type, tire inflation etc.

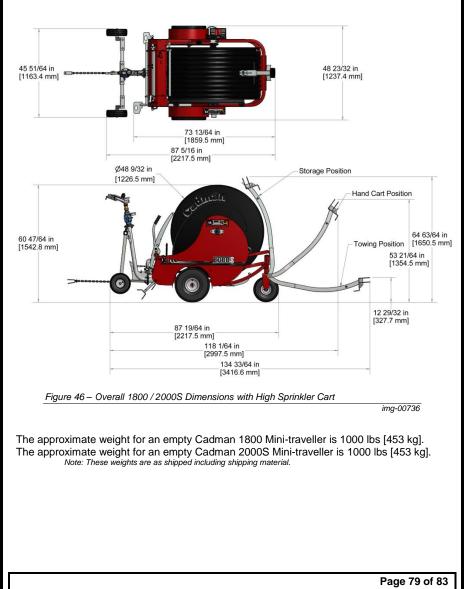




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Approximate 1800/2000S Mini-Traveller Dimensions

IMPORTANT: The dimensions shown on the following pages are only approximate. Many varying factors affect these dimensions, for example tire option, hose type, tire inflation etc.



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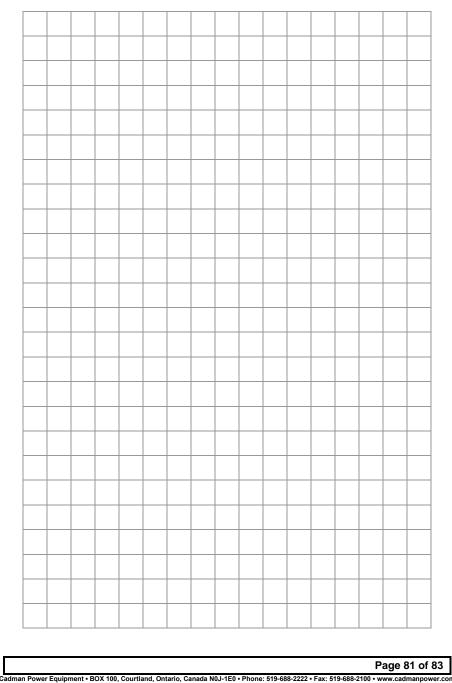


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Useful Information

Length

Length					
1 FOOT	= 12 = 0.3048	Inches Meter	1 METE	R = 39.37 = 3.2808	Inches Feet
1 ROD	= 5.029 = 16.5 = 5.5	Meters Feet Yards	1 MILE	= 5280 = 1760 = 320 = 1609	Feet Yards Rods Meters
Area					
1 SQUARE FOOT	= 144 = 0.0929	Square Incl Square Met			
1 SQUARE YARD	= 1296 = 0.8361	Square Incl Square Met			
1 SQUARE METER	= 1549.4 = 10.764	Square Incl Square Fee			
1 ACRE	= 43560 = 4047 = 0.4047	Square Fee Square Met Hectare			
1 HECTARE	= 107642.62 = 10000 = 2.47105	Square Fee Square Met Acres			
1 SQUARE MILE	= 640 = 259	Acres Hectares			
Volume					
1 GALLON (US)	= 0.8327 = 231 = 0.1337 = 8.345	Imperial Ga Cubic Inche Cubic Feet Pounds	es		
1 CUBIC FOOT	= 1728 = 7.48 = 62.4 = 28.32	Cubic Inche Gallons (U Pounds Liters			
1 ACRE INCH	= 27154 = 254	Gallons (U Cubic Mete		re	
AREA OF A CIRCLE		= Diameter ²	X 0.7854		
CYLINDER VOLUME	(US GAL.)	= Diameter ²	X 0.7854	X Length	

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Revision History

VERSION	DATE (MM/DD/YYYY)	AUTHOR	DESCRIPTION
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