MAHINDRA
Subframe & Drive Mechanism
For
MAX SERIES 22, 25 & 28 & EMAX TRACTORS

* ASSEMBLY
* OPERATION
* REPAIR PARTS
* MAINTENANCE

CAUTION:
READ & FOLLOW ALL SAFETY RULES & INSTRUCTIONS BEFORE OPERATING YOUR EQUIPMENT
LIMITED WARRANTY

Conditions and Products Covered:
BERCOMAC guarantees any part of the product or accessory manufactured by BERCOMAC and found in the reasonable judgment of BERCOMAC to be defective in material and or workmanship will be repaired or replaced by an authorized dealer without charge up to our maximum labor rates and pre-established times. For replacement parts only standard ground freight services are covered. This warranty applies to the products bought and used in North America.

Warranty Period for Implement mounted on Max tractors
(from date of the original retail purchase)
- Residential or light commercial (light agricultural) use: 2 years
- Commercial (agricultural), heavy commercial, professional or rental use: 90 days

Exceptions Noted Below; the following items have a different coverage conditions and limited time:
- Tire Chains:
  - 90 days, residential or light commercial use
  - No warranty for regular commercial, heavy commercial, professional or rental use.
- Engines: Will vary as per the manufacturer
  Please refer to the engine manufacturer’s warranty statement included with the unit. BERCOMAC is not authorized to handle warranty adjustments on engines.

Items and Conditions NOT Covered:
This warranty does not cover the following:
- Pick-up or delivery charges or in-home services fees.
- Any damage or deterioration of the unit, parts and or finish of these due to normal use, wear and tear, or exposure.
- Cost of regular use or maintenance service or parts, such as gas, oil, lubricants, tune-up parts, and adjustments.
- Any part or accessory which has been altered, modified, misused, neglected, accidentally damaged or not properly installed, maintained, stored or repaired not in accordance with the instructions in the owner’s manual.
- Repair due to normal wear and or any wear items such as shear pins, bolts, belts, winch cable, cutting edge, skid shoes, etc.
- Expedited freight fee services for replacement parts.
- Shear bolts and shear pins are to be considered as a preventive measure not as an assured protection, any damages resulting from the lack of shear bolts breakage are not covered.

NOTE: All warranty work must be performed by an authorized dealer using original (manufacturer) replacement parts.

Owner’s Responsibilities:
BERCOMAC’s defective equipment or part must be returned to an authorized dealer within the warranty period for repairs. In the event that defective merchandise must be returned to manufacturer for repairs, freight fees are prepaid and a written authorization from BERCOMAC must be obtained by dealer prior to the shipment. This warranty extends only to equipment operated under normal conditions. To validate a warranty claim, it is the user’s responsibility to maintain and service the unit as specified in the owner’s manual or to have the unit serviced at their dealer at their expense.

General Conditions:
The sole liability of BERCOMAC with respect to this warranty shall be strictly and exclusively repair and replacement as mentioned herein. BERCOMAC shall not have any liability for any other costs, loss or damage, including but not limited to, any incidental or consequential loss or damage.

Taking advantage of the warranty does not in any way extend the length or renewal of the warranty.

In particular, without being limited to, BERCOMAC shall have no liability or responsibility for:
- Travel time, overtime, after hours time or other extraordinary repair charges or relating to repairs and or replacements outside of normal business hours.
- Rental of like or similar replacement equipment during the period of any, repair or replacement work.
- Any communicating or travel charges.
- Loss or damage to person or property other than that covered by the terms of this warranty.
- Any claims for lost revenue, lost profit or any similar costs as a result of damage or repair.
- Attorney’s fees.

BERCOMAC’s responsibility in respect to claims is limited to making the required repairs or replacement without charge up to our maximum labor rates and pre-established times and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any product or accessory.
In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold.

This warranty gives you specific legal rights. You may also have other rights, which vary from state to state.

NOTE: Bercomac reserves the right to change or improve the design of any part or accessory without assuming any obligation to modify any product previously manufactured.

Instructions for Obtaining Warranty Services: Contact the Mahindra dealer where equipment was purchased or any other Mahindra service dealer to arrange service at their dealership. To locate a dealer convenient to you, access our website at www.mahindrausa.com. Don’t forget to bring your proof of purchase (sales receipt) to the Mahindra dealer.

Revised 12-05-2011
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>SAFETY PRECAUTIONS</td>
<td>2</td>
</tr>
<tr>
<td>SAFETY DECALS</td>
<td>4</td>
</tr>
<tr>
<td>ASSEMBLY</td>
<td></td>
</tr>
<tr>
<td>Step 1  Tractor Preparation</td>
<td>6</td>
</tr>
<tr>
<td>Step 2: Subframe Preparation</td>
<td>7</td>
</tr>
<tr>
<td>Step 3  Subframe Installation</td>
<td>9</td>
</tr>
<tr>
<td>Step 4  Driveline Installation</td>
<td>13</td>
</tr>
<tr>
<td>OPERATION &amp; MAINTENANCE</td>
<td></td>
</tr>
<tr>
<td>Accessory Operation</td>
<td>14</td>
</tr>
<tr>
<td>Maintenance</td>
<td>14</td>
</tr>
<tr>
<td>Lubrication</td>
<td>14</td>
</tr>
<tr>
<td>DISMOUNTING &amp; STORAGE</td>
<td>15</td>
</tr>
<tr>
<td>TROUBLESHOOTING</td>
<td>16</td>
</tr>
<tr>
<td>PARTS BREAKDOWN AND PARTS LIST</td>
<td></td>
</tr>
<tr>
<td>Subframe</td>
<td>17</td>
</tr>
<tr>
<td>Drive mechanism</td>
<td>20</td>
</tr>
<tr>
<td>Shaft #700642</td>
<td>21</td>
</tr>
<tr>
<td>Shaft #700645</td>
<td>22</td>
</tr>
<tr>
<td>Shaft #700718</td>
<td>23</td>
</tr>
<tr>
<td>TORQUE SPECIFICATION TABLE</td>
<td>24</td>
</tr>
</tbody>
</table>
INTRODUCTION

TO THE PURCHASER

This new accessory was carefully designed to give years of dependable service. This manual has been provided to assist in the safe operation and servicing of your attachment.

NOTE: All photographs and illustrations in the manual may not necessarily depict the actual models or attachment, but are intended for reference only and are based on the latest product information available at the time of publication.

Familiarize yourself fully with the safety recommendations and operating procedures before putting the machine to use. Carefully read, understand and follow these recommendations and insist that they be followed by those who will use this attachment.

![Safety Alert Symbol]

This safety alert symbol identifies an important safety message in this manual that helps you and others avoid personal injury or even death. Danger, warning, and caution are signal words used to identify the level of hazard. However, regardless of the hazard, be extremely careful.

DANGER: Signals an extreme hazard that will cause serious injury or death if recommended precautions are not followed.

WARNING: Signals a hazard that may cause serious injury or death if the recommended precautions are not followed.

CAUTION: Signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed.

Record your attachment serial number and purchase date in the section reserved below (there is no serial number on the subframe). Your dealer requires this information to give you prompt, efficient service when ordering replacement parts. Use only genuine parts when replacements are required.

If warranty repairs are required please present this registration booklet and original sales invoice to your selling dealer for warranty service.

This manual should be kept for future reference.
Please check if you have received all the parts for your kit with the list of the bag and the list of the box.

| SERIAL NUMBER : | __________________________ |
| (IF APPLICABLE)  |  |
| MODEL NUMBER:    | __________________________ |
| PURCHASE DATE :  | __________________________ |
SAFETY PRECAUTIONS

Careful operation is your best insurance against an accident. Read this section carefully before operating the vehicle and accessory. This accessory is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury. All operators, no matter how experienced they may be, should read this and other manuals related to the vehicle and accessory before operating. It is the owner’s legal obligation to instruct all operators in safe operation of the accessory.

GLOSSARY:

In this manual, right and left sides are determined by sitting on the seat of the vehicle facing forward.

In this manual, “accessories” means attachments (snowblower, rotary broom, blade etc.) that you install on the vehicle (lawn tractors, A.T.V. s etc).

TRAINING:

This symbol, “Safety Alert Symbol”, is used throughout this manual and on the accessory’s safety labels to warn of the possibility of serious injury. Please take special care in reading and understanding the safety precautions before operating the vehicle and accessory.

1. Read this owner’s manual carefully. Be thoroughly familiar with the controls and proper use of the vehicle and accessory. Know how to stop the unit and disengage the controls quickly.

2. Never allow children to operate the vehicle nor the accessory. Never allow adults to operate the vehicle nor the accessory without proper instructions.

3. No one should operate the vehicle nor the accessory while intoxicated or while taking medication that impairs the senses or reactions.

4. Keep the area of operation clear of all people, particularly small children and pets.

5. Never start or operate the accessories except from the operator’s station on the power unit except if this is impossible.

PREPARATION:

1. Thoroughly inspect the area where the accessory is to be used and remove door mats, all foreign objects and the like.

2. For motorized accessories, disengage all clutches and shift into neutral before starting engine.

3. Do not operate the accessory without wearing adequate winter outer garments. Avoid loose fitting clothing that can get caught in moving parts. Wear footwear that will improve footing on slippery surfaces.

4. Handle fuel with care, it is highly flammable.
   a) Use approved fuel container.
   b) Never add fuel to a running engine or hot engine.
   c) Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
   d) Never fill containers inside a vehicle, or on a truck or a trailer bed with a plastic liner. Always place containers on the ground, away from your vehicle, before filling.
   e) When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
   f) Keep the nozzle in contact with the rim of the fuel tank or container opening at all times, until refueling is complete. Do not use a nozzle lock-open device.
   g) Replace fuel cap securely and wipe up spilled fuel.
   h) If fuel is spilled on clothing, change clothing immediately.

5. Never attempt to make any adjustments while the engine (motor) is running (except when specifically recommended by manufacturer).

6. Let the vehicle and accessory adjust to outdoor temperatures before using.

7. Never use an accessory without proper guards, plates, or other safety protective devices in place.

8. Always make sure to wear the appropriate safety equipment required (glasses, muffs, mask...) for each type of product. See operation section.

9. Always make sure of having safe traction on the vehicle by using the recommended accessories (chains, A.T.V. tracks, counterweights...). See operation section.

10. Always make sure all components are correctly installed. (driveline securely attached and locked at both ends, belts properly installed...)

11. If applicable, always handle the winch cable with thick leather gloves.

12. Never modify the accessory or any part without the written consent from the manufacturer.
SAFETY PRECAUTIONS

OPERATION:

1. Do not put hands or feet near, under or inside rotating parts.

2. Exercise extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.

3. After striking a foreign object, stop the engine (motor), disconnect the wire from the spark plug(s) and keep wire away to prevent accidental starting. Thoroughly inspect the accessory for any damage and repair damage before restarting and using the accessory.

4. If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.

5. Take all possible precautions when leaving the vehicle unattended. Disengage the power take-off, lower the attachment, place the transmission into neutral, set the parking brake, stop the engine and remove the ignition key.

6. Do not run the engine indoors, except when starting the engine and for transporting in or out of the building. Do not operate or let motor run in a storage area without ventilation because gas contains carbon monoxide which is odorless, colorless and can cause death.

7. Never use the accessories across the face of slopes, go from top to bottom. Exercise extreme caution when using equipment on slopes. Do not attempt to clear a steep slope.

8. Never tolerate bystanders in the working zone. Never use an accessory in the direction of bystanders, it might throw gravel or debris that can hurt people or damage property.

9. Never operate the accessory at high transport speeds on slippery surfaces. Use care when backing up.

10. Do not carry passengers.

11. Disengage power to the accessory when it is transported or not in use.

12. Never operate the accessory without good visibility or light.

13. Keep the accessory away from heat sources or flames.

14. If applicable, never handle the winch cable or hook while in tension.

MAINTENANCE AND STORAGE

1. When cleaning, repairing or inspecting the vehicle and accessory: stop the engine, set brake, remove ignition key, and wait that all moving parts have stopped. For gasoline engine, disconnect wire from the spark plug(s) and keep wire away to prevent accidental starting.

2. Check all the bolts and components at frequent intervals to make sure that they are properly tightened.

3. Never store a motorized accessory with fuel in the fuel tank inside a building where ignition sources are present such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.

4. Always refer to the owner's manual when you store the accessory and vehicle for a prolonged or an unspecified length of time.

5. Maintain or replace safety and instruction labels, as necessary.

6. For winter accessories, (if applicable), let the engine run for a few minutes after clearing snow in order to prevent the rotary parts from freezing.

7. Inspect the vehicle's and accessory's air filter (if applicable) every day. Clean it or replace it as necessary. Change the oil more often when working in dusty conditions. See the vehicle's and accessory's owner's manual.

TRANSPORT

1. Review Transport Safety instructions in vehicle manual before moving.

2. Check with local authorities regarding transport on public roads. Obey all applicable laws and regulations.

3. Make sure all lights and reflectors that are required by the local highway and transport authorities (exemple : SMV (Slow Moving Vehicle)) are in place, are clean, and can be seen clearly by all overtaking and oncoming traffic.

4. Never have the equipment in operation during transport.

5. Always travel at a safe speed.
# SAFETY DECALS

REPLACE IF DECALS ARE DAMAGED
SEE PARTS BREAKDOWN FOR DECAL LOCATION

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decal #105946</td>
<td>To avoid serious injury; Keep all parts of the body away from moving components.</td>
</tr>
</tbody>
</table>
ASSEMBLY

ASSEMBLY INSTRUCTIONS
IMPORTANT: UNLESS OTHERWISE SPECIFIED TORQUE ALL BOLTS ACCORDING TO TORQUE SPECIFICATION TABLE (SEE TABLE OF CONTENTS) WHEN STATED: TIGHTEN FIRMLY. REFER TO PARTS BREAKDOWN SECTION FOR PART IDENTIFICATION.

NOTE: In this manual, the right and left side is determined by sitting on the seat of the vehicle facing toward.

WARNING
When installing and operating the accessory, the front loader must be removed from the vehicle. The subframe for the front loader can stay on the vehicle.

TOOLS REQUIRED
Wrench: 3/8", 7/16", 1/2", 3/4", 15/16"
Socket: 7/16", 1/2", 3/4", 15/16"
Ratchet:
Allan Key: 1/8", 3/16"

Overall view
ASSEMBLY

STEP 1
TRACTOR PREPARATION

Note: The mower deck front support brackets must be removed.

WARNING

TO PREVENT INJURIES:
Park the vehicle on a flat surface in a well ventilated area.
Disengage the P.T.O.
Apply parking brake.
Stop the engine and remove the ignition key.
Wait until all moving parts have stopped before leaving the driver's seat.

MAX 22-25 & 28XL

Place the right hitch bracket (item 1) (item 106531 on the part list) on the vehicle frame as shown with two 5/8" x 1 1/4" hex bolts (item 3) and secure with 5/8" nylon insert lock nuts thin (item 4) as shown. Do not tighten.
Do the same on the left side of vehicle using the hitch bracket item 106531 on the part list (item 2).

EMAX

Place the right hitch bracket (item 1) (item 107254 on the part list) on the vehicle frame as shown with two 5/8" x 3 1/2" hex bolts (item 3) and secure with 5/8" nylon insert lock nuts (item 4) as shown. Do not tighten.
Do the same on the left side of vehicle but using the item 107255 of the part list, (item 2).
ASSEMBLY

STEP 2
SUBFRAME PREPARATION

Insert the rear subframe (item 2) into the front subframe (item 1).
There are 3 possible positions to assemble the subframe according to which tractor it will be installed on.

Max 22-25, use the Holes A and X
Max 28, use the Holes B and X (longer configuration).
eMax, use the Holes C and Y (shorter configuration)

Secure in place with the four 1/2” x 1 1/2” hex bolts (item 3) and 1/2” nylon insert lock nuts (item 4).

Make sure both parts are well aligned. Tighten the nuts firmly.

Assemble the front and rear subframe

NOTE: This step is not required when subframe is to be used with the blade.

Insert the bearing (item 1) between the two flangettes (item 2) as shown.

Secure the flangettes (from under the subframe) on the bracket (item A) (on the side pointed by the arrow) with the two 5/16”, x 3/4” carriage bolts (item 3) and the 5/16” nylon insert lock nuts (item 4).

Do the same assembly on the other bracket (item B) (on the side pointed by the arrow). Do not tighten the nuts yet.

NOTE: This step is not required when subframe is to be used with the blade.

Insert the drive shaft (item 1) in the bearings (items 2 & 3) as shown.
Use drive shaft 700642 for the Max 28
Use drive shaft 700645 for Max 22-25
Use drive shaft 700718 for eMax

There must be a distance (D) between the bearing and end of the shaft (see figure).

D= 7 3/16” for the Max 28
D= 6 3/4” for the Max 22-25 and eMax

Tighten the set screws (94 lbf-in) on the bearings and the nylon insert lock nuts (item 5) on the brackets.

Install the drive shaft
ASSEMBLY

Install the hydraulic adaptors by following the instructions in the kit.

Install the 700643 for the Max 22-25
Install the 700644 for the Max 28 and eMax

FOR: MAX 22-25 & 28XL ONLY

Install the front support (item 1) on the vehicle’s frame as shown. Secure in place with two bolts 1/2” x 1 1/2” (item 2) and nuts 1/2” (item 3).

Install the right hydraulic hose support (item 4) on the side of the tractor frame. Secure in place with two hex bolts M12 x 1.75 x 35 (item 6) and lock washers (item 5).

If installing on the Max 22 or 25 tractor use two nylon insert lock nuts M12 on the bolts (item 6).

FOR: EMAX ONLY

Install the rear link (item 2) on the rear of the sub frame (item 1). Secure in place with 4 bolts 7/16” x 1 1/4” (item 3), washer 7/16”(item 4) and nylon insert lock nuts 7/16” (item 5).
STEP 3
SUBFRAME INSTALLATION

SUBFRAME INSTALLATION FOR MAX 22-25 & 28XL

Drive the vehicle over the subframe. Ground clearance may vary according to the accessories installed on the vehicle.

**IMPORTANT:** If there is not enough distance between the vehicle and the ground, slide the subframe by hand under the vehicle.

---

Insert the subframe (item 1) by lifting it with the help of two people or with a car jack and install on the front brackets (item 2) by inserting the pins (item 3) in the slots (item 4).

---

Secure the front subframe (item 1) in place with the pin (item 2) and lynch pin (item 3).
ASSEMBLY

Plug the hydraulic hoses (item 1) on the vehicle taking care to thread the hoses behind the vehicle’s bumper (item 2), inside the front support (item 3), and the through the side support (item 4) as shown in first figure.

Finally, thread the hoses (for the Max 22 or 25), behind the tractor hose (item 5) and for the Max 22, 25 & 28, under the arm support for the loader (item 6) as shown in second figure.

IMPORTANT:
*Make sure that the hoses (item A) between the front support and the side support are long enough to follow the movements of the subframe.

*It is the user / or the person who does the installation’s responsibility to install the hoses in such a manner that they do not come into contact with any mobile elements of the vehicle (the wheels or the subframe) if not this could lead to damages.

Lift the back of the subframe (item 1) and place it under the vehicle’s hitch. Secure in place the pin (item 3)(106543 on the part list) and the lynch pin (item 4)(103919 on the part list) as shown.

NOTE: If there is a space (item A) between the subframe and the rear hitch, add one or two flat washers 13/16” (item 2) under the lynch pin (item 4).

Firmly tighten the four nuts (item 1) (two on each side) which hold the front supports (item 2) on the vehicle’s frame (item 3).

Install the hydraulic hoses

Secure rear subframe

Tighten the nuts
SUBFRAME INSTALLATION FOR EMAX

Drive the vehicle over the subframe. Ground clearance may vary according to the accessories installed on the vehicle.

**IMPORTANT:** If there is not enough distance between the vehicle and the ground, slide the subframe by hand under the vehicle.

Be careful not to drive over the hydraulic hoses.

If installed, remove pin at location A.

Insert the subframe (item 1) by lifting it with the help of two people or with a car jack and install on the front brackets (item 2) by inserting the pins (item 3) in the slots (item 4).

Make sure the subframe is parallel to the tractor frame.

**WARNING**

**TO PREVENT INJURIES:**
Never put any part of the body under the sub frame. The sub frame may fall with a wrong manipulation until the sub frame is fully assembled (front and rear with the 3 pins and lynch pins).

Install the pin (item 1)(107256 on the part list) on the rear of the subframe (item 2) using bolt 7/16 x 3-1/2" (item 3) and nut lock nut 7/16 (item 4). Do not tighten, just make sure the nylon of the nut is fully engaged on the bolt.

Lift the back of the subframe (item 2) and place it under the vehicle’s hitch.
Secure in place the lynch pin (item 5)(106894 on the part list) as shown.

**NOTE:** if there is not enough play to be able to install the lynch pin 106894, use the 103919 instead.
Secure the front of the sub frame with pin (item 1) (107257 on the part list) and two lynch pins (item 2) (104481 on the part list) in hole A. Do this on each side of the tractor.

Firmly tighten the four nuts and bolts (item 3) (two on each side) which hold the front supports (item 4)

Plug the hydraulic hoses (item 1) on the vehicle. Secure the hoses on the tractor guard using one Hoot-It cable ties (item 2) (the other one in the kit will be used for the accessories hydraulic hose to be secured at the same location on the tractor guard.)

IMPORTANT:
*Make sure that the hoses (item A) between the front guard and the hydraulic actuator are long enough to follow the movements of the subframe.

*It is the user / or the person who does the installation's responsibility to install the hoses in such a manner that they do not come into contact with any mobile elements of the vehicle (the wheels, subframe, ...), any sharp edge, any hot surface, if not this could lead to damages.

Install the hydraulic hoses
STEP 4
DRIVELINE INSTALLATION

Slide the driveline (item 1) on the shaft (item 2) and push to the end.

Unite the drive line to the mid P.T.O. with the quick attach (item 3).

Install the drive line
OPERATION & MAINTENANCE

CAUTION

The subframe kit is to be used only to lift and operate the snowblower, blade or broom for the Mahindra Max 22,25 & 28 & eMax series tractors.

ACCESSORY OPERATION:

Use the joystick for the loader to lift or lower the accessory.

IMPORTANT:

*It is the user / or the person who does the installation’s responsibility to install the hoses in such a manner that they do not come into contact with any mobile elements of the vehicle (the wheels or the subframe), sharp edge, hot surface if not, this could lead to damages.

*For the Max 22-25 & 28 Make sure that the hoses between the front support and the side support are long enough to follow the movements of the subframe. For the eMax, this is between the guard and the hydraulic actuator.

WARNING

TO PREVENT INJURIES:
Stop the vehicle’s motor.
Apply parking brake.
Remove the ignition key.

MAINTENANCE

Check mounting bolts at frequent intervals for proper tightness in order to prevent costly repairs. Make sure your accessory is in safe working condition.

LUBRICATION

Driveline:
Every 16 hours of use and before storing at the end of the season.

WARNING

TO PREVENT INJURIES:
Lower the accessory when the vehicle is parked. Temperature changes could change the hydraulic pressure, causing the accessory to drop unexpectedly, damaging the hydraulic components. Failure to do this could result in serious personal injury.

WARNING

TO PREVENT INJURIES:
Never leave the driver seat without disengaging the accessory, stopping the engine, applying the parking brakes and removing the ignition key. Never operate on slopes of more than 10%.
DISMOUNTING & STORAGE

SUBFRAME DISMOUNTING

Follow the assembly steps backwards in the Installation section.

WARNING

TO PREVENT INJURIES:
Park the vehicle on a flat surface in a well ventilated area.
Disengage the P.T. O.
Apply parking brake.
Wait until all moving parts have stopped before leaving the driver's seat.
Use wheel chocks.
Lift the accessory and stop the engine.

ATTENTION: Always install the protective covers on the ends of the hydraulic hoses when they are disconnected. This is to prevent any pollutants from entering the vehicle's accessory's hydraulic system.

ATTENTION: Clean up all oil spills to prevent accidents.

END OF SEASON STORAGE

a) Clean the components thoroughly and repaint all parts from which paint has worn.
b) List the replacement parts that will be needed for the next season.
c) Store the components in a dry place.
d) Follow the instructions in the Lubrication section.
* Please refer to parts breakdown section for parts identification.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSES</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessory raises or lowers too slowly.</td>
<td>Dirt in the oil.</td>
<td>Change the hydraulic oil.</td>
</tr>
<tr>
<td></td>
<td>Damaged bushing</td>
<td>Replace the bushing.</td>
</tr>
<tr>
<td>Ref. Réf.</td>
<td>English description</td>
<td>Description française</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>1</td>
<td>Front subframe</td>
<td>Sous-châssis avant</td>
</tr>
<tr>
<td>2</td>
<td>Rear subframe</td>
<td>Sous-châssis arrière</td>
</tr>
<tr>
<td>3</td>
<td>Superior lift arm</td>
<td>Bras de relevage supérieur</td>
</tr>
<tr>
<td>4</td>
<td>Right hitch</td>
<td>Attache droite</td>
</tr>
<tr>
<td>5</td>
<td>Left hitch</td>
<td>Attache gauche</td>
</tr>
<tr>
<td>6</td>
<td>Lift arm</td>
<td>Bras de relevage</td>
</tr>
<tr>
<td>7</td>
<td>hitch bracket</td>
<td>Support d’attelage</td>
</tr>
<tr>
<td>8</td>
<td>Left hitch bracket (eMax)</td>
<td>Support d’attelage gauche (eMax)</td>
</tr>
<tr>
<td>9</td>
<td>Right hitch bracket (eMax)</td>
<td>Support d’attelage droit (eMax)</td>
</tr>
<tr>
<td>10</td>
<td>Rear link (eMax)</td>
<td>Attache arrière (eMax)</td>
</tr>
<tr>
<td>11</td>
<td>Right Hydraulic hose support</td>
<td>Support Flexible Hydraulique Droit</td>
</tr>
<tr>
<td>12</td>
<td>Front Hydraulic hose support</td>
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<td>13</td>
<td>Cylinder</td>
<td>Vérin</td>
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<tr>
<td>14</td>
<td>Pin</td>
<td>Goupille</td>
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<tr>
<td>21</td>
<td>Bushing</td>
<td>Coussinet</td>
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<tr>
<td>22</td>
<td>Lynch pin</td>
<td>Goupille à anneau</td>
</tr>
<tr>
<td>23</td>
<td>Lynch pin</td>
<td>Goupille à anneau</td>
</tr>
<tr>
<td>24</td>
<td>Flat washer</td>
<td>Rondelle plate</td>
</tr>
<tr>
<td>25</td>
<td>Bushing</td>
<td>Coussinet</td>
</tr>
<tr>
<td>26</td>
<td>Lynch pin</td>
<td>Goupille à anneau</td>
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<tr>
<td>27</td>
<td>Hydraulic hose assembly</td>
<td>Flexible hydraulique assemblé</td>
</tr>
<tr>
<td>28</td>
<td>Hydraulic hose assembly</td>
<td>Flexible hydraulique assemblé</td>
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<td>29</td>
<td>Nylon sleeving</td>
<td>Gaine de nylon</td>
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<td>30</td>
<td>Hook-it cable ties</td>
<td>Attache câble auto-grippante</td>
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<tr>
<td>31</td>
<td>Hex. bolt M12 x 1.75 x 35 GR8.8</td>
<td>Boulon hex. M12 x 1.75 x 35 GR8.8</td>
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<tr>
<td>32</td>
<td>Hex. bolt 7/16&quot; n.c. x 1 1/4&quot; GR5</td>
<td>Boulon hex. 7/16&quot; n.c. x 1 1/4&quot; GR5</td>
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<tr>
<td>33</td>
<td>Hex. bolt 7/16&quot; n.c. x 3 1/2&quot; GR5</td>
<td>Boulon hex. 7/16&quot; n.c. x 3 1/2&quot; GR5</td>
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O/L = Obtain Locally
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<tr>
<th>Ref. Réf.</th>
<th>English description</th>
<th>Description française</th>
<th>Qty. Qté.</th>
<th>Part # Pièce #</th>
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<tr>
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<td>Boulon hex. 1/2&quot; n.c. x 1 1/2&quot; GR5</td>
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<td>Hex. bolt 5/8&quot; n.c. x 1 1/4&quot; GR5</td>
<td>Boulon hex 5/8&quot; n.c. x 1 1/4&quot; GR5</td>
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<td>36</td>
<td>Hex. bolt 5/8&quot; n.c. x 3 1/2&quot; GR5</td>
<td>Boulon hex 5/8&quot; n.c. x 3 1/2&quot; GR5</td>
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<td>Nylon Insert lock Nut M12 x 1.75 GR8.8</td>
<td>Écrou à garniture de nylon M12 x 1.75 GR8.8</td>
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<td>38</td>
<td>Nylon Insert lock Nut 7/16&quot; n.c.</td>
<td>Écrou à garniture de nylon 7/16&quot; n.c.</td>
<td>5</td>
<td>O/L</td>
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<td>Nylon Insert lock Nut 1/2&quot; n.c.</td>
<td>Écrou à garniture de nylon 1/2&quot; n.c.</td>
<td>6</td>
<td>O/L</td>
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<tr>
<td>40</td>
<td>Nylon Insert lock Nut 5/8&quot; n.c.</td>
<td>Écrou à garniture de nylon 5/8&quot; n.c.</td>
<td>4</td>
<td>O/L</td>
</tr>
<tr>
<td>41</td>
<td>Nylon insert lock nut 5/8&quot; n.c. (thin)</td>
<td>Écrou à garniture de nylon 5/8&quot; n.c. (mince)</td>
<td>4</td>
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<td>Nylon Insert lock Nut 3/4&quot; n.c.</td>
<td>Écrou à garniture de nylon 3/4&quot; n.c.</td>
<td>8</td>
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<td>43</td>
<td>Lock washer 1/2&quot;</td>
<td>Rondelle de blocage 1/2&quot;</td>
<td>2</td>
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<td>44</td>
<td>Flat washer 7/16&quot; hole</td>
<td>Rondelle plate 7/16&quot; trou</td>
<td>4</td>
<td>O/L</td>
</tr>
<tr>
<td>45</td>
<td>Flat washer 13/16&quot; hole</td>
<td>Rondelle plate 13/16&quot; trou</td>
<td>2</td>
<td>O/L</td>
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<tr>
<td>46</td>
<td>Decal pinch point</td>
<td>Décalque point de pincement</td>
<td>1</td>
<td>105946</td>
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<td>47</td>
<td>Model number</td>
<td>Numéro de modèle</td>
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## PARTS LIST
### DRIVE MECHANISM

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<th>Description française</th>
<th>Qty. Qté.</th>
<th>Part # Pièce #</th>
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<tbody>
<tr>
<td>1</td>
<td>Driveline</td>
<td>Arbre à cardan</td>
<td>1</td>
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<td>2</td>
<td>Half Driveline</td>
<td>Demi-arbre à cardan</td>
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<td>3</td>
<td>Flangette</td>
<td>Flangette</td>
<td>4</td>
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<td>4</td>
<td>Bearing with set screw</td>
<td>Roulement à billes avec vis à pression</td>
<td>2</td>
<td>102755</td>
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<tr>
<td>5</td>
<td>Carriage bolt 5/16&quot; n.c. x 3/4 &quot; GR5</td>
<td>Boulon à carrosserie 5/16&quot; n.c. x 3/4 &quot; GR5</td>
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</tr>
<tr>
<td>6</td>
<td>Nylon Insert lock Nut 5/16&quot; n.c. GR5</td>
<td>Écrou à garniture de nylon 5/16&quot; n.c. GR5</td>
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O/L = Obtain Locally
## PARTS BREAKDOWN
### SHAFT 700642

![Shaft Diagram]

## PARTS LIST
### SHAFT 700642

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<th>Ref. Réf.</th>
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<td>Shaft</td>
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O/L = Obtain Locally
PARTS LIST
SHAFT 700645

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O/L = Obtain Locally
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<th>Description française</th>
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O/L = Obtain Locally
## TORQUE SPECIFICATION TABLE

**GENERAL TORQUE SPECIFICATION TABLE**

*USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN*

**NOTE:** These values apply to fasteners as received from supplier, dry or when lubricated with normal oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.

* Thick nuts must be used with grade 8 bolts

---

### METRIC BOLT TORQUE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Size Screw</th>
<th>Grade No.</th>
<th>Pitch (mm)</th>
<th>Foot Pounds</th>
<th>Newton-Meters</th>
<th>Pitch (mm)</th>
<th>Foot Pounds</th>
<th>Newton-Meters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>M6</strong></td>
<td>4T</td>
<td>1.00</td>
<td>3.6 - 5.8</td>
<td>5.9 - 7.9</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>7T</td>
<td></td>
<td>5.8 - 9.4</td>
<td>7.9 - 12.7</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>8T</td>
<td></td>
<td>7.2 - 10.0</td>
<td>9.8 - 16.8</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>M8</strong></td>
<td>4T</td>
<td>1.25</td>
<td>7.2 - 14.1</td>
<td>11.3 - 17.9</td>
<td>1.00</td>
<td>12 - 17</td>
<td>16.3 - 23.7</td>
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<tr>
<td></td>
<td>7T</td>
<td></td>
<td>17.2 - 24.1</td>
<td>23 - 30.1</td>
<td>19 - 27</td>
<td>25.7 - 36.6</td>
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<td>8T</td>
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<td>27.1 - 35.2</td>
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<td>29.8 - 42</td>
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<td>46.1 - 54.2</td>
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<td>35 - 47</td>
<td>47.4 - 63.7</td>
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<td>38 - 46</td>
<td>51.5 - 62.3</td>
<td>-</td>
<td>40 - 52</td>
<td>54.2 - 70.5</td>
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<td>37.9 - 46.1</td>
<td>1.25</td>
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<td>42 - 55.6</td>
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<td>69.1 - 97.9</td>
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<td>56 - 68</td>
<td>75.9 - 92.1</td>
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<td>57 - 76</td>
<td>77.2 - 99.4</td>
<td>62 - 75</td>
<td>84 - 101.6</td>
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<td>109.9 - 126</td>
<td>90 - 106</td>
<td>122 - 143.6</td>
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<td>157.2 - 176.2</td>
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