

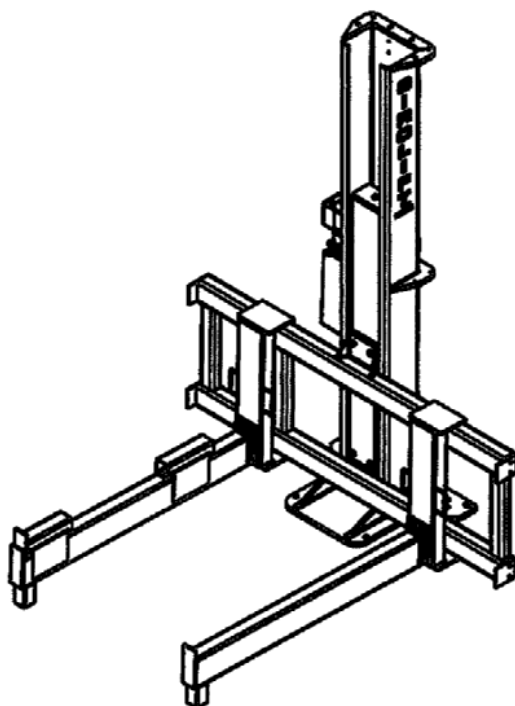
INSTALLATION & OPERATING INSTRUCTIONS MANUAL

INSTALLER AND OWNER'S MANUAL

10-LF1-F72-C01 MODEL

1 POST LIFT WITH FORKS
10 000 LB CAPACITY

GIROLIFT™



IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS

**READ THIS MANUAL CAREFULLY BEFORE INSTALLING, OPERATING, SERVICING OR
MAINTAINING THE LIFT.**

OPERATING CONDITION

THE LIFT IS DESIGNED FOR **INDOOR USE ONLY** AND OPERATING IN A **DRY** ENVIRONMENT FOR TEMPERATURE BETWEEN 5° TO 40°C (41° – 104°F).
LIFT'S INSTALLATION OUTSIDE IS PROHIBITED.

CANADA HYDRAULIC EQUIPMENT INC. DISCLAIMS ALL LIABILITY IF THE CONDITIONS ARE NOT FULFILLED.

MANUAL : MAN-10-LF1-F72-C01-E

N.B. CANADA HYDRAULIC EQUIPMENT INC. IS CERTIFIED BY CWB (CANADIAN WELDING BUREAU) ACCORDING TO CSA W47.1 AND CSA W59 STANDARDS.

ASSISTANCE

(FOR PARTS¹, SERVICE OR TECHNICAL QUESTIONS)

(WRITE DOWN DISTRIBUTOR INFORMATION IN BOX)

HAVE MODEL AND SERIAL NUMBERS OF GIROLIFT AND SERIAL NUMBER AND MODEL OF POWER UNIT FOR SERVICE AND PARTS :

GIROLIFT MODEL : _____

GIROLIFT SERIAL NUMBER : _____

POWER UNIT SERIAL NUMBER (" SERIAL NO. + DATE COTE " FOR S MODEL) : _____

POWER UNIT MODEL ("MODEL NUMBER") : _____

(INFORMATIONS IN HATCHED BOXES OF **FIGURES 1 AND 2.**)

FIGURE 1 : NAMEPLATE ON MASTER COLUMN	FIGURE 2 : POWER UNIT LABEL	FIGURE 2 : POWER UNIT LABEL
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MANUFACTURER

CANADA HYDRAULIC EQUIPMENT INC.

450-839-6562
1-888-839-6562
(TOLL-FREE NUMBER)

450-839-9072

INFO@GIROLIFT.COM

WWW.GIROLIFT.COM

WORKING TIME (EASTERN TIME)

MONDAY TO THURSDAY 8:00 À 17:00
FRIDAY 8:00 À 12:00
SATURDAY AND SUNDAY CLOSED

¹ PARTS AVAILABLE ONLINE : WWW.GIROLIFT.COM/EN/ACCESSORIES

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GENERAL SPECIFICATIONS

LIFT SPECIFICATIONS		VALUES	
PNEUMATIC PRESSURE		80 TO 125 PSI	
LIFTING HEIGHT		72"	
OPERATING PRESSURE		3100 PSI	

LIFT SPECIFICATIONS		VALUES	
TOTAL HEIGHT		152-3/4"	
APPROXIMATE SHIPPING WEIGHT (LIFT AND PACKAGING)		3200 LB	

POWER UNIT VOLTAGE*	MODEL	LIFTING SPEED	LOWERING SPEED	SPEED	POWER	AMPERAGE	DUTY CYCLE	
							ON	OFF
220 V / 1 PH. / 60 HZ	R	71 SEC	22 SEC	2 GMP	2 HP	17 A	93 SEC	507 SEC
		60 SEC	22 SEC	3 GMP	5 HP	26 A	65 SEC	600 SEC
575 V / 3 PH. / 60 HZ	S	74 SEC	22 SEC	1.8 GMP	2 HP	4.5 A	120 SEC	600 SEC

*NOTE : USE TIME DELAY FUSE WITH THIS LIFT.

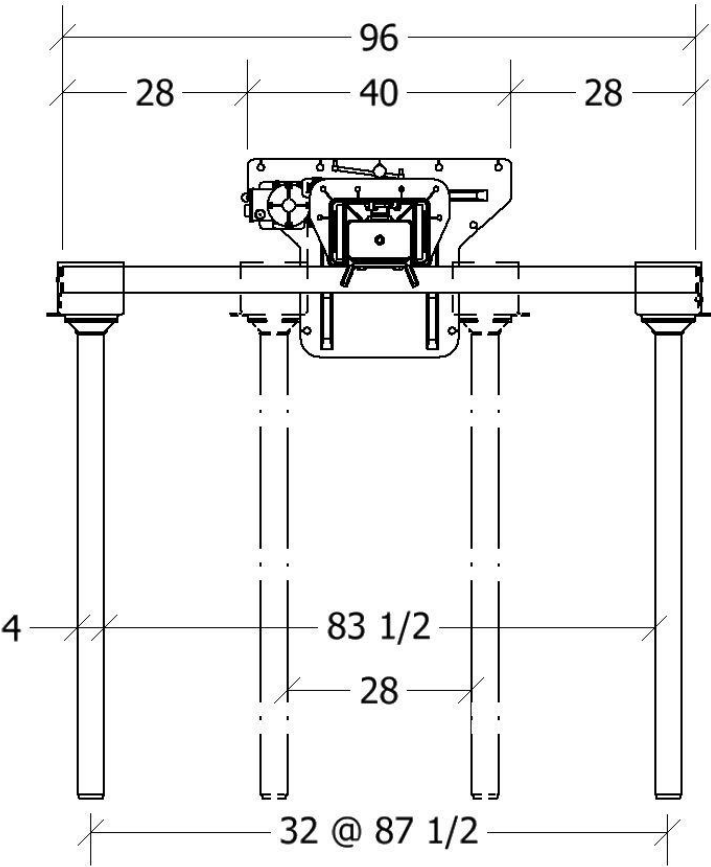


FIGURE 3 : LIFT TOP VIEW

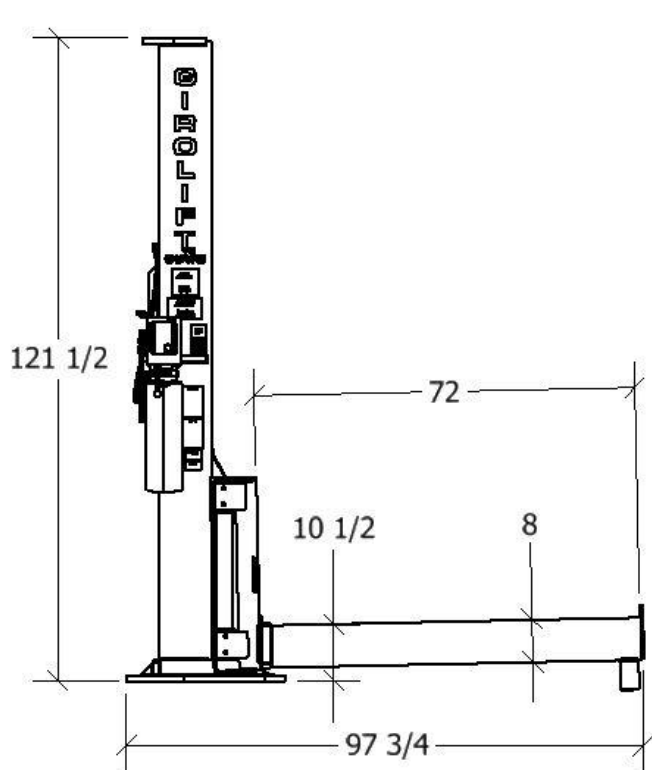


FIGURE 4: LIFT SIDE VIEW

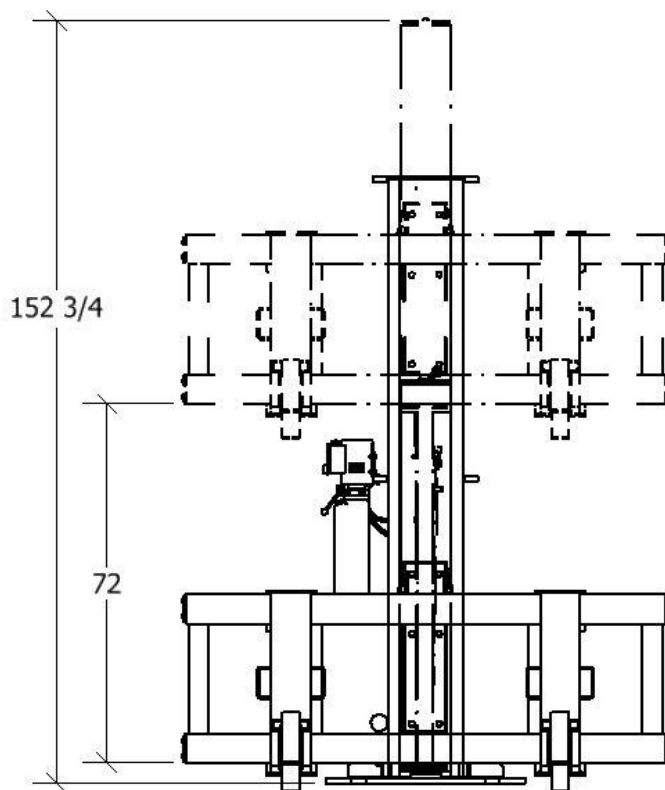


FIGURE 5: LIFT FRONT VIEW

NOTE : THE DIMENSIONS ARE CALCULATED FROM THE BASE ON THE GROUND AND LEVELLED (WITH SHIMS).

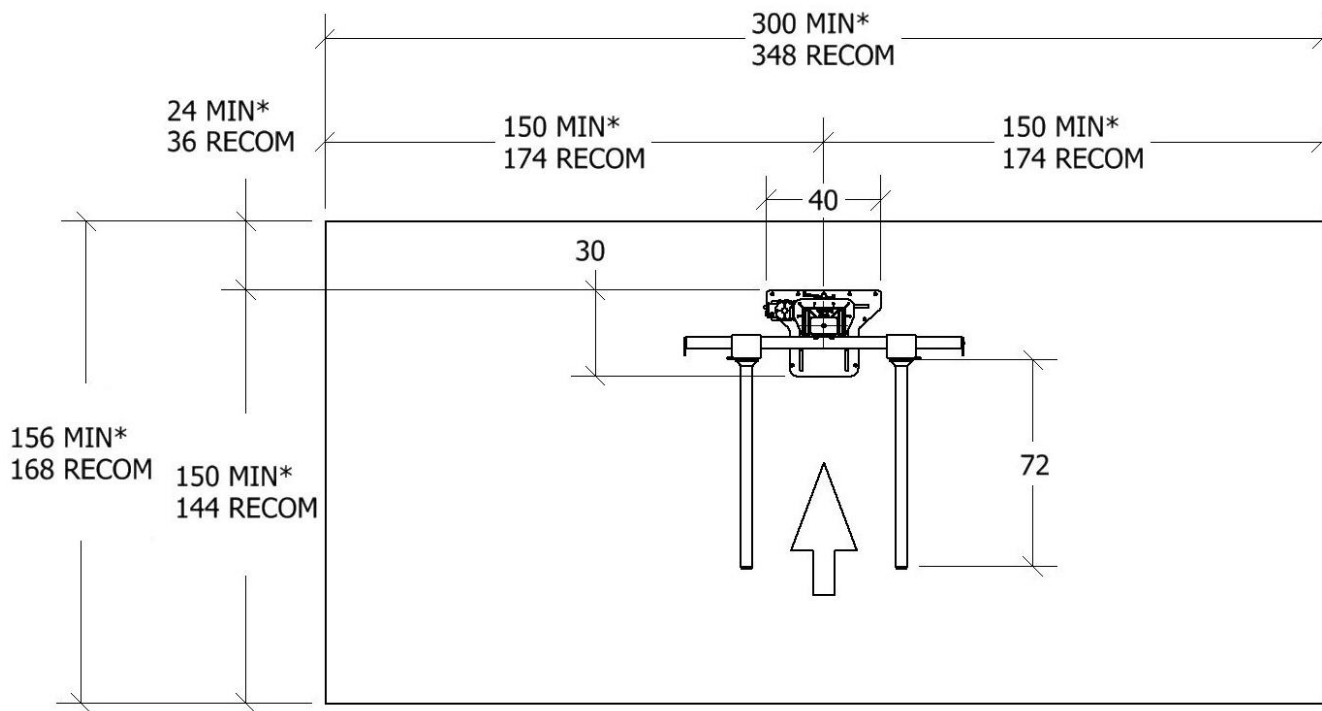
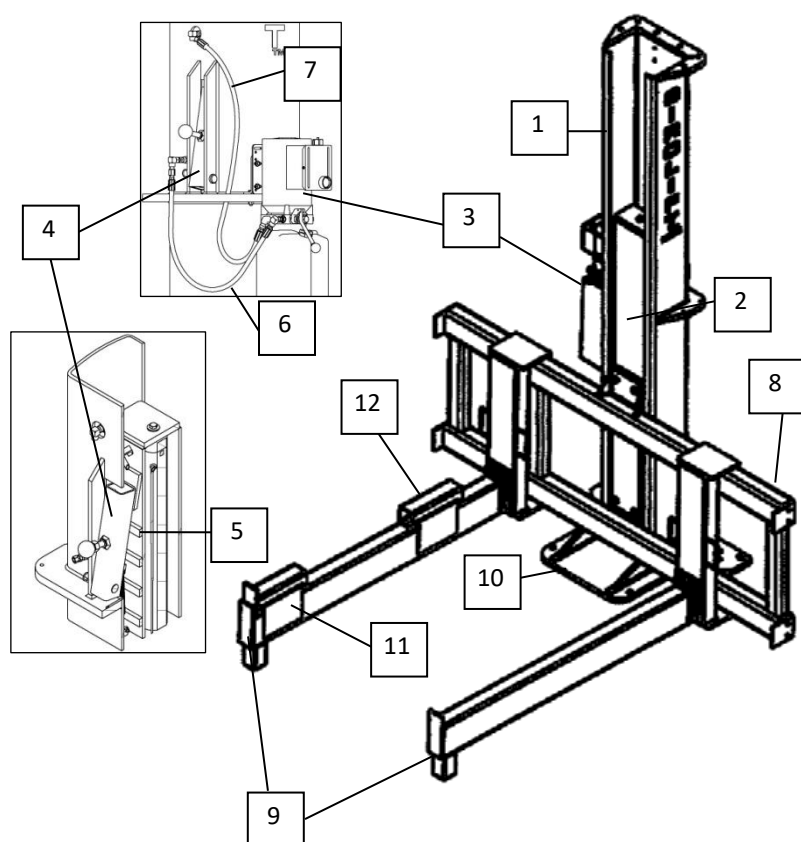


FIGURE 6 : MINIMUM AND RECOMMENDED BAY DIMENSIONS

MAIN COMPONENTS IDENTIFICATION



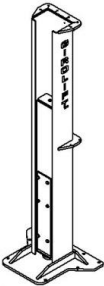
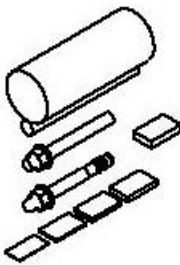
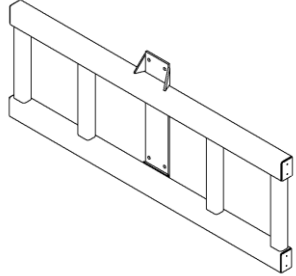
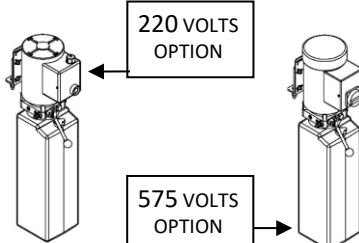
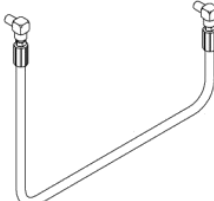
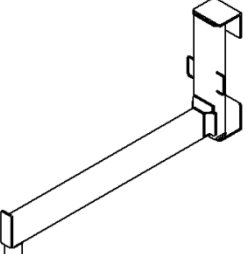
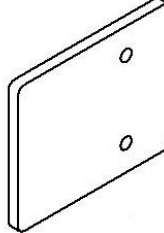
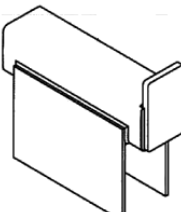
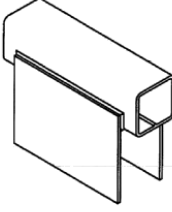
#	IDENTIFIED COMPONENT
1	FIXED COLUMN
2	CARRIAGE
3	POWER UNIT
4	LOAD HOLDER WITH BLACK HANDLE
5	STOP BLOCK
6	Ø 1/4" X 38" LG HOSE WITH FIXED FLOW CONTROL
7	Ø 1/4" X 38" LG HOSE WITH ADAPTERS
8	FORK HOLDER
9	FORK
10	BASE
11	LIFTING BLOCK WITH STOPPER
12	LIFTING BLOCK

FIGURE 7 : MAIN COMPONENT IDENTIFICATION

LIST OF RECOMMENDED TOOLS FOR INSTALLATION

#	TOOLS	USE	#	TOOLS	USE
1	MEASURING TAPE - 50' LG	IF NEEDED	8	TORQUE WRENCH 1-1/8"-DRIVE	TIGHTEN ANCHORS
2	CHALK MARKER	FLOOR INDICATIONS OF INSTALLATION SITE	9	TORQUE WRENCH 7/8"-DRIVE	TIGHTEN FITTINGS
3	PERMANENT MARKER		10	FUNNEL	FILL POWER UNIT TANK
4	SCREWDRIVER HANDLE PRY BAR	MOVE BASES OF COLUMNS AND INSTALL THE SHIMS	11	ADJUSTABLE WRENCH	IF NEEDED
5	HAMMER DRILL WITH CONCRETE HAMMER DRILL BIT 3/4" AND 7/8"	DRILLING THE ANCHOR HOLES	12	WRENCH SET 9/16"(2x), 3/4", 13/16", 7/8", 11/16"	IF NEEDED
6	WET DRY VACUUM	CLEAN THE ANCHOR HOLES	13	RESIN GUN	CHEMICAL ANCHORS INSTALLATION
7	HAMMER	DRIVE IN ANCHORS AND FIXATION OF DOM TUBES.			

LIST OF MATERIALS PROVIDE

QTY	ILLUSTRATION	QTY	ILLUSTRATION	QTY	ILLUSTRATION
1	 ASSEMBLED COLOMNN	1	 WEDGE ANCHORS AND SHIMS KIT (STEEL) 32 x 1/16 x 1-1/2 x 2-1/2" SHIM 8 x 1/8 x 1-1/2 x 2-1/2" SHIM 4 x 1/4 x 1-1/2 x 2-1/2" SHIM 4 x 3/8 x 1-1/2 x 2-1/2" SHIM 4 x 1/2 x 1-1/2 x 2-1/2" SHIM 4 x 3/4 x 7" LG MECHANICAL ANCHOR 5 x 3/4" x 7" LG THREADED ROD (CHEMICAL ANCHOR) 9 x 3/4" NUT 9 x 3/4" WASHER	1	 FORK HOLDER
1	 POWER UNIT 2 x 3/8" NC NUT 2 x 3/8" x 1-3/4" BOLT	1	 HOSE ASSEMBLY Ø1/4" X 38" LG WITH ELBOWS 1/4	1	 BLACK PLASTIC HANDLE
2	 FORK	4	 3/8" X 5" X 6" LG PLATE	8	 3/8" X 3/4" LG BOLT
1	 LIFTING BLOCK WITH STOPPER	1	 LIFTING BLOCK		

INSTALLATION INSTRUCTIONS

REFER TO : ANSI/ALI ALIS : STANDARD FOR AUTOMOTIVE LIFTS - SAFETY REQUIREMENTS FOR INSTALLATION AND SERVICE

⚠ CAUTION

BEFORE INSTALLATION, REVIEW LOCAL CODES AND OBTAIN APPROPRIATE PERMITS(S) IF REQUIRED.

CONSULT A QUALIFIED PERSON TO ADDRESS SEISMIC LOADS AND OTHER LOCAL AND STATE REQUIREMENTS.

IF FLOOR SPECIFICATIONS AND RECOMMENDED MEASURES FOR THE LIFT CANNOT MEET THE REQUIREMENTS, CONTACT THE GIROLIFT MANUFACTURER BEFORE PROCEEDING TO THE INSTALLATION.

COLUMN INSTALLATION

- 1. FLOOR SPECIFICATIONS :** VERIFY AND MEET FLOOR SPECIFICATIONS BEFORE INSTALLATION SEE **FIGURE 8.**

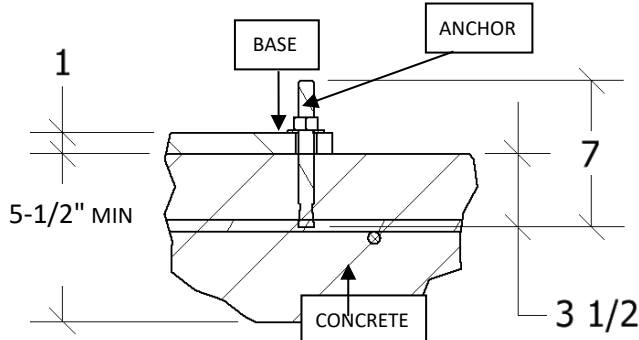


FIGURE 8 : CONCRETE BASE

FLOOR SPECIFICATIONS	VALUES
CONCRETE THICKNESS	5-1/2" MINIMUM
COMPOSITION	CONCRETE WITH REINFORCEMENT
CAPACITY	SURFACE CONSTRAINT TO 4000 PSI (30MPa)
QUALITY	ANCHOR LOCATED AT MORE THAN 12" FROM CRACK OR FISSURE.

⚠ WARNING

- DO NOT INSTALL THE LIFT ON ASPHALT OR ANY SIMILAR OR UNSTABLE COMPOUND.
- DO NOT INSTALL THE LIFT IN A PIT OR DEPRESSION DUE TO FIRE OR EXPLOSION RISKS.

- 2. LOCATION OF THE GIROLIFT :** ACCORDING TO THE RECOMMENDED MEASURES OF **FIGURE 6**, MARK ON THE FLOOR THE GIROLIFT INSTALLATION SITE.

- THE MINIMUM HEIGHT OF THE CEILING OR ANY OTHER STRUCTURE MUST BE AT MORE THAN 152-3/4" FROM THE GROUND. (RECOMMENDED CLEARANCE ABOVE LIFT)

- 3. COLUMN ERECTION :**

⚠ CAUTION

DO NOT USE CHAINS OR OTHER ABRASIVE MATERIAL DIRECTLY ON THE COLUMN SURFACE WHICH COULD DAMAGE THE PAINT WHILE MOVING THE LIFT.

- 3.1** USING A SAFE AND ADEQUATE HANDLING EQUIPMENT AND A LIFTING STRAP, MOVE THE COLUMN AT THE NEAREST INSTALLATION SITE. PLACE THE LIFTING STRAP AT THE CENTER OF GRAVITY (EQUAL WEIGHT DISTRIBUTION) OF THE COLUMN. SEE **FIGURE 9.**

⚠ CAUTION



- 3.2** LAY DOWN THE COLUMN TO THE GROUND.

- 3.3** MOVE THE LIFTING STRAP TO PIVOT POINT UNDER THE TIGHTENER. SEE **FIGURE 9.**

- 3.4** RAISE COLUMN 1" ABOVE GROUND

TO ROTATE IT VERTICALLY.

- 3.5** LOWER THE BASE NEAREST TO THE GROUND.

- 3.6** PUSH ON THE BASES SO THE COLUMN IS PERPENDICULAR TO THE FLOOR WHILE LOWERING IT AT THE SAME TIME TO THE GROUND.

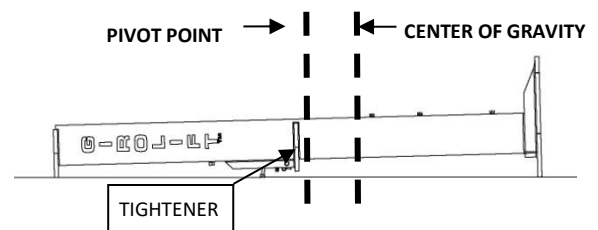
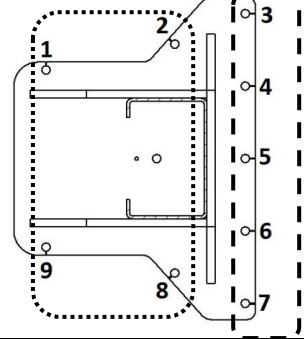
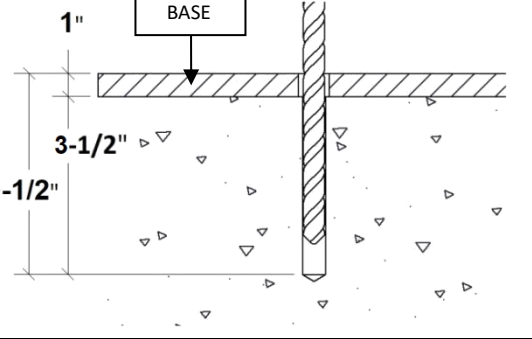


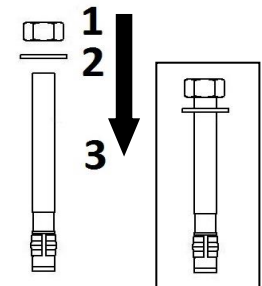
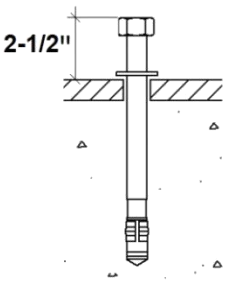
FIGURE 9 : POINT OF PIVOT AND CENTER OF GRAVITY OF A GROUND COLUMN

4. MECHANICAL ANCHOR INSTALLATION :

STEP 1*	STEP 2
	
DRILL THE 9 HOLES WITH A HAMMER DRILL TO A DEPTH OF 4-1/2" (INCLUDING BASE'S HEIGHT) : – USE CONCRETE HAMMER DRILL BIT 3/4" FOR HOLES #1, 2, 8 AND 9. – USE CONCRETE HAMMER DRILL BIT 7/8" FOR HOLES #3 TO 7. NOTE: THE INDICATED DRILLING VALUES ARE THE MINIMUM VALUES TO BE RESPECTED IF THE CONCRETE THICKNESS IS 5-1/2". THE DRILLING MEASUREMENT MAY BE DEEPER IF THE CONCRETE THICKNESS IS MORE THAN 5-1/2".	ASPIRATE REMAINS WITH A WET DRY VACUUM INSIDE CAVITIES TO THE BOTTOM AND ON THE BASES.

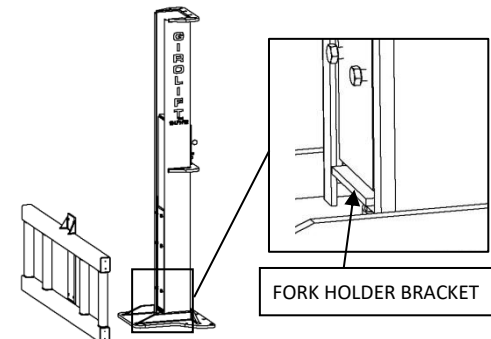
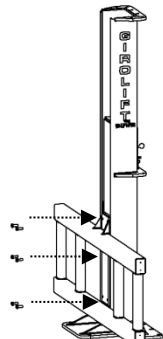
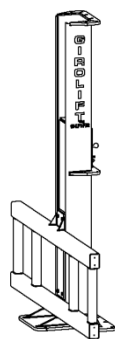
⚠ CAUTION

DO NOT DRILL THROUGH CONCRETE TO AVOID CRACKS IN THE CONCRETE FLOOR.

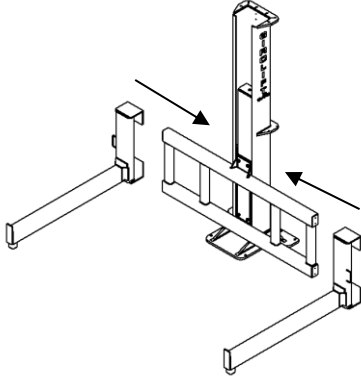
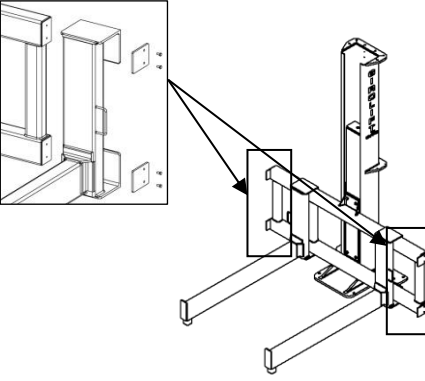
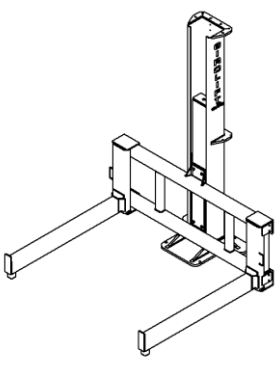
STEP 3	STEP 4	*NOTE : INSERT THE ANCHOR WITH A HAMMER ; -SCREWING THE NUT HIGHER THAN THE END OF THE ANCHOR BOLT WILL DAMAGE THE NUT THREAD AND MAKE THE COMPONENT IRRETRIEVABLE. OR - SCREWING THE NUT LOWER THAN THE END OF THE ANCHOR BOLT WILL FOLD UP THE ANCHOR BOLT ON THE NUT AND WILL NO LONGER ALLOW THE EXIT OF THE NUT.
		
ASSEMBLE THE MECHANICAL ANCHORS : 3/4" NUT (#1), 3/4" WASHER (#2) AND 3/4 x 7" LG ANCHOR BOLT (#3). SCREW THE NUT EQUALLY WITH THE ANCHOR BOLT.	INSERT THE 4 MECHANICAL ANCHORS IN THE HOLES # 1, 2, 8 ET 9 IDENTIFIED AT STEP 1 – MECHANICAL ANCHOR INSTALLATION. WITH A HAMMER, INSERT THE ANCHORS ASSEMBLED TO THE BOTTOM. **	

****NOTE :** THE ANCHORS SHOULD COME OUT OF $\approx 2-1/2"$ FROM THE BASE IF CONCRETE HAS A MINIMUM THICKNESS OF 5-1/2". IN CASE OF CONCRETE THICKNESS BIGGER THAN 5-1/2", ANCHORS SHOULD COME OUT OF AT LEAST 1" FROM THE BASE IN ORDER TO SCREW THE NUTS ON THE ANCHOR BOLTS.

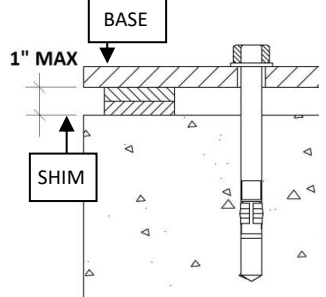
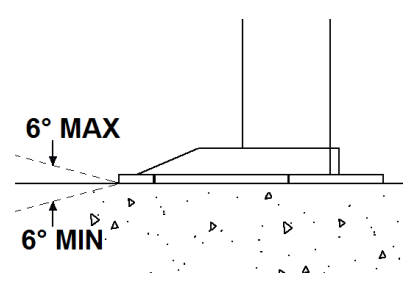
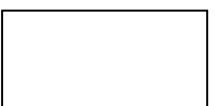
5. FORK HOLDER INSTALLATION :

STEP 1	STEP 2	STEP 3
		
1. USING A SAFE AND ADEQUATE HANDLING EQUIPMENT AND A LIFTING STRAP, BRING FORK HOLDER NEAR FIXED COLUMN. 2. INSTALL THE FORK HOLDER ON FORK HOLDER BRACKET OF THE CARRIAGE.	INSERT AND SCREW THE 6 x 3/4" NC BOLTS AT SPECIFIED LOCATIONS ON FORK HOLDER AT 100 LB-FT.	FINAL ASSEMBLY.

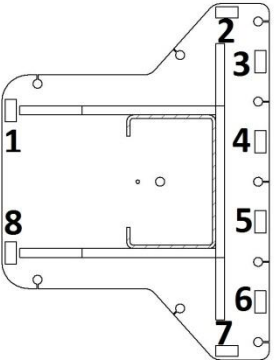
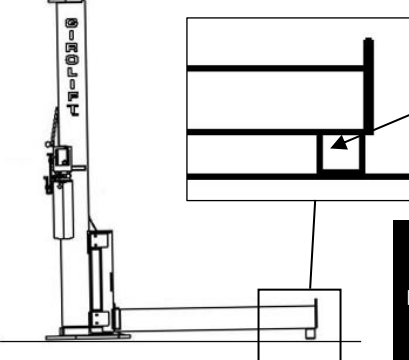
6. FORK INSTALLATION :

STEP 1	STEP 2	STEP 3
		
INSTALL AND SLIDE IN THE FORKS SUPPORTS ON THE FORK HOLDER.	INSTALL THE 4 PLATES 3/8"X5"X6" LG AND THE 8 BOLTS 3/8"X3/4" LG ON THE EXTREMITIES OF THE FORK HOLDER.	FINAL ASSEMBLY.

7. COLUMN LEVELLING* :

NOTICE 1	NOTICE 2*	NOTICE 3
		
DO NOT EXCEED 1" OF SHIM THICKNESS.	THE FLOOR SLOPE MUST NOT EXCEED 6° HIGHER OR LOWER THAN THE FLOOR LEVEL.	USE ONLY THE STEEL SHIMS SUPPLIED BY THE MANUFACTURER.

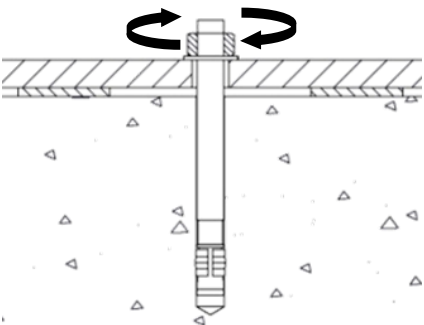
***NOTE :** COLUMNS IN VERTICAL POSITION MAY NOT BE LEVEL BUT THEY MUST BE ALIGNED BETWEEN THEM AND FOLLOW THE FLOOR LEVEL.

STEP 1**	STEP 2
 ⚠ WARNING DO NOT PUT FINGERS UNDER THE SCREWDRIVER PRY BAR DURING THIS MANEUVER RISK OF CRUSHING	 IMPORTANT FORK BASES MUST TOUCH THE GROUND
WITH SCREWDRIVER PRY BARS, PUT SHIMS AT THE 8 IDENTIFIED POINTS AT EQUAL INTERVALS BETWEEN ANCHORS SO THAT THE COLUMN IS FULLY IN A VERTICAL POSITION. ADD A 1/2" SHIM IN POSITION 1 AND 8.	WITH A LEVEL, VERIFY THAT THE COLUMN HAS AN 89° ANGLE FROM THE BACK AND THE BASE OF THE 2 FORKS ARE TOUCHING THE FLOOR. IF THE BASES DO NOT TOUCH THE GROUND, REMOVE THE 1/2" SHIM IDENTIFIED A PREVIOUS STEP AND ADD AN ADEQUATE SHIM TO RESPECT THE ANGLE.

****NOTE :** THE COLUMN BASE MUST NEVER BE IN DIRECT CONTACT WITH THE FLOOR. THE USE OF THE 8 DOTTED IDENTIFICATIONS IS REQUIRED.

8. FINISHING MECHANICAL ANCHOR INSTALLATION* :

STEP 1*



SCREW THE 4x 3/4" MECHANICAL ANCHOR NUTS WITH A TORQUE WRENCH 1-1/8" – DRIVE AT 100 POUND-FOOT.

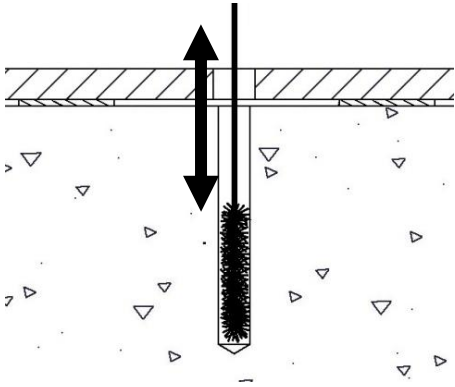
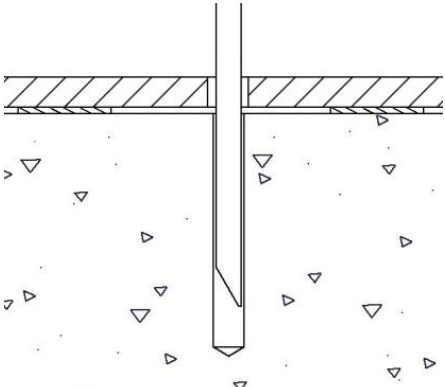
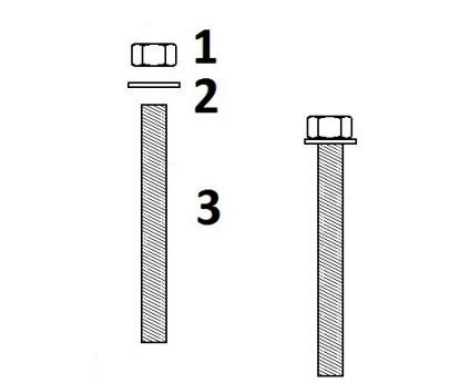
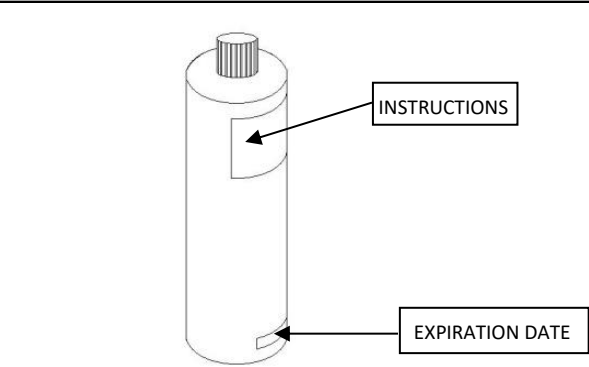
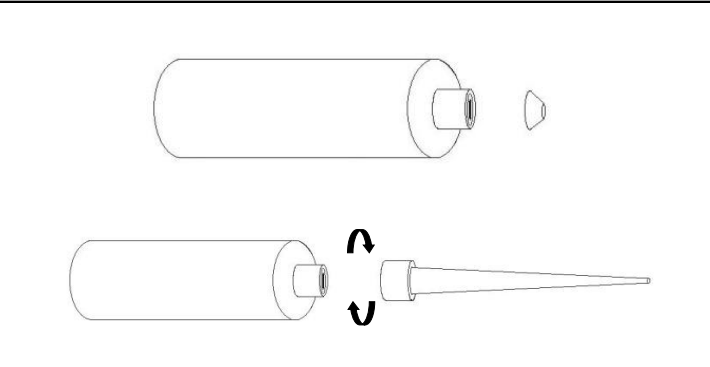
CAUTION

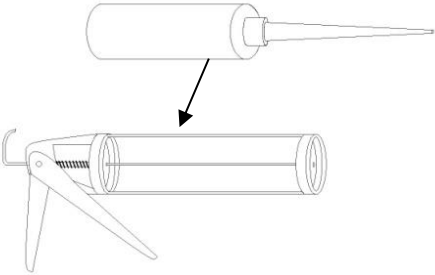
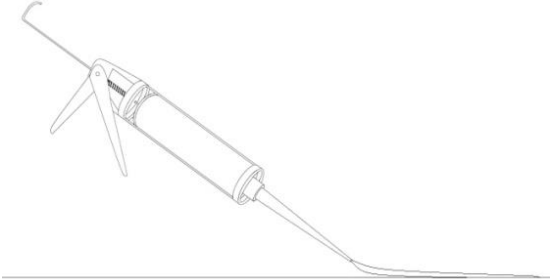
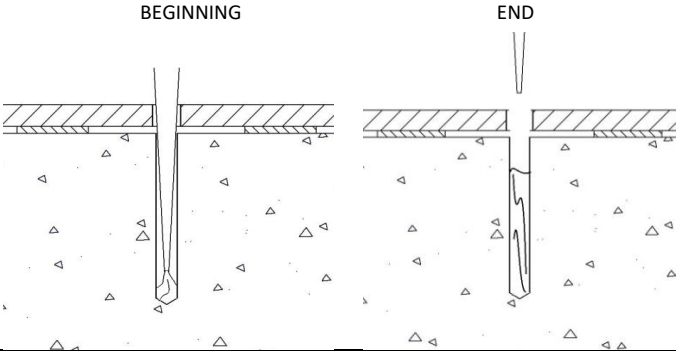
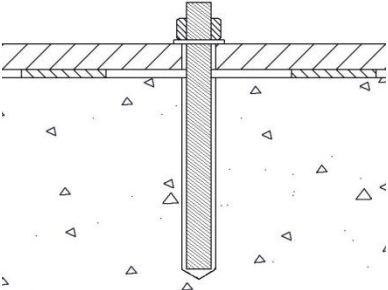
DO NOT USE AN IMPACT WRENCH TO TIGHTEN NUTS. THE VIBRATION CAUSED BY THIS TOOL CAN REDUCE THE CAPACITY OR DAMAGE THE CONCRETE.

IMPORTANT*

DO NOT USE FILLING MATERIAL OR GROUT UNDER BASES OF COLUMNS OR SEALED THE BASE TO THE FLOOR ; THIS ADDITION MAY RESTRICT THE DESIRABLE PTO FROM THE CONCRETE FLOOR AT LIFT RAISE.

9. CHEMICAL ANCHOR INSTALLATION :

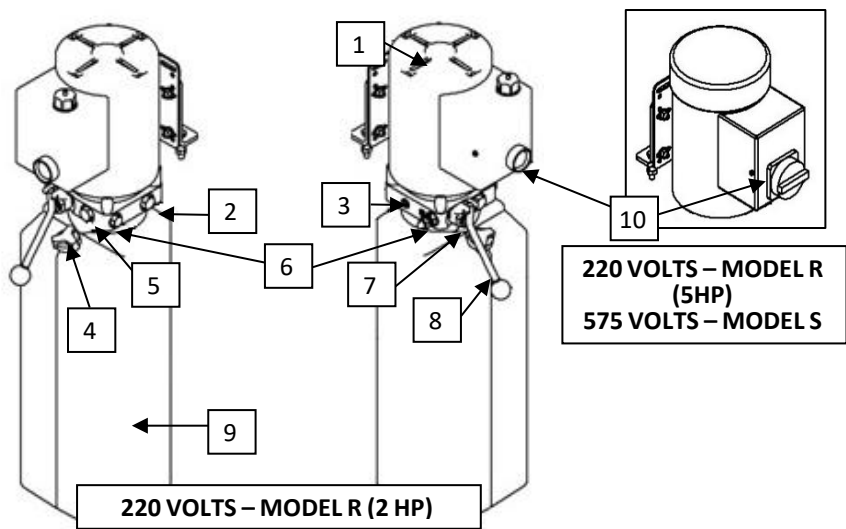
STEP 1	STEP 2	STEP 3
		
BRUSH FROM TOP TO BOTTOM IN CHEMICAL ANCHOR CAVITIES ABOUT 4 TIMES TO DISLODGE THE DEBRIS.	ASPIRATE REMAINS WITH A WET DRY VACUUM INSIDE CAVITIES TO THE BOTTOM AND ON THE BASES.	CHECK IF THE THREADED RODS OF CHEMICAL ANCHORS ARE CLEAN. CLEAN IF NEEDED. ASSEMBLE THE CHEMICAL ANCHORS : 3/4" NUT (#1), 3/4" WASHER (#2) AND 3/4 x 7" LG THREADED ROD (#3).
STEP 4	STEP 4.1	
		
CARTRIDGE PREPARATION : 1. CHECK THE EXPIRATION DATE ON THE TUBE. 2. READ AND UNDERSTAND THE INSTRUCTIONS ON THE CARTRIDGE.	OPEN CARTRIDGE BY FOLLOWING THE INSTRUCTIONS ON THE TUBE. ASSEMBLE THE MIXING NOZZLE ON THE CARTRIDGE.	

STEP 4.2	STEP 4.3
	
INSERT CARTRIDGE WITH MIXING NOZZLE INTO A RESIN GUN.	DISPENSE A SUFFICIENT QUANTITY OF RESIN ON THE SIDE UNTIL UNIFORMED COLORED ADHESIVE COMES OUT.
STEP 5*	STEP 6**
	
DISPENSE THE ADHESIVE INTO A CAVITY BY BEGINNING TO THE BOTTOM AND FILL IT AT LEAST TO THE 2/3. REPEAT ON THE 4 REMAINING CAVITIES OF CHEMICAL ANCHORS.	INSTERT CHEMICAL ANCHORS IN THE CAVITY BY SCREWING IT SLOWLY UNTIL THE REACH THE CAVITY BOTTOM. CLEAN THE ADHESIVE EXCESS.

***NOTE :** A CARTRIDGE SHOULD FILL 3 CAVITIES OF 7/8" OF DIAMETER X 4" OF DEPTH.

****NOTE :** IF THE ADHESIVE HAS BEEN DISTRIBUTED IN SUFFICIENT QUANTITY, AN ADHESIVE EXCEED SHOULD BE OBSERVED FROM THE HOLE WHEN SCREWING THE THREADED RODS IN THE CAVITIES. IN CASE OF LACK OF ADHESIVE, REMOVE THE TREADED ROD FROM CAVITY AND ADD ADHESIVE.

POWER UNIT INSTALLATION



#	ITEM
1	ELECTRIC MOTOR
2	RELIEF CARTRIDGE CAP*
3	TANK RETURN
4	HYDRAULIC VENT CAP
5	CHECK VALVE CARTRIDGE
6	HYDRAULIC INLET/OUTLET
7	RELEASE VALVE
8	PRESSURE RELEASE HANDLE
9	HYDRAULIC OIL TANK
10	ON/OFF SWITCH

***NOTE :** A SAFETY SEAL IS APPLIED TO THIS COMPONENT. BREAKING THE SEAL VOIDS THE LIFT WARRANTY

FIGURE 10 : POWER UNIT COMPONENT IDENTIFICATION

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MANUFACTURER INSTRUCTIONS

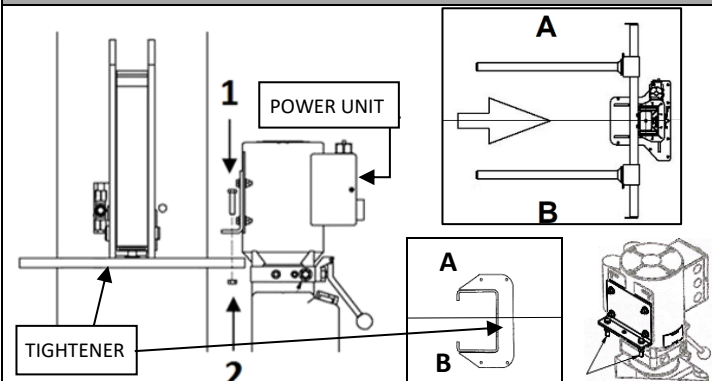
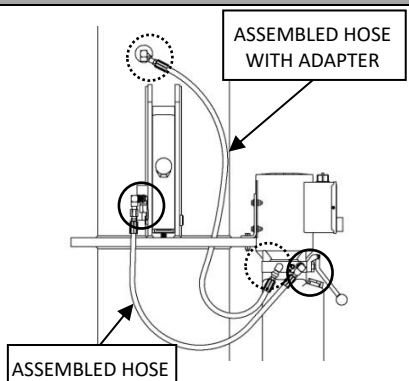
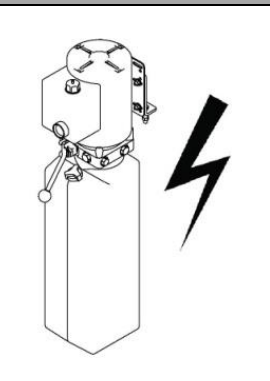
1	USE GRADE 32 HYDRAULIC OIL.
2	INSTALL POWER UNIT AT LEAST 18" ABOVE GROUND.
3	IT IS THE ELECTRICIAN RESPONSIBILITY TO DETERMINATE THE AMPERAGE (A) OF THE POWER UNIT IN ACCORDANCE WITH "TIME DELAY" OR STANDARD OVERLOAD PROTECTION INSTALLED.
4	EACH GIROLIFT SHALL BE PROVIDED WITH AN INDEPENDENT CIRCUIT, INCLUDING OVERLOAD PROTECTION. OVERLOAD PROTECTION IS NOT SUPPLIED WITH THE GIROLIFT. THE CERTIFIED ELECTRICIAN IS REQUIRED TO CHOOSE THE APPROPRIATE DISCONNECT DEVICE. IF THE DISCONNECT DEVICE IS NOT INTEGRAL TO THE LIFT, THE GIROLIFT MUST BE EQUIPPED WITH AT LEAST ONE.
5	EACH DISCONNECT DEVICE SHALL PROVIDE FOR ISOLATION SAFETY REQUIREMENTS FOR LOCKOUT/TAGOUT OF ENERGY SOURCES. SEE SECTION MAINTENANCE AND INSPECTION INSTRUCTIONS – LOCKOUT/TAGOUT

WARNING

" RISK OF EXPLOSION. THIS EQUIPMENT HAS INTERNAL ARCING AND SPARKING PARTS WHICH SHOULD NOT BE EXPOSED TO FLAMMABLE VAPORS. THIS EQUIPMENT IS ONLY SUITABLE FOR INSTALLATION IN A GARAGE HAVING SUFFICIENT AIR CIRCULATION TO BE CONSIDERED A NON-HAZARDOUS LOCATION. »

10. TANK FILLING : WITH A FUNNEL, FILL THE TANK UP TO 1" OF THE HYDRAULIC VENT CAP. FIRMLY CLOSE THE HYDRAULIC VENT CAP.

11. POWER UNIT INSTALLATION :

STEP 1		STEP 2*	STEP 3
 INSTALL THE POWER UNIT TO THE COLUMN TIGHTENER WITH 2 BOLTS (#1) AND 2 NUTS (#2). DIAL A IS RECOMMENDED, FOR ANY OTHER CHANGE, SETTLE THE ADAPTER POSITIONING. DIAL A DIAL B ADAPTER BACK OF THE POWER UNIT WITH BRACKET VIEW		 ASSEMBLED HOSE WITH ADAPTER ASSEMBLED HOSE	
		CONNECT THE Ø1/4" x 38" LG ASSEMBLED HOSE AND THE Ø1/4" x 38" LG ASSEMBLED HOSE WITH ADAPTERS TO THE POWER UNIT AND THE DEVICE ON THE MASTER COLUMN.	CONNECT THE POWER UNIT TO THE ELECTRIC PANEL BY A CERTIFIED ELECTRICIAN. NOTE: 575 V POWER UNIT WIRING MUST BE DONE COUNTERCLOCKWISE.

***NOTE :** DO NOT PUT ON TEFLON TAPE AT THE ENDS OF THE Ø1/4" x 38" ASSEMBLED HOSE.

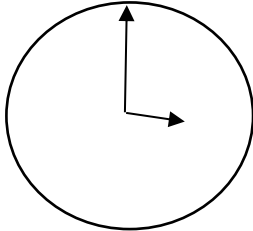
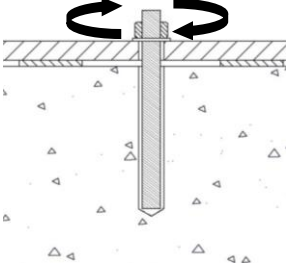
MAN-10-LF1-F72-C01-E

208-230/1/60 MOTOR CONNECTION		575/3/60 MOTOR CONNECTION
R MODEL (2 HP) 17 A : CABLE SJOOW 12/3	R MODEL (5 HP) 26 A : CABLE SJOOW 10/3	S MODEL 4 A : CABLE SOOW 16/4

12. BLACK HANDLE INSTALLATION :

STEP 1	STEP 2
SCREW THE NUT ONTO THE BOLT TO RELEASE THE END OF THE BOLT.	SCREW THE BLACK HANDLE ONTO THE BOLT. UNSCREW THE NUT FIRMLY AGAINST THE BLACK HANDLE

13. FINISHING CHEMICAL ANCHOR INSTALLATION :

STEP 1	STEP 2																					
 <table><tr><th>°F</th><th>°C</th><th>CURE TIME</th></tr><tr><td>14°</td><td>-10°</td><td>24 HRS</td></tr><tr><td>32°</td><td>0°</td><td>8 HRS</td></tr><tr><td>50°</td><td>10°</td><td>3 HRS</td></tr><tr><td>68°</td><td>20°</td><td>1 HR</td></tr><tr><td>86°</td><td>30°</td><td>30 MIN</td></tr><tr><td>100°</td><td>38°</td><td>20 MIN</td></tr></table>	°F	°C	CURE TIME	14°	-10°	24 HRS	32°	0°	8 HRS	50°	10°	3 HRS	68°	20°	1 HR	86°	30°	30 MIN	100°	38°	20 MIN	
°F	°C	CURE TIME																				
14°	-10°	24 HRS																				
32°	0°	8 HRS																				
50°	10°	3 HRS																				
68°	20°	1 HR																				
86°	30°	30 MIN																				
100°	38°	20 MIN																				
LET THE CHEMICAL ANCHOR RESIN DRY OUT ACCORDING TO THE AMBIENT TEMPERATURE OF THE INSTALLATION SITE. NOTE : DOUBLED CURE TIME IF WATER SATURATED CONCRETE.	SCREW THE 5x 3/4" CHEMICAL ANCHOR NUTS WITH A TORQUE WRENCH 1-1/8" — DRIVE AT 100 POUND-FOOT.																					

OPERATING TEST

⚠ WARNING

OPERATING TESTS CANNOT BE PERFORMED UNLESS THE CHEMICAL AND MECHANICAL ANCHORS ARE TIGHTEN TO 100 LB-PI.

TEST UNDER PRESSURE

⚠ WARNING

IN NO CASE, THE OIL LEAKAGE TEST SHOULD BE PERFORMED ON AN EMPTY HYDRAULIC LINE.

1. ACTIVATE THE HYDRAULIC UNIT AND MAINTAIN IT UNDER PRESSURE SO THAT THE FORKS REMAIN AT THE MAXIMUM HEIGHT FOR AT LEAST 5 SECONDS.

2. VERIFY VISUALLY THE HYDRAULIC LINE (HYDRAULIC UNIT, CYLINDERS AND LINE BETWEEN COLUMNS) IS FREE OF OIL LEAKAGE.

⚠ WARNING

NEVER USE BARE HANDS TO DETECT OIL LEAKS ON THE HYDRAULIC LINE.

HYDRAULIC OIL FROM THE HIGH-PRESSURE SYSTEM MAY PERFORATE THE SKIN OR CAUSE SERIOUS INJURY.

3. PUSH DOWN PRESSURE RELEASE HANDLE TO RELEASE PRESSURE OF HYDRAULIC SYSTEM.
4. VERIFY MANUALLY IF THE REAR PART OF THE CYLINDER IS FREE OF OIL LEAKAGE.
5. PUSH DOWN PRESSURE RELEASE HANDLE OF THE HYDRAULIC UNIT TO LOWER THE SWING ARMS ON THE NEAREST LOAD HOLDER (WITHOUT TOUCHING THE LOAD HOLDER).
6. MAKE SURE THAT THE STOP BLOCK OF THE CARRIAGE IS CORRECTLY IMMOBILIZED ON THE RETRACTABLE LOAD HOLDERS. PULL ON THE BLACK HANDLE ON THE LOAD HOLDER :
- IF THE LOAD HOLDER REMAINS IMMOBILIZED : THE STOP BLOCK IS LOCKED.
 - IF THE LOAD HOLDER MOVES, GO BACK TO STEP 5.
7. ACTIVATE THE HYDRAULIC UNIT TO RAISE THE LIFTING FORKS APPROXIMATELY 2" HIGHER.
8. PULL ON THE BLACK HANDLE ON THE LOAD HOLDER AND THEN PUSH DOWN PRESSURE RELEASE HANDLE BY MAINTAINING BOTH IN THIS POSITION TO LOWER THE LIFTING FORKS TO THE GROUND.
9. CHECK FOR OIL LEAKAGE ON OVERALL HYDRAULIC LINE OF THE LIFT AND ON THE FLOOR.

LIFTING FORK SLIDING TEST

1. CHECK IF THE FORKS SLIDE ON THE FORK HOLDER. SEE **FIGURES 11** AND **12**.

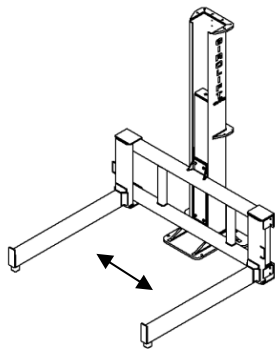


FIGURE 11 : OPENED FORKS POSITION

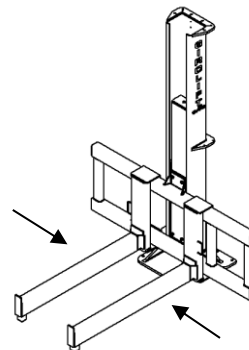


FIGURE 12 : CLOSED FORKS POSITION

OPERATING TEST WITH A TYPICAL VEHICLE

⚠ CAUTION

IN NO CASE THE LOADING AND UNLOADING OF THE VEHICLE SHALL BE PERFORM IF THE LIFTING FORK BASES ARE NOT ON THE GROUND. SEE **FIGURES 13** AND **14**.

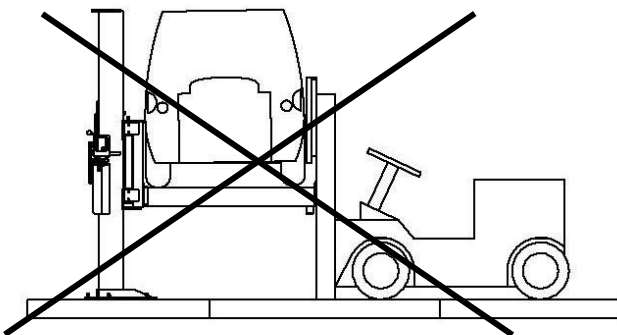


FIGURE 13 : NON ACCEPTABLE POSITION FOR LOADING AND UNLOADING

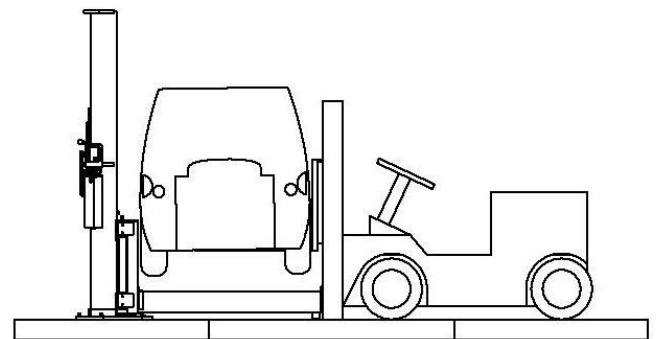


FIGURE 14 : ACCEPTABLE POSITION FOR LOADING AND UNLOADING

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1. SELECT A TYPICAL VEHICLE WITH A WEIGHT AS CLOSE AS POSSIBLE TO THE LIFT CAPACITY.

VEHICLE ENTRANCE IN WORK BAY :

2. PUSH DOWN PRESSURE RELEASE HANDLE TO LOWER THE LIFTING FORKS TO THE GROUND.
3. ADJUST FORKS OPENING ACCORDING TO THE VEHICLE LENGTH.
4. USING A SAFE AND ADEQUATE HANDLING EQUIPMENT AND A LIFTING STRAP, DRIVE IN THE CARCASS CAR OVER THE FORKS.
5. LOWER THE VEHICLE ON THE LIFTING FORKS SO THAT IT IS AS CLOSE AS POSSIBLE TO THE FORK HOLDER WHILE THE VEHICLE CENTER OF GRAVITY IS POSITIONED TOWARDS THE COLUMN. SEE **FIGURE 15**.

MAXIMUM VEHICLE RAISING:

6. ACTIVATE THE HYDRAULIC UNIT TO RAISE THE TYPICAL VEHICLE TO 1" ABOVE THE GROUND
7. CHECK IF THE VEHICLE IS COMPLETELY IN CONTACT ON THE 2 FORKS. PUSH Laterally ON THE VEHICLE TO CHECK ITS STABILITY AND LEVELING ; THE VEHICLE MUST BE STABLE AND LEVELED. IF IT IS NOT THE CASE :
 - 7.1 PUSH DOWN PRESSURE RELEASE HANDLE TO LOWER THE LIFTING FORKS TO THE GROUND.
 - 7.2 REPLACE THE VEHICLE BY LIFTING IT BY USING A SAFE AND ADEQUATE HANDLING EQUIPMENT AND A LIFTING STRAP. RESUME STEP 6 AND 7.
8. PUSH DOWN PRESSURE RELEASE HANDLE OF THE HYDRAULIC UNIT TO LOWER THE VEHICLE AND TO LEAN THE CARRIAGE STOP BLOCKS ON THE NEAREST LOAD HOLDER. (WITHOUT PULLING THE BLACK HANDLE ON THE LOAD HOLDER)

MAXIMUM VEHICLE DESCENT : (TO THE GROUND)

9. ACTIVATE THE HYDRAULIC UNIT TO RAISE THE VEHICLE OF 2" TO DISENGAGE THE STOPS BLOCKS FROM THE LOAD HOLDERS.
10. PULL ON THE BLACK HANDLE ON THE LOAD HOLDER AND THEN PUSH DOWN PRESSURE RELEASE HANDLE BY MAINTAINING BOTH IN THIS POSITION TO LOWER THE LIFTING FORKS TO THE GROUND.

VEHICLE EXIT FROM WORK BAY :

11. USING A SAFE AND ADEQUATE HANDLING EQUIPMENT AND A LIFTING STRAP, LIFT THE CARCASS CAR OVER THE FORKS.
12. DRIVE OUT THE VEHICLE TYPE FROM THE WORKING BAY.
13. CHECK FOR OIL LEAKAGE ON OVERALL HYDRAULIC LINE OF THE LIFT AND ON THE FLOOR.

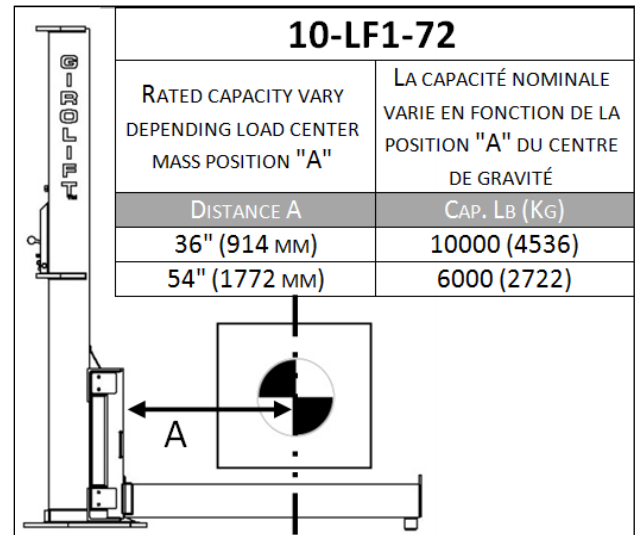


FIGURE 15 : RATED CAPACITY VARIES WITH CENTER OF GRAVITY LOCATION ON FORKS.

**INSTALLER : RETURN THIS MANUAL WITH OTHER INSTRUCTIONAL MATERIALS
FURNISHED WITH THE LIFT AND GIVE TO OWNER/USER/EMPLOYER.**

OPERATING INSTRUCTIONS

REFER TO : ANSI/ALI ALOIM : STANDARD FOR AUTOMOTIVE LIFTS - SAFETY REQUIREMENTS FOR OPERATION, INSPECTION AND SERVICE

OWNER / EMPLOYER RESPONSIBILITY

OWNER / EMPLOYER :

- ✓ SHALL ENSURE THAT LIFT OPERATORS ARE QUALIFIED AND THAT THEY ARE TRAINED IN THE SAFE USE AND OPERATION OF THE LIFT USING THE MANUFACTURER'S OPERATING INSTRUCTIONS: ALI-SM, LIFTING IT RIGHT – A SAFETY MANUAL FROM THE AUTOMOTIVE LIFT INSTITUTE, ALI-ST, AUTOMOTIVE LIFT SAFETY TIPS, ANSI/ALI ALOIM, STANDARD FOR AUTOMOTIVE LIFTS – SAFETY REQUIREMENT FOR OPERATION, INSPECTION AND MAINTENANCE, ALI/WL SERIES AND ALI UNIFORM WARNING LABEL DECALS/PLACARDS.
- ✓ SHALL ESTABLISH PROCEDURES TO PERIODICALLY INSPECT THE LIFT IN ACCORDANCE WITH THE LIFT MANUFACTURER'S INSTRUCTIONS OR ANSI/ALI ALOIM; AND THE EMPLOYER SHALL ENSURE THAT LIFT INSPECTORS ARE QUALIFIED AND THAT THEY ARE ADEQUATELY TRAINED IN THE INSPECTION OF THE LIFT.
- ✓ SHALL ESTABLISH PROCEDURES TO PERIODICALLY MAINTAIN THE LIFT IN ACCORDANCE WITH THE LIFT MANUFACTURER'S INSTRUCTIONS OR ANSI/ALI ALOIM; AND THE EMPLOYER SHALL ENSURE THAT LIFT MAINTENANCE PERSONNEL ARE QUALIFIED AND THAT THEY ARE ADEQUATELY TRAINED IN THE MAINTENANCE OF THE LIFT.
- ✓ SHALL MAINTAIN THE PERIODIC INSPECTION AND MAINTENANCE RECORDS RECOMMENDED BY THE MANUFACTURER OR ANSI/ALL ALOIM.
- ✓ SHALL DISPLAY THE LIFT MANUFACTURER'S OPERATING INSTRUCTIONS, ALI/SM, ALI/ST AND ANSI/ALI ALOIM IN A CONSPICUOUS LOCATION IN THE LIFT AREA CONVENIENT TO THE OPERATOR.
- ✓ SHALL PROVIDE NECESSARY LOCKOUT/TAG OUT MEANS FOR ENERGY SOURCES PER ANSI Z244.1 – SAFETY REQUIREMENTS FOR THE LOCKOUT/TAGOUT OF ENERGY SOURCES, BEFORE BEGINNING ANY LIFT REPAIRS.
- ✓ SHALL NOT MODIFY THE LIFT IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF THE MANUFACTURER.
- ✓ SHALL ENSURE THAT REPLACE WORN, DAMAGED OR BROKEN PARTS WITH PARTS APPROVED BY THE ORIGINAL EQUIPMENT MANUFACTURER OR WITH PARTS MEETING ORIGINAL MANUFACTURER SPECIFICATIONS

IMPORTANT SAFETY INSTRUCTIONS

1. READ ALL INSTRUCTIONS.
2. INSPECT THE LIFT DAILY AND MONTHLY. NEVER OPERATE THE LIFT IF IT IS MALFUNCTIONS OR HAS BROKEN OR DAMAGED PARTS. USE ONLY LIFT PLANNED SERVICE PERSONNEL AND GENUINE PARTS TO MAKE REPAIRS.
3. THOROUGHLY TRAIN ALL EMPLOYEES IN USE AND CARE OF LIFT, USING MANUFACTURER'S INSTALLATION AND OPERATING INSTRUCTIONS MANUAL AND ALI/SM – LIFTING IT RIGHT AND ALI/ST – SAFETY TIPS SUPPLIED WITH THE LIFT.
4. NEVER ALLOW UNAUTHORIZED OR UNTRAINED PERSON PERSONS TO POSITION VEHICLE OR OPERATE LIFT.
5. PROHIBIT UNAUTHORIZED PERSON FROM BEING IN SHOP AREA WHILE LIFT IS IN USE.

NOTE : SINCE 1994, AUTOMOTIVE'S MANUFACTURERS MAY HAVE IDENTIFIED THEIR RECOMMENDED LIFTING POINTS ON VEHICLES. THE POINTS ARE IDENTIFIABLE ON A LABEL ON THE VERTICAL LOCK FACE PLATE OF THE FRONT PASSENGER SIDE DOOR, IN GLOVE BOX, OR UNDER THE HOOD (SAE J2184 – VEHICLE LIFT POINTS FOR SERVICE GARAGE LIFTING).

THE LIFTING POINTS ARE IDENTIFIED BY HOLES, BOSSES, AND/OR DEPRESSIONS IN SHAPE OF EQUILATERAL TRIANGLE OR A SUPPLEMENTAL, SUCH AS A LIFT PAD, IDENTICAL TO THE TRIANGLE UNDER CAR BODY. REFER TO ALI/LP-GUIDE OF THE LAST 20 YEARS CAR MODELS. SEE **FIGURE 16**.

6. MAKE SURE LIFTING POINTS UNDER VEHICLE ARE FREE OF RUST, ICE, OIL OR BREAKAGE.
7. LOAD VEHICLE CAREFULLY. POSITION LIFT ADAPTERS TO CONTACT AT THE VEHICLE MANUFACTURER'S RECOMMENDED LIFT POINTS. RAISE LIFT UNTIL ADAPTERS CONTACT VEHICLE. CHECK ADAPTERS TO SECURE CONTACT WITH VEHICLE. RAISE LIFT TO DESIRED WORKING HEIGHT.

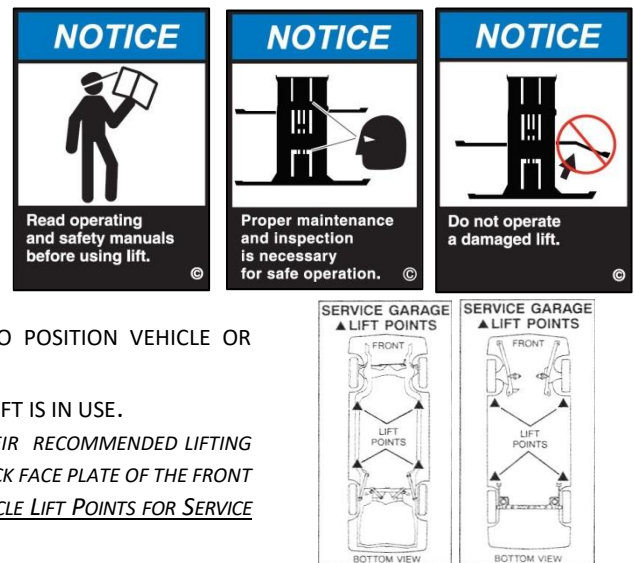


FIGURE 16 : TYPICAL LABEL DRAWING
SEA J2184

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NOTE : THE CENTER OF GRAVITY IS THE POINT BETWEEN THE FRONT AND REAR OF THE VEHICLE WHERE THE WEIGHT IS DISTRIBUTED EQUALLY. EACH VEHICLE HAVE A DIFFERENT CENTER OF GRAVITY LOCATION DUE TO WEIGHT DISTRIBUTION, WHEEL BASE, DRIVE TRAIN'S LOCATION AND OTHER FACTOR SUCH AS CARGO.

THE CENTER OF GRAVITY ON REAR-WHEEL DRIVE (RWD) PASSENGER CARS IS BELOW THE DRIVER'S SEAT. ON FRONT-WHEEL DRIVE (FWD) PASSENGER CARS, THE CENTER OF GRAVITY IS SLIGHTLY IN FRONT OF THE DRIVER'S SEAT.

8. USE THE LIFT ONLY FOR THE PURPOSE FOR WHICH IT WAS DESIGNED FOR.
9. ALWAYS KEEP AREA LIFT FREE OF TOOLS, DEBRIS, GREASE OR OIL.
10. DO NOT PERMIT ANYONE ON LIFT OR INSIDE VEHICLE WHEN IT IS EITHER BEING RAISED OR LOWERED.
11. NEVER OVERLOAD LIFT. LIFT CAPACITY IS SHOWN ON THE NAMEPLATE AFFIXED TO THE LIFT.
12. ALL LIFT ACCESSORIES SUPPLIED SHOULD STRICTLY BE USED FOR THE SPECIFIED MODEL AND BE ALI CERTIFIED. THE USE OF LIFT ACCESSORIES OF ANOTHER BRAND AND/OR NON ALI CERTIFIED ON A GIROLIFT WILL VOID ALI CERTIFICATION AND CANADA HYDRAULIC EQUIPMENT INC WARRANTY.
13. DO NOT BLOCK OPEN OR OVERRIDE SELF-CLOSING LIFT CONTROLS; THEY ARE DESIGNED TO RETURN TO THE "OFF" POSITION OR NEUTRAL POSITION WHEN RELEASED.
14. BEFORE LIFTING AN UNUSUAL VEHICLE (LIMOUSINE, RV'S, LONG WHEELBASE AND SHORT WHEELBASE VEHICLES, ETC.) OR USE SPECIAL ADAPTERS, CONTACT THE LIFT MANUFACTURER.
15. CARE MUST BE TAKEN AS BURNS CAN OCCUR FROM TOUCHING HOT PARTS.
16. DO NOT OPERATE EQUIPMENT WITH A DAMAGED CORD OR IF THE EQUIPMENT HAS BEEN DROPPED OR DAMAGED — UNTIL IT HAS BEEN EXAMINED BY A TRAINED SERVICE PERSON.
17. DO NOT LET A CORD HANG OVER THE EDGE OF THE TABLE, BENCH, OR COUNTER OR COME IN CONTACT WITH HOT MANIFOLDS OR MOVING FAN BLADES.
18. IF AN EXTENSION CORD IS NECESSARY, A CORD WITH A CURRENT RATING EQUAL TO OR MORE THAN THAT OF THE EQUIPMENT SHOULD BE USED. CORDS RATED FOR LESS CURRENT THAN THE EQUIPMENT MAY OVERHEAT. CARE SHOULD BE TAKEN TO ARRANGE THE CORD SO THAT IT WILL NOT BE TRIPPED OVER OR PULLED.
19. ALWAYS UNPLUG EQUIPMENT FROM ELECTRICAL OUTLET WHEN NOT IN USE. NEVER USE THE CORD TO PULL THE PLUG FROM THE OUTLET. GRASP PLUG AND PULL TO DISCONNECT.
20. LET EQUIPMENT COOL COMPLETELY BEFORE PUTTING AWAY. LOOP CORD LOOSELY AROUND EQUIPMENT WHEN STORING.
21. TO REDUCE THE RISK OF FIRE, DO NOT OPERATE EQUIPMENT IN THE VICINITY OF OPEN CONTAINERS OF FLAMMABLE LIQUIDS (GASOLINE).
22. ADEQUATE VENTILATION SHOULD BE PROVIDED WHEN WORKING ON OPERATING INTERNAL COMBUSTION ENGINES.
23. KEEP HAIR, LOOSE CLOTHING, FINGERS, AND ALL PARTS OF BODY AWAY FROM MOVING PARTS.
24. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT USE ON WET SURFACES OR EXPOSE TO RAIN.
25. ALWAYS WEAR SAFETY GLASSES. EVERYDAY EYEGLASSES ONLY HAVE IMPACT RESISTANT LENSES, THEY ARE NOT SAFETY GLASSES.
26. TO REDUCE THE RISK OF ELECTRIC SHOCK OR FIRE, NEVER OVERLOAD RECEPTACLES. REFER TO MARKINGS FOR THE PROPER LOAD ON RECEPTACLES.

SAVE THESE INSTRUCTIONS

NOTE : THESE SAFETY INSTRUCTIONS DO NOT COVER ALL RISKS OF A LIFT USE. IF AN INJURY HAS OCCURRED OR COULD HAVE HAPPENED, DETERMINE THE CAUSE TO PREVENT IT. ALWAYS REMAIN WATCHFUL.



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FOR ADDITIONAL SAFETY INSTRUCTIONS : VARIOUS LIFT MODELS, LABELS, LIFTING PREPARATION, VEHICLE POSITIONING, VEHICLE LIFTING METHODS, LOAD CAPACITY, EMERGENCY PROCEDURES, VEHICLE LOWERING, LIFTING LIMITS, MAINTENANCE, WORKSHOP BEST PRACTICES. TRAINING AND OWNER / EMPLOYER RESPONSIBILITY REFER TO : ALI/SM, ALI/ST, ANSI/ALI ALOIM AND SAE J2184.

LIFT OPERATION

CAUTION

IN NO CASE THE LOADING AND UNLOADING OF THE VEHICLE SHALL BE PERFORM IF THE LIFTING FORK BASES ARE NOT ON THE GROUND. SEE **FIGURES 13** AND **14**.

NEVER USE A GIROLIFT IF THE LIFT :

 CAUTION	PROBLEMS	EXPLANATIONS
	SLOWLY RISES WHEN NOT IN USE.	ELECTRICAL PROBLEM ON POWER UNIT THAT CAN NO LONGER BE CONTROLLED AT THE LIFT RAISING.
	LEAKS AT THE HYDRAULIC CONDUITS.	DEPENDING OF THE SEVERITY AND THE LOCATION OF THE LEAK, A REPAIR SHOULD BE PERFORMED BY A TRAINED LIFT SERVICE PERSONNEL.

VEHICLE ENTRANCE IN WORK BAY :

1. PUSH DOWN PRESSURE RELEASE HANDLE TO LOWER THE LIFTING FORKS TO THE GROUND.
2. ADJUST FORKS OPENING ACCORDING TO THE VEHICLE LENGTH.
3. USING A SAFE AND ADEQUATE HANDLING EQUIPMENT AND A LIFTING STRAP, DRIVE IN THE CARCASS CAR OVER THE FORKS.
4. LOWER THE VEHICLE ON THE LIFTING FORKS SO THAT IT IS AS CLOSE AS POSSIBLE TO THE FORK HOLDER WHILE THE VEHICLE CENTER OF GRAVITY IS POSITIONED TOWARDS THE COLUMN. SEE **FIGURE 15**.

VEHICLE ASCENT :

5. ACTIVATE THE HYDRAULIC UNIT TO RAISE THE TYPICAL VEHICLE TO 1" ABOVE THE GROUND. SEE **FIGURE 17**.
6. CHECK IF THE VEHICLE IS COMPLETELY IN CONTACT ON THE 2 FORKS. PUSH Laterally ON THE VEHICLE TO CHECK ITS STABILITY AND LEVELING ; THE VEHICLE MUST BE STABLE AND LEVELED. IF IT IS NOT THE CASE :
 - 6.1 PUSH DOWN PRESSURE RELEASE HANDLE TO LOWER THE LIFTING FORKS TO THE GROUND.
 - 6.2 REPLACE THE VEHICLE BY LIFTING IT BY USING A SAFE AND ADEQUATE HANDLING EQUIPMENT AND A LIFTING STRAP. RESUME STEP 5 AND 6.
7. ACTIVATE THE HYDRAULIC UNIT UP TO THE DESIRED HEIGHT

LOAD MAINTAINING :

8. PUSH DOWN PRESSURE RELEASE HANDLE OF THE HYDRAULIC UNIT TO LOWER THE VEHICLE AND TO LEAN THE CARRIAGE STOP BLOCKS ON THE NEAREST LOAD HOLDER. (WITHOUT PULLING THE BLACK HANDLE ON THE LOAD HOLDER)

IMPORTANT

LOAD HOLDERS ARE USED TO :

- STABILIZE AND MAINTAIN THE VEHICLE AT LEVEL ON A MECHANICAL SUPPORT.
- REDUCE EARLY WEAR OF COMPONENTS AND HYDRAULIC FITTINGS ; ALLOW THE HYDRAULIC SYSTEM TO BE FREE OF HYDRAULIC PRESSURE BETWEEN EACH USE.
- INCREASE USER AND EQUIPMENT SAFETY AROUND AND UNDER THE LIFT IN CASE OF A MECHANICAL BREAK.

VEHICLE DESCENT :

9. ACTIVATE THE HYDRAULIC UNIT TO RAISE THE VEHICLE OF 2" TO DISENGAGE THE STOPS BLOCKS FROM THE LOAD HOLDERS.
10. PULL ON THE BLACK HANDLE ON THE LOAD HOLDER AND THEN PUSH DOWN PRESSURE RELEASE HANDLE BY MAINTAINING BOTH IN THIS POSITION TO LOWER THE LIFTING FORKS TO THE GROUND TO INTERMEDIATE HEIGHT.
11. TO MAINTAIN THE LOAD, RESUME STEP 8.
12. PULL ON THE BLACK HANDLE ON THE LOAD HOLDER AND THEN PUSH DOWN PRESSURE RELEASE HANDLE BY MAINTAINING BOTH IN THIS POSITION TO LOWER THE LIFTING FORKS TO THE GROUND.

VEHICLE EXIT FROM WORK BAY :

13. USING A SAFE AND ADEQUATE HANDLING EQUIPMENT AND A LIFTING STRAP, LIFT THE CARCASS CAR OVER THE FORKS.
14. DRIVE OUT THE VEHICLE TYPE FROM THE WORKING BAY.

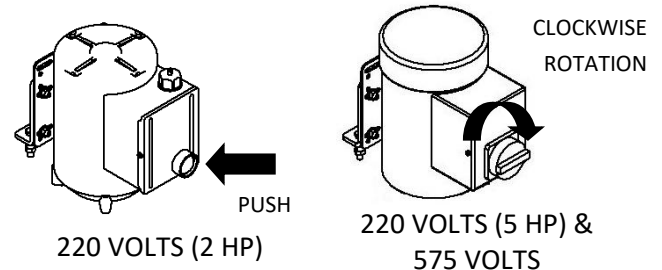


FIGURE 17 : POWER UNIT ACTIVATION

MAINTENANCE AND INSPECTION INSTRUCTIONS

REFER TO : ANSI/ALI ALOIM : STANDARD FOR AUTOMOTIVE LIFTS - SAFETY REQUIREMENTS FOR OPERATION, INSPECTION AND SERVICE

MAINTENANCE INSTRUCTIONS

- BE FAMILIAR WITH LIFT MAINTENANCE PROCEDURES.
- PERMIT ONLY TRAINED LIFT SERVICE PERSONNEL TO PERFORM MAINTENANCE OF GIROLIFT.

WORKSHOP BEST PRACTICES

REFER TO : ANSI/ALI SM : LIFTING IT RIGHT – A SAFETY MANUAL FROM THE AUTOMOTIVE LIFT INSTITUTE

1. RAISE THE FORK HOLDER AND THE FORKS 3' ABOVE THE GROUND TO CLEAN THE FLOOR TO AVOID DUST IN THE SLOTS OF FORKS OR IN THE COLUMNS SLIDERS.

LIFT CLEANING



NEVER USE WATER OR CORROSIVE PRODUCTS TO CLEAN; THESE SOLUTIONS ACCELERATE THE CORROSION AND CAN CONTRIBUTE OF PAINT PEELING.

LIGHT CLEANING

NOTE : USE THIS METHOD IF THE LIFT IS MAINTAINED DAILY.

1. DAILY CLEAN THE LIFT WITH A CLEAN AND DRY RAG, INCLUDING CYLINDER BASE AND COLUMN BASE.
2. LUBRICATE CYLINDER BASE AND COLUMN BASE. SEE MAINTENANCE AND INSPECTION INSTRUCTIONS – LIFT LUBRICATION.

HEAVY-DUTY CLEANING

NOTE: USE THIS METHOD IF LIFT CLEANING HAS BEEN NEGLECTED OR TO REMOVE STUBBORN RESIDUE.

1. DAILY CLEAN THE LIFT WITH A CLEAN AND DRY RAG, INCLUDING CYLINDER BASE AND COLUMN. SCRAPE IF NEEDED.
2. COAT CYLINDER BASE AND COLUMN BASE WITH BRAKE CLEANER TO DISLODGE STUBBORN RESIDUE.



QUICKLY REMOVE THE BRAKE CLEANER; THIS PRODUCT ACCELERATES PAINT PEELING.

3. CLEAN WITH A DRY AND CLEAN RAG.
4. LUBRICATE CYLINDER BASE AND COLUMN BASE. SEE MAINTENANCE AND INSPECTION INSTRUCTIONS – LIFT LUBRICATION.

LIFT LUBRICATION



ALWAYS USE A DRY LUBRICANT WITH TEFLON TO LUBRICATE THE INSIDE OF THE FOUR CORNERS OF THE COLUMNS : THE USE OF ANY OTHER LUBRICANT COULD CAUSE AN ACCUMULATION OF PARTICLES, DIRT AND DUST. THIS CLUSTER BECOMES A PASTE OVER TIME AND CAN MAKE RAISING AND LOWERING OF THE COLUMNS DIFFICULT.

GENERAL LUBRICATION

1. CLEAN THE LIFT COMPONENTS BEFOREHAND. SEE MAINTENANCE AND INSPECTION INSTRUCTIONS SECTION – LIFT CLEANING.
2. LUBRICATE THE LIFT WITH A DRY TEFLON-BASED LUBRICANT: THE 4 INSIDE CORNERS OF THE COLUMNS FROM TOP TO BOTTOM.

BASES OF THE CYLINDER AND BASES COLUMNS LUBRICATION

1. CLEAN THE CYLINDER BASE AND COLUMN BASE BEFOREHAND. SEE MAINTENANCE AND INSPECTION INSTRUCTIONS – LIFT CLEANING.
2. LUBRICATE THE EDGE BETWEEN THE CYLINDER BASE AND COLUMN BASE, AND THE BOLT OF THE CYLINDER BASE WITH AUTOMATIC TRANSMISSION OIL. SEE **FIGURE 18** IN DOTTED LINE.

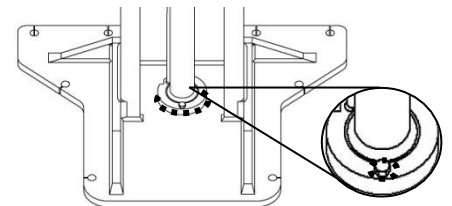


FIGURE 18 : LUBRIFICATION BASE DU CYLINDRE

DAILY MAINTENANCE

NOTE : USER MAINTENANCE FORM FOR 1 POST LIFT AVAILABLE AT ANNEX 2.

1. VISUAL COMPLIANCE OF ANCHORS : VISUALLY ENSURE ALL ANCHOR NUTS AND WASHERS ARE FULLY IN CONTACT WITH THE COLUMN BASES.

IN CASE OF NON-COMPLIANCE : REAPPLY THE TIGHTENING TORQUE OF 100 POUND-FEET ON ALL 3/4" ANCHORS.

NOTE : IF ANCHORS MUST BE TIGHTENED MORE THAN ONCE BETWEEN THE ANNUAL INSPECTION, CONTACT THE MANUFACTURER.

DO NOT TIGHTEN ANCHORS USELESSLY.

2. VISUAL FLOOR COMPLIANCE : ENSURE VISUALLY THAT THE ANCHORS ARE MORE THAN 6" FROM A SIGN OF FLOOR FATIGUE (CRACKS, HEAVE, DEFORMATION, ETC.).

IN CASE OF NON-COMPLIANCE : CONTACT THE LIFT MANUFACTURER.

NOTE : KEEP A RECORD OF THE CONDITION OF THE FLOOR TO FOLLOW THE EVOLUTION OF THE FLOOR WEAKNESS.

3. VISUAL COMPLIANCE OF THE HYDRAULIC SYSTEM : VISUALLY VERIFY THAT THERE IS NO APPARENT OIL LEAKS ON THE HYDRAULIC SYSTEM : HYDRAULIC LINES, CYLINDER AND POWER UNIT.

IN CASE OF NON-COMPLIANCE : REFER TO TROUBLESHOOTING – OIL LEAKAGE.

4. COMPONENT COMPLIANCE : VISUALLY ENSURE THAT LIFT COMPONENTS ARE NOT DEFORMED, CRACKED, DAMAGED OR WORN : FIXED COLUMNS, CARRIAGE, FORKS, FORK HOLDER, POWER UNIT, CYLINDER, HYDRAULIC LINE AND LOAD HOLDING DEVICE.

IN CASE OF NON-COMPLIANCE : REPLACE THE PART IMMEDIATELY OR CONTACT A LIFT PLANNED SERVICE PERSONNEL.

CAUTION

NEVER ATTEMPT TO STRAIGHTEN TO CORRECT ANY DEFECTIVE LIFT COMPONENTS, THIS ACTION COULD WEAKEN IT MORE.

5. BASE'S CLEANLINESS : ENSURE THAT CYLINDER BASE AND INSIDE OF COLUMN IS CLEAN AND LUBRICATED.

IN CASE OF NON-COMPLIANCE : REFER TO MAINTENANCE AND INSPECTION INSTRUCTIONS SECTION – LIFT CLEANING AND LIFT LUBRICATION.

NOTE : PROPER CLEANING AND LUBRICATION OF CYLINDER BASE AND COLUMN BASE PREVENTS CORROSION AND HELP OIL LEAKAGE DETECTION FROM CYLINDER.

MONTHLY MAINTENANCE

1. MECHANICAL COMPLIANCE OF ANCHORS : MANUALLY CHECK THE TIGHTENING OF THE ANCHOR NUTS ; IT SHOULD NOT BE POSSIBLE TO UNSCREW THEM.

IN CASE OF NON-COMPLIANCE : REAPPLY THE TIGHTENING TORQUE OF 100 POUND-FEET ON ALL 3/4" ANCHORS.

NOTE : IF ANCHORS MUST BE TIGHTENED MORE THAN ONCE BETWEEN THE ANNUAL INSPECTION, CONTACT THE MANUFACTURER.

DO NOT TIGHTEN ANCHORS USELESSLY.

2. STRUCTURAL AND WELDING COMPLIANCE : EXAMINE THE STRUCTURAL COMPONENTS AND WELDS OF THE LIFT FOR SIGNS OF WORN, DEFORMATION, CRACKING OR DAMAGE.

IN CASE OF NON-COMPLIANCE : IMMEDIATELY REPLACE THE PART OR CONTACT A PLANNED LIFT SERVICE PERSONNEL.

3. LIFTING FORKS DEFORMATION EVALUATION : VERIFY LIFTING FORK DEFORMATION. REFER TO ANNEX 3.

IN CASE OF NON-COMPLIANCE : IMMEDIATELY REPLACE THE PART OR CONTACT A LIFT PLANNED SERVICE PERSONNEL.

4. LABELS AND DOCUMENTATION COMPLIANCE : VERIFY THAT LABELS AND COVERS OR GUARDS ARE AFFIXED TO THE LIFT AND THE APPROPRIATE DOCUMENTS ARE IN THE WORK BAY. REFER TO ANNEX 1.

IN CASE OF NON-COMPLIANCE : OBTAIN THE MISSING ARTICLE BY CONTACTING THE MANUFACTURER.

NOTE: LABELS ON LIFT PROVIDE BASIC INFORMATION ONLY. THE SAFETY INSTRUCTIONS ARE MORE DETAILED IN THE INSTALLATION AND OPERATING INSTRUCTION MANUAL. REFER TO OPERATING INSTRUCTIONS SECTION – IMPORTANT SAFETY INSTRUCTIONS.

5. LUBRICATION : LUBRICATE LIFT. REFER TO MAINTENANCE AND INSPECTION INSTRUCTIONS SECTION– LIFT LUBRICATION.

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LIFT OPERATIONAL TEST

6. LOAD HOLDING DEVICES COMPLIANCE : VERIFY THE CONFORMITY OF THE ENGAGEMENT AND DISENGAGEMENT OF THE LOAD HOLDING DEVICES :

ENGAGEMENT :

- 6.1 ACTIVATE THE HYDRAULIC UNIT TO RAISE THE LIFTING FORKS APPROXIMATELY 8" ABOVE THE GROUND (A CLUNKING SOUND FROM THE RETRACTABLE LOAD HOLDER SHOULD BE HEARD).
- 6.2 PUSH DOWN PRESSURE RELEASE HANDLE TO LOWER THE LIFTING FORKS, SO AS TO REST THE STOP BLOCK OF THE CARRIAGE DIRECTLY ONTO THE RETRACTABLE LOAD HOLDER. MAKE SURE THAT THE STOP BLOCK OF THE CARRIAGE IS CORRECTLY IMMOBILIZED ON THE RETRACTABLE LOAD HOLDER. PULL THE BLACK HANDLE ON THE LOAD HOLDER :
 - IF THE RETRACTABLE LOAD HOLDER REMAINS IMMOBILIZED: THE STOP BLOCK IS LOCKED.
 - IF THE LOAD HOLDER DISENGAGES , REPEAT STEP 5.2.

DISENGAGEMENT :

- 5.3 ACTIVATE THE POWER UNIT TO RAISE THE LIFTING FORKS APPROXIMATELY 2" TO DISENGAGE THE STOP BLOCK FROM THE LOAD HOLDERS.
- 5.4 PULL ON THE BLACK HANDLE ON THE LOAD HOLDER AND THEN PUSH DOWN PRESSURE RELEASE HANDLE BY MAINTAINING BOTH IN THIS POSITION TO LOWER THE LIFTING FORKS TO THE GROUND.

IN CASE OF NON-COMPLIANCE : IMMEDIATELY REPLACE THE PART OR CONTACT A LIFT PLANNED SERVICE PERSONNEL.

7. COMPLETE CYCLE OF ELEVATION : DO A COMPLETE CYCLE OF ELEVATION. VERIFY THAT THE LIFT IS WORKING PROPERLY. IDENTIFY DEFORMITIES OR ABNORMAL NOISES.

IN CASE OF NON-COMPLIANCE : IMMEDIATELY REPLACE THE PART OR CONTACT A LIFT PLANNED SERVICE PERSONNEL.

ANNUAL INSPECTION

THE LIFT MUST BE INSPECTED ANNUALLY BY A TRAINED AND EXTERNAL LIFT INSPECTOR.

TROUBLESHOOTING

#	PROBLEMS	CAUSES	SOLUTIONS
1	POWER UNIT DOES NOT RUN	220 VOLTS AND 575 VOLTS	
		1. THE MOTOR IS NOT CONNECTED TO THE REQUIRED VOLTAGE (220 VOLTS OR 575 VOLTS).	1. HAVE A CERTIFIED ELECTRICIAN TO CONNECT THE POWER UNIT WITH REQUIRED VOLTAGE.
		2. THE MOTOR OF THE POWER UNIT IS NOT POWERED SUPPLY : 2.1 THE FUSE IS BURNED. 2.2 THE CIRCUIT BREAKER IS OPEN.	2.1 REMPLACE THE DEFECTIVE FUSE. 2.2 RESET THE CIRCUIT BREAKER ON THE MASTER COLUMN AND/OR OF THE ELECTRICAL PANEL.
		3. THE ON/OFF SWITCH IS DEFECTIVE.	3. HAVE A CERTIFIED ELECTRICIAN TO REPLACE THE ON/OFF SWITCH.
		4. DEFECTIVE MOTOR ON POWER UNIT.	4. HAVE A CERTIFIED ELECTRICIAN TO VALIDATE THE DEFECT.
		5. BROKEN OR DEFECTIVE MICROSWITCH.	5. REPLACE THE MICROSWITCH.
		6. THE MICROSWITCH IS MOVED FROM ITS BASE.	6. REPLACE THE MICROSWITCH IN ITS BASE.
		7. THE MOTOR DOES NOT STOP : 7.1 THE ON/OFF SWITCH IS DEFECTIVE	IMMEDIATELY TURN OFF THE CIRCUIT BREAKER : 7.1 REPLACE DEFECTIVE SWITCH.
		220 VOLTS	
		7.2 THE RELAY OF THE SWITCH IS DEFECTIVE.	IMMEDIATELY TURN OFF THE CIRCUIT BREAKER : 7.2 REPLACE DEFECTIVE SWITCH.
		8. THE CIRCUIT BREAKER IS OFF.	8. TURN ON THE CIRCUIT BREAKER.
2	POWER UNIT RUNS BUT THE LIFT DOES NOT RAISE	1. THE 3 PHASE MOTOR OF THE POWER UNIT DOES NOT ROTATE IN RIGHT DIRECTION (575 VOLTS).	1. HAVE A CERTIFIED ELECTRICIAN TO VALIDATE THE DEFECT.
		2. THE LEVELLING VALVE AND/OR CHECK VALVE ARE NOT CLOSED PROPERLY.	2.1 CLEAN RELEASE VALVE AND/OR CHECK VALVE. IF THE PROBLEM PERSISTS ; 2.2 REPLACE DEFECTIVE RELEASE VALVE AND/OR CHECK VALVE.
		3. THE LIFTING LOAD IS TOO HIGH.	3.1 VERIFY THE TOTAL LOAD OF THE VEHICLE. 3.2 REDUCE VEHICLE WEIGHT (TOOLBOX, LOAD, ETC.) TO RESPECT THE LOAD RATE.
		4. THE MOTOR RUNS CORRECTLY, BUT THE PUMP SEEMS TO BE DRAWING AIR.	4.1 VERIFY THE OIL LEVEL IN THE TANK WHEN THE SWING ARMS ARE ON THE GROUND. ADD OIL AS NEEDED (1" FROM THE AERATOR PLUG). IF THE PROBLEM PERSISTS ; 4.2 REPLACE THE DEFECTIVE POWER UNIT.
3	VEHICLE IS NOT AT LEVEL ON LIFTING FORKS	1. LIFTING FORKS ARE DEFORMED.	1. REFER TO ANNEX 3.– ACCEPTABLE LIFTING FORK DEFORMATION
4	THE LIFT GOES DOWN WITHOUT TOUCHING CONTROLS	1. THE RELEASE VALVE AND/OR CHECK VALVE ARE NOT SEALED.	1.1 CLEAN RELEASE VALVE AND/OR CHECK VALVE. IF THE PROBLEM PERSISTS ; 1.2 REPLACE DEFECTIVE RELEASE VALVE AND/OR CHECK VALVE.
5	OIL LEAKAGE*	1. CYLINDER	1. CONTACT LIFT MANUFACTURER.
		2. HYDRAULIC FITTINGS	2.1 TIGHTEN THE LEAKING FITTING OF THE HYDRAULIC SYSTEM. IF THE PROBLEM PERSISTS ; 2.2 REPLACE LEAKING FITTING.
		*NOTE : FOLLOWING AN OIL LEAK, VERIFY THE OIL LEVEL IN THE TANK WHEN THE SWING ARMS ARE ON THE GROUND. ADD OIL AS NEEDED (1" FROM THE AERATOR PLUG).	

#	PROBLEMS	CAUSES	SOLUTIONS
6	THE LIFT CANNOT RAISE RATED LOAD	1. THE RELEASE VALVE AND/OR CHECK VALVE ARE NOT CLOSED PROPERLY.	1.1 CLEAN RELEASE VALVE AND/OR CHECK VALVE. IF THE PROBLEM PERSISTS ; 1.2 REPLACE DEFECTIVE RELEASE VALVE AND/OR CHECK VALVE.
		2. THE VEHICLE CENTER OF GRAVITY IS NOT CENTRED	2. MOVE THE VEHICLE TO THE GROUND AND RECENTER THE CENTER OF GRAVITY.
		3. PRESENCE OF A LUBRICANT OTHER THAN TEFLON-BASED DRY LUBRICANT (E.G. GREASE) IN THE INSIDE CORNERS OF COLUMNS.	3.1 CLEAN THE INSIDE SURFACES OF THE COLUMNS WITH A DEGREASER. 3.2 REFER TO LIFT CLEANING – MAINTENANCE AND INSPECTION INSTRUCTIONS SECTION.
7	THE LOAD HOLDER DO NOT WORK AT THE DESCENT	1. THE LOAD HOLDERS DO NOT MOVE FREELY.	1.1 ACTIVATE THE POWER UNIT TO RISE THE LIFT OF 1" TO DISENGAGE THE STOPS BLOCKS FROM THE LOAD HOLDERS. 1.2 MANUALLY VERIFY THE MOVEMENT OF THE LOAD HOLDERS. 1.3 CLEAN OR RELEASE THE LOAD HOLDER. 1.4 REPLACE DEFECTIVE LOAD HOLDER.
8	THE LIFT IS INOPERATIVE IN RAISE POSITION	1. REFER TO PROBLEMS 1-7 OF THIS DOCUMENT	1. IF THE PROBLEM PERSISTS AND CANNOT BE RELATED TO ANY OF THE PROBLEMS 1 TO 7 OF THIS DOCUMENT, CONTACT THE LIFT MANUFACTURER OR A TRAINED LIFT SERVICE PERSONNEL.
		2. LOW OIL LEVEL IN THE TANK.	2. ADD OIL TO THE TANK (1" FROM THE AERATOR PLUG).
		3. THE LIFT INSTALLATION IS NOT ADEQUATE	3. CONTACT THE LIFT INSTALLER OR THE LIFT MANUFACTURER.

LOCKOUT/TAGOUT

REFER TO ANSI Z244.1

PURPOSE

THIS PROCEDURE ESTABLISHES THE MINIMUM REQUIREMENTS FOR THE LOCKOUT OF THE ENERGY THAT COULD CAUSE INJURY TO PERSONNEL BY THE OPERATION OF LIFTS IN NEED OR BEING SERVICED. ALL EMPLOYEES SHALL COMPLY WITH THIS PROCEDURE.

RESPONSIBILITY

THE RESPONSIBILITY FOR ASSURING THAT THIS PROCEDURE IS FOLLOWED IS BINDING UPON ALL EMPLOYEES AND SERVICE PERSONNEL FROM OUTSIDE SERVICE COMPANIES (I.E., AUTHORIZED LIFT INSTALLERS, CONTRACTORS, ETC.). ALL EMPLOYEES SHALL BE INSTRUCTED IN THE SAFETY SIGNIFICANCE OF THE LOCKOUT PROCEDURE BY THE FACILITY OWNER/MANAGER. EACH NEW OR TRANSFERRED EMPLOYEE ALONG WITH VISITING OUTSIDE SERVICE PERSONNEL SHALL BE INSTRUCTED BY THE OWNER/MANAGER (OR ASSIGNED DESIGNEE) IN THE PURPOSE AND USE OF THE LOCKOUT PROCEDURE.

PREPARATION

EMPLOYEES AUTHORIZED TO PERFORM LOCKOUT SHALL ENSURE THAT THE APPROPRIATE ENERGY ISOLATING DEVICE (I.E., CIRCUIT BREAKER, FUSE, DISCONNECT, ETC.) IS IDENTIFIED FOR THE LIFT BEING LOCKED OUT. OTHER SUCH DEVICES FOR OTHER EQUIPMENT MAY BE LOCATED IN CLOSE PROXIMITY OF THE APPROPRIATE ENERGY ISOLATION DEVICE. IF THE IDENTITY OF THE DEVICE IS IN QUESTION, SEE THE SHOP SUPERVISOR FOR RESOLUTION. ASSURE THAT PROPER AUTHORIZATION IS RECEIVED PRIOR TO PERFORMING THE LOCKOUT PROCEDURE.

SEQUENCE OF LOCKOUT PROCEDURE :

- 1) NOTIFY ALL AFFECTED EMPLOYEES THAT A LOCKOUT IS BEING PERFORMED AND THE REASON FOR IT.
- 2) UNLOAD THE SUBJECT LIFT. SHUT IT DOWN AND ASSURE THE DISCONNECT SWITCH IS "OFF" IF ONE IS PROVIDED ON THE LIFT.
- 3) THE AUTHORIZED LOCKOUT PERSON OPERATES THE MAIN ENERGY ISOLATION DEVICE REMOVING POWER TO THE SUBJECT LIFT.
 - 3.1 IF THIS IS A LOCKABLE DEVICE, THE AUTHORIZED LOCKOUT PERSON PLACES THE ASSIGNED PADLOCK ON THE DEVICE TO PREVENT ITS UNINTENTIONAL REACTIVATION. AN APPROPRIATE TAG IS APPLIED STATING THE PERSON'S NAME, AT LEAST 3" X 6" IN SIZE, AN EASILY NOTICEABLE COLOR, AND STATES NOT TO OPERATE DEVICE OR REMOVE TAG.
 - 3.2 IF THIS DEVICE IS A NON-LOCKABLE CIRCUIT BREAKER OR FUSE, REPLACE WITH A "DUMMY" DEVICE AND TAG IT APPROPRIATELY AS MENTIONED ABOVE.
- 4) ATTEMPT TO OPERATE LIFT TO ASSURE THE LOCKOUT IS WORKING. BE SURE TO RETURN ANY SWITCHES TO THE "OFF" POSITION.
NOTE : DO NOT FORGET TO PUT THE SWITCHES BACK IN "OFF" POSITION.
- 5) THE EQUIPMENT IS NOW LOCKED OUT AND READY FOR THE REQUIRED MAINTENANCE OR SERVICE.

RESTORING EQUIPMENT TO SERVICE

- 1) ASSURE THE WORK ON THE LIFT IS COMPLETE AND THE AREA IS CLEAR OF TOOLS, VEHICLES, AND PERSONNEL.
- 2) AT THIS POINT, THE AUTHORIZED PERSON CAN REMOVE THE LOCK (OR DUMMY CIRCUIT BREAKER OR FUSE) & TAG AND ACTIVATE THE ENERGY ISOLATING DEVICE SO THAT THE LIFT MAY AGAIN BE PLACED INTO OPERATION.

RULES FOR USING LOCKOUT PROCEDURE

USE THE LOCKOUT PROCEDURE WHENEVER THE LIFT IS BEING REPAIRED OR SERVICED, WAITING FOR REPAIR WHEN CURRENT OPERATION COULD CAUSE POSSIBLE INJURY TO PERSONNEL, OR FOR ANY OTHER SITUATION WHEN UNINTENTIONAL OPERATION COULD INJURE PERSONNEL. NO ATTEMPT SHALL BE MADE TO OPERATE THE LIFT WHEN THE ENERGY ISOLATING DEVICE IS LOCKED OUT.

WARRANTY POLICY

THE WARRANTY IS EXCLUSIVE TO THE ORIGINAL OWNER OF THE GIROLIFT AND IS NON-TRANSFERABLE. THIS WARRANTY IS VALID ONLY IF THE PRODUCT IS INSTALLED, OPERATED AND MAINTAINED TO THE INSTALLATION & OPERATING INSTRUCTIONS MANUAL AND ANSI/ALI ALOIM – « SAFETY REQUIREMENTS FOR OPERATION, INSPECTION AND MAINTENANCE » (LATEST VERSION). CANADA HYDRAULIQUE EQUIPEMENT INC RESERVES THE RIGHT TO DISCLAIM ANY RESPONSIBILITY FOR THE INSTALLATION OR REPAIRS THAT HAVE BEEN ATTEMPTED OR PERFORMED BY OTHERS. ANY MODIFICATION WITHOUT THE WRITTEN CONSENT OF CANADA HYDRAULIQUE EQUIPEMENT INC, MISUSE, DAMAGE, NEGLIGENCE OR IMPROPER USE COMPLETELY VOIDS THE WARRANTY.

THIS WARRANTY DOES NOT COVER NORMAL MAINTENANCE AND ADJUSTMENTS, NORMAL WEAR AND TEAR, LOSS OF PROFIT, LABOR AND TRANSPORTATION TIME FOR REPAIRS.

		WARRANTY DURATION <i>FROM INVOICE DATE</i>	LABOR <i>FOR THE REPARATION</i>
SOLD WITH A GIROLIFT™	STRUCTURAL COMPONENT IF INSTALLED BY AN AIG	20 YEARS	1 YEAR
	STRUCTURAL COMPONENT	5 YEARS	
	FUNCTIONAL PART IF INSTALLED BY AN AIG	2 YEARS	
	FUNCTIONAL PART	1 YEAR	
	POWER UNIT		
	GIROLIFT™ BRAND ACCESSORY/ATTACHMENT		
	NON GIROLIFT™ BRAND ACCESSORY/ATTACHMENT	MANUFACTURER'S WARRANTY	90 DAYS
SOLD WITHOUT A GIROLIFT™	REPLACEMENT PART	90 JOURS	N/A
	NON GIROLIFT™ BRAND ACCESSORY/ATTACHMENT	GARANTIE DU MANUFACTURIER	
	GIROLIFT™ BRAND ACCESSORY/ATTACHMENT	1 AN	

NOTE : STRUCTURAL COMPONENT (CARRIAGE, FIXED POST, SWING ARM, RAMP), FUNCTIONAL PART (HOSE, PIPE, ADAPTER, SEAL, FITTING, VALVE, CYLINDER, SWING ARM RESTRAINT), ACCESSORY/ATTACHMENT (JIB CRANE, FORK LIFT ADAPTERS, ROLLING JACK, STRUCTURE, ETC.), REPLACEMENT PART (POWER UNIT, PNEUMATIC-HYDRAULIC PUMP, HOSE, PIPE, ADAPTER, SEAL, FITTING, ADAPTERS, SWING ARM RESTRAINT, ETC.)

THE MODEL AND SERIAL NUMBER OF THE LIFT MUST BE PROVIDED WITH ANY CLAIM. IN CASE OF A POWER UNIT PROBLEM, THE MODEL AND SERIAL NUMBER OF THE POWER UNIT MUST BE ALSO PROVIDED.

TRAVEL FOR WARRANTY REPAIR IS INCLUDED WITHIN RADIUS OF 100 KM FROM GIROLIFT PLANT. A PREDETERMINED RATE FOR ANY ADDITIONAL KM TRAVELED AND PRE-APPROVED WILL BE CHARGE TO THE CUSTOMER. ADDITIONAL CHARGES WILL APPLY FOR ANY REPAIRS MADE BY OUR TECHNICIAN THAT DO NOT RELATE TO THE WARRANTY ISSUE.

REPLACEMENT PART:

ALL CARRIER CHARGES ARE THE RESPONSIBILITY OF THE CUSTOMER, BOTH SHIPPING AND RETURN OF THE PART TO GIROLIFT FACILITY. DEFECTIVE PART MUST FIRST BE SHIPPED WITH AN RMA NUMBER TO OUR FACTORY FOR EXPERT EXAMINATION BY A GIROLIFT TECHNICIAN. ONCE THE DEFECT DIAGNOSTIC IS CONFIRMED, THE REPAIRED PART OR REPLACEMENT PART WILL BE SHIPPED TO THE CUSTOMER. IF THE WAITING PERIOD DOES NOT PERMIT, THE REPLACEMENT PART WILL BE INVOICED AND PAID BEFORE BEING SHIPPED. A CREDIT WILL THEN BE ISSUED ON THE PART ONCE THE DEFECTIVE PART RETURNED TO OUR FACTORY AND IF THE PART INSPECTION IS PROVEN TO BE DEFECTIVE; THIS WARRANTY DOES NOT COVER NON DEFECTIVE PART OR MISDIAGNOSIS.

TO APPLY THE WARRANTY, THE INSTALLATION REPORT MUST BE SENT WITHIN 30 DAYS AFTER THE INSTALLATION OF THE GIROLIFT².

THE CURRENT WARRANTY PREDOMINATES OVER ALL DOCUMENTATION OR WARRANTY POLICY ISSUED PREVIOUSLY.

THE WARRANTY POLICY IS APPLICABLE ONLY IF THE NECESSARY REPAIRS, DAILY AND MONTHLY MAINTENANCE AND ANNUAL INSPECTION HAVE BEEN MADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF CANADA HYDRAULIQUE EQUIPEMENT INC AND ANSI/ALI ALOIM. SUPPORTING EVIDENCE MAY BE REQUESTED.

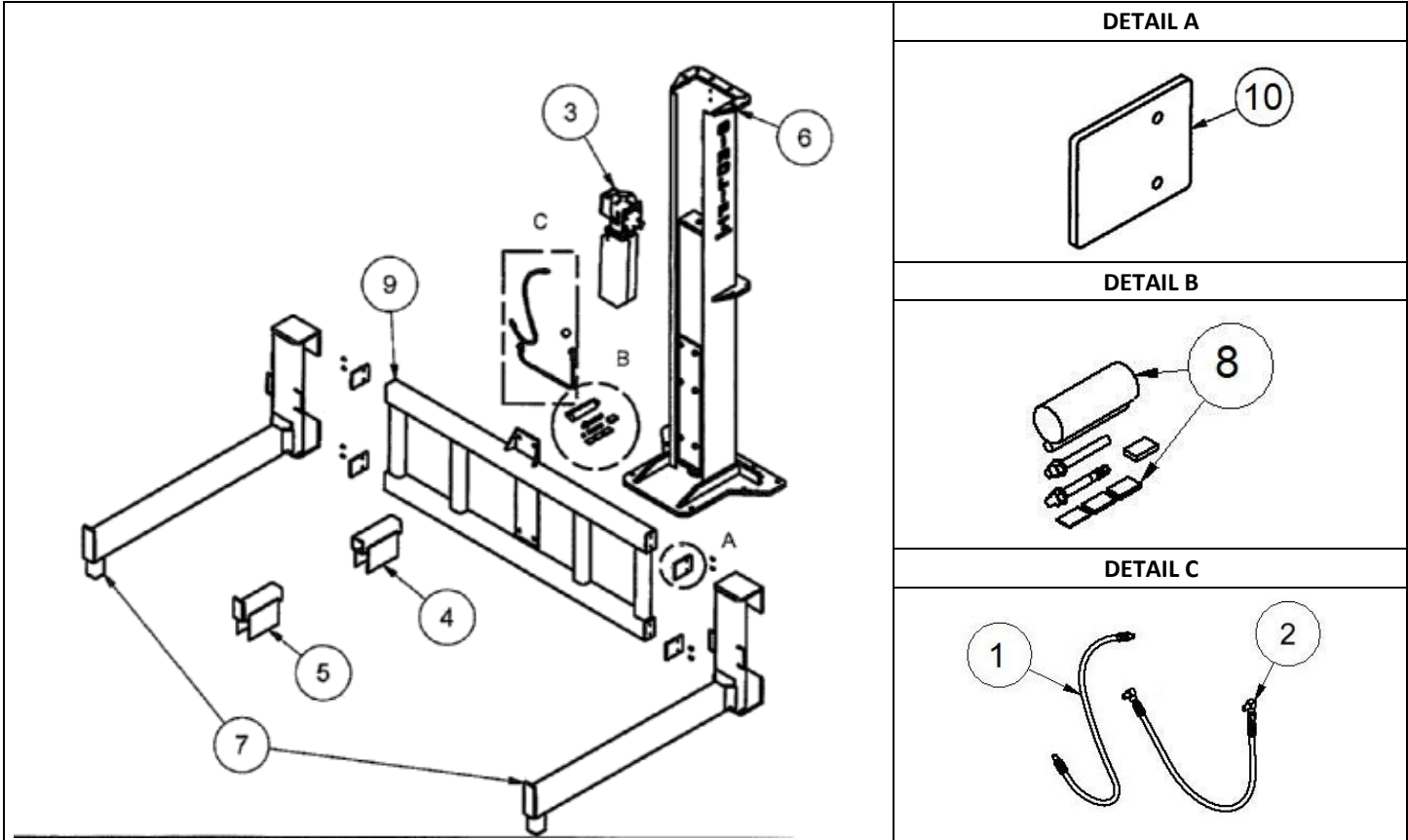
CANADA HYDRAULIQUE EQUIPEMENT INC'S DECISION REPRESENTS THE FINAL AUTHORITY RESERVES THE RIGHT TO CANCEL THE GIROLIFT OWNER'S WARRANTY IF THE CONDITIONS ARE NOT MET.

REVISION: DECEMBER 2025

² STANDARD FOR AUTOMOTIVE LIFTS – SAFETY REQUIREMENTS FOR INSTALLATION AND SERVICE (R2015), APPENDIX B : INSTALLATION REPORT.

MAN-10-LF1-F72-C01-E

10-LF1-F72-C01 GIROLIFT



#	DESCRIPTION	PART #	#	DESCRIPTION	PART #
1	ASSEMBLED Ø1/4" X 38" LG HOSE	BH04-2SC-A038-04M-04M	6	ASSEMBLED COLUMN	10-LF1-CO-A01-C01
2	ASSEMBLED Ø1/4" X 38" LG HOSE WITH ELBOWS 1/4	BUH-04-38-A01-01	7	FORK 13-3/8" X 37" X 81-1/4" LG – 5000 LB CAPACITY	10-LF1-FRC-S01-04P
3	POWER UNIT ASSEMBLED	220 V (2 HP) 10-LF1-00-13_0-R04	8	10LF1-KA-A01-01	10LF1-KA-A01-01
		220 V (5 HP) 10-LF1-00-13_0-R04-5			
		575 V 10-LF1-00-13_1-S04			
4	LIFTING BLOCK 4" X 14" LG	10-LF1-BDL04-S01-01P	9	FORK HOLDER 4-7/8" X 40" X 96-1/2" LG	10-LF1-TAF-S01-04P
5	LIFTING BLOCK WITH STOPPER 4" X 14" LG	10-LF1-BDL04-S01-02P	10	3/8" X 5" X 6" LG PLATE	10-LF1-STP-C52-01P

MORE

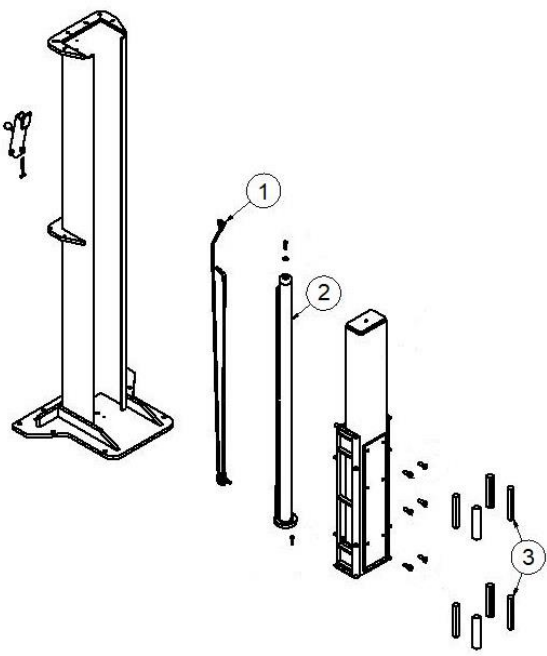
IMAGE	DESCRIPTION	PART #
	FORK GAUGE	10-GLF-S01-01P

LOAD HOLDER

#	DESCRIPTION	PART #
1	PLASTIC BLACK HANDLE 1-7/8" DIA X 5/8"	0610-CL-882-PB

FIXE COLUMN

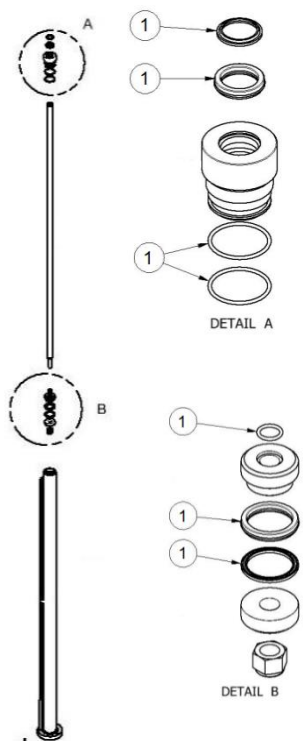
#	DESCRIPTION	PART #
1	HYDRAULIC LINE	10-LF1-CH-DF067-A08-01
2	ASSEMBLED CYLINDER	10-CY1-A01-01P
3	UHMW 1-1/2" x 1-1/2" x 9-7/8" LG MACHINED BLOCK	BU61-01500-01500-009875-U02



ASSEMBLED COLUMN

CYLINDER

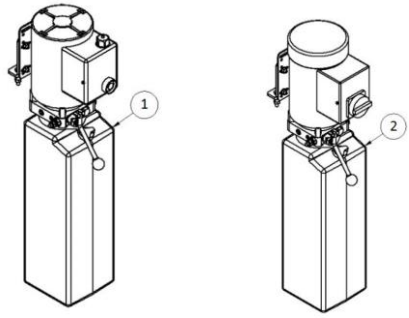
#	DESCRIPTION	PART #
1	MASTER CYLINDER SEAL KIT	SKC-10-CY1-A01

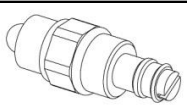
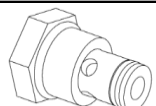


ASSEMBLED CYLINDER

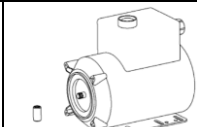
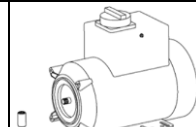
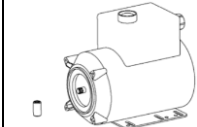
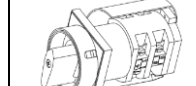
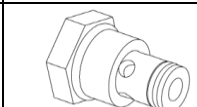
POWER UNIT

#	DESCRIPTION	PART #
1	220 VOLTS ASSEMBLED POWER UNIT – R (2 HP)	10-LF1-00-13_0-R04
2	220 VOLTS ASSEMBLED POWER UNIT – R (5 HP)	10-LF1-00-13_0-R04-5
	575 VOLTS ASSEMBLED POWER UNIT– S	10-LF1-00-13_1-S04



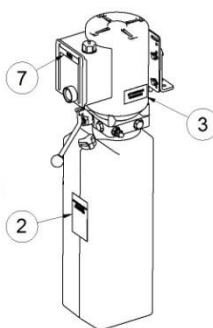
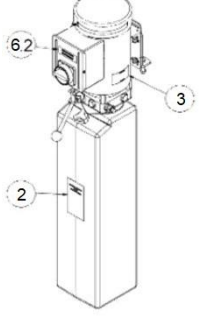
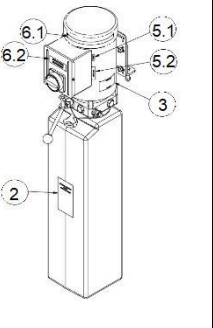
#	IMAGE	DESCRIPTION	PART #	#	IMAGE	DESCRIPTION	PART #
POWER UNITS – S							
1		MANUAL RELEASE VALVE	0243-VF-9021	3		CHECK VALVE	0243-DCV-080-PB-N-5
2		PRESSURE RELEASE HANDLE WITH BLACK BALL	0243-2565-AA	4		STARRY COUPLING 1.26" LG SAE 9T-20/40	0243-1118-AA-V

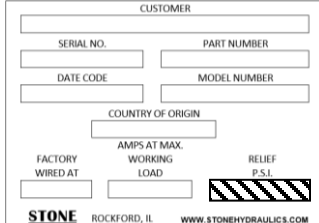
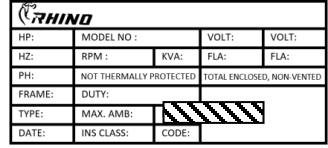
MAN-10-LF1-F72-C01-E

#	IMAGE	DESCRIPTION	PART #	#	IMAGE	DESCRIPTION	PART #
POWER UNITS 220 VOLTS – R				POWER UNITS 575 VOLTS – S			
1		ELECTRIC MOTOR FOR POWER UNIT WITH SWITCH 220/1/60 (2 HP)	MUH-220-1-60-R	1		ELECTRIC MOTOR FOR POWER UNIT WITH SWITCH 575/3/60	MUH-575-3-60
		ELECTRIC MOTOR FOR POWER UNIT WITH SWITCH 220/1/60 (5 HP)	MUH-220-1-60-R5	2		DRUM SWITCH WITH COVER 25A 575/3/60	0243-W-138
2		PRESSURE RELEASE HANDLE WITH MANUAL RELEASE VALVE	0243-WX2-01-4010	3		DRUM SWITCH 25A 15HP @ 600 VAC 575/3/60	0243-7GN2503U25
3		CHECK VALVE	0243-WG-05-1001				

LABEL

#	DESCRIPTION	PART #
2	RISK OF EXPLOSION/SHOCK LABEL 2-3/4"LG X 4-1/2"HI	0907-CHE-WL-REC
3	BREAKING SEAL LABEL 2-7/8"LG X 1-1/2"HI	0907-CHE-WL-SEAL
5.1	4 A LABEL 15/16"LG X 5/16"HA	0907-CHE-I-4A
5.2	DUTY CYCLE 575 VOLTS LABEL 1-1/2"LG X 1/2"HI	0907-CHE-G-DC575
6.1	575 VOLTS POWER UNIT ROTATION DIRECTION LABEL 4-3/4" LG X 1/2 " HI	0907-CHE-I-ROTATION
6.2	DIRECTION OF MOVEMENT - TURN LABEL 3"LG X 1"HI	0907-CHE-I-MOV-T
7	DIRECTION OF MOVEMENT 220 VOLTS LABEL 3-1/2"LG X 5/8"HI	0907-CHE-I-MOV220
8	3100 PSI LABEL 3/4"LG X 3/8"HA NOTE: AFFIX THE LABEL AT THE LOCATION INDICATED IN HATCHED ON POWER UNIT LABEL ACCORDING TO THE POWER UNIT MODEL.	0907-CHE-G-PSI-3100

220 VOLTS – R (2 HP) 	220 VOLTS – R (5 HP) 	575 VOLTS – S 
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POWER UNIT MODEL S 	POWER UNIT MODEL R (2 HP) 
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MAN-10-LF1-F72-C01-E

IMAGE	#	DESCRIPTION	PART #
	9	GRAVITY CENTER LABEL 5"LG X 5"HI	0907-CHE-G-CG
	10	GIROLIFT USE LABEL 6-1/4"LG X 4"HI	0907-CHE-I-UTG
	11	ALI LABEL - GOLD LABEL 3-1/4" X 3"	0907-ALI-GOLD-LABEL
	12	NAME PLATE LABEL 2-7/8"LG X 2-1/2"HI	0907-CHE-G-PSG
	13	ALI – NOTICE 4" LG X 5-3/4" HI LABEL	0907-ALI-WL600-NOTICE
	14	ALI – AVIS 4" LG X 5-3/4" HI LABEL	0907-ALI-WL600F-AVIS
	15	ALI – NOTICE 3"LG X 2-3/4"HI LABEL	0907-ALI-WLSIA01-NOTICE
	16	ALI – AVIS 3"LG X 2-3/4"HI LABEL	0907-ALI-WLSIA01F-AVIS
	17	VERTICAL GIROLIFT LABEL 4-1/8"LG X 34-3/4"HI	0907-CHE-G-GVW
	18	10-LF1 LABEL 8"LG X 1-1/2"HI	0907-CHE-G-10LF1W
	19	ALI – CAUTION 4"LG X 10"HI LABEL	0907-ALI-WL600-CAUTION
	20	ALI – MISE EN GARDE 4"LG X 10"HI LABEL	0907-ALI-WL600F-MG
	21	ALI – WARNING 4"LG X 10"HI LABEL	0907-ALI-WL600-WARNING
	22	BLACK HANDLE LABEL 2-1/4"LG X 1"HA	0907-CHE-G-PN
	23	ALI – ATTENTION 4"LG X 10"HI LABEL	0907-ALI-WL600F-ATTENTION
	24	ALI MEMBER LABEL 1-1/4 X 3" LG	0907-ALI-MEMBER

* **NOTE:** LABELS # 17 AND # 18 ARE FOUND ON THE 2 FACADES OF EACH OF THE MASTER AND SLAVE COLUMNS.

ANNEX 1

SAFETY SUPPLY

LIFT SAFETY LABELS

1. ALI/WL600 SECURITY LABELS:
 - CAUTION LABEL,
 - WARNING LABEL,
 - NOTICE LABEL.
2. ALI/WLSIA01 NOTICE LABEL.
3. NAME PLATE ON MASTER POST (WITH POWER UNIT). SEE **FIGURE 1**.
4. POWER UNIT IDENTIFICATION LABEL. SEE **FIGURE 2**.
5. CAUTION LABEL ON POWER UNIT. SEE **FIGURE 19**.
6. ALI SERIAL NUMBER LABEL.

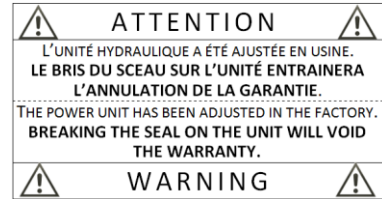


FIGURE 19 : CAUTION LABEL SAFETY SEAL

IMPORTANT

ALL LABELS #1 TO #24 FROM SECTION PART LIST – LABEL ARE REQUIRED.
NOTE : REFER TO POWER UNIT MODEL FOR REQUIRED POWER UNIT LABELS.

DOCUMENTS IN WORK BAY AREA

1. INSTALLATION AND OPERATION INSTRUCTIONS MANUAL OF LIFT MANUFACTURING.
2. "SAFETY TIPS" CARD: ANSI ALI-ST-17.
3. "LIFTING IT RIGHT" MANUAL : ANSI ALI/SM.
4. "STANDARD FOR AUTOMOTIVE LIFTS – SAFETY STANDARD FOR OPERATION, INSPECTION AND MAINTENANCE" MANUAL: ANSI/ALI ALOIM.

PROTECTION

1. SAFETY SEAL ON PRESSURE REGULATOR CAP. SEE **FIGURE 20**.

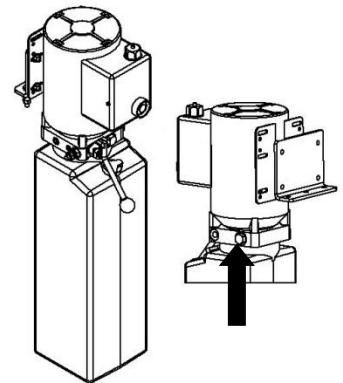


FIGURE 20 : SAFETY SEAL

ANNEX 2

USER MAINTENANCE FORM FOR 1 POST LIFT^{3*}

MODEL : _____

SERIAL NUMBER : _____

INSTRUCTIONS

1. NOTE DOWN THE MODEL, THE SERIAL NUMBER AND THE MONTH OF THE INSPECTION PERIOD.
2. DAILY MAINTENANCE : NOTE "C" (COMPLY), "NC" (NOT COMPLIANT) OR "NI" (NOT INSPECTED) AND INITIALIZE IN APPROPRIATE BOXES OF THE DAY INSPECTED.
3. IF IT IS NOT COMPLIANT OR ANY INTERVENTION HAS BEEN MADE, IDENTIFY IN THE NOTE SECTION THE ACTION TAKEN AND THE DATE.
4. DO MONTHLY MAINTENANCE THE LAST DAY OF THE MONTH INSPECTED.

#	DAILY MAINTENANCE DAY	MONTH : _____																														
		C / NC / NI																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	VISUAL COMPLIANCE OF ANCHORS																															
2	VISUAL FLOOR COMPLIANCE																															
3	VISUAL COMPLIANCE OF THE HYDRAULIC SYSTEM																															
4	COMPONENT COMPLIANCE																															
5	BASE'S CLEANLINESS																															
INITIAL																																

#	MONTHLY MAINTENANCE	COMPLIANT	TO IMPROVE	REPAIR NEEDED	COMMENTS
1	MECHANICAL COMPLIANCE OF ANCHORS				
2	STRUCTURAL AND WELDING COMPLIANCE				
3	LIFTING FORKS DEFORMATION EVALUATION				
4	LABELS AND DOCUMENTATION COMPLIANCE				
5	LUBRICATION				
LIFT OPERATIONAL TEST					
6	LOAD HOLDING DEVICES COMPLIANCE				
7	COMPLETE CYCLE OF ELEVATION				

MAINTENANCE DONE BY _____ (SIGNATURE) DATE _____

DATE	NOTE	DATE	NOTE

CANADA HYDRAULIC EQUIPMENT INC. RECOMMENDS INSPECTING THE GIROLIFT ANNUALLY BY A TRAINED AUTOMOTIVE LIFT INSPECTOR.

*REFER TO INSTALLATION & OPERATING INSTRUCTION MANUAL SECTION MAINTENANCE AND INSPECTION INSTRUCTIONS FOR MORE DETAILS.

³ USER MAINTENANCE FORM FOR 1 POST LIFT AVAILABLE BY CONTACTING THE MANUFACTURER.

ANNEX 3

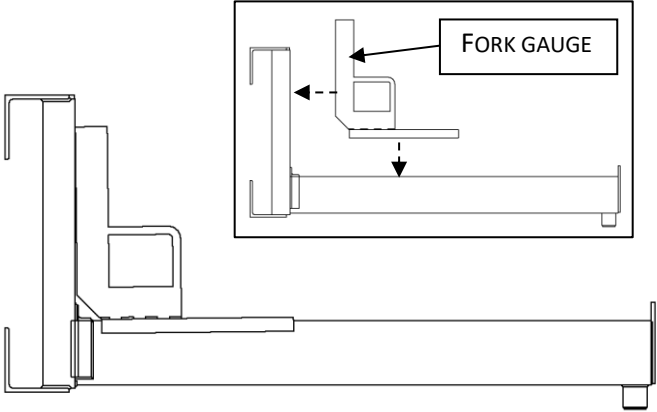
ACCEPTABLE LIFTING FORKS DEFORMATION

⚠️

IMPORTANT

THE LIFTING FORK MUST BE REPLACED ENTIRELY FOR ANY MEASUREMENT NOT COMPLIANT BELOW.

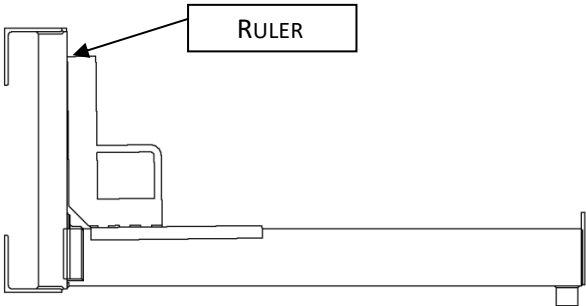
STEP 1



1. INSTALL THE FORK GAUGE ON THE FORK AND PRESS IT AGAINST BOTH SIDE OF THE FORK.

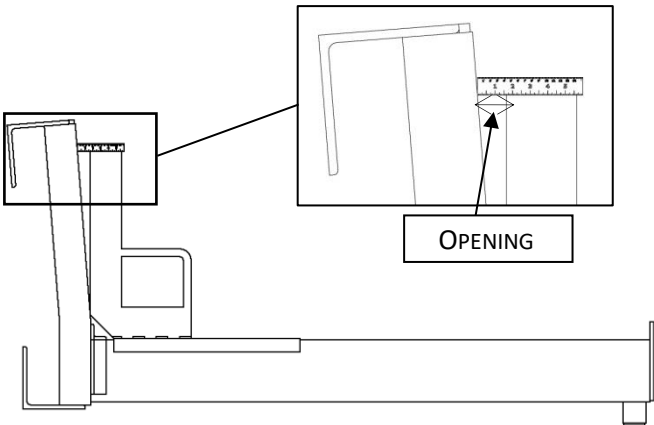
STEP 2

STEP 2.1 – FORK WITH NO DEFORMATION



1. CHECK OPENING AT TOP OF FORK GAUGE WITH A RULER : THE TOP GAUGE MUST PRESS AGAINST THE FORK.

STEP 2.2 – DEFORMED FORK



1. WITH A RULER, MEASURE THE OPENING BETWEEN THE FORK AND THE TOP GAUGE.

OPENING	ACTION
<5/8"	1. FOLLOW DEFORMATION EVOLUTION. 2. REAJUST COLUMN’S INCLINE. ADD 2 SHIMS 1/8" AT POSITION 1 AND 8. SEE STEP 1 – COLUMN LEVELING OF INSTALLATION INSTRUCTIONS SECTION.
≥ 5/8"	REPLACE DEFORMED FORK.

STEP 3

1. RESUME STEPS 1 AND 2 ONTO REMAINING FORK.

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REVISION: 2026-03-03