CADMAN 6003
3-Point Hitch Hose Caddy

OPERATOR'S, PARTS and MAINTENANCE MANUAL
2007 EDITION

Cadman
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Revision: **TR-MAN-6003**

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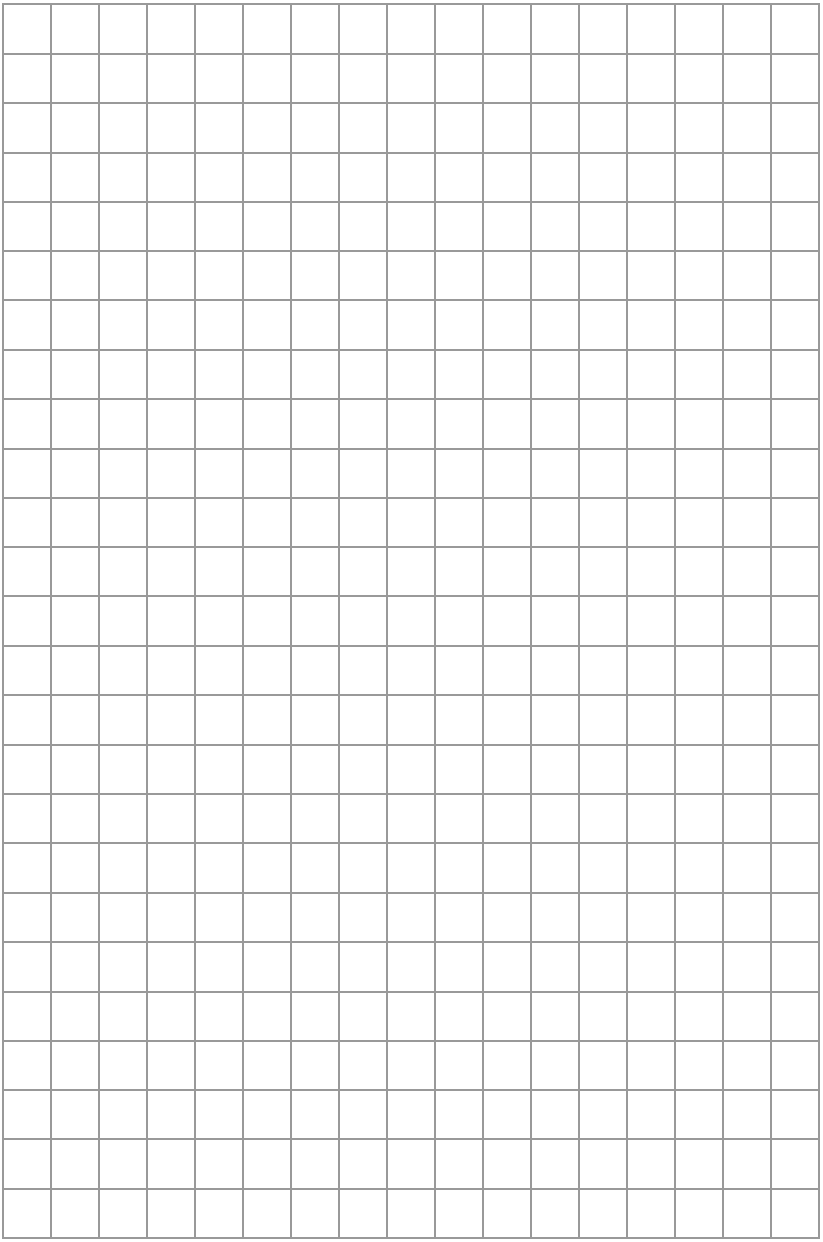

3-Point Hitch Hose Caddy

We would like to thank you for purchasing your new **Cadman 3-Point Hitch Hose Caddy**. 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 3-Point Hitch Hose Caddy

img-00168.png

BEFORE operating your new **Cadman 3-Point Hitch Hose Caddy**, 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!**

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, engines, 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.

When Applying Liquid Manure

Environmental concerns seem to be driving legislative agendas in many agricultural areas across the continent. Current and pending laws in many agricultural regions of North America are changing the ways in which the agricultural community is expected to manage their liquid animal waste products.

The changes in legislation typically target two main issues; run-off prevention during and after application and soil nutrient loading.

Run off seems to be the largest concern with nutrient application. Run off may result from several different factors, most of which are controllable. These factors include; exceeding the soil intake rate; nutrient application on steep grades; high application amounts; leaking mainline fittings and seals; sudden rainfall during or immediately after application; ground frost; etc. Constant watch must be kept and immediate action taken when necessary to prevent run off from occurring.

Soil nutrient loading depends on many variables. Some of these variables (but certainly not all) are soil type, type of crop being grown in the irrigated area, application timing, nutrient value of the material being applied (nutrient value should be assessed at the time of application as it can change throughout the year), etc.

Soil type will determine the intake rate at which liquid may be applied. Cultivation of the field just prior to application can improve the intake rate of some soils.

Great potential benefit lies in using the nutritional value of the nutrient being applied to replace some or all of the traditional chemical fertilizer used. Application timing and amount are important considerations. Soil analysis taken prior to planting and during the growth periods of the crop will help determine if there is room for further application amounts to be added prior to crop maturity. A total management plan should include provisions to end the crop season without surplus nutrients left as residual. These excess nutrients typically end up in the ground water supply. Local colleges, universities and agricultural extension services are usually a good source of information. They can usually help you determine an application program that prevents soil nutrient overload due to excess application.

Cadman Power Equipment Limited cannot possibly provide up-to-date recommendations with regard to the legal obligations you must deal with in your particular area. However, as a manufacturer of equipment used in nutrient application (liquid manure, milk house run-off, etc.), we feel it necessary to make you aware that the municipal, regional and state governing bodies in your area may have recently enacted new legislation or revised existing legislation with regard to nutrient handling practices and procedures.

It is your responsibility to make yourself aware of and abide by the current legislation in your area. Please take the time to contact your local agricultural representative to obtain the latest information regarding legal handling and application of nutrient.

Safety Precautions

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

- **DO NOT** move or operate this machine until you have read and understand these 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 and hydraulic tension has been released before attempting any service on the machine.
- **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.
- **DO NOT** remove or alter any shielding on this machine.
- **BE CERTAIN** that the machine is securely anchored (using stabilizer legs) 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.

OPERATOR NOTE

Safety is just a word until put into practice.

Safety must be the first thing on your mind when operating any piece of machinery.

Failure to follow all safety instructions can result in serious injury or death to you or any spectators.

Remember…

SAFETY FIRST!

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

Important Note

Things to keep in mind while using the Cadman 3-Point Hitch Hose Caddy are:

- This Hose Caddy is capable of holding the following number soft hoses:

Hose Size	Quantity
∅ 6 in. X 660 ft	3
∅ 8 in. X 660 ft	2 ½

- The hose is a high volume "Receiver Tank" containing a large amount of fluid. Be sure to allow enough spreading area to properly distribute the hose contents.

  Ø 6" hose contains approximately 1 ½ US Gallons per foot
  Ø 8" hose contains approximately 2 ⅔ US Gallons per foot

	660	1320	1980	2640	3300	3960	4620	5280	5940	6600	*Feet*
Ø 6"	969	1939	2908	3877	4847	5816	6785	7755	8724	9693	*US Gal*
Ø 8"	1723	3447	5170	6893	8616	10340	12063	13786	15509	17233	*US Gal*

- Hose couplings should be maintained and in good working order. Check for broken or damaged couplings and replace where necessary.

- Be sure that there is no contained pressure in the lines prior to uncoupling the hose connections. Serious injury or death to you or your spectators could result.

Safety Decals

The safety decals on this machine are intended to warn the operator of potential hazards. 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, include the current safety decal specified by **Cadman Power Equipment Limited** on any components installed during repair

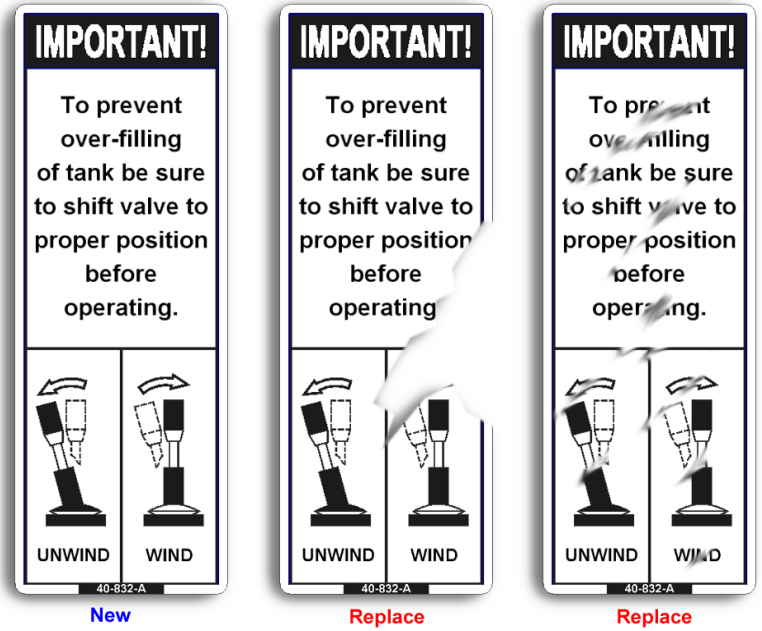

Figure 2 – Replace Decal

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To obtain the required replacement safety decals contact **Cadman Power Equipment Limited**. Re-install all decals in the proper location on the machine. For part numbers and locations please refer to the Decal Assembly drawing of this manual on page 20.

Unloading Your Hose Caddy

Complete the following instructions to unload your Hose Caddy…

Step 1

Connect your tractors 3-Point Hitch to the Hose Caddy. You can mount this unit on most Category 2, 3, or 3N three-point hitch system and for more convenience a Quick Hitch system. Connect hydraulic lines to the tractor.

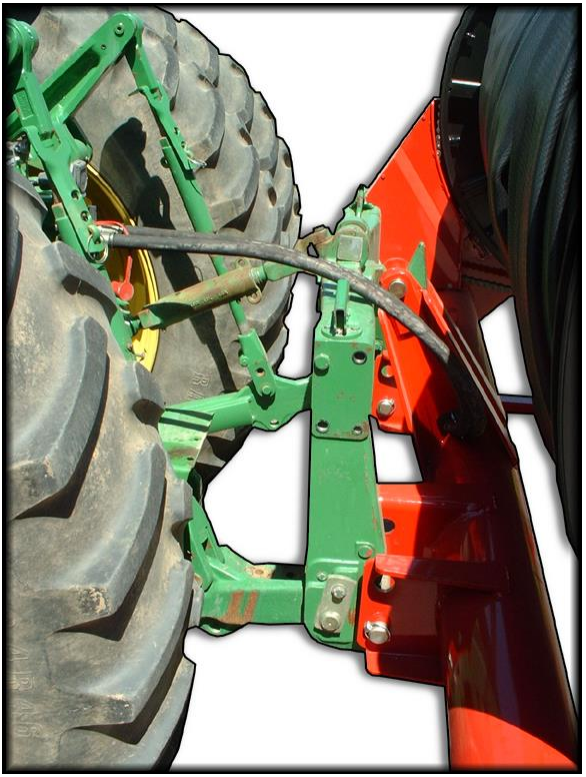


Figure 3 - Connect to caddy with 3-Point Hitch (Quick Hitch System shown)

img-00169.png

Step 2

Make sure to disengage the tractor hydraulics. Transport the hose caddy to the required site.

Step 3

Once on site, engage the tractor hydraulics so that the drum rotates away from the rear of the tractor. This will allow the soft hose to unreel.

OPERATOR NOTE

Where field conditions permit, always attempt to pull the hose either up or down sloping terrain instead of operating across a side hill.

SAFETY FIRST!

Step 4

As you unreel the soft hose drive the tractor (at a low rate of speed) along the required hose path.

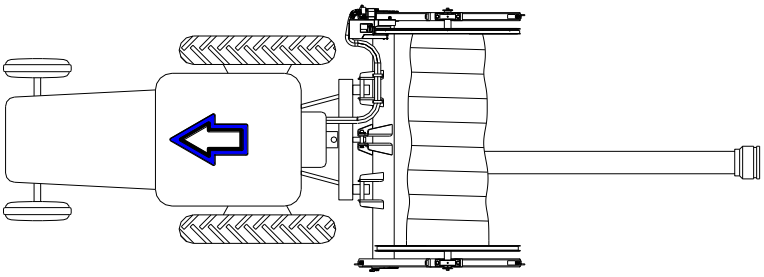


Figure 4 - Unreel Hose Slowly

img-00170.wmf

Step 5

When the soft hose is nearing the last wrap stop the tractor and disengage the hydraulics. Slowly rotate the drum so that the hose end fitting can be easily removed.

Step 6

To prevent damage to the hose fitting, remove the hose end manually from the Hose Caddy.

Loading Your Hose Caddy

Prior to loading the Hose Caddy Cadman Power Equipment Limited recommends that you clean the hoses with a proper clean-out procedure (i.e. clean-out ball launcher or water flushing).

Complete the following instructions to load your Hose Caddy…

Step 1

Position the Hose Caddy relatively straight to the hose end. Disconnect a section of the soft hose by uncoupling the clamp.

Never pull more than two (2) hoses at one time. Extensive damage to your Hose Caddy will result.

Step 2

Position the Hose Caddy with the tractor so that one end of the soft hose can be inserted into the opening in the hose drum. (see Figure 5)

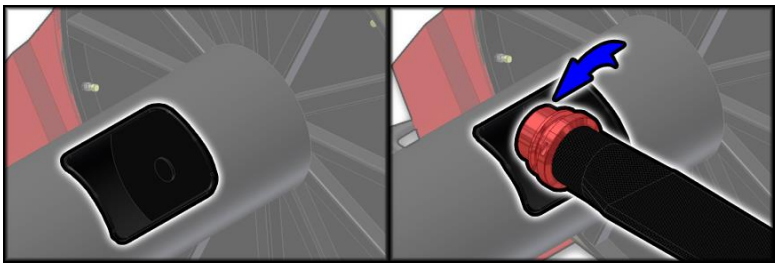


Figure 5 - Insert Hose into Reel Opening

img-00171.png

Step 3

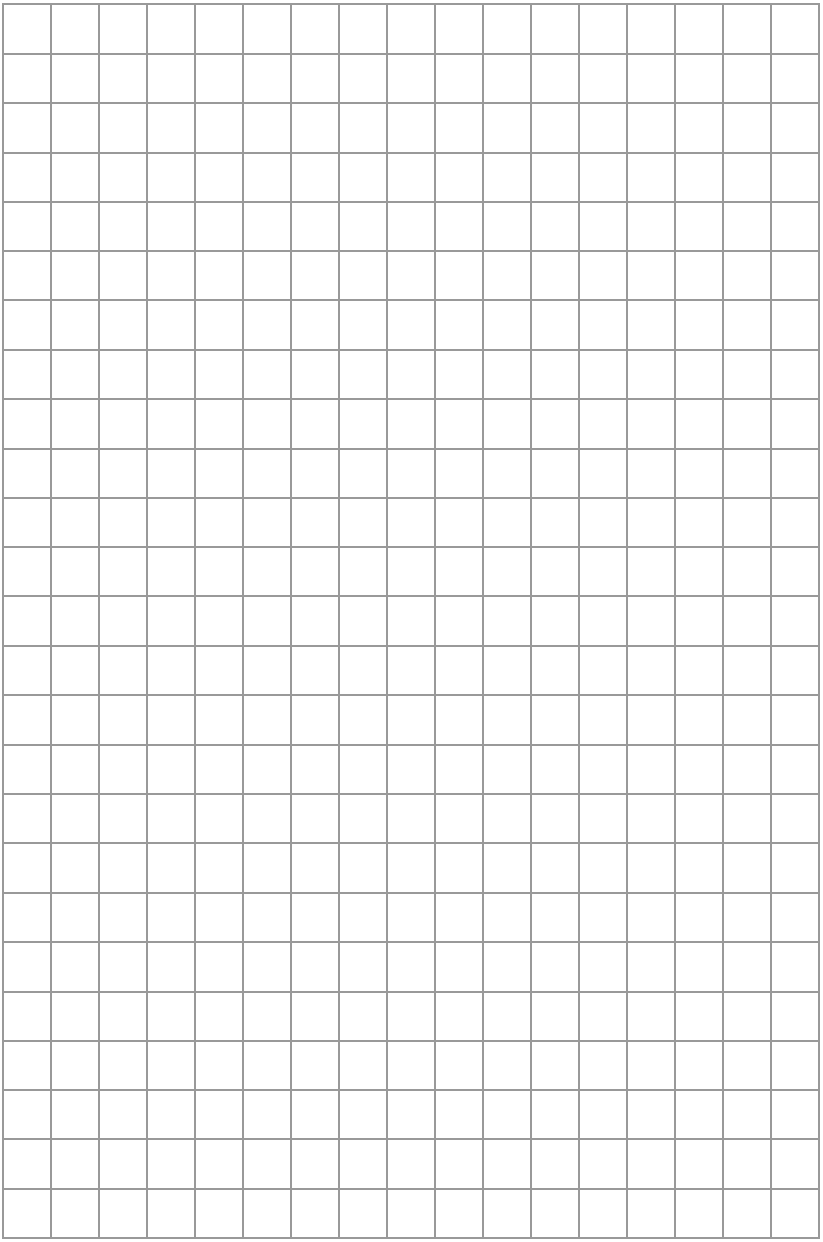
With one end of the soft hose inserted into the drum, engage the tractor hydraulics so that the drum rotates towards the tractor.

Step 4

Guide the hose so that it is evenly distributed over the entire reel.

Step 5

When the first hose has been retrieved, return to Step 1 for the remaining hoses.



Parts Section

From Serial Number:

0710603HC63 - 6003

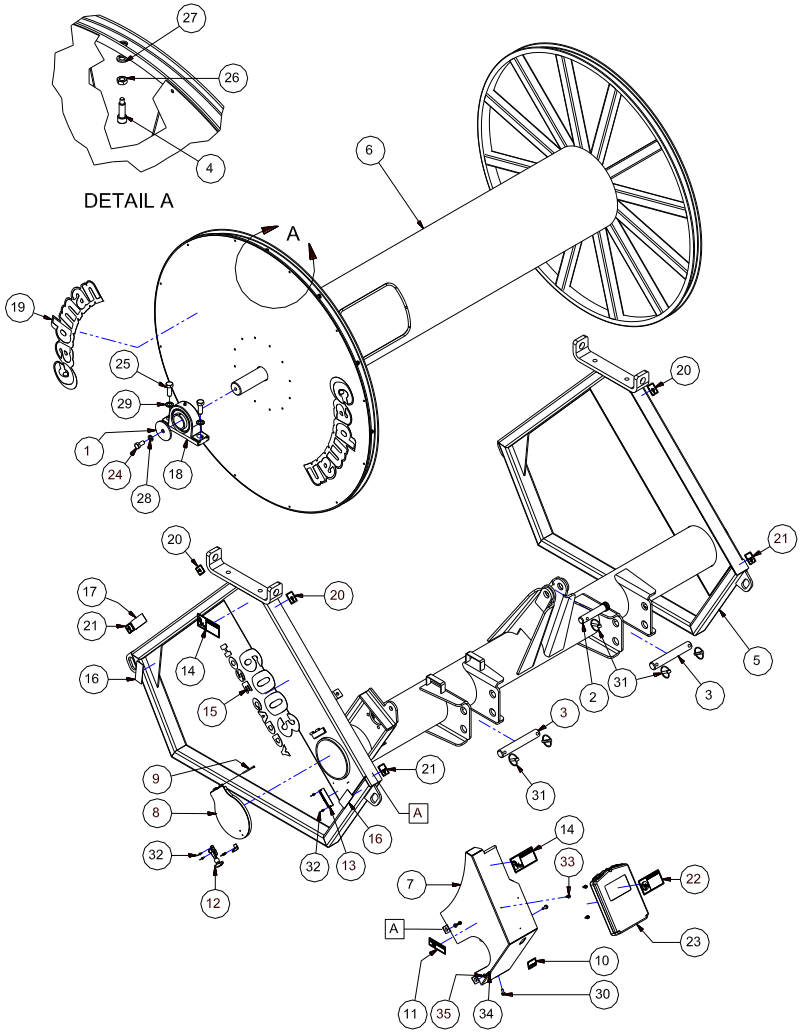
Up to Serial Number:

0700507HC63 - 6003

* All assemblies marked with an asterisk apply to all model serial numbers.

Frame Assembly *

6003
(All Models)



Frame Assembly *

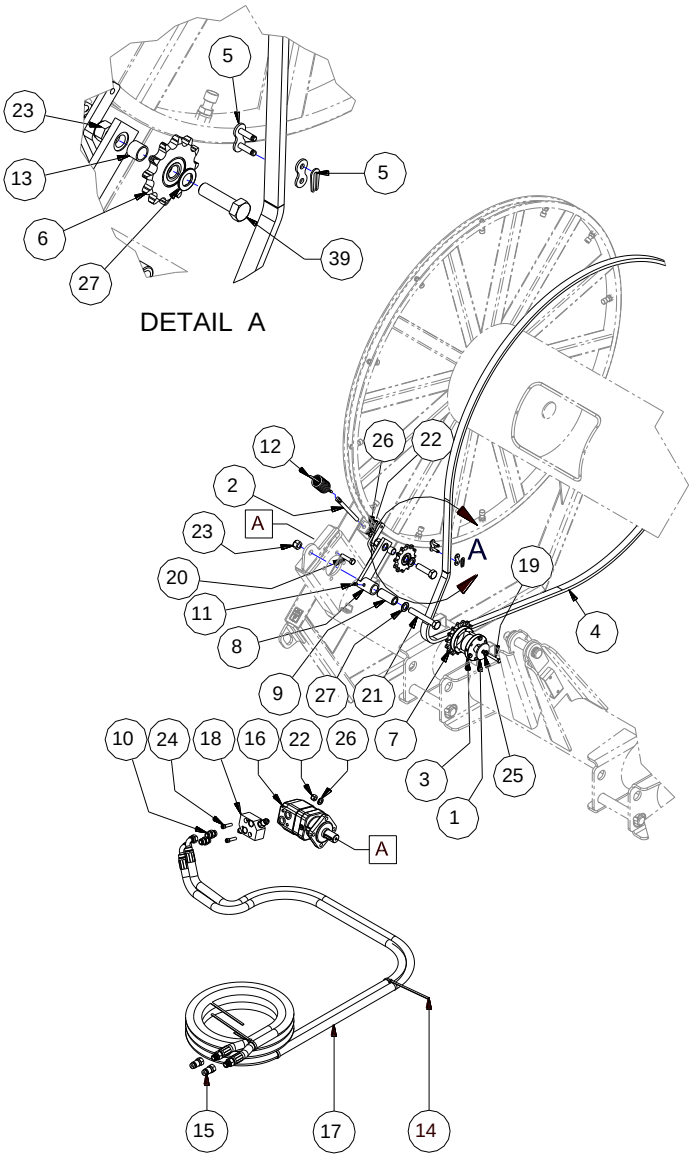
6003
(All Models)

Item	Description	Part Number	Qty
1	BEARING RETAINING PLATE	05-622	2
2	UPPER HITCH PIN	13-397	1
3	LOWER HITCH PIN	13-405	2
4	DRUM DRIVE LUG	15-040-B	12
5	FRAME, HOSE CADDY 3PT HITCH	19-400	1
6	DRUM WELDMENT	19-500	1
7	CHAIN GUARD WELDMENT	19-601	1
8	TOOL BOX DOOR	19-602	2
9	BRASS HINGE PIN	19-603	2
10	LABEL - GREASE POINT	40-041-A	1
11	LABEL - ENTANGLEMENT	40-051-A	1
12	RUBBER LATCH KIT - LATCH	40-217	2
13	CADMAN SERIAL NUMBER TAG	40-238	1
14	LABEL - ROTATING DRUM	40-287-B	3
15	DECAL - 3 POINT HOSE CADDY PANEL	40-530-6003	2
16	DECAL - AMBER REFLECTIVE	40-598	4
17	DECAL - RED REFLECTIVE	40-599	4
18	2 1/2 IN. PILLOW BLOCK BEARING	40-602	2
19	DECAL - CADMAN 3 PT HOSE DRUM	40-706	4
20	LABEL - LIFT POINT	40-933	4
21	LABEL - TIE DOWN POINT	40-947	4
22	LABEL - OPERATOR MANUAL	42-050	1
23	MANUAL PAK - SMALL	42-070	1
24	5/8-11 X 1.25 STAINLESS STEEL BOLT	88-BLT-06311X125	2
25	3/4-10 X 2.00 STAINLESS STEEL BOLT	88-BLT-07510X200	4
26	1/2-13 STAINLESS STEEL JAM NUT	88-NUT-JAM050-13	12
27	1/2 STAINLESS STEEL LOCK WASHER	88-WSR-LOC050	12
28	5/8 STAINLESS STEEL LOCK WASHER	88-WSR-LOC063	2
29	3/4 STAINLESS STEEL SAE FLAT WASHER	88-WSR-SAE075	4
30	5/16-18X3/4 LG. FLANGE HEAD BOLT	90-BLT-F03118X075	2
31	LYNCH PIN - STANDARD	90-PIN-LYNCH	5
32	3/16 X 3/8 IN. RIVET	90-RIV-019X038	10
33	1/4 X 0.75 TEK SCREW	90-SCR-TEK025X075	3
34	1/4 X 1.00 TEK SCREW	90-SCR-TEK025X100	2
35	1/4 NYLON FLAT WASHER	90-WSR-FLT025NYLON	2

Drive Assembly

6003

(From 0710603HC63)



Drive Assembly

6003

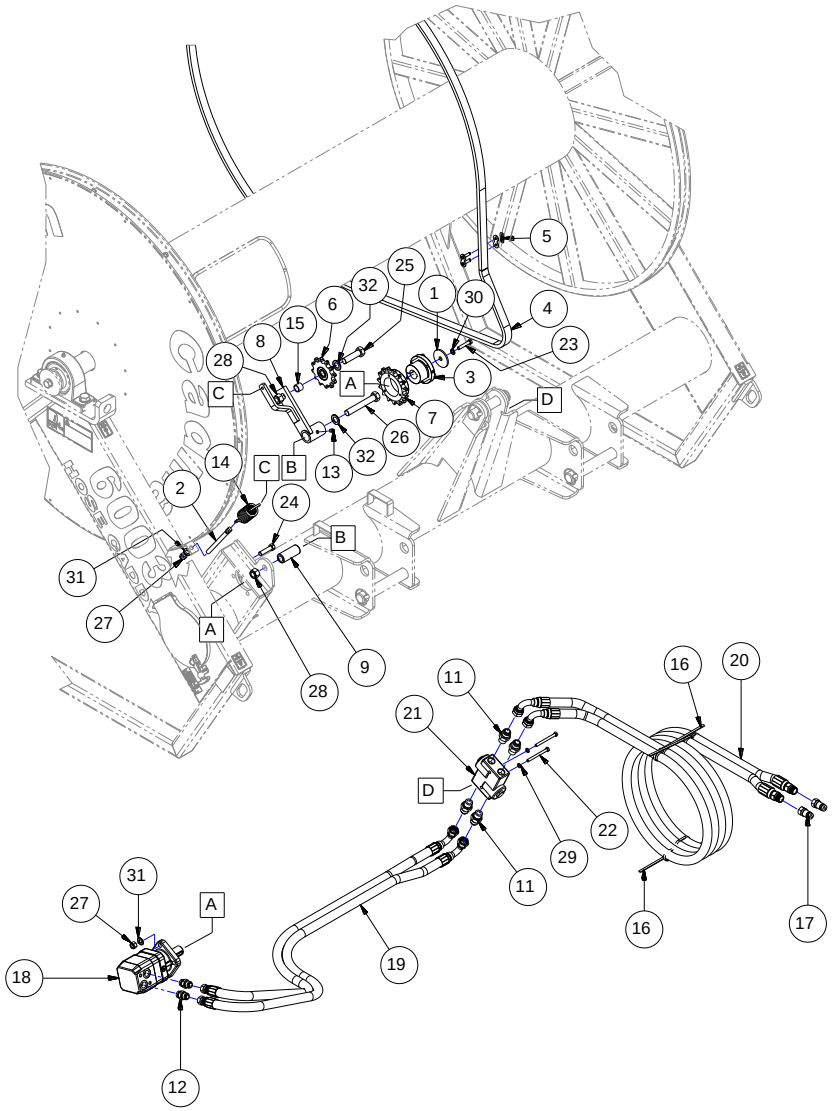
(From 0710603HC63)

Item	Description	Part Number	Qty
1	SPROCKET RETAINING PLATE	01-314-B	1
2	SPRING ADJUSTING ROD	06-635-B	1
3	QD BUSHING 1 1/4 X 5/16 IN. KEYWAY	10-BUS-QD125	1
4	#80 RIVETED ROLLER CHAIN/LINK	10-CHN-80-1RIV	78
5	#80 CONNECTING LINK	10-LNK-80CONN	1
6	#80-12 X 3/4 IDLER SPROCKET	10-SPT-80-12IDLER	1
7	80 QD 15 SPROCKET	10-SPT-80B15QD	1
8	IDLER ARM	16-610-A	1
9	IDLER ARM BUSHING, 1 1/4 IN X 3 LG.	16-611-A	1
10	ADAPTER - #10 JIC-M C #10 SAE-M	25-WHD-5315X10	2
11	1/8 NPT GREASE FITTING	40-001	1
12	1 3/4 X 5 EXT. SPRING (IDLER)	40-056	1
13	3/4 X 3/4 IN. LG. SPACER	40-118	1
14	8.50 IN H.D. CABLE TIE BLACK UV	40-470	4
15	HYDRAULIC COUPLER TIP	40-563	2
16	HYDRAULIC MOTOR - 510 RPM @ 3440	40-609	1
17	3/4 IN. X 132 IN. LG. HYDRAULIC HOSE	40-HHZ-0160	2
18	DOUBLE CROSS PORT RELIEF VALVE	40-HYD-CPR	1
19	3/8-16 X 2.00 STAINLESS STEEL BOLT	88-BLT-03816X200	1
20	1/2-13 X 2.00 STAINLESS STEEL BOLT	88-BLT-05013X200	4
21	3/4-10 X 5.00 STAINLESS STEEL BOLT	88-BLT-07510X500	1
22	1/2-13 STAINLESS STEEL LOCK NUT	88-NUT-LOC050-13	5
23	3/4-10 STAINLESS STEEL LOCKNUT	88-NUT-LOC075-10	2
24	3/8-16 X 1.50 SHCS GR.8	88-SCR-SH03816X150	2
25	3/8 STAINLESS STEEL SAE WASHER	88-WSR-SAE038	1
26	1/2 STAINLESS STEEL SAE FLAT WASHER	88-WSR-SAE050	5
27	3/4 STAINLESS STEEL SAE FLAT WASHER	88-WSR-SAE075	6

Drive Assembly

6003

(0700507HC63 or earlier)



Drive Assembly

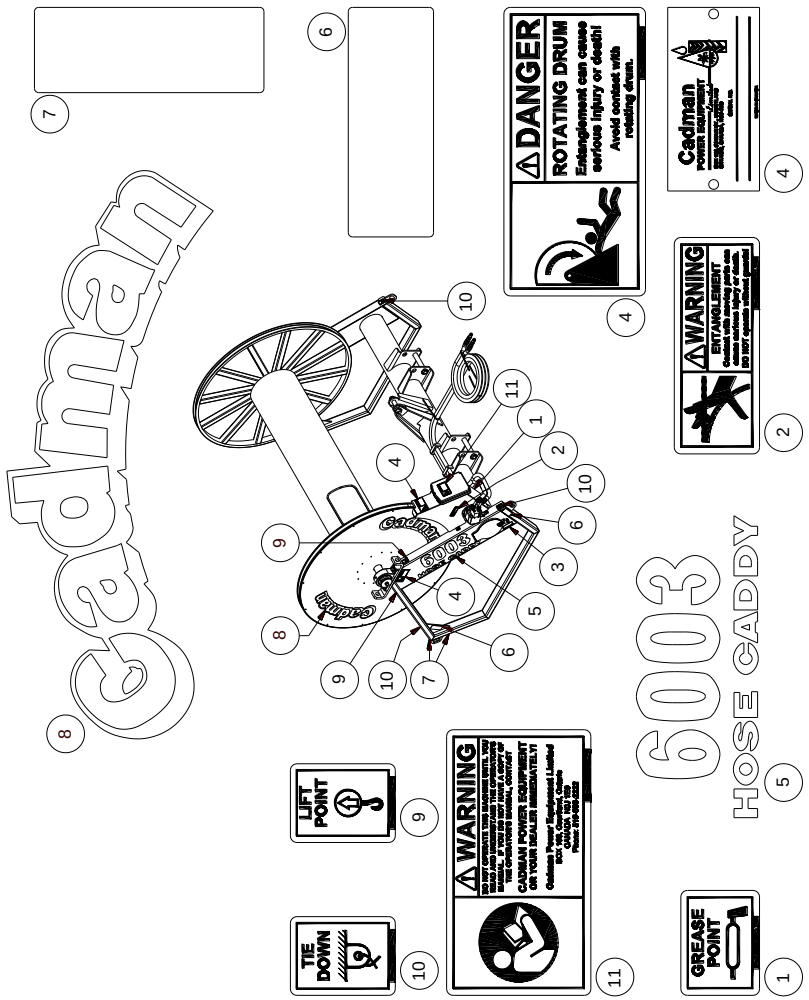
6003

(0700507HC63 or earlier)

Item	Description	Part Number	Qty
1	SPROCKET RETAINING PLATE	01-314-B	1
2	SPRING ADJUSTING ROD	06-635-B	1
3	QD BUSHING 1 1/4 X 5/16 IN. KEYWAY	10-BUS-QD125	1
4	#80 RIVETED ROLLER CHAIN/LINK	10-CHN-80-1RIV	1
5	#80 CONNECTING LINK	10-LNK-80CONN	1
6	#80-12 X 3/4 IDLER SPROCKET	10-SPT-80-12IDLER	1
7	80 QD 15 SPROCKET	10-SPT-80B15QD	1
8	IDLER ARM	16-610-A	1
9	IDLER ARM BUSHING, 1 1/4 IN X 3 LG.	16-611-A	1
10	DRUM WELDMENT	19-500	1
11	ADAPTER, #12 JIC-M X #12 NPT-M	25-WHD-5205X12	4
12	ADAPTER - #10 JIC-M C #10 SAE-M	25-WHD-5506X10	2
13	1/8 NPT GREASE FITTING	40-001	1
14	1 3/4 X 5 EXT. SPRING (IDLER)	40-056	1
15	3/4 X 3/4 IN. LG. SPACER	40-118	1
16	8.50 IN H.D. CABLE TIE BLACK UV	40-470	4
17	HYDRAULIC COUPLER TIP	40-563	2
18	HYDRAULIC MOTOR - 510 RPM @ 3440	40-609	1
19	3/4 IN. X 62 IN. LG. HYDRAULIC HOSE	40-723	2
20	3/4 IN. X 60 IN. LG. HYDRAULIC HOSE	40-724	2
21	CUSHION RELIEF VALVE	40-HYD-DWV752000	1
22	5/16-18 X 3.50 STAINLESS STEEL BOLT	88-BLT-03118X350	2
23	3/8-16 X 2.00 STAINLESS STEEL BOLT	88-BLT-03816X200	1
24	1/2-13 X 2.00 STAINLESS STEEL BOLT	88-BLT-05013X200	4
25	3/4-10 X 2.75 STAINLESS STEEL BOLT	88-BLT-07510X275	1
26	3/4-10 X 5.00 STAINLESS STEEL BOLT	88-BLT-07510X500	1
27	1/2-13 STAINLESS STEEL LOCKNUT	88-NUT-LOC050-13	5
28	3/4-10 STAINLESS STEEL LOCKNUT	88-NUT-LOC075-10	2
29	5/16 STAINLESS STEEL LOCK WASHER	88-WSR-LOC031	2
30	3/8 STAINLESS STEEL SAE WASHER	88-WSR-SAE038	1
31	1/2 STAINLESS STEEL SAE FLAT WASHER	88-WSR-SAE050	5
32	3/4 STAINLESS STEEL SAE FLAT WASHER	88-WSR-SAE075	6

Decals *

6003
(All Models)



Decals *

6003
(All Models)

Item	Description	Part Number	Qty
1	LABEL - GREASE POINT	40-041-A	1
2	LABEL - ENTANGLEMENT	40-051-A	1
3	CADMAN SERIAL NUMBER TAG	40-238	1
4	LABEL - ROTATING DRUM	40-287-B	3
5	DECAL - 3 POINT HOSE CADDY PANEL	40-530-6003	2
6	DECAL - AMBER REFLECTIVE	40-598	4
7	DECAL - RED REFLECTIVE	40-599	4
8	DECAL - CADMAN 3 PT HOSE DRUM	40-706	4
9	LABEL - LIFT POINT	40-933	4
10	LABEL - TIE DOWN POINT	40-947	4
11	LABEL - OPERATOR MANUAL	42-050	1

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:

Maintenance must be done ONLY when the machine is on level ground and disconnected from the tractors hydraulics and 3-point hitch.

Each Use

Maintenance Item	Figure	Procedure
Visually inspect equipment	N / A	Walk around the unit and inspect for loose, missing or damaged items. Replace missing or damaged items and tighten loosened items.
Adjust, if necessary, the alignment and tension of the drive chain	Figure 6	The drive chain (around the drum) is properly tensioned when it has no visible slack and is seating properly onto the drive pegs when the drum rotates. Adjustments are made by turning the locknut (3/4" wrench) on the spring adjustment rod.
Lubricate all grease fittings	Figure 7	Using a grease gun, lubricate each grease fitting with an appropriate amount of acceptable grease (see "Lubricants")

Table 1 - Required Maintenance - Each Use

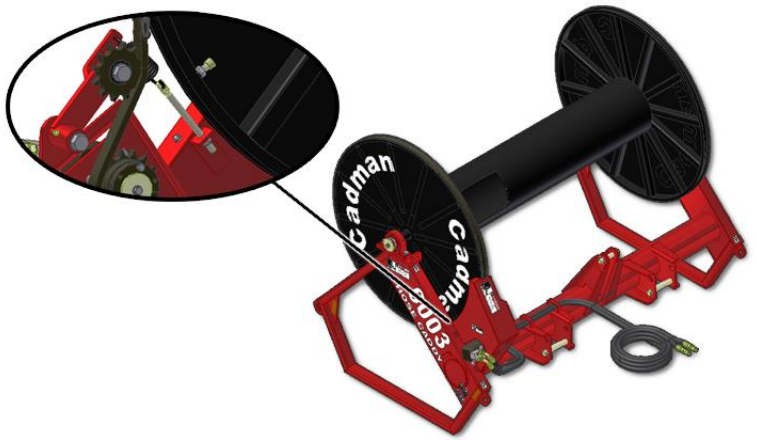


Figure 6 - Chain Tension Adjuster

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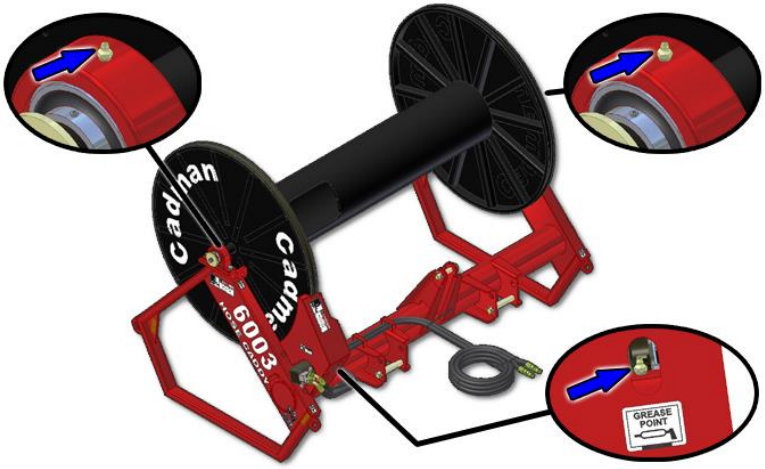

Figure 7 - Grease Points

img-00167.png

Before Storing

Maintenance Item	Figure	Procedure
Visually inspect equipment	N / A	Walk around the unit and inspect for loose, missing or damaged items. Replace missing or damaged items and tighten loosened items.
Clean unit	N / A	Wash down the unit's exterior. Washing thoroughly with reduce corrosion damage.
Lubricate drive chain	N / A	Brush the drive chain with acceptable grease. (see "Lubricants")

Table 2 - Required Maintenance - Before Storing

NOTE:

Proper storage of the **Cadman 3-point Hitch Hose Caddy** will greatly prolong the operational life of the unit.

Lubricants

Grease: Any good grade multi-purpose, waterproof grease is compatible with the greasing requirements of your **Cadman 3-Point Hitch Hose Caddy**.

Useful Information

Length

1 FOOT	= 12	Inches	**1 METER**	= 39.37	Inches
1 ROD	= 0.3048	Meter	**1 MILE**	= 3.2808	Feet

Area

1 SQUARE FOOT	= 144	Square Inches
	= 0.0929	Square Meters
1 SQUARE YARD	= 1296	Square Inches
	= 0.8361	Square Meters
1 SQUARE METER	= 1549.4	Square Inches
	= 10.764	Square Feet
1 ACRE	= 43560	Square Feet
	= 4047	Square Meters
	= 0.4047	Hectare
1 HECTARE	= 107642.62	Square Feet
	= 10000	Square Meters
	= 2.47105	Acres
1 SQUARE MILE	= 640	Acres
	= 259	Hectares

Volume

1 GALLON (US)	= 0.8327	Imperial Gallons
	= 231	Cubic Inches
	= 0.1337	Cubic Feet
	= 8.345	Pounds
1 CUBIC FOOT	= 1728	Cubic Inches
	= 7.48	Gallons (US)
	= 62.4	Pounds
	= 28.32	Liters
1 ACRE INCH	= 27154	Gallons (US)
	= 254	Cubic Meters / Hectare

AREA OF A CIRCLE = Diameter X Diameter X 0.7854

CYLINDER VOLUME (US GAL.) = Diameter X Diameter X Length X 5.8748

Revision History

VERSION	DATE (MM/DD/YYYY)	AUTHOR	DESCRIPTION