

GENERIC CAROUSEL

Service Manual

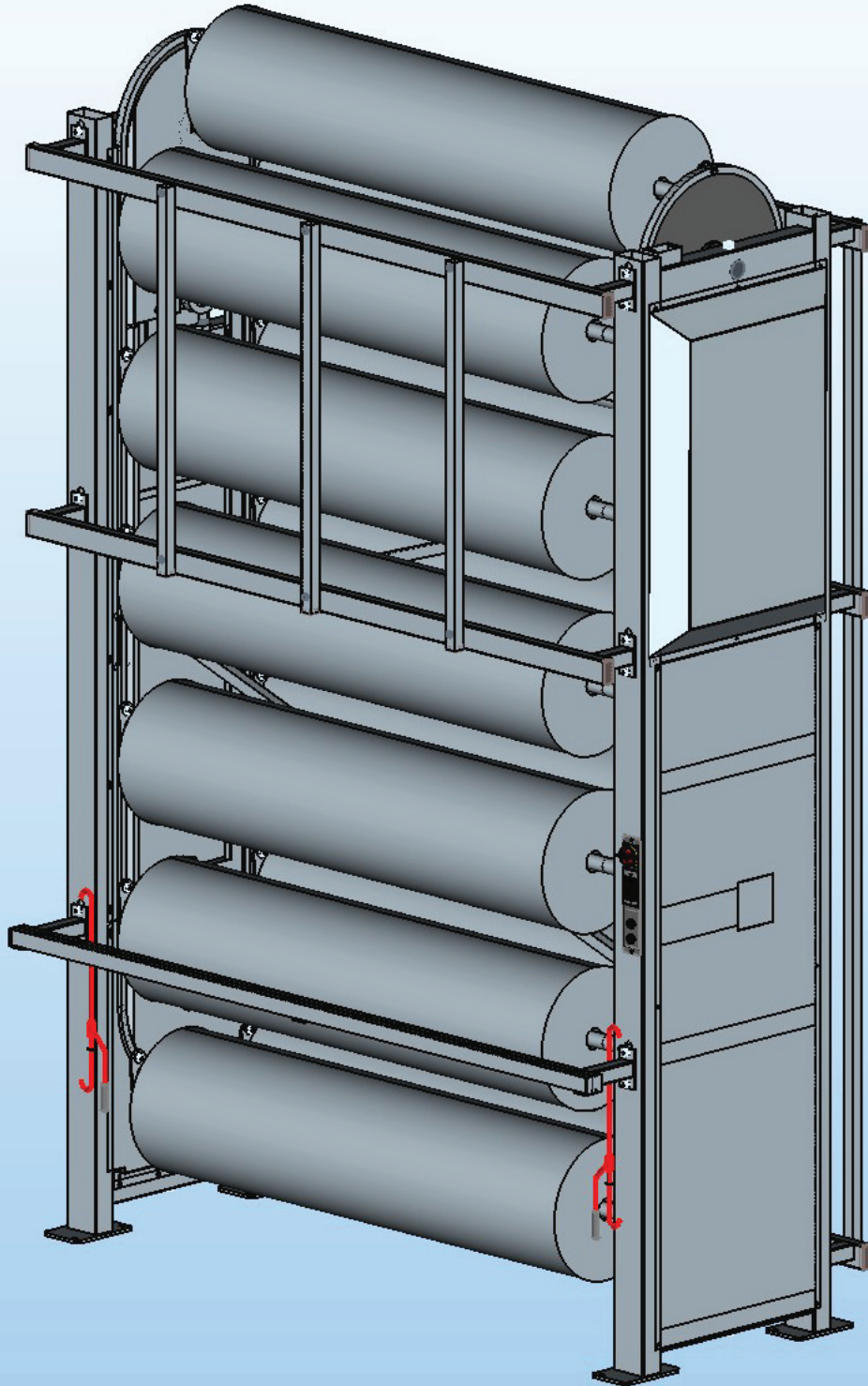


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INTRODUCTION

This machine has been carefully designed and constructed to provide you with many years of dependable service. It has been built to meet or exceed current U.L. or C.S.A. standards. With proper care in operation and maintenance, this machine will assist you in maximizing your efficiency.

To ensure the utmost value and performance from your machine, please read this manual carefully to be sure correct operation procedures are followed.

This manual provides you with operation, troubleshooting, and maintenance procedures for your machine. However, if help is needed or if any of these procedures are unclear, please contact Vidir at 1-800-210-0141.

SERIAL NUMBER

Please be sure to record the serial number for any future service calls and parts ordering.

Serial No. _____

IMPORTANT CAUTION NOTICE:

Vidir has made every effort to protect operators and others from injury due to mechanical parts movement and electrical safety. As with any mechanical device, the operator is responsible to inspect the condition of the machine prior to use and adhere to safe operating procedures at all times.

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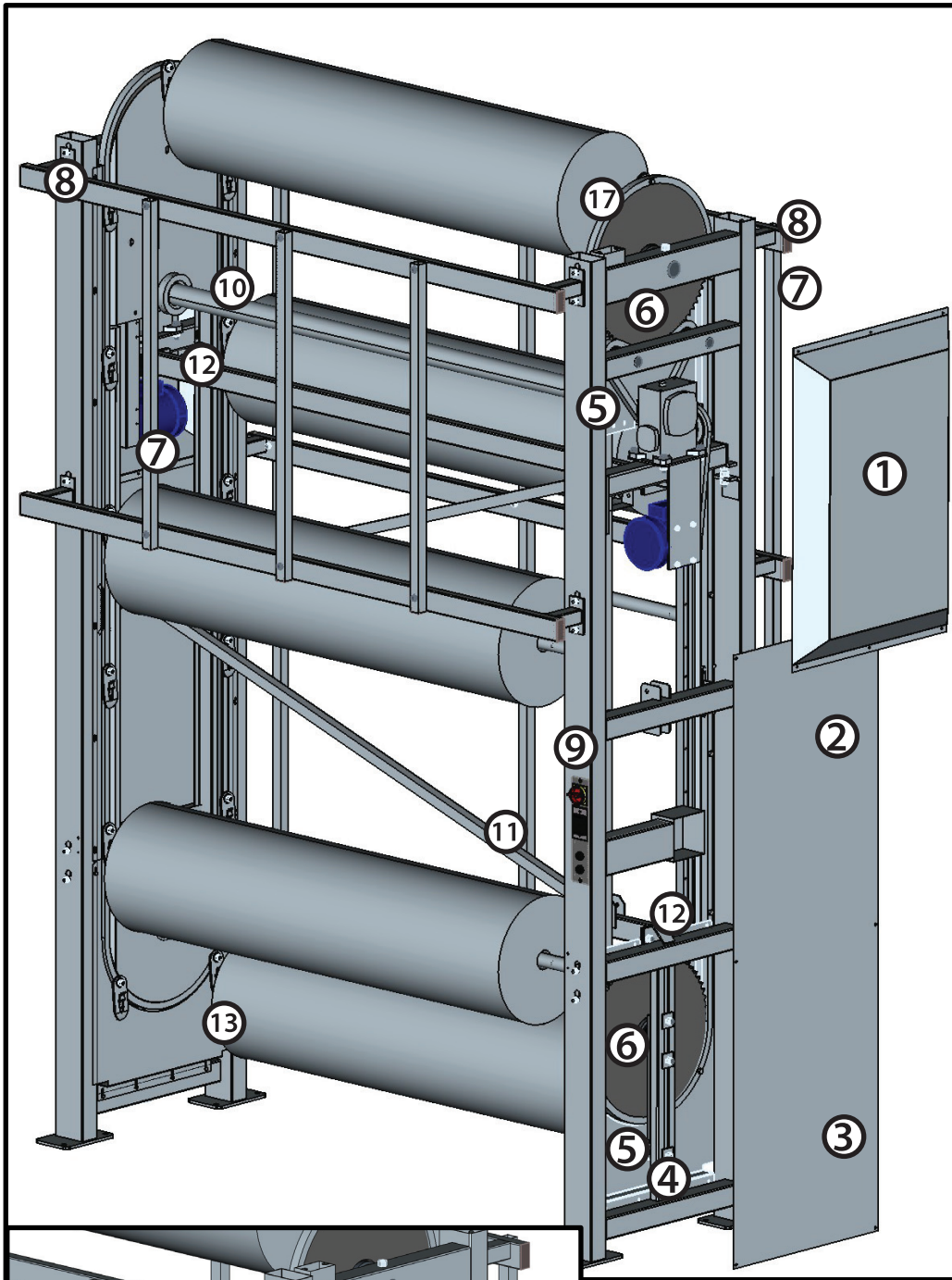
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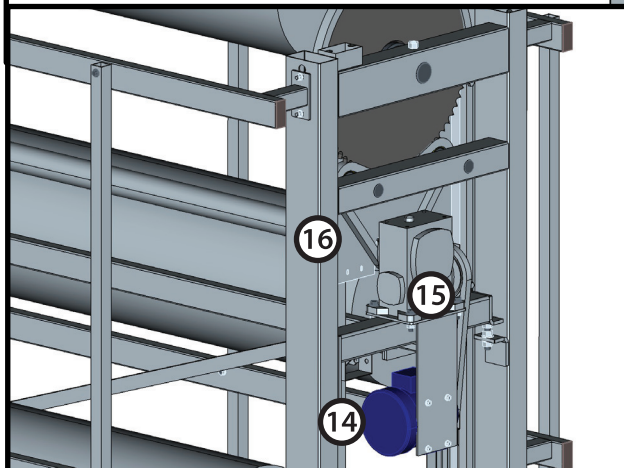
Service: 1-866-821-2647
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Phone: 1-352-243-7310
Fax: 1-352-243-7320



INTRODUCTION



- 1... Top Motor Cover
- 2... Centre Cover
- 3... Bottom Cover
- 4... Chain Tightener
- 5... Top & Bottom Inside Covers
- 6... Sprocket
- 7... Upright Guard
- 8... Cross Guard
- 9... Control Panel
- 10.... Drive Shaft with Coupler Chains
- 11.... Diamond Brace
- 12.... Cross Brace
- 13.... Rod
- 14.... Motor
- 15.... Gearbox
- 16.... Drive Chain
- 17.... Load Chain



SAFETY

Important Safety Instructions

Read this manual carefully to ensure familiarity with the controls and the proper use of the equipment. The warnings and precautions contained in this manual **DO NOT** cover all potential dangers, and hazards that may be encountered.

This manual is intended to provide basic safety guidelines for proper operation, maintenance, and servicing of the machine.

WARNING – Risk of injury

- Installation and service of this machine should be performed by qualified service personnel.

- Only properly trained service personnel should have access to the interior components of the machine.

- Electrical connections should be performed by qualified electricians.

- Operation must be performed by trained personnel. Never allow children or unauthorized persons to operate the machine.

Use this machine only for its intended purpose as described by these instructions.

Do not use attachments not recommended or approved by the manufacturer.



Never operate this machine if it has been damaged, or if it is not working properly. Keep all guards and shields in place.

Keep area clean and organized during operation.

For further instruction please contact our service line.

SAFETY

Safety Hazards

 A yellow triangular warning sign with a black border. Inside the triangle, a black silhouette of a person is shown with their arm caught in a vertical shaft or mechanism.	Safety Hazard - Entanglement	- loose clothing or jewelry could become entangled or drawn in
 A yellow triangular warning sign with a black border. Inside the triangle, a black silhouette of a person's foot is shown being crushed between two horizontal rollers or a heavy roll of material.	Safety Hazard - Crushing/Rolling	- material roll may present a hazard of crushing or rolling over toes or hands when loading or unloading machine.

Cease all operation and lock out machine in any case where the machine is not operating as designed and call Vidir Service.

PREPARATIONS

Electrical Specifications

Machine Power Requirements: Please see machine label for electric power requirements.

FEATURES:

This machine is equipped with a Master Switch. This switch is highly visible and easy to reach. It shuts off all power to the machine. Ensure the Master Switch is in the OFF position before working on the machine, to prevent accidental operation of the machine.

NOTE:

All relays and transformers are located in the electrical box behind the control panel. These can be accessed by removing the screws that secure the control panel cover to the box. Ensure the Master Switch is in the OFF position before removing the control panel.

CAUTION:

If the motors start to overload and stop during the operation of the machine remove pressure from the Push Button. Do not try to force the machine. Do not continue to activate and deactivate an overloaded motor. This will cause excessive wear and motor overheating. Correct the load conditions on the machine before trying again. Refer to the section on loading the machine.

ATTENTION:

The machine should have a dedicated circuit.

Grounding Instructions

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. If product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER – Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the product is properly grounded.

Do not modify the plug provided with the product. If it will not fit the outlet, have a proper outlet installed by a qualified electrician or service person.

This product must be connected to a grounded metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the product.

PREPARATIONS

Building Requirements

The machine must be bolted to the floor before it is loaded. It is the responsibility of the building owner to ensure the building structure is adequate for the machine installation.

Electrical - please see machine label for electric power requirements. A dedicated power line and circuit breaker using machine suitable conductor wire connections and ampere rating is recommended. The machine has been designed to be hardwired to this electrical service. Once installed, an electrician must be available to hardwire the service to the junction box provided at the top of the machine. (Bottom junction boxes for floor wiring are available by special order at time of order placement.)

Installation Requirements

Vidir provides the installation equipment. This installation equipment requires a local electrical circuit at the machine installation site. Your electrician may need to run a temporary service line before the installers arrive. Installer waiting time will be billed at the going rate.

A forklift and operator should be available to unload the machine from the truck and deliver the components to the installation site as required by the installers. Additional forklift time may be required during machine setup.

Installers require a floor plan of the area with the installation location for each machine model clearly marked.

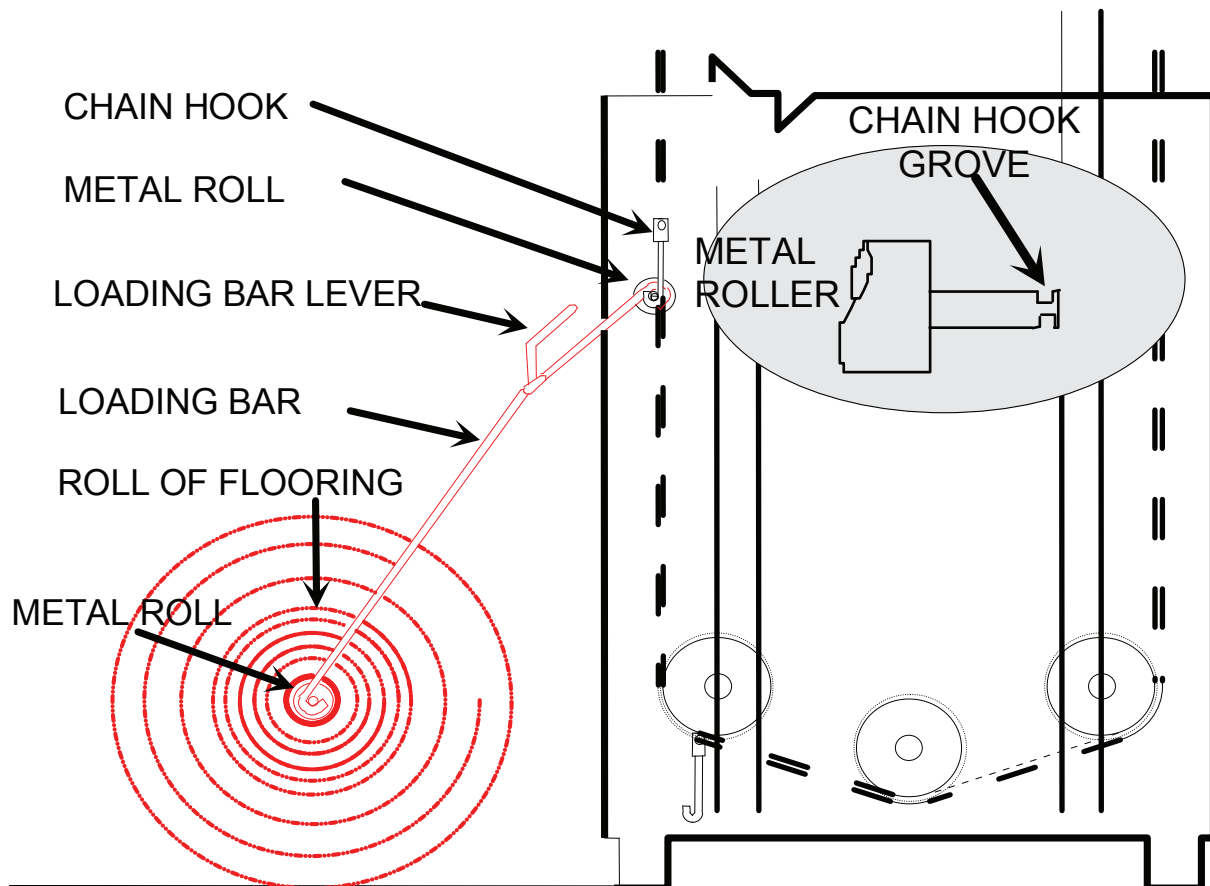
A sign-off sheet has been provided for the Store Manager to indicate approval of the placement of the installed machine. Once completed, our installers are available to bolt down the machine under the manager's supervision.

An electrician must be scheduled to connect electrical service to all machines upon completion of installation. The installation crew will then test run the carousels and do a final check.

OPERATING INSTRUCTIONS

Loading the Carousel

1. Enter the security code to activate the machine.
2. Place the roll of carpet on the floor directly in front of the carousel, parallel and centered to the rack. Make sure the carpet is placed so that the roll will unroll pile side up for cutting and measuring.
3. Insert a metal roller through the flooring roll with an equal length extending from each end. Push the roll close to the carousel.
4. Hook lever ends of loading bars onto the metal roller on carousel directly above the hook to be loaded. Hook other ends of loading bars onto metal roller on the floor as illustrated.
5. Place hooks on shaft of metal rollers. Make sure the loading bars will extend to the hooks that you are loading.
6. Carefully rotate carousel in the "up" position until the loading bars are at a comfortable working height. Make sure the end of the metal roller does not catch on the side of the carousel while you are loading.



OPERATING INSTRUCTIONS

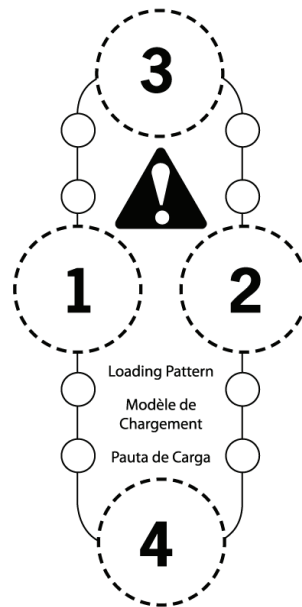
Loading the Carousel (con't)

- Pull down on loading bar levers to hook metal roller onto chain hook. Slowly and CAREFULLY guide one end at a time into the chain hooks. Make sure the roll is completely and securely seated in the hook and safety latch is securely in place. Release levers and **remove** loading bars immediately and hang them back onto the hooks provided.

**** Important Notice****

LOAD ONLY EVERY 4TH ROLL WHEN FILLING EMPTY CAROUSEL

KEEP LOAD DISTRIBUTED EVENLY AT ALL TIMES - REMOVE PLASTIC FROM THE ENDS OF THE ROLLS - IF IT GETS CAUGHT IN THE CHAIN IT CAN CAUSE SERIOUS DAMAGE TO THE MACHINE AND PERSONAL INJURIES MAY RESULT



OPERATING INSTRUCTIONS

Operating the Carousel—Vinyl Cutting Bar

The vinyl cutting bar allows for the dispensing of vinyl directly off of the machine onto a re-roller and to measure the appropriate amount of vinyl for the customer.

The vinyl cutting bar is a fast and efficient method of improving customer service on your Vidir vinyl carousel.

Cutting Procedure:

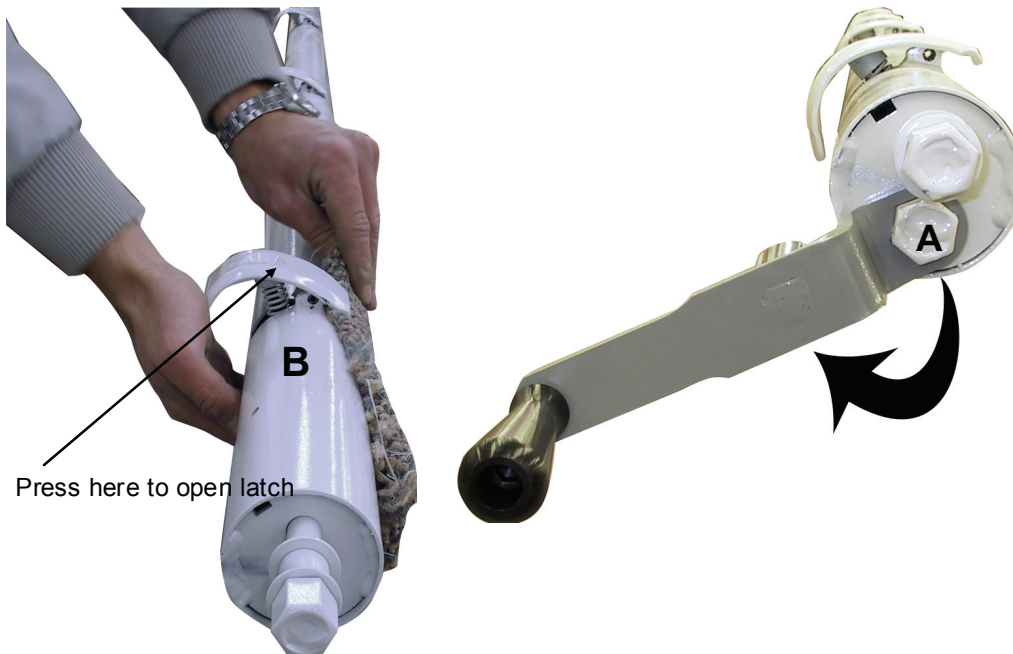
1. Pull the vinyl across the cutting bar to the line of cut as indicated on the cutting bar.
2. Lower the counter assembly and set the counter to zero.
3. Once the counter is set, pull the vinyl and clip to the easy-to-use re-roller. Turn the crank to roll and measure the desired length of vinyl.
4. Once the desired length has been dispensed, lower the hold-down clamps located at both ends of the cutting surface.
5. To cut the vinyl, simply turn the cutter crank. Un-clamp the vinyl and secure the dispensed roll with tape or shrink wrap.

To remove dispensed roll, swing the self storage roll cradles in place, drop the roll onto the cradles and remove the re-roller.

OPERATING INSTRUCTIONS

Operating the Carousel—Material Re-Roller

1. To begin the re-rolling process, engage all re-roller latches by turning latch nut (A) in the counterclockwise direction till firmly engaged.
2. Remove the wrench and place the re-roller tube into the support brackets
3. To insert the material press down on each latch separately and insert the vinyl.
4. Let go of the latch and the spring-loaded latch will grasp the material.
5. Once all 4 latches (B) are grasping the vinyl you can re-roll the product onto the pole.
6. To release the material turn the latch nut (A) in the clockwise direction. Note: If re-roller is difficult to remove from the roll of product try rotating the re-roller counter clock wise for a few turns before attempting to remove the re-roller from the product.



7. Slide the re-roller out of the material roll.

Note: If re-roller is difficult to remove from the roll of product try rotating the re-roller counter clock wise for a few turns before attempting to remove the re-roller from the product. Also unrolling some of the roll of material before starting to wrap it on the re-roller will allow the material to wrap up loosely onto the re-roller for the first few wraps. This will help ease the amount of effort needed to remove the re-roller from the cut roll of material.

OPERATING INSTRUCTIONS

212e Keypad



When replacing the keypad, please use same model

This machine has the built-in safety feature of a security keypad to prevent unauthorized operation of this machine. This keypad has been supplied with factory settings, including the password required to activate the controls.

Password Customization - the keypad requires a moment to register each step:

PRESS

1. 99#
2. Current code*
3. 30#
4. 1#
5. NEW 4 DIGIT CODE *
6. NEW 4 DIGIT CODE *
7. *

KEY PAD LIGHT

- steady red
- flashing yellow
- flashing yellow
- flashing yellow
- fast flashing yellow
- flashing yellow
- steady red

Once this sequence is completed, your new password is programmed and should be used to activate the controls.

PLEASE NOTE:

The security password protects against unauthorized operation of the equipment. Factory default setting allows the machine to be idle for 30 seconds before the password expires. After 30 seconds of machine idle time, the keypad will time out and operator's password must be reentered to activate the controls.

Note: To reset your keypad to factory settings, please refer to the instructions located on next page.

OPERATING INSTRUCTIONS

212e Keypad

Restore Factory Defaults:

1. Turn the red power switch off.
2. Press and hold both up and down push-buttons at the same time.
3. While holding both the up and down push-buttons turn the red power switch on.
4. Continue to press and hold both the up and down push-buttons until you hear a couple of beeps.
5. Release both of the up and down push-buttons.
6. The yellow light should be flashing.

Follow the steps below to reset the keypad - the keypad requires a moment to register each step:

Press Keys	Keypad Lights
46#	flashing yellow
00000#.....	flashing yellow
00000#.....	flashing yellow
*	fast flashing yellow
*	flashing yellow
30#	flashing yellow
1#.....	flashing yellow
ENTER CODE *	fast flashing yellow
ENTER CODE *	flashing yellow
*	steady red

Changing Code and Timer:

Press Keys	Keypad Lights
99#	steady red
2. Current code*	flashing yellow
3. 30#	flashing yellow
4. 1#	flashing yellow
5. NEW CODE *	fast flashing yellow
6. NEW CODE *	flashing yellow
7. *	steady red

OPERATING INSTRUCTIONS

Resetting IEI (stainless steel plate) keypad

In use from July 2000 - July 2006



When replacing the keypad, please use same model

To restore key pad to factory default settings

1. Remove keypad from machine
2. Press dip (black or white) switch button on back of keypad [top] (behind key #2) Flashing yellow light should come on [button is right beside the row of 8 resistors]

Press Keypad light

- | | |
|-------------------------------|----------------------|
| 1. 46#..... | flashing yellow |
| 2. 00000#..... | flashing yellow |
| 3. 00000#..... | flashing yellow |
| 4. *..... | fast flashing yellow |
| 5. *..... | flashing yellow |
| 6. 30# (= 30 sec max 90)..... | flashing yellow |
| 7. 1#..... | flashing yellow |
| 8. CODE *..... | fast flashing yellow |
| 9. CODE *..... | flashing yellow |
| 10. *..... | steady red |

OPERATING INSTRUCTIONS

Visonic Keypad

In use until July 2000



When replacing the keypad, please use same model

Wait a few seconds after each programming step. Press firmly, and slow.
Don't try to program the keypad too fast.
To set the keypad:

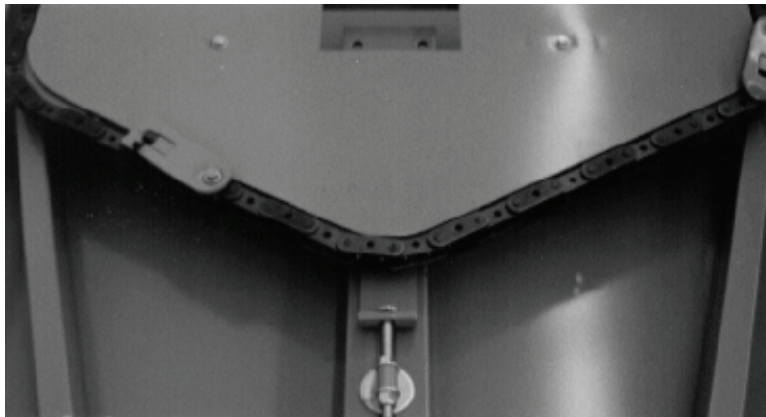
Press Keys	Keypad Lights
1234 (current code 4321)	Green light will flash
101#.....	Green light will flash rapidly
New code #	Steady green for 2 seconds then slow flash
New code #	Steady green for 2 seconds then slow flash
Wait 5 seconds then press #	Slow green after 2 seconds
2	Rapid flashing green
98.....	Set timer between 2 and 98 seconds
#	Steady green for 2 seconds then rapid
3	Flashing green
3	Flashing green
#	Back to red light
#	Back to red light

MAINTENANCE

Maintenance Procedures

To correct squeaking,

1. Oil with W 30 chain oil.
2. Check for oil leaks around gearboxes
3. Inspect drive chain for wear, proper alignment, and tension. (Max. 1/8" deflection on drive chain)
4. Inspect main load chain and tighten if it is too loose. (With the carousel loaded, the chain should not sag more than 1" from bottom chain guard. See diagram for location of tightening bolt.)
5. Do a visual inspection of hooks and roll pins. The hooks should swing freely. Replace damaged hooks. (New lock nuts must be used when replacing hooks).
6. Inspect safety latches to ensure they are in good working condition.
7. Check belt tension on electric motor. Belt should be tight. To tighten belt, loosen the four bolts on the motor, move motor down, and then re-tighten bolts.
8. Inspect the snap rings that hold the sprockets in place. Make sure snap rings are fully snapped into position.
9. Inspect all bearings.



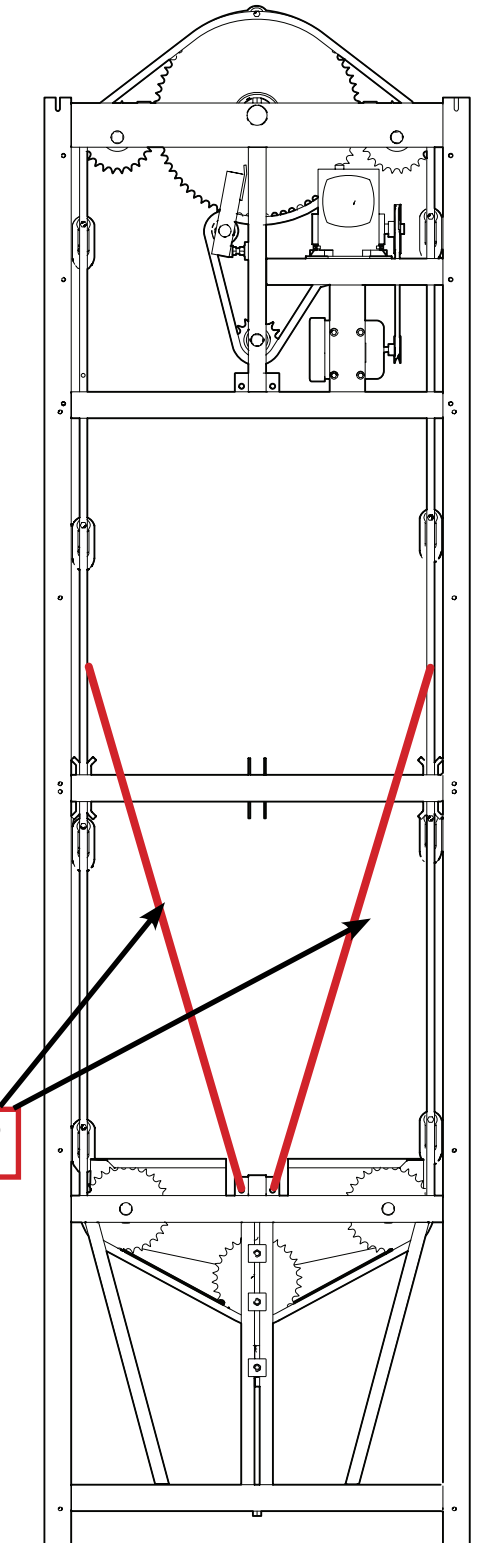
- NOTE: Oil the chains with W 30 oil.**
- apply oil to chain using an oil soaked sponge
 - Wipe with dry rag to remove excess oil

MAINTENANCE

Changing Gearbox on Carpet Carousel

1. Unload 5 rolls of carpet.
2. Rotate carousel to the point where the empty spot is at the top of the carousel.
3. Secure the chains with a loading chain or a loading strap. Must be securely fastened to prevent chain from free wheeling at all.
4. Remove top inside and top outside cover.
5. Rotate gearbox input shaft until the drive chain is slack on both sides of the gear. (this ensures that your load is secured properly)
6. Loosen the drive chain tightener.
7. Loosen motor V belt.
8. Remove V belt
9. Remove gearbox mounting bolts (4)
10. Remove gear box and drive chain. (you may have to remove the master link from the drive chain to do this.
11. Remove pulley and sprocket from the old gear box and install on the new one.
12. Reinstall the gear box
13. Place gear box on the mounting brackets.
14. Drape drive chain over the sprocket.
15. Slide gear box into place careful to keep drive chain tight. (no loose links between it and the big sprocket.
16. Join the drive chain.
17. Bolt gear box into place.
18. Align gear box sprocket and big sprocket
19. Tighten gear box sprocket set screws
20. Tighten drive chain.
21. Install motor belt and tighten.
22. Install covers
23. Remove safety chains.
24. Test run the machine.

SECURE LOAD CHAINS ON BOTH SIDES

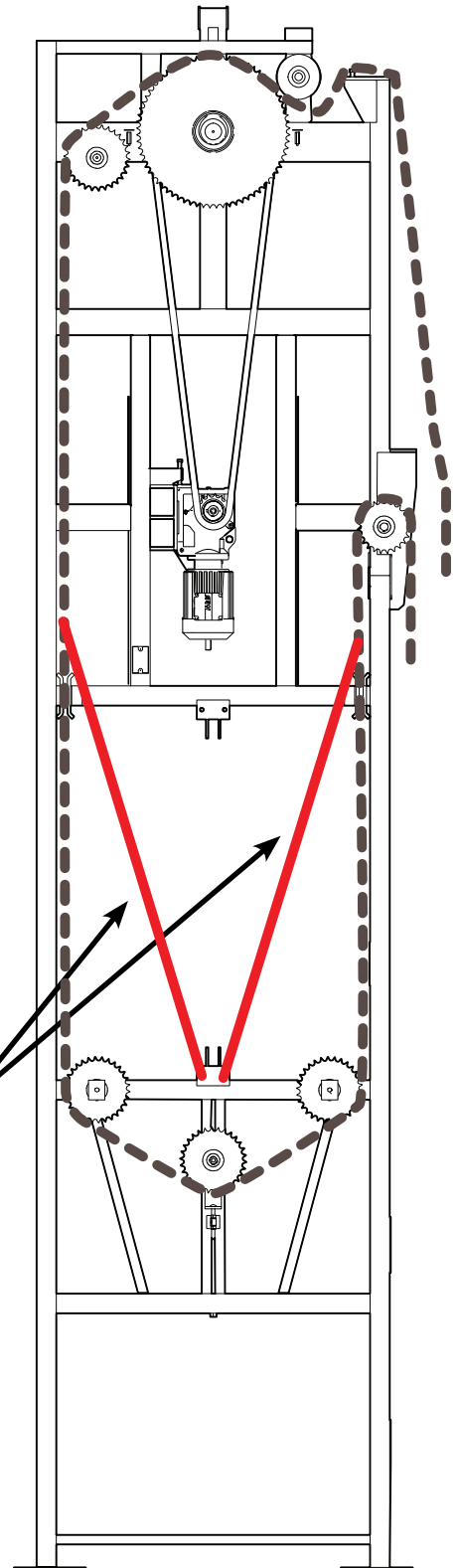


MAINTENANCE

Changing Gearbox on Menard's OTT Carousel

1. Unload 5 rolls of carpet.
2. Rotate carousel to the point where the empty spot is at the top of the carousel.
3. Secure the chains with a loading chain or a loading strap. Must be securely fastened to prevent chain from free wheeling at all.
4. Remove top inside and top outside cover.
5. Rotate gearbox input shaft until the drive chain is slack on both sides of the gear. (this ensures that your load is secured properly)
6. Loosen the drive chain tightner.
7. Loosen motor V belt.
8. Remove V belt
9. Remove gearbox mounting bolts (4)
10. Remove gear box and drive chain. (you may have to remove the master link from the drive chain to do this.
11. Remove pulley and sprocket from the old gear box and install on the new one.
12. Reinstall the gear box
13. Place gear box on the mounting brackets.
14. Drape drive chain over the sprocket.
15. Slide gear box into place careful to keep drive chain tight. (no loose links between it and the big sprocket.
16. Join the drive chain.
17. Bolt gear box into place.
18. Align gear box sprocket and big sprocket
19. Tighten gear box sprocket set screws
20. Tighten drive chain.
21. Install motor belt and tighten.
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SECURE LOAD CHAINS
ON BOTH SIDES



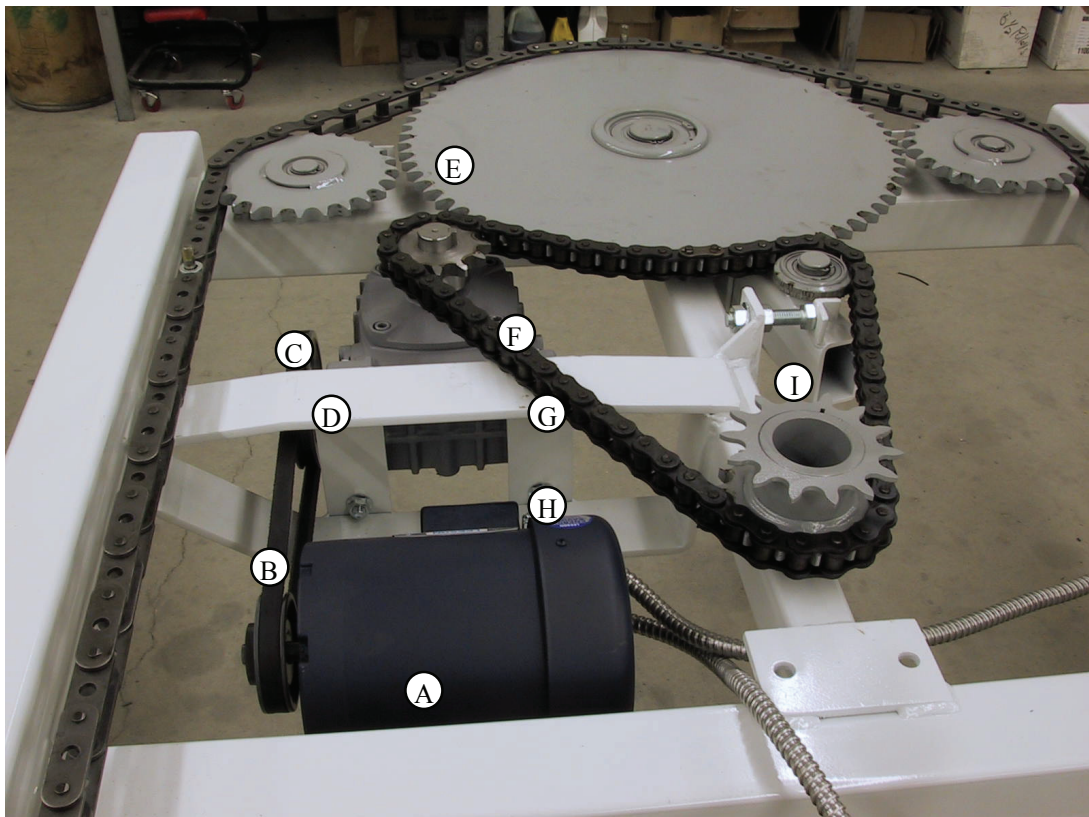
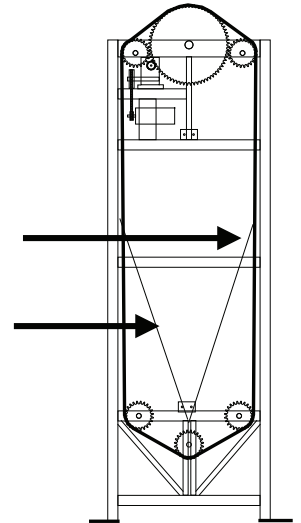
MAINTENANCE

Replace Oil Seals on Gearbox

1. Remove a minimum of 3 rolls of carpet.
2. Rotate the carousel to the point where the 3 empty rolls are at the top the machine to expose the inside top chain cover.
3. Secure the product chain by attaching a chain or a heavy duty strap to each of the load chains on the carousel. And attaching to the bottom cross brace.
4. Working off the platform remove the top inside cover.
5. Turn gearbox input pulley far enough to release any load on the chain.

TO REPLACE THE INPUT SHAFT SEAL ONLY.

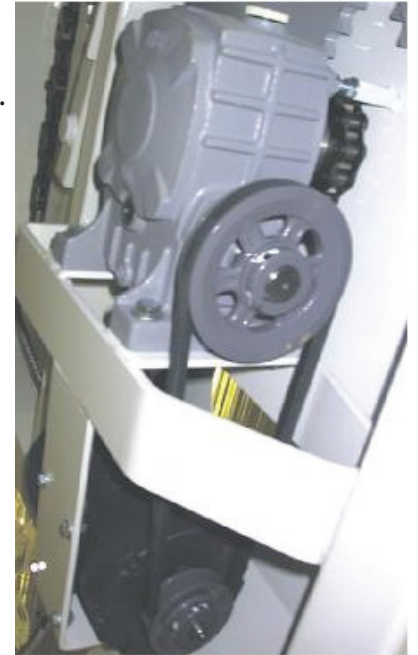
1. Loosen belt tension by loosening the 4 nuts that secure the motor (A) to the frame.
2. Remove belt (B)
3. Check gearbox input shaft(C) for any endplay. If there is endplay add or remove shims as needed during installation. Shaft should spin freely but should have no endplay.
4. Loosen setscrews (2) on the gearbox pulley. (C)
5. Remove gearbox pulley (C)
6. Place an oil catch pan underneath the gearbox.
7. Remove 4 cap screws that secure the cap (D) that houses the seal.
8. Remove cap with seal. (only a small amount of oil should escape)
9. Remove old seal and replace with a new one. PART # DGP23
10. Clean shaft with fine emery cloth right where the seal runs on the shaft (any small amount of paint on the shaft will cause the seal to fail)
11. Apply some silicone type gasket maker on the cap.
12. Install cap with new seal. (D)



MAINTENANCE

Replace Oil Seals on Gearbox (con't)

13. Install carefully and tighten 4 cap screws evenly.
14. Check input shaft for endplay. Add or remove shims as needed to correct.
15. Install input shaft pulley. Set it at the same spot as prior to disassembly.
16. Tighten setscrews on the pulley.
17. Install belt (B)
18. Tighten belt by sliding down the motor (A) (use a 2 x 4 about 2 feet long) to pry between the motor and the gearbox mount.
19. Tighten the 4 nuts on the motor mount.
20. Install chain cover
21. Remove load chain securing devices.
22. Test run machine and check for oil leaks.



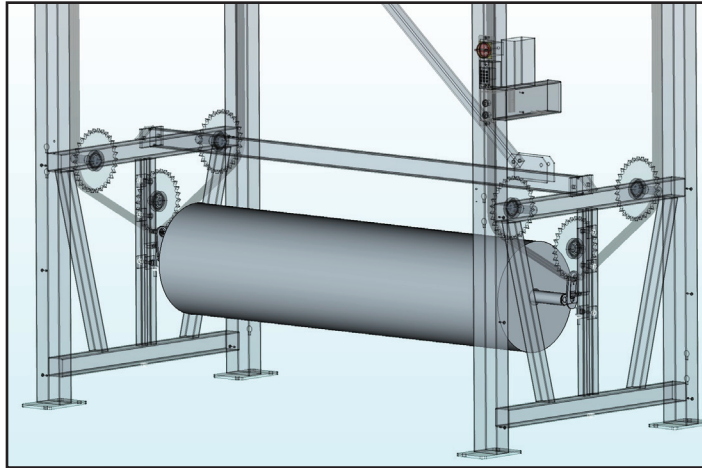
REPLACE OUTPUT SHAFT SEAL

1. Loosen drive chain (G) by releasing pressure at tension bolt (I)
2. Split drive chain (G) at the connector link.
3. Remove the 4 nuts that secure the gearbox.
4. Slide gearbox to the side.
5. Remove sprocket (E) and key.
6. Remove 4 cap screws (F) that secure the cover plate.
7. Remove and replace the oil seal.
8. Clean gasket surfaces or O-ring.
9. Apply a silicone type gasket sealer to the gear box and cover plate.(F)
10. Install gearbox cover plate.
11. Tighten 4 cap screws
12. Install gearbox sprocket be sure to position it the same as before.
13. Tighten the setscrews on the sprocket.
14. Replenish oil level on the gearbox using 80/90 w oil.
15. Install the gearbox be sure to place the chain properly on the teeth as you slide the gearbox into place.
16. Reconnect the drive chain (G)
17. Install the 4 gearbox mounting bolts and tighten securely.
18. Tighten drive chain (G) with tension bolt I till chain is tight on both sides.
19. Install belt (B)
20. Tighten drive belt (B)
21. Tighten 4 motor mounting nuts (A)
22. Install chain cover
23. Remove load chain securing devices.
24. Test run machine and check for oil leaks.

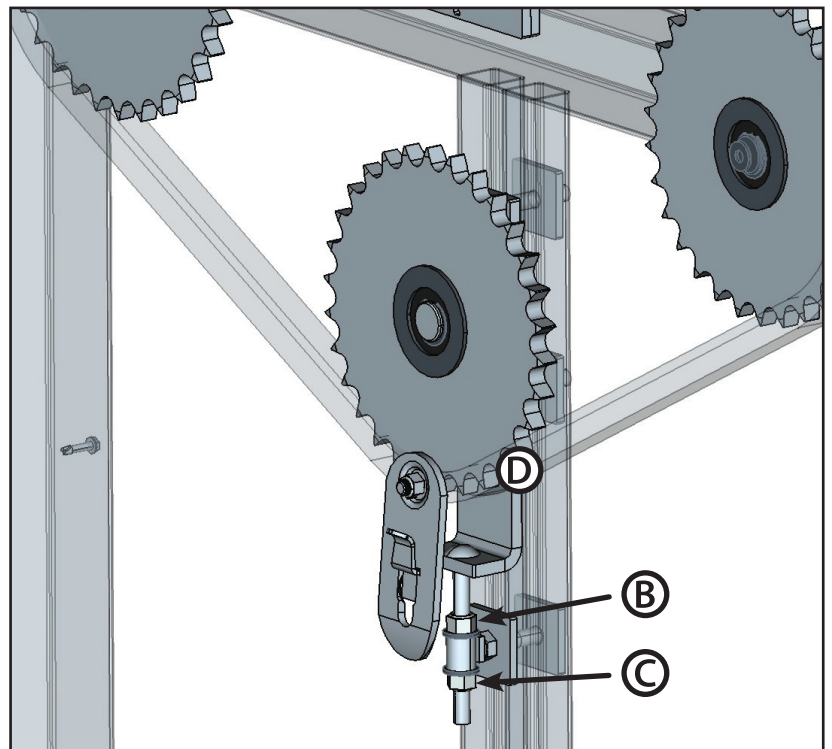
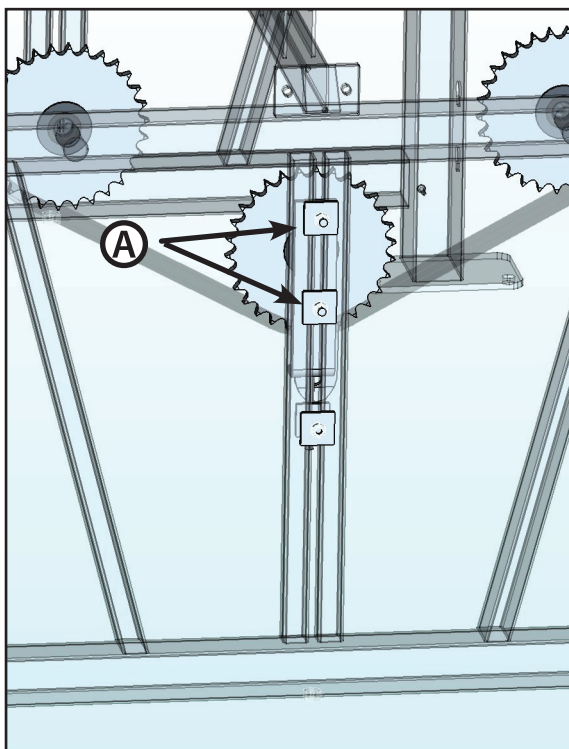
MAINTENANCE

Chain Tension

When a heavy roll is at the extreme bottom, the chain should not get pulled away from the sprocket. If this happens and/or “clicking” is present, proceed with tightening chain as follows:



- 1..... Unload enough rolls to clear the bottom area of machine.
- 2.....Loosen both nuts behind bottom sprocket (A).
- 3.....Back off top nut (B) on the draw bolt about ½”.
- 4.....Tighten bottom nut (C) on the draw bolt until the chain is tight. Note: if there is not enough room on the draw bolt to tighten the chain. Loosen nuts that secure the draw bolt and slide it down.
- 5.....Tighten chain (D) until the chain does not pull away from the sprocket, and/or “clicking” sound vanishes.
- 6.....Jam the draw bolt nuts (B), (C) against the draw bolt sleeve.
- 7.....Re-tighten nuts (A) SECURELY.
- 8.....Re-load your product.



MAINTENANCE

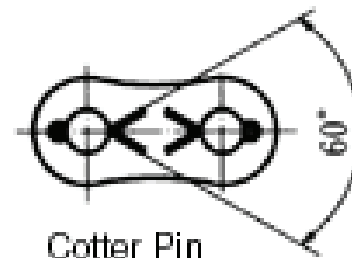
Carousel Connector Chain

Please note the following safety concern for Carpet carousels. This concern is for all carousels older than 3 years.

The cotter pins are simple to check. Rotate the carousel slowly for a full rotation to locate all the master links. There typically is 1 master link per chain. Once you locate the master link ensure the cotter pins are in good condition. The cotter pins must be bent and both legs of the cotter pin must be in good condition. (see diagram) They must not appear to be sheared or cut part way. If a cotter pin is damaged in any way it must be replaced.

Follow these procedures to follow to replace the cotter pins.

1. Rotate machine to locate the connector link.
2. Inspect the connector link if it fails to pass the test.
3. Lock out the machine.
4. Clamp links to keep them from spreading.
5. Remove one of the bad cotter pins.
6. Install new $3/32"$ x $1/2"$ cotter pin.
7. Remove the second cotter pin.
8. Install second cotter pin.
9. Remove clamping device



Cotter Pin

Figure 1

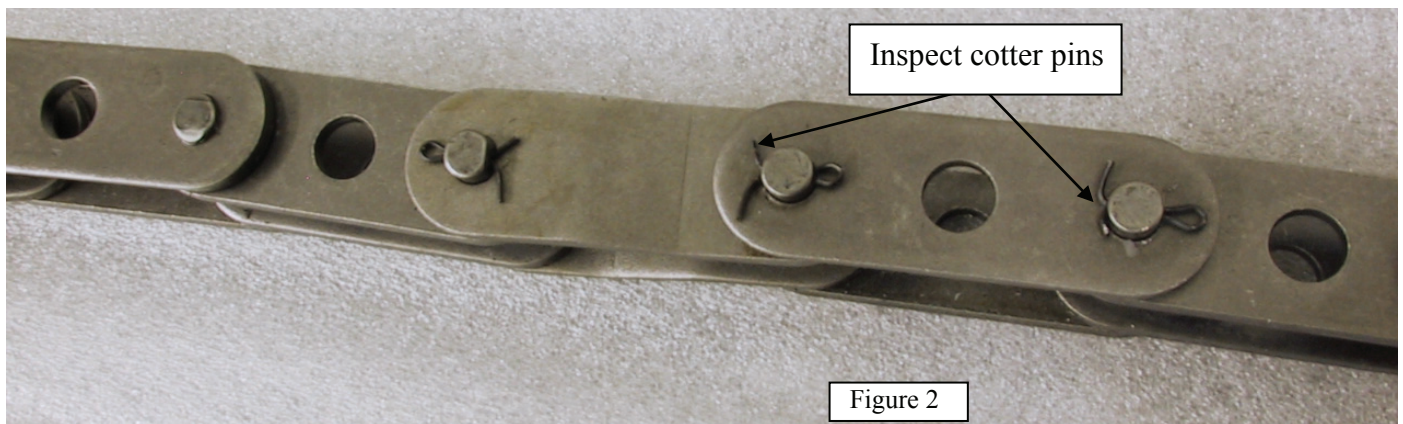
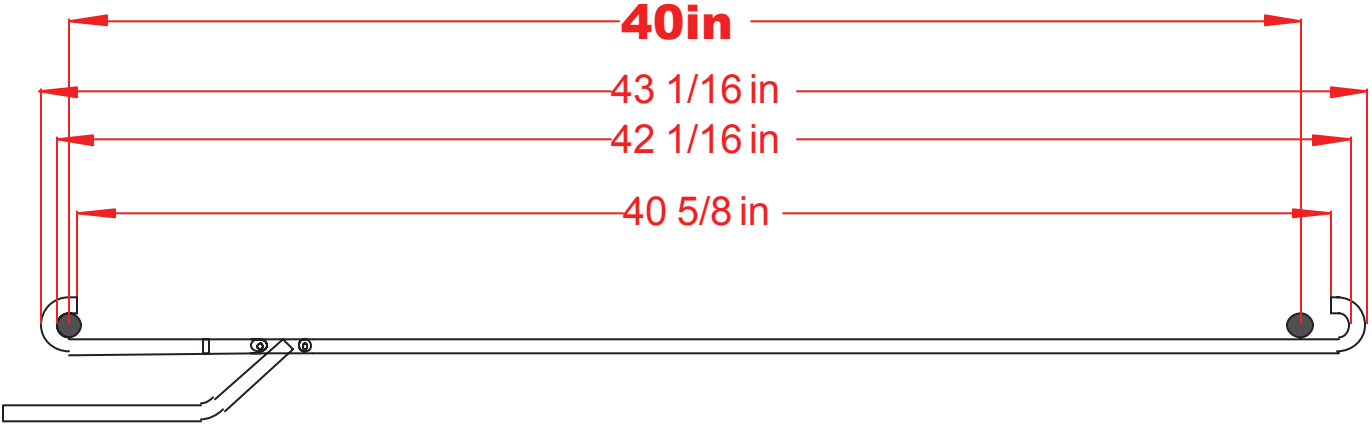


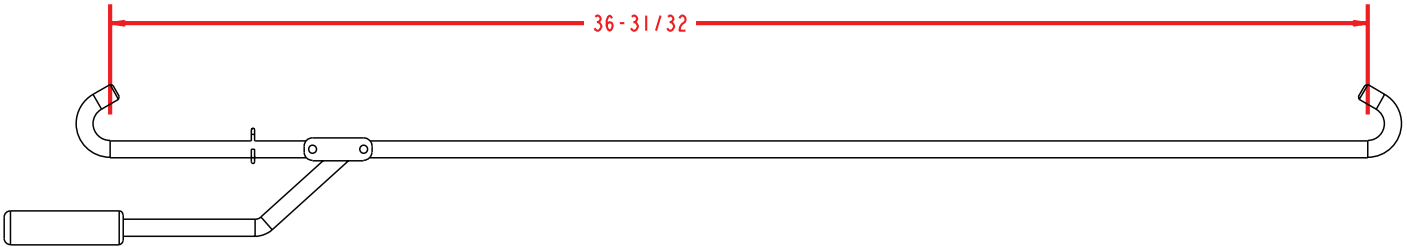
Figure 2

MACHINE COMPONENTS

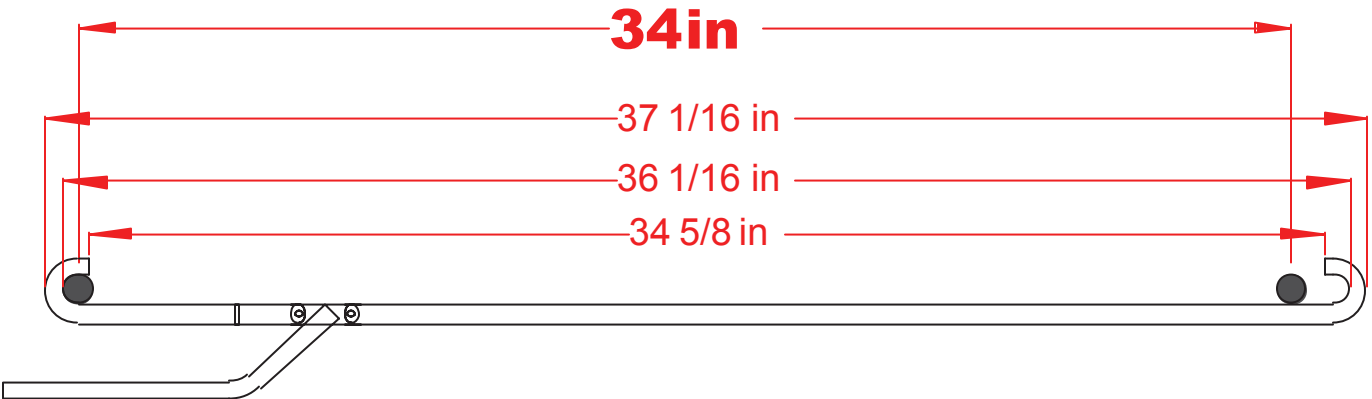
Description.....	Part
12-40 Carousel Loading Bar.....	2-48493
Loading Bar Chain Only	105-0130
Loading Bar Mount Bolt.....	001-0045
Nut (for above)	004-0015



Description.....	Part
36" Carousel Loading Bar.....	2-58046

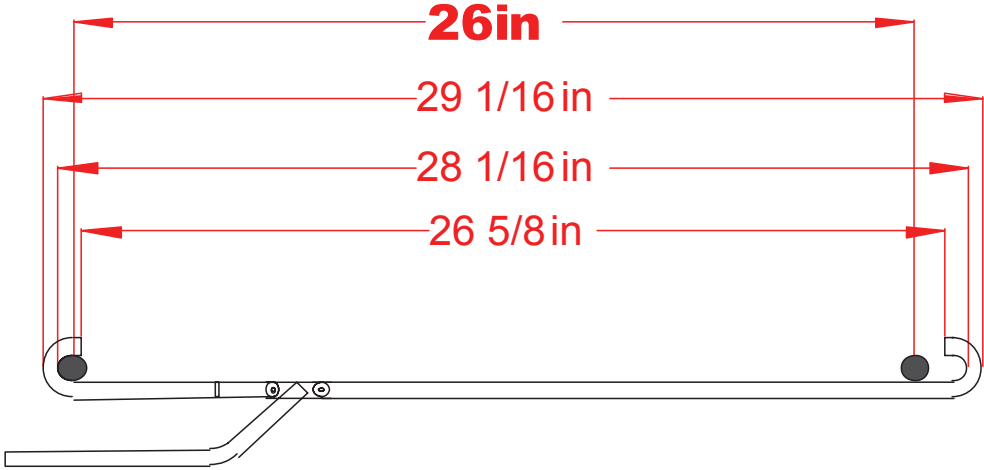


Description.....	Part
13-34 Carousel Loading Bar.....	2-48492

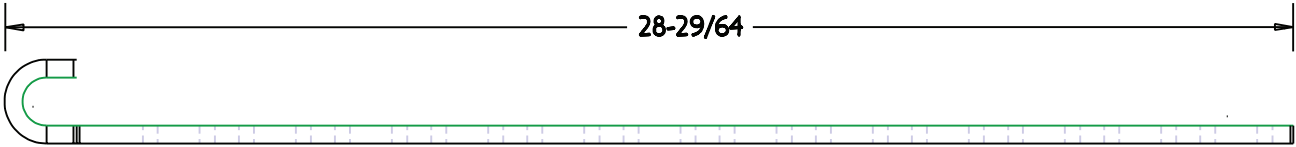


MACHINE COMPONENTS

Description.....Part
17-26 Carousel Loading Bar.....2-48488

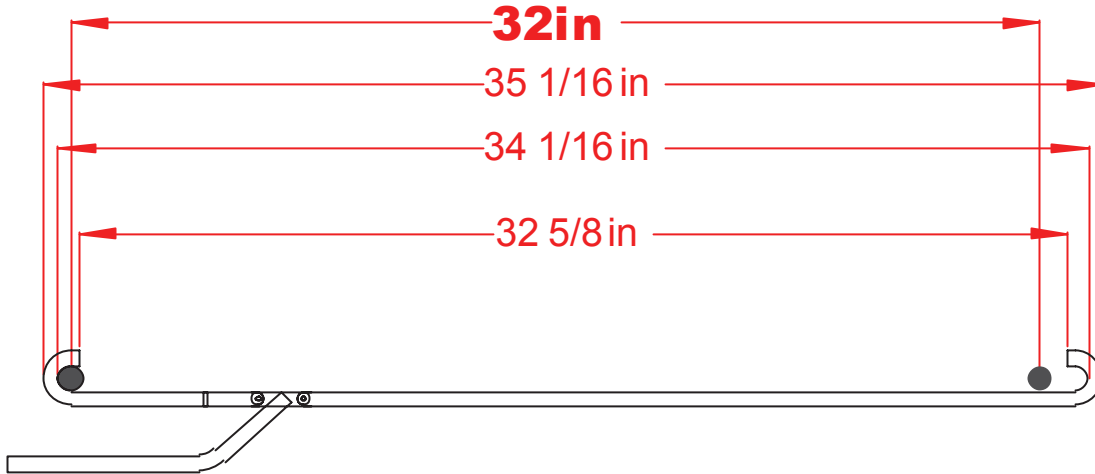


Description.....Part
Menard's OTT Loading Bar Extension Flat.....2-62723

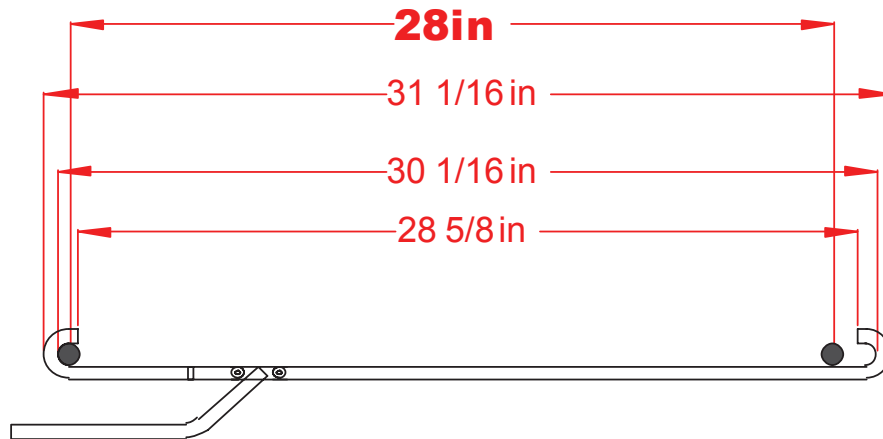


MACHINE COMPONENTS

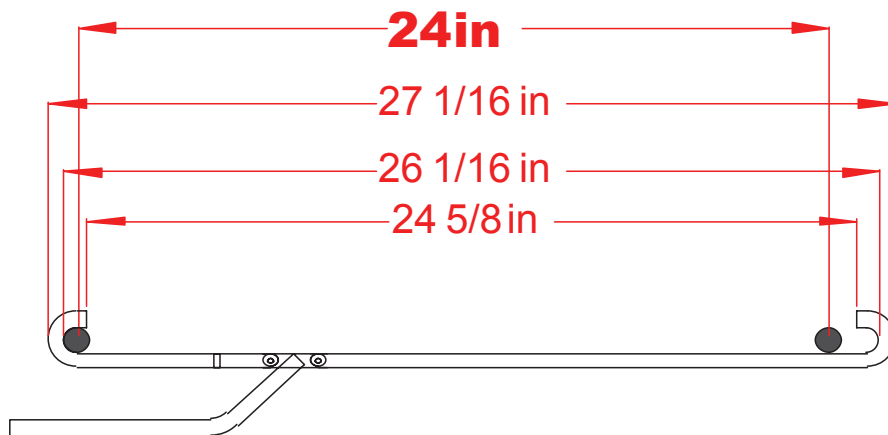
Description.....Part
 Menard's OTT Carousel Loading Bar.....2-48491



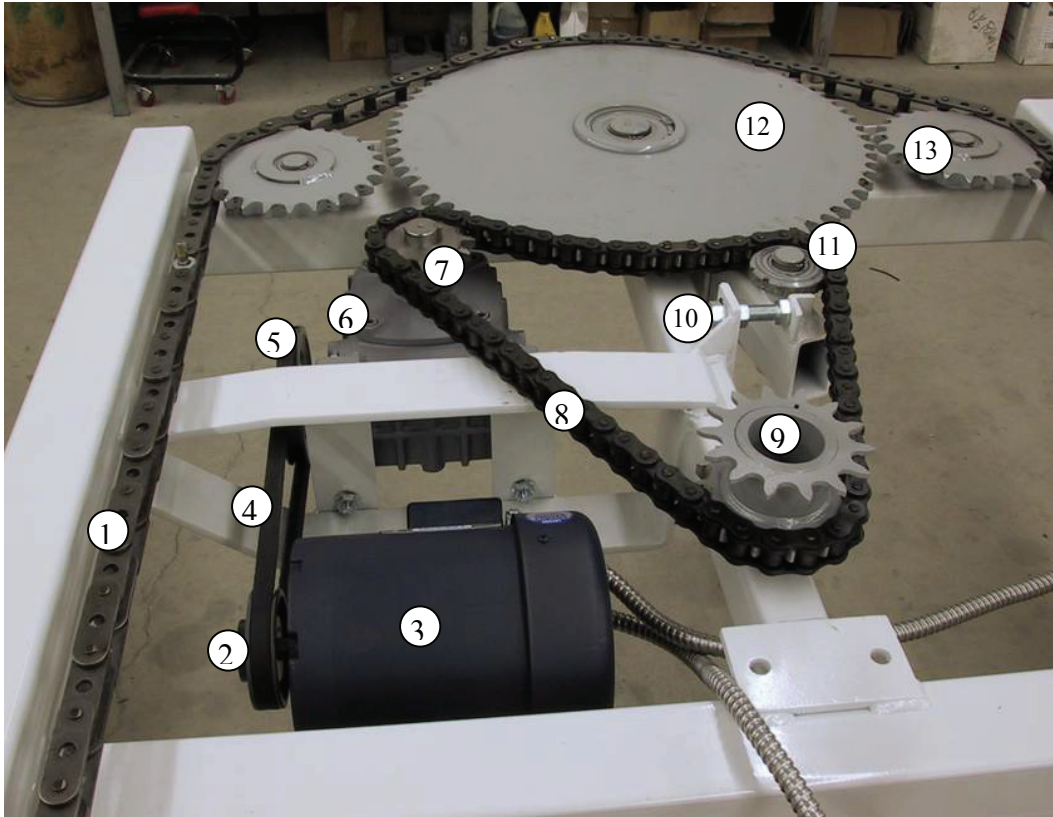
Description.....Part
 Menard's OTT Carousel Loading Bar, 40-14, 24-14, 16-14 Carousel Loading Bar2-48489



Description.....Part
 Menard's OTT Carousel Loading Bar.....2-48487

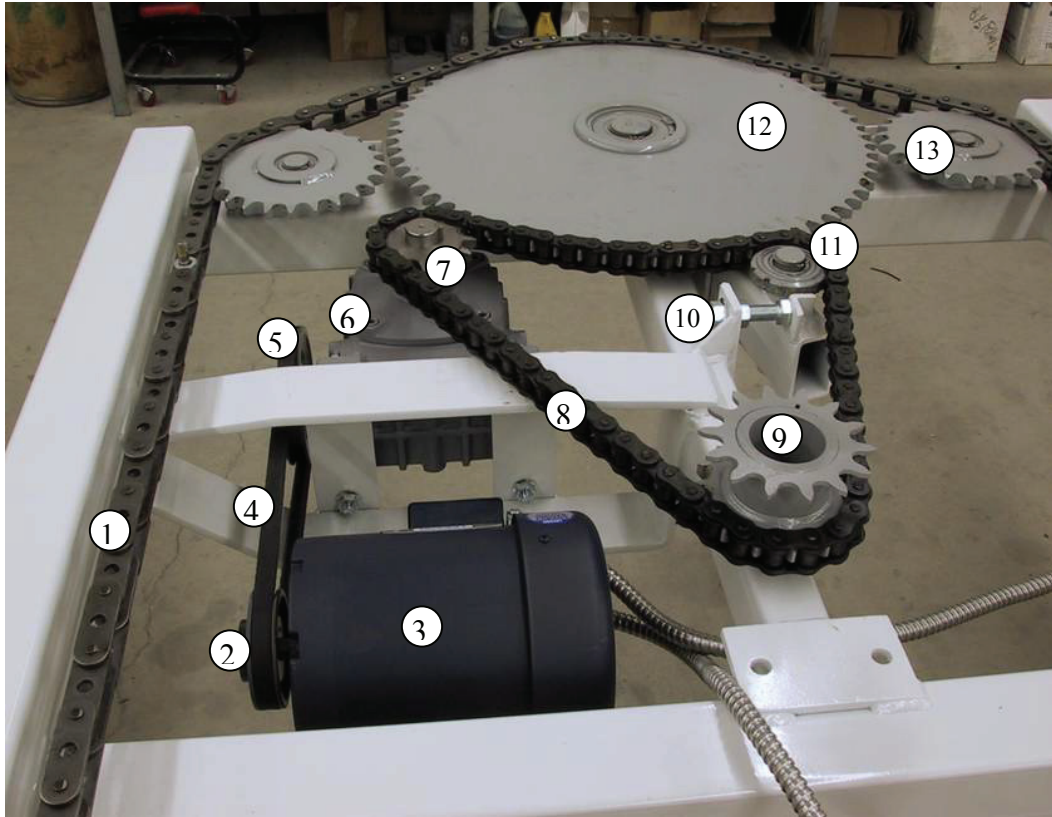


MACHINE COMPONENTS



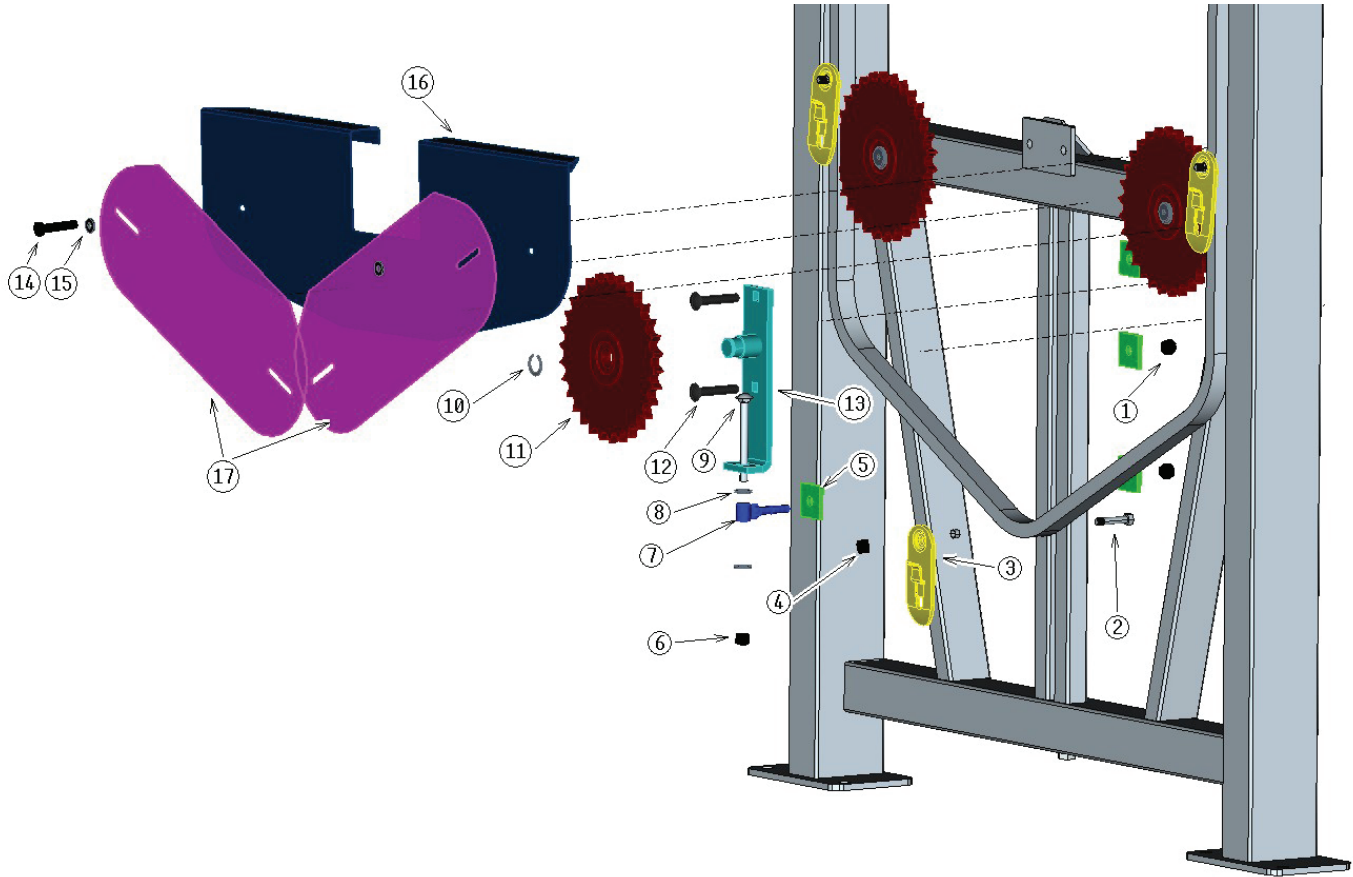
Item.....	Description.....	Part #
1	Main load chain w/ hooks for 13-34" call for other models	2-47259
2	Pulley bk34 x 5/8"	115-0062
.....	Key for pulley	109-0017
3	Motor 1hp 3ph 60hz 208/460v 56 rigid	407-0009
.....	Motor 1.5Hp 3ph 60hz 208/460v 56 rigid	407-0007
4	B38 belt	102-0054
.....	B40 belt (used with #100 gearbox)	102-0056
5	Pulley cast bk57 x 1-1/8 5/16ss 1/4" key (for # 80 gearbox)	115-0043
.....	Key for bk57 pulley	8-53386
6	Reducer #80r60:1	107-0013
.....	Reducer (gearbox) #100r60:1	107-0037
.....	Pulley bk60h, #100 gearbox"	115-0034
.....	Hub h x 1-3/8 5/16 keyway" (use with above).....	108-0025
7	Sprocket 80b12x1-3/8 (for #80 gearbox)	120-0136
.....	Carousel hub 1-1/2 #80 (for #100 gearbox)	120-0211
8	Chain #80 60" w connecting link.....	105-0049
9	Drive shaft coupler with bearing	120-0151
.....	Dirve shaft coupler chain	105-0048
10.....	5/8"X 3" drive chain tightener bolt.....	001-0228
.....	Flange nut 5/8 gr5 unc	004-0018
11	Chain idler #80 3"	111-0127
12.....	Sprocket 8072 w/6310 24"	120-0002
.....	Sprocket puller (for above)	2-61844

MACHINE COMPONENTS



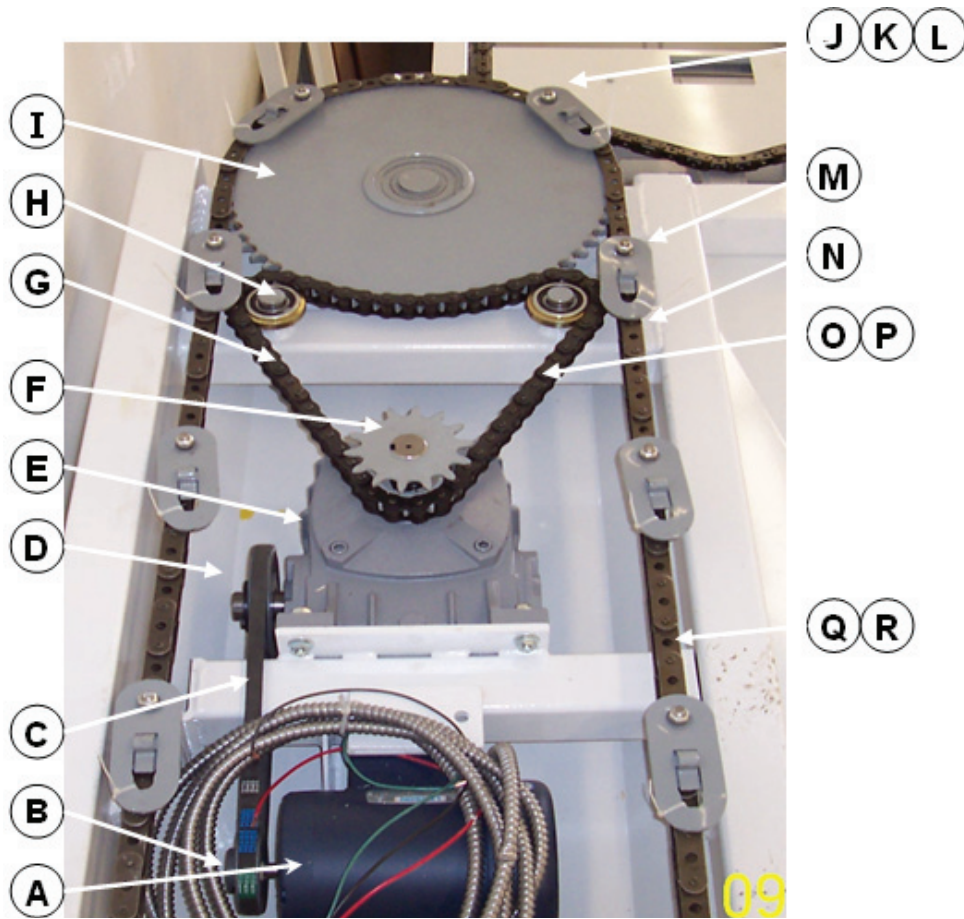
Item.....	Description.....	Part #
13.....	Sprocket 8024 w/6206 8".....	120-0049
14.....	Sprocket 8030 w/6206 10" (not shown, at bottom of carousel).....	120-0001
.....	Snap ring ext 2".....	116-0006
.....	Snap ring ext 1 1/8".....	116-0005
15.....	1 piece bottom chain cover (not shown).....	2-55578
16.....	Top inside chain cover (not shown).....	2-48539
17.....	#80 Gearbox input seal (not shown).....	dgp23
18.....	#80 Gearbox output seal (not shown).....	dgp24
19.....	#100 Gearbox inputseal (not shown).....	dgp24
20.....	#100 Gearbox output seal (not shown).....	dgp25

MACHINE COMPONENTS



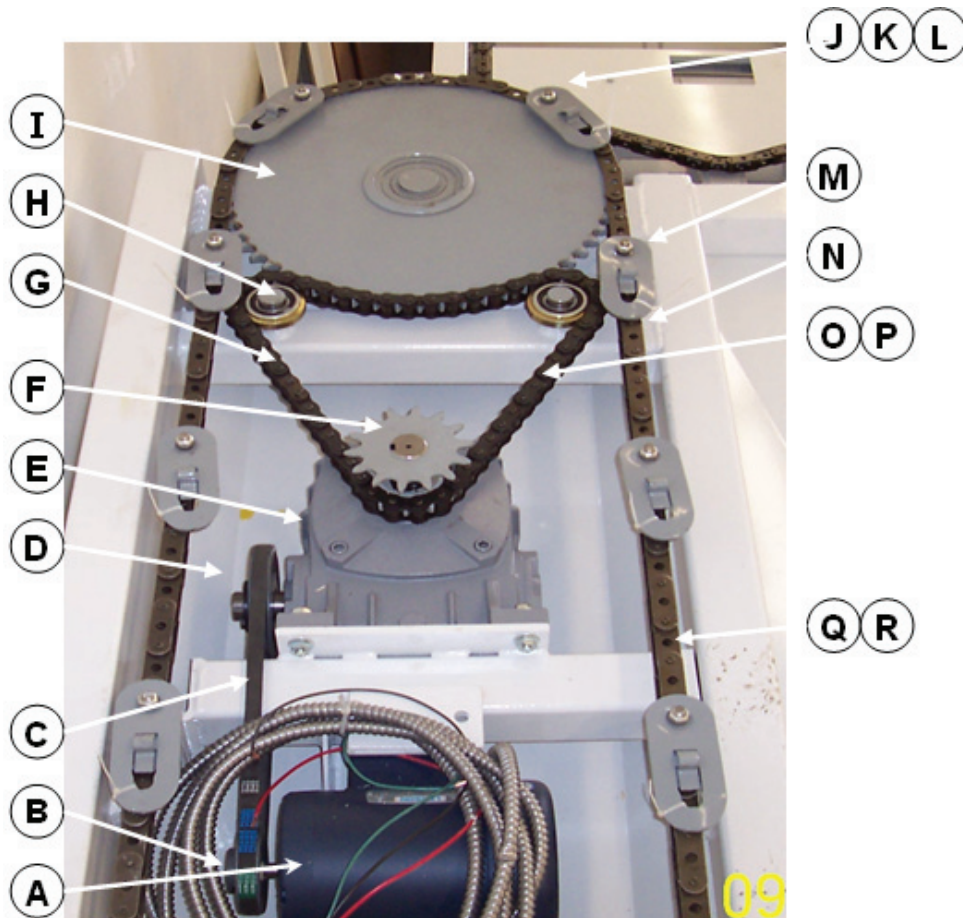
Item#	Description	Part
1	1/2 Nylon lock nut gr5 unc	004-0046
2	Carousel chain bolt	111-0094
3	3Pc hook bushing purch	2-57397
4	1/2 Nylon lock nut gr5 unc	004-0046
5	Slider square washer	2-45153
6	1/2 Nylon lock nut gr5 unc	004-0046
7	Chain tightner anchor	2-40450
8	Washer sae 1/2 (17/32x1-1/16x1/16)	003-0016
9	1/2 X 5 crg bolt f.T. Gr5 unc	001-0016
10	Ring snap ext 1-1/8 (cs100)	116-0005
11	Sprocket 10 8030 w/6206 bearing	120-0001
12	1/2 X 3 crg bolt f.T. Gr5 unc	001-0311
13	Bottom_tightner_slider_std	2-40420
14	Bolt 3/8 x 1	001-0042
15	Washer sae 3/8 (.406X.813X.080)	003-0008
16	Bottom_chain_cover_39_2 piece top	2-55520
17	Bottom_chain_cover_2pc_39	2-55522

MACHINE COMPONENTS



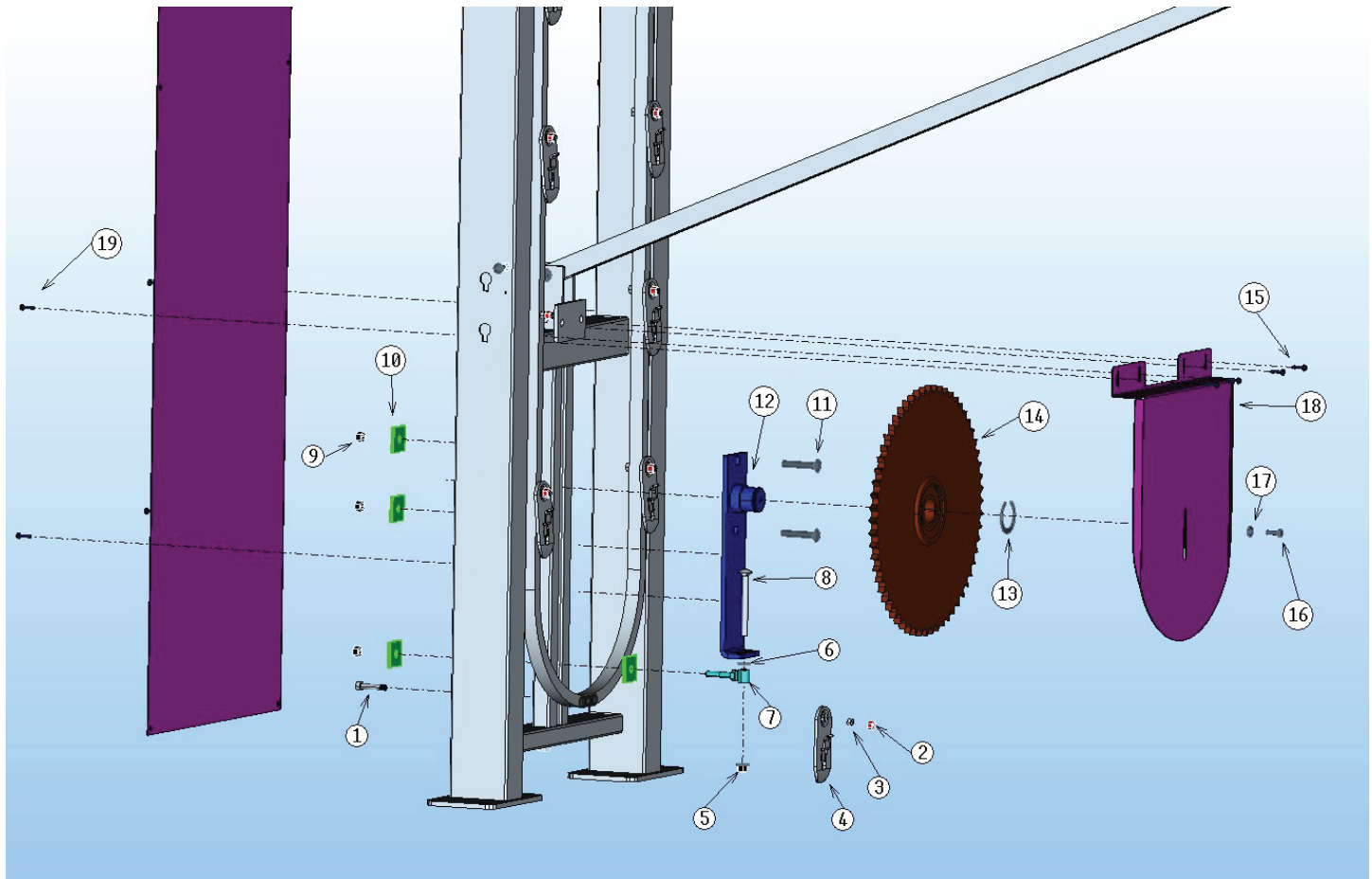
Item#	Description	Part
A	Motor 1.5Hp 3ph 60hz 208/460v 56 rigid	407-0007
	Motor 1.0 Hp 3ph 60hz 208/460v 56 rigid	407-0009
	Motor 1.0 Hp 1ph 60hz 110/220V	407-0005
B	Pulley bk34 x 5/8	115-0062
C	V belt b40	102-0056
D	Pulley cast bk57 x 1-1/8 5/16ss 1/4key (#80 gearbox)	115-0043
E	Reducer (gearbox) #80r60:1 m/b 1.125/1.375	107-0013
	Reducer (gearbox) #100r60:1	107-0037
	Base for #100 gearbox	107-0040
	#100 gearbox uses below pulley and hub:	
	1- Pulley bk60h, #100 gearbox	115-0034
	2- Hub h x 1-3/8 5/16 keyway" (use with above)	108-0025
F	Sprocket 80b12/14 x 1-3/8 hub (#80 gearbox)	120-0157
	Slim carousel hub 112 (#100 gearbox)	2-44483
G	Drive chain 46 links/half link (see page 28)	2-67747
H	Chain idler #80 3"	111-0127
I	Sprocket 24" 8072 w/ 6310 bearing	120-0002
	Sprocket 8060 w/6310 20"	120-0055
	Sprocket 20" 8060 dbl6313 brng w/sleeve (40-14)	2-51974
J	7/16" Locknut	004-0088
K	7/6" Flat washer	003-0017

MACHINE COMPONENTS



L.....	Carousel Chain Bolt	2-47290
M.....	Regular oval 1 piece hook (w. Bushing 007-0062).....	111-0094
N.....	13-22 Chain complete	2-67625
O.....	Link connecting #80 (see page 28).....	105-0038
P.....	.....
Q.....	Link connecting c2080h (see page 28)	105-0033
R.....	#80H connector link (see page 28)	105-0058
S.....	#80H roller link (see page 28)	105-0059

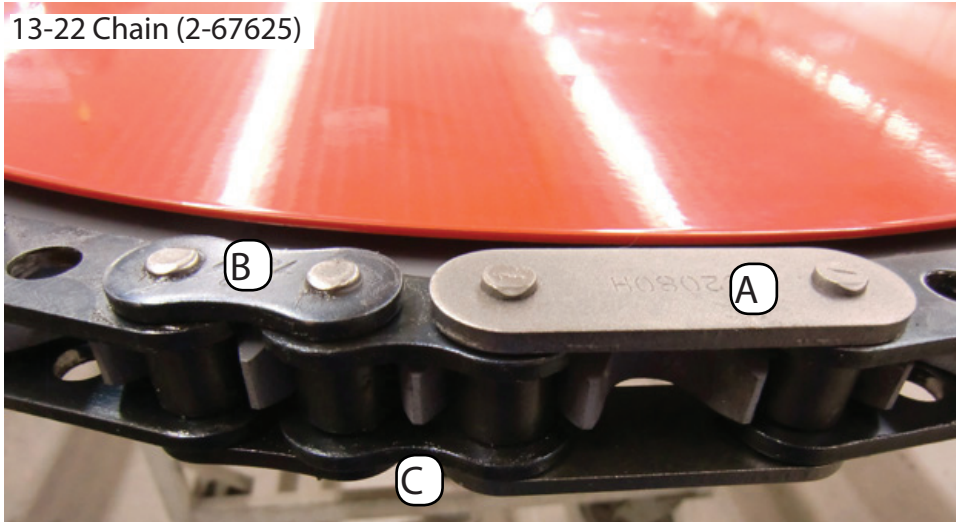
MACHINE COMPONENTS



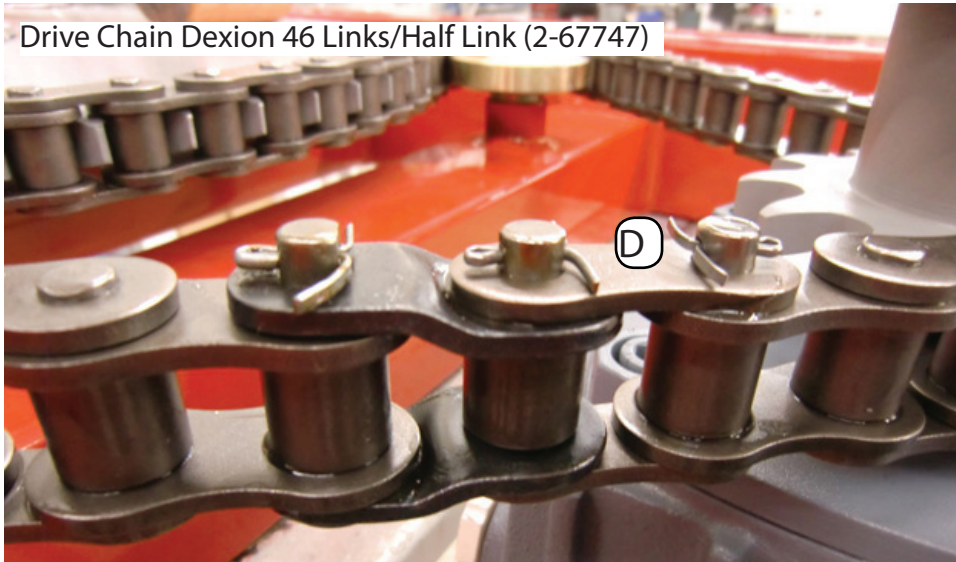
Item#	Description	Part
1	Carousel chain bolt	2-47290
2	Nut lock 7/16 steel I9 unc	004-0088
3	Bushing crsl hook	007-0062
4	3Pc hook bushing purch	2-57397
5	1/2 Nylon lock nut gr5 unc	004-0046
6	Wsh flat 1/2	003-0016
7	Chain tightner anchor	2-40450
8	1/2 X 5 crg bolt f.T. Gr5 unc	001-0076
9	1/2 Nylon lock nut gr5 unc	004-0046
10	Slider square washer	2-45153
11	1/2 X 3 bolt crg gr5 unc	001-0072
12	Botto_tightner_slider_lvtttrd	2-45150
13	Ring snap ext 2 1400-200 r7048 (cs200)	116-0006
14	Sprocket 20 8060 w/6310 bearing	120-0055
15	Screw d&t hwh 1/4 x 1	002-0019
16	3/8 X 1 hex bolt full thread gr5 unc	001-0114
17	Wshr flat 3/8 x 7/8 x .095	003-0007
18	B20 bottom sprocket guard	2-50628
19	Screw d&t hwh 1/4 x 1	002-0019
20	Slim_cover_b2010 non-control	2-48063

MACHINE COMPONENTS

13-22 Chain (2-67625)



Drive Chain Dexion 46 Links/Half Link (2-67747)



Item#.....	Description.....	Part
A.....	Link Connecting C2080H	105-0033
B.....	#80H Connector link	105-0058
C.....	#80H Roller link.....	105-0059
D.....	Connecting link #80.....	105-0038

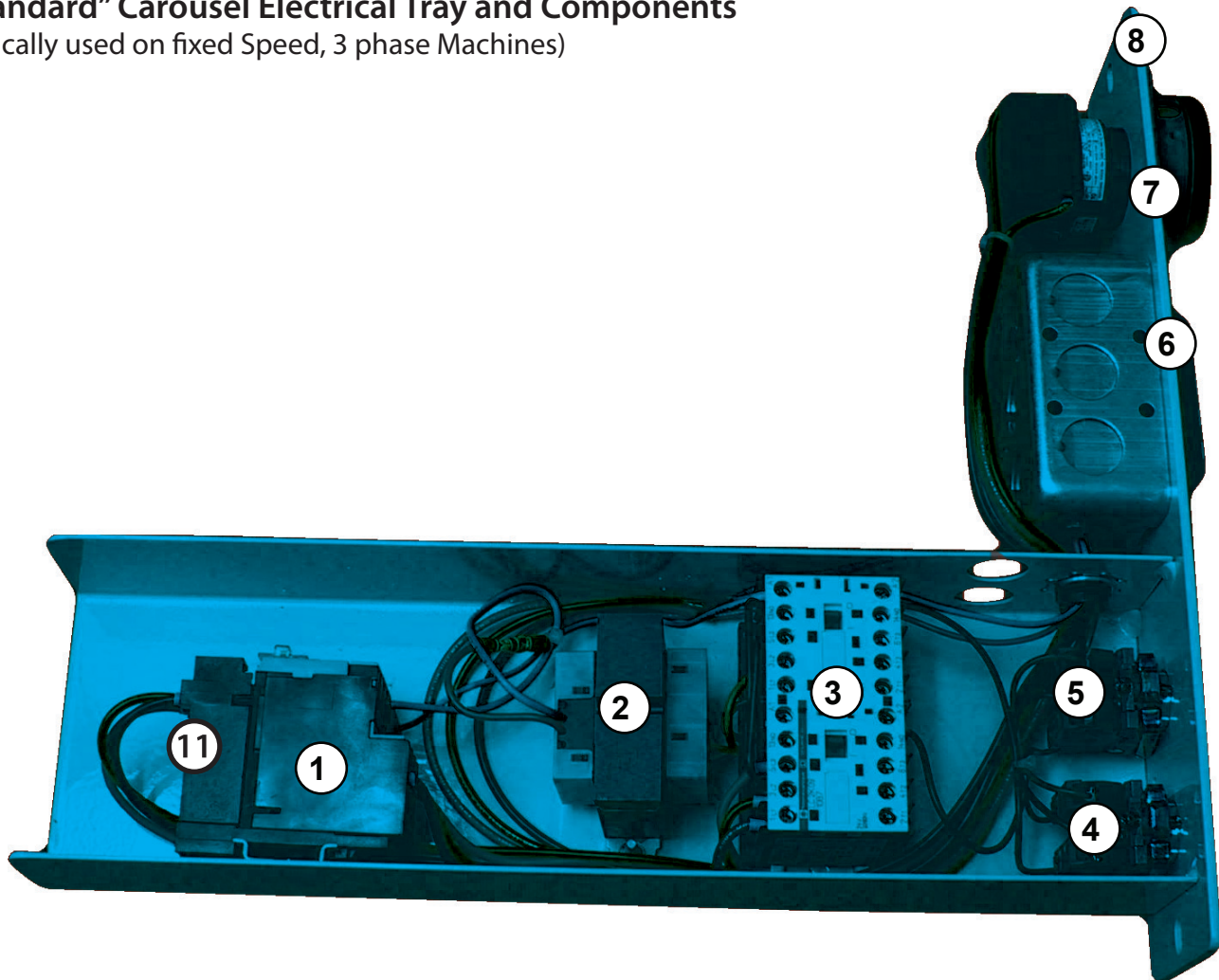
MACHINE COMPONENTS



Item #	Description	Part #
A.....	Washer .469 x .813 x .125	003-0014
B.....	Carousel Chain Bolt	2-47290
C.....	7/16" Steel locknut (torque to 22 Lb ft/29.8 Nm).....	004-0088
D.....	Regular oval 1 piece hook (w. bushing 007-0062 + steel locknut 004-0088)	111-0094
E.....	Standard carousel hook w/ bolt kit (includes items A, B, C, D)	111-0285
F.....	Carpet velcro strap w. d-ring 1 x 69" each (not shown)	FV169
G.....	Carpet velcro strap w/ d-ring 1 x 69" carton of 25(not shown)	FV169C
H.....	Bolt anchor wedge hilti 5/8 x 4-3/4 (not shown).....	001-0369

MACHINE COMPONENTS

"Standard" Carousel Electrical Tray and Components
 (typically used on fixed Speed, 3 phase Machines)



Item	Description	Part #
1.....	Thermal Overload, 8-11.5A, without base.....	409-0032
2.....	208/24 Volt Transformer.....	411-0002
.....	380/24 Volt Transformer.....	411-0003
.....	480/24 Volt Transformer.....	411-0007
3.....	Forward & Reversing Contactor (2HP/208V).....	409-0039
.....	Forward & Reversing Contactor (3HP/208V).....	409-0077
4.....	Down push button.....	410-0053
5.....	Up push button.....	410-0053
6.....	IEI Bubble style key pad (used since 07/06).....	410-0104
.....	Visonic CL8 (used until July 2000).....	410-0024
.....	EI, Stainless Plate, (July 2000-July 2006).....	410-0014
7.....	Main power shut off switch.....	410-0044
8.....	Electrical Tray (complete & wired).....	2-45431
9.....	13-34 Electrical tray.....	2-47286
10.....	Switch on/off master knob & plate.....	410-0068
11.....	Thermal overload base.....	409-0045

MAINTENANCE

Troubleshooting

Symptoms/Problems	Solution
Carousel will not run	<ul style="list-style-type: none"> A. Re-enter the security code. B. Check if the master switch is on. C. Check and reset circuit breaker. D. Make sure machine load is evenly balanced.
Motor lugs down or breaker trips	<ul style="list-style-type: none"> A. Make sure machine load is evenly balanced. B. Check and reset circuit breaker.
Carousel is noisy	<ul style="list-style-type: none"> A. Tighten set screws on pulley and/or tighten belt (replace if necessary). B. Check for correct chain alignment. C. Oil the carousel chains.
Carousel is dead, no lights on the keypad.	<ul style="list-style-type: none"> A. Turn power switch to the on position B. Check breaker in the main panel. (trip off and on) C. Turn power switch off and wait 30 seconds. Check for 208 volts between all 3 phases D. Check for 24 volts at the key pad (6-7 on Visonic) or (+ - on the IEI) E. Check voltage on the primary side of the transformer. (208 volts ac) F. Check voltage on the secondary side of transformer. (24 volts ac) G. Check wire connections from transformer to the key pad. H. Check key pad voltage setting (no jumper on JP3 Visonic) (no jumper on J2 on the IEI keypad)
Carousel has lights on the key pad but is dead	<ul style="list-style-type: none"> A. Ensure the yellow light blinks for each key stroke. (IEI keypad only) B. Listen for a click when entering the code. C. Watch for the green light on the IEI keypad. D. Reprogram the key pad (IEI only) E. Move the wire on (NO terminal → NC on the IEI key pad) (on Visonic move the wire on terminal #11 → 12). This bypasses the keypad and unit will be live all the time. F. Check wire connections from the key pad to the push buttons. G. Check wire connections from the push buttons to the contactors.
Carousel buzzes or runs as soon as the code is entered	<ul style="list-style-type: none"> A. Check to ensure the up and down push buttons are not stuck on. B. Check for correct wiring. (after upgrading old style contactor)
Carousel buzzes or runs as soon as the power is turned on.	<ul style="list-style-type: none"> A. Check for a stuck contactor. B. Check for correct wiring. (after upgrading old style contactor).
Carousel will not shut off after 30 seconds of usage.	<ul style="list-style-type: none"> A. Reprogram keypad. B. Replace keypad.

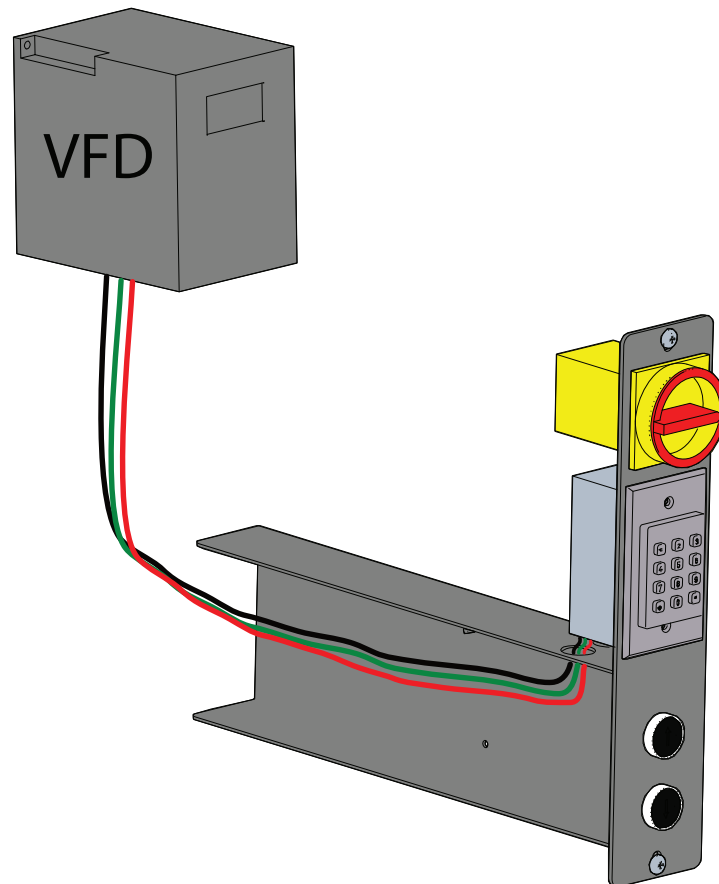
MAINTENANCE

Symptoms/Problems	Solution
Carousel strains and comes to a stop.	<ul style="list-style-type: none"> A. Check for an obstructions in the machine B. Check for an off balanced load. (max difference front to rear is 1500 lbs) C. Check to ensure that the key is in place on the gear box output sprocket. (both sides)
Carousel will only rotate in one direction.	<ul style="list-style-type: none"> A. Check to ensure that the load is distributed evenly. B. Check that the up and down buttons each energize a contactor. C. Check for a faulty contactor. D. Check for correct wiring. E. Ensure all wire connections at the contactors.
Carousel will rotate but is noisy and squeaks.	<ul style="list-style-type: none"> A. Oil the load chain. B. Check chain tension. C. Lubricate the hook bolts. D. Tighten the setscrews on motor and gear box pulleys.
Carousel will not rotate in either direction but makes a buzzing noise.	<ul style="list-style-type: none"> A. Check if breaker is turned off (trip off and then back on) B. Check if the load is balanced properly
Correcting a machine jam up because of an off balanced load.	<ul style="list-style-type: none"> A. Jog carousel up or down with short jabs on the up or down buttons. If the chains move you may be able to walk the unit out of it's jammed position. (If the carousel won't move do not press the buttons for an extended length of time this could ruin the motors) B. Unload a roll(s) from the heavy side of carousel. C. Load a roll (s) on to the light side of the carousel. D. Un-jam the gear boxes by rotating the pulley on the gear box. (locked pulley needs to be rotated by hand, either direction, about 1/8 turn or until pressure is released).
Speed Control Potentiometer doesn't work Correctly. Unit runs too fast	<ul style="list-style-type: none"> A. Check to make sure potentiometer wires are connected to drive correctly, see elec. Diagram

MAINTENANCE

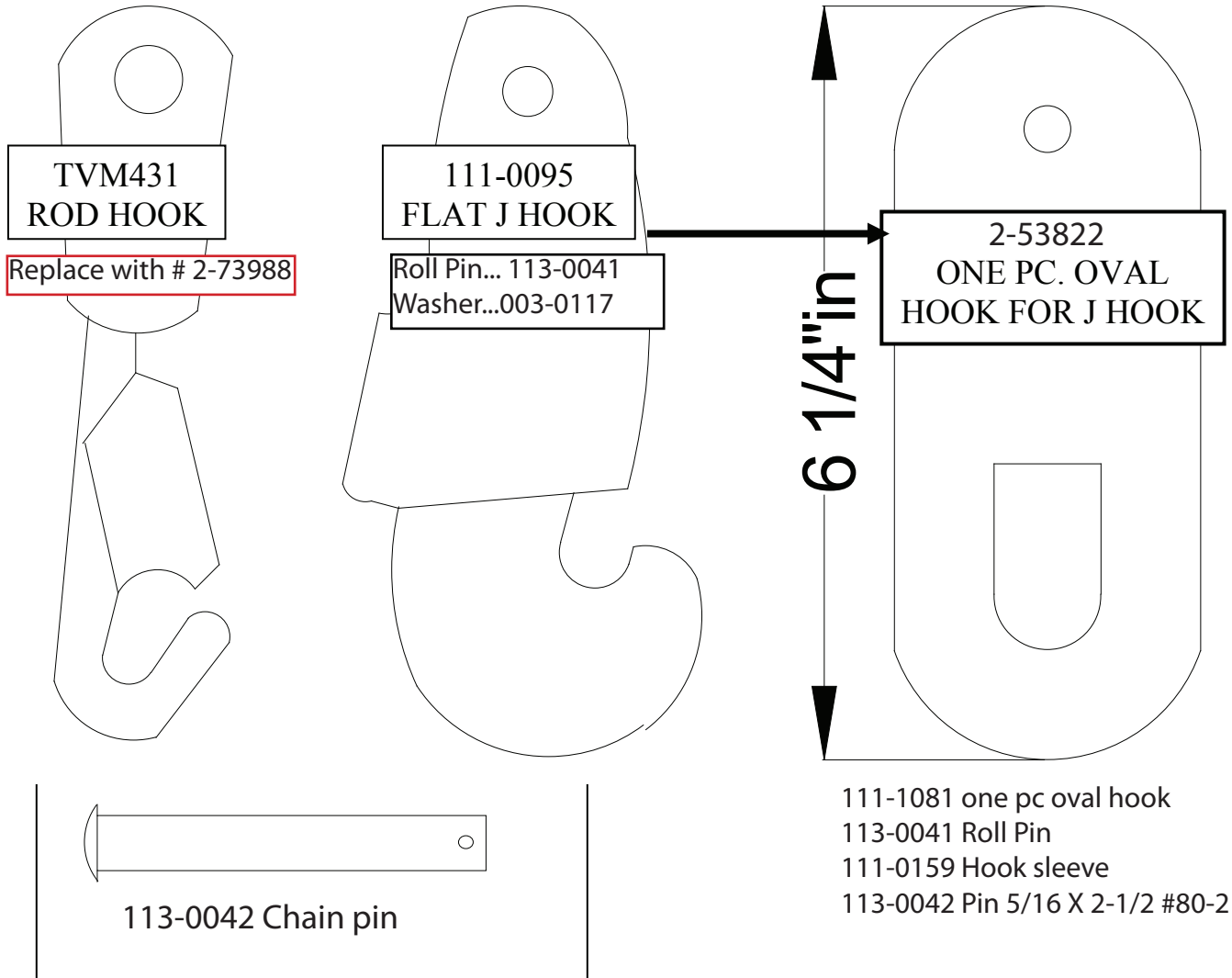
1 Phase to 3 Phase Conversion

1. Disconnect power from the carousel.
2. Ensure single phase power is connected to the black and red wires in the machine. (cap off the blue wire)
3. Mount VFD on the inside of the carousel on the side panel about 6" above and to the left of the electrical tray.
4. Remove screws from the front control panel and slide out as far as possible.
5. Drill (3) 7/8" holes into the back of the electrical control box.
6. Route 3 flexes from VFD to electrical box. (control, motor and power wires)
7. Disconnect the black, red and blue wires from T1, T2 and T3 on the contactors. (motor wires)
8. Butt splice the motor wires to the motor wires from the VFD.
9. Remove overload protection device and disconnect wires.
10. Butt splice the power wires to the power wires from the VFD (black and red only) cap off blue power wire.
11. Remove all wires from L1, L2, L3, T1, T2, and T3 from the contactors. Leave all other wires connected.
12. Connect control wires from the VFD to the contactors. See diagram. +24 volts to L1 on both contactors, L11 to T1 on left contactor and L12 to T1 on the right contactor. Note: swap the L11 and L12 to change directions.
13. Check all the connections and slide the electrical tray back into the machine.
14. Power up unit and test run machine ensure it run in the correct direction.

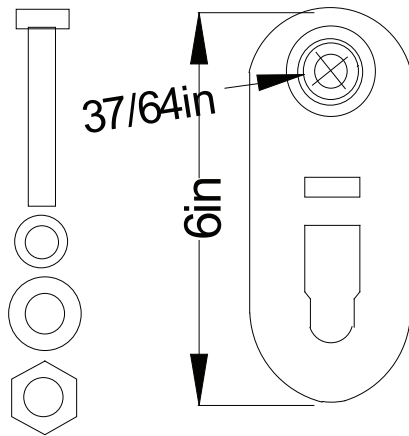
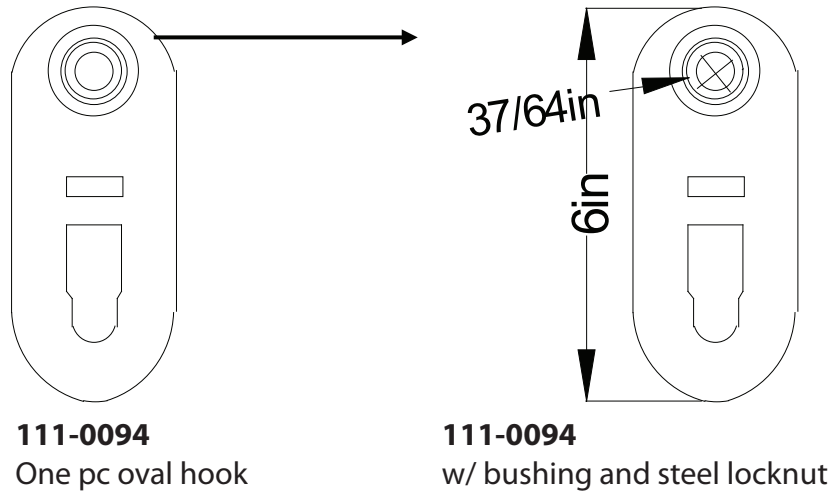


History of hooks used on Carpet and Vinyl Carousels

Hooks used on the 5/16" chain pins. Item #111-0095 left and right are replaced with 111-1081 one pc oval hook. Then in May 1998 the hooks were changed from the flat J hooks to the one piece oval hook with the 7/16" bolt in the chain



In April 1998 the flat J hooks and the chain were replaced with the one piece oval hook and a 7/16" bolt in the chain. Then April 10, 2007 these hooks were upgrade with a bushing however the bolt remained the same. These upgraded hooks are fully exchangeable with the previous ones.



111-0285
One pc oval hook and bolt kit
1-bolt
1-bushing
1-washer
1- lock nut

Carpet Carousel Preventative Maintenance & Inspection Checklist

Company	City	Province	Date
Store No.	Serial No.	Model/Type	Current Hour Meter Reading
Service Company:		Store Signoff:(Print)	
Service Technician (Print):		Store Title:	
Service Tech Signature:		Store Signature:	

Check: **INSPECTION** (complete inspection line items only) or **PM** PREVENTATIVE MAINTENANCE (complete all inspection & PM line items)

Preventative Maintenance is Recommended Every 100 Hours or 12 Months. Inspect both sides of the machine. The inspection of all hooks, bolts, pins, mounting hardware, chains and the overall condition of these components are critical to ensure machine safety, and integrity of the preventative maintenance process. Initialling each line as indicated below confirms these items have been thoroughly inspected for defects.

	✓ Indicates item is inspected and in good condition - ✗ Indicates item requires additional service	Service	Initials
INSPECTION	Verify all hooks swing freely.		
	Inspect all hooks, bolts, and pins (connecting hardware) for signs of wear or damage (per spec bulletin) Fig 1.		
	Verify all hooks, bolts, and nuts for tightness.(visual) Fig. 1		
	Tug roll pins with pliers to ensure they are in place and not broken. (J hook style) (replace if damaged)		
	Verify all safety latches and hardware on hooks are securely in place and latches operate correctly. Fig. 1.		
	Inspect load chain for snapping or squeaking noise during operation. If noisy lube or tighten as needed. Inspect load chain for wear and correct tension.		
	Visually inspect master link cotter pins for wear. Page 5		
	Visually inspect cotter pin on offset link and ensure 'D' shaped pin vs. 'O' shaped pin.(if 'O' shaped see bulletin) Offset link is next to the master link and applicable only on carpet carousel model # 25-14 Page 5.		
	Inspect drive chains for wear, proper alignment, tension and does not interfere with guards or covers. Fig 4		
	Visually inspect load chain sprockets for wear, mis-alignment or tilt (without removing covers). Fig. 4		
	Inspect for any plastic or debris wrapped around chains or sprockets. (Notify Manager) Plastic must be removed from rolls of material. Fig. 4		
	Verify all covers are in place and in good condition.		
	Check condition of loading bars and ensure they are chained in place. Fig. 6		
	Ensure loading bar warning stickers are in place. Fig. 7 Vidir Part# 110-0034.		
	Verify that all material rolls are neatly, and properly secured with 3 velcro straps each. If not, remind store manager.		
Instruct flooring associates and flooring manager how to load rolls of carpet correctly. Fig. 8			
Inspect pulley and sprocket set screws to ensure they have lock-tight applied to the threads and are tight.			
Verify drive sprocket alignment and proper tension of drive chain.			
PM	✓ Indicates item is inspected and in good condition - ✗ Indicates item requires additional service	Service	Initials
	Spray lithium grease on all hooks and bolts (between the hook and the chain). Fig. 1.		
	Ensure set screw is tight on motor and gearbox pulleys. If loose, check belt alignment. Fig. 4		
	Ensure set screw is tight on drive sprocket and key is in place. If loose, check sprocket alignment. Fig. 4		
	Inspect to ensure motor and gearbox mounting bolts are tight. First time pm only. Fig. 4		
Inspect both gearbox units for oil leaks. Add oil and schedule for seal or gearbox replacement. Fig. 4			

Required Components

Qty	Description	Part #	Qty	Description	Part #	Application .. Description
4	Oval Hook	111-0094	1	Carousel chain bolt tool	2-77038	Gear box .....80/90 W oil
4	7/16" hook bolt	001-0212	10	Washers 1/2"	003-0062	Chain .....30W oil
4	7/16" nuts	004-0088	1	Switch Stem	410-0052	Spray can of lithium grease
			1	Carousel J-hook replacement 5/16	111-0095	

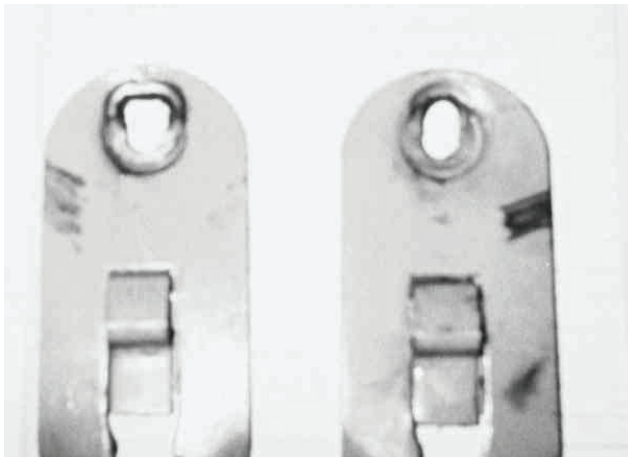
Conclusion: This unit has been inspected and serviced for safe operation and is operating as intended by the manufacturer.

Comments and Parts Used (If any): _____

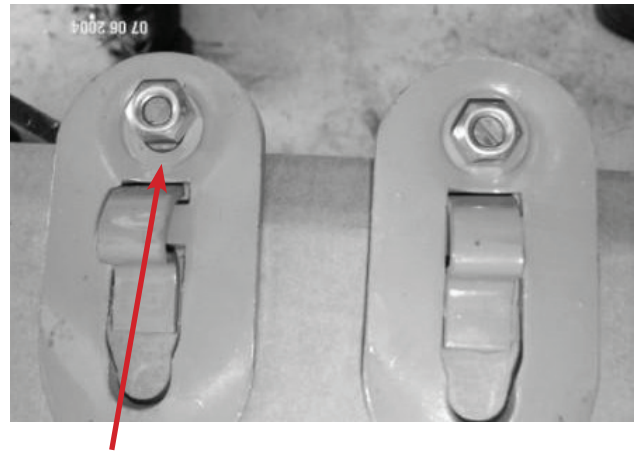
This document is to clarify or better understand the signs of wear relating to the hooks and hardware on Vidir Carpet and wire carousels. It is critical that the following inspection method be utilized.

- 1) Each mounting bolt and hook must be visually inspected for signs of wear. If there is grease around the nut and bolt this must be wiped off the surface. Check for wear indicator marks prior to wiping the grease. Note that the racks that are loaded with heavy gauge wire spools generally have the most significant wear.
- 2) Typical signs of wear are – metal shavings or dust, wear marks in the paint indicating the nut has moved from the original location, elongation of the hook, offsetting of the nut/bolt in the hook mounting hole. Any bolt offset more than a 1/16" is a problem.
- 3) Any suspect bolts should be further inspected by securing the bay, and removing the nut to confirm bolt or hook wear. Those found to be worn should be changed. If you do not have replacement hooks and bolts the rack should be unloaded and tagged for non-use until replacement bolts and hooks are mounted.
- 4) The nuts used are self-locking nuts. Once removed new nuts should always be used. As a fallback use "Blue Loctite" on the old nut, but only temporarily until a new one is installed. Always grease the bolt and hook when assembled, replaced, when inspected, and during PM's.

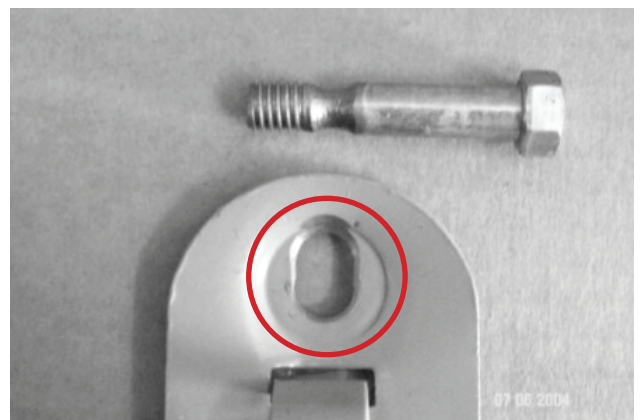
Pictured below is an extreme case for inspection clarity, but less extreme cases are definite safety hazards and any suspect wear needs to be investigated thoroughly. If nominal wear is suspect, remove the product carrier and hook for a detailed inspection. Severely worn parts need to be taken from service immediately and replacement parts installed. This must be done to ensure a safe environment for The Home Depot customers and employees.



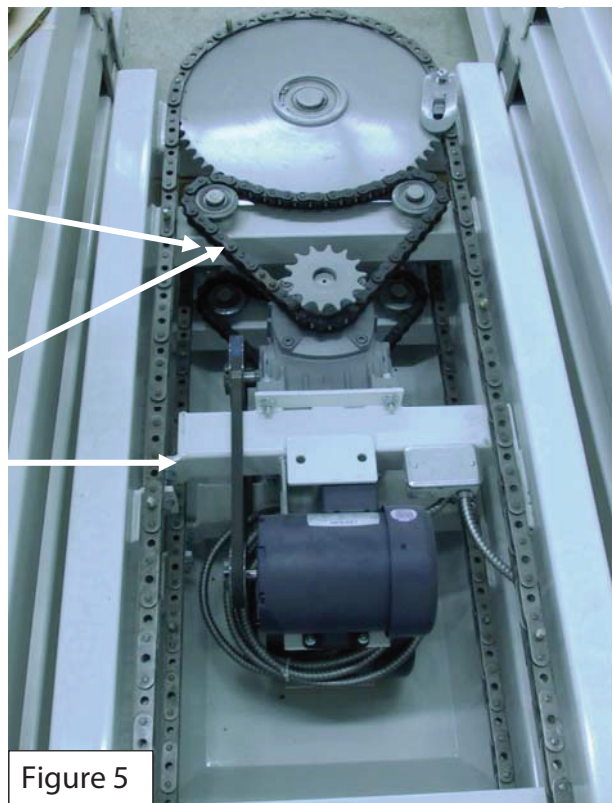
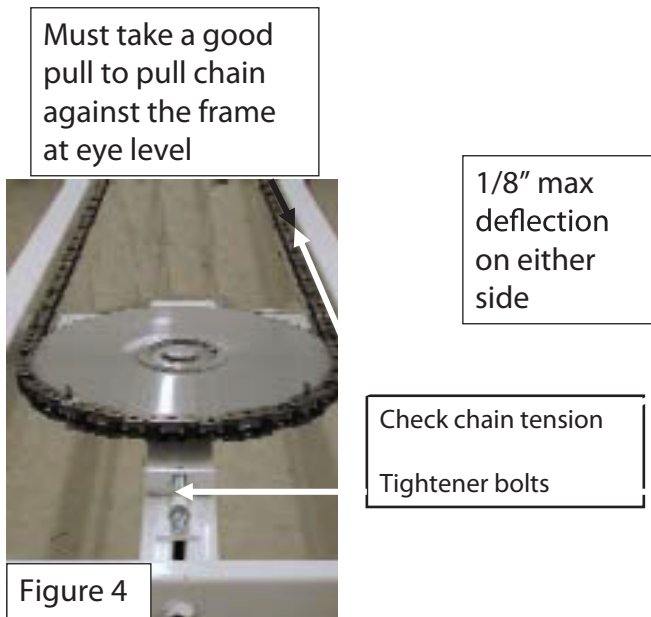
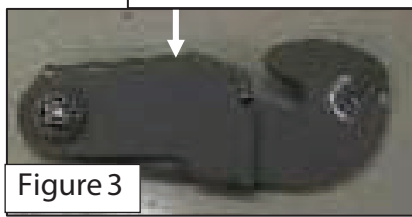
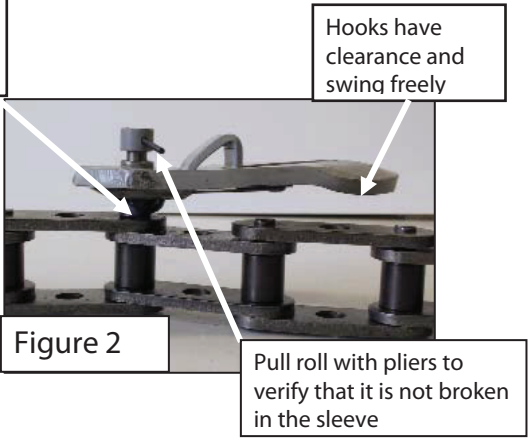
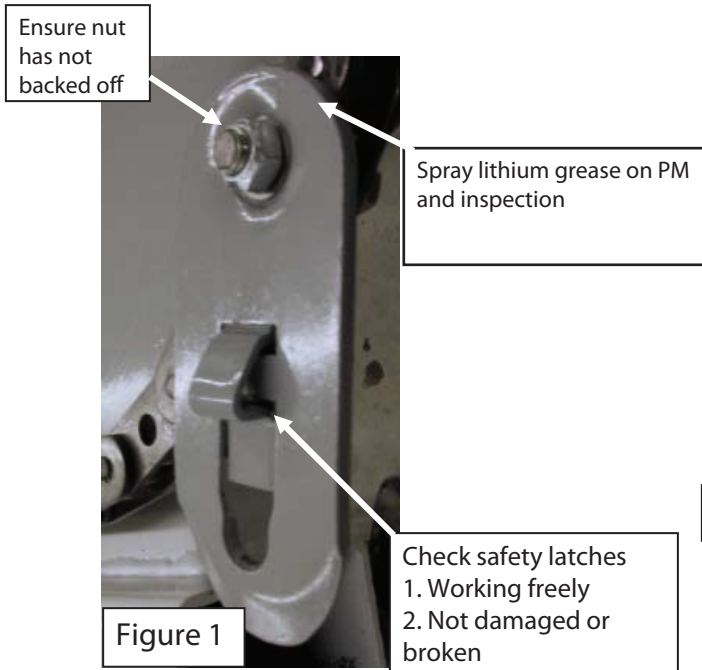
Worn Hooks: The left hook displays the Mickey Mouse wear pattern related to running the carousel in the both directions. This condition is easily spotted during any type of inspection. Also note the wear pattern in the paint from the nut movement.



Notice space under the nut this hook is seriously worn and must be replaced immediately.



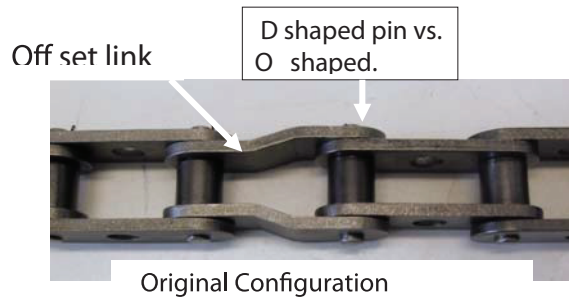
Worn Hook and Hardware: Note the bolt hole elongation in this hook. This condition will also cause wear on the bolt itself as pictured above and cause failure.



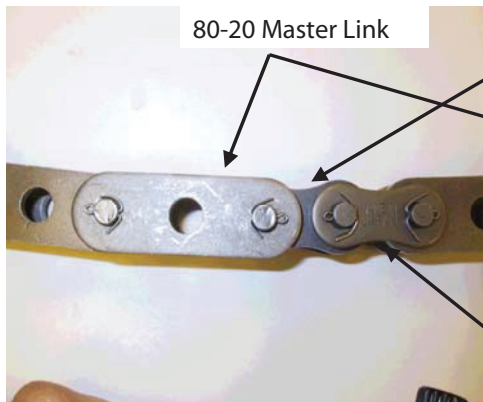
Replacing Offset Link on 25-14 Carousels

If the pin on offset link is O shaped it must be replaced.

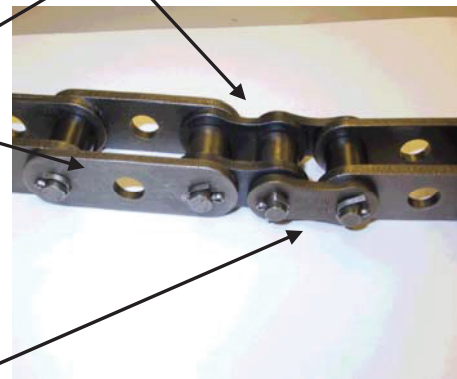
The Offset Links should be replaced with a # 80 Heavy Duty Roller Link and a # 80 Heavy Duty Master Link. These parts are available through Vidir Machine Inc. by calling our Service Department at 1-800-210-0141.



80 Heavy Duty Roller Link



Top View



Side View

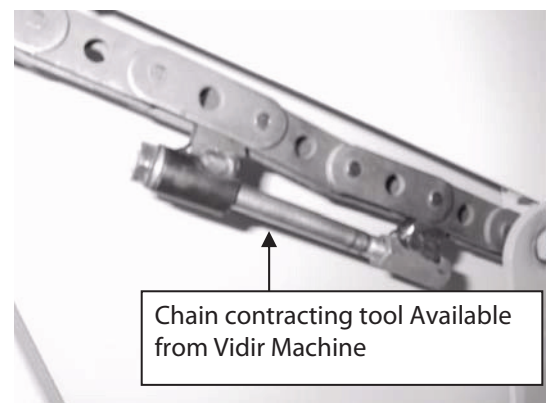


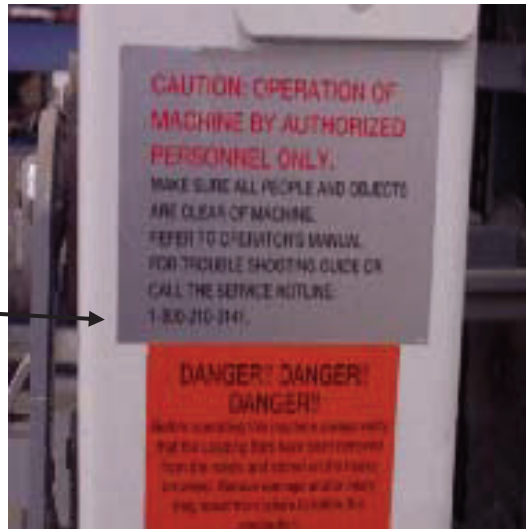


Figure 6

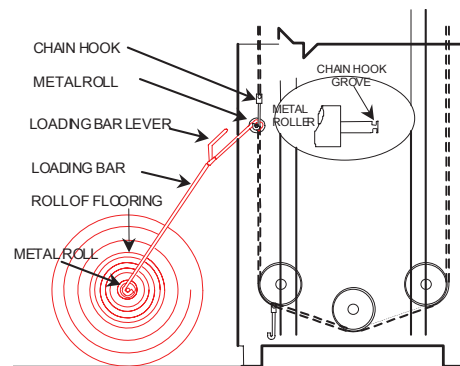
Inspect loading bars

1. Hook ends not deformed
2. Not bent
3. Chains in place

Remove Loading Bar Sticker



NOTE - Cutting bar content available on CDN vinyl carousel pm 1000-02-010505.doc



Be sure to remove both ends of the roller from the hooks before attempting to insert the roller into the roll of Carpet or Vinyl. If only one side of the roller is removed from the hooks serious damage can be caused to the hook and pin. ALWAYS REMOVE POLE FROM CARPET CAROUSEL BEFORE ATTEMPTING TO INSERT IT INTO THE ROLL OF CARPET

Figure 8

Vinyl Carousel Preventative Maintenance & Inspection Checklist

Company	City	Province	Date
Store No.	Serial No.	Model/Type	Current Hour Meter Reading
Service Company:		Store Signoff:(Print)	
Service Technician (Print):		Store Title:	
Service Tech Signature:		Store Signature:	

Check: INSPECTION (complete inspection line items only) or PM PREVENTATIVE MAINTENANCE (complete all inspection & PM line items)

Preventative Maintenance is Recommended Every 100 Hours or 12 Months. Inspect both sides of the machine. The inspection of all hooks, bolts, pins, mounting hardware, chains and the overall condition of these components are critical to ensure machine safety, and integrity of the preventative maintenance process. Initialling each line as indicated below confirms these items have been thoroughly inspected for defects.

✓ Indicates item is inspected and in good condition - ✗ Indicates item requires additional service

Service Initials

INSPECTION	Verify all hooks swing freely.		
	Inspect all hooks, bolts, and pins (connecting hardware) for signs of wear or damage (per spec bulletin) Fig 1, 2		
	Verify all hooks, bolts, and nuts for tightness.(visual) Fig. 1		
	Tug roll pins with pliers to ensure they are in place and not broken. (J hook style) (replace if damaged) Fig. 2		
	Verify all safety latches and hardware on hooks are securely in place and latches operate correctly. Fig. 1,2		
	Inspect load chain for snapping or squeaking noise during operation. If noisy lube or tighten as needed. Inspect load chain for wear and correct tension. Fig 3.		
	Visually inspect master link cotter pins for wear. Page 5		
	Visually inspect cotter pin on offset link and ensure D shaped pin vs. O shaped pin.(if O shaped see bulletin) Offset link is next to the master link and applicable only on carpet carousel model # 25-14 Page 5		
	Inspect drive chains for wear, proper alignment, tension and does not interfere with guards or covers. Fig 4		
	Inspect for any plastic or debris wrapped around chains or sprockets. (Notify Manager) Plastic must be removed from rolls of material. Fig. 4		
	Verify all covers are in place and in good condition.		
	Check condition of loading bars and ensure they are chained in place. Fig. 6		
	Ensure loading bar warning stickers are in place. Fig. 7 Vidir Part# 110-0034.		
	Verify that all material rolls are neatly, and properly secured with 3 velcro straps each. If not, remind store manager.		
	Instruct flooring associates and flooring manager how to load rolls of carpet correctly. Fig. 8		
	Check cutter chain for proper tension Fig. 9		
	Check reroller latches for proper operation (old or new style) Pg.8,9,10		
Inspect blades on the cutter replace if needed. Pg. 11			
Checked counter for proper operation and checked calibration with tape measure Fig. 9			
PM	Spray lithium grease on all hooks and bolts (between the hook and the chain). Fig. 1,2		
	Ensure set screw is tight on motor and gearbox pulleys. If loose check belt alignment. Fig. 4		
	Ensure set screw is tight on drive sprocket and key is in place. If loose check sprocket alignment. Fig. 4		
	Inspect to ensure motor and gearbox mounting bolts are tight. First time pm only. Fig. 4		
Inspect gearbox for oil leaks. Note if seal or gearbox needs replacement. Fig. 4			

Required Components

Qty	Description	Part #	Qty	Description	Part #	Application	Description
4	Oval Hook	111-0094	1	Carousel chain bolt tool	2-77038	Gear box	80/90 W oil
4	7/16" hook bolt	001-0212	10	Washers 1/2"	003-0062	Chain	30W oil
4	7/16" nuts	004-0088	1	Switch Stem	410-0052		
			1	Carousel J-hook replacement 5/16	111-0095		Spray can of lithium grease

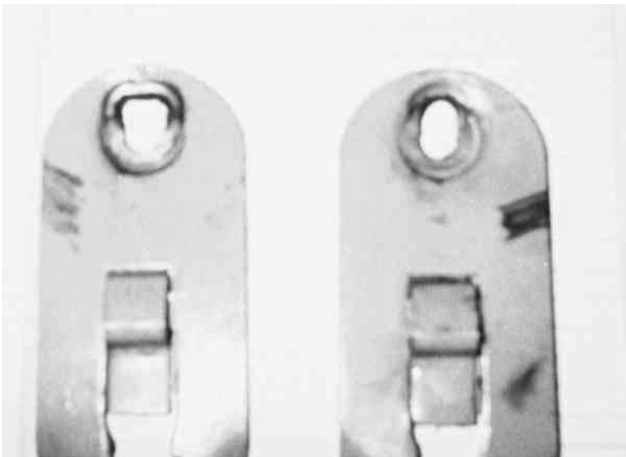
Conclusion: This unit has been inspected and serviced for safe operation and is operating as intended by the manufacturer.

Comments and Parts Used (If any): _____

This document is to clarify or better understand the signs of wear relating to the hooks and hardware on Vidir Carpet and wire carousels. It is critical that the following inspection method be utilized.

- 1) Each mounting bolt and hook must be visually inspected for signs of wear. If there is grease around the nut and bolt this must be wiped off the surface. Check for wear indicator marks prior to wiping the grease. Note that the racks that are loaded with heavy gauge wire spools generally have the most significant wear.
- 2) Typical signs of wear are – metal shavings or dust, wear marks in the paint indicating the nut has moved from the original location, elongation of the hook, offsetting of the nut/bolt in the hook mounting hole. Any bolt offset more than a 1/16" is a problem.
- 3) Any suspect bolts should be further inspected by securing the bay, and removing the nut to confirm bolt or hook wear. Those found to be worn should be changed. If you do not have replacement hooks and bolts the rack should be unloaded and tagged for non-use until replacement bolts and hooks are mounted.
- 4) The nuts used are self-locking nuts. Once removed new nuts should always be used. As a fallback use "Blue Loctite" on the old nut, but only temporarily until a new one is installed. Always grease the bolt and hook when assembled, replaced, when inspected, and during PM's.

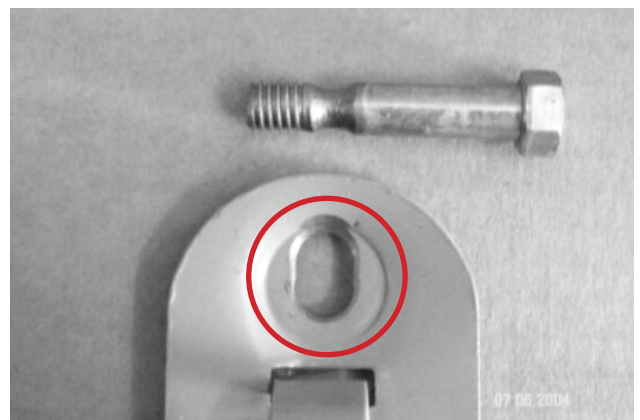
Pictured below is an extreme case for inspection clarity, but less extreme cases are definite safety hazards and any suspect wear needs to be investigated thoroughly. If nominal wear is suspect, remove the product carrier and hook for a detailed inspection. Severely worn parts need to be taken from service immediately and replacement parts installed. This must be done to ensure a safe environment for The Home Depot customers and employees.



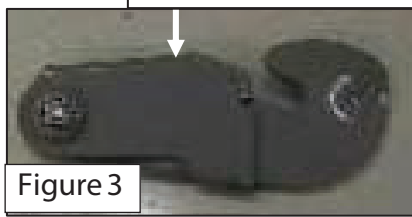
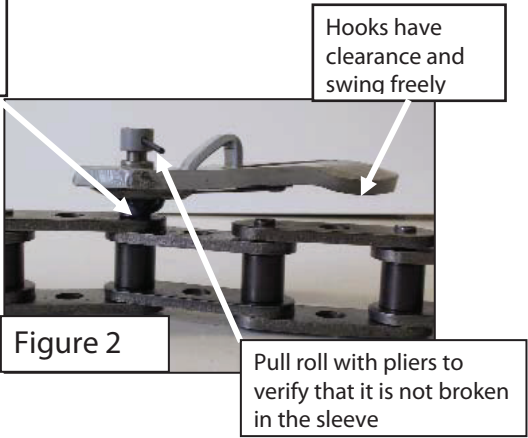
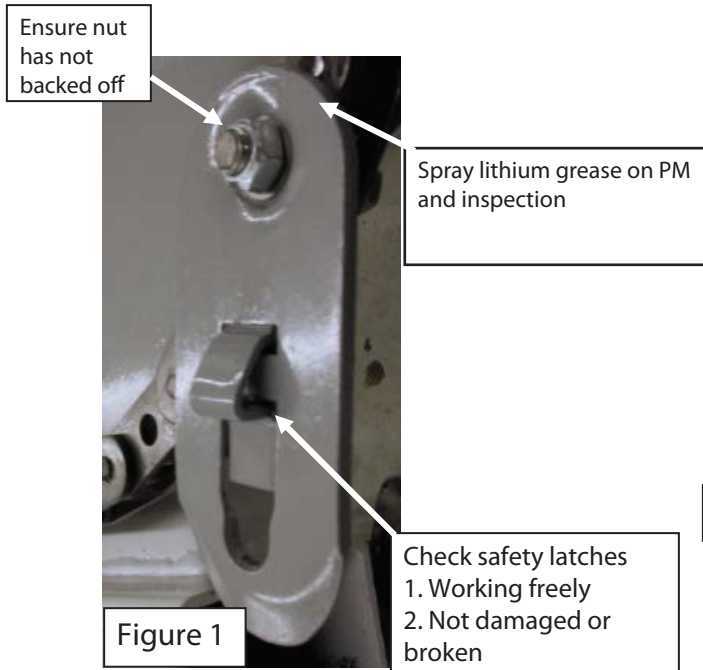
Worn Hooks: The left hook displays the Mickey Mouse wear pattern related to running the carousel in the both directions. This condition is easily spotted during any type of inspection. Also note the wear pattern in the paint from the nut movement.



Notice space under the nut this hook is seriously worn and must be replaced immediately.

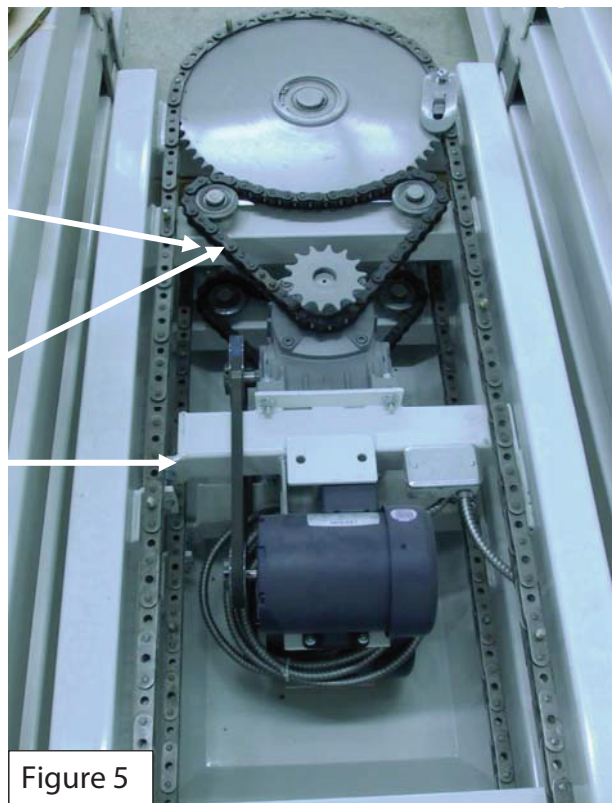


Worn Hook and Hardware: Note the bolt hole elongation in this hook. This condition will also cause wear on the bolt itself as pictured above and cause failure.



1/8" max deflection on either side

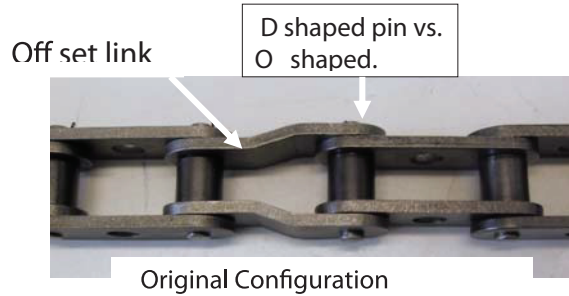
Check chain tension
Tightener bolts



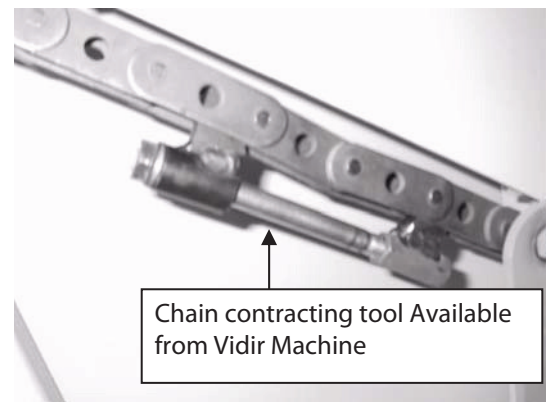
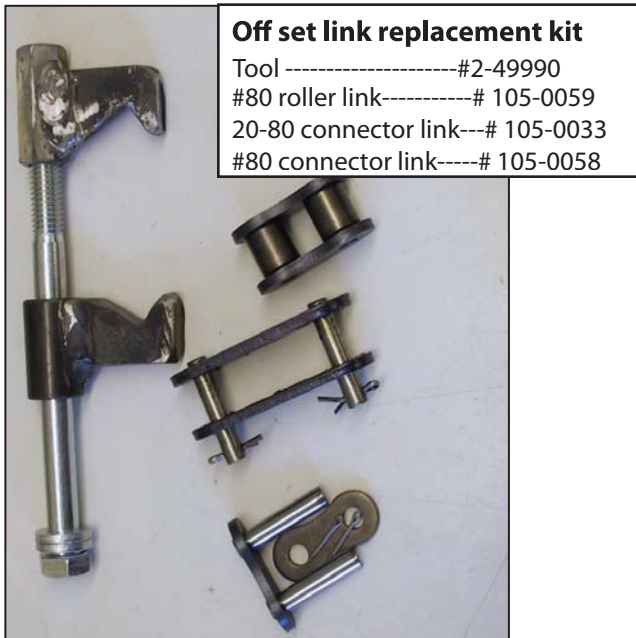
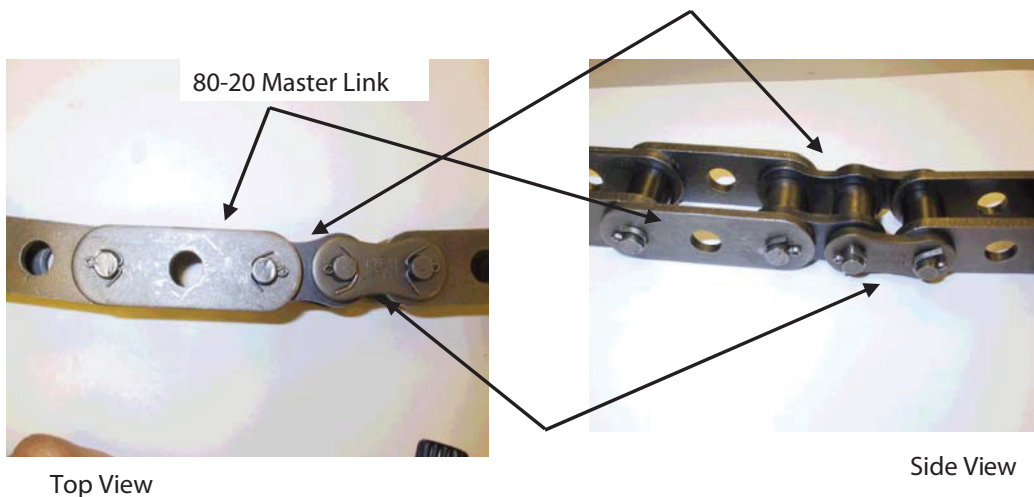
Replacing Offset Link on 25-14 Carousels

If the pin on offset link is O shaped it must be replaced.

The Offset Links should be replaced with a # 80 Heavy Duty Roller Link and a # 80 Heavy Duty Master Link. These parts are available through Vidir Machine Inc. by calling our Service Department at 1-800-210-0141.



80 Heavy Duty Roller Link



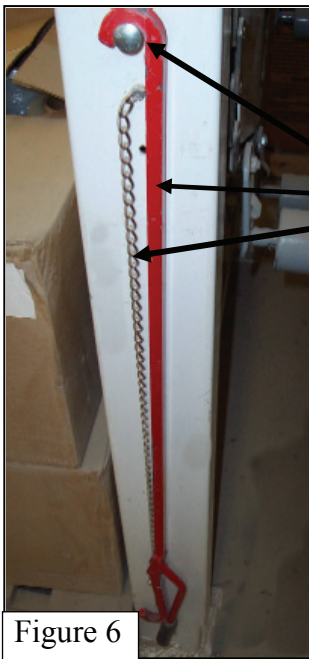


Figure 6

Inspect loading bars

1. Hook ends not deformed
2. Not bent
3. Chains in place

Remove Loading Bar Sticker

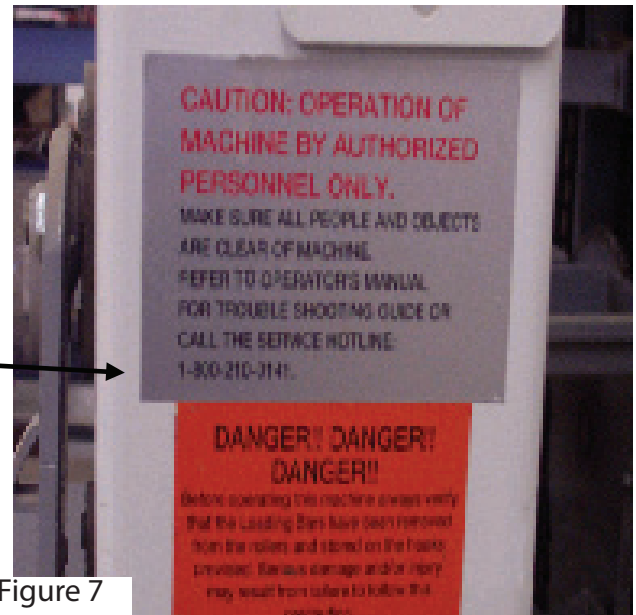


Figure 7

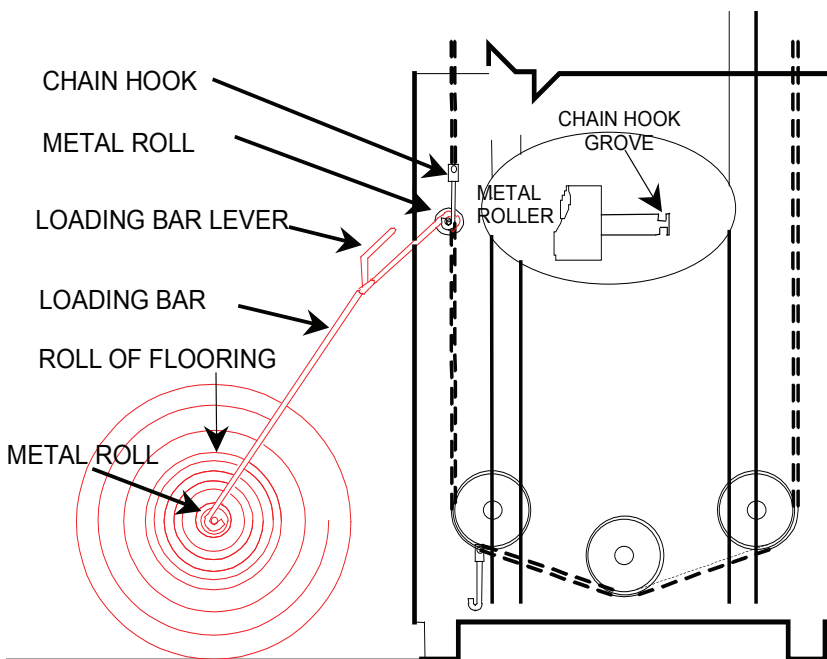


Figure 8

Be sure to remove both ends of the roller from the hooks before attempting to insert the roller into the roll of Carpet or Vinyl. If only one side of the roller is removed from the hooks serious damage can be caused to the hook and pin.
ALWAYS REMOVE POLE FROM CARPET CAROUSEL BEFORE ATTEMPTING TO INSERT IT INTO THE ROLL OF CARPET

Cutting Bar



Reroller Service



Reroller latch in the locked position
Part # 111-0124



Reroller latch in unlocked position



Reroller latch release lever. Pressing the lever releases the latches.

Reroller Latch Trouble Shooting

Check: That release lever operates fully and freely.

The mounting bolts are tight

If after checking the above items the latch

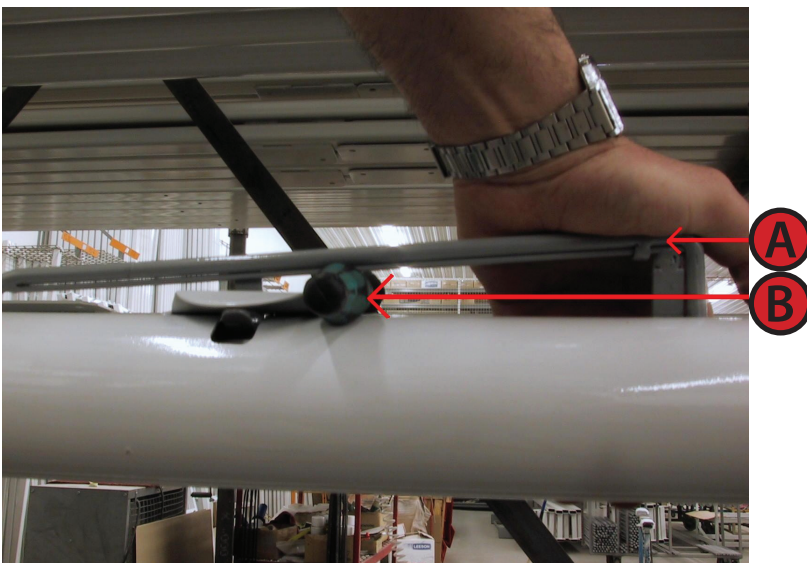
- doesn't engage
- doesn't release
- releases without pressing the release lever



Then replace the defective latches. To remove latch remove the mounting bolt and rotate and lift the latch

To adjust reroller latch pinch point:

Lift up the latch (A) but do not engage. Insert a small rod or screwdriver handle to keep the latch open. Press down on the latch to adjust the pinch point (B). Adjust the latch until the latch can securely hold a sheet of paper.



To begin the re-rolling process, engage all re-roller latches by turning latch nut (A) in the counterclockwise direction till firmly engaged.

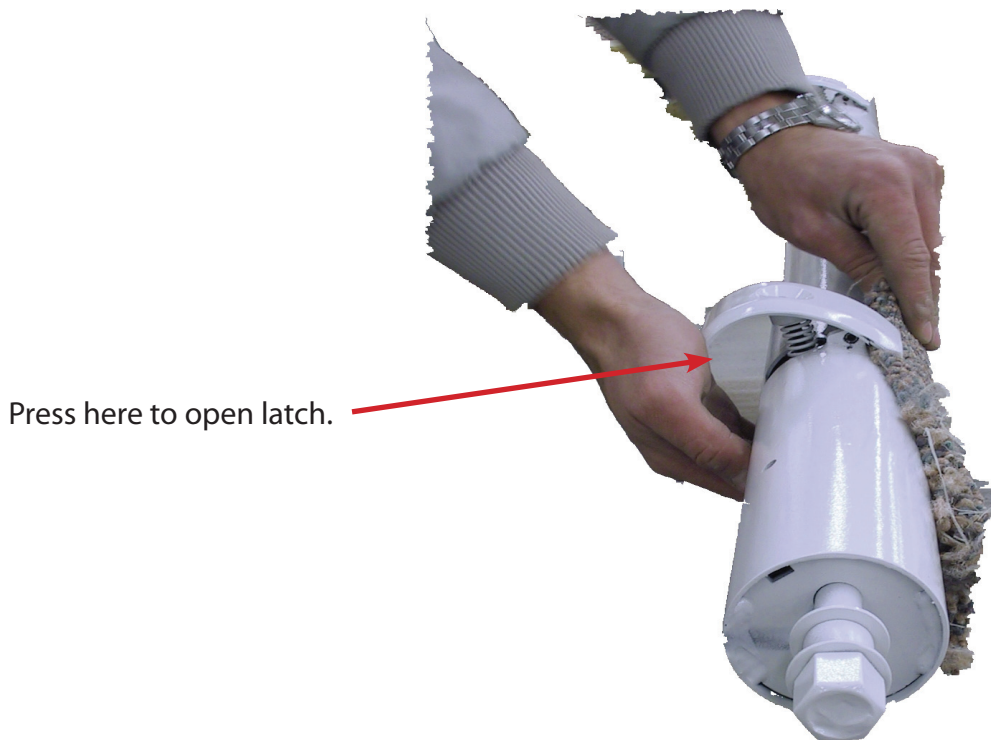
Remove the wrench and place the re-roller tube into the support brackets.



To insert the carpet press down on each latch separately and insert the carpet.

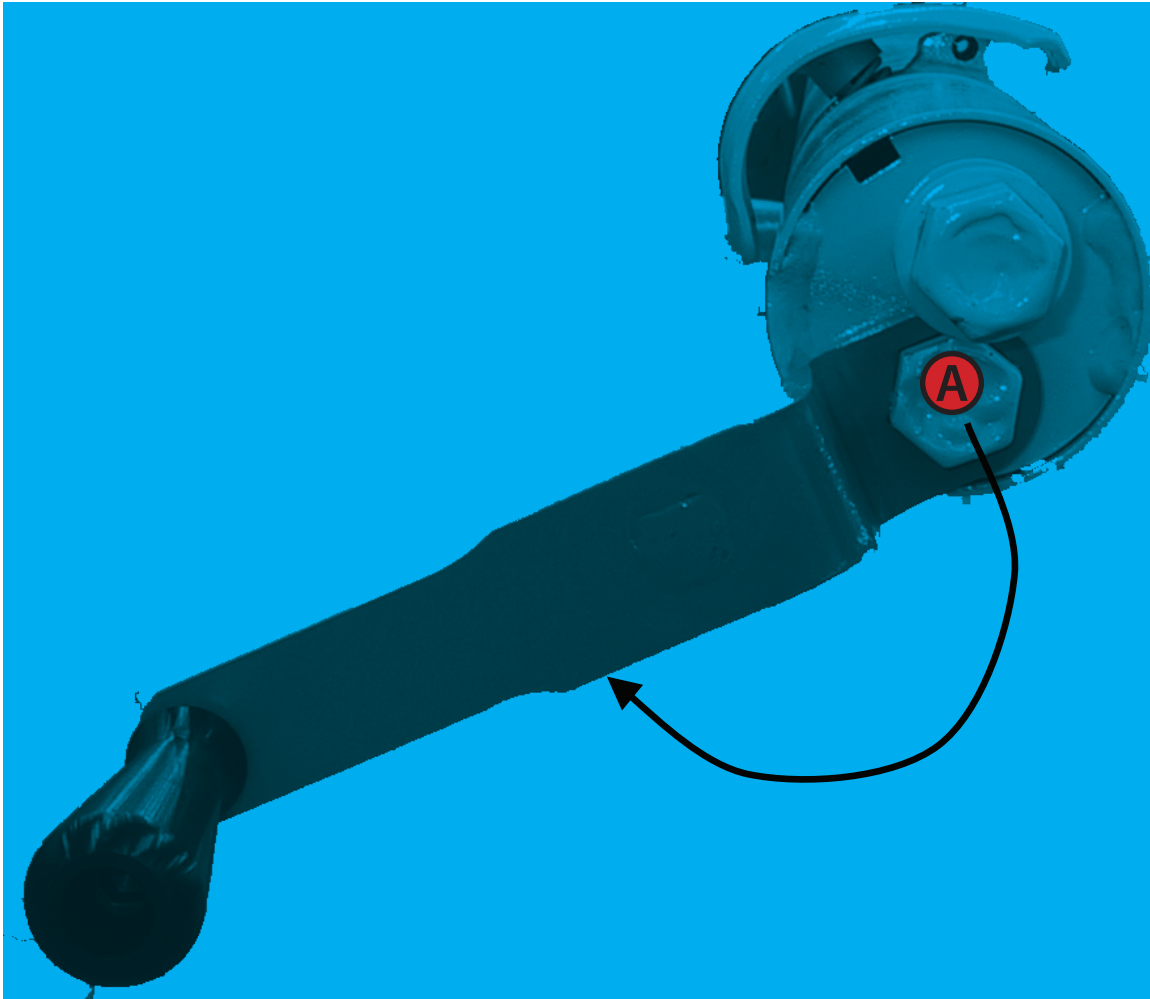
Let go of the latch and the spring loaded latch will grasp the carpet.

Once all 4 latches are grasping the carpet you can re-roll the product onto the pole.



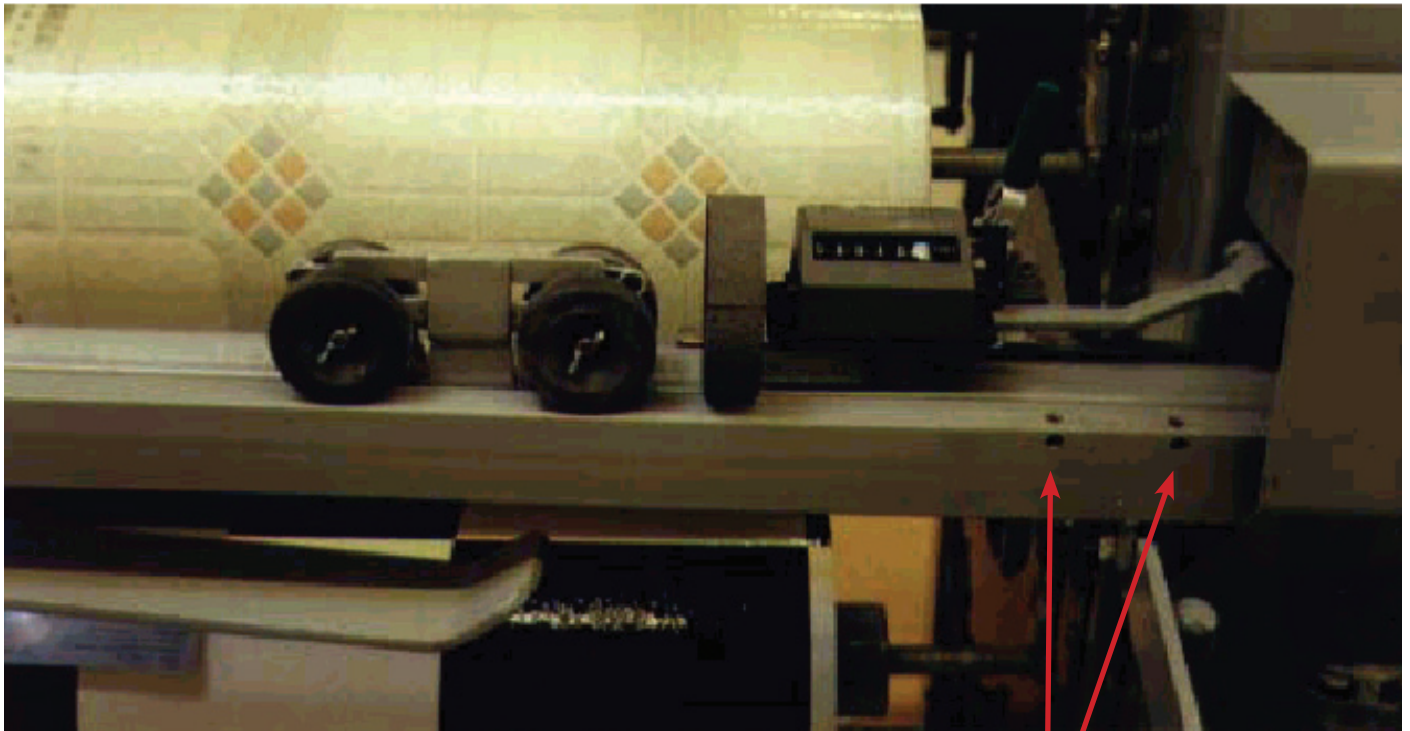
Press here to open latch.

To release the carpet turn the latch nut (A) in the clockwise direction.
Slide the re-roller out of carpet.
Place re-roller back on the support arms.



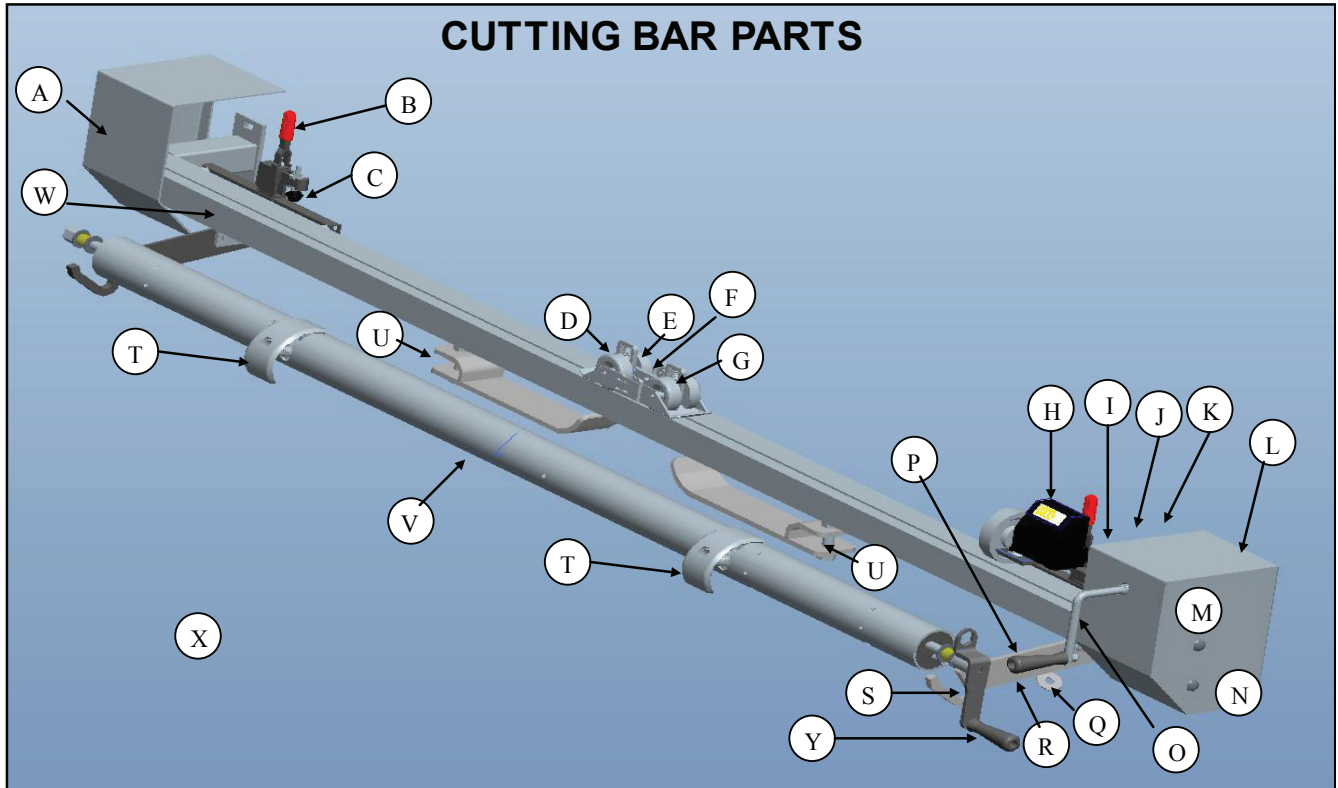
Instructions for changing blades on a vinyl rack cutting bar [set screw style blade holder]:

1. Move the blade holder to the operator side of the machine.
2. Remove the small wing nuts on the cutting bar wheels, and remove the grey colored plastic wheels.
3. Line up the set screw on the blade holder with the small holes on the side of the cutting bar. Inset an allen key and gently loosen the set screw.
4. Reverse the blade or exchange for a new blade. Tighten the set screw gently as to not strip the threads.
5. Replace and secure the grey plastic wheels.



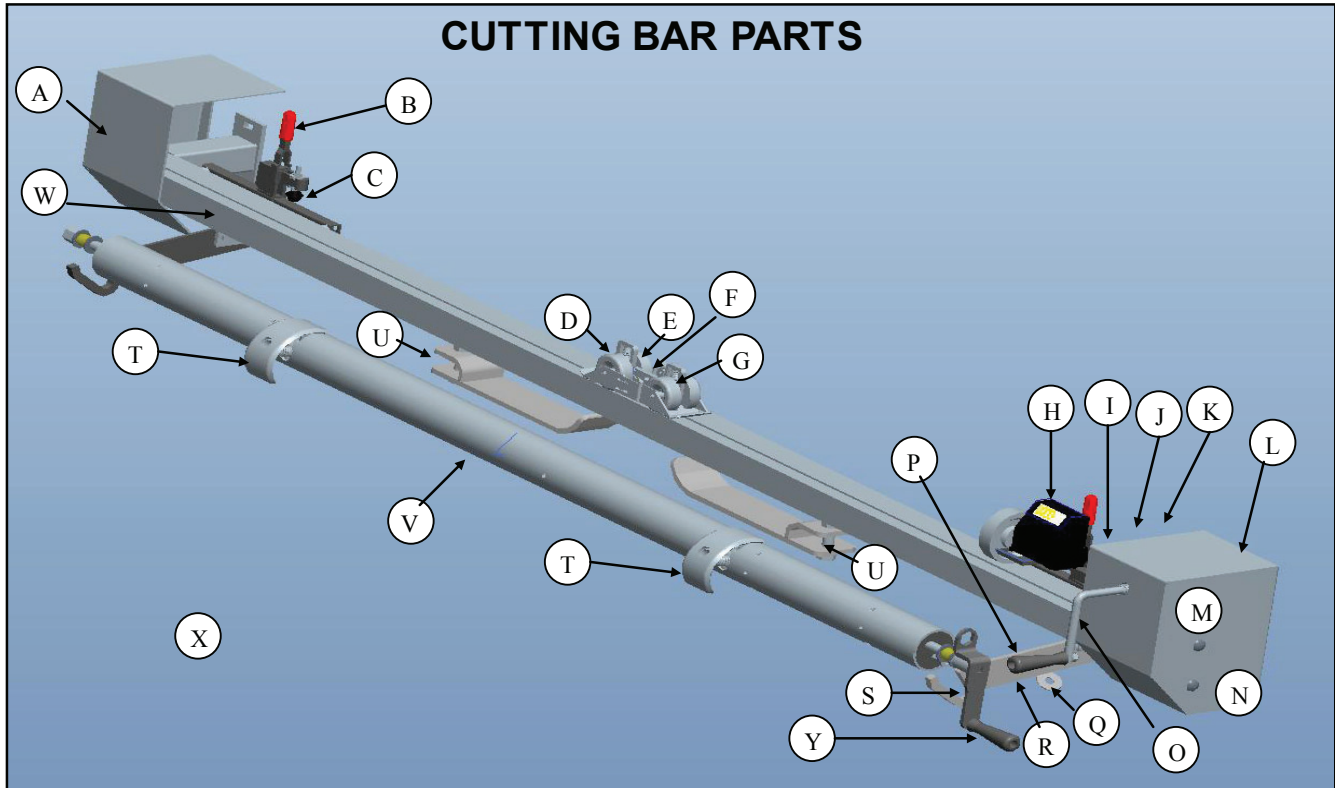
Access for allen keys.

MACHINE COMPONENTS



Item #	Description	Part #
A.....	Left cutting bar end cover.....	7-56208
B.....	Toggle clamp	7-43442
C.....	Spindle with rubber cushion.....	111-0026
D.....	Chain connector link (2).....	105-0034
E.....	Blade holder wheels.....	8-44087
F.....	Cutting blade slotted.....	103-0012
G.....	Double blade holder, manual assembly	8-44079
H.....	Counter 3002 TG RR Ft/In 1:1 with wheel	402-0096
	Counter, Metric with wheel	402-0096
I.....	Counter mounting arm	7-43429
J.....	Counter pivot bolt spring, set-screw and ball.....	111-0046
K.....	Cutter drive sprocket.	120-0015
L.....	Right cutter bar end cover	2-50661
M.....	#35 cutter chain	105-0054
N.....	Cutter chain idlers (2).....	7-43434
O.....	Cutter crank.....	7-43788
P.....	Cutter crank handle	111-0121
Q.....	Cutter crank bolt.....	001-0218
R.....	Re-roller mounting bracket left	7-7560
	Re-roller mounting bracket right	7-43470
	cbar roll rest short , (no crank holder).....	7-71366
	cbar rt roll rest long, (no crank holder)	7-53100,
	cbar rt roll rest long w/crank holder.....	7-53101

MACHINE COMPONENTS



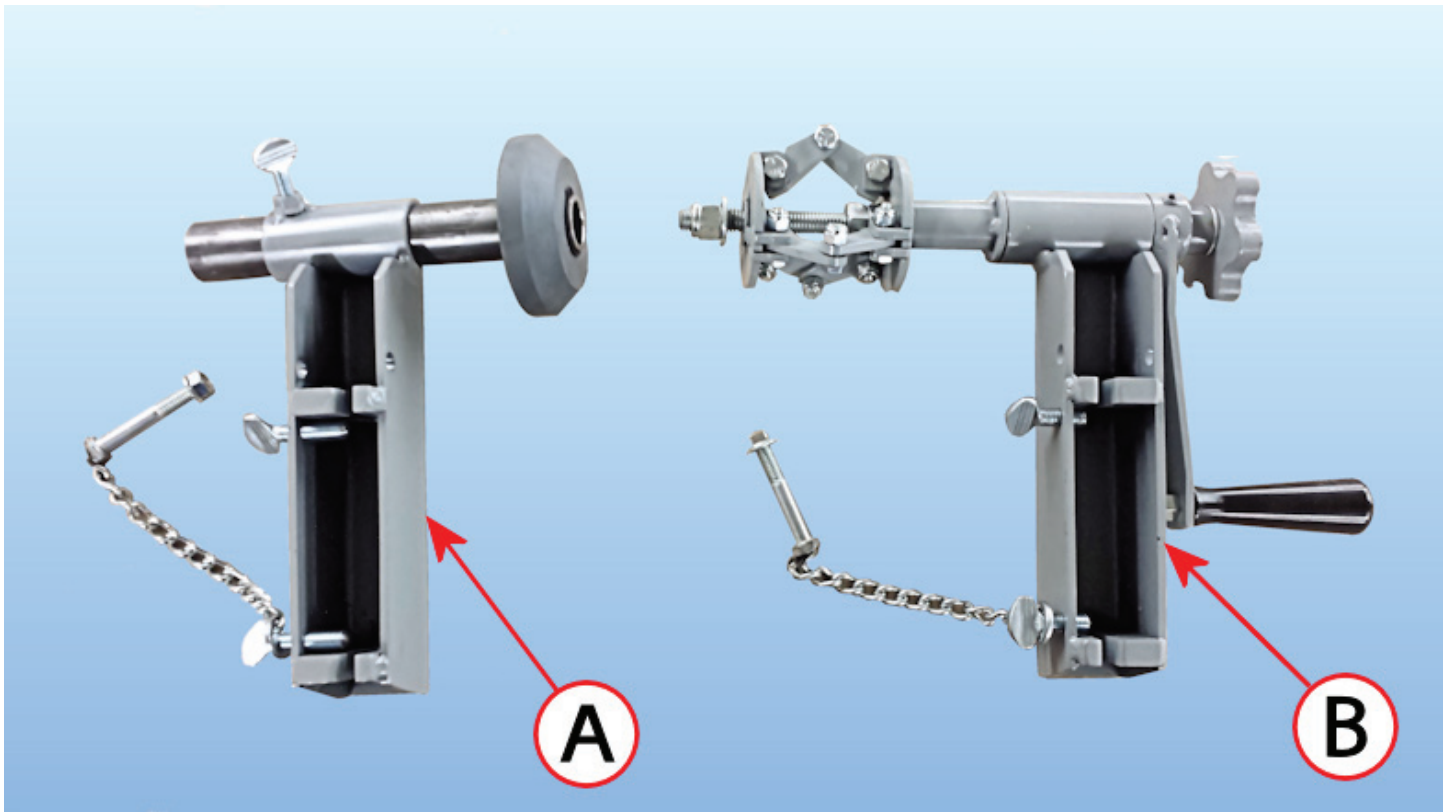
Item #	Description	Part #
S.....	Re-roller release handle assembly	2-44403
T.....	Re-roller latch service kit	7-59538
U.....	Swing out cradle.....	7-7580
V.....	Re-roller assembly 12 Ft.....	503-0010
W.....	Rear cutter chain idler with bolt	120-0133
X.....	Complete cutting bar with re-roller.....	111-0216
	.....Complete cutting bar without re-roller.....	7-50714
Y.....	Re-roller combination crank.....	2-44403
Z.....	Cbar counter brace asmb service kit (for 402-0096/0096) (not shown)	2-63387

OPERATING INSTRUCTIONS

Vinyl Carousel Paper Core Attachment

This attachment allows you to use paper cores to re-roll vinyl directly on to paper cores.
Instructions on how to use the paper core attachment

1. Mount core holder "A" onto the left re-roller mounting bracket.
2. Mount core holder "B" onto the right re-roller mounting bracket.
3. Place the paper core over the left side paper core holder.
4. Slide the paper core over the right side paper core holder.
5. Pull the vinyl up to the paper core and attach it with tape.
6. Re-roll the material till the desired length.
7. Cut and wrap the roll.
8. To remove the paper core reverse the rotation and the paper core will loosen off from the holders and you.



Item #2-50914 - paper core adapter asmb.

Part A - item #2-60715 - paper core reroller idler asmb.

Part B - item #2-60724 - paper core reroller crank subasmb.

Wire Carousel Preventative Maintenance & Inspection Checklist

Company	City	Province	Date
Store No.	Serial No.	Model/Type	Current Hour Meter Reading
Service Company:		Store Signoff:(Print)	
Service Technician (Print):		Store Title:	
Service Tech Signature:		Store Signature:	

Check: INSPECTION (complete inspection line items only) or PM PREVENTATIVE MAINTENANCE (complete all inspection & PM line items)

Preventative Maintenance is Recommended Every 100 Hours or 12 Months. Inspect both sides of the machine. The inspection of all hooks, bolts, pins, mounting hardware, chains and the overall condition of these components are critical to ensure machine safety, and integrity of the preventative maintenance process. Initialling each line as indicated below confirms these items have been thoroughly inspected for defects.

	✓ Indicates item is inspected and in good condition - ✗ Indicates item requires additional service	Service	Initials
INSPECTION	Inspect all hooks, bolts, and pins (connecting hardware) for signs of wear or damage (per spec bulletin) Fig 1, 2.		
	Verify all hooks, bolts, and nuts for tightness. (visual) Fig. 1 and that all hooks swing freely.		
	Tug roll pins with pliers to ensure they are in place and not broken. (J hook style) (replace if damaged) Fig. 2.		
	Verify all safety latches and hardware on hooks are securely in place. Fig. 1, 2.		
	Visually inspect master link cotter pins for wear. Page 4.		
	Inspect load chain for snapping or squeaking noise during operation. If noisy lube or tighten as needed. Inspect load chain for wear and correct tension. Fig 3.		
	Visually inspect load chain sprockets for wear, mis-alignment or tilt (without removing covers). Fig. 4.		
	Visually inspect cotter pin on offset link and ensure 'D' shaped pin vs. 'O' shaped pin. (if 'O' shaped see bulletin) Offset link is next to the master link and applicable only on Wire carousel model # 13-34. Page 4.		
	Inspect both gearbox units for oil leaks. Note if seal or gearbox needs replacement. Fig. 4.		
	Inspect for any wire or debris wrapped around chains or sprockets. (Notify Manager) Fig. 4.		
	Verify all covers are in place and in good condition. Inspect condition of wire mesh at rear if equipped. Fig. 4.		
	Ensure "Secure Wire End" stickers are in place. Fig.4.		
	Check to ensure all wire bay safety latches are in good condition Fig 13,14.		
	Inspect all product rods for wear at the connection points or other damage. (discard badly damaged rods) Fig.7,8.		
	Inspect all spare rods located at the foot of the machine. Discard excessively worn rods. Fig. 8.		
	Inspect all wire bays slots for excessive wear or damage. (replace if necessary) Fig 9, 10, 11 12, 13.		
	Verify that all wire ends are secured properly. (If not, remind store personnel and explain hazards.).		
	Inspect to ensure the spinner lock for correct operation, adjust if necessary. Fig. 14.		
	Check wire reel and counter for correct operation.		
Instruct store personnel and Manager how to load spools of wire correctly. Page 7.			
Verify wire mesh or lexan is mounted on inside of front guard and sheet metal inside rear guard is in good condition.			
Ensure loctite is on set screw threads for the drive sprocket. Ensure key is in place and sprocket is in alignment. Fig 18a, 18b, 18c, 18d.			
Ensure setscrew is tight on motor and gearbox pulleys. If loose, check belt alignment through access hole. Fig. 19.			

Required Components

Qty	Description	Part #	Qty	Description	Part #	Application	Description
4	Oval Hook	111-0094	1	Carousel chain bolt tool	2-77038	Gear box	80/90 W oil
4	7/16" hook bolt	001-0212	40	Roll pin	113-0041	Chain	30W oil
4	7/16" nuts	004-0088	10	Washers 1/2"	003-0062		
			1	Switch Stem	410-0052	Spray can of lithium grease	

Conclusion: This unit has been inspected and serviced for safe operation and is operating as intended by the manufacturer.

Comments and Parts Used (If any): _____

Fax completed form to 1-204-364-3072 Attn: Service Manager or e-mail to service@vidir.com

Wire Carousel Preventative Maintenance & Inspection Checklist

Company	City	Province	Date
Store No.	Serial No.	Model/Type	Current Hour Meter Reading
Service Company:		Store Signoff:(Print)	
Service Technician (Print):		Store Title:	
Service Tech Signature:		Store Signature:	

Check: INSPECTION (complete inspection line items only) or PM PREVENTATIVE MAINTENANCE (complete all inspection & PM line items)

Preventative Maintenance is Recommended Every 100 Hours or 12 Months. Inspect both sides of the machine. The inspection of all hooks, bolts, pins, mounting hardware, chains and the overall condition of these components are critical to ensure machine safety, and integrity of the preventative maintenance process. Initialling each line as indicated below confirms these items have been thoroughly inspected for defects.

	✓ Indicates item is inspected and in good condition - ✕ Indicates item requires additional service	Service	Initials
PM	Inspect to ensure motor and gearbox mounting bolts are tight. Fig. 11.		
	Spray lithium grease on all hooks and bolts. (between the hook and the chain) Fig. 1,2.		
	Inspect drive chains for wear, proper alignment, tension and does not interfere with guards or covers. Fig. 4.		
	Inspect to ensure motor and gearbox-mounting bolts are tight. First time pm only. Fig. 4.		

Required Components

Qty	Description	Part #	Qty	Description	Part #	Application ..	Description
4.....	Oval Hook.....	111-0094	1	Carousel chain bolt tool	2-77038	Gear box	80/90 W oil
4.....	7/16" hook bolt.....	001-0212	40.....	Roll pin	113-0041	Chain.....	30W oil
4.....	7/16" nuts	004-0088	10.....	Washers 1/2"	003-0062		
			1	Switch Stem.....	410-0052	Spray can of lithium grease	

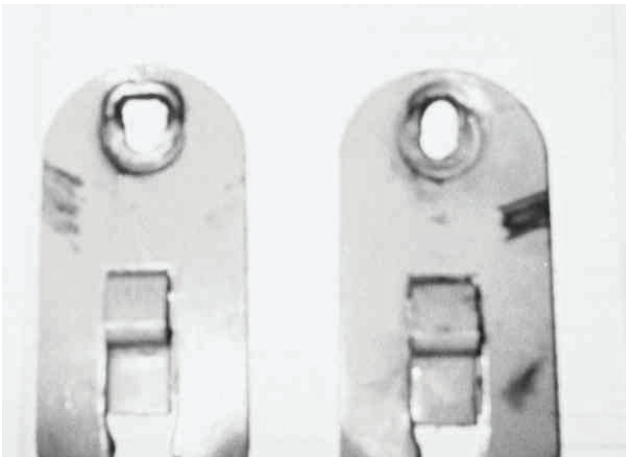
Conclusion: This unit has been inspected and serviced for safe operation and is operating as intended by the manufacturer.

Comments and Parts Used (If any): _____

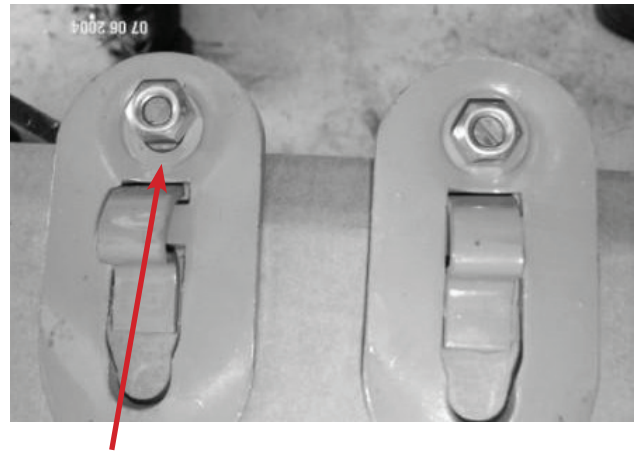
This document is to clarify or better understand the signs of wear relating to the hooks and hardware on Vidir Carpet and wire carousels. It is critical that the following inspection method be utilized.

- 1) Each mounting bolt and hook must be visually inspected for signs of wear. If there is grease around the nut and bolt this must be wiped off the surface. Check for wear indicator marks prior to wiping the grease. Note that the racks that are loaded with heavy gauge wire spools generally have the most significant wear.
- 2) Typical signs of wear are – metal shavings or dust, wear marks in the paint indicating the nut has moved from the original location, elongation of the hook, offsetting of the nut/bolt in the hook mounting hole. Any bolt offset more than a 1/16" is a problem.
- 3) Any suspect bolts should be further inspected by securing the bay, and removing the nut to confirm bolt or hook wear. Those found to be worn should be changed. If you do not have replacement hooks and bolts the rack should be unloaded and tagged for non-use until replacement bolts and hooks are mounted.
- 4) The nuts used are self-locking nuts. Once removed new nuts should always be used. As a fallback use "Blue Loctite" on the old nut, but only temporarily until a new one is installed. Always grease the bolt and hook when assembled, replaced, when inspected, and during PM's.

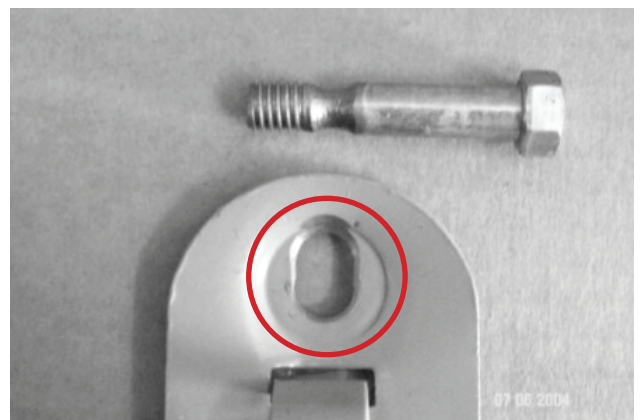
Pictured below is an extreme case for inspection clarity, but less extreme cases are definite safety hazards and any suspect wear needs to be investigated thoroughly. If nominal wear is suspect, remove the product carrier and hook for a detailed inspection. Severely worn parts need to be taken from service immediately and replacement parts installed. This must be done to ensure a safe environment for The Home Depot customers and employees.



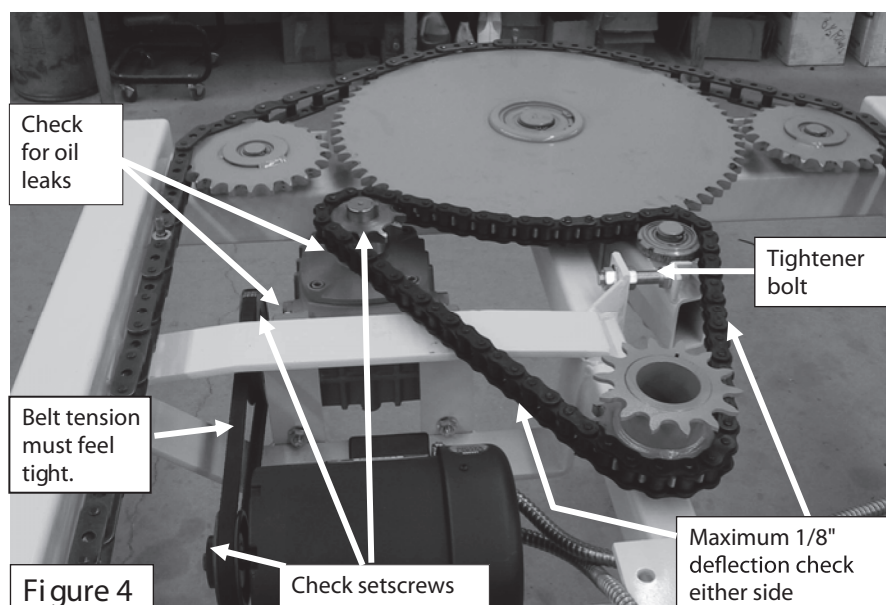
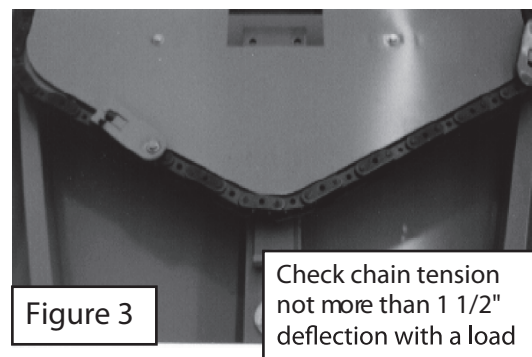
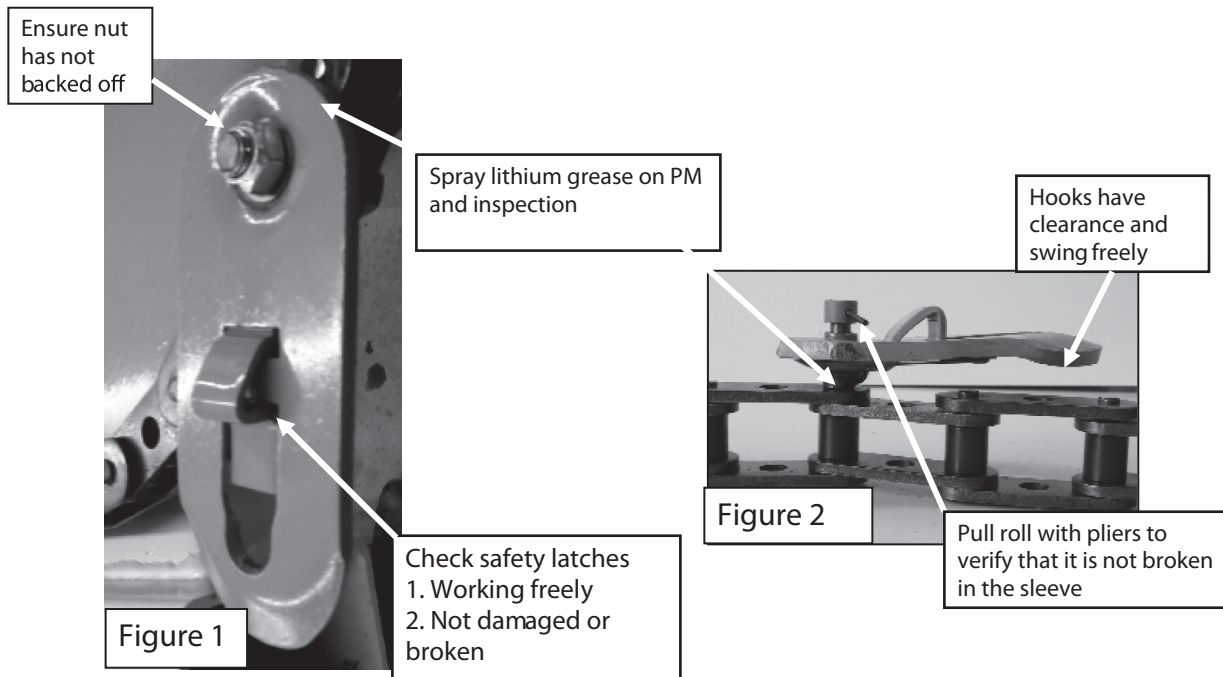
Worn Hooks: The left hook displays the Mickey Mouse wear pattern related to running the carousel in the both directions. This condition is easily spotted during any type of inspection. Also note the wear pattern in the paint from the nut movement.



Notice space under the nut this hook is seriously worn and must be replaced immediately.



Worn Hook and Hardware: Note the bolt hole elongation in this hook. This condition will also cause wear on the bolt itself as pictured above and cause failure.



Replacing Offset Links on 13-34 Carousels

If the pin on the offset link is O shaped it must be replaced.

The Offset Links should be replaced with a # 80 Heavy Duty Roller Link and a # 80 Heavy Duty Master Link. These parts are available through Vidir Machine Inc. by calling our Service Department at 1-800-210-0141

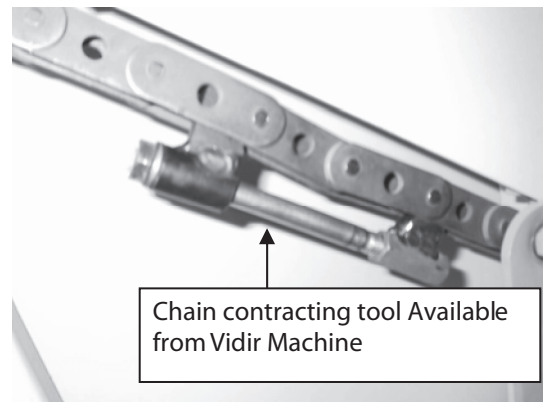
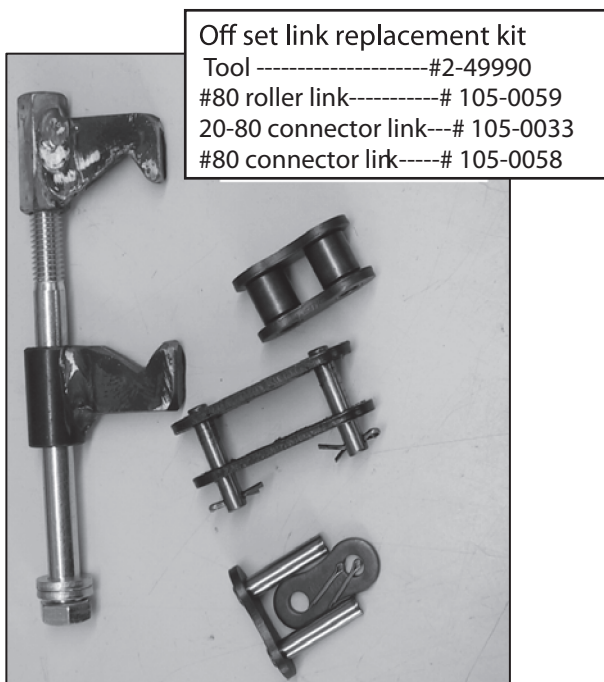
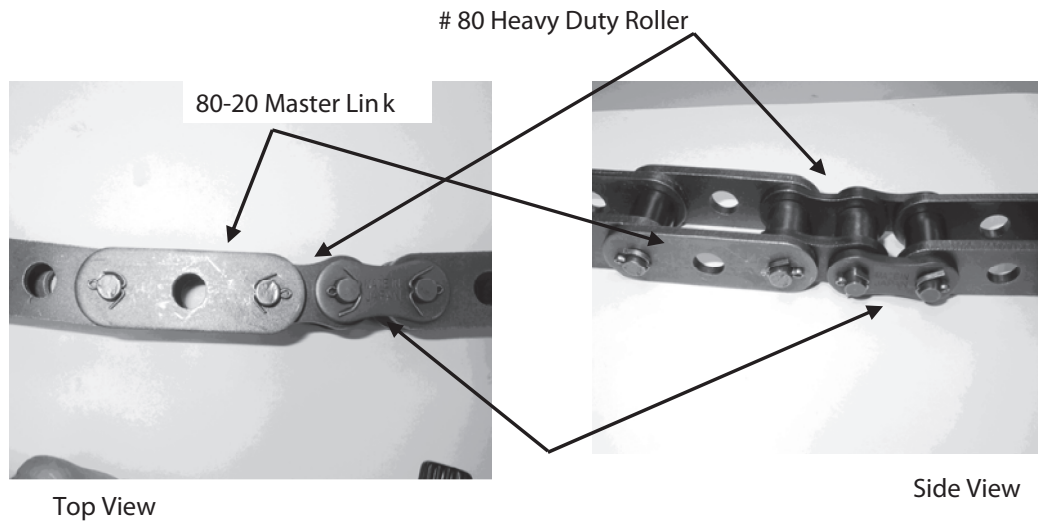
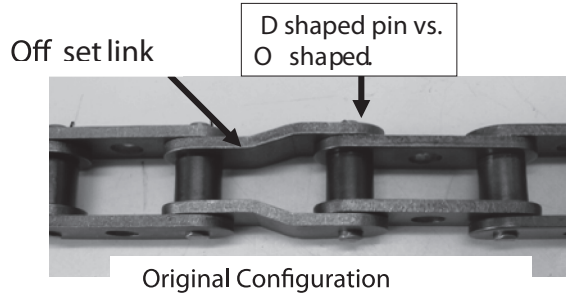




Figure 5

If the wire bay doesn't have the bracket then secure cords to the spool. Use a strap, clamp or electrical tape.

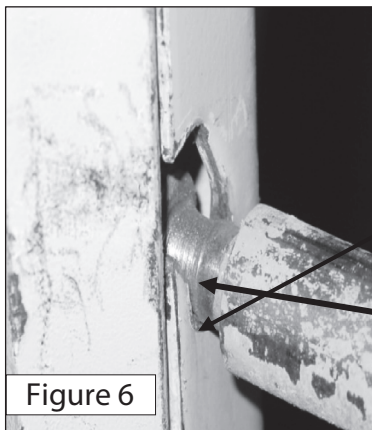


Figure 6

Shown is a spool or rod slot that is worn out. The slot is rounded badly and wearing thin at the lead retaining edge of the slot. Also seen here is a rod that has significant wear. **If the wear diameter is smaller than 3/8 the rod must be replaced discarding the old rod.**

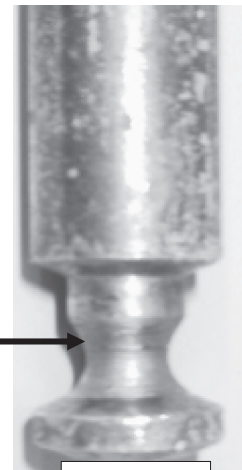


Figure 7

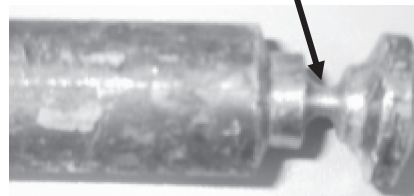
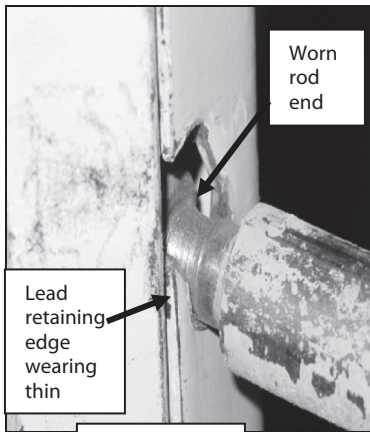


Figure 8

Inspect all spare rods to identify excessively worn rods.

There should be an assortment of these rods at the foot of the machine on either the left or right side of the machine.

In this close up you can see one of the rods is excessively worn. The minimum diameter on the shank where it rotates inside the bay or spinner is 3/8". **If you find rods with the diameters less than 3/8, a new one needs to be ordered and the old one discarded.** Always make the Electrical Department Manager aware that new rods should be ordered to replace defective ones.



F Figure 9

Shown is a spool or rod slot that is worn out. The slot is rounded badly and wearing thin at the lead retaining edge of the slot. Also seen here is a rod that has significant wear. **If the wear diameter is smaller than 3/8 the rod must be replaced discarding the old rod.**



Figure 10

Shown is the center slotted support for the spinner spool. Verify the slots and rod end diameters are not worn here also. **If any slot is badly worn in the wire bay it needs to be replaced.**

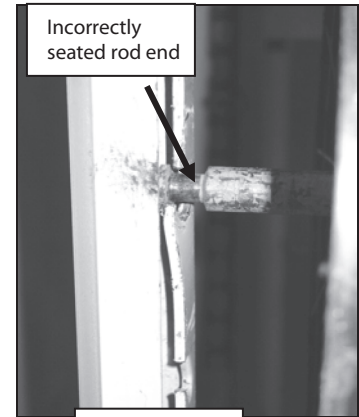


Figure 11

Shown in figure 11 you can see a damaged wire bay that prevents the rod from seating in the slot correctly. **This is a definite safety hazard and needs to be addressed immediately** With this condition a wire-loaded rod could fall from the machine causing injury or worse. If the slots are good and the rail can be straightened to allow the rod to seat properly, this bay could continue in use if no other damage exists.



Figure 12

Check to insure wire bay safety latches work properly. Latch should be centered within the vertical rail as to prevent any rod from being pulled from the slot without pushing the latch to the side.

Verify that the springs and latch mounting hardware is present and tight. Ensure that safety latches are straight. Bent safety latches will not hold material. Replace all bent safety latches.



Figure 13



Figure 14

Ensure the spinner lock is operating correctly. It should rotate freely left to right. Locks must always be disengaged when not spooling wire. Failure to do so may cause the bay frame to slant and get caught in the machine.

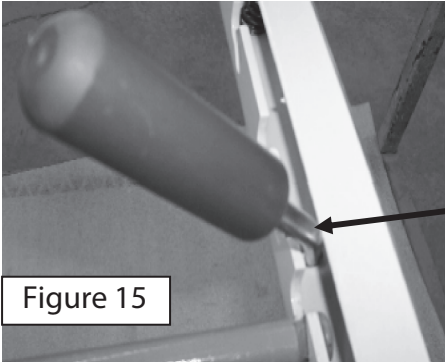


Figure 15

How to load a roll of wire

1. Insert loading bar wedge into hole and press handle down to open channel. (both ends)
2. Remove spool rod.
3. Place spool rod into spool of wire.
4. Bring loading cart up to the roll of wire and lift into place.
5. Ensure that both ends of the rod are seated properly into the slots. Note some rods may need to be rotated slightly to seat properly.

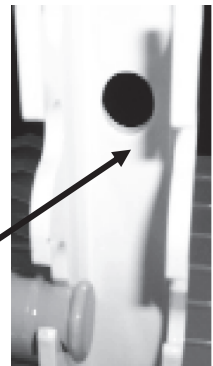


Figure 16

6. While loading the spool rod into machine be careful to load both ends at the same time. IF SPOOL ROD IS LEFT TO DANGLE FROM ONE END THE SLOT MAY BE DAMAGED RESULTING IN AN UNSAFE CONDITION. See Figure 17

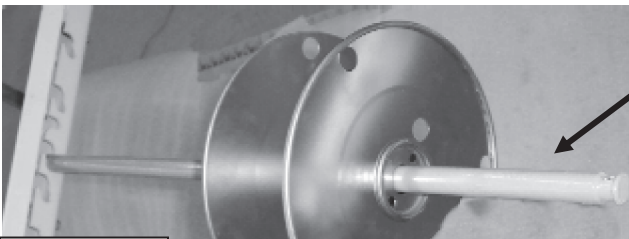


Figure 17

DO NOT DANGLE THE ROD ON ONE END!!
DAMAGE MAY RESULT!

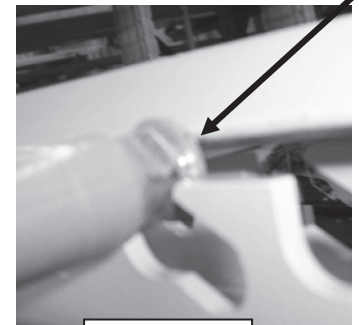


Figure 18

Required Components

Qty	Item	Part #	Application	Qty	Item
4	Oval hook	111-0094	Gear box	1 quart	80/90 W oil
4	7/16" nuts	004-0088	Chain	1 quart	30 W oil
40	roll pins	113-0041	Hooks and bolts	1 can	Spray lithium grease

Wire Carousel

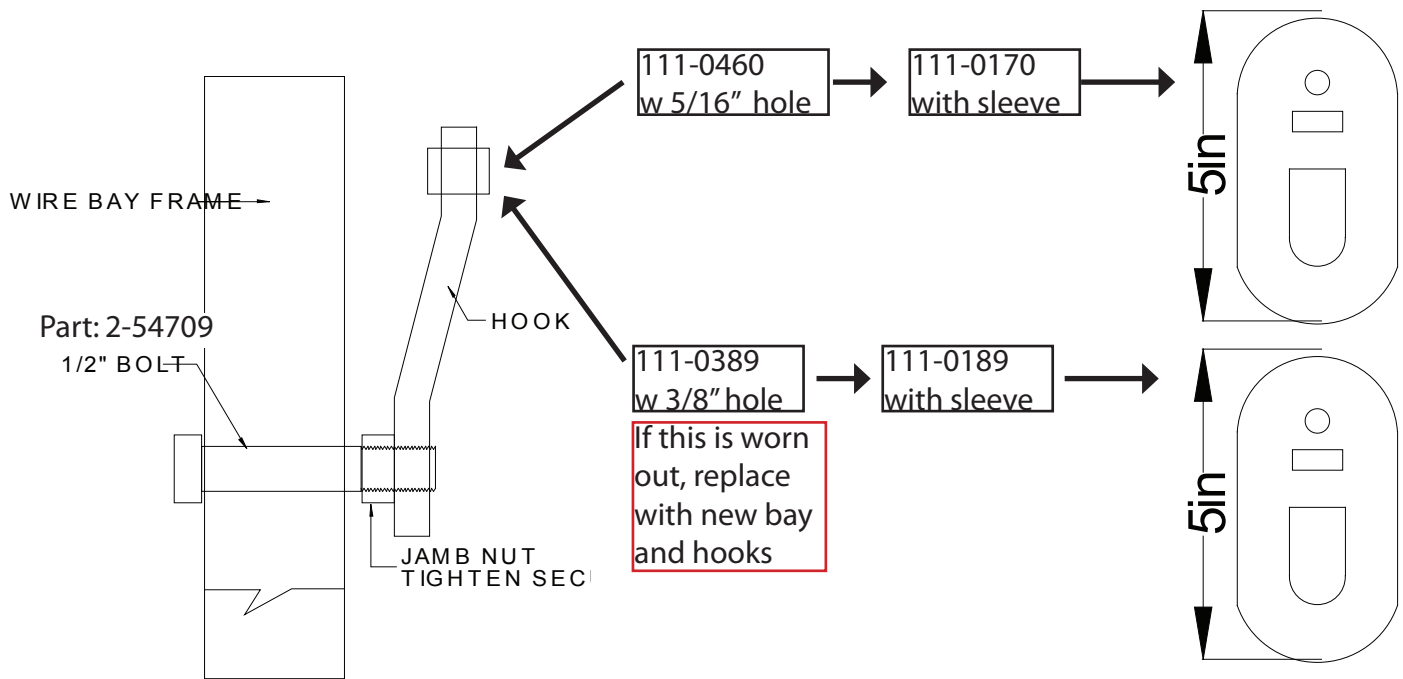
Wire bays, brackets and hooks

Below you will find the earliest type of wire bay hooks used on the Wire Carousel. The earliest type of hook we used a bracket that was threaded at one end and a sleeve welded on the other end. The earlier wire bay frames a 1/2" hole drilled through the side channel rather than a shaft welded to it. A 1/2" bolt fastened the wire bay to the bracket. Either a jam nut or a roll pin was used to lock the bolt to prevent it from coming loose. Note this mounts to the chain with either double length chain pin (80-2) or a 3/8" bolt. Note: be sure order the correct part as per pin or bolt.

The wire bay fastened with 1/2" bolt is no longer available and must be replaced with the following parts.

Wire bay frame 111-0092 and hooks either 111-0389 or 111-0460

NOTE: these hooks (with sleeves) are for carousels that have full sheet metal guard on the inside of the machine surrounding the chain. If the machine has only top and bottom covers hooks with out sleeves. See next page.



111-0389 bracket with 3/8" hole is replaced with a one piece oval hook

REPLACEMENT 111-0189 (SHORT) 1 PCE OVAL HOOK W/ 3/8 SLEEVE

111-0460 bracket with 5/16" hole is replaced with a one piece oval hook

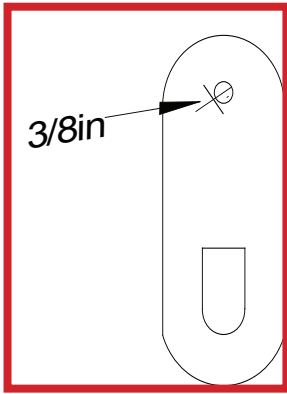
REPLACEMENT 111-0170 (SHORT) 1 PCE OVAL HOOK W/ 5/16 SLEEVE

Wire Carousel

Wire bays, brackets and hooks (con't)

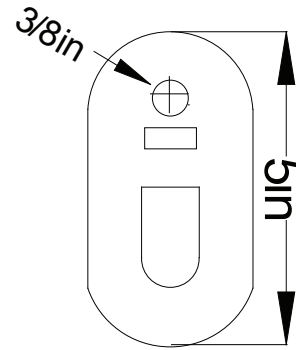
The next hook change was to narrow hook with a 3/8" hole with a 3/8" bolt in the chain. Then in May 1998 the change was made to the one piece oval

OBSOLETE

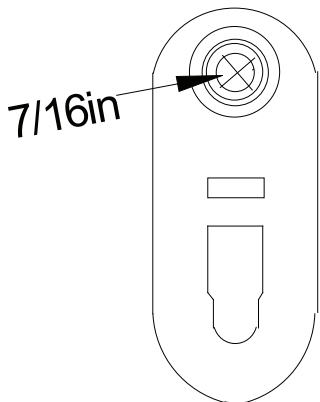


111-0140

→ replace with →

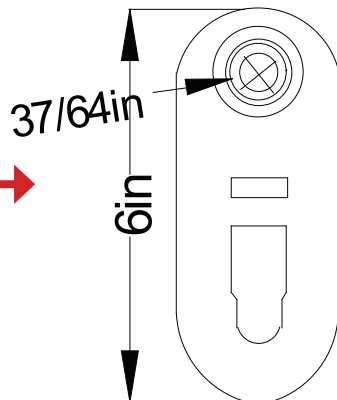


111-0171



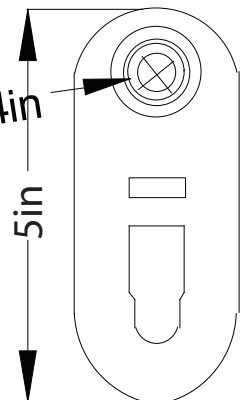
111-0094
One pc oval hook

→

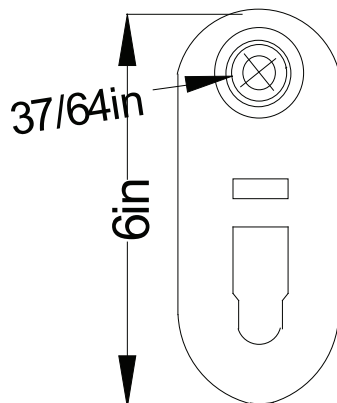
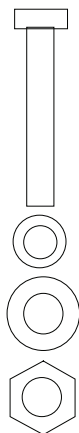


111-0094
w/ bushing

→



2-56173
w/ bushing



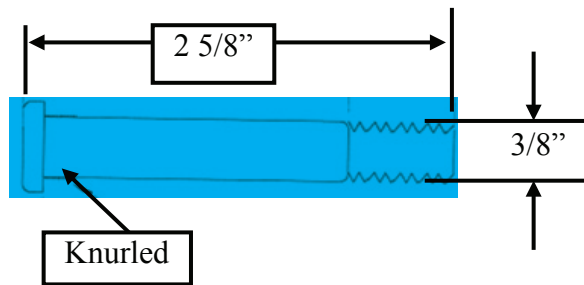
111-0285
One pc oval hook and bolt kit
1-bolt
1-bushing
1-washer
1- lock nut

Wire Carousel

Wire Carousel Hook Identification and Upgrade Chart				
Machine Serial number	Dates	Original part #	Upgraded part #	Notes
W7	2/96--8/97	111-0460	111-0170	Check if machine has been upgraded to 3/8" bolts.
W8--WF8--WF9	9/97--12/97	111-0389	111-0189	If W7 has 3/8" bolts use these parts
WF10	1/98--4/98	111-0140	111-0171	
WF11--WF20	5/98--4/07	111-0094	111-0094 w bushing	
WF21	4/07----	111-0094 w/ bushing	N/A	

Chain Pin and Bolt Identification Chart				
Machine Serial number	Dates	Original part #	Upgraded part #	Notes
W7	2/96--8/97	113-0042	N/A	Check if machine has been upgraded to 3/8" bolts.
W8--WF8--WF9	9/97--12/97	001-0210	N/A	If W7 has 3/8" bolts use these parts
WF10	1/98--4/98	001-0210	N/A	3/8" bolt
WF11--WF20	5/98--4/07	2-47290	N/A	Carousel chain bolt
WF21	4/07----	2-47290	N/A	Carousel chain bolt

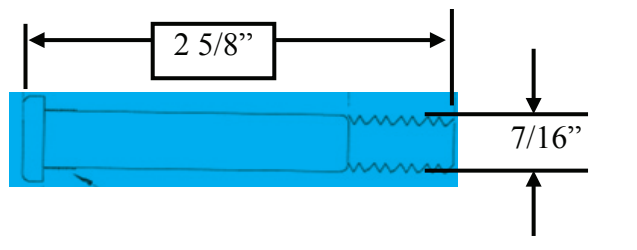
001-0210 3/8" Bolt for WF8-WF10



3/8" bolt , nuts and washers

1. 3/8" bolt001-0210
2. 3/8" lock nut004-0087
3. 3/8" washer (thin) 003-0059
4. 3/8" washer003-0008
5. 3/8 X 2 I9 wire crsl chain bolt srvc 2-70556

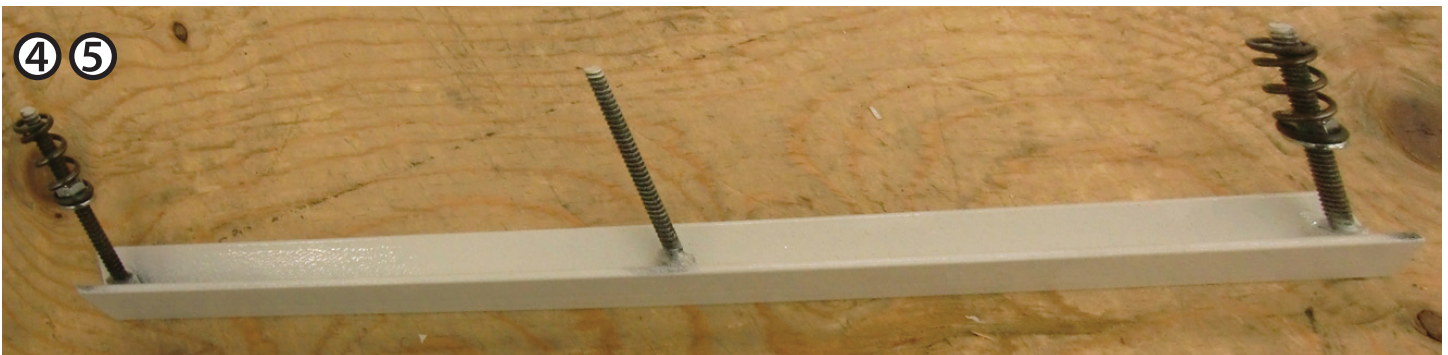
2-47290 Carousel Chain Bolt for WF11-WF21



Carousel chain bolt , nuts and washers

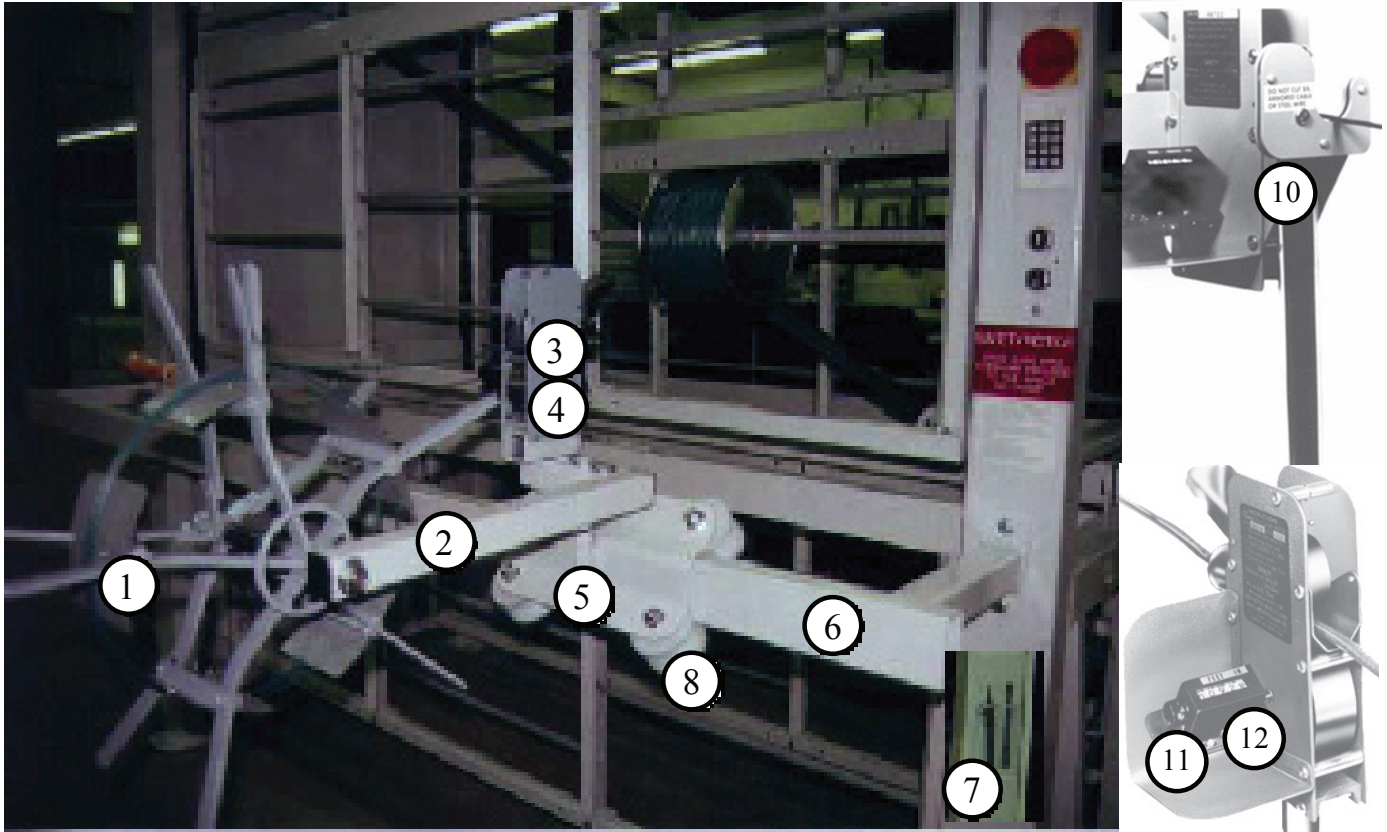
1. Carousel chain bolt.....2-47290
2. 7/16" lock nut.....004-0088
3. 7/16" washer (thin)..... 003-0015
4. 7/16" washer 003-0014

Wire Carousel components



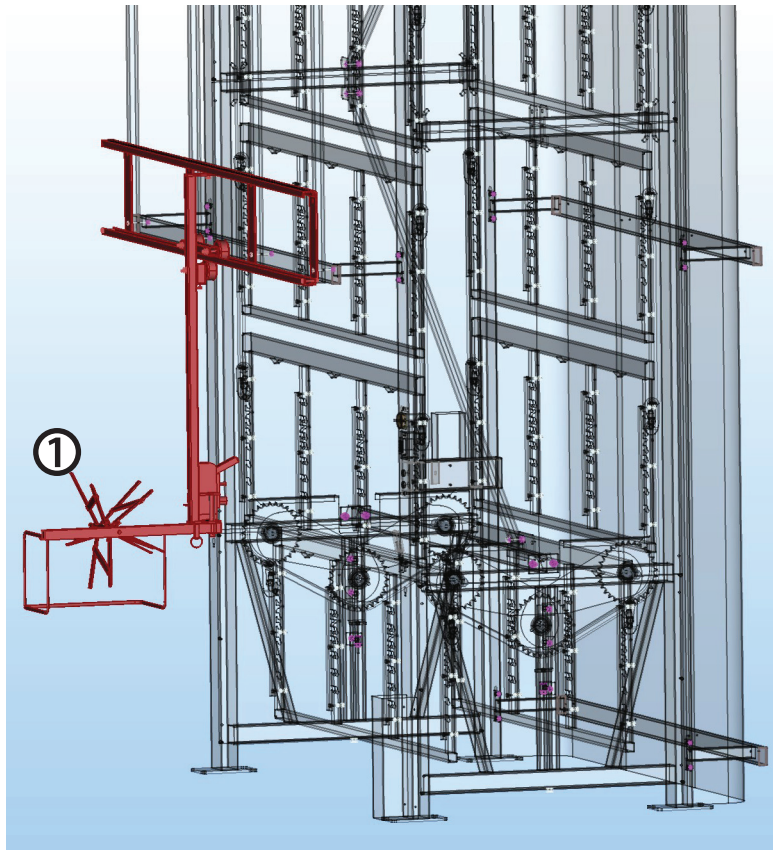
<u>Item #</u>	<u>Description</u>	<u>Part #</u>
1	Spinner brake lever left assembly	2-55293
	Spinner brake lever right assembly	2-55294
2	7 slotted divider	2-47383
3	8 slotted divider	111-0103
4	7 Slot divider vertical safety latch	2-44529
5	8 Slot divider vertical safety latch	111-0275

Wire meter lower style parts



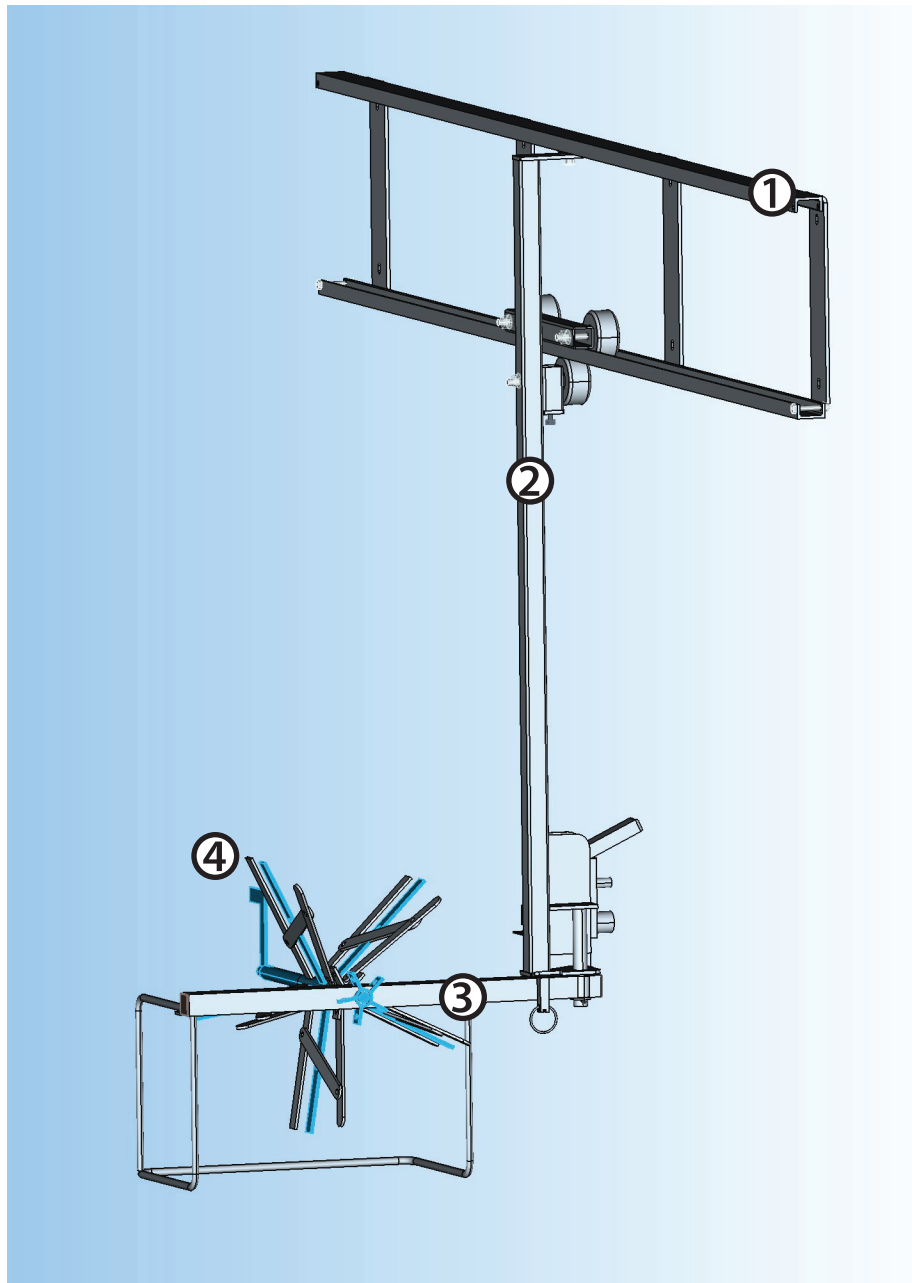
Item #	Description	Part #
1	Collapsible wire wind up spool (replaced as a set with item 5)	111-0090
2	Yellow cage lower [spool and counter pivot arm]	2-50483
3	Counter Hykon #1410 Imperial W64	402-0045
4	Counter Hykon #1420 metric	402-0044
	Counter Hykon #1420 metric CSA certified	402-0084
5	Lower wire meter trolley (replaced as a set with item 1)	2-50482
6	Lower wire mounting bar	2-47424
7	Wire loading wedges (new style)	2-49161
8	Lower trolley guide wheels [grooved]	2-51541
9	Radius plate for W99 reel (5 per pkg)	111-0339
<u>Wire meter packages</u>		
Items #s 1,2,3,5		2-50464
Item #s 2,4 and 5		111-0088
Item #s 1 and 3		402-0017
Complete upper set wire meter and re-wind kit items 1,2,3,5,6		2-0060
<u>Counter parts</u>		
10. Wire cutter attachment		111-0176
11. Counter (only) foot and inch		402-0047
12. Counter (only) metric		402-0052
<u>Re-winder parts</u>		
Re-winder lock--latch bar kit #808K		111-0168
Re-winder center shaft		111-0149
Re-winder wooden handle w/ shaft		111-0057

Wire meter slide components



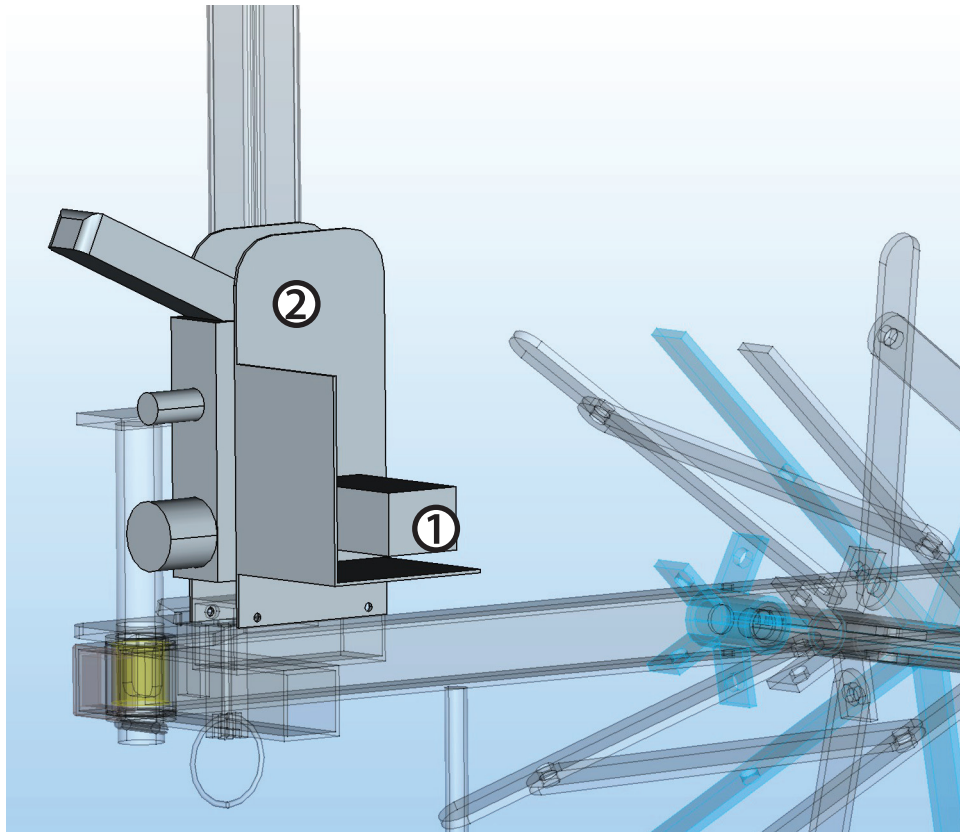
Item #	Description	Part #
1.....	Hanger_meter_slider	2-0060

Wire meter slide components



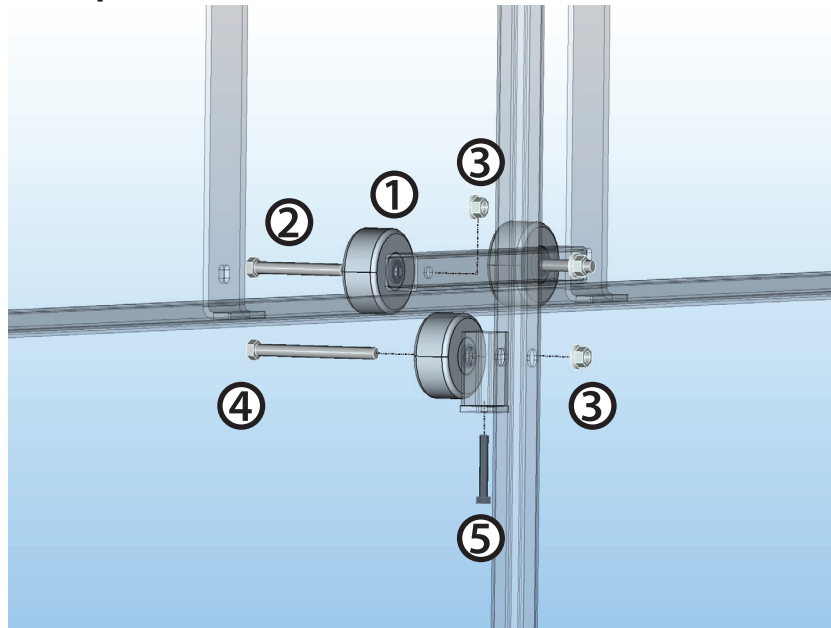
Item #	Description	Part #
1.....	Meter slider track weld	2-47271
2.....	Meter sldr vert weld.....	2-50274
3.....	Meter slider cage assembly.....	2-7000
4.....	Cable counter kit imp #w1700 w/ #10 reel.....	402-0087

Wire meter slide components

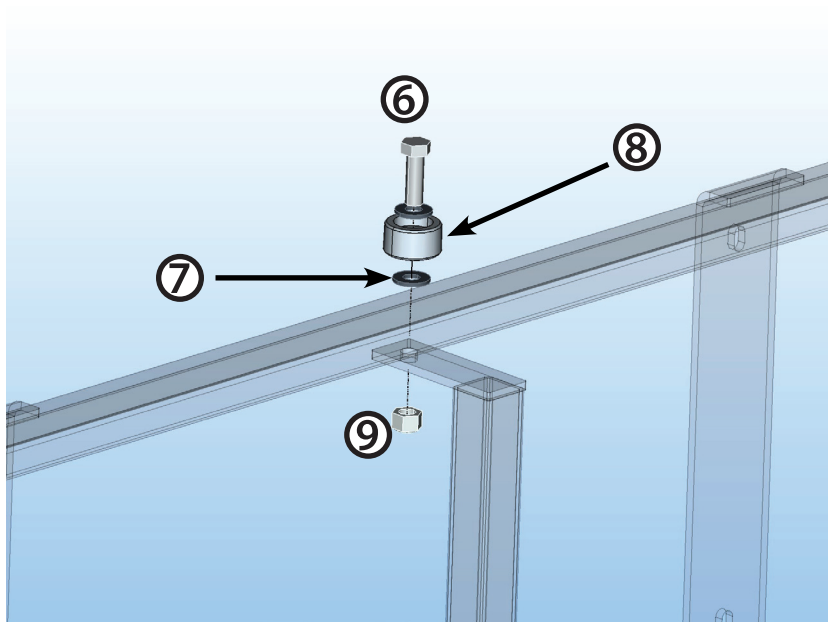


Item #	Description	Part #
1.....	Meter Counter.....	.....
.....	Imperial measure	402-0047
.....	Metric measure	402-0052
2.....	Hykon 1410 meter.....	.....
.....	Imperial measure- CSA certified.....	402-0083
.....	Imperial measure - non certified.....	402-0045
.....	Hykon 1420 meter.....	.....
.....	Metric measure - CSA certified.....	402-0084
.....	Metric measure - non certified.....	402-0044

Wire meter slide components



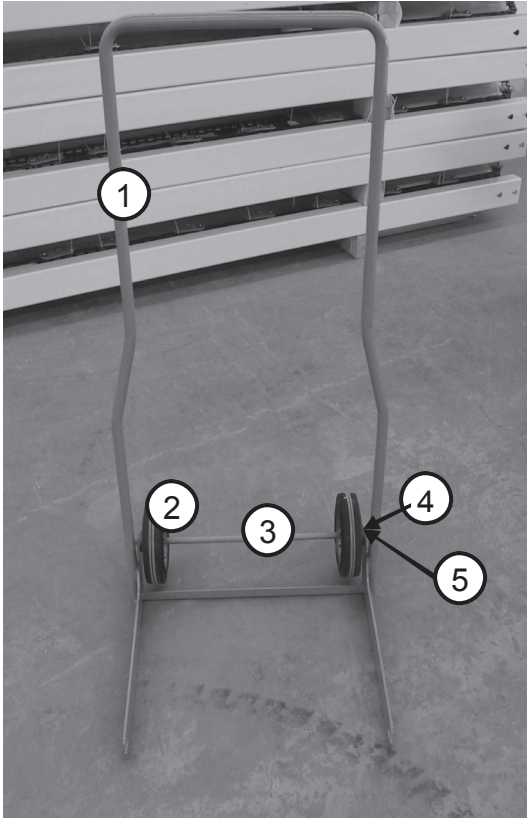
Item #	Description	Part #
1.....	Meter slider wheel asm.....	2-50273
2.....	1/2 X 4 hex bolt gr5 unc.....	001-0152
3.....	1/2 Flange nut gr5 unc.....	004-0017
4.....	1/2 X 5 1/2 hex bolt gr5 unc.....	001-0155
5.....	3/8 X 2 1/2 hex bolt full thrd.....	001-0229



6.....	1/2 X 1 1/2 hex bolt gr5 unc.....	001-0146
7.....	Wsh flat 1/2.....	003-0016
8.....	Top wheel meter slider.....	2-7500
9.....	1/2 Nylon lock nut gr5 unc.....	004-0046

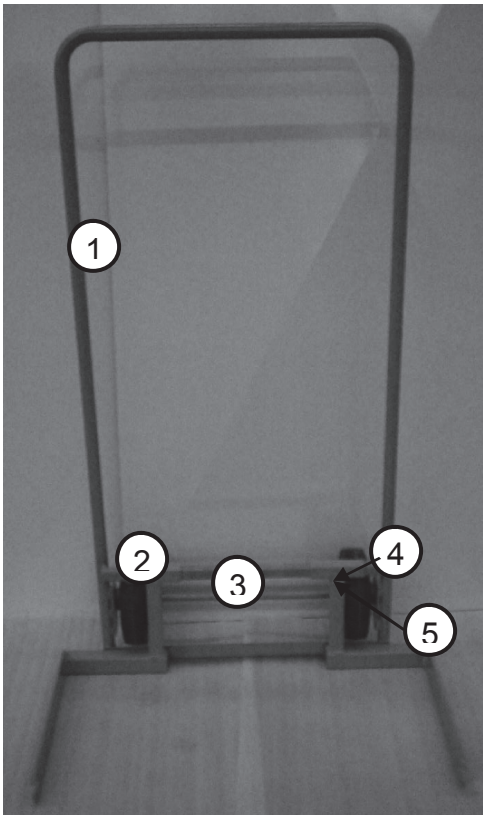
Wire Loading dolly

Two styles of Wire Loading dollies are available to load the rolls of wire on to the carrier frame. A fixed arm dolly and an adjustable arm dolly.



WCI

Item #	Description	Part #
1	Fixed arm wire loading dolly	WC1 or 2-49497
2	Wheel	104-0034
3	Wheel shaft (25" length)	2-43625
4	Roll pins	113-0029
5	Washers	003-0105

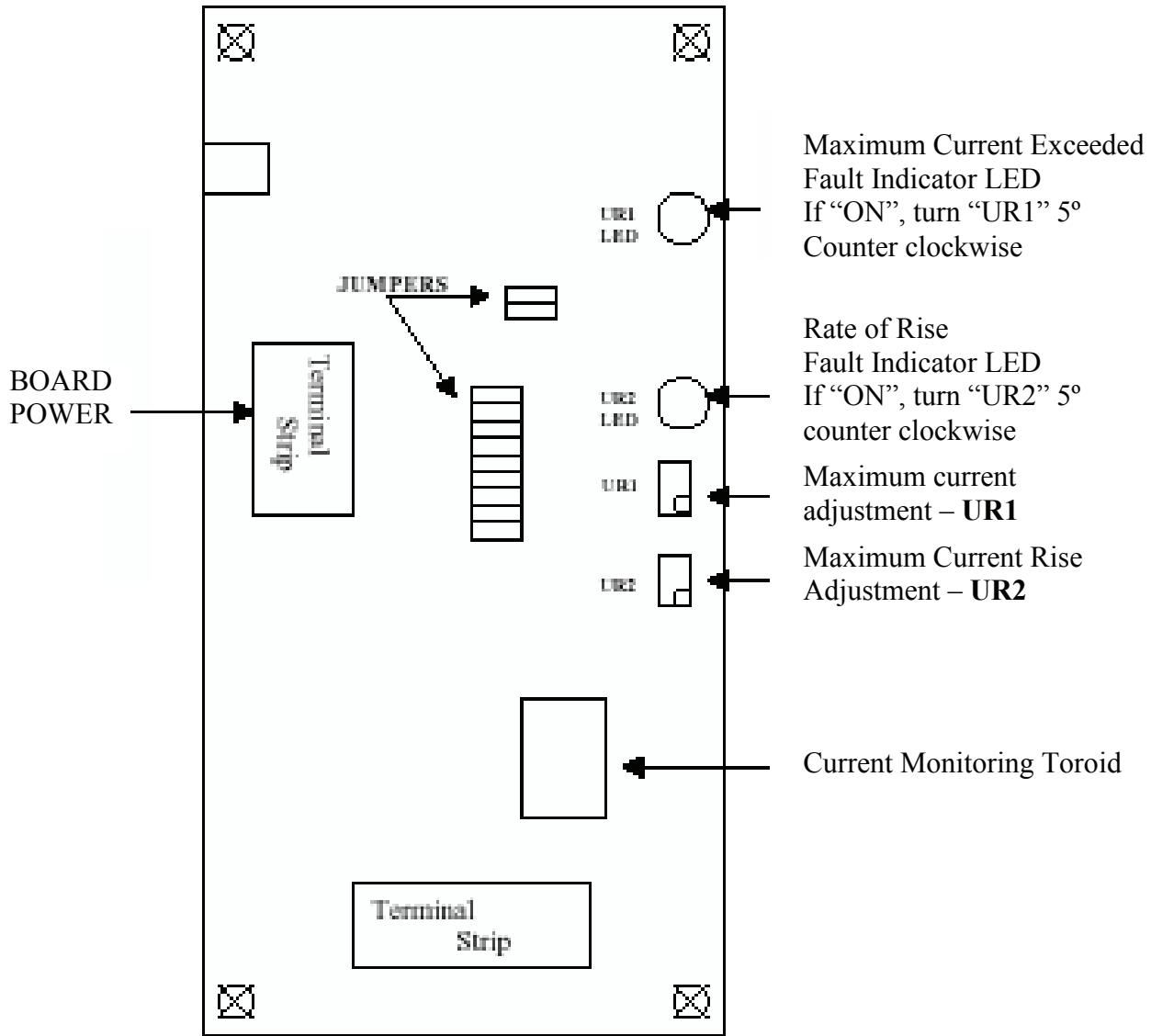


WCI-ADJ

Item #	Description	Part #
1	Adjustable arm wire loading dolly	WC1-ADJ
	.....or use part #	2-49496
2	Wheel	104-0034
3	Wheel shaft	
	..... old style 23" length	2-43633
	..... new style 25" length	2-43625
4	Roll pins	113-0029
5	Washers	003-0105

C.O.D.B. (Computerized Obstruction Detection Board)

Note: some of the older Wire Carousel were equipped with this Computerized Obstruction Detection Board. This device shuts off the carousel when there is a sharp rise in the current or if the over all amp draw is too high. When this trips the beeper comes on and the machine is dead. To activate the machine again just cycle the power switch. This device can be adjusted so that it will not trip so easily to do. To adjust, see the instructions below

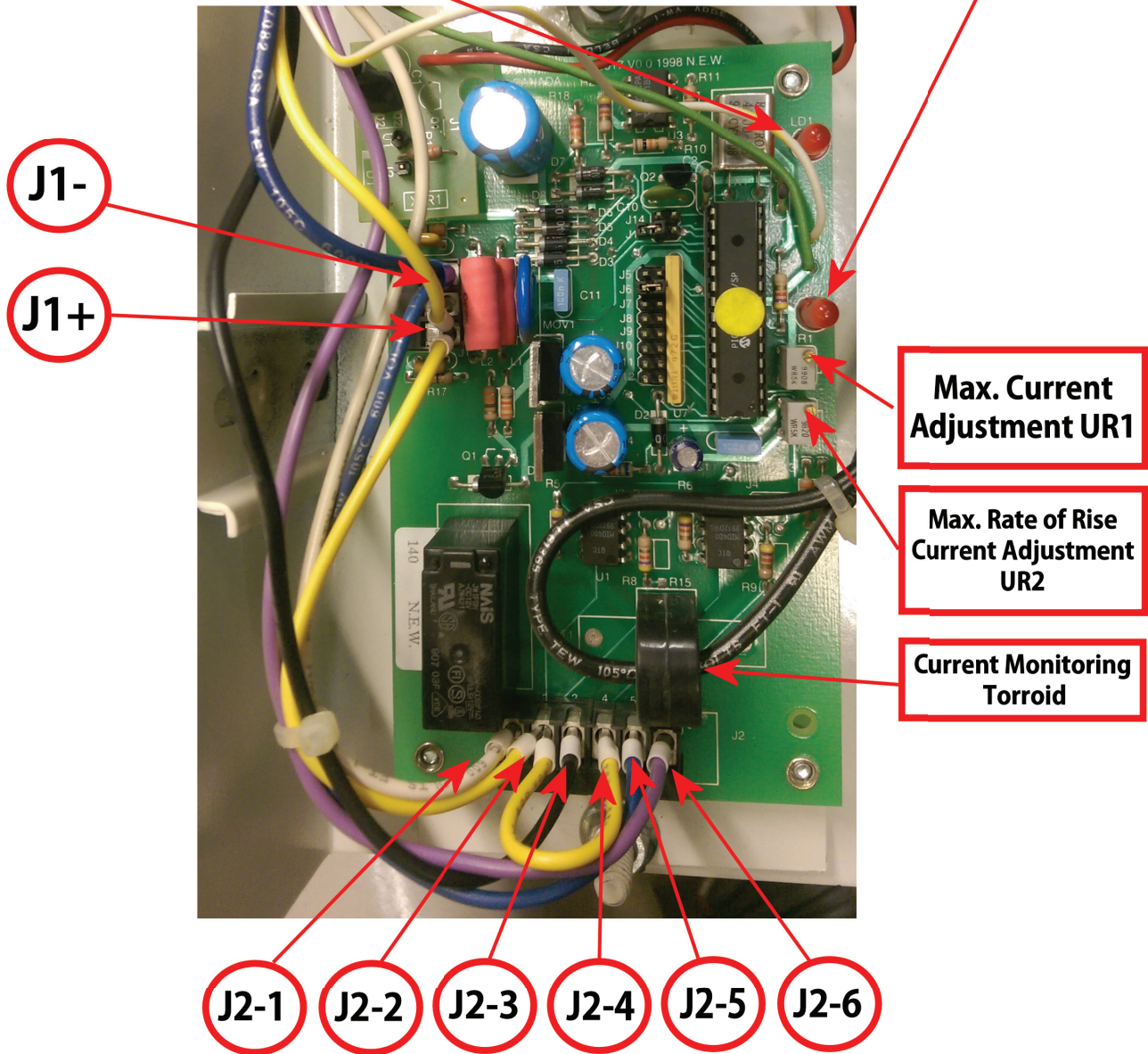


C.O.D.B. Illustrated

This device was used on model numbers WF12,WF13,WF14, and WF15. Eventually this device was removed as it was not deemed necessary for safe operation on the Wire Carousel. If need be the device can be removed from the circuit of the machine. (It is located at the far rear of the electrical tray.)

**Maximum Current Exceeded
Fault Indicator LED - if active,
turn UR1 counterclockwise
by 50**

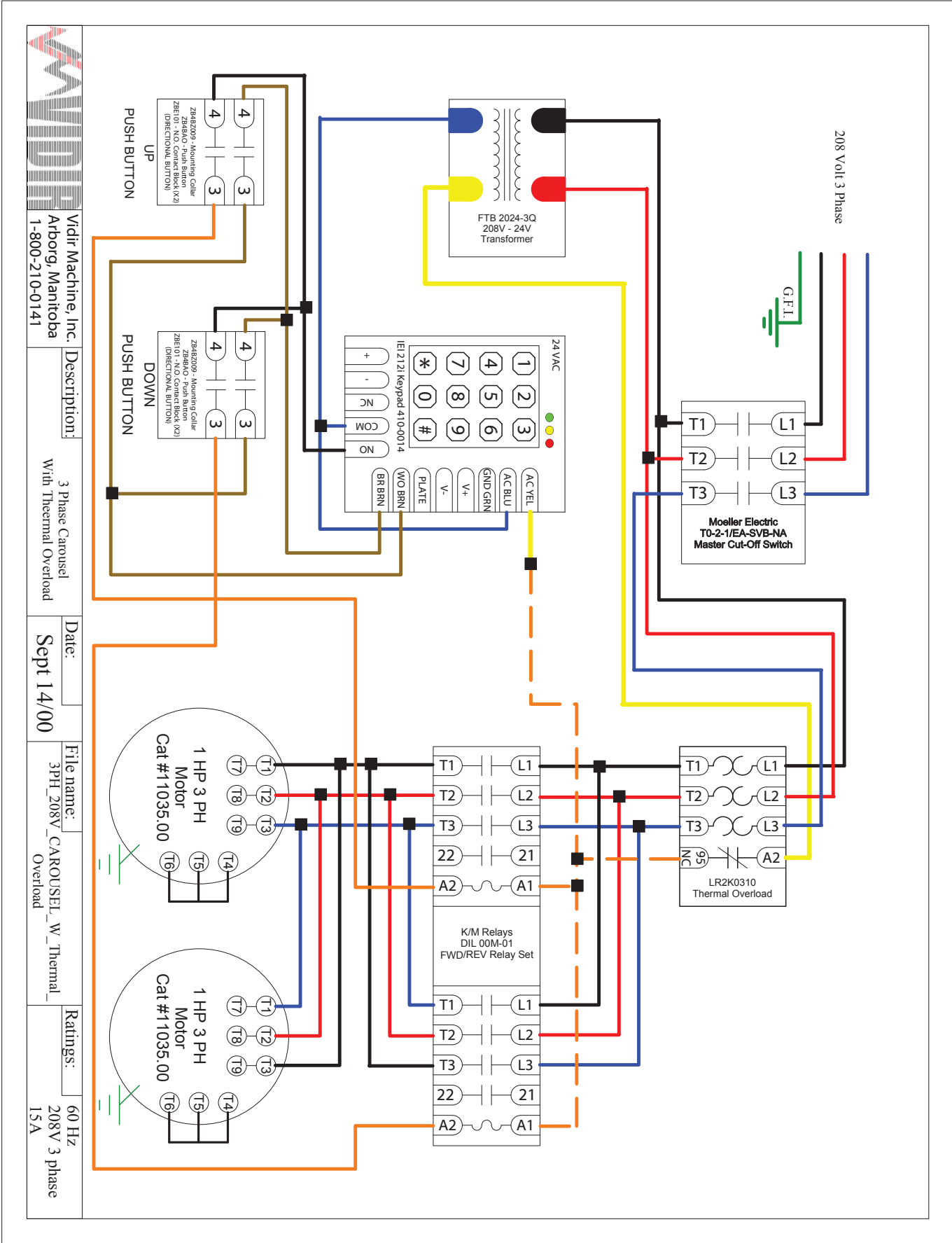
**Rate of Rise Fault Indicator
LED - if active, turn UR2
counterclockwise by 50**



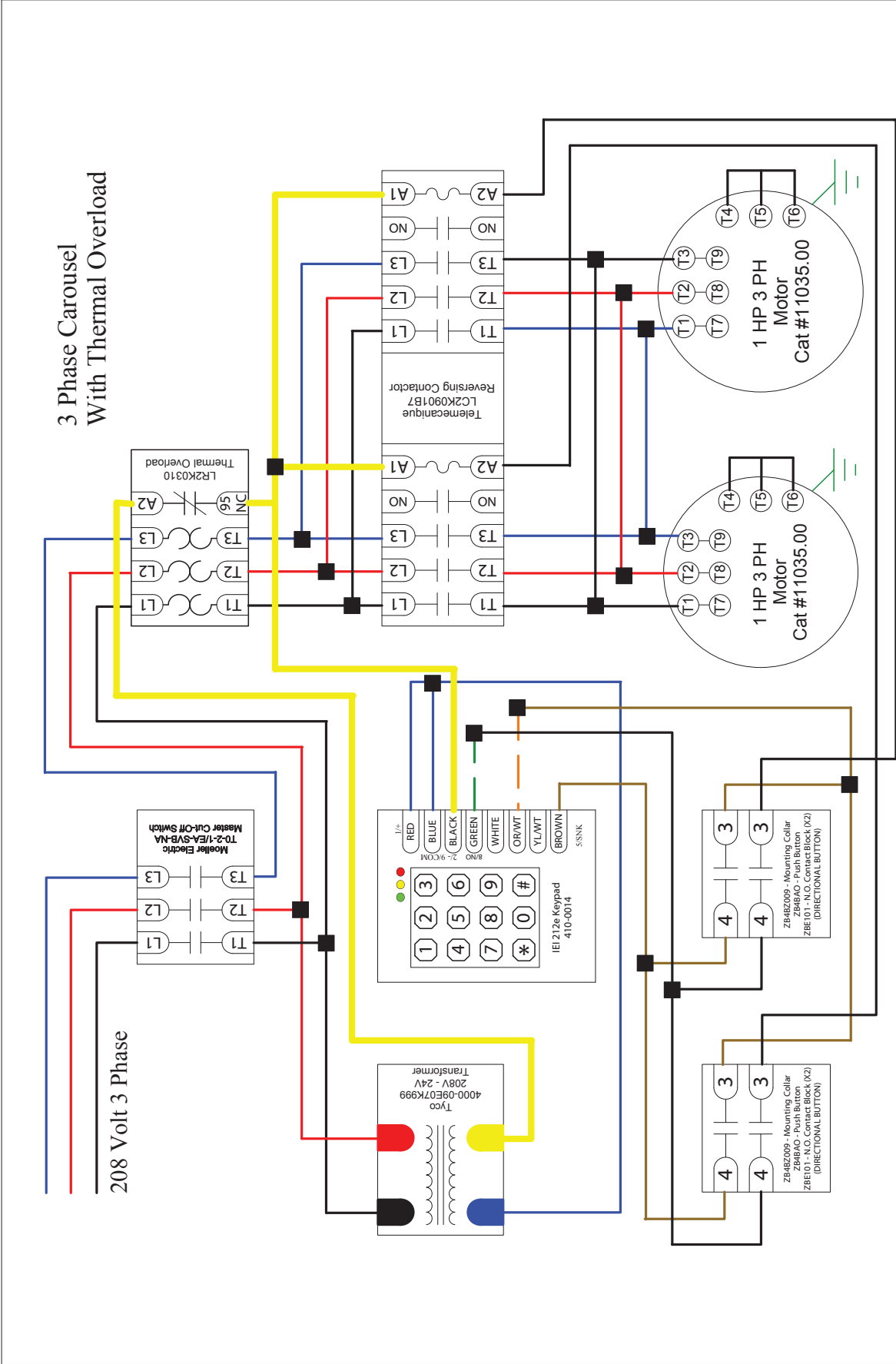
To bypass this board: remove the blue wire from J1 and the blue wire which leads to the keypad from J2-4 and join these two wires together

The remaining wires do not need to be removed as they are paralled to the up and down push buttons.

WIRING SCHEMATIC

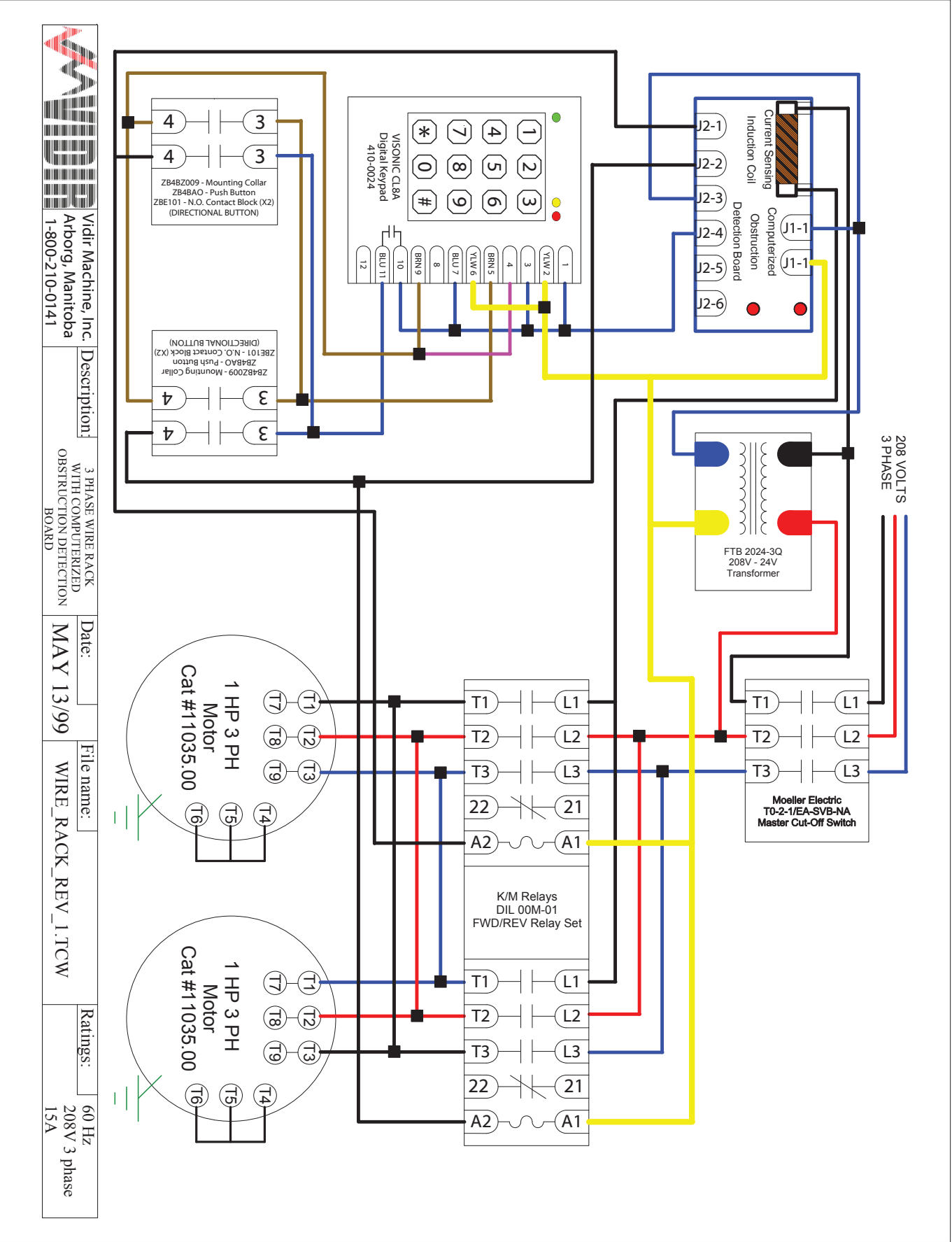


WIRING SCHEMATIC



 VIDIR vertical storage solutions	Vidir Machine, Inc. Arborg, Manitoba 1-800-210-0141	Description: 3 Phase Carousel W/ Thermal Overload	Date: Sept 14/00	File name: 3 Phase Standard Carousel 208V 0900_REV.tcw	Ratings: 60 Hz 220V 3 phase 15A
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WIRING SCHEMATIC



VIDIR
vertical storage solutions

Vidir Machine, Inc.
Arborg, Manitoba
1-800-210-0141

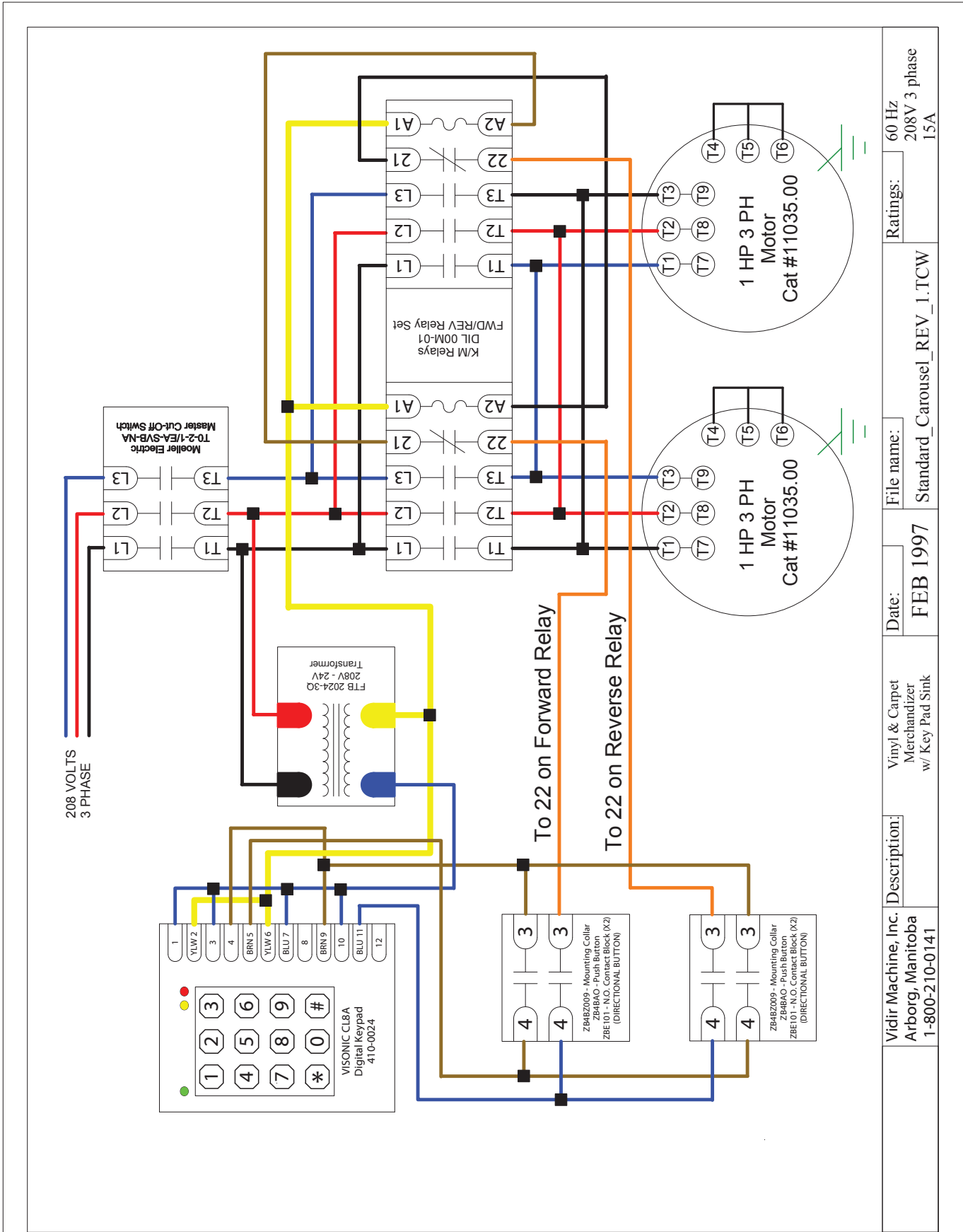
Description:
3 PHASE WIRE RACK
WITH COMPUTERIZED
OBSTRUCTION DETECTION
BOARD

Date:
MAY 13/99

File name:
WIRE_RACK_REV_1.TCW

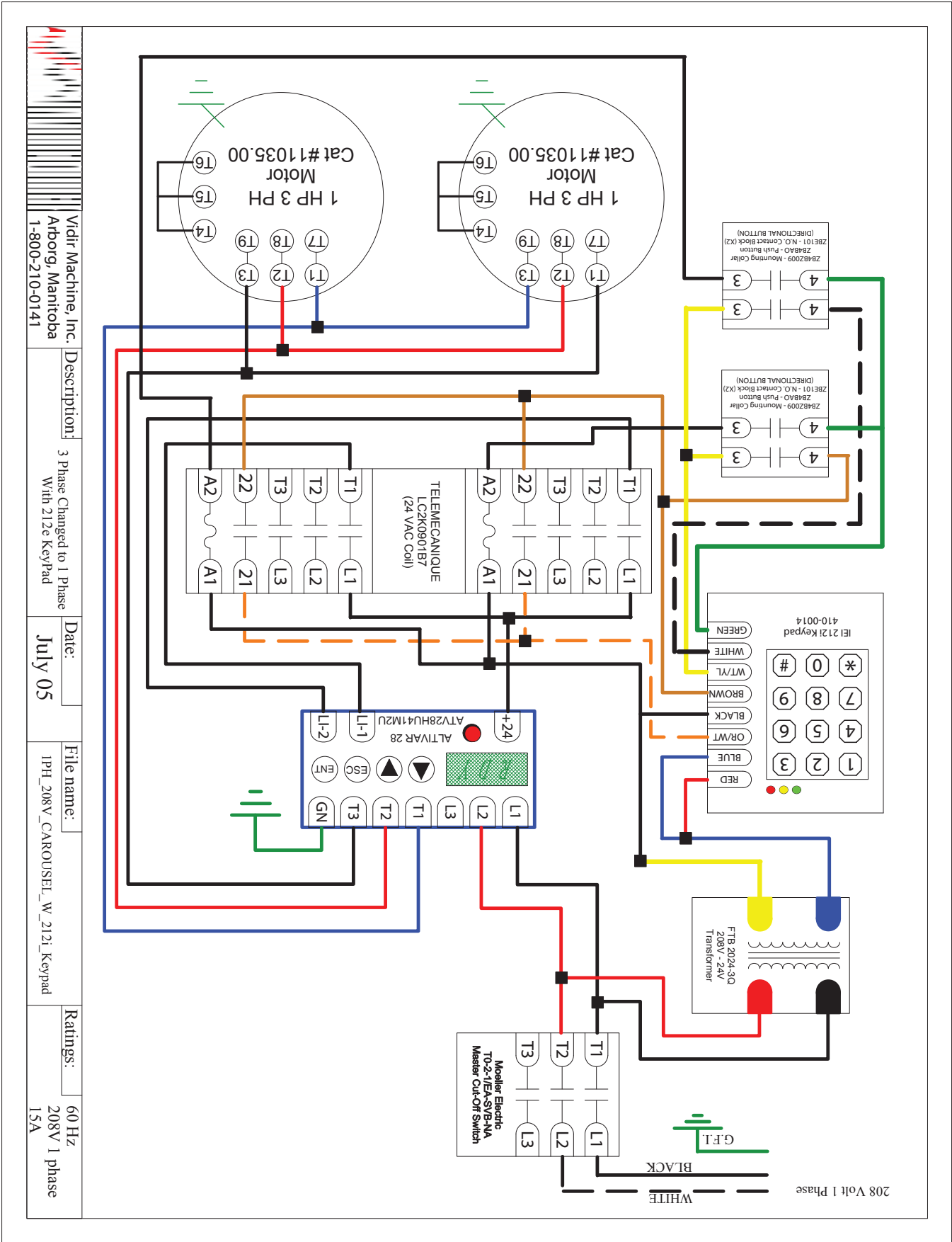
Ratings:
60 Hz
208V 3 phase
15A

WIRING SCHEMATIC



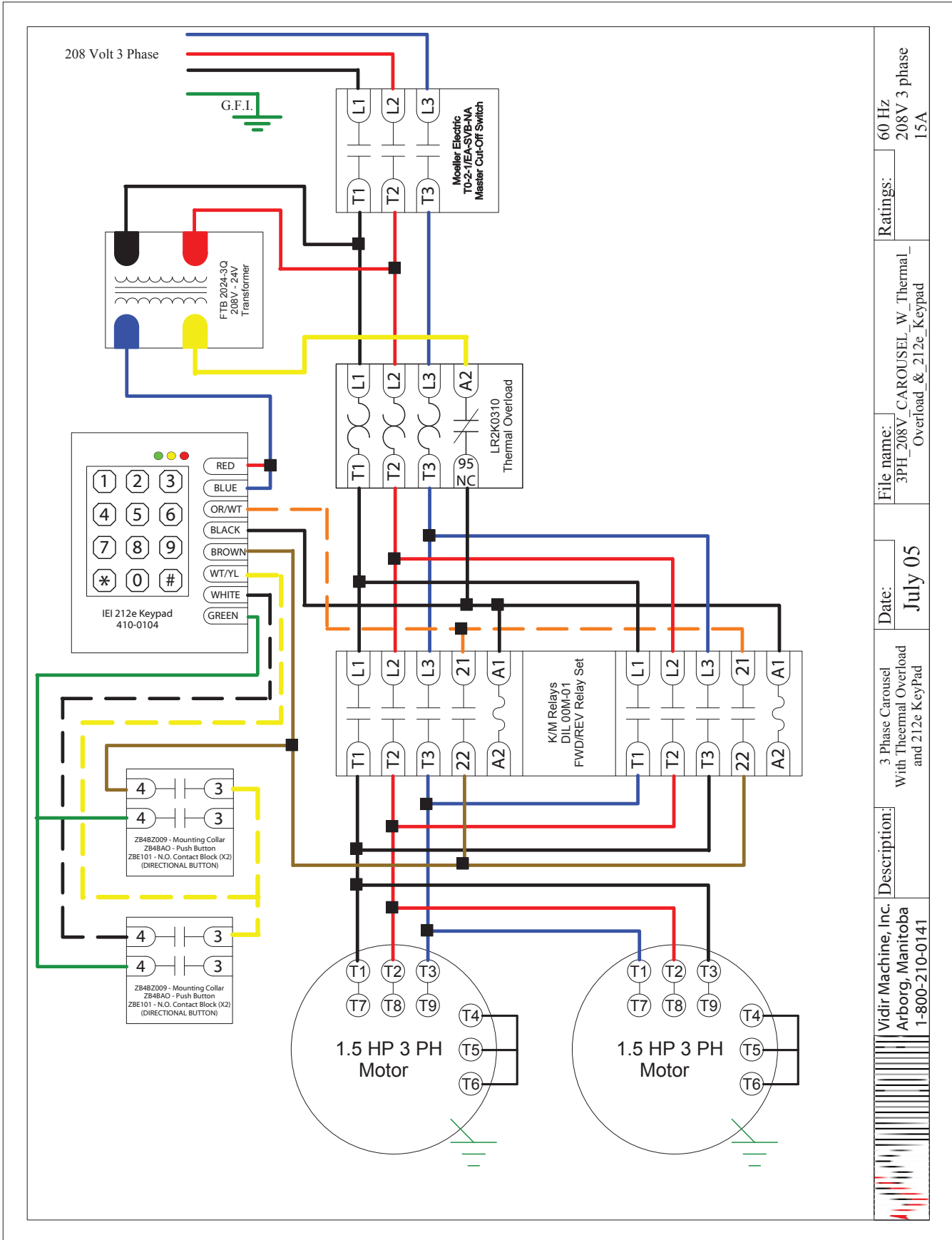
Vidir Machine, Inc. Arborg, Manitoba 1-800-210-0141	Description: Vinyl & Carpet Merchandizer w/ Key Pad Sink	Date: FEB 1997	File name: Standard_Carousel_REV_1.TCW	Ratings: 60 Hz 208V 3 phase 15A
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WIRING SCHEMATIC



Description: 3 Phase Changed to 1 Phase With 212e Keypad
Date: July 05
File name: IPH_208V_CAROUSEL_W_212i_Keypad
Ratings: 60 Hz, 208V 1 phase, 15A
Vidir Machine, Inc.
 Arborg, Manitoba
 1-800-210-0141

WIRING SCHEMATIC



Description:	3 Phase Carousel With Thermal Overload and 212e Keypad	Date:	July 05	File name:	3PH_208V_CAROUSEL_w_Thermal_Overload_&_212e_Keypad	Ratings:	60 Hz 208V 3 phase 1.5A
	Viclir Machine, Inc. Arborg, Manitoba 1-800-210-0141						

WIRING SCHEMATIC

**INSTRUCTIONS TO REPLACE A LAVTO
(NORMALLY CLOSED CONTACT #21 & #22)
WITH A CONTACTOR W/O A NORMALLY CLOSED CONTACT**

WITH NORMALLY CLOSED CONTACT

WITHOUT NORMALLY CLOSED CONTACT

FROM TRANSFORMER

REMOVE THIS WIRE

REMOVE THIS WIRE

REMOVE FROM TERMINAL 22 & CONNECT TO TERMINAL A2

UP BUTTON

DOWN BUTTON

FORWARD RELAY SWITCH

REVERSE RELAY SWITCH

K/M Relays
DIL 00M-01
(24VOLT COIL)T1 T2 T3 L1 L2 L3 A2 22 21 A1

TELEMECANIQUE
LC2K0901B7
(24 VOLT COIL)
T1 T2 T3 L1 L2 L3 A2 14 13 A1

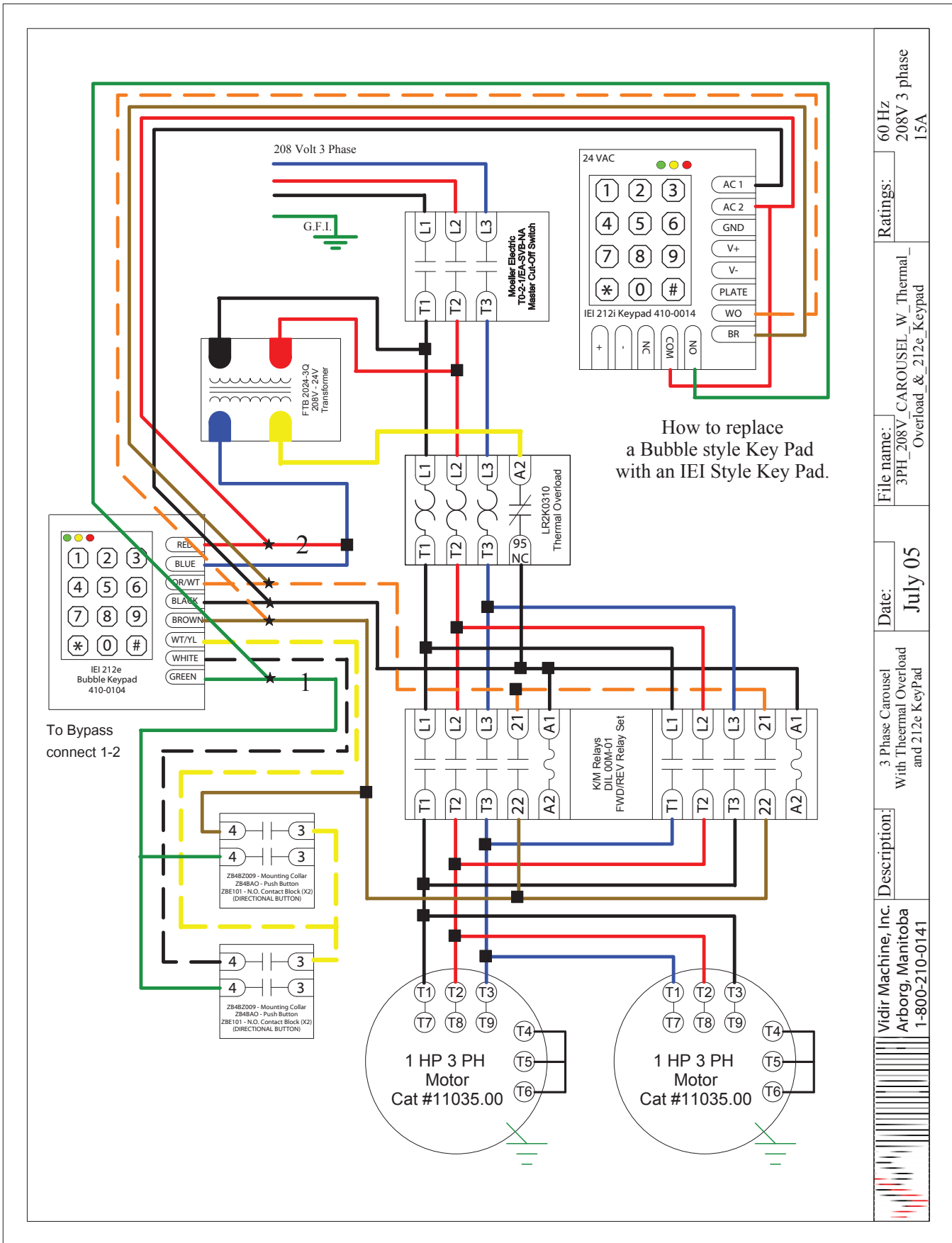
ZM8Z009 - Mounting Collar
ZBE (01 - N.O. Contact Block, X2)
DIRECTIONAL BUTTON

ZM8Z009 - Mounting Collar
ZBE (01 - N.O. Contact Block, X2)
DIRECTIONAL BUTTON

FROM TRANSFORMER

	<p>Vidair Machine, Inc. Arborg, Manitoba 1-800-210-0141</p>	<p>Description: Instruction to replace NC Relay w/ NO Relay</p>	<p>Date: Sept 05/2001</p>
		<p>File name: INSTRUCTION_TO_REPLACE_A_LAVTO_REV_1</p>	
		<p>Ratings: 60 Hz 208V 3 phase 15A</p>	

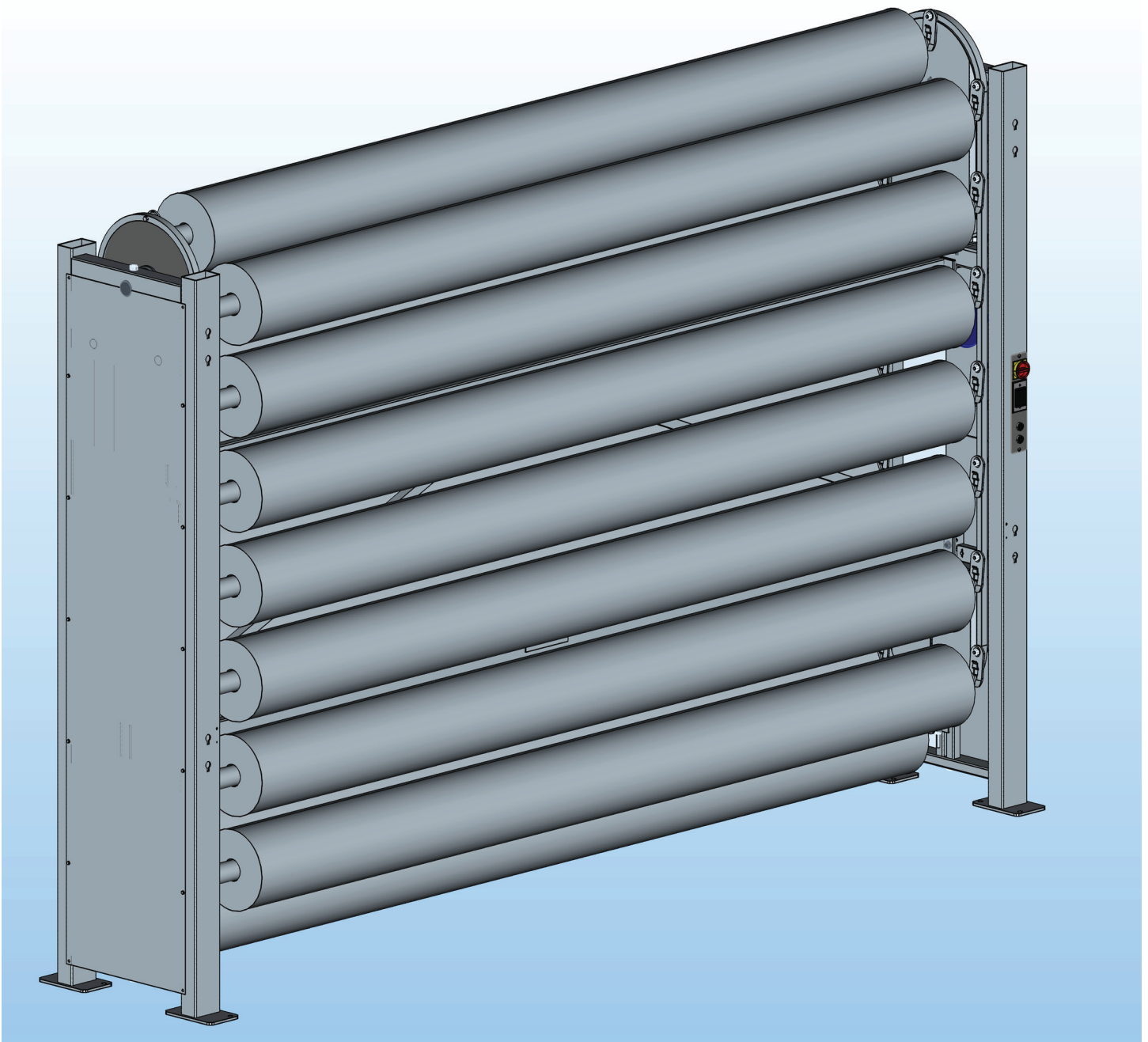
WIRING SCHEMATIC



File name:	3PH_208V_CAROUSEL_w_Thermal_Overload_&_212e_Keypad
Date:	July 05
Description:	3 Phase Carousel With Thermal Overload and 212e KeyPad
Ratings:	60 Hz 208V 3 phase 15A
Vidir Machine, Inc. Arborg, Manitoba 1-800-210-0141	

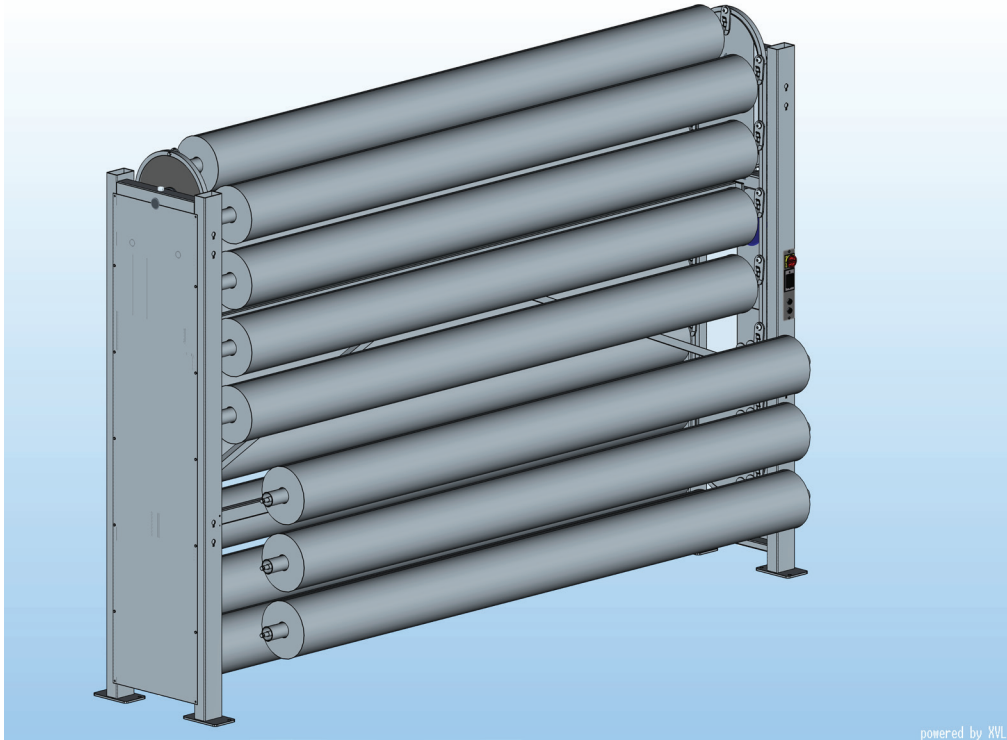
B20/24 SLIM TOWER CAROUSEL

Service Manual

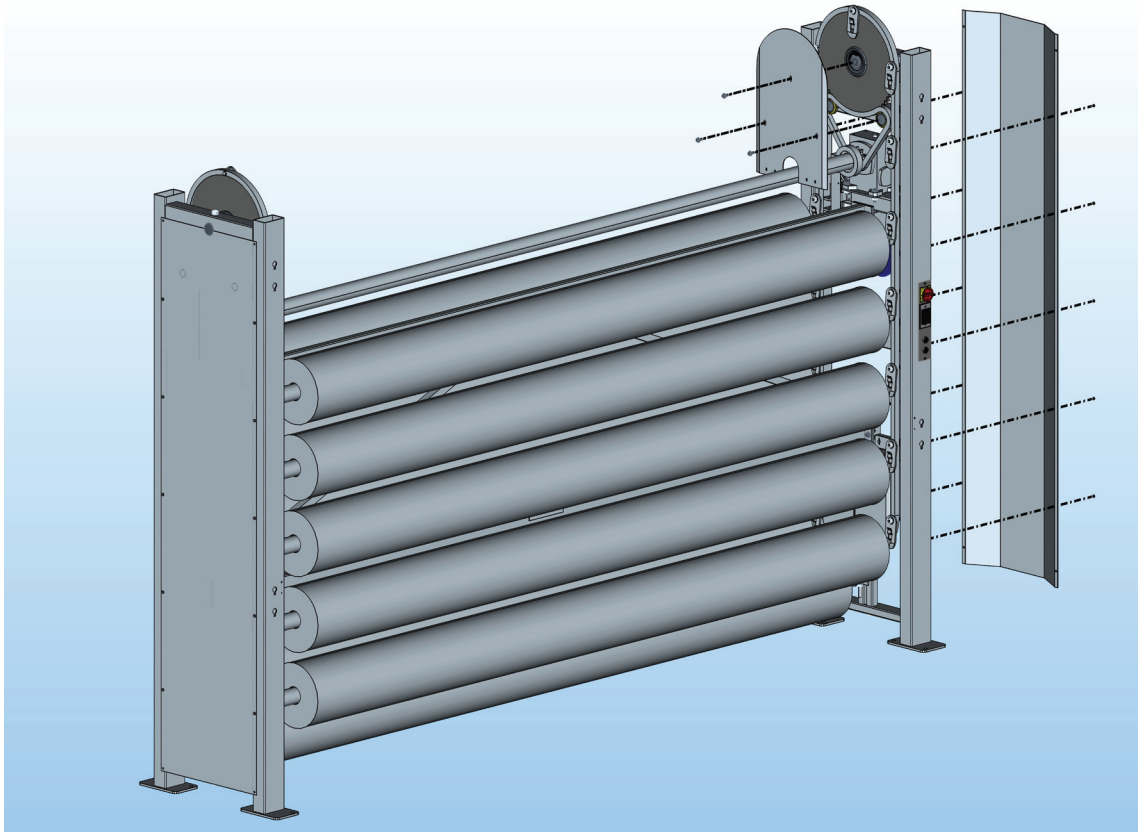


MAINTENANCE

1. Remove a minimum of 3-5 rolls of carpet.

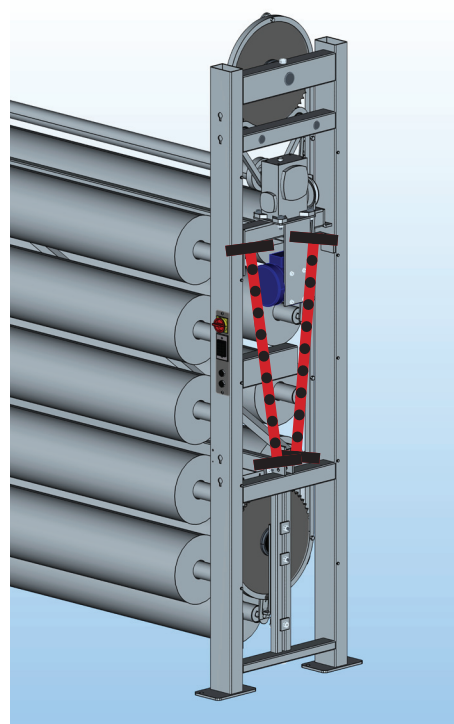
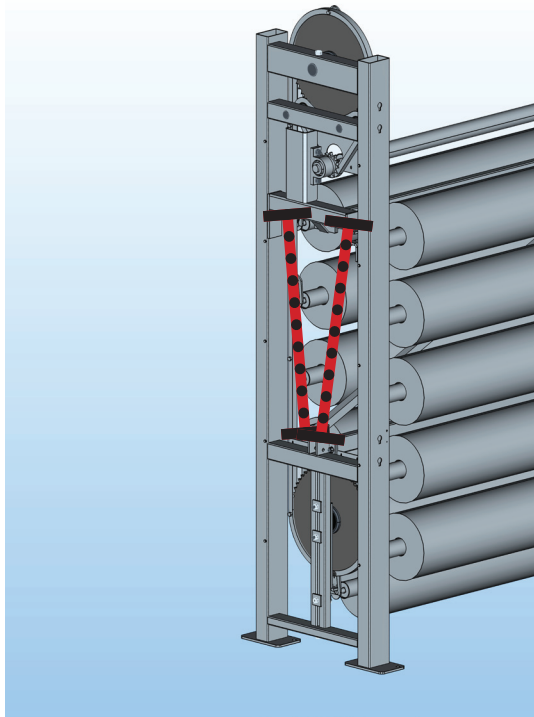


2. Rotate the carousel to the point where the 3-5 empty rolls are at the top the machine to expose the inside top chain cover. Remove chain and motor cover. Turn off power, and lock out the carousel.



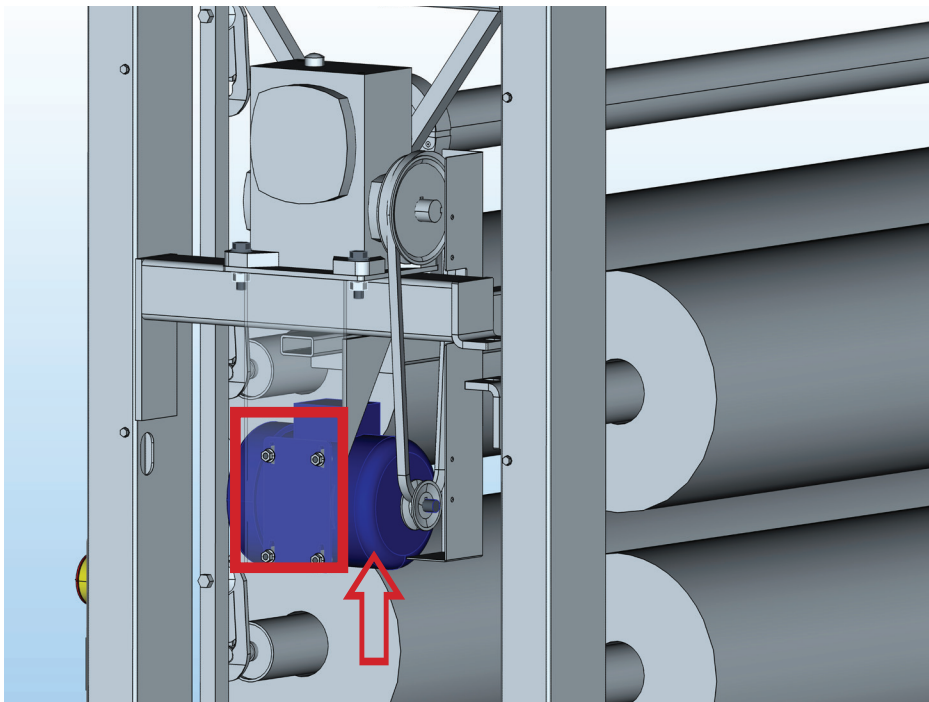
MAINTENANCE

3. Anchor left and right load chain to carousel towers in the front and back using appropriate ratchet straps



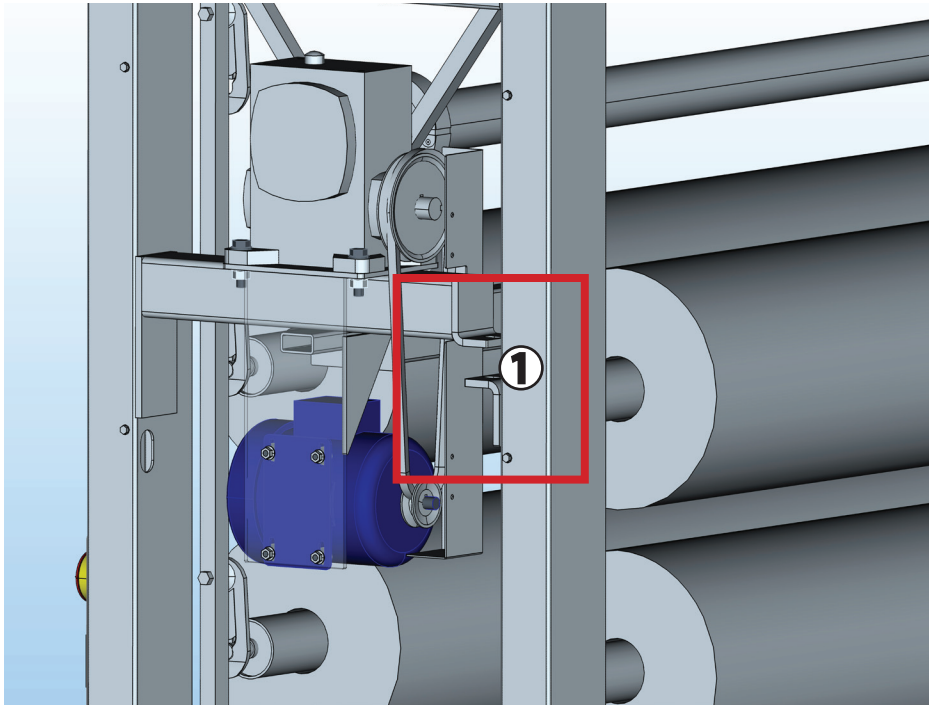
TO ENSURE SAFETY, IT IS EXTREMELY IMPORTANT TO SECURE BOTH TOWERS OF THE CAROUSEL BEFORE PROCEEDING TO KEEP IT FROM MOVING.

4. Loosen 4 motor mounting bolts, and slide motor upward. Re-fasten 2 bolts to hold motor temporarily in place,

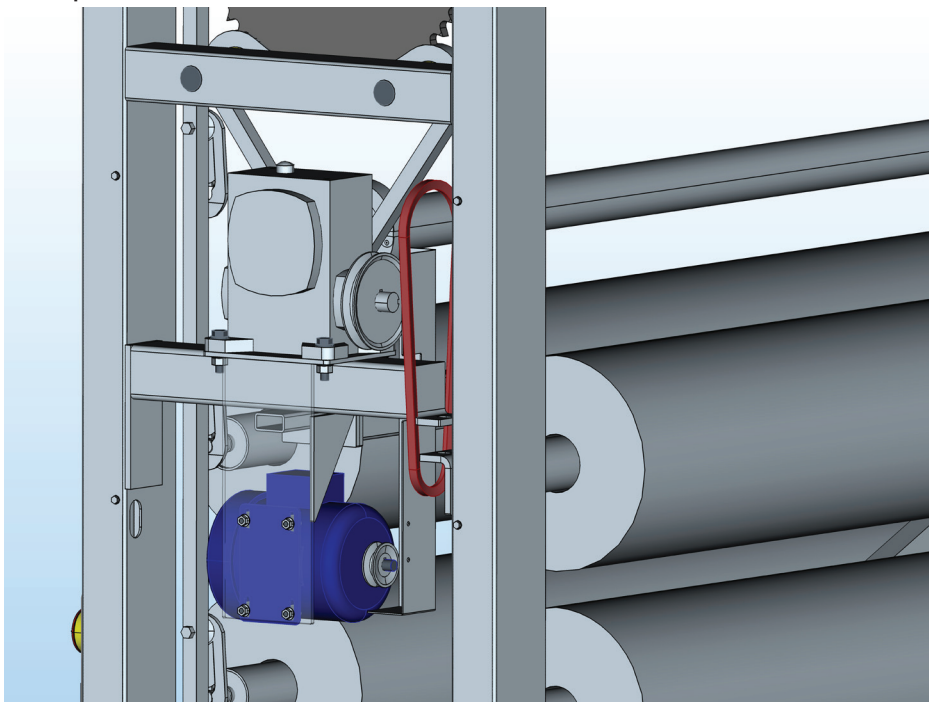


MAINTENANCE

6. Loosen and remove drive chain tensioning bolt (1).



7. Remove and replace motor belt.



8. Re-tighten drive chain tensioning bolt (1). Loosen 2 motor bolts, slide motor down. Tighten all 4 motor bolts, and ensure motor pulley is aligned with gearbox pulley.

MAINTENANCE

9. Secure all bolts, and replace belt cover.
10. Ensure rollers (carriers) are not off level.
11. Remove ratchet straps from left and right tower load chains.
12. Ensure rollers (carriers) are level, and test run Carousel.

WARRANTY & LIABILITY

Vidir Machine Inc. Warranty Agreement and Limitation of Liability

1. Vidir Machine Inc. ("Vidir") warrants solely that the equipment shall be free from any defect due to faulty workmanship or material deficiency at the time of delivery to the buyer thereof (the "Buyer") and for a period of one year therefrom.
2. All work except minor repairs or adjustments to the equipment furnished on an emergency basis, will be performed during regular working hours. If the Buyer requests that repair work be performed outside of regular working hours, it is the responsibility of the Buyer to pay the difference between regular and premium labour rates at the then standard hourly billing rate.
3. This warranty shall be voided by any modifications to the equipment or any use of the equipment for any purpose other than that for which it was specifically intended.
4. This warranty is the only warranty made by Vidir. The Buyer hereby expressly waives any obligations or liability, including liability for loss or damages due directly or indirectly, any obligations including, without limitation, loss of use, revenue, or profit, shipping and handling, and injury to person or property.
5. It is the responsibility of Buyer to know, understand and comply with the work and safety laws and regulations in effect and governing Buyer's use of the equipment. To the extent governing law requires inspections, records keeping and/or after-purchase modifications to the equipment, it is the responsibility of the Buyer to arrange for and comply with such requirements and any associated costs are the sole responsibility of the Buyer. Vidir assumes no responsibility or liability for Buyer's performance under or compliance with such laws and regulations.
6. If the equipment is found by the Buyer to be defective, the Buyer must notify Vidir within a period of 30 days of discovery of the defect.
7. The Buyer is expected to provide access to all equipment covered by this warranty. Vidir shall not be responsible for any expense incurred in removing, replacing, or refinishing any part of the building structure necessary for the performance of Vidir's obligations under this warranty.
8. In the event that any alterations, additions, adjustments or repairs are made by others without Vidir's prior written consent, Vidir may, at its option, immediately terminate this warranty by providing written notice to the Buyer.
9. In the event Vidir is required to make emergency calls, repairs and/or replacements under this warranty occasioned by the Buyer or any user's negligence, improper operation or misuse of the equipment or by fire, explosion, flooding, the elements, strikes, labour troubles, vandalism, riots or civil commotion, or by any cause beyond Vidir's control. The Buyer shall reimburse Vidir for such emergency calls, repairs and/or replacements in accordance with the then current rates for such services.
10. Vidir's liability for injury to persons or property shall, in any event, be limited to that caused directly by its negligence. Vidir shall not be liable, however, on any account, for any damage or loss to the Buyer or its dealers, representatives, affiliates or agents resulting from business interruption, inconvenience, loss of profits, or special or, indirect or consequential damage. Vidir shall not be deemed to guarantee or warrant the continuing operation or operating efficiency of the equipment covered, nor shall Vidir be liable for any breakdowns thereof or for any damage to any other property of the Buyer not covered by this warranty but resulting from any breakdowns in or operating mishaps of the equipment covered.
11. Should any payment due by the Buyer become thirty days or more delinquent, Vidir may terminate this warranty by written notice, and all moneys owed Vidir shall be immediately payable on demand.
12. This warranty is not transferable or assignable by the Buyer.
13. Vidir reserves the right to determine, in its sole and absolute discretion the best means and methods to be employed for any corrective or repair work deemed necessary by Vidir pursuant to this warranty.