

**TOWNSHIP OF AUGUSTA
RFP NO. 2017-02
REQUEST FOR PROPOSAL FOR THE SUPPLY, FABRICATION AND INSTALLATION OF
A 4,000 GALLONS WATER TANK FITTED ON A TENCO ROLL-OFF SYSTEM**

DATE PICKED UP

NAME OF SUBMITTER (FIRM OR INDIVIDUAL)

ADDRESS OF SUBMITTER, INCLUDING POSTAL CODE

TELEPHONE NUMBER

FAX NUMBER

EMAIL ADDRESS

SIGNATURE

NAME OF PERSON SIGNING

POSITION/OFFICE OF PERSON FOR THE
FIRM

Note: If the RFP is submitted by or on behalf of any Corporation, it must be signed in the name of such Corporation by some duly authorized officer or agent thereof. The said officer or agent shall subscribe his own name and office and affix the seal of the corporation thereto.

**(COVER PAGE TO BE FILLED OUT AND SUBMITTED BACK TO THE TOWNSHIP WITHIN
ONE DAY OF BEING PICKED UP. THIS IS SO YOU CAN BE CONTACTED IF THERE ARE
ANY CHANGES YOU NEED TO BE AWARE OF)**

**The Corporation of the
TOWNSHIP OF AUGUSTA**

3560 County Road 26
R.R. #2,
Prescott, ON
K0E 1T0
Tel: 613-925-4231

**RFP No. 2017-02 FOR THE SUPPLY, FABRICATION AND INSTALLATION
OF A 4,000 GALLONS WATER TANK FITTED ON A TENCO ROLL-OFF
SYSTEM**

Request for Proposal Closing Date: Friday, March 31, 2017 at 1:00 PM

**TOWNSHIP OF AUGUSTA
RFP NO. 2017-02**

3560 County Road 26, RR 2
Prescott, ON K0E 1T0

Telephone: 613-925-4231
Fax: 613-925-3499

**Request for Proposal for the Supply, Fabrication and Installation of a 4,000 Gallons
Water Tank Fitted on a Tenco Roll-Off System**

Closing Date is Friday, March 31, 2017 at 1:00 PM

Overview

The Corporation of the Township of Augusta is seeking proposals from experienced suppliers to carry out the supply, fabrication and installation of a 4,000 gallons water tank fitted on a Tenco roll-off system. The 4,000 gallons water tank will be mounted on a 2014 Freightliner 114SD plow truck with existing roll-off, for the summer operations. The primary function of the water tank will be for washing bridge decks, dust abatement and grading operations. The scope of work is as per the project details below, but may vary somewhat to meet the Township's needs without affecting the performance of the plow truck.

The work will be conducted under the direction of the Public Works Manager for the Township of Augusta.

Any document submitted with respect to this RFP will be subject to the Municipal Freedom of Information and Protection of Privacy Act.

Project Details:

Item 1: 4,000 Gallons Water Tank Specification

- Supply, fabrication and installation of 4,000 gallons water tank with baffle components and accessories on a 2014 Freightliner 114SD plow truck with existing roll-off system.
- Water tank must be installed on rail system to be mounted on Tenco roll-off system.
- Water tank to be painted yellow on the outside and epoxy coated inside if steel is being proposed. Also, the water tank can be stainless steel or aluminium.
- Rear mount spray bar.
- Water flow meter compatible with Dickey John controller.
- Rear mount hose reel with 50 feet of heavy duty hose.
- Rear Lateral, Rear amber LED strobe and regulation lighting (Ontario).
- PTO driven water pump for self loading from dry hydrant and/or any water body source.
- Water level indicator, Intake suction hose with screen (\pm 50 feet) and dry hydrant adapters.
- Ensure that 2014 Freightliner 114SD is not overweight with a full water tank.
- Water tank and components must conform to ASTM standards.
- Documentation and parts list for tank, pump and accessories, etc.
- Tender package shall form part of the scope of work.
- A detailed RFP shall be submitted for the 4,000 gallons water tank and components that will form part of the system to the Township of Augusta for review.
- Freightliner 114SD: Front Axle 22,000 lbs, Rear Axle 46,000 lbs.
- All materials supplied must be new.
- The water tank system can't affect the performance of the plow truck.

Appendix A

- 2014 Freightliner 114SD Vehicle Data.
- Tenco 30T Municipal Roll-Off – Model:MSJCB30T
- Les Machineries Saint-Jovite Inc. – MSJ Roll-off Owner's Manual

Completion Date

Work will commence upon award of contract and completed within a two weeks time frame.

Acceptance

Acceptance of the successful RFP conforming to the required documents shall be at the sole discretion of the Township.

General Information

The proposal shall be submitted in a sealed envelope that is clearly identified as to the contents, consultant/contractors name and closing time for which it is to be submitted.

Quotations signed and dated will be received by the Township no later than 1:00 pm on the date specified. Quotations shall be typed or neatly handwritten in ink.

Quotations submitted after the specified time will be returned to the bidder unopened. Fax submissions will not be accepted or considered. Quotations which are incomplete, conditional or obscure, or which contain additions not called for, or erasures, alterations or irregularities of any kind, may be rejected as informal.

All quotations are prepared at the sole risk and cost of the bidder. No payment will be made to any bidder regarding the preparation and submission of the quotation.

Requirements for Bidders

All Proposals Must Include:

- Proposal/quotes to be submitted with details, supplies and equipment intended for use (if applicable).

The RFP submissions must be submitted in a sealed envelope **clearly marked** with the contractor or company name, address and the following:

**RFP No. 2017-02 Request for Proposal for Supply, Fabrication and Installation of a
4,000 Gallons Water Tank Fitted on a Tenco Roll-Off System**

Ray Morrison, CAO/Treasurer
3560 County Road 26, R.R. #2,
Prescott, ON K0E 1T0
Tel: 613-925-4231

The cover page containing contact information must be returned to the Township within one day

of picking up the forms in order to contact you if there are any changes you need to be aware of.

Bids are to be submitted before: **1:00 PM, on Friday, March 31, 2017.** There will be no RFP opening on the closing date.

All submissions must be in original, hard copy form. (Facsimile, email or other forms of transmissions will not be accepted without prior approval from the Township).

In order for an RFP to be deemed acceptable and receive further consideration it must be:

- Received prior to the closing time and date
- Legible and completed in ink or be typewritten
- Unqualified, unconditional and unaltered
- Properly signed, and witnessed
- Attendance at site visit mandatory (if applicable)
- Returned cover page mandatory

Inquiries During Bidding Period

Inquiries relative to the RFP documents shall be directed to:

Mike Riberdy
Public Works Manager
3560 County Road 26, RR#2
Prescott, ON
K0E 1T0
613-213-8791
mriberdy@augusta.ca

Alteration of Bids

A Bid may be altered by submitting another bid at any time up to the specified time and date for bid closing. The last bid received shall supersede and invalidate all Bids previously submitted by the Bidder for that Contract.

No information provided orally by the Township or its staff shall be binding nor shall it alter the requirements in any way.

Withdrawal of Bids

The Bidder may withdraw the Bid at any time up to the specified time and date for Bid closing by submitting a letter bearing the Bidder's signature to the CAO.
Faxes or telephone calls shall not be accepted.

Unbalanced Bids

Bids that contain prices which appear to be so unbalanced that they may adversely affect the interests of the Township of Augusta may be rejected; each item bid shall be a reasonable price for such work.

Bids With Discrepancies

Wherever the amount Bid for an item does not agree with the extension of the quantity and the unit price, the unit price shall govern and the amount and the Total Bid Price shall be corrected accordingly.

Mathematical discrepancies shall be corrected by the Township of Augusta by appropriate means to arrive at the correct Total Bid Price. Where an error has been made in transferring an amount from one part of the Bid to another, the amount shown before transfer shall, subject to any corrections as provided for above, be taken to be correct, and the amount shown after transfer and the Total Bid Price shall be corrected accordingly.

Acceptance or Rejection of Bids

The Township of Augusta reserves the right to reject any or all Bids, for any reason whatsoever and to accept only Bids considered best for its interest and to waive formalities as the interests of the Township of Augusta may require without stating reasons, therefore, the lowest or any Bid may not necessarily be accepted.

The Township of Augusta shall not be liable for any costs, expenses, loss or damage incurred, sustained or suffered by any Bidder prior, or subsequent to, or by reason of the acceptance or the non-acceptance by the Township of Augusta of any Bid, or by reason of any delay in the acceptance of a Bid, unless as specifically provided in these Documents.

The Bid shall be irrevocable for a period of thirty days following the date of Bid Closing.

Cancellation of Contract

The bidders agree to save harmless, the Township of Augusta from any or all claims for monetary or any other types of compensation by the bidder if this contract is not awarded.

Contract Award Procedures

The Township of Augusta shall notify the successful Bidder that the Bid has been accepted within 30 Days of the RFP closing. The Township of Augusta reserves the right to not necessarily accept the lowest bid.

Notice of acceptance of Bid may be by telephone and facsimile transmission or by mail.

BIDDERS INFORMATION – TOWNSHIP OF AUGUSTA

RFP No. 2017-02 Request for Proposal for Supply, Fabrication and Installation of a 4,000 Gallons Water Tank Fitted on a Tenco Roll-Off System

1.0 The Work

Supply, fabrication and installation of a 4,000 gallons water tank fitted on a Tenco roll-off system that is mounted on a 2014 Freightliner 114SD plow truck. The 4,000 gallons water tank and components must conform to ASTM standards and all pertinent industry standards. All materials supplied must be new and supplier shall certify that the plow truck is within legal limits to operate on Municipal and Provincial highways with a full water tank.

2.0 Taxes

The Harmonized Sales Tax (HST) is to be included in the bid prices, if applicable, but as a separate line item.

3.0 Qualification Information

The Township reserves the right to require any Bidder to submit qualification information prior to the award of the Contract which qualification information shall be included in the submission of evidence of the capability of the Bidder to carry out and to maintain properly the work, together with details of the qualifications of the Bidder's staff that may be employed in the execution of the Contract.

4.0 Quote Submissions

The Bidder must submit the quote bid in a sealed envelope, and must deliver such quote so that it is in the hands of the Township of Augusta, as designated in Request for Quote within the time and at the location specified.

5.0 Acceptance or Rejection of Quotes

Under no circumstances will the Township consider a quote which is not received at the address given in the Invitation to Quote, within the time prescribed, and not properly signed and sealed in an envelope.

The Township has the unqualified right to accept or reject any quote or all quotes, and to waive the formalities in any quote documents as the interest of the Township may require; without giving any reason for such action.

6.0 Examination of the Site

Each bidder must visit and examine the site requiring work and obtain a clear and comprehensive knowledge of the conditions, limitations and scope of the various jobs required.

7.0 Changes in Work

Additional work shall not be done nor shall other changes to the Contract be made without receiving prior written authority from the Township.

8.0 No Additional Payment for Increased Costs

The amount payable to the Contractor under the Contract will not be increased or decreased by reason of any increase or decrease in the cost of the Work brought about by any increase or decrease in the cost of plant, equipment, labour, materials, or the wages set out and prescribed herein.

9.0 Correction of Faulty Work

The Contractor shall rectify defects in the Work caused by faulty workmanship or materials for which it shall have received notice from the Township.

10.0 Acceptability of Work

All work performed by the Contractor shall be completed to the entire satisfaction of the Township.

END OF BIDDERS INFORMATION

GENERAL CONDITIONS – TOWNSHIP OF AUGUSTA

1.0 Insurance

The Contractor shall keep in force for the duration of the Contract, **Public Liability and Property Damage Insurance in an amount not less than \$2,000,000.00** without limiting the foregoing; such insurance coverage shall include Comprehensive General Liability, Contractual Liability, Personal Injury and Contingent Liability with respect to Sub-Contractors.

2.0 Workplace Safety & Insurance Board Certificate of Clearance

The Contractor shall produce a Workplace Safety & Insurance Board Certificate of Clearance Form from time to time when requested by the Township and prior to final payment under the Contract. If the Contractor is unable to produce clearance as required because it claims it is an independent operator, with no insurable workers and is otherwise unable to obtain a clearance, it shall submit to the Township written confirmation from the Workplace Safety & Insurance Board of its status as an independent operator for the Contract, within seven (7) business days of receipt by the Contractor of the notification of the award. If the Contractor does not produce such confirmation, the Township may, at its sole option, terminate the Contract.

3.0 Assignment

The Contractor shall not assign the Contract or the proceeds without the written consent of the Township.

4.0 Taking the Work Out of the Contractor's Hands

- 1) Where the Contractor becomes bankrupt or insolvent, delays commencing or diligently executing the Work, abandons the Work or has otherwise failed to perform any of the provisions of the Contract, the Township may, without previous notice and without process or suit of law, take the work out of the hands of the Contractor and have it completed by whatever means are considered necessary. In addition to any other remedy available in law or equity, the Township may use all monies due on the Contract to correct or complete the work.
- 2) Where the work or any part thereof has been taken out of the Contractor's hands, the Contractor shall not be entitled to any further payment, including payments then due and payable but not paid, and the obligation of the Township to make payments shall be at an end, and the Contractor shall be liable upon demand of the Township to pay the Township an amount equal to all loss and damage suffered by the Township by reason of the non-completion of the Work by the Contractor.

5.0 Indemnity

The Contractor shall indemnify and save harmless the Township and its respective officers and agent from all claims, demands, losses, costs, damages, actions, suits or proceedings by whomsoever made, occasioned by or attributed to the activities or omissions of the Contractor or those for whom the Contractor is responsible in performing the Contract.

6.0 Interpretation

If any question arises regarding meaning, intent or other matter required by the Contract, the question shall be decided by the Township.

7.0 Permits, By-Laws

The Contractor agrees to abide by all laws, rules, regulations, by-laws, ordinances and legal requirements, codes and orders of the municipality where the project is situated.

8.0 Co-Operation

The Contractor agrees to co-operate with the Township and arrange for all work to be expedited with the minimum of inconvenience to all parties, and report in writing any difficulties encountered in expediting the work.

9.0 Protection

The Contractor agrees to provide adequate protection to public and property (flashing blue light, back up beeper, etc.) and to use caution to protect existing buildings, equipment, plant materials, lawns, etc., from any damages resulting from performing work on this Contract. Any damages to be repaired without costs to the Township.

10.0 Integrated Accessibility Standards Regulation (IASR)

Pursuant to the Accessibility for Ontarians With Disabilities Act, 2005, Regulation 191/11 (the Act), the Contractor shall ensure that all of their employees, agents, volunteers, or others who will be involved in providing service on behalf of the Township, receive training about the provision of goods and services provided to people with disabilities.

END OF GENERAL CONDITIONS

RFP NO. 2017-02
REQUEST FOR PROPOSAL FOR THE SUPPLY,
FABRICATION AND INSTALLATION OF A 4,000 GALLONS
WATER TANK FITTED ON A TENCO ROLL-OFF SYSTEM

TERMS OF SERVICE AGREEMENT BETWEEN:

The "**Corporation of the Township of Augusta**"
(hereinafter referred to as the "**Township**")

and

(hereinafter referred to as the "**Contractor**")

This agreement is for the supply, fabrication and installation of a 4,000 gallons water tank fitted on a Tenco roll-off system for the RFP amount of \$ _____ plus applicable taxes. The work is as per the project details attached on page 3.

Signed at Maynard this _____ day of _____ 2017

Corporation of the Township of Augusta

NAME & POSITION

SIGNATURE

NAME & POSITION

SIGNATURE

Contractor: _____

NAME & POSITION

SIGNATURE

APPENDIX A

Sales Adviser: Vehicle Data Code Inquiry

Serial: FZ6459	Bid: 1	H Qty: 1	VIN: 1FVHG3DV44EHFZ6459
Split Range: FZ6459/FZ6459	TSO No: DR1484	Customer: TENCO MACHIN	
Pilot: N 006	Open TCO: N 006	Coordinator: UNKNOWN	Customer: BRUNO CABANA
Status: RTL SOLD	Status Date: 02/06/2014	Shipping/Pricing	Transit Start
Order Recvd: 10/30/2013	Request Date: 12/14/2013	Est. Arrival: 01/23/2014	Dir Recvd: 01/23/2014
Latest Accept: 12/14/2013	Completion: 01/23/2014	Specn Dt: 01/03/2014	Invoice Dt: 01/10/2014
Orig Project: 11/07/2013	Order Rise: 11/07/2013	DRIVEABLE	Retail Sale: 02/06/2014
Ship Method: CAMIONS FTL/STL	5770 PLACE KUBOTA	DRUMMONDVILLE	Price Level: PRL-07D
819-474-2264	BRUNO CABANA	UCK, LATE DELIVERY FEE WILL	BE CHARGED
Approval: TCO	Date:	Approval:	Returned:
PDI	Received:	PDI	Received:
Approval: TCO	Date:	Approval:	Returned:

DBCode OTCO Notes Description
 PRICING IS NOT AVAILABLE FOR THIS REPORT
 Value

PRL-07D	PRICE LEVEL INFORMATION
SD PRL-07D (EFF:09/18/13)	GENERAL APPLICATION INFORMATION
AA1-002	TRUCK CONFIGURATION
AA6-033	DOMICILED, CANADA (QUEBEG)
A85-011	CONSTRUCTION SERVICE
AA3-018	FRONT FLOW/END DUMP BODY
AA2-998	NO TRAILER SPECIFIED
AH6-998	NO TRAILERS
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN
AB5-001	TRANSIT, IS SPENT ON PAVED ROADS
	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MO
	ST SEVERE IN-TRANSIT (BETWEEN SITES) ROA
	D SURFACE
AB1-008	MAXIMUM 8% EXPECTED GRADE
AA4-010	DIRT/SAND/ROCK COMMODITY
A84-1R0	ROAD AND HIGHWAY MAINTENANCE BUSINESS
	SEGMENT

Code	Description	Value	Unit
A66-99D	EXPECTED FRONT AXLE(S) LOAD	22000	LBS
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD	46000	LBS
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY	68000	LBS
A70-99D	EXPECTED GROSS COMBINATION WEIGHT	0	LBS
AC8-99D	CALCD BACK OF CAB TO REAR SUSP C/L (CA)	150	IN
AL8-99D	CALCD CAB TO BODY (INCL 2" CLEARANCE)	15.78	IN
A88-99D	EXPECTED TRUCK BODY LENGTH	0	IN
AL4-99D	CALCD FRAME LENGTH BACK OF CAB	239.567	IN
AL6-99D	CALCD BODY AFT OF EOF (+=BODY OVERHANG)	-223.787	IN
AM1-99D	CALCD OVERALL LENGTH AT BODY OR EOF	376.398	IN
AC3-99D	CALCD VEHICLE SPEED @ GOVERNED ENG RPM	82.98	MPH
A89-99D	BRAKING-EXPECTED CAB TO BODY CLEARANCE	15	IN
AK2-99D	BRAKING-MAX CG OF LOAD ABOVE FRAME @GVWR	32	IN
AM3-99D	CALCD FRAME HEIGHT @ REAR SUSP-EXP LOAD	39.887	IN
AR1-99D	CALD FRAME HT AT FRONT SUSP-UNLADEN	43.235	IN
AR2-99D	CALCD HEADLIGHT HEIGHT-UNLADEN	50.531	IN
AM2-99D	CALCD FRAME HEIGHT @ REAR SUSP-UNLADEN	41.453	IN
AM0-99D	TOP OF FRM TO RR TIRE TOP-UNLD	-0.147	IN
ALG-99D	CALCD CAB HEIGHT ABOVE FRAME	71.761	IN
ALJ-99D	CALCD CAB HEIGHT ABOVE GROUND; EXP LOAD	112.127	IN
ALH-99D	CALCD CAB HEIGHT ABOVE GROUND; UNLADEN	114.996	IN
AF3-2A4	TENCO USA, INC.		
A61-99D	MAXIMUM GVW & AXLE SYSTEM CAPACITIES	22000	LBS
A59-99D	CALCD MAX CAPACITY FRONT AXLE(S) TOTAL	46000	LBS
A60-99D	CALCD MAX CAP PUSHERTAG AXLE(S) TOTAL	0	LBS
A62-99D	RATED MAXIMUM VEHICLE CAPACITY - GVWR	68000	LBS
001-177	BASE MODEL		
004-214	114SD CONVENTIONAL CHASSIS		
004-214	2014 MODEL YEAR SPECIFIED		
995-1AE	FREIGHTLINER LEVEL II WARRANTY		
002-004	SET BACK AXLE - TRUCK		
019-002	STRAIGHT TRUCK PROVISION		
003-001	LH PRIMARY STEERING LOCATION		
003-001	ENGINE		
101-2T1	DETROIT DD13 12.8L 450 HP @ 1800 RPM, 20		
80 GOV RPM, 1650 LB/FT @ 1100 RPM			
2013 ONBOARD DIAGNOSTICS/2010 EPA/CARB/G			
HG14			
99Z-004	VEHICLE IS SUBJECT TO EPA GHG14, DOES NO		
	T HAVE REGULATORY VEHICLE SPEED LIMITER		
99D-011	(VSL) OR AUTOMATIC ENGINE SHUTDOWN (AES)		
	2008 CARB EMISSION CERTIFICATION - CLEAN		
	IDLE (INCLUDES 6X4 INCH LABEL ON LOWER		
	FORWARD CORNER OF DRIVER DOOR)		
28F-007	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC		
	OVER THE ROAD ACTIVE REGENERATION AND DA		
	SH MOUNTED SINGLE REGENERATION REQUEST//		
	NHIBIT SWITCH		
79A-065	65 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD		
79C-998	SPEED LIMIT		
79D-998	NO DRIVER FUEL ECONOMY INCENTIVE		
79E-998	NO PROGRESSIVE SHIFTING		
79F-998	NO LOW RANGE TORQUE PROTECT		
79G-998	NO FLEET MANAGEMENT		
	NO IDLE SHUTDOWN CONFIGURATION		

79K-010	0	0	PTO MODE ENGINE RPM LIMIT - 1300 RPM
79L-009	0	0	PTO MODE THROTTLE OVERRIDE - LIMIT TO 1300 RPM
79M-002	0	0	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED OR PARK BRAKE NOT APPLIED
79N-998	0	0	NO PTO MODE CLUTCH OVERRIDE
79P-009	0	0	PTO RPM WITH CRUISE SET SWITCH - 1200 RPM
79Q-011	0	0	PTO RPM WITH CRUISE RESUME SWITCH - 1300 RPM
79R-998	0	0	NO PTO MODE COOLING FAN
79S-001	0	0	PTO MODE CANCEL VEHICLE SPEED - 5 MPH
79T-001	0	0	PTO MODE RPM INCREMENT - 25 RPM
79U-007	0	0	PTO GOVERNOR RAMP RATE - 250 RPM PER SEC
79V-998	0	0	NO PTO MODE DPF REGEN
79W-001	0	0	ONE REMOTE PTO SPEED
79X-009	0	0	REMOTE PTO SPEED 1 SETTING - 1200 RPM
79Y-998	0	0	NO REMOTE PTO SPEED 2 SETTING
79Z-998	0	0	NO REMOTE PTO SPEED 3 SETTING
80A-998	0	0	NO ALTERNATE ROAD SPEED LIMIT
80B-998	0	0	NO CHECK ENGINE LIGHT ON OVERSPEED
80C-998	0	0	NO ENGINE BRAKE WITH CRUISE CONTROL
80D-998	0	0	NO SOFT CRUISE CONTROL
80E-998	0	0	NO ENGINE FAN WITH RETARDER
80F-998	0	0	NO MAINTENANCE MONITOR
80G-001	0	0	PTO MINIMUM RPM - 600
80H-998	0	0	NO ACCELERATION MANAGEMENT
80J-998	0	0	NO REGEN INHIBIT SPEED THRESHOLD
80R-000	0	0	DRIVELINE TORQUE PROTECTION - ENABLED
84E-000	0	0	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84F-000	0	0	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84G-000	0	0	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84H-000	0	0	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84J-000	0	0	ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84K-000	0	0	ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84L-000	0	0	DYNAMIC SHIFT SENSING AND ACCELERATION RATE MANAGEMENT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE
84N-000	0	0	NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED
13E-001	0	0	ENGINE EQUIPMENT STANDARD OIL PAN

104-998	0	0	ENGINE MOUNTED OIL CHECK AND FILL
133-004	0	0	NO ENGINE OIL DRAIN/SAMPLE
133-004	0	0	ONE PIECE VALVE COVER
014-1C5	0	0	SIDE OF HOOD AIR INTAKE WITH FIREWALL MO
124-1DJ	0	0	UNITED DONALDSON AIR CLEANER AND INSIDE/O
	0	0	UTSIDE AIR WITH SNOW DOOR
	0	0	DR 12V 160 AMP 36-SI BRUSHLESS QUADRAMO
292-072	0	0	NT PAD ALTERNATOR WITH REMOTE BATTERY VO
	0	0	LT SENSE
	0	0	(4) ALLIANCE MODEL 1231, GROUP 31, 12 VO
290-017	0	0	LT MAINTENANCE FREE 4400 CCA THREADED ST
290-017	0	0	UD BATTERIES
281-001	0	0	BATTERY BOX FRAME MOUNTED
282-043	0	0	STANDARD BATTERY JUMPERS
	0	0	LH BATTERY BOX MOUNTED AS FAR AFT AS POS
	0	0	SIBLE, NO GREATER THAN 34 INCHES BACK OF
291-017	0	0	CAB
	0	0	WIRE GROUND RETURN FOR BATTERY CABLES WI
	0	0	TH ADDITIONAL FRAME GROUND RETURN
289-001	0	0	NON-POLISHED BATTERY BOX COVER
33M-998	0	0	NO AUXILIARY POWER DISTRIBUTION MANAGEM
293-058	0	0	NT
	0	0	POSITIVE LOAD DISCONNECT WITH CAB MOUNT
	0	0	D CONTROL SWITCH MOUNTED OUTBOARD DRIV
295-998	0	0	SEAT
180-998	0	0	NO JUMPSTART POST
183-998	0	0	NO CLUTCH
181-998	0	0	NO CLUTCH BRAKE
182-998	0	0	NO CLUTCH RELEASE BEARING LUBE
107-044	0	0	NO CLUTCH RELEASE
152-041	0	0	BW MODEL BA-921 19.0 CFM SINGLE CYLINDER
	0	0	AIR COMPRESSOR WITH SAFETY VALVE
	0	0	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROT
128-002	0	0	ECTION SYSTEM
016-1C2	0	0	JACOBS COMPRESSION BRAKE
	0	0	RH OUTBOARD UNDER STEP MOUNTED HORIZONTA
	0	0	L AFTERTREATMENT SYSTEM ASSEMBLY WITH RH
239-038	0	0	B-PILLAR MOUNTED VERTICAL TAILPIPE
	0	0	11 FOOT 06 INCH (138 INCH+0/-5 INCH) EXH
233-017	0	0	AUST SYSTEM HEIGHT
237-1CR	0	0	STANDARD CURVE BRIGHT UPPER STACK(S)
	0	0	RH CURVED VERTICAL TAILPIPE B-PILLAR MOU
	0	0	NTED ROUTED FROM STEP
23U-002	0	0	13 GALLON DIESEL EXHAUST FLUID TANK
43W-001	0	0	STANDARD DIESEL EXHAUST FLUID SYSTEM COO
30N-001	0	0	LANT PLUMBING
23Z-001	0	0	BASE DIESEL EXHAUST FLUID FILL
	0	0	POLISHED ALUMINIUM DIAMOND PLATE DIESEL E
	0	0	XHAUST FLUID TANK COVER
43X-002	0	0	LH MEDIUM DUTY STANDARD DIESEL EXHAUST F
	0	0	LUID TANK LOCATION
23Y-001	0	0	STANDARD DIESEL EXHAUST FLUID PUMP MOUNT
43Y-001	0	0	ING
	0	0	STANDARD DIESEL EXHAUST FLUID TANK CAP
242-001	0	0	STAINLESS STEEL AFTERTREATMENT DEVICE/MU
273-036	0	0	FLLER/TAIPIPE SHIELD
	0	0	BORG WARNER (KYSOR) REAR AIR ON/OFF ENGI

276-002	0	0	NE FAN CLUTCH AUTOMATIC FAN CONTROL WITH DASH SWITCH A ND INDICATOR LIGHT, NON ENGINE MOUNTED DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/ FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR
118-001	0	0	FULL FLOW OIL FILTER DDC SUPPLIED COOLANT FILTER, ENGINE MOUN TED
266-057	0	0	1500 SQUARE INCH ALUMINUM RADIATOR ANTIFREEZE TO -60F, ETHYLENE GLYCOL PRE- CHARGED SCA HEAVY DUTY COOLANT GATES BLUE STRIPE COOLANT HOSES OR EQUIV ALENT
172-001	0	0	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES
270-016	0	0	RADIATOR DRAIN VALVE
168-998	0	0	NO RADIATOR/OIL PAN GUARD
360-998	0	0	NO FRONT ENGINE PTO
361-998	0	0	NO REAR ENGINE PTO
138-005	0	0	PHILLIPS-TEMPO 1500 WATT/115 VOLT BLOCK HEATER
141-998	0	0	NO COOLANT HEATER - GAS/DSL
166-998	0	0	NO OIL PREHEATER
140-022	0	0	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR
132-998	0	0	NO AIR INTAKE WARMER
155-065	0	0	DELCO 12V 39MT+ HD/OCP STARTER WITH THER MAL PROTECTION AND INTEGRATED MAGNETIC S
342-1M3	0	0	TRANSMISSION & EQUIPMENT ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
352-998	0	0	NO AUXILIARY TRANSMISSION ALLISON VOCATIONAL PACKAGE 145 - AVAILAB LE ON 3000/4000 PRODUCT FAMILIES WITH VO CATIONAL MODEL RDS
84B-012	0	0	ALLISON VOCATIONAL RATING FOR ON/OFF HIG HWAY APPLICATIONS AVAILABLE WITH ALL PRO DUCT FAMILIES
84C-023	0	0	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3 000/4000 PRODUCT FAMILIES ONLY
84D-023	0	0	SECONDARY MODE GEARS, LOWEST GEAR 1, STA RT GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
97G-004	0	0	TRANSMISSION PROGNOSTICS - ENABLED 2013 PUSH BUTTON ELECTRONIC SHIFT CONTROL, DA SH MOUNTED
347-998	0	0	NO CLUTCH HOUSING MATL WATER TO OIL TRANSMISSION COOLER, FRAME MOUNTED
346-003	0	0	TRANSMISSION OIL CHECK AND FILL WITH ELE CTRONIC OIL LEVEL CHECK
368-998	0	0	NO EXTERNAL TRANSMISSION OIL FILTER
341-018	0	0	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSI ON DRAIN, AXLE(S) FILL AND DRAIN
84T-000	0	0	DISABLE - NEUTRAL RANGE ASSIST
84U-000	0	0	DRIVER SWITCH INPUT - DEFAULT - NO SWITC

84V-001	0	0	HES DIRECTION CHANGE ENABLED WITH MULTIPLEXE D SERVICE BRAKES - ALLISON 5TH GEN TRANS
84W-001	0	0	MISSIONS AUXILIARY FUNCTION RANGE INHIBIT WITH MU LTIPLXED SERVICE BRAKES - ALLISON 5TH G
85D-001	0	0	EN TRANSMISSIONS SINGLE INPUT AUTOMATIC NEUTRAL WITH SELE CTOR OVERRIDE WITH MULTIPLEXED PARK BRAK
353-023	0	0	E - ALLISON 5TH GEN TRANSMISSIONS VEHICLE INTERFACE WIRING CONNECTOR WITH OUT BLUNT CUTS, AT END OF FRAME
34C-001	0	0	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED
362-035	0	0	CUSTOMER INSTALLED CHELSEA 277 SERIES PT O
363-001	0	0	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSI ON
375-998	0	0	NO AUXILIARY OIL COOLER
373-998	0	0	NO TRANSEFER CASE
376-998	0	0	NO SHIFT CONTROL, TRANSFER CASE
371-998	0	0	NO AUX TRANS/TRANSFER CASE MTD POWER TAKEOFF
35T-001	0	0	SYNTHETIC TRANSMISSION FLUID (TES-295 CO MPLIANT)
400-1EB	0	0	FRONT AXLE, SUSPENSION & EQUIPMENT MFS-20-133A 22,000# FL1 SINGLE FRONT AXL E
398-998	0	0	NO FRONT AXLE RATIO
389-998	0	0	NO FRONT AXLE DRIVESHAFT
402-078	0	0	MERITOR 16.5X6 Q+ 22,000# CAST SPIDER CA M FRONT BRAKES, DOUBLE ANCHOR, FABRICATE D SHOES
403-002	0	0	NON-ASBESTOS FRONT BRAKE LINING
419-023	0	0	COMMET CAST IRON FRONT BRAKE DRUMS
427-001	0	0	FRONT BRAKE DUST SHIELDS
409-021	0	0	SKF SCOTSEAL PLUS XL FRONT OIL SEALS
408-001	0	0	VENTED FRONT HUB CAPS WITH WINDOW, CENTE R AND SIDE PLUGS - OIL
416-022	0	0	STANDARD SPINDLE NUTS FOR ALL AXLES
405-002	0	0	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS
406-001	0	0	STANDARD KING PIN BUSHINGS
536-055	0	0	TRW THP-60 POWER STEERING WITH RCH45 AUX ILIARY GEAR
537-005	0	0	STEEL STEERING SHAFT
539-003	0	0	POWER STEERING PUMP
534-003	0	0	4 QUART POWER STEERING RESERVOIR
533-001	0	0	OIL/AIR POWER STEERING COOLER
40T-002	0	0	SYNTHETIC 75W-90 FRONT AXLE LUBE
620-068	0	0	23,000# FLAT LEAF FRONT SUSPENSION
619-004	0	0	GRAPHITE BRONZE BUSHINGS WITH SEALS - FR ONT SUSPENSION
629-998	0	0	NO FRONT SWAYBAR
410-998	0	0	NO FRONT SHOCK ABSORBERS
420-058	0	0	REAR AXLE, SUSPENSION & EQUIPMENT RT-46-164 46,000# R-SERIES TANDEM REAR A XLE

424-001	0	0	4.56 REAR AXLE RATIO
424-001	0	0	IRON REAR AXLE CARRIER WITH STANDARD AXL
382-998	0	0	E HOUSING
386-078	0	0	NO (#1) DRIVELINE
388-076	0	0	MXL 18N MERITOR EXTENDED LUBE MAIN DRIVE
388-076	0	0	LINE WITH FULL ROUND YOKES
452-006	0	0	MXL 17N MERITOR EXTENDED LUBE INTERAXLE
452-006	0	0	DRIVELINE WITH FULL ROUND YOKES
878-022	0	0	DRIVER CONTROLLED TRACTION DIFFERENTIAL
878-022	0	0	- BOTH TANDEM REAR AXLES
878-022	0	0	(1) INTERAXLE LOCK VALVE, (1) DRIVER CON
878-022	0	0	TROLLED DIFFERENTIAL LOCK FORWARD-REAR A
87A-001	0	0	XLE VALVE AND (1) REAR-REAR AXLE VALVE
87B-004	0	0	BLINKING LAMP WITH EACH MODE SWITCH, INT
87B-004	0	0	ERAXLE UNLOCK DEFAULT WITH IGNITION OFF
87B-004	0	0	BLINKING LAMP WITH EACH MODE SWITCH, DIF
87B-004	0	0	FERENTIAL UNLOCK WITH IGNITION OFF, ACTI
423-020	0	0	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR B
423-020	0	0	RAKES, DOUBLE ANCHOR, FABRICATED SHOES
423-020	0	0	NON-ASBESTOS REAR BRAKE LINING
434-005	0	0	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE
434-005	0	0	OF DRIVE AXLE(S) WITH AUXILIARY SUPPORT
451-023	0	0	BRACKETS
451-023	0	0	CONMET CAST IRON REAR BRAKE DRUMS
425-002	0	0	REAR BRAKE DUST SHIELDS
440-021	0	0	SKF SCOTSEAL PLUS XL REAR OIL SEALS
426-075	0	0	HALDEX GOLDSEAL LONGSTROKE 2-DRIVE AXLES
428-002	0	0	SPRING PARKING CHAMBERS
428-002	0	0	MERITOR AUTOMATIC REAR SLACK ADJUSTERS
41T-002	0	0	SYNTHETIC 75W-90 REAR AXLE LUBE
622-199	0	0	AIRLINER 46,000# REAR SUSPENSION
034-998	0	0	NO REAR SUSPENSION PACKAGE
621-007	0	0	AIRLINER HIGH POSITION RIDE HEIGHT
431-005	0	0	RESTRAINED AXLE SEATS IN AXLE CLAMP GROU
624-016	0	0	51 INCH AXLE SPACING
628-998	0	0	NO SUSPENSION BEAMS
888-048	0	0	MANUAL DUMP VALVE FOR AIR SUSPENSION WIT
87D-006	0	0	H GAUGE
87D-006	0	0	INDICATOR LIGHT FOR EACH REAR SUSPENSION
910-001	0	0	CONTROL SWITCH
910-001	0	0	SINGLE AIR REAR SUSPENSION LEVELING VALV
623-002	0	0	TRANSVERSE CONTROL RODS
630-998	0	0	NO REAR SUSPENSION STABILIZER
625-998	0	0	NO REAR SUSPENSION OPTIONS
439-005	0	0	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM
035-998	0	0	(AIR RIDE SUSPENSION)
443-998	0	0	NO DEAD AXLE PACKAGE
456-998	0	0	NO PUSHER OR TAG AXLE
457-998	0	0	NO PUSHER/TAG BRAKES
448-998	0	0	NO BRAKE LINING-PUSHER/TAG(SCO)
429-998	0	0	NO REAR BRAKE DRUMS/ROTORS FOR PUSHER/TAG
442-998	0	0	NO PUSHER/TAG BRAKE DUST SHIELDS
442-998	0	0	NO PUSHER OR TAG OIL SEALS

445-998	0	0	NO PUSHER OR TAG HUB CAPS
458-998	0	0	NO PUSHER OR TAG BRAKE CHAMBERS
626-998	0	0	NO PUSHER OR TAG SUSPENSION
627-998	0	0	NO PUSHER/TAG AXLE SPACING
874-998	0	0	NO PUSHER/TAG AXLE LIFT
896-998	0	0	NO PLUMBING FOR LIFT AXLE
87F-998	0	0	NO LIFT AXLE WIRING/LOGIC
490-100	0	0	BRAKE SYSTEM
871-001	0	0	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL
904-001	0	0	REINFORCED NYLON, FABRIC BRAID AND WIRE
412-001	0	0	BRAID CHASSIS AIR LINES
46D-002	0	0	FIBER BRAID PARKING BRAKE HOSE
413-002	0	0	STANDARD BRAKE SYSTEM VALVES
432-003	0	0	STANDARD AIR SYSTEM PRESSURE PROTECTION
480-009	0	0	STD U.S. FRONT BRAKE VALVE
483-003	0	0	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE
479-015	0	0	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER
460-058	0	0	BENDIX OIL COALESCING FILTER FOR AIR DRY
476-998	0	0	ER
481-998	0	0	AIR DRYER FRAME MOUNTED
914-998	0	0	STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION
46A-998	0	0	NO AUXILIARY AIR TANK
607-005	0	0	CLEAR FRAME RAILS 36 INCHES FROM BACK OF CAB OUTBOARD OF BOTH FRAME RAILS
477-001	0	0	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS
485-998	0	0	NO EXTERNAL CHARGING GLADHAND
481-998	0	0	NO TRAILER AIR HOSE
476-998	0	0	NO AIR HOSE HANGER
914-998	0	0	NO PLUMBING FOR AIR TO END OF FRAME
919-998	0	0	NO OPTIONAL CHASSIS AIR SYSTEM PIPING, VALVES, OR AIR UNLOADER SYSTEM
484-998	0	0	NO TRAILER CABLE AND GLAD HANDS STORAGE
296-998	0	0	NO SPECIAL PRIMARY RECEPTACLE WIRING
297-998	0	0	NO TRAILER CABLE RECEPTACLE
335-004	0	0	UPGRADED CHASSIS MULTIFLEXING UNIT
331-998	0	0	NO SUPPLEMENTAL J560 7-WAY TRAILER ABS RECEPTACLE
303-998	0	0	NO ADDITIONAL TRAILER CABLE RECEPTACLE
334-998	0	0	NO ADDITIONAL SUPPLEMENTAL 7-WAY TRAILER CABLE RECEPTACLE
310-998	0	0	NO TRAILER ELECTRICAL CABLE
545-547	0	0	FRAME & WHEELBASE
546-102	0	0	5475MM (216 INCH) WHEELBASE
547-034	0	0	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.1MMX282.6MM/0.437X11.13 INCH) 120KSI PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION
548-803	0	0	BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW
549-002	0	0	24 INCH INTEGRAL FRONT FRAME EXTENSION
552-054	0	0	2275MM (90 INCH) REAR FRAME OVERHANG

Code	Description	Value	Unit
553-001	CALC'D FRAME SLOPE @ FRT/RR SUSP RATINGS	-0.14	%
550-001	SQUARE END OF FRAME	0	
559-001	FRONT CLOSING CROSSMEMBER	0	
562-001	STANDARD MIDSHP #1 CROSSMEMBER(S)	0	
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER	0	
572-001	STANDARD REAR MOST CROSSMEMBER	0	
AL5-99D	CALC'D BUMPER TO REAR TOWING C/M FACE	376.398	IN
587-998	NO REAR TOWING DEVICE	0	
588-998	NO REAR TOW DEVICE HEIGHT	0	
674-998	NO LH OR RH BACK OF CAB ACCESS	0	
592-998	NO DECK PLATE	0	
556-1E6	14 INCH CHROMED STEEL BUMPER	0	
557-998	NO BUMPER STEP(S)	0	
558-001	FRONT TOW HOOKS - FRAME MOUNTED	0	
55E-998	NO BUMPER MOUNTING BRACKETS	0	
642-998	NO BUMPER/FENDER MOUNTED SIGHT RODS	0	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE	0	
585-998	NO MUDFLAP BRACKETS	0	
590-998	NO REAR MUDFLAPS	0	
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS	0	
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS	0	
583-998	NO REAR QUARTER FENDERS	0	
794-998	NO JACK OR WHEEL WRENCH PROVISION	0	
795-998	NO TOOLS	0	
605-998	CHASSIS,MISC CUSTOM REQUIREMENTS-NONE	0	
606-998	NO TRUCK BODY	0	
601-998	NO BODY BUILDER DIAGRAMS	0	
970-998	NO BODY TYPE	0	
578-998	FIFTH WHEEL & EQUIPMENT	0	
577-998	NO FIFTH WHEEL LOCATION	0	
580-998	NO ADDITIONAL FIFTH WHEEL DRILLINGS	0	
582-998	NO FIFTH WHEEL LEG HEIGHT	0	
570-998	NO FIFTH WHEEL MOUNTING	0	
890-998	NO FIFTH WHEEL PLUMBING	0	
579-998	NO FIFTH WHEEL RELEASE/INST.	0	
591-998	NO FIFTH WHEEL ADD-ONS	0	
581-998	NO FIFTH WHEEL RAMP	0	
206-998	FUEL TANK(S) & EQUIPMENT	0	
201-998	NO RH AUXILIARY FUEL TANK	0	
204-154	80 GALLON/302 LITER ALUMINUM FUEL TANK - LH	0	
200-998	NO LH AUXILIARY FUEL TANK	0	
230-998	NO BETWEEN RAIL FUEL TANK	0	
203-998	NO HYDRAULIC OIL TANK	0	
218-006	25 INCH DIAMETER FUEL TANK(S)	0	
215-006	POLISHING OF FUEL/HYDRAULIC TANK(S) WITH POLISHED STAINLESS STEEL BANDS	0	
212-007	FUEL TANK(S) FORWARD	0	
231-998	NO FUEL TANK MTG BETWEEN RAILS	0	
232-998	NO ADDITIONAL FUEL PROVIDED	0	
664-002	POLISHED STEP FINISH	0	
207-998	NO FUEL TANK SCREENS	0	
205-002	CHROME FUEL TANK CAP(S)	0	

122-998	0	0	NO FUEL HEATER
216-020	0	0	NO FUEL/WATER SEPARATOR
202-016	0	0	EQUIFLO INBOARD FUEL SYSTEM
	0	0	HIGH TEMPERATURE REINFORCED NYLON FUEL L
213-998	0	0	NO FUEL LINE INSULATION
221-998	0	0	NO FUEL COOLER
093-0TB	0	0	TIRES
	0	0	MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL
	0	0	FRONT TIRES
094-0DJ	0	0	MICHELIN XDE M/S 11R22.5 16 PLY RADIAL R
	0	0	EAR TIRES
095-998	0	0	NO PUSHER/TAG TIRES
510-998	0	0	NO SPARE TIRE
529-998	0	0	TIRE QTY - PUSHER AXLE: 0
530-998	0	0	TIRE QTY - TAG AXLE: 0
418-045	0	0	HUBS
450-045	0	0	CONMET PRESET IRON FRONT HUBS
449-998	0	0	CONMET PRESET IRON REAR HUBS
	0	0	NO PUSHER OR TAG HUBS
502-091	0	0	WHEELS
	0	0	ACCURIDE 29374A 22.5X12.25 10-HUB PILOT
	0	0	4.75 INSET 10-HAND ALUMINUM DISC FRONT
505-1EF	0	0	WHEELS
	0	0	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PI
	0	0	LOT ALUMINUM DISC REAR WHEELS
509-998	0	0	NO PUSHER/TAG DISC WHEELS
511-998	0	0	NO SPARE WHEEL
51A-998	0	0	NO ADDITIONAL SPARE WHEEL
524-001	0	0	POLISHED FRONT WHEELS: OUTSIDE ONLY
525-001	0	0	POLISHED REAR WHEELS: OUTSIDE OF OUTER W
526-998	0	0	HEELS ONLY
	0	0	NO POLISHED, BRIGHT STANDARD POLISH, CLE
	0	0	AN BUFF OR BRUSHED FINISH PUSHER/TAG WHE
498-011	0	0	ELLS
	0	0	NYLON WHEEL GUARDS FRONT AND REAR ALL IN
829-1A2	0	0	TERFACES
	0	0	CAB EXTERIOR
	0	0	1 1/4 INCH BBC FLAT ROOF ALUMINUM CONVENTI
682-998	0	0	ONAL CAB
784-998	0	0	NO SLEEPER BOX/SLEEPER CAB
783-998	0	0	NO AIR SHIELD OR BRACKETS
782-998	0	0	NO SIDE EXTENDERS
650-008	0	0	NO FRAME SIDE FAIRINGS
705-998	0	0	AIR CAB MOUNTS
648-002	0	0	NO MISCELLANEOUS CUSTOM CAB REQUIREMENTS
	0	0	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GR
754-017	0	0	ILLE
	0	0	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSION
678-001	0	0	S
	0	0	LH AND RH GRAB HANDLES
645-002	0	0	BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL
646-042	0	0	STATIONARY BLACK GRILLE WITH BRIGHT ACCE
	0	0	NTS
65X-003	0	0	CHROME HOOD MOUNTED AIR INTAKE GRILLE
644-006	0	0	FIBERGLASS HOOD WITH ACCESS HATCHES
690-017	0	0	HOOD LINER, ADDED FIREWALL AND FLOOR HEA

727-1AF	0	0	T INSULATION
726-002	0	0	ER LH DECK
728-001	0	0	DUAL ELECTRIC HORNS
657-001	0	0	SINGLE HORN SHIELD
575-001	0	0	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME
327-012	0	0	REAR LICENSE PLATE MOUNT END OF FRAME SWITCH, INDICATOR LIGHT AND WIRING FOR (2) CUSTOMER FURNISHED BEACONS
312-067	0	0	HALOGEN COMPOSITE HEADLAMPS WITH BRIGHT BEZELS
302-047	0	0	LED AERODYNAMIC MARKER LIGHTS
315-998	0	0	NO FOG LIGHTS
311-012	0	0	DAYTIME RUNNING LIGHTS - LOW BEAM ONLY
316-998	0	0	NO SPOTLIGHTS
294-042	0	0	FREIGHTLINER LED FLANGE MOUNTED STOP/TAILTURN LIGHTS WITH SEPARATE INCANDESCENT BACKUP LIGHTS
300-015	0	0	STANDARD FRONT TURN SIGNAL LAMPS SWITCH, INDICATOR LIGHT AND APPROXIMATELY 10 FEET OF WIRE ON CHASSIS RH BACK OF CAB FOR CUSTOMER FURNISHED UTILITY LIGHT (S)
744-1BC	0	0	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE
797-001	0	0	DOOR MOUNTED MIRRORS
796-001	0	0	102 INCH EQUIPMENT WIDTH
743-204	0	0	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS
74A-001	0	0	RH DOWN VIEW MIRROR
74B-998	0	0	NO AUXILIARY MIRROR
712-998	0	0	NO CUSTOM NAMEPLATE
713-998	0	0	NO PERMIT PLAQUE
729-001	0	0	STANDARD SIDE/REAR REFLECTORS
73A-998	0	0	NO REFLECTIVE DEVICES
677-055	0	0	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER
27D-998	0	0	NO ALTERNATING FLASHING HEADLAMP SYSTEM
275-998	0	0	NO EMERGENCY WARNING SIRENS
764-010	0	0	COMPOSITE EXTERIOR SUN VISOR
768-043	0	0	63X14 INCH TINTED REAR WINDOW
661-004	0	0	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS
654-011	0	0	RH AND LH ELECTRIC POWERED WINDOWS
767-998	0	0	NO SIDE WINDOW
769-002	0	0	LOWER RH DOOR WINDOW WITH FRESNEL LENS
663-013	0	0	TINTED WINDSHIELD
659-022	0	0	2 GALLON WINDSHIELD WASHER RESERVOIR WITH REMOTE FILL
647-998	0	0	H FLUID LEVEL INDICATOR, FRAME MOUNTED, NO WINTERFRONT
707-1AK	0	0	CAB INTERIOR
055-004	0	0	OPAL GRAY VINYL INTERIOR
706-026	0	0	INTERIOR CONVENIENCE PACKAGE WITH CB PRO VISION MOLDED PLASTIC DOOR PANEL WITHOUT VINYL

708-026	0	0	INSERT WITH ALUMINUM KICKPLATE LOWER DOOR R MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR
772-006	0	0	BLACK MATS WITH SINGLE INSULATION
785-004	0	0	DASH MOUNTED ASH TRAY(S) WITHOUT LIGHTER
691-008	0	0	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING
694-998	0	0	NO INTERIOR GLOVE BOX/CAB FLOOR STORAGE
696-012	0	0	CENTER STORAGE CONSOLE MOUNTED ON BACKWA L
693-998	0	0	NO INTERIOR DOOR STORAGE
826-998	0	0	NO LOWER BUNK
666-998	0	0	NO BUNK RESTRAINT
738-998	0	0	NO CLOCK
742-007	0	0	(2) CUP HOLDERS LH AND RH DASH
680-007	0	0	GRAY/CHARCOAL WING DASH
860-004	0	0	SMART SWITCH EXPANSION MODULE
720-002	0	0	2-1/2 LB. FIRE EXTINGUISHER
711-998	0	0	NO SMOKE/GAS DETECTOR
714-001	0	0	FIRST AID KIT
700-002	0	0	HEATER, DEFROSTER AND AIR CONDITIONER STANDARD HVAC DUCTING WITH SNOW SHIELD F OR FRESH AIR INTAKE
703-005	0	0	MAIN HVAC CONTROLS WITH RECIRCULATION SW ITCH
689-998	0	0	NO AUXILIARY HVAC UNIT
170-045	0	0	STANDARD HEATER PLUMBING WITH BALL SHUTO FF VALVES AT SUPPLY LINES ONLY
130-033	0	0	DENSO HEAVY DUTY AIR CONDITIONER COMPRES SOR
702-002	0	0	BINARY CONTROL, R-134A
739-034	0	0	PREMIUM INSULATION
285-013	0	0	SOLID-STATE CIRCUIT PROTECTION AND FUSES
280-007	0	0	12V NEGATIVE GROUND ELECTRICAL SYSTEM
324-011	0	0	DOMED DOOR ACTIVATED LH AND RH, DUAL READ ING LIGHTS, FORWARD CAB ROOF
655-005	0	0	LH AND RH ELECTRIC DOOR LOCKS
740-998	0	0	NO MATTRESS
284-023	0	0	(1) 12 VOLT POWER SUPPLY IN DASH
710-998	0	0	NO CAB PRIVACY CURTAIN
722-012	0	0	TRIANGULAR REFLECTORS WITH FLARE HOLDER (FLARES NOT INCLUDED)
756-1D9	0	0	PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRAT ED CUSHION EXTENSION, FORWARD AND REAR C USHION TILT, ADJUSTABLE SHOCK ABSORBER
760-1DC	0	0	BASIC HIGH BACK NON SUSPENSION PASSENGER SEAT
762-998	0	0	NO REAR PASSENGER SEAT
757-998	0	0	NO SEAT SKIRT(S)
759-007	0	0	DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS
711-004	0	0	LH AND RH INTEGRAL DOOR PANEL ARMRESTS NO SEAT OPTIONS
699-998	0	0	NO SEAT OPTIONS
758-025	0	0	GRAY MORDURA CLOTH DRIVER SEAT COVER

755-998	0	0	GRAY MORDURA CLOTH PASSENGER SEAT COVER
763-032	0	0	NO REAR PASSENGER SEAT COVERS
	0	0	3 POINT FIXED D-RING RETRACTOR DRIVER AN
532-002	0	0	D PASSENGER SEAT BELTS
	0	0	ADJUSTABLE TILT AND TELESCOPING STEERING
540-015	0	0	COLUMN
	0	0	4-SPOKE 18 INCH (450MM) STEERING WHEEL
765-002	0	0	DRIVER AND PASSENGER INTERIOR SUN VISORS
870-001	0	0	CONTROLS & INSTRUMENTS
	0	0	BLACK GAUGE BEZELS
732-003	0	0	WOODGRAIN DRIVER INSTRUMENT PANEL
734-003	0	0	WOODGRAIN CENTER INSTRUMENT PANEL
68J-998	0	0	NO SWITCH BLANK - INSTRUMENT PANEL
486-001	0	0	LOW AIR PRESSURE INDICATOR LIGHT AND AUD
838-001	0	0	IBLE ALARM
840-002	0	0	(1) SINGLE BRAKE APPLICATION AIR GAUGE
	0	0	2 INCH PRIMARY AND SECONDARY AIR PRESSUR
198-006	005	0	ENGINE COMPARTMENT MOUNTED AIR RESTRICTI
		0	ON INDICATOR WITH GRADUATIONS, WITH WARN
721-001	0	0	97 DB BACKUP ALARM
149-017	0	0	ELECTRONIC CRUISE CONTROL WITH SWITCHES
156-007	0	0	ON AUXILIARY GAUGE PANEL (B DASH PANEL)
		0	KEY OPERATED IGNITION SWITCH AND INTEGRA
		0	L START POSITION; 4 POSITION OFF/RUN/STA
157-998	0	0	RT/ACCESSORY
		0	NO REMOTE START
811-011	0	0	ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE DI
		0	SPLAY: 1X7 CHARACTER, 26 WARNING LAMPS,
		0	DATA LINKED, ICU3
160-025	0	0	DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, S
844-001	0	0	AE J1939, LOCATED BELOW DASH
	0	0	2 INCH ELECTRIC FUEL GAUGE
845-011	0	0	FUEL FILTER RESTRICTION INDICATOR
148-003	0	0	PROGRAMMABLE RPM CONTROL - ELECTRONIC EN
163-998	0	0	GINE
	0	0	NO ENGINE OPT/RPM CONTROLS WIRING
87L-998	0	0	NO REMOTE ENGINE CONTROL-ENABLE
33U-998	0	0	NO CUSTOMER DEFINED WIRING FUNCTION
866-001	0	0	DUAL REAR AXLE TEMPERATURE GAUGES FOR TA
	0	0	NDEM AXLES
856-001	0	0	ELECTRICAL ENGINE COOLANT TEMPERATURE GA
	0	0	UGE
854-001	0	0	ENGINE OIL TEMPERATURE GAUGE
	0	0	2 INCH TRANSMISSION OIL TEMPERATURE GAUG
864-001	0	0	E
867-019	0	0	INSIDE/OUTSIDE TEMPERATURE GAUGE WITH CH
	0	0	ROME BEZEL AND LCD FAHRENHEIT DISPLAY
830-017	0	0	ENGINE AND TRIP HOUR METERS INTEGRAL WIT
	0	0	HIN DRIVER DISPLAY
438-998	0	0	NO HUBDOMETER
372-051	0	0	CUSTOMER FURNISHED AND INSTALLED PTO CON
	0	0	TROLS
49B-998	0	0	NO VEHICLE STABILITY ADVISOR OR CONTROL
852-002	0	0	ELECTRIC ENGINE OIL PRESSURE GAUGE
679-001	0	0	OVERHEAD INSTRUMENT PANEL
35M-998	0	0	NO WRG-BDY MULTIPLEX EXPNSN UNIT
786-998	0	0	NO POSITIONING/LOCATING SYSTEM

746-1A1	0	0	NO DIGITAL SATELLITE AUDIO RECEIVER ANTE NNA AM/FM/WB RADIO WITH CD PLAYER, IPOD INTE RFACE, AND USB AND FRONT AUXILIARY INPUT
747-001	0	0	DASH MOUNTED RADIO
750-002	0	0	(2) RADIO SPEAKERS IN CAB
753-998	0	0	NO AM/FM RADIO ANTENNA
748-014	0	0	COBRA 29NW LTD CLASSIC FACTORY INSTALLED CB RADIO
749-001	0	0	ROOF/OVERHEAD CONSOLE CB RADIO PROVISION MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM
810-028	0	0	ELECTRONIC KPH SPEEDOMETER WITH SECONDAR Y MPH SCALE, WITHOUT ODOMETER
812-001	0	0	ELECTRONIC 3000 RPM TACHOMETER
813-1B4	0	0	DETROIT CONNECT VIRTUAL TECHNICIAN REMOT E ENGINE DIAGNOSTICS (DETROIT ENGINES ON LY)
81X-001	0	0	2 YEAR SERVICE CONTRACT INCLUDED WITH VI RTUAL TECHNICIAN
80K-998	0	0	NO SHUTDOWN OVERRIDE
80L-998	0	0	NO REGEN SYSTEM TAILORING
80M-998	0	0	NO ALTERNATE PTO SPEED
80N-998	0	0	NO REDUCED ENGINE SPEED ON VSS FAILURE
80P-998	0	0	NO FLEET SPEC FOR PARAMETERIZATION
80Q-998	0	0	NO VEHICLE SPEED LIMIT - GHG
162-002	0	0	IGNITION SWITCH CONTROLLED ENGINE STOP
885-998	0	0	NO CONTROLS-FIRE PUMP
329-017	0	0	THREE ON/OFF ROCKER SWITCHES IN THE DASH WITH INDICATOR LIGHTS AND WIRE ROUTED T O CHASSIS AT BACK OF CAB, LABEL OPT PLACE 2 WIRED BLANK SWITCHES BEHIND DASH.
QUOTE	004 001	004 002	ASSIGNED QUOTE JYCD 1312131426
81Y-001	0	0	PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FL ASH, WITH SMART SWITCH
44R-998	0	0	NO ON/OFF LATCHING SMARTPLEX SWITCH
44S-998	0	0	NO ON/OFF MOMENTARY SMARTPLEX SWITCH
44T-998	0	0	NO ON/OFF LATCHING SMARTPLEX SWITCH
44U-998	0	0	NO ON/OFF/MOMENTARY SMARTPLEX SWITCH
44V-998	0	0	NO PRE-DEFINED SMARTPLEX INDICATOR LAMPS
44W-998	0	0	NO UNDEFINED SMARTPLEX INDICATOR LAMPS
264-998	0	0	NO CONTROLS-SIREN/AIR HORN
482-998	0	0	NO TRACTOR PROTECTION VALVE
883-998	0	0	NO TRAILER HAND CONTROL BRAKE VALVE
836-015	0	0	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DR IVER DISPLAY
660-008	0	0	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR W ITH DELAY
304-039	0	0	MARKER LIGHT SWITCH INTEGRAL WITH HEADLI GHT SWITCH AND DUAL CONNECTORS AND SWITC H FOR CUSTOMER FURNISHED SNOW FLOW LIGHT S, LOW BEAMS OFF WITH HIGH BEAMS
882-009	0	0	ONE VALVE PARKING BRAKE SYSTEM WITH WARN ING INDICATOR
299-013	0	0	SELF CANCELING TURN SIGNAL SWITCH WITH D

TENCO 30T Municipal Roll-Off - Model: MSJCB30T

FEATURES

Two (2) parallel long sills - steel tubes high quality 3-1 / 2 "x 3-1 / 2" x 3/8 ", held by two adjusted angles and the front plate.

Front plate to be 3/4 "high quality steel, strategically cut to fit the cylinder (STD) on one side or the other and to adapt and incorporate all functions.

Hydraulic locking system with (2) 3/4' 6x2" Nitrided cylinders, installed in parallel.

8,000lbs planetary hydraulic winch. Installed between system rails with a Grade 70 cable hook and a greasable roller guide.

Rear PBM03 greaseable hinges welded to the chassis of the truck and bolted or welded to the 2 rails.

Hydraulic hoses with crimped fittings, with a capacity of 3,500 PSI installed inside one of the rails. (Operating pressure 2000 to 2500 PSI).

A female assembly, consisting of two (2) inverted angles (3-1 / 2 "x 4" x 1/4 ") sliding on the frame, with blocking rings welded to the equipment on the tipping frame is welded to each individual piece equipment (dump and spreader).

A system with two (2) Rotary legs will be installed to retain the equipment (dump and spreader) upright during storage.

A set of two split blocks will be used to secure the 2-7/16 "rotary legs on the spreader.

The whole system is adjusted to the truck and the equipment and accessories, according to customer needs.

Quick disconnects for electricity, air, hydraulic equipment will be provided for each equipment and easily accessible at the rear of the cab.

Cleaning & sandblasting according to SSPC-SP6.

One coat - black powder jet # PS311N13.

Colour of female parts of the legs are the same as those of the interchangeable equipment.

Transfer between two (2) equipment shall not exceed ten (10) minutes and that it be safely done, by a single operator.

Training of the system with related equipment will be provided.

The supplier must provide a written guarantee of twelve (12) months. A complete description of the guarantee must accompany the bid

Roll-off serial # : _____

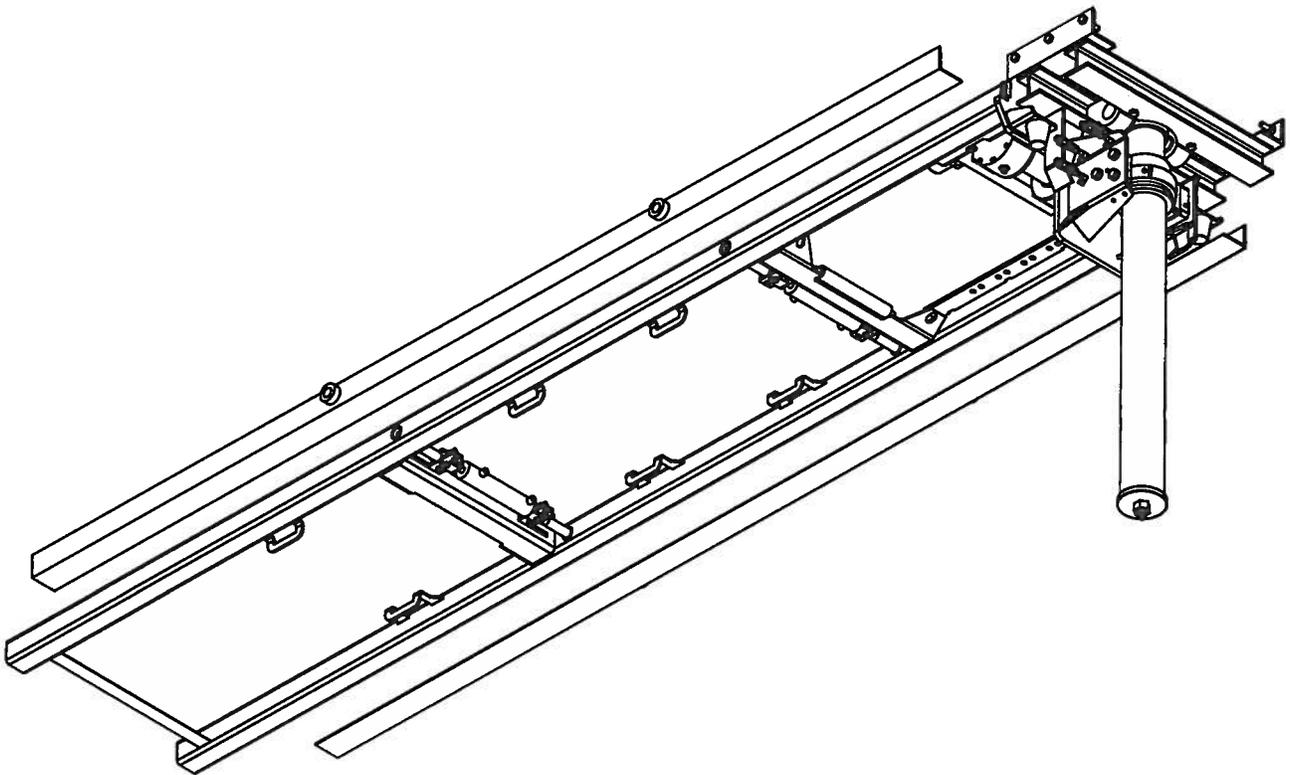
série cadre :

Book # :

Livre # :

MSJ_RO_30-40_AA

CADRE BASCULANT MSJ / MSJ ROLL-OFF
LIVRE DU PROPRIÉTAIRE / OWNER'S MANUAL
30 & 40 Tonnes / 30 & 40 Tons



1313, rue de Saint-Jovite, Mont-Tremblant (Québec), J8E 3J9
Téléphone: (819) 425-3737 Fax: (819) 425-3009 Courriel: info@msjinc.qc.ca

Les Machineries Saint-Jovite inc.



En raison du progrès technique et des améliorations continues apportées à nos équipements, votre équipement comporte peut-être des modifications qui n'apparaissent pas dans la présente publication. En cas de doute sur un détail de votre équipement ou sur le texte de la présente publication, adressez-vous à « Les Machineries St-Jovite inc. »

NOTE :

Les légendes de l'équipement et la section du manuel se trouvent en haut de chaque page. Le numéro du manuel ainsi que la date de révision sont situés dans le bas de chacune des pages. Les renseignements concernant les numéros de série (S/N) qui se trouvent sur la page couverture du livre de pièces doivent être utilisés pour sélectionner les informations exactes pour l'unité en question.

LÉGENDES

Lors des commandes de pièces, mentionnez la quantité, le numéro de pièce, la désignation, le numéro de série de l'équipement et le numéro de révision de votre livre de pièces pour lequel ces pièces sont requises.

« Les Machineries St-Jovite inc. » fournit des pièces de rechange de qualité. Leurs stocks de pièces sont constamment réapprovisionnés et comptent toutes les pièces nécessaires pour assurer le bon fonctionnement de vos équipements.

Lorsqu'il faut remplacer des pièces pour nos produits, il est recommandé d'utiliser les pièces de rechange provenant de « Les Machineries St-Jovite inc. » ou des pièces qui ont des spécifications équivalentes, dont les dimensions physiques, le type, la force et les matériaux. L'observation de cette mise en garde peut entraîner des défaillances prématurées, des dommages au produit ou des blessures pouvant être fatales.

COMMANDE DE PIÈCES

« Les Machineries St-Jovite inc. » a besoin de ces renseignements pour déterminer les composantes incluses sur l'équipement lors de l'assemblage à l'usine. Cela permet d'identifier les numéros de pièces de rechange avec précision.

Les équipements de « Les Machineries St-Jovite inc. » portent des numéros de série. Dans certains cas, des numéros de modification sont aussi utilisés. Ces numéros figurent sur la plaque de numéro de série qui se trouve sur l'équipement.

IDENTIFICATION DE L'ÉQUIPEMENT

PRÉFACE & INFORMATION GÉNÉRALE

POLITIQUE DE GARANTIE

Les Machineries Saint-Jovite inc.



GARANTIE – LES MACHINERIES ST-JOVITE INC.

- L'objectif de « Les Machineries St-Jovite inc. » est de s'assurer que tous les propriétaires obtiendront une efficacité et une performance maximale de leur unité de déneigement.
- Les produits neufs de « Les Machineries St-Jovite inc. » sont garantis contre les défauts de fabrication au niveau de l'assemblage et des matériaux (lorsqu'ils sont assemblés, ajustés, entretenus et utilisés adéquatement) pendant la période de garantie applicable au produit.
- En aucun temps la peinture ne sera couverte pour plus d'un (1) an contre les défauts de fabrication.
- L'obligation de « Les Machineries St-Jovite inc. » sous cette garantie est limitée à la réparation ou au remplacement, à l'usine, de toute(s) pièce(s) qui a (ont) été reportée(s) défectueuse(s), suite à une inspection d'une personne ou d'un détaillant autorisé de « Les Machineries St-Jovite inc. », dans les trente (30) jours suivant le bris. En aucun cas « Les Machineries St-Jovite inc. » n'assurera de responsabilité pour des dommages de toute nature causés par du matériel ou des pièces défectueuses non manufacturées par « Les Machineries St-Jovite inc. » sur un véhicule (camion, camionnette, chargeur, etc.).
- Le client est responsable du transport de son équipement, à ses frais, au point de service autorisé de « Les Machineries St-Jovite inc. » ou remboursera le détaillant pour le transport ou les frais de déplacement nécessaires à l'acquisition de cette garantie.
- Toutes les demandes de garantie doivent être soumises à « Les Machineries St-Jovite inc. » dans les trente (30) jours suivant la réparation. Toute réclamation datant de plus de soixante (60) jours ne sera pas traitée.
- Si des déficiences sur les bâtis métalliques ou des problèmes de soudure sont décelés, une photo doit être prise et jointe à la réclamation de garantie.
- « Les Machineries St-Jovite inc. » se réserve le droit de faire en tout temps des changements ou des améliorations à ses unités sans préavis ou obligations.

COUVERTURE DE LA GARANTIE

- La garantie débute à la date de livraison de l'unité.
- Toutes autres garanties mentionnées avec les devis seront respectées.

GARANTIE EPANDEUR, BENNE, CADRE-BASCULANT ET HARNAIS

- Unité complète: 1 an pièces & main-d'œuvre.

EXCLUSIONS ET/OU MODIFICATIONS DE LA GARANTIE

- **Limitation de la responsabilité.** La responsabilité de « Les Machineries St-Jovite inc. », dans le cas de non-respect des clauses de cette entente de garantie, de tout autre manquement à cette entente ou de toutes autres réclamations concernant des biens fournis par « Les Machineries St-Jovite inc. » dans le cadre de cette entente, ne dépassera en aucun cas le montant payé par le propriétaire à « Les Machineries St-Jovite inc. », pour cette unité.
- **Implications.** En aucun cas, le propriétaire ne pourra être indemnisé pour des dommages accessoires, dommages-intérêts spéciaux ou dommages indirects tels que, mais pas limité à, des pertes de contrats, des pertes de profits ou de revenus, ou toute autre perte commerciale, inconvenients, coût de location ou remplacement d'équipement.
La limitation des dommages et les allégations de dommages accidentels ou indirects contenus dans ce paragraphe s'appliquent à toutes les actions indépendamment des allégations portées contre « Les Machineries St-Jovite inc. » sur la performance ou la non-performance des biens (ou services) ou des obligations de « Les Machineries St-Jovite inc. » sous cette entente.
- **Usure normale, réparation et entretien non reliés à des défauts de fabrication.** La garantie décrite ici n'inclut pas l'usure des composants et est conditionnelle au bon assemblage, à un bon ajustement et à des conditions normales d'utilisation.
Cette garantie ne couvre pas les détériorations dues à la mauvaise utilisation, à la négligence, à l'utilisation de pièces non approuvées par « Les Machineries St-Jovite inc. », à la modification de l'appareil, à un accident ou au non-respect de la charte d'entretien. Le remplacement d'items comme les filtres, les bougies, les courroies, les diaphragmes, les boyaux, etc., n'est pas couvert par cette garantie.
- **Moteurs, batteries, composants hydrauliques, pneus, etc.** Ces items sont garantis par leurs manufacturiers respectifs et non pas par « Les Machineries St-Jovite inc. ». Les demandes de remboursement seront faites aux manufacturiers selon leurs conditions de garantie.
- **Les termes de cette garantie sont assujettis aux lois provinciales et aux lois des états.** « Les Machineries St-Jovite inc. » se réserve le droit de modifier sans préavis cette garantie selon les législations en vigueur.

OBLIGATIONS DU PROPRIÉTAIRE

- **Vérification de l'unité.** Vous êtes tenus de vérifier l'unité avec la liste de vérification présente dans les manuels d'instructions avant de remplir le certificat de garantie.
- **Ajustement.** L'ajustement des équipements selon la hauteur au sol et l'angle d'attaque recommandé par le manufacturier, le resserrément des boulons et écrous, la pression d'opération des systèmes hydrauliques et l'entretien préventif tel que décrit dans le manuel d'opération sont la responsabilité de l'utilisateur. Les réparations nécessaires dues à une mauvaise application ou à un abus des équipements seront à la charge du propriétaire.

- **La garantie sera annulée si aucun numéro de série n'est trouvé sur l'unité.**

- **Coût de transport des unités.** Le transport de l'unité garantie jusqu'à un centre de service autorisé de « Les Machineries St-Jovite inc. » est la responsabilité du propriétaire de l'unité. Les coûts de transport de l'unité, du technicien et tous les autres frais reliés aux déplacements ou au transport devront être assumés par le propriétaire. Le propriétaire devra rembourser les frais de déplacement encourus au détaillant.

- **Entretien et utilisation.** Le manuel d'opérateur qui vous a été remis lors de la livraison de votre unité contient des informations importantes sur l'entretien et l'utilisation de votre unité. Il est important de bien lire le manuel et de suivre toutes les instructions d'entretien et d'utilisation. En appliquant ces instructions, vous serez plus satisfait de votre unité et vous éviterez des problèmes de garantie. Il est important de se rappeler que les bris causés par de mauvais ajustements, un mauvais entretien ou une utilisation incorrecte de votre équipement ne sont pas couverts par la garantie.

- **Allégations & dommages.** La limitation des dommages et les allégations de dommages accidentels ou conséquents contenus dans ces paragraphes s'appliquent à toutes les actions indépendamment des allégations portées contre « Les Machineries St-Jovite inc. » sur la performance ou la non-performance des biens (ou services) ou des obligations de « Les Machineries St-Jovite inc. » sous cette entente.

- **Transport.** Tous les dommages causés aux unités lors du transport doivent être réclamés au transporteur. « Les Machineries St-Jovite inc. » ne sera pas responsable de tout dommage fait lors du transport des unités.

La garantie décrite ci-dessus remplace toutes autres garanties. Le vendeur rejette expressément toutes autres garanties, incluant, sans limitation, toutes autres garanties marchandes.

PÉRIODE DE RÉPARATION ET REMISE EN MARCHÉ

- **Propriétaire opérateur.** L'équipement ne doit être utilisé que par le propriétaire et/ou ses employés uniquement. « Les Machineries St-Jovite inc. » ou ses détaillants autorisés répareront ou remplaceront, selon ses options sans coût de main-d'œuvre, toutes pièces défectueuses de ses appareils.
- **Les pièces de remplacement** seront garanties pour quatre-vingt-dix (90) jours à partir de la date de livraison avec une preuve d'achat et de balance de la garantie originale. Les pièces d'usure normale telles que les bougies, les courtoies, les couteaux, les sabots, les boyaux, etc., ne sont pas couvertes par cette garantie.

Manuel d'utilisation du cadre basculant MSJ

1.0 Règles de sécurité

- La benne ou l'épandeur doit toujours être vidée lors de la manipulation du cadre basculant ;
- La manœuvre doit se faire sur un endroit plat et solide ;
- Toujours arrêter le moteur avant de brancher ou de débrancher tout conduit ;
- S'assurer que les barres hydrauliques soient toujours en place avant d'opérer le camion ;
- Toujours appliquer le frein de stationnement et fermer le moteur avant d'aller sous la benne pour y décrocher le câble ;
- L'interrupteur du pouvoir du cadre basculant doit être en position fermée après l'utilisation du système ;
- Si, lors de l'utilisation du système de cadre basculant, une anomalie est détectée, cesser immédiatement toute opération et contacter votre responsable de la mécanique. En cas de défaillance du système, contacter les Machineries St-Jovite.

2.0 Procédure d'utilisation

2.1 Pour retirer un équipement

- 2.1.1 À l'arrière gauche de la cabine :
- a) Déconnecter tous les branchements électriques ;
 - b) Déconnecter tous les conduits hydrauliques (Faire la boucle du circuit hydraulique) ;
 - c) Relever le tourniquet ;
 - d) Relever la dalle

2.1.2 Faire le tour du camion par l'arrière et s'assurer que l'échelle soit relevée et barée et qu'aucune autre composante ne puisse nuire à la manœuvre.

2.1.3 Avant la descente d'une benne, s'assurer que la bêche (toile) soit enroulée et que le panneau arrière soit fermé et enclenché ;

2.1.4 Installer les béquilles de retenue de chaque côté de la benne ou de l'épandeur.

2.1.5 De retour dans la cabine, démarrer le moteur :

- a) Activer l'interrupteur pour le pouvoir de la benne ou de l'épandeur ;
- b) Activer le pouvoir du cadre basculant ;
- c) Activer l'interrupteur de la benne, monter à 1/2 section du cylindre ;

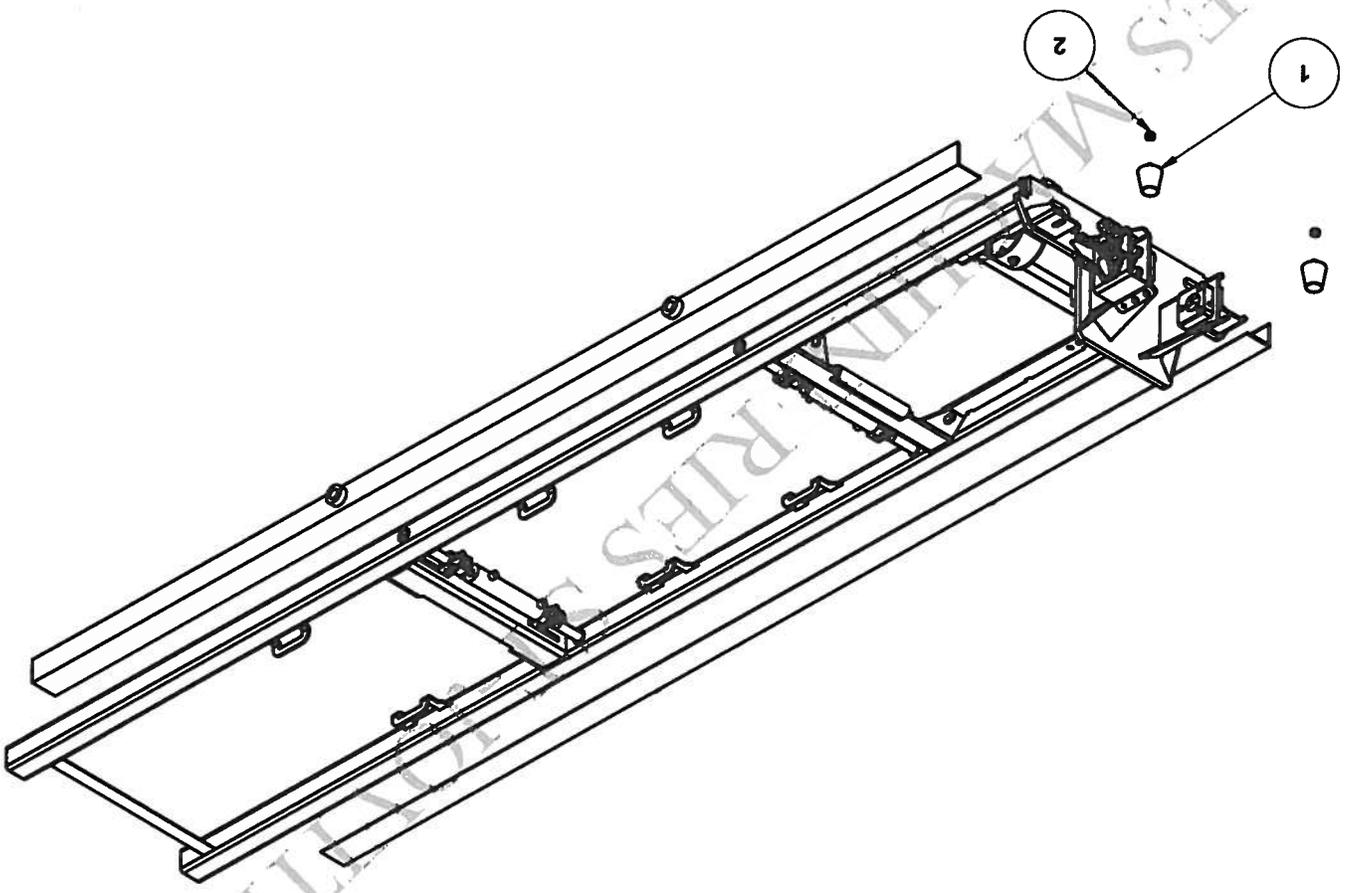
- d) Activer l'interrupteur et tendre le câble du treuil (S'assurer du bon sens de l'enroulement);
- e) Activer l'interrupteur et retirer les barres hydrauliques;
- f) Activer l'interrupteur et dérouler le câble du treuil jusqu'à ce que l'épandeur ou la benne touche le sol.

- 2.1.6 Au contact du sol, enlever le frein de stationnement.
- 2.1.7 Laisser le camion glisser sous la benne ou l'épandeur.
- 2.1.8 Appliquer le frein de stationnement et retirer la clé du contact avant d'aller sous la benne ou l'épandeur.
- 2.1.9 Enlever le câble.
- 2.1.10 Abaisser le cylindre télescopique et avancer doucement.

2.2 Pour installer un équipement

- 2.2.1 Reculer doucement sous la benne ou l'épandeur.
- 2.2.2 Appliquer le frein de stationnement et retirer la clé du contact avant d'aller sous la benne ou l'épandeur.
- 2.2.3 Aller sous la benne ou l'épandeur et installer le crochet du cadre basculant.
- 2.2.4 De retour dans la cabine, démarrer le moteur et à l'aide du treuil, soulever la benne de quelques pouces.
- 2.2.5 Retirer toutes les béquilles de retenue.
- 2.2.6 Effectuer la montée de l'équipement jusqu'au contact avec la butée.
Attention : s'assurer de redescendre le cylindre télescopique à une section juste avant que la benne ne touche la butée.
- 2.2.7 Installer les barres hydrauliques.
- 2.2.8 Redescendre complètement le cylindre télescopique.
- 2.2.9 Installer tous les conduits (hydrauliques, électriques, etc.).
- 2.2.10 Installer la plaque de protection arrière.
- 2.2.11 Effectuer un essai de toutes les fonctions de l'équipement installé.

LDP Roll-Off 7AA



Butée / Rubber Bumper

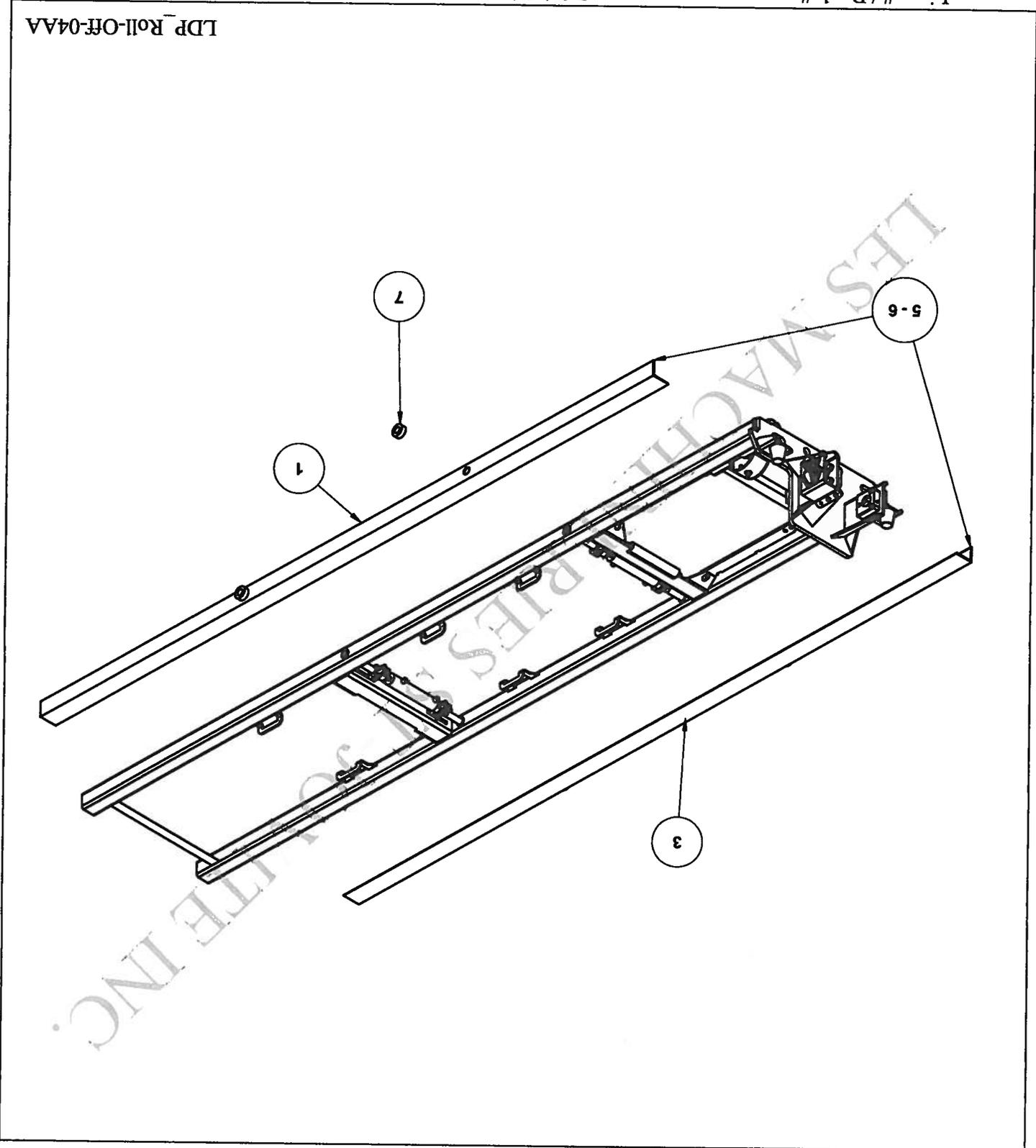
LDP Roll-Off-07AA

LES MACHINERIES ST-JOVITE INC.

No.	Pièce # Part	DESCRIPTION	DESCRIPTION	Qté/Qt
2	580-015P	HN 5/8-NC	HN 5/8-NC	2
1	AC01	BUTÉE	RUBBER BUMPER	2

Butée / Rubber Bumper

Adaptateur Chassis / Frame Adapter



LDP_Roll-Off-04AA

Livre # / Book #
MSJ_RO_30-40_AA

Révisé / Revised
2007-04-18

18/37

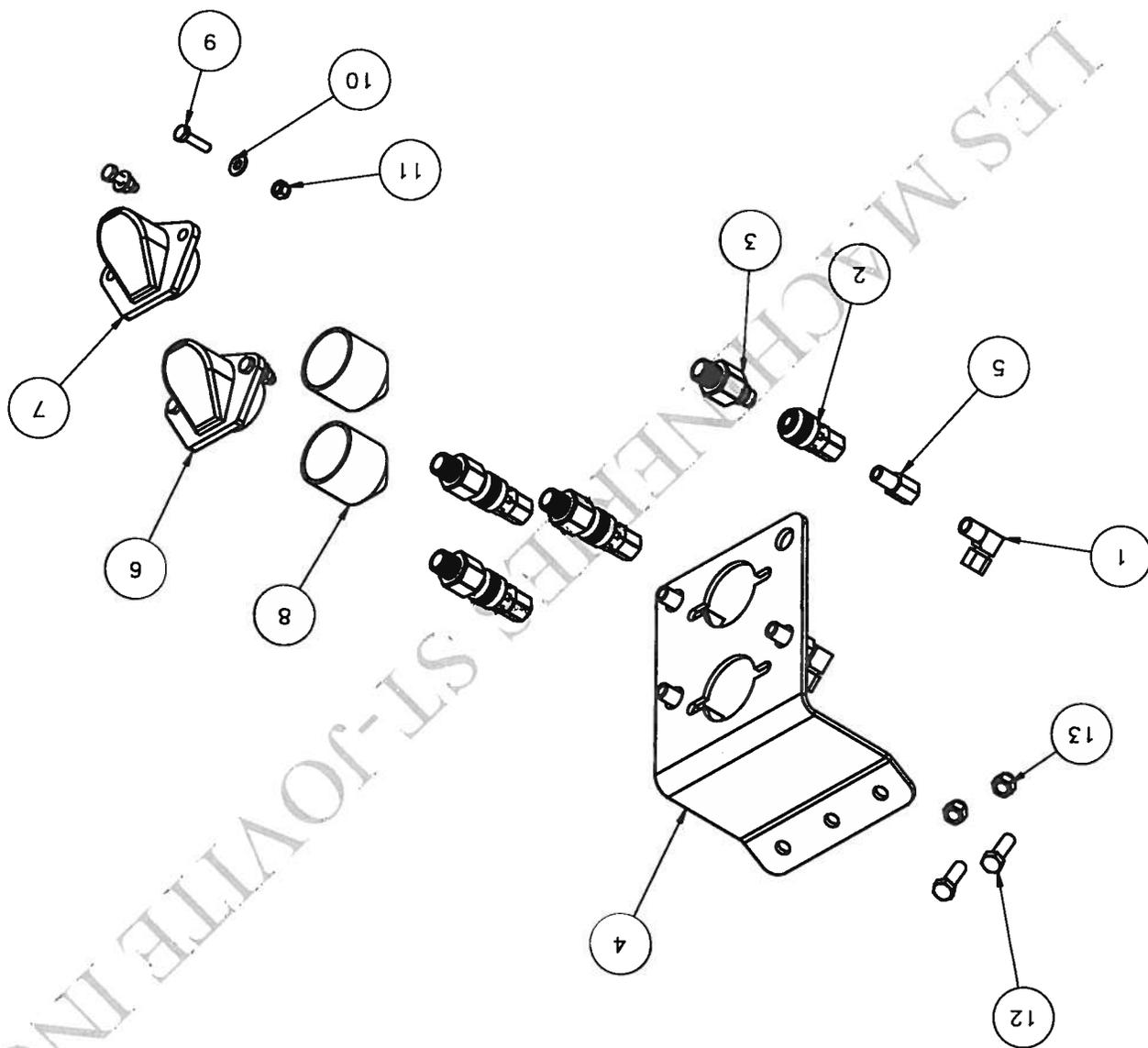
LDP Roll-Off-04AA

No.	Pièce # Part	DESCRIPTION	DESCRIPTION	Qté/Ct
1	MSJROAA0011	ADAPT. GAUCHE CHÂSSIS (30T)	LEFT FRAME ADAPT. (30T)	1
1	MSJROAA0008	ADAPT. GAUCHE CHÂSSIS (40T)	LEFT FRAME ADAPT. (40T)	1
3	MSJROAA0012	ADAPT. DROIT CHÂSSIS (30T)	RIGHT FRAME ADAPT. (30T)	1
	MSJROAA0007	ADAPT. DROIT CHÂSSIS (40T)	RIGHT FRAME ADAPT. (40T)	
5	MSJROFA30T	ENSEMBLE ADAPT. CHÂSSIS (30T)	FRAME ADAPT. KIT (30T)	1
6	MSJROFA40T	ENSEMBLE ADAPT. CHÂSSIS (40T)	FRAME ADAPT. KIT (40T)	
7	MSJROTM0001	BAGUE	BUSHING	N/A

Adaptateur Chassis / Frame Adapter

LES MACHINERIES ST-JOVITE

LDP_Roll-Off-09AA



Connecteurs / Connectors

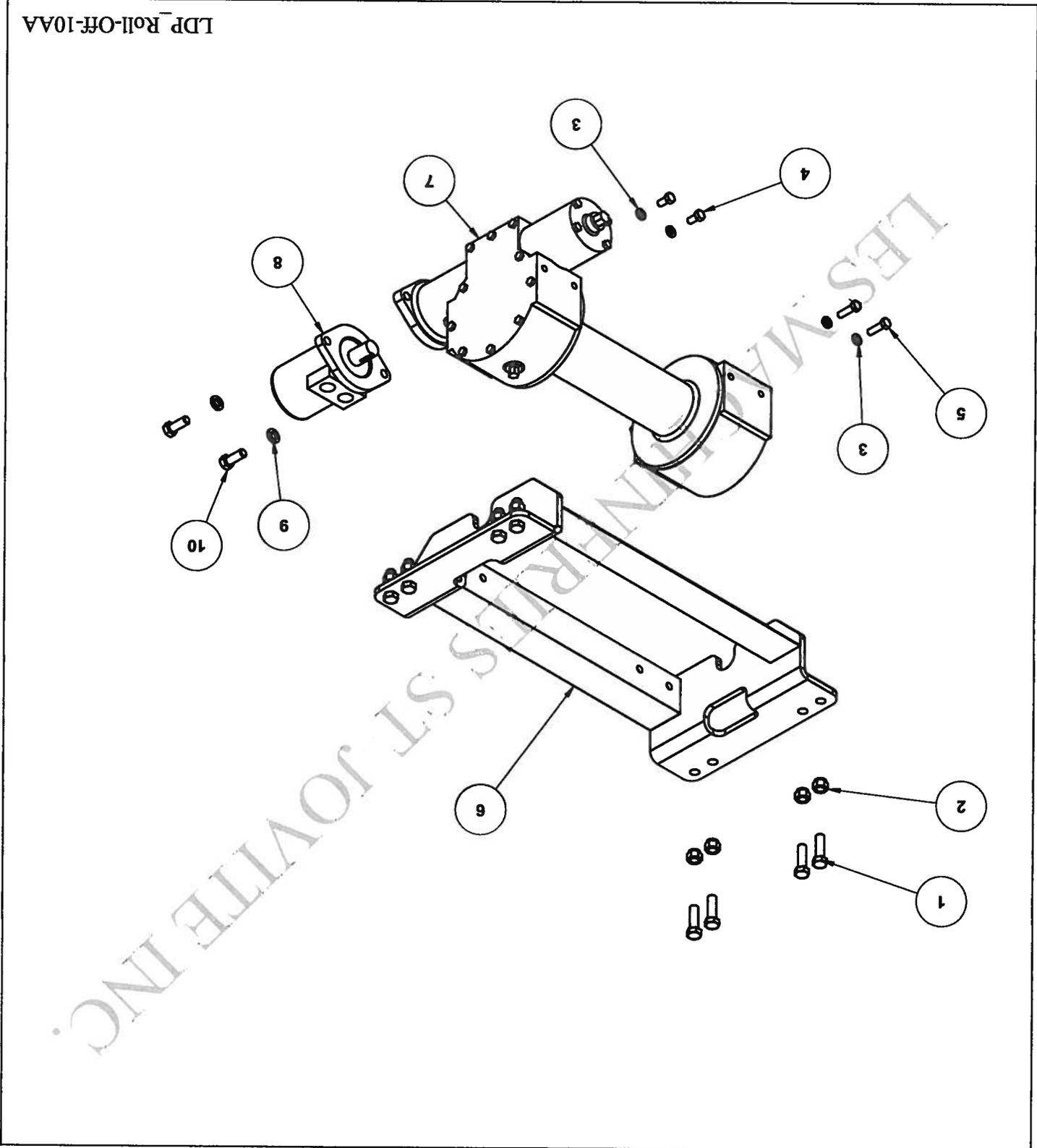
No.	Pièce # Part	DESCRIPTION	DESCRIPTION	Qté/Qt
1	1469 X6 X6	ADAPTATEUR 90 DEGRÉS	90 DEGRÉS ADAPTER	4
2	2DF2B	ADAPT. RAPIDE FEMELLE	FEMALE QUICK ADAPT.	4
3	D2F2B	ADAPT. RAPIDE MÂLE	MALE QUICK ADAPT.	4
4	MSJROPL0023	PLAQUE MONTAGE	MOUNTING PLATE	1
5	2040-4-6S	ADAPTATEUR DROIT	STRAIGHT ADAPTER	4
6	PHI 16-720	CONNECTEUR ÉLECT.	ELECT. CONNECTOR	1
7	PHI 15-326	CONNECTEUR ÉLECT.	ELECT. CONNECTOR	1
8	PHI 15-740	CAPUCHON	SEAL CAP	2
9	140-100-005P	HB 1/4-NC X 1 LG	HB 1/4-NC X 1 LG	4
10	140-091UP	FW SAE 1/4	FW 1/4	4
11	140-080	NLN 1/4-NC	NLN 1/4-NC	4
12	380-114-005P	HB 3/8-NC X 1 1/4 LG	HB 3/8-NC X 1 1/4 LG	2
13	380-080	NLN 3/8-NC	NLN 3/8-NC	2

LDP Roll-Off-09AA

Livre # / Book #
MSJ RO 30-40 AA

Révisé / Revised
2007-04-18

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LDP_Roll-Off-10AA

Livre # / Book #
MSI_RO_30-40_AA

Révisé / Revised
2007-04-18

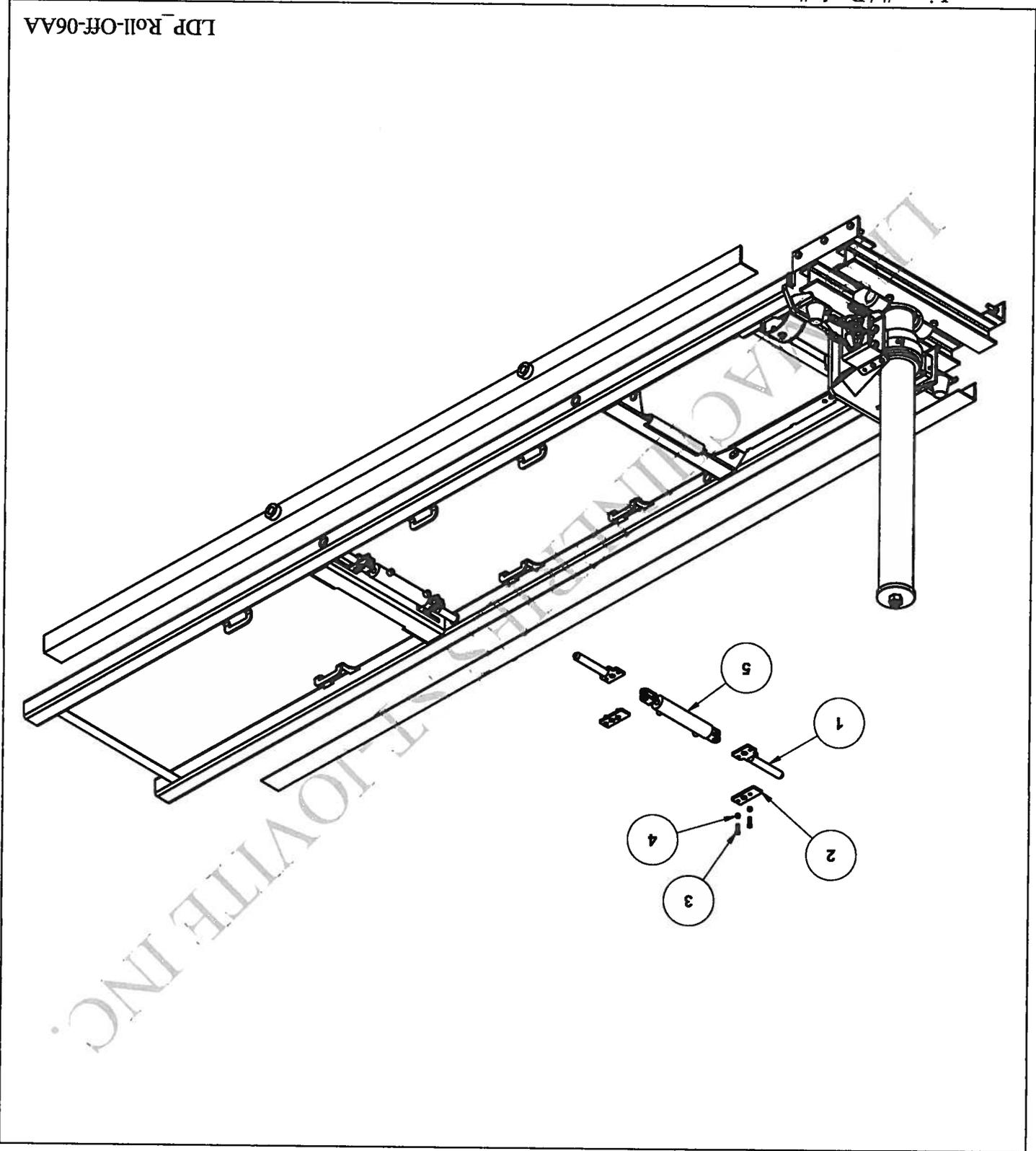
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LDP Roll-Off-10AA

No.	Pièce # Part	DESCRIPTION	DESCRIPTION	Qté/Gt
1	120-1340-005P	HB 1/2-NC X 1 3/4 LG	HB 1/2-NC X 1 3/4 LG	8
2	120-080	MLN 1/2-NC	MLN 1/2-NC	8
3	380-110P	LOW 3/8	LOW 3/8	8
4	380-340-005P	HB 3/8-NC X 3/4 LG	HB 3/8-NC X 3/4 LG	4
5	380-114-005P	HB 3/8-NC X 1 1/4 LG	HB 3/8-NC X 1 1/4 LG	4
6	MSJROAA0003	SUPPORT TREUIL	WINCH SUPPORT	1
7	RAM124009	TREUIL (Voir Pages attachées)	WINCH (See attached pages)	1
8	HP80C4U	MOTEUR HYD.	HYD. MOTOR	1
9	120-110P	LOW 1/2	LOW 1/2	2
10	120-114-005P	HB 1/2-NC X 1 1/4 LG	HB 1/2-NC X 1 1/4 LG	2

Treuil / Winch

Système Barrure / Locking Mechanism



LDP_Roll-Off-06AA

Livre # / Book #
MSJ_RO_30-40_AA

Révisé / Revised
2007-04-18

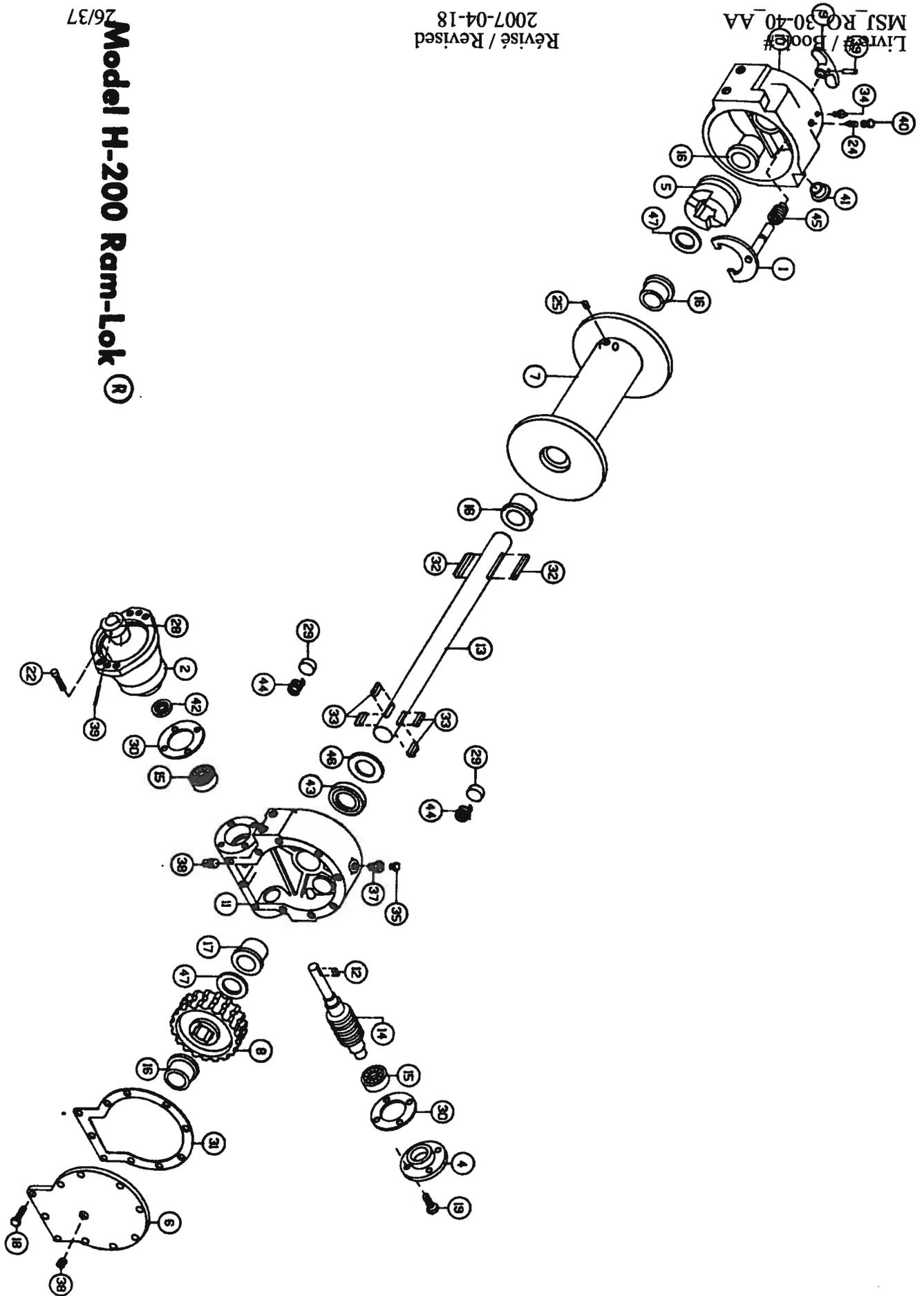
24/37

LDP Roll-Off-06AA



No.	Pièce # Part	DESCRIPTION	DESCRIPTION	Qté/Qt
1	MSJROAA0004	AXE de BARRURE	LOCKING PIN	4
2	MSJROPL0013	GUIDE COULISSANT	SLIDING GUIDE	4
3	380-112-005P	HB 3/8-NC X 1 1/2 LG	HB 3/8-NC X 1 1/2 LG	8
4	380-080	NLN 3/8-NC	NLN 3/8-NC	8
5	MSJCYL01	CYLINDRE HYDRAULIQUE	HYDRAULIC CYLINDER	2

Système Barrure / Locking Mechanism



MSJ_R030-40_AA
 Révisé / Revised
 2007-04-18

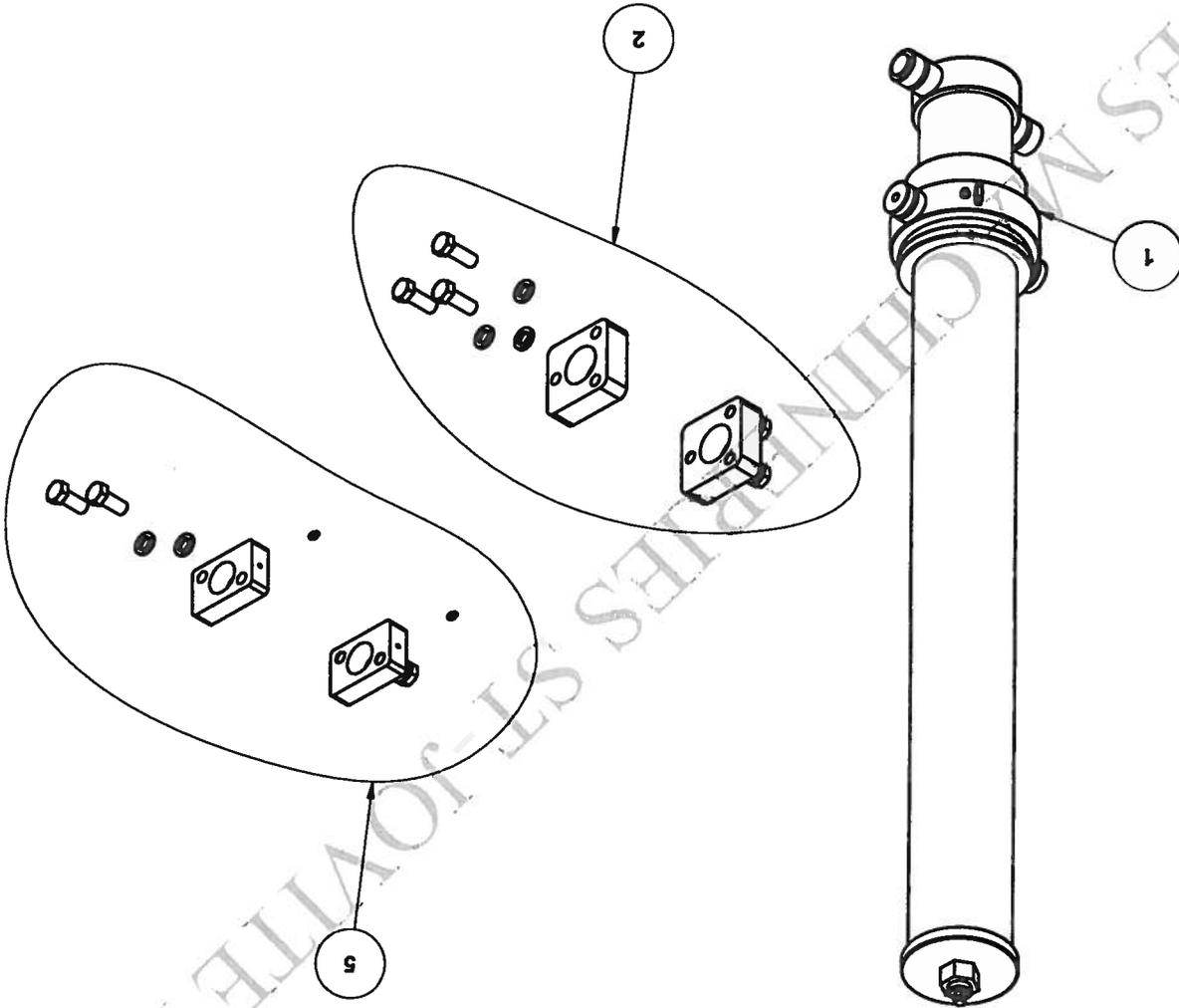
Model H-200 Ram-Lok®
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PARTS LIST [®]

Model H-200 Ram-Lok

Item No.	Qty.	Part No.	Description	Item No.	Qty.	Part No.	Description
1	1	276056	SHIFTER ASS'Y	24	1	416030	SETScrew 1/4-20NCx3/8 SOC.HD.LESS
2	1	300057	ADAPTER	25	1	416059	SETScrew 3/8-18NCx1/2 SOC.HD.LESS
4	1	316083	BEARING CAP	26	8	418177	LOCKWASHER 3/8 MED.SECT. C.P.
5	1	324160	JAW CLUTCH	27	2	418218	LOCKWASHER 1/2-MED.SECT.
6	1	328194	COVER	28	1	431008	COUPLING
7	1	332007	DRUM-"Y"	29	2	438014	DISC-BRAKE
8	1	332105	DRUM-"STD."	30	2	442184	GASKET
9	1	334161	GEAR R.H. 80:1	31	1	442205	GASKET
10	1	334163	GEAR R.H. 46:1	32	2	450008	KEY-BARTH
11	1	334165	GEAR R.H. 30:1	33	4	450016	KEY-BARTH
12	1	336010	HANDLE	34	1	456001	FITTING-LUBE
13	1	338208	HOUSING-CLUTCH	35	1	456008	FITTING-RELIEF
14	1	338273	HOUSING-GEAR	36	1	458050	MOTOR-HYD.
15	1	342027	KEY	37	1	468002	REDUCER
16	1	357479	SHAFT-DRUM-"STD"	38	2	468011	PIPE PLUG
17	1	357481	SHAFT-DRUM-"Y"	39	2	470033	SPIROL PIN
18	1	368002	WORM R.H. 46:1	40	1	472012	PLUG-RUBBER
19	1	368007	WORM R.H. 60:1	41	1	472013	PLUG-PLASTIC
20	1	368011	WORM R.H. 30:1	42	1	486009	PLASTIC PLUG
21	2	402002	BEARING-BALL	43	1	486017	OIL SEAL
22	4	412003	BEARING	44	2	494002	OIL SEAL
23	4	412045	BUSHING	45	1	494053	SPRING
24	4	414036	CAPSCREW 1/4-20NCx3/4 LG. HX.HD. GR.5	46	1	518014	SPRING
25	2	414045	CAPSCREW 1/4-20NCx7/8 LG. HX.HD. GR.5	47	2	518015	THRUST WASHER
26	4	414842	CAPSCREW 1/4-20NCx1-3/4 LG. SOC.HD. LOK-WEL				
27	4	414952	CAPSCREW 1/2-13NCx1-1/2 LG. SOC.HD. C.P.				

LDP Roll-Off-08AA



"OPTION"

Cyl. Télesc. / Telesc. Cyl.

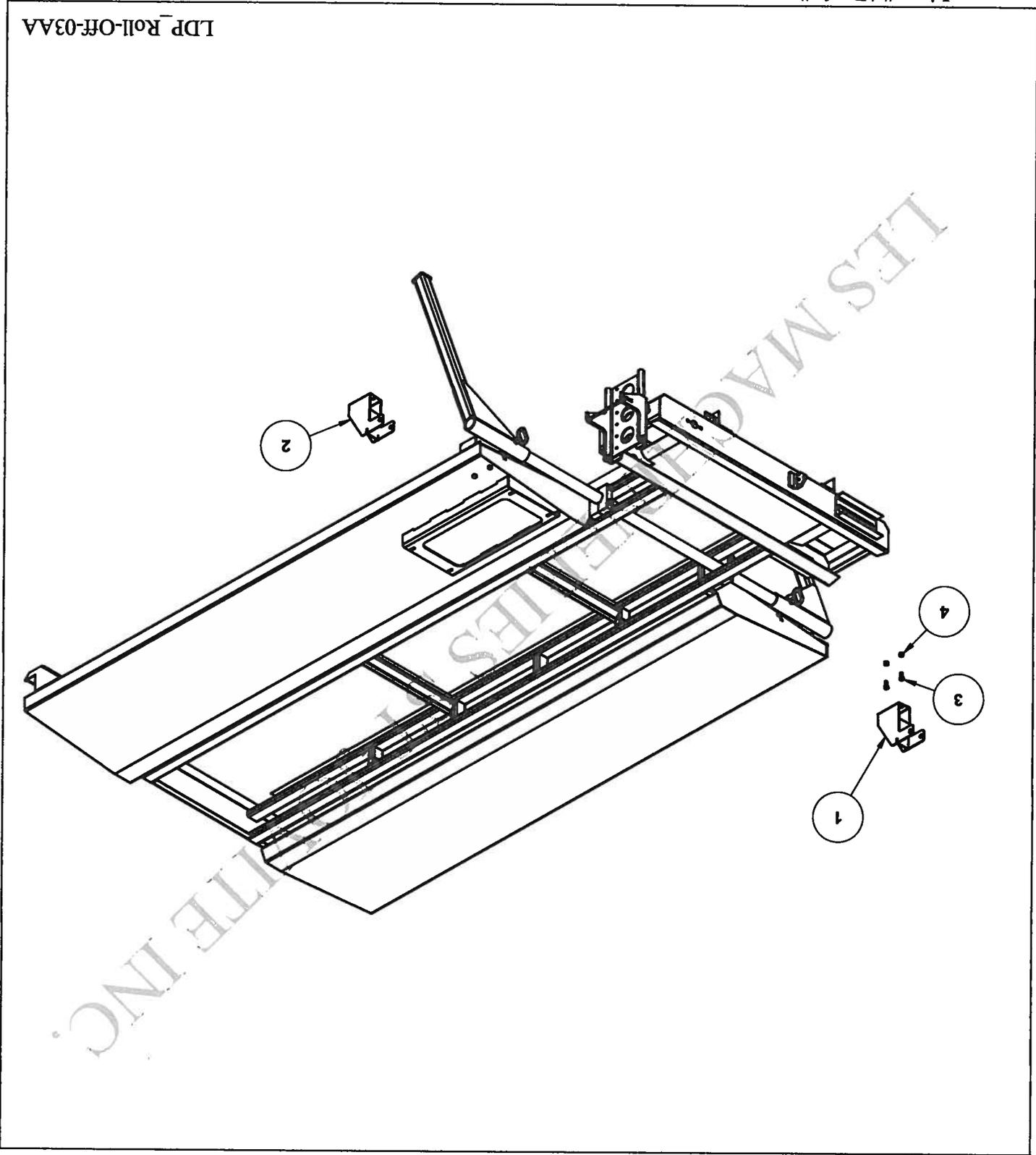
LDP Roll-Off-08AA

LES MACHINERIES ST-JOVIN

No.	Pièce # Part	DESCRIPTION	DESCRIPTION	Qté/Qt
1	N / A	SPÉCIFIÉ À L'ACHAT	SPECIFIED AT PURCHASE	1
2	MSJBL40	CALE CYL. TÉLÉSC. (40T)	TELESC. CYL. BLOCK (40T)	2
		HB 3/4-NC X 2 LG	HB 3/4-NC X 2 LG	6
		LOW 3/4	LOW 3/4	6
5	MSJBL30	CALE CYL. TÉLÉSC. (30T)	TELESC. CYL. BLOCK (30T)	2
		HB 3/4-NC X 1 3/4 LG	HB 3/4-NC X 1 3/4 LG	4
		LOW 3/4	LOW 3/4	4
		GRAISSEUR 1/4-28	GREASE FITTING 1/4-28	2

Cyl. Télesc. / Telesc. Cyl.

Supports Pattes / Legs Supports



LDP_Roll-Off-03AA

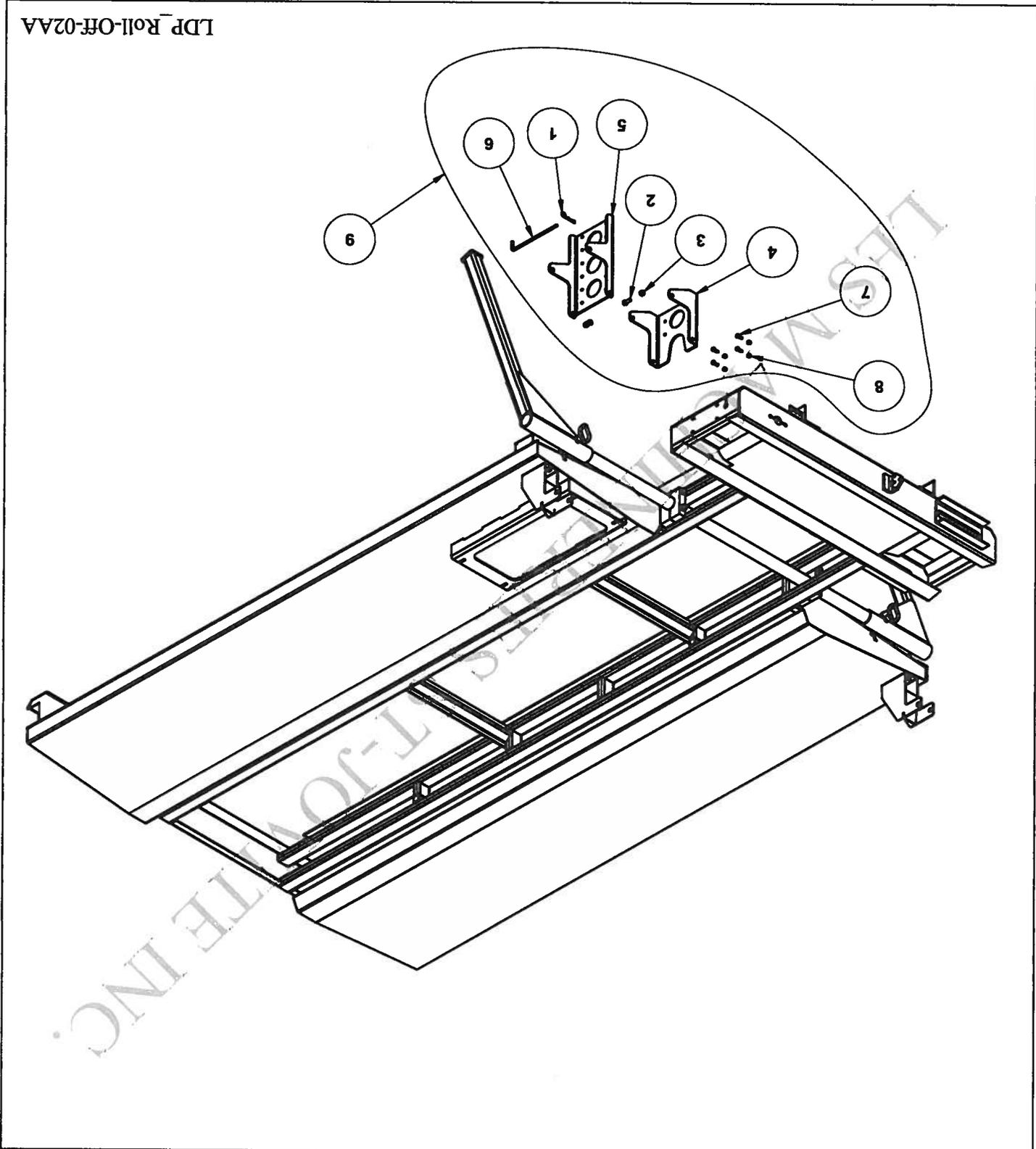
LDP_Roll-Off-03AA

LES MACHINERIES ST-JOVITTE INC

No.	Pièce # Part	DESCRIPTION	DESCRIPTION	Qté/Qt
1	MSJROAA0018	SUPPORT PATTE GAUCHE	LEFT LEG SUPPORT	1
2	MSJROAA0020	SUPPORT PATTE DROITE	RIGHT LEG SUPPORT	1
3	120-114-005P	HB 1/2-NF X 1 1/4 LG	HB 1/2-NF X 1 1/4 LG	4
4	120-080	NLN 1/2-NC	NLN 1/2-NC	4

Supports Pattes / Legs Supports

Support Tourniquet / Spinner Support



LDP Roll-Off-02AA

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Révisé / Revised
2007-04-18

MSI RO 30-40 AA
Livre # / Book #

Support Tourniquet / Spinner Support

No.	Pièce # Part	DESCRIPTION	DESCRIPTION	Qté/Qt
1	HP9	HITCH PIN #9	HITCH PIN #9	1
2	120-114-005P	HB 1/2-NF X 1 1/4 LG	HB 1/2-NF X 1 1/4 LG	2
3	120-080	NLN 1/2-NC	NLN 1/2-NC	2
4	MSJROPL0025B	SUPPORT TOURNIQUET	SUPPORT TOURNIQUET	1
5	MSJROPL0026A	SUPPORT TOURNIQUET	SUPPORT TOURNIQUET	1
6	MSJROBR0004	TIGE de BARREURE	LOCKING PIN	1
7	380-100-005P	HB 3/8-NC X 1 LG	HB 3/8-NC X 1 LG	4
8	380-080	NLN 3/8-NC	NLN 3/8-NC	4
9	MSJROAA0013	ENSEMBLE SUPPORT TOURNIQUET	SPINNER SUPPORT KIT	1

LES MACHINERIES ST-JOVITE

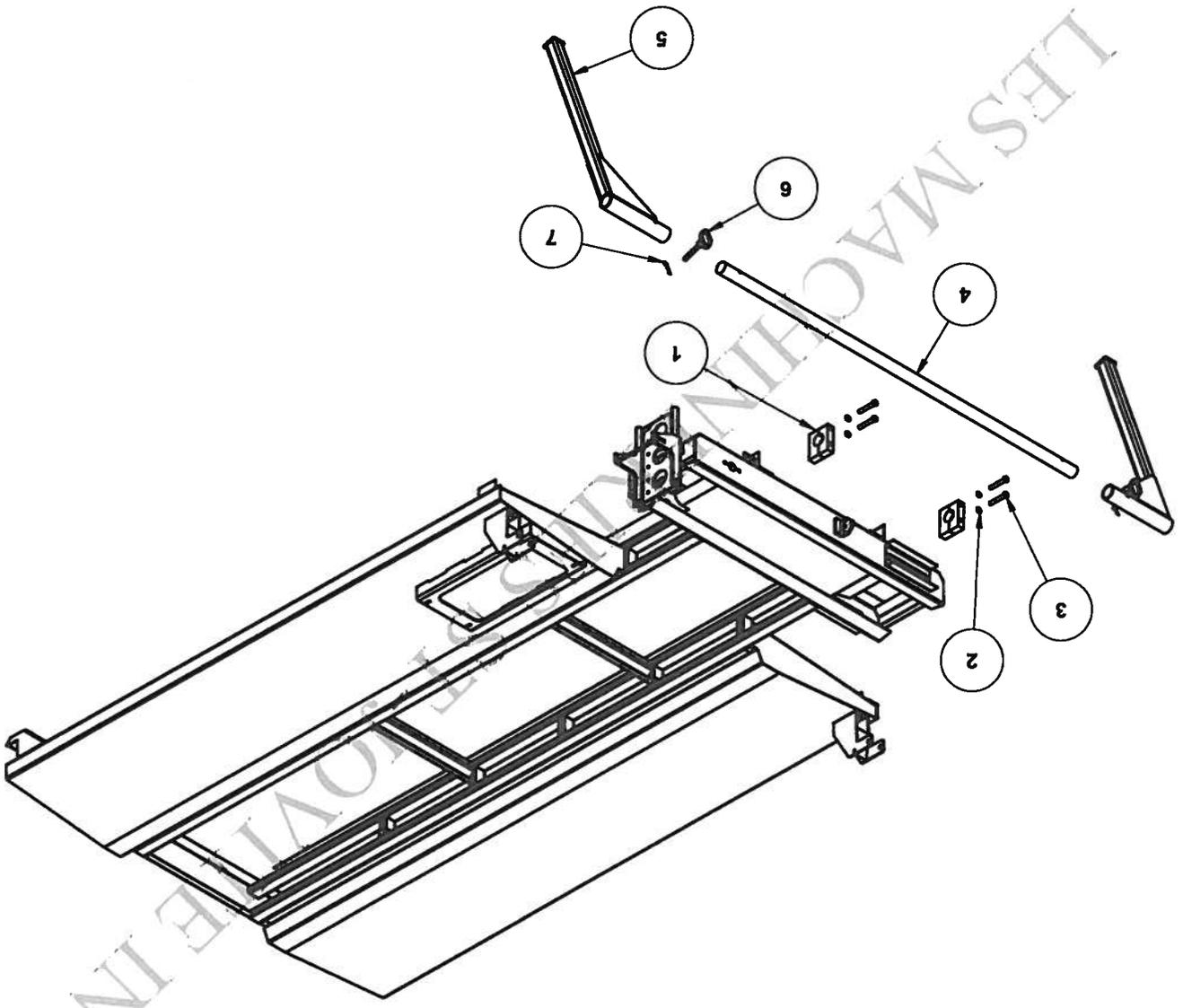
LDP Roll-Off-02AA

Livre # / Book #
MSJ RO 30-40 AA

Révisé / Revised
2007-04-18

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LDP Roll-Off-01AA



Pattes / Legs

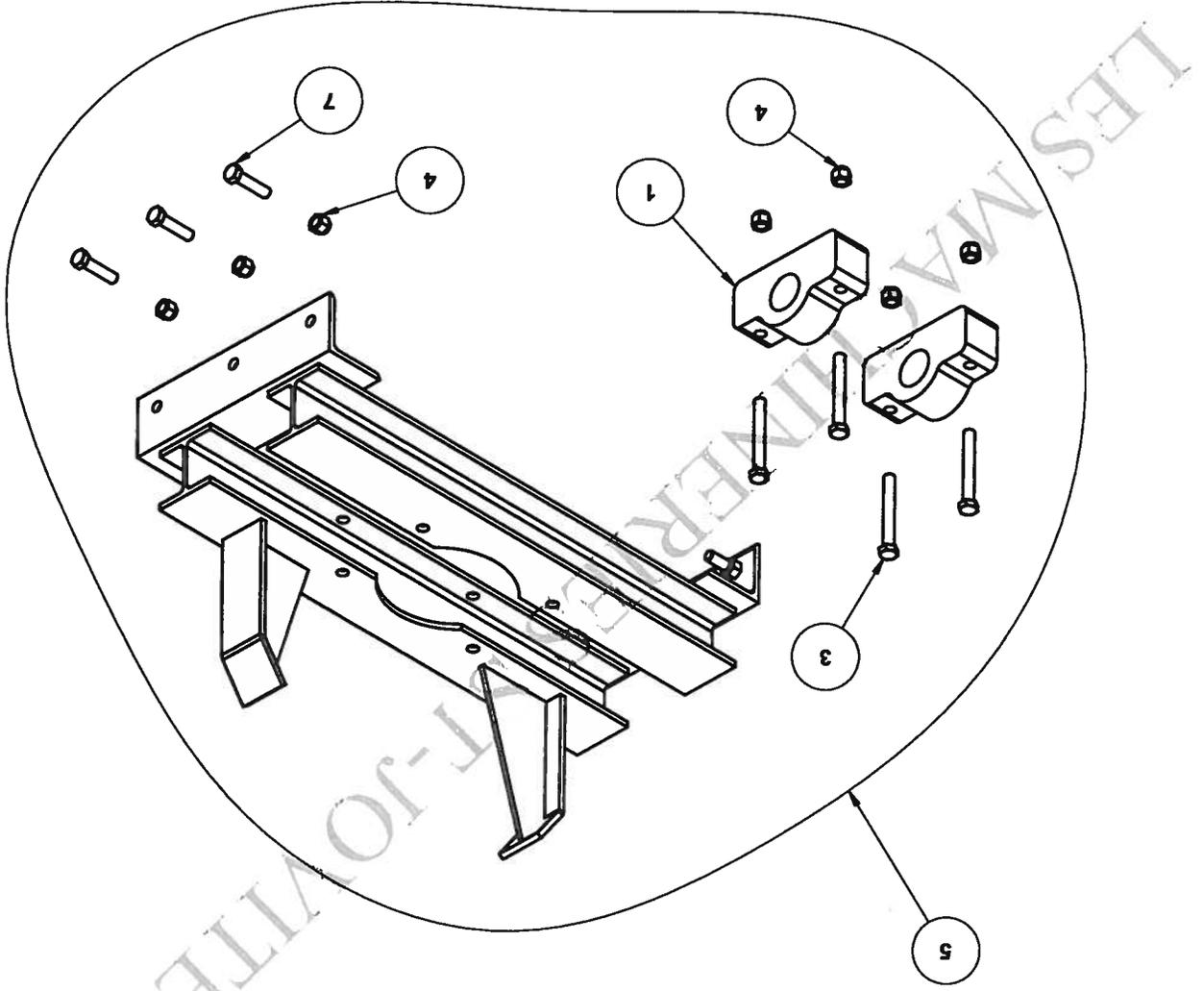
LDP_Roll-Off-01AA

No.	Pièce # Part	DESCRIPTION	DESCRIPTION	Qté/Ct
1	MSJROAA0019	SUPPORT AXE	SHAFT SUPPORT	2
2	580-110P	LOW 5/8	LOW 5/8	4
3	580-400-008P	HB 5/8-NC X 4 LG	HB 5/8-NC X 4 LG	4
4	MSJROBR0005A	AXE	SHAFT	1
5	MSJROAA0014	PATTE	LEG	2
6	442-161	BARRE	PIN	2
7	HP9	HITCH PIN #9	HITCH PIN #9	2

Pattes / Legs



"OPTION"



LDP_Roll-OFF-11AA

LDP_Roll-Off-11AA

No.	Pièce # Part	DESCRIPTION	DESCRIPTION	Qté/Qt
1	BV40B	CALE CYL. TELESC. (40)	TELESC. CYL. BLOCK (40)	2
	BV30B	CALE CYL. TELESC. (30)	TELESC. CYL. BLOCK (30)	
3	580-500-005P	HB 5/8-NF X 5 LG	HB 5/8-NF X 5 LG	4
4	580-080	NLN 5/8-NC	NLN 5/8-NC	10
5	BV30T	PIÉDESTAL (30T)	PEDESTAL (30T)	1
	BV40T	PIÉDESTAL (40T)	PEDESTAL (40T)	
7	580-212-009P	HB 5/8-NC X 2 1/2 LG x GR 8	HB 5/8-NC X 2 1/2 LG x GR 8	6

Piédestal Cyl. Telesc. / Telesc. Cyl. Pedestal