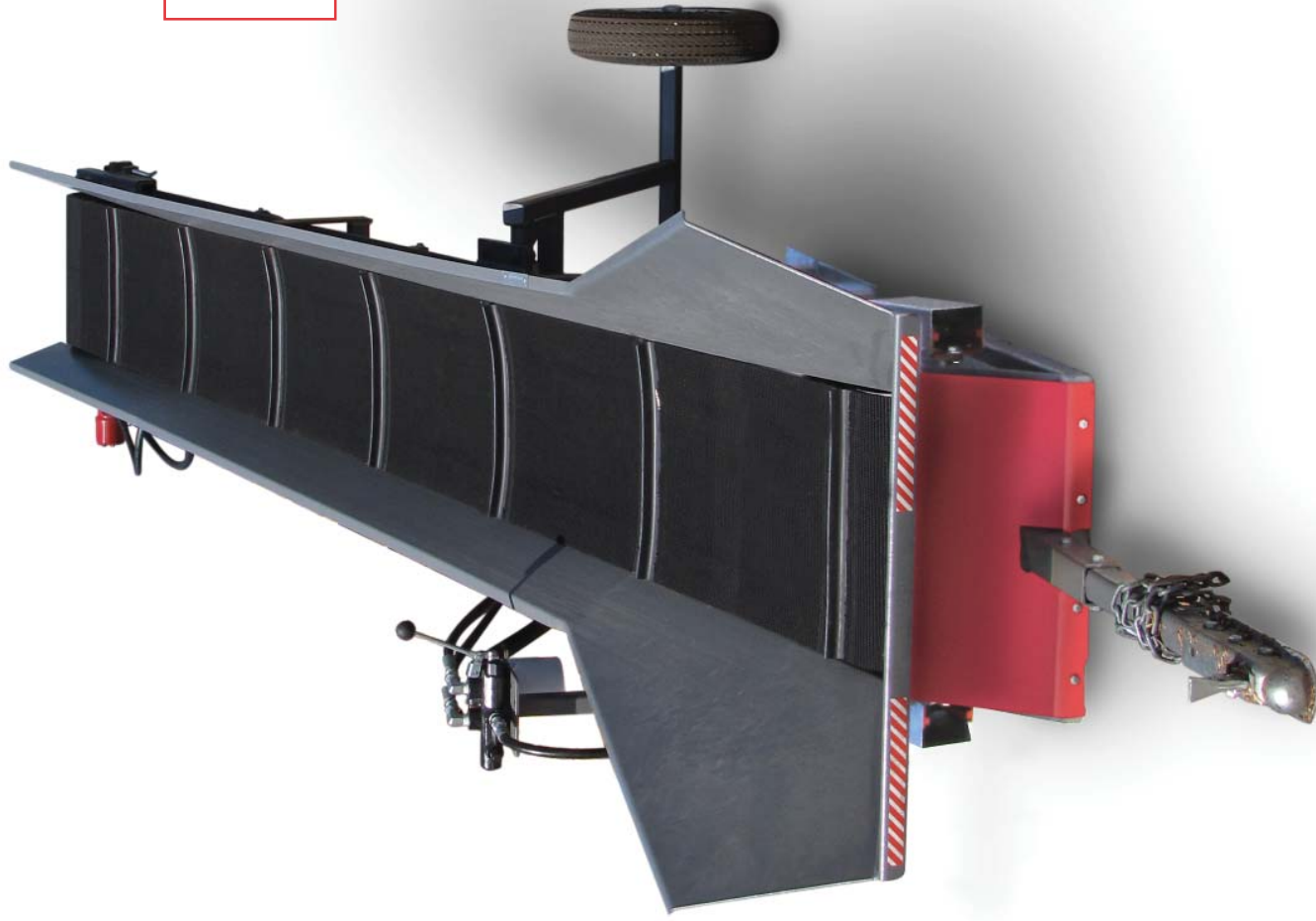




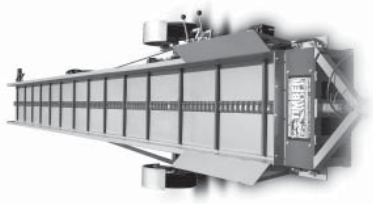
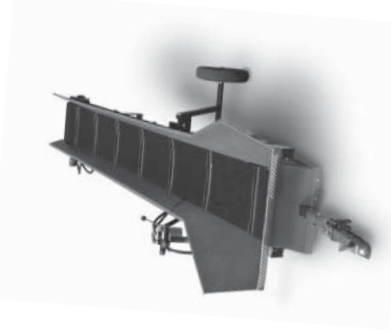
OPERATOR'S MANUAL

TW-C12, TW-C20, TW-C24,
TW-C26, TW-C30HD

Commercial Grade
Conveyors



www.timberwolfequip.com



TW-C12, TW-C20, TW-C24, TW-C26, TW-C30HD Commercial Grade Conveyor Operation Manual

Fill out and submit registration form to ensure warranty coverage and receive product updates.

Register online at www.timberwolfequip.com/warranty.html

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Timberwolf Firewood Processing Equipment

Record your firewood conveyor ID numbers here:

Model # _____ Serial # _____

Engine # _____ VIN # _____

Timberwolf Firewood Processing Equipment

2235 Clarks Corners Road
Marathon, NY 13803

Toll Free: 800-340-4386

E-mail: info@timberwolfequip.com
www.timberwolfequip.com

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The information in this document reflects current or planned product features, functions, and characteristics as of the publication date. Because of on-going product improvements and feature additions, information in this document is subject to change without notice.

Revised February 15, 2018

Every effort has been made to ensure the accuracy of this document.

About This Manual

Thank you for buying a Timberwolf firewood conveyor. This machine is made with high quality components and will provide years of service under normal working conditions.

Please study this manual before operating the unit as it contains important information relating to safety, operation and maintenance. Timberwolf Firewood Processing strongly suggests you keep it safely stored.

If you have questions regarding anything outlined in this manual, please call Timberwolf at **1-800-340-4386**.

Read Entire Manual Before Operating the Firewood Conveyor

Safety Note



Please take time to read this manual and learning how to operate and maintain your firewood conveyor safely. If you have any questions regarding assembly, use, safety, or maintenance, please call Timberwolf at 1-800-340-4386. This **firewood conveyor** is a powerful piece of equipment that can generate over 2,000 pounds of force. **Incorrect use of the firewood conveyor can cause serious injury or death.**

Caution! Residual Hydraulic Energy!



Residual energy must be released from the pressurized hydraulic fluid before any maintenance or repair work is done on the firewood conveyor. Hydraulic fluid can remain highly pressurized even while the conveyor's motor is off. Escaping pressurized hydraulic fluid can penetrate skin and cause serious injury.

To release residual hydraulic energy:

- 1. Shut off engine
- 2. Move control valve back and forth, from one limit of travel to the other, at least four times
- 3. Hold valve for three seconds at each limit of travel

Attention Rental Companies

It is extremely important that any person who operates this equipment has access to and has read the operator's manual. Timberwolf Firewood Processing Equipment strongly urges you to keep the manual with the conveyor at all times, and to instruct all persons who will operate this machine to read the manual.

Table Of Contents

Safety	
Hydraulic Safety.....	1-2
C12, C20, C24, C26 Decal Locations.....	3
C30HD Decal Locations.....	4
General Information	
General.....	5
Set Up and Take Down	
Overview.....	6
Set Up Procedures.....	6
Take Down Procedures.....	6
Set Up Procedures.....	7
Work Area Layout.....	7
New Location Set Up.....	7-8
C12, C20, C24, C26 Height Adjustment.....	8
C30HD Height Adjustment Overview.....	9
C30HD Hydraulic Height Adjustment.....	10
Processor Hydraulic Power.....	10-11
Take Down Procedures.....	11
C12, C20, C24, C26 Lowering the Conveyor.....	11-12
C30HD Lowering the Conveyor.....	12
C12, C20, C24, C26 Tow Vehicle Hookup.....	13
C30HD Tow Vehicle Hookup.....	14
Operating Instructions	
Start Up Procedure.....	15
Hydraulic Start Up.....	16
Operation.....	16
Maintenance	
General.....	17
Periodic Maintenance.....	17
Conveyor Belt Adjustment (C12, C20, C24, C26).....	18
Conveyor Chain Adjustment (C30HD).....	19
Specifications20	
Limited Warranty	21-22
Maintenance Log	23-24

Hydraulic Safety



WARNINGS

Escaping pressurized fluid from hydraulic system leaks can have enough force to penetrate skin and cause serious injury or death. Hydraulic fluid can remain highly pressurized while conveyor motor is off. Never use your hand or any part of your body to check for hydraulic system leaks while the system is pressurized.

Get professional medical help at once if hydraulic oil penetrates anyone's skin. Always release residual energy from pressurized hydraulic fluid before doing any maintenance or repair work on the conveyor.

What You SHOULD Do

- Inspect hydraulic hoses every day – check for worn, frayed, kinked, and cracked areas
- Replace any damaged or worn hoses
- Use sheet of cardboard or piece of wood to check for hydraulic leaks while system is running
- Depressurize system to release residual hydraulic energy before starting any repairs
 1. Shut off engine
 2. Move control valve handle back and forth, from one limit of travel to the other, at least four times
 3. Hold valve for three seconds at each limit of travel
- Contact Timberwolf or an authorized Timberwolf dealer to replace worn components

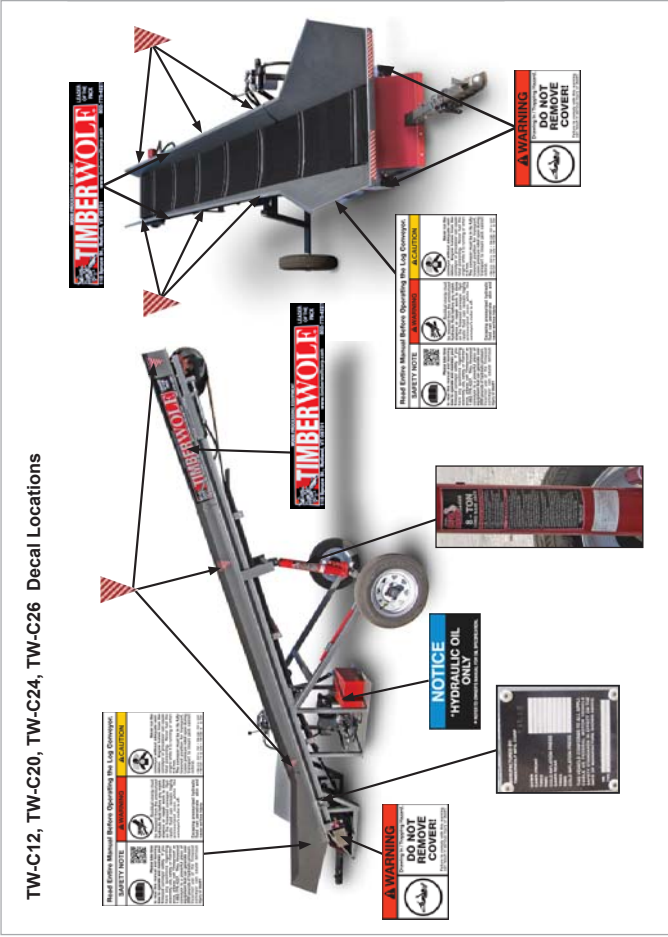
Hydraulic Safety

What You SHOULD NOT Do

- Do not make any adjustments to the pressure relief valve.
- Never remove cap from hydraulic tank while motor is running or while tank is still warm after motor is shut off. Hot pressurized oil can cause serious injury, so wait for hydraulic tank to cool before removing cap.
- Never use any connectors, valves, or fittings that are different from the ones originally installed on the conveyor.

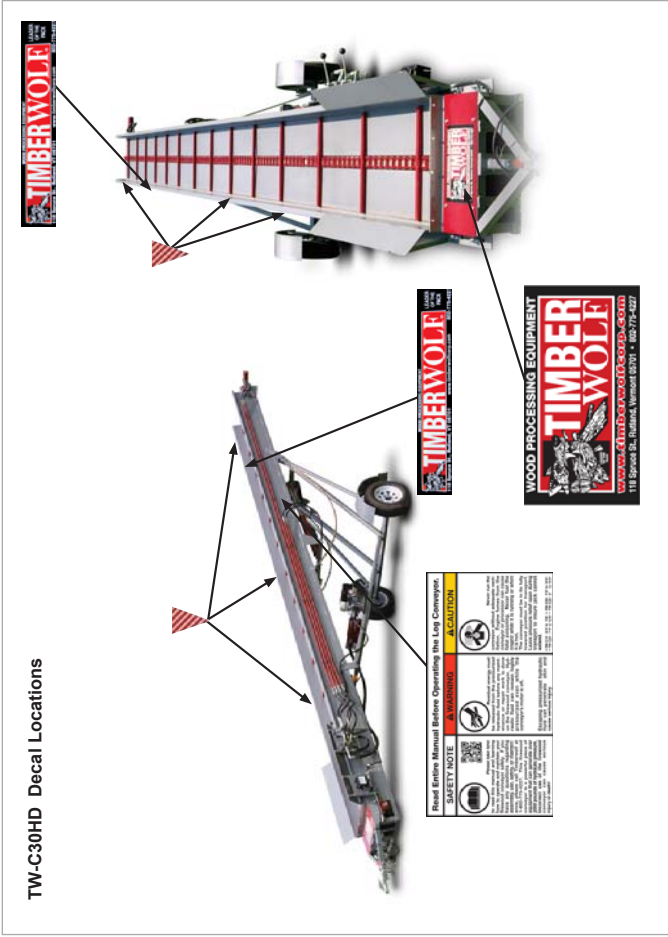
Hydraulic Safety

TW-C12, TW-C20, TW-C24, TW-C26 Decal Locations



TW-C12, TW-C20, TW-C24, TW-C26 Decal Locations

TW-C30HD Decal Locations



TW-C30HD Decal Locations

General Information

General

Timberwolf Firewood Processing Equipment commercial grade conveyors can be used for a wide variety of applications. They are rugged and dependable units that can be used in a woodlot or agricultural setting to move firewood, mulch, and hay.

Conveyors are available in 12, 20, 24, 26 and 30-foot lengths. A hand operated 8-ton hydraulic jack adjusts the conveyor's height.

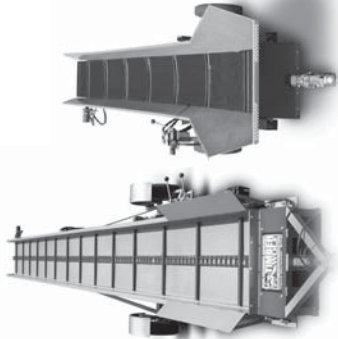
The hydraulic motor that drives the conveyor is located at the top for greater efficiency. Conveyor models are available with an onboard gasoline engine and hydraulic pump to power the motor or with fittings for connection to an external hydraulic system. Timberwolf firewood processors, for example, can be specially equipped to power a conveyor.

The TW-C12, TW-C20, TW-C24 and TW-C26 conveyors feature heavy steel frame construction and an 18-inch wide belt made of two-ply polyester Ruff Top™ belting. The belt slides on continuous strips of polyurethane to insure smooth operation and reduce wear. Optional T-cleat Ruff Top belting is also available on these models. The 1-inch cleats provide reliable transport even in extreme weather conditions.

The TW-C30HD conveyor employs a drive chain and cleats rather than a belt to move material. The chain is recessed below the conveyor trough and rides on a nylon track to reduce friction.

The conveyors can be easily transported on public roads. They come standard with a 2-inch ball coupler, and feature high speed DOT approved wheels and tires. A pintle hitch coupler is available as an option on the TW-C30HD.

Gasoline powered conveyors feature a Honda GX160 overhead valve engine, with the exception of the TW-C12, which sports a Honda GC160. One tank of gasoline can run the conveyor for approximately eight hours.



General Information

Set Up & Take Down

Overview

This part of the manual contains instructions for setting up the conveyor at the work site and taking it down for transport.

Set Up Procedures

- Work Area Layout
- New Location Set Up
- TW-C12, TW-C20, TW-C24, TW-C26 Height Adjustment
- TW-C30HD Height Adjustment Overview
- TW-C30HD Hydraulic Height Adjustment
- Processor Hydraulic Power
- Leveling Engine/Hydraulic Tank Platform

Take Down Procedures

- TW-C12, TW-C20, TW-C24, TW-C26 Lowering the conveyor
- TW-C30HD Lowering the Conveyor
- TW-C12, TW-C20, TW-C24, TW-C26 Tow vehicle hookup
- TW-C30HD Tow vehicle hookup

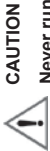
This part of the manual also includes directions for connecting and disconnecting hydraulic lines to a Timberwolf Firewood Processing Equipment firewood processor. Both the conveyor and the processor require factory installed special equipment for that application.

Set Up & Take Down

Set Up Procedures

Work Area Layout

- Locate conveyor on firm, level ground
- Select well-lit spot, outdoors or in well-ventilated area



Never run the conveyor or processor without adequate ventilation. Engine fumes from conveyor or processor can cause fatal poisoning.

- Check for hazards around the conveyor. Make sure area is free of slippery surfaces and objects to trip over
- Make sure there won't be people or animals in the area around the conveyor
- Plan access for the trucks or trailers to be loaded by the conveyor
- If conveyor is equipped with optional chip separator, plan for collection and removal of chips and other scraps; separator drops debris 2 - 3 feet back from top of conveyor

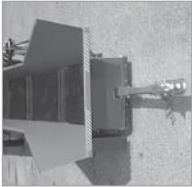
New Location Set Up

Position conveyor in the selected location, then disconnect tow vehicle:

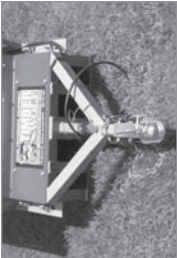
- Firmly block wheels so conveyor can't roll in either direction

(continued on next page)

Set Up & Take Down



Conveyor Towing Hitch
(TW-C12, TW-C20, TW-C24, TW-C26)



Conveyor Towing Hitch
(TW-C30HD)

Set Up Procedures

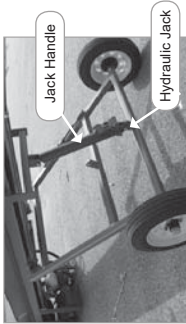
New Location Set Up (Continued)

- Disconnect safety chains (TW-C12, TW-C20, TW-C24, TW-C26, TW-C30HD), emergency brake cable, and wiring harness for conveyor lights and brakes (TW-C30HD)
- Lift conveyor ball coupler off tow vehicle's trailer hitch
- Drive tow vehicle clear

TW-C12, TW-C20, TW-C24, TW-C26 Height Adjustment

To adjust conveyor height:

1. Insert jack handle in hydraulic jack.
 2. Make sure jack's pressure relief is closed.
 3. Pump jack until conveyor reaches required height.
 4. Place jack handle in storage position on conveyor frame.
- Check for hazards around the conveyor. Make sure area is free of slippery surfaces and objects to trip over
 - Make sure there won't be people or animals in the area around the conveyor
 - Plan access for the trucks or trailers to be loaded by the conveyor



Set Up & Take Down

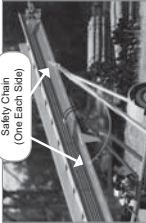
Set Up Procedure (Continued)

TW-C30HD Height Adjustment Overview

Timberwolf TW-C30HD conveyors are equipped with a hydraulically driven height adjustment system:

All conveyors have safety chains for securing the support arms to the conveyor frame in order to prevent accidental descent when raised.

There are also retainer bolts, one on each side, that firmly secure the conveyor when it is in its retracted position. The retainer bolts keep the conveyor from bouncing on the support arms during transit, thereby reducing wear and tear and risk of damage. They must be removed before raising the conveyor, and should always be re-installed before it is moved.



Safety Chain Securing Hooks (TW-C30HD)



Safety Chain Securing Hooks-Left Side (TW-C30HD)



Safety Chain Securing Hooks-Right Side (TW-C30HD)



CAUTION

Retainer bolts must be removed before the conveyor can be raised. Attempting to raise the conveyor with the bolts in place can damage the equipment and cause injury to the operator.

Set Up & Take Down

Set Up Procedure (Continued)

TW-C30HD Hydraulic Height Adjustment

A conveyor can be equipped for height adjustment powered by the hydraulic pump and operated by a control valve lever. The height adjustment lever is located with the conveyor control, on the conveyor for a self-powered unit, or at the processor's operator station for a processor powered unit.

1. Start and warm up the conveyor or processor engine and hydraulic system.
2. Remove retainer bolts when starting from fully retracted position. Store them in a safe place.
3. Use the Conveyor Height control lever to raise the conveyor to the required height. Safety chains go slack as the conveyor rises.
4. Hook safety chains as tightly as possible when conveyor is at the required height.



CAUTION

Always secure safety chains when the conveyor is raised. Do not rely on the hydraulic cylinder to maintain the conveyor in its raised position.

5. When making any further adjustments, remember that conveyor can be raised higher with chains in place, but chains must be unhooked before conveyor height can be adjusted downward.

Processor Hydraulic Power

Timberwolf hydraulic conveyors can be equipped to be powered and controlled by a Timberwolf firewood processor. An externally powered conveyor does not have an engine and pump, hydraulic tank, or control valve lever. The firewood processor assumes the functions of those components.

A processor set up to power a conveyor is equipped with a hitch adapter for connecting the conveyor to the processor, and a control lever and set of hydraulic connectors for the conveyor.

(continued on next page)

Set Up & Take Down

Set Up Procedure (Continued)

Processor Hydraulic Power (Continued)



Always depressurize the entire processor hydraulic system before connecting or disconnecting any hydraulic fitting. Failure to observe this caution can result in serious injury.

Consult processor maintenance and operation manual.

Take Down Procedures

Timberwolf firewood conveyors are easily moved between work sites. Conveyors meet the normal size limits for travel on public roads. Shutting the conveyor down for a move requires special attention:

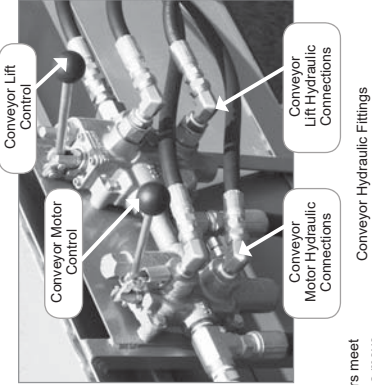
- Make sure belt and hopper are clear of scraps and debris
- Turn off engine fuel

TW-C12, TW-C20, TW-C24, TW-C26 Lowering the Conveyor

The conveyor must be in its fully lowered position for transport:

1. Make sure nothing will block the conveyor as it descends.

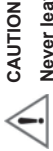
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Set Up & Take Down

Take Down Procedures (Continued)

2. Carefully open the pressure relief on the height adjusting hydraulic jack so that conveyor settles slowly to its retracted height, allowing it to descend rapidly puts unnecessary strain on the frame.
3. Leave pressure relief open during transport to insure jack cannot extend.
4. Remove jack handle from its storage position on frame and transport in tow vehicle.



Never leave jack handle in storage position on frame when transporting conveyor.

TW-C30HD Lowering the Conveyor

Make sure nothing will block the conveyor as it descends. Then return it to its lowest position.

For a conveyor with hydraulic height adjustment:

1. Disconnect the safety chains.
2. Use the control valve lever to lower the jack slowly.
3. Re-hook the safety chains and re-install the retainer bolts.

Set Up & Take Down

Take Down Procedures (Continued)

TW-C12, TW-C20, TW-C24, TW-C26 Tow Vehicle Hookup

Tow vehicle must be big enough and properly equipped to pull the conveyor:

- Towing weight, overall length, and retracted height:
 - TW-C12 - 1120 lb, 16 ft, 5 ft 4 in
 - TW-C20 - 1220 lb, 24 ft, 7 ft 3 in
 - TW-C24 - 1360 lb, 28 ft, 7 ft 4 in
 - TW -C26 - 1440 lb, 30 ft, 8 ft
 - Standard 6-pin wiring harness for lights and brakes
1. Fully compress conveyor's height adjustment jack and place it in the lowest position on the frame.
 2. Back tow vehicle into position.
 3. Lift conveyor's ball coupler and position it securely on tow vehicle's hitch.
 4. Connect safety chains.
 5. DO NOT tow the conveyor faster than 45 m.p.h.

Set Up & Take Down

Take Down Procedures (Continued)

TW-C30HD Tow Vehicle Hookup

Tow vehicle must be big enough and properly equipped to pull the conveyor:

- Towing weight - 3040 lb
 - Overall length - 33 ft
 - Retracted height - 9' 9" ft
 - Electric brake controller
 - Standard 6-pin wiring harness for lights and brakes
1. Fully compress conveyor's height adjustment jack and place it in the lowest position on the frame.
 2. Back tow vehicle into position.
 3. **With more than one person**, lift conveyor's ball coupler and position it securely on tow vehicle's hitch.
 4. Connect light and brake wiring harness, hitch failure emergency brake cable, and safety chains.
 5. DO NOT tow the conveyor faster than 45 m.p.h.



CAUTION

Never use the hitch failure emergency brake unit as a parking brake. Using the break-away brake as a parking brake while hitched to the tow vehicle will overload the electrical system and burn out the wiring.

Set Up & Take Down

Operating Instructions

Start Up Procedure

First, walk around the entire machine:

- Check-
- Fluid levels:
 - Fuel- start the day with a full tank of gasoline, turn fuel on
 - Engine should run about eight hours on a tank of gas
 - Hydraulic oil - Timberwolf Firewood Processing Equipment recommends ISO 46 hydraulic oil
- Hydraulic line condition - keep track of wear, save on downtime by replacing hoses before they fail
- Nuts, bolts, and fittings - make sure all are tight and secure
- Welds - check all welded joints

Start the engine:

- Make sure -
 - Control valve handle is in Off position
 - **No one** is near any moving part
- Start the engine, following the instructions in its operating guide
- Allow engine to warm up at idle:
 - Always warm up for at least five minutes
 - In winter weather (30° F and below) warm up for 30 minutes

Don't try to operate the conveyor under a load before the engine is properly warmed up. Take care of other tasks while the engine warms up.

Operating Instructions

Hydraulic Start Up

Timberwolf Firewood Processing Equipment conveyors use an open hydraulic system that starts circulating hydraulic oil when the engine starts running. The conveyor's hydraulic system is ready to go when engine warm-up is complete.

CAUTION

**Never adjust pressure settings on the machine.
Never make adjustments while machine is running.**



Do not take chances.

Do not let debris fall into the valve area.

Clean the machine of debris daily or more frequently as needed.

Do not operate this machine when you're tired or while taking any form of medication or alcohol.

Operation

When engine and hydraulic system are sufficiently warmed up, start the belt by pulling on the control valve. The belt continues running until the valve is pushed back to the Off position.

NOTE:

Be sure there are no objects on the conveyor belt when it starts running

Operating Instructions

Maintenance

General

Good maintenance extends the conveyor's life and helps to insure efficient operation. For engine maintenance schedules, consult the engine owner's manual.

Periodic Maintenance

Establish a routine of performing periodic maintenance as a regular part of daily operation.

Daily maintenance needs to include:

- Grease bearings on top and bottom belt drums
 - Check belt tension
 - Check bolts on belt and machine prior to engine start
- Hydraulic filters should be replaced at each 200 hours of operation.
- Make maintenance a part of the regular workflow, not an afterthought
 - Power plant warm-up is a good time to take care of grease fittings and to check set screws and belt tensions
 - Pay attention to the maintenance schedule

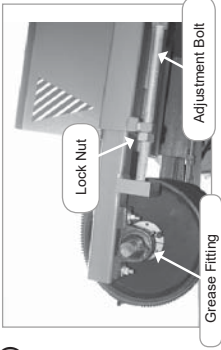
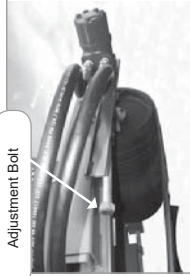
Maintenance

Conveyor Belt Adjustment (TW-C12, TW-C20, TW-C24, TW-C26)

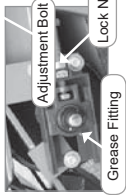
Conveyor belt tension requires occasional adjustment to prevent the belt from slipping on the drive drum. Adjustments can be performed at either the top or bottom drum.

To tighten the belt:

1. **Turn Off Engine**
2. Loosen the lock nut on each side's adjustment bolt assembly.
3. Turn each adjustment bolt an equal number of turns. Turn clockwise to extend bolt and tighten belt, counterclockwise to reduce belt tension.
4. If belt begins to run to one side on the drum, extend the adjustment bolt on the opposite side until belt moves to the center.
5. Securely re-tighten lock nuts when adjustments are complete.
6. Turn engine back on to check for proper belt tracking. If belt is not tracking properly **turn off engine** and repeat steps 2-5.



Bottom Adjustment Bolt Assembly, Shown With Guard Casing

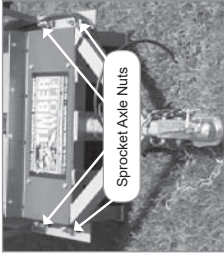


Maintenance

Conveyor Chain Adjustment (TW-C30HD)

Conveyor chain tension may require occasional adjustment:

- 1. Loosen the four nuts that secure the bottom sprocket axle.
- 2. Increase or decrease chain tension by sliding the sprocket axle.
- 3. Securely re-tighten the nuts while holding the axle in position.



Chain Adjustment

Maintenance

Specifications

Conveyor Model	Honda Power Plant	Hydraulic Top Drum Drive	Ruff Top Belling	Ruff Top Belling With 1" Cleats	Chain & Crossbar Support	Width	Min Ht.	Max Ht.	Chip Separator	Dot Lights	Fenders	Run Off Processor Hydraulics
C12	GC160	STD	STD	OPT	N/A	18"	5'4"	7'6"	OPT	OPT	OPT	OPT
C20	GX160	STD	STD	OPT	N/A	18"	7'3"	12'4"	OPT	OPT	OPT	OPT
C24	GX160	STD	STD	OPT	N/A	18"	7'4"	12'6"	OPT	OPT	OPT	OPT
C26	GX160	STD	STD	OPT	N/A	18"	8'	13'8"	OPT	OPT	OPT	OPT
C30HD	GX160	STD	N/A	N/A	STD	26"	9'9"	14'5"	STD	STD	STD	OPT

Specifications

Limited Warranty

Product Covered	This warranty is for Timberwolf Firewood Processing Equipment branded log splitters, conveyors, wood processors, and their attachments or accessories.
Date Warranty Begins	The warranty begins on the date of sale and is warranted by Timberwolf Firewood Processing Equipment to the original purchaser only.
What We Will Do for You:	We or your authorized dealer will, at our option, repair or replace any part found to be defective in material or workmanship, without charge for parts or labor, to the original purchaser for a period of time of one year. However, charges for pickup, delivery, and service calls are not covered by this warranty. The engine is warranted separately by the engine manufacturer.
What Is Not Covered	This warranty does not apply to parts that have been damaged by accident, alteration, misuse, abuse or improper lubrication.
Limited Commercial Use Warranty	If used for rental purposes, the warranty on this product is limited in duration to 90 days from date of purchase. This warranty does not apply to parts that have been damaged by accident, alteration, misuse, abuse or improper lubrication. The engine for commercial use is warranted separately by the engine manufacturer.
How To Get Service	To obtain service, contact our nearest dealer, or Timberwolf Firewood Processing Equipment at 2235 Clarks Corners Road, Marathon, NY 13803, or call us at 1-800-340-4386. We are not authorized to repair or maintain Honda engines. For engine repair, questions or maintenance, please contact your closest authorized Honda dealer.
Disclaimer of Consequential Damages	Timberwolf Firewood Processing Equipment shall not be liable under any circumstances for any incidental or consequential damages or expenses of any kind, including – but not limited to – the cost of equipment rental, loss of profits, or cost of hiring services to perform tasks normally performed by the equipment.

Limited Warranty

Limitation of Implied Warranties	Any implied warranties, including without limitation any implied warranty of merchantability or fitness for a particular purpose, shall be limited in duration to a period of one year (90 days if product is purchased for commercial or other non-residential use) from the date of sale. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty lasts.
Your Rights Under State Law	This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Limited Warranty

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TW-C12, TW-C20, TW-C24, TW-C26, TW-C30HD CONVEYORS OPERATOR'S MANUAL

OPERATOR'S MANUAL



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