

RR2506

CONVEYOR FOR ECOPRO200

Assembly Guide



Tower | Conveyor sections | Winch cable | Hydraulics | Belt installation

Read this guide and the EcoPro200 Owner/Operator Manual before assembly or use.

01 READ BEFORE ASSEMBLY

Scope, owner responsibility, and critical warnings

WARNING: Incorrect assembly, an unsupported raised conveyor, a damaged winch cable, or an incorrect hydraulic connection can cause crushing, entanglement, high-pressure injection, equipment damage, serious injury, or death.

About this guide

This guide covers installation of the RR2506 conveyor on the Range Road EcoPro200. It does not replace the EcoPro200 Owner/Operator Manual or the instructions supplied with the engine and other components. Keep all manuals with the machine and make them available to every assembler, owner, and operator.

Model: RR2506

Host machine: EcoPro200

Serial number: _____

Purchase date / dealer: _____

Owner and assembler responsibilities

- Read the complete procedure before starting. Do not improvise a connection, substitute hardware, or alter a guard, latch, pressure setting, or safety device.
- Confirm all parts are present and undamaged. Replace damaged cable, hoses, fittings, pins, guards, labels, or hardware before assembly or use.
- Assembly and hydraulic work must be performed by people familiar with safe lifting, mechanical assembly, and hydraulic systems.
- If the machine differs from these photographs or a step is unclear, stop and contact Range Road or the selling dealer before continuing.

02 SAFETY AND PREPARATION

Prepare the machine, work area, people, and tools

BEFORE TOUCHING THE MACHINE: Park the EcoPro200 on a firm, level surface. Stop the engine, remove the key or disable starting, wait for all movement to stop, relieve hydraulic pressure, and allow hot components to cool.

- Use at least two capable adults and suitable lifting equipment for long or heavy sections. Never place any part of your body beneath an unsupported conveyor section.
- Wear safety glasses, work gloves, protective footwear, and close-fitting clothing. Keep hair, jewelry, and loose clothing away from the winch, rollers, belt, shafts, and coupler.
- Keep hands clear of pivot joints, cable rollers, the folding hinge, the support stand, latch, belt lacing, and all other pinch or crush points.
- Inspect the winch, cable, hook, rollers, and anchor before lifting. Never use a kinked, frayed, crushed, or otherwise damaged cable.
- Keep hydraulic hose ends, fittings, and ports clean and capped until connection. Never use a hand to search for a leak; escaping oil can penetrate skin.
- Drain and capture hydraulic oil before opening the reservoir. Clean spills immediately and dispose of used fluid in accordance with local requirements.
- Do not start the EcoPro200 until assembly is complete and the final inspection has been performed. Keep bystanders outside the work area.

RAISED CONVEYOR: Engage the safety latch and use rated mechanical support whenever work requires access near or beneath a raised section. The winch alone is not a safety support.

03 IDENTIFY THE MAIN COMPONENTS

Lay out and inspect the assemblies before installation



Tower, winch, cable-roller rod, support stand, and mounting hardware



EcoPro200-to-conveyor transition plate



Lower / machine-end conveyor section

- Main assemblies: tower, transition plate, lower conveyor section, folding upper conveyor section, support stand, end roller/tensioner, hydraulic motor, valve assembly, two hydraulic hoses, belt, belt guides, latch, cable-roller rod, retaining bars, pins, and hardware.
- Compare supplied hardware to the photographs before tightening anything. Keep matched pins, washers, keys, and fasteners with their components.
- The crate photograph in the source manual is intentionally omitted because its visible stencil does not match the RR2506 model designation.

PHOTO REFERENCE: Photographs show installation details and orientation. Component finishes and minor production details may vary.

04 INSTALL THE TOWER AND TRANSITION PLATE

Orient both components before tightening the hardware

1 Orient and install the tower

Position the tower at the rear end of the EcoPro200. The winch mounting plate must face the normal operator side. Fasten the tower with the four supplied bolts and tighten securely.



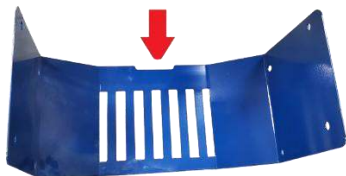
Winch mounting plate oriented toward the operator side



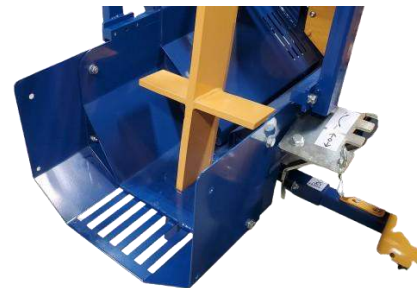
Tower fastened to the end of the EcoPro200

2 Install the transition plate

Place the transition plate between the EcoPro200 and the conveyor. Orient the lower cutout toward the machine, then install and tighten the supplied hardware.



Lower cutout facing the EcoPro200



Transition plate installed

05 INSTALL THE WINCH AND LOWER CONVEYOR SECTION

Support the conveyor while the pivot hardware is fitted

3 Mount the winch

Fasten the winch to the top of the tower. Confirm that the cable pays out toward the cable-roller path and that the handle can turn without interference.



Winch installed at the top of the tower

4 Attach the lower conveyor section

With suitable lifting assistance, align the lower conveyor section with the EcoPro200 brackets. At each pivot, place the washer between the machine bracket and the conveyor tab, then install the supplied pivot fastener. Secure the hardware while preserving the designed pivot movement.



Lower conveyor section positioned at the machine



Conveyor section prepared for installation



Washer placed between the machine bracket and conveyor tab



Pivot fastener installed

06 JOIN THE UPPER CONVEYOR SECTION

Install the hinge hardware and confirm free folding movement

5 Position the upper section

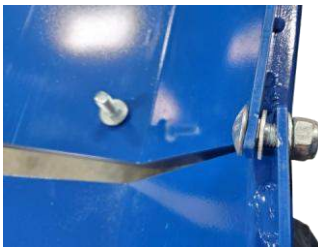
Support and align the upper conveyor section with the hinge points on the lower section. Keep hands outside the joint while the holes are aligned.



Upper section aligned at the folding joint

6 Install both hinge fasteners

At each side, place the washer between the two conveyor sections and install the supplied pivot fastener. Tighten enough to remove excessive side play while allowing the joint to fold freely.



Washer positioned between the conveyor sections



Second hinge fastener installed



Completed folding joint

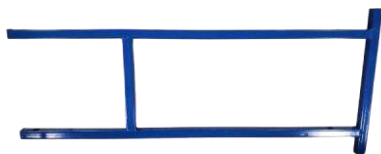
PINCH POINT: Keep the folding joint supported and keep hands out of the gap whenever the upper section is moved.

07 INSTALL THE SUPPORT STAND AND CABLE-ROLLER ROD

The cable must remain above the stand and centered on the rollers

7 Orient the stand and roller rod

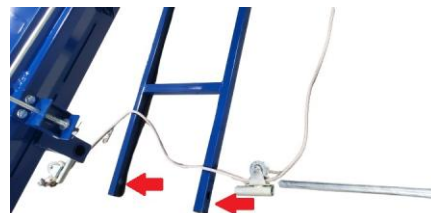
Position the support stand with its end holes facing rearward. The winch cable must pass above the stand and its center crossbar. Remove one pin and washer from the cable-roller rod.



Support stand



Cable-roller rod with removable pin and washer



Stand, rod, and cable orientation

8 Pin the stand to the conveyor

Pass the rod through the cable-roller bracket, support stand, and conveyor frame as shown. Reinstall the washer and retaining pin on the opposite side.



Rod entering the roller bracket and support stand



Rod passing through the stand and conveyor frame



Washer and retaining pin installed

08 CONNECT AND ROUTE THE WINCH CABLE

Keep the cable seated in both rollers during every lift

9 Attach the winch hook

Attach the hook to the left-side anchor on the tower. Confirm that the safety latch on the hook closes completely.



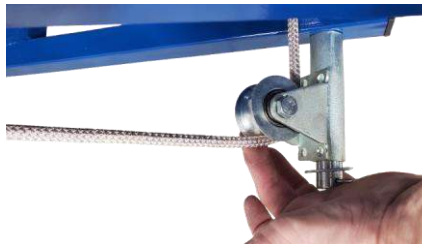
Winch hook attached to the left-side tower anchor

10 Route and tension the cable

Route the cable over both cable rollers and wind the winch under light tension. Watch the cable while winding and stop immediately if it leaves a roller, crosses over itself, binds, or becomes damaged.



Cable seated over the first roller



Cable seated over the second roller



Completed cable route

11 Prepare the belt-tension adjusters

Raise the conveyor only to a comfortable working height and secure it. Apply a light coating of grease or oil to both adjuster threads, then back both adjusters out evenly to near the end of their travel.



Conveyor raised to a comfortable working height



Lubricate both adjuster threads



Adjuster backed out near the end of its travel

09 INSTALL THE END ROLLER AND SAFETY LATCH

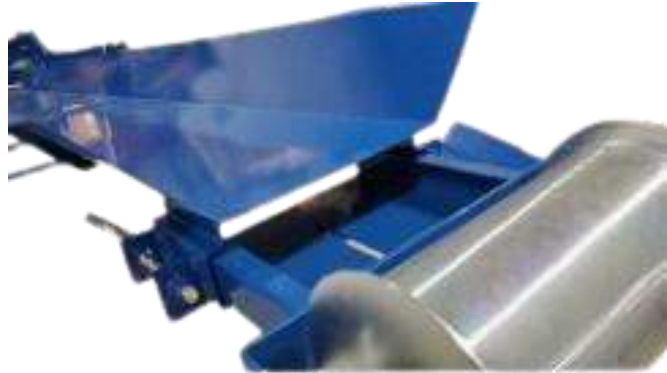
Retain the roller while preserving required adjustment movement

12 Install the end roller / tensioner

Slide the end roller assembly into the discharge end of the conveyor. Install the pivot bolt and tighten it enough to retain the assembly while allowing the movement required for belt tensioning.



End roller and tensioner assembly



End roller sliding into the discharge end

13 Install and engage the safety latch

Raise the conveyor nearly fully, install the latch components as shown, and lock the latch. Confirm that the latch carries the raised assembly before working nearby; use rated mechanical support whenever access beneath the conveyor is required.



Safety latch installed



Conveyor raised for latch engagement

NEVER RELY ON THE WINCH ALONE: A winch or hydraulic system can move or fail without warning. Engage the latch and mechanically support the conveyor before entering the crush zone.

10 INSTALL THE HYDRAULIC MOTOR AND BELT GUIDES

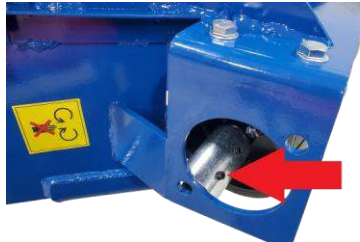
Align the key and coupler before tightening the motor

14 Fit the hydraulic motor

Loosen the shaft-coupler set screw. Align the motor-shaft key with the coupler keyway, seat the motor fully, and orient both hydraulic fittings upward. Tighten the motor mounting bolts and both coupler set screws securely.



Hydraulic motor and mounting hardware



Shaft-coupler set screw



Motor shaft key aligned with the coupler keyway



Motor installed with hydraulic fittings facing upward

15 Install both belt guides

Install the two belt guides at the motor end in the positions shown. Leave sufficient clearance so the guides do not rub the belt or roller.



Two supplied belt guides



Belt guide positioned at the motor end



Belt guides installed

11 ASSEMBLE AND INSTALL THE CONTROL VALVE

Keep every hydraulic component clean during assembly

16 Assemble the valve and adapters

Using the supplied O-rings and adapters, assemble the control valve in the orientation shown. Lubricate O-rings with clean compatible hydraulic oil and prevent dirt from entering the fittings.



Control-valve assembly orientation



Supplied adapters and O-rings



Adapter installed with O-ring in place

17 Drain the hydraulic reservoir

Confirm the engine is OFF, starting is disabled, the system is cool, and hydraulic pressure is relieved. Fully drain the reservoir into a suitable container before removing any hose or plug.

HYDRAULIC INJECTION HAZARD: Do not loosen a fitting while the system is pressurized. Never use a hand to check for leakage. Seek immediate emergency medical treatment for any suspected injection injury.

18 Install the valve on the EcoPro200

Remove the original hose while leaving its machine-side fitting in place. Remove the reservoir port plug. Install the valve assembly in the former plug port, then connect the removed original hose to the middle fitting on the valve assembly.



Original hose and reservoir plug removed



Valve installed and original hose connected to the middle fitting

12 CONNECT THE CONVEYOR HYDRAULIC HOSES

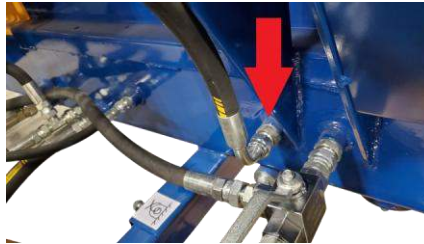
Route hoses away from heat, sharp edges, pinch points, and moving parts

19 Connect the first hose

Connect the 90-degree end of one supplied hose to the reservoir fitting. Connect its straight end to one port on the conveyor motor.



Two supplied conveyor hydraulic hoses



First hose: 90-degree end connected at the reservoir



Hose route between the EcoPro200 and conveyor motor

20 Connect the second hose

Connect the 90-degree end of the remaining hose to the control valve. Connect its straight end to the remaining motor port. Tighten fittings correctly, secure the hose routes, and verify that no hose is twisted or stretched through the full conveyor movement.



Second hose: 90-degree end connected at the control valve



Both hoses connected at the hydraulic motor

DIRECTION CHECK: Incorrect hose routing can reverse the belt. During the initial test, stop immediately if the belt runs toward the machine. Shut down, relieve pressure, and correct the routing before use.

13 FEED THE CONVEYOR BELT

Keep the belt centered and free of twists

21 Start the belt at the motor roller

Lower and secure the conveyor for belt installation. Identify the belt direction and feed the belt along the trough and around the motor roller, keeping the belt flat and centered.



Conveyor belt prepared for installation



Belt started along the conveyor trough



Belt routed around the motor roller

22 Continue the belt through the support stand

Raise the conveyor nearly fully while keeping the belt centered. Route the return side through the support stand and above the center crossbar. Confirm that the belt is not twisted or pinched.



Belt kept centered while the conveyor is raised



Belt routed through the stand above the center crossbar

CONTROL THE LIFT: Keep people clear of the conveyor and folding joint while raising. Watch the cable, belt, hoses, and stand continuously and stop if anything binds.

14 JOIN THE BELT ENDS

Mesh the lacing and fully reinstall the hinge pin

23 Remove the belt hinge pin

Bring the two belt ends together without twisting the belt. Carefully remove the hinge pin from the belt lacing.



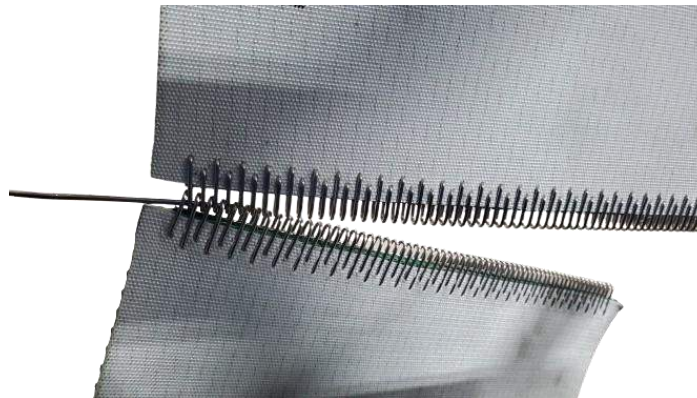
Belt ends brought together



Hinge pin removed from the belt lacing

24 Mesh the lacing and reinstall the pin

Interleave the lacing loops evenly, then slide the hinge pin through the full width of the joint. Confirm the pin is completely seated and retained before tensioning the belt.



Joined belt with hinge pin fully installed

KEEP HANDS CLEAR: Do not place fingers between the belt, roller, lacing, or frame. The belt can shift suddenly as slack is removed.

15 TENSION AND ALIGN THE BELT

Use the support-stand crossbar as the minimum-clearance reference

25 Tension both sides evenly

Turn both belt-tension adjusters in equal increments. Apply only enough tension for the return side of the belt to clear the support stand's center crossbar. Do not overtighten.



Adjust both tension bolts in equal increments



Keep the end roller square with the conveyor frame



Belt clearing the support-stand center crossbar

Initial alignment check

- ☐ The end roller remains square and both adjusters show approximately equal extension.
- ☐ The belt is centered through the trough, guides, rollers, and support stand.
- ☐ The belt clears the center crossbar without excessive tension.
- ☐ The hinge pin is fully seated and the belt guides do not rub the belt.

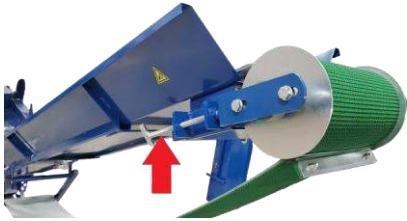
TRACKING CORRECTION: If the belt walks to one side during the no-load test, stop and disable the machine before making small, equalized adjustments. Never adjust a moving belt.

16 FOLD THE CONVEYOR FOR TRANSPORT OR STORAGE

Control the belt and secure every retaining device

26 Prepare the folding joint

Stop and disable the EcoPro200. Raise the conveyor only enough to relieve the folding-joint load. Loosen the two bolts at the belt-retaining square shown, release the safety latch, and move the retaining bar across the belt at the middle of the conveyor.



Loosen the two bolts at the belt-retaining square



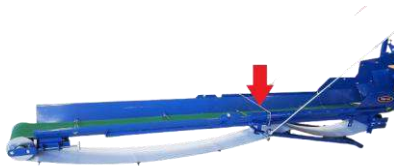
Release the safety latch



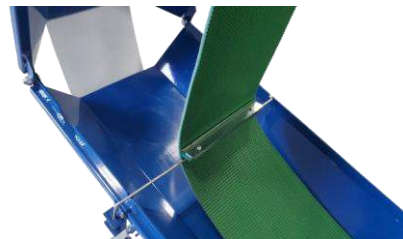
Move the retaining bar across the belt

27 Fold the upper section

With lifting assistance, fold the upper section. Confirm that the retaining bar supports the belt and that the belt, hoses, and cable are not pinched or stretched.



Upper conveyor section folding at the hinge



Retaining bar holding the belt during folding



Upper section fully folded

CRUSH HAZARD: Keep everyone outside the folding arc and away from the hinge. Maintain positive control of the section until it is fully secured.

17 SECURE THE FOLDED CONVEYOR

Install the retaining bar and both safety pins before moving the machine

28 Raise and secure the folded assembly

Crank the folded conveyor upward as required. Install the retaining bar that holds the belt, then lock the conveyor to the EcoPro200 frame with both safety pins.



Folded conveyor raised into the secured position



Belt-retaining bar installed



Both safety pins securing the conveyor to the frame

Before transport or storage

- ☐ Both frame safety pins are fully inserted and retained.
- ☐ The belt-retaining bar is installed and the belt cannot fall or drag.
- ☐ The winch cable remains seated on the rollers and is under controlled tension.
- ☐ The latch, folding joint, hoses, belt, and cable are not pinched or carrying unintended load.
- ☐ The conveyor is stable and will clear doors, structures, people, and overhead hazards during movement.

TRANSPORT LIMITS: Follow the EcoPro200 manual and all applicable transport requirements. Do not tow or move the machine on public roads unless the exact machine configuration is approved and equipped for that use.

18 FINAL INSPECTION AND INITIAL TEST

Complete every check before conveying material

Mechanical and hydraulic recheck

- ☐ Tower, transition plate, winch, conveyor pivots, motor, guides, valve, stand, roller, latch, retaining bars, and all pins are correctly installed and secure.
- ☐ Winch cable is undamaged, correctly anchored, and seated in both rollers; the hook latch closes fully.
- ☐ Motor fittings face upward, the key is seated, and both coupler set screws are tight.
- ☐ Hydraulic hoses are connected as shown, fittings are tight, and hoses are protected from heat, edges, pinch points, and moving parts through the full conveyor travel.
- ☐ Belt is flat, centered, correctly joined, minimally tensioned to clear the stand crossbar, and free of interference.
- ☐ Hydraulic reservoir is refilled to the specification and level stated in the EcoPro200 Owner/Operator Manual. Clean any spilled oil.

Initial no-load function test

- Clear all tools and people from the machine. Start and operate the EcoPro200 only as instructed in its Owner/Operator Manual.
- At low speed and with no material on the belt, briefly operate the conveyor. Verify that the belt moves away from the EcoPro200 toward the discharge end.
- Stop immediately for reverse movement, leakage, abnormal sound, binding, cable movement, belt rubbing, poor tracking, vibration, or unexpected conveyor motion.
- Shut down, wait for all movement to stop, relieve pressure, disable starting, and correct any fault. Recheck fasteners, hose fittings, belt tracking, cable routing, latch, and pins after the first short test.

READY FOR USE: Do not load material until the conveyor passes the no-load test and every guard, latch, retaining device, and safety label is present and functional.

19 IMPORTANT NOTICES, WARRANTY, AND SUPPORT

Keep this guide and proof of purchase with the machine

Intended use and limitations

The RR2506 is an accessory conveyor intended for installation on the Range Road EcoPro200 and for conveying material produced by that machine. Do not carry people, animals, tools, scrap, or material outside the intended application. Do not modify the conveyor, defeat a safety device, or use parts that are not approved for the application.

Service and repairs

The parts and photographs in this guide are installation references. Repairs, structural work, hydraulic diagnosis, and procedures not described here should be performed by a qualified technician using approved parts and the correct service information. Stop using the equipment whenever safe condition or correct assembly is uncertain.

Warranty

The source manual states that this product carries a one-year limited warranty. The written warranty terms supplied with the sale, including exclusions, proof-of-purchase requirements, and available remedies, control. Keep the sales receipt and record the model and serial number in this guide.

Technical support

For installation questions, approved replacement parts, warranty assistance, or replacement safety labels, contact the selling dealer or visit www.range-road.com or www.range-road.ca.

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