

# Winch Receiver Mount Kit

BM26393



**JOHN DEERE**

## INSTALLATION INSTRUCTIONS

### Winch Receiver Mount Kit

M178310 13JUL16 (ENGLISH)

XUV835, XUV865 Gator™ Utility Vehicles

**John Deere Horicon Works**  
**M178310 (13JUL16)**

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A John Deere ILLUSTRATION™ Manual

M178310-19-13JUL16



## Parts in Kit

### XUV835, XUV865

Qty.	Description
1	Weldment, Winch Receiver
1	Cable, Winch Rear Mount
1	Harness, Winch, 20 inch
1	Cable, Negative Battery
1	Cable, Positive Battery
2	Clamp
1	Pin, Hitch
1	Spring Locking Pin
2	Bolt, Socket Head, M10x25
2	Bolt, Flanged, M10x40
4	Bolt, Flanged, M8x20
2	Bolt, Flanged, M6x20
2	Bolt, Flanged, M5x20
2	Locknut, Thick, M10
3	Locknut, Thin, M10
4	Nut, Flanged, M6
4	Nut, Clamp-On, M6
2	Locknut, M5
25	Tie Strap
1	Label, Safety (French)
1	Label, Safety (No-Text)
1	Label, Safety (Spanish)
1	Winch Operators Manual
<i>NOTE: The following parts are referenced in these instructions, but included in another kit.</i>	
1	Contactactor
1	Fairlead
1	Winch
1	Wiring Harness, Winch Remote Connector
1	Remote Control
1	Clevis Hook with Strap
1	Winching Guide

*NOTE: Retain these installation instructions with your machine operator's manual.*

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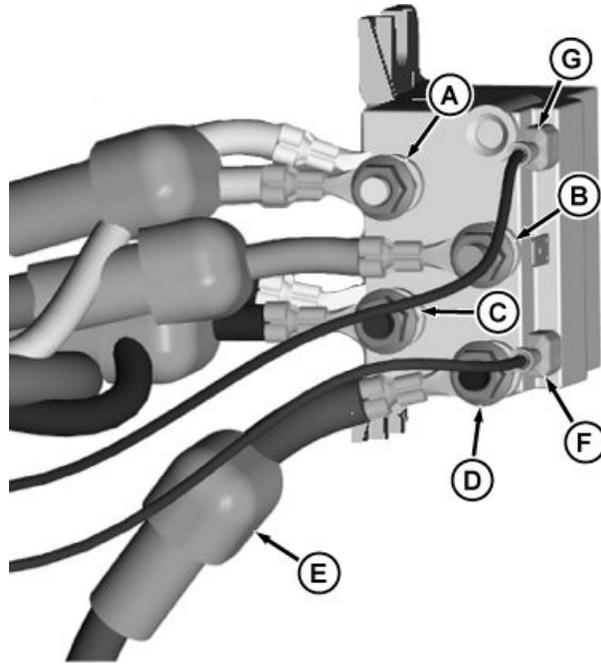
## Parking Safely

1. Stop vehicle on a level surface, not on a slope.
2. Fully lower the cargo box and any attachments on the machine that can be lowered.
3. Lock park brake.
4. Stop engine.
5. Remove key.
6. Before you leave the operator's seat, wait for engine and all moving parts to stop.
7. Disconnect the negative battery cable or remove the spark plug wire (for gasoline engines) before servicing the machine.

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## Install Contactor

1. Connect wires to contactor studs with M6 nuts as follows:
  - a. Yellow front and rear winch harness leads to yellow stud (A).
  - b. Red battery cable to red stud (B).
  - c. Blue front and rear winch harness leads to blue stud (C).
  - d. Black negative (-) battery cable to black stud (D).
  - e. Position boots (E) on four leads installed over contactor studs.
  - f. Green (F) and black (G) harness spade connectors to mating leads on contactor.



A—Yellow Stud  
 B—Red Stud  
 C—Blue Stud  
 D—Black Stud

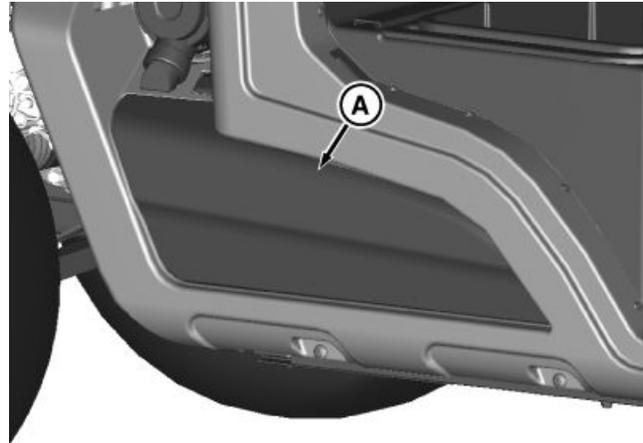
E—Boot  
 F—Green Harness  
 G—Black Harness

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2. Remove side access cover (A) from the right side of machine.

A—Access Cover



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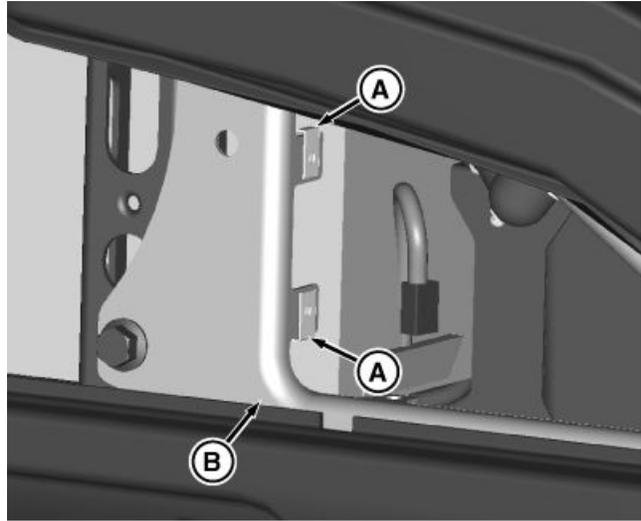
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3. Install clamp-on nuts (A) on bracket (B).

A—Nut, Clamp-On, M6

B—Bracket



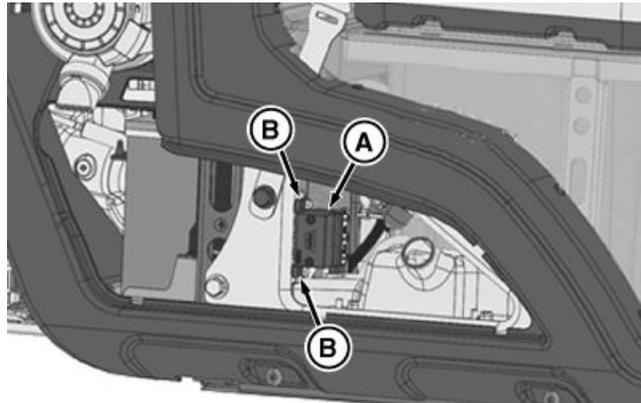
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4. Install the contactor (A) to frame member with two screws (B) and clamp-on nuts.

A—Contactor

B—Screw, M6x20



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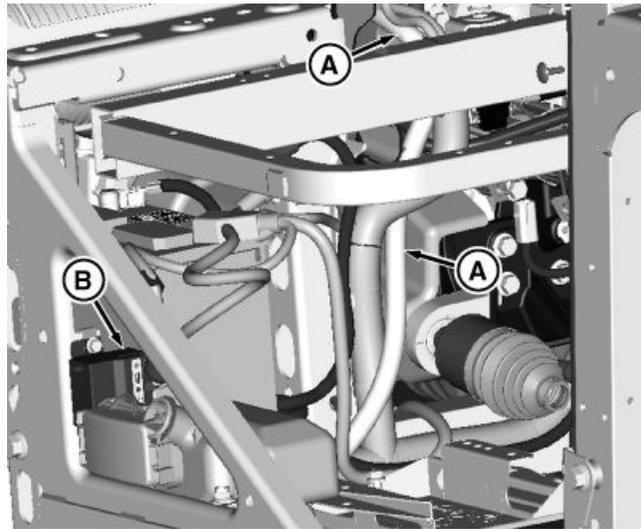
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5. Route rear winch harness (A) from contactor (B) under the frame towards rear of the machine along main harness. Secure to harness with tie straps.

6. Install side access cover

A—Rear Winch Harness

B—Contactor



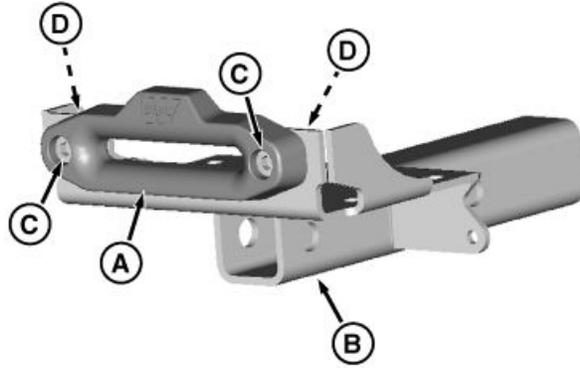
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## Install Winch

1. Park machine safely.
2. Install fairlead (A) on weldment (B) with bolts (C) and locknuts (D).

A—Fairlead  
 B—Weldment, Winch Receiver  
 C—Bolt, Socket Head, M10x25  
 D—Locknut, Thick, M10

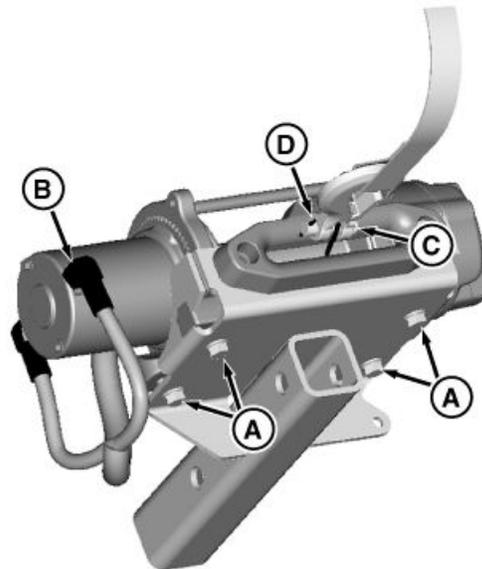


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3. Install winch on weldment with four bolts (A).
4. Install winch harness (B) to winch terminals. Tighten nuts and install covers over terminals.
5. Pull end of cable through fairlead opening. Attach hook to cable loop with drilled pin (C) and cotter pin (D). Bend ends of cotter pin.

A—Bolt, Flanged, M8x20  
 B—Harness, Winch, 20 inch  
 C—Drilled Pin  
 D—Cotter Pin



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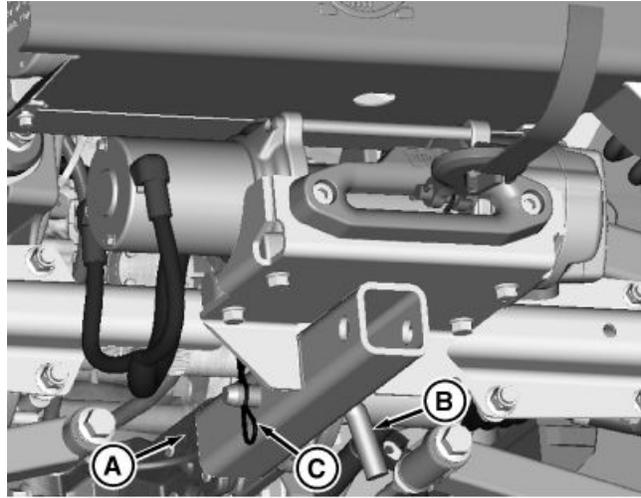
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6. Slide winch receiver weldment, into receiver hitch (A) and secure with hitch pin (B) and spring locking pin (C).

A—Rear Receiver Hitch  
B—Hitch Pin

C—Spring Locking Pin

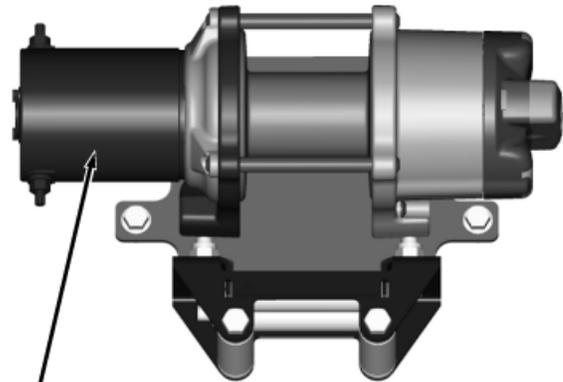


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### Install Labels

Clean the surface of the current label on the machine and apply the required French, Spanish or No-Text label over it.



<p><b>⚠ CAUTION</b></p> <p><b>TO AVOID INJURY</b></p> <ul style="list-style-type: none"> <li>• Read operator's manual</li> <li>• Keep bystanders away when operating</li> <li>• Never use as an overhead hoist to suspend a load, or to lift or move people</li> </ul>
<p><b>⚠ WARNING</b></p> <p><b>TO AVOID ENTANGLEMENT</b></p> <ul style="list-style-type: none"> <li>• Keep hands, feet and clothing clear of cable, hook loop, hook and fairlead opening</li> <li>• Wear heavy gloves when handling hook and cable</li> <li>• Use supplied hook strap when spooling cable in and out</li> </ul>

<p><b>⚠ ATTENTION</b></p> <p><b>POUR ÉVITER LES BLESSURES</b></p> <ul style="list-style-type: none"> <li>• Lire le livret d'entretien</li> <li>• Ne laisser personne s'approcher lors du fonctionnement</li> <li>• Ne jamais utiliser en tant que palan pour suspendre une charge ou pour élever ou déplacer des personnes</li> </ul>
<p><b>⚠ AVERTISSEMENT</b></p> <p><b>POUR ÉVITER LE HAPPEMENT</b></p> <ul style="list-style-type: none"> <li>• Garder les mains, les pieds et les vêtements éloignés du câble, de la boucle du crochet, du crochet et de l'ouverture du guide-câble</li> <li>• Porter des gants épais pour manipuler le crochet et le câble</li> <li>• Utiliser l'attache de crochet fournie pour dérouler et enrouler le câble</li> </ul>

French label shown

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## Install Rear Winch Wiring Harness

**⚠ CAUTION: Avoid Injury!** Damage to electrical cables and wires can result in serious injury or death caused by fire or electrocution.

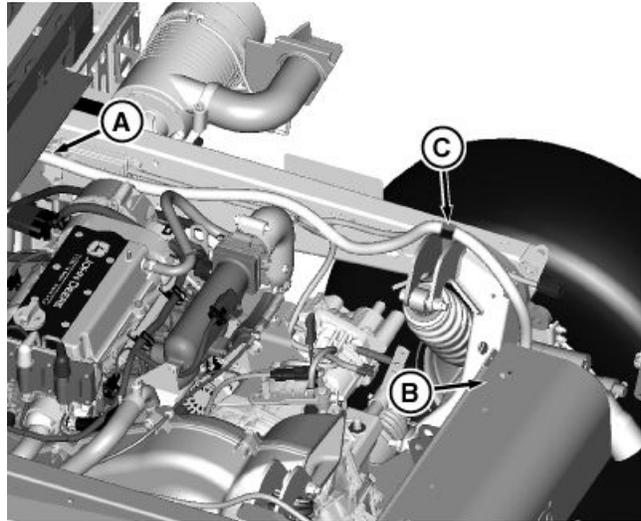
Do not route electrical wiring across sharp edges, through moving parts, or near hot surfaces.

Keep wiring away from these hazards by securing with tie straps. Insulate all terminal connections with protective covers.

**IMPORTANT:** Do not connect contactor positive (+) and negative (-) cables to battery until specifically instructed.

**IMPORTANT: Avoid Damage!** Make sure that the wires are not kinked or pulled tight against any metal edges of vehicle frame before securing with tie straps.

1. Route cable (A) along frame towards muffler (B).
2. Secure cable to shock mount plate with edge clamp (C).



A—Cable, Winch Rear Mount      C—Edge Clamp  
B—Muffler

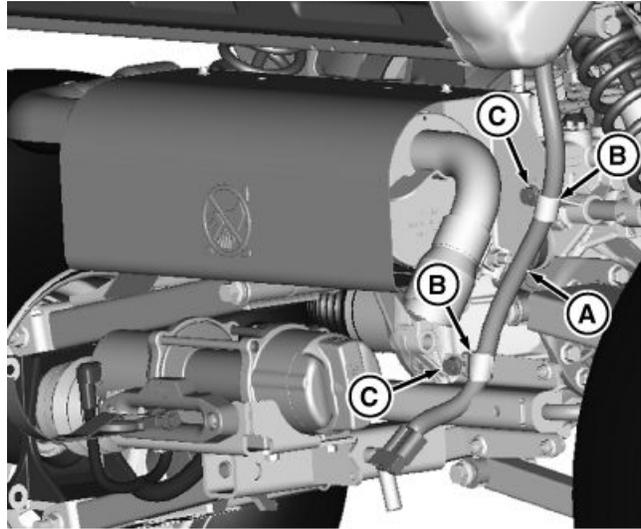
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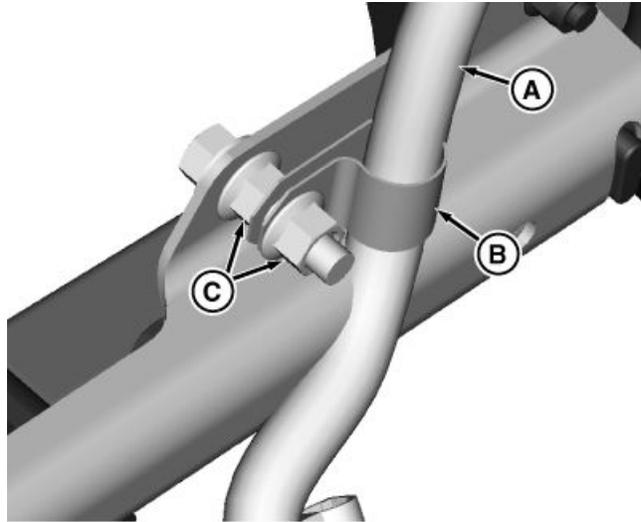
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3. Install cable (A) and upper clamp (B), with new M10x40 bolt, and nut (C).
4. Install cable (A) to lower sway bar with clamp (B), new M10x40 bolt, and two nuts (C).
5. Connect cable to winch harness.
6. Tie strap harness to frame where possible, to avoid moving parts.
7. Connect positive (+) and negative cables from contactor to battery.

A—Cable, Winch Rear Mount      C—Locknut, Thin, M10  
 B—Clamp



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Lower Sway Bar

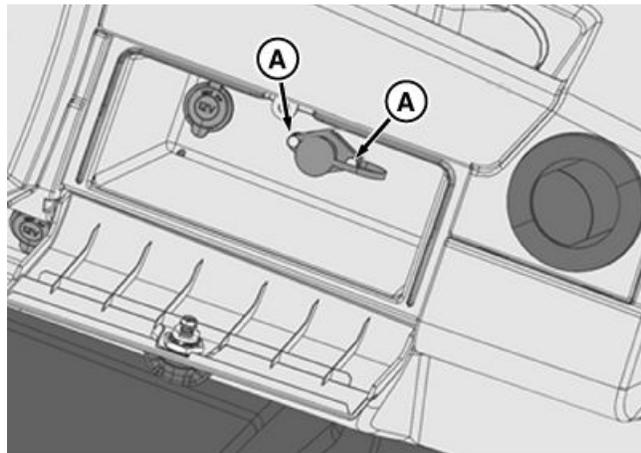
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### Install Winch Remote Control

1. Insert winch remote wiring connector into the hole on the inside of the glove box.
2. Install the remote connector with the keyway indexed down and secure with two screws (A) and locknuts. Do not overtighten.
3. Plug remote control connector into socket and store in the glove box.

A—Screws, M5x20



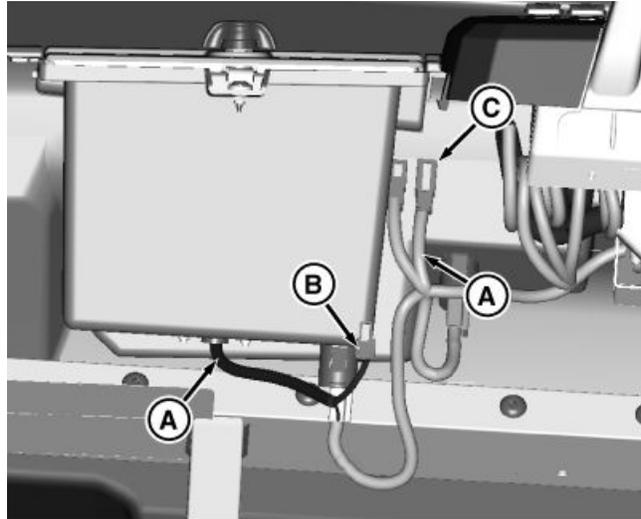
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4. Locate remote control wiring connection (A) on vehicle harness.
5. Connect remote control wiring connection, green/black connector (B) to orange/blue connector (C).
6. Connect positive (+) and negative cables from contactor to battery.

A—Remote Control Wiring Connection  
 B—Connector, Green/Black  
 C—Connector, Orange/Blue



Components removed for better view

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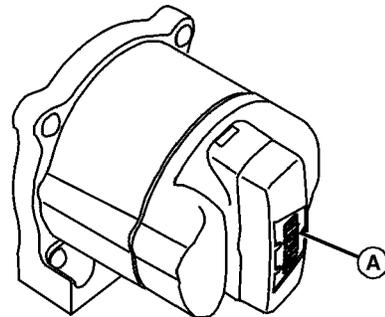
### Complete Installation

1. Park vehicle safely. (See Parking Safely in the SAFETY section.)
2. Have an assistant lightly tension the winch cable and press the OUT side of the remote rocker switch to extend the cable from the spool. The spool should not turn when the remote control switch is released.
3. Install all machine components removed in the PREPARE VEHICLE section, using the original hardware:
  - a. Tunnel cover(s).
  - b. Seat front and side panels.
  - c. Underseat storage tray.
  - d. Console and trim panels.
  - e. Seats.
  - f. Front storage compartment.

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### Inspect and Test System

1. Check wiring to all components is correct and secure.
2. Make sure there are no exposed wires or terminals.
3. Make sure solenoid is mounted securely.
4. Rotate clutch knob (A) counter-clockwise completely to engage clutch. (See label on clutch cover.)
5. Connect the winch quick disconnect harness to the front or rear mount wiring harness as applicable.
6. Turn vehicle key switch to run position.

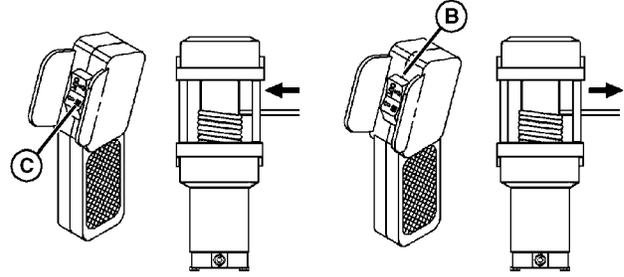


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7. Push top (B) of toggle switch on the remote control. Make sure winch cable spools off drum.
8. Push bottom (C) of toggle switch on the remote control. Make sure winch cable spools in.
9. Turn key switch to stop position.
10. Disconnect the winch quick disconnect harness from the front or rear mount harness as applicable.
11. Install dust cover onto front or rear mount harness connector to keep it clean.
12. Install seat base panel and seats.
13. Install transaxle shift lever knob and differential lock lever knob.
14. Remove hook strap from hook. Store hook strap in a secure location.



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### Stretch Winch Cable (New Cable Only)

**IMPORTANT: New winch cable will bind and become damaged if not properly stretched before use. Stretch the winch cable under a minimum 227 kg (500 lb) load.**

1. Center vehicle approximately 15 m (50 ft) from a minimum 227 kg (500 lb) load. Do not exceed winch load capacity.
2. Park vehicle safely. (See Parking Safely in the SAFETY section.)
3. Connect the winch quick disconnect harness to the front or rear mount harness as applicable.

**CAUTION: Winch cable can cause serious injury to hands. Wear gloves when handling winch cable. Always use hook strap when spooling. Do not let winch cable slide through hands even when wearing gloves.**

**Never winch with fewer than five wraps of cable around winch drum. Cable could break free from drum causing dangerous backlash.**

**Always inspect and carefully rewind winch cable after use.**

**Never step or stand over the winch cable.**

**Never hook back onto winch cable**

4. Spool out entire length of winch cable, leaving five wraps on the drum. Move vehicle closer to load if necessary.
5. Chock all wheels.
6. Prepare the rigging for a single line pull.
7. Start the vehicle.
8. Place transaxle shift lever in neutral position.
9. Place differential lock lever in unlocked position.
10. Make sure park brake is locked.
11. Leave engine run to avoid draining battery.
12. Spool in the load to stretch the winch cable and create a tight wrap on the drum. Stop winching when hook is 1.2 m (4 ft) from roller fairlead.
13. Spool out enough slack to disconnect hook.
14. Install hook strap to hook and spool in all winch cable.
15. Turn key switch to stop position.
16. Disconnect the winch quick disconnect harness from the front or rear mount harness as applicable.
17. Install dust cover onto front or rear mount harness connector to keep it clean.
18. Store hook strap in a secure location.

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