



World Leader in Lift Productivity

# SPOA30/SPOA40/SPO40 E, M, And *i* Series

## Two Post Surface Mounted Lifts

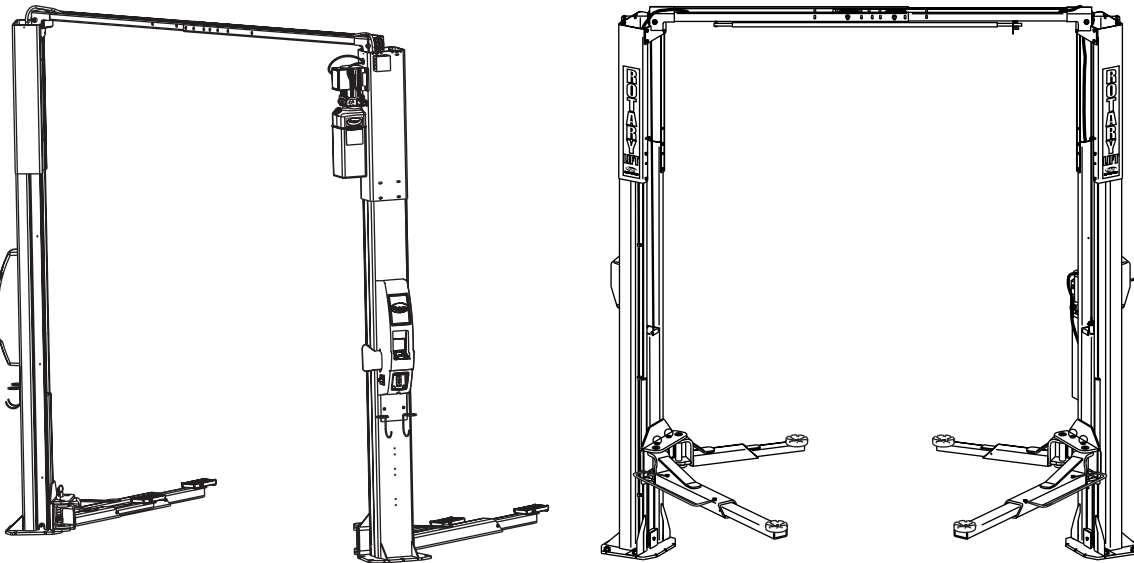
SPOA30M, SPOA30E, And SPOA30i Series Capacity: 3,100kg (775 kg per arm)

SPOA40M, SPOA40E, And SPO40i Series Capacity: 4,000kg (1,000kg per arm)

SPO40M, SPO40E, And SPO40i Series Capacity: 4,000kg (1,000kg per arm)



TÜV  
Rheinland



### Table of Contents

LIFT CONTROLS .....	3
OPERATING INSTRUCTIONS .....	5
RESIDUAL RISKS .....	7
MAINTENANCE INSTRUCTIONS .....	8

**INSTALLER:** Please return this booklet to literature package and give to lift owner/operator.

**LP20077 & LP20079**

Only those technicians who have been properly trained in the usage and care of the lift should be allowed to operate the lift.

Local regulations **MAY** require that the trained operator be at least 18 years of age or be supervised by a trained operator while:

- A. Positioning the vehicle in the service bay
- B. Positioning the lift adapters at the vehicle manufacturer's recommended lift points
- C. Actuating the lift controls

*Display this manual in a conspicuous location in the lift area convenient to the operator.*

**The lift is to be used for raising unoccupied motor vehicles ONLY!**

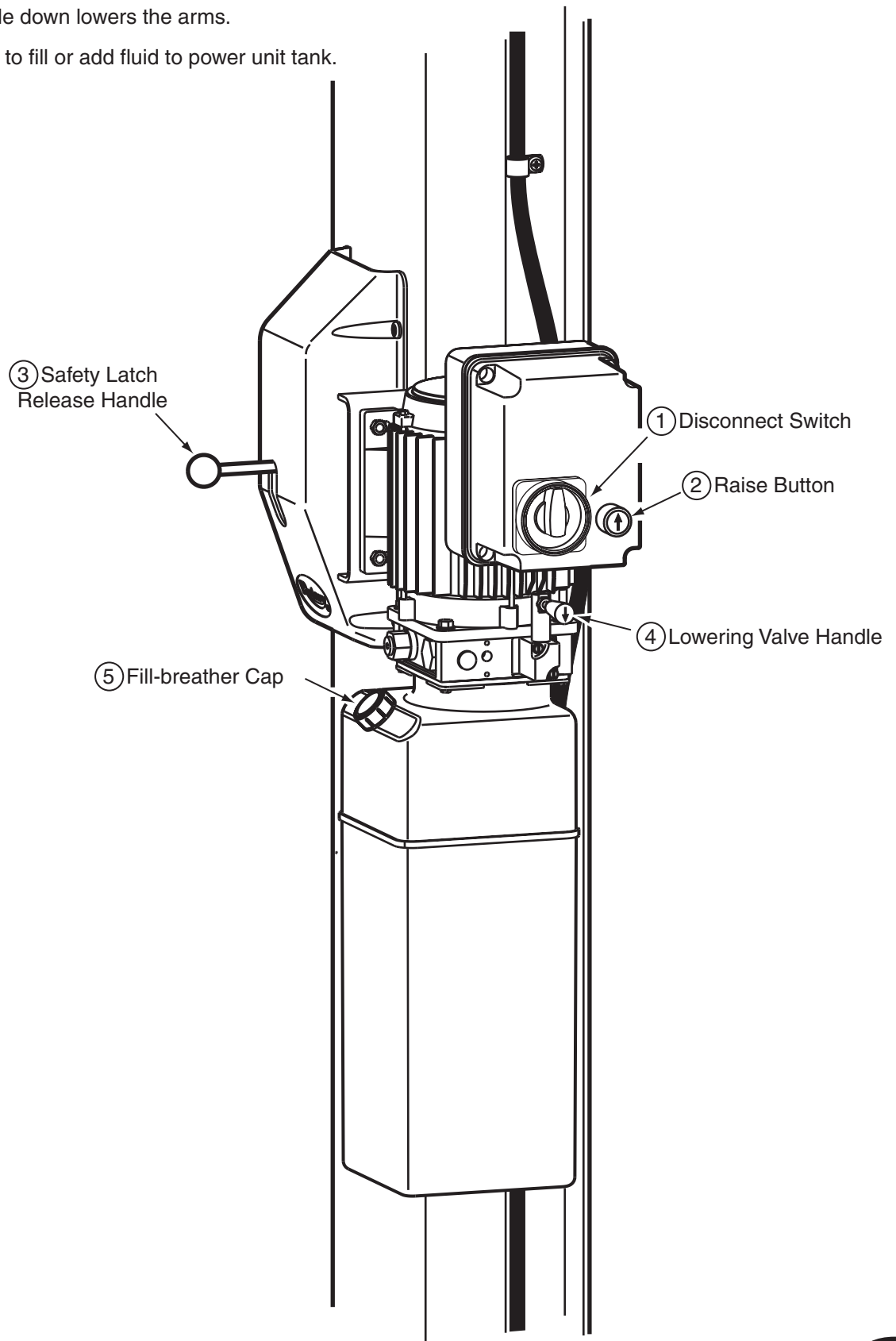
ALWAYS lift the vehicle using all four (4) adapters.  
NEVER raise just one end, one corner, or one side of the vehicle.

ONLY lift vehicles which have an individual axle weight that does not exceed one-half the lift capacity. See load capacity table below.

<b>MODEL</b>	<b>LOAD CAPACITY</b>
SPOA30E SPOA30M SPOA30i Series Lifts	<b>3100kg</b>
SPOA40E SPOA40M SPOA40i Series Lifts	<b>4000kg</b>
SPO40E SPO40M SPO40i Series Lifts	<b>4000kg</b>

# Lift Controls SPOA30M, SPOA40M, And SPO40M Series Lifts

- ① Turning disconnect switch provides electricity to the motor.
- ② Pushing button starts the motor and raises the arms.
- ③ Pulling handle down disengages safety latches.
- ④ Pulling handle down lowers the arms.
- ⑤ Remove cap to fill or add fluid to power unit tank.



## Lift Controls For:

E Series Lifts

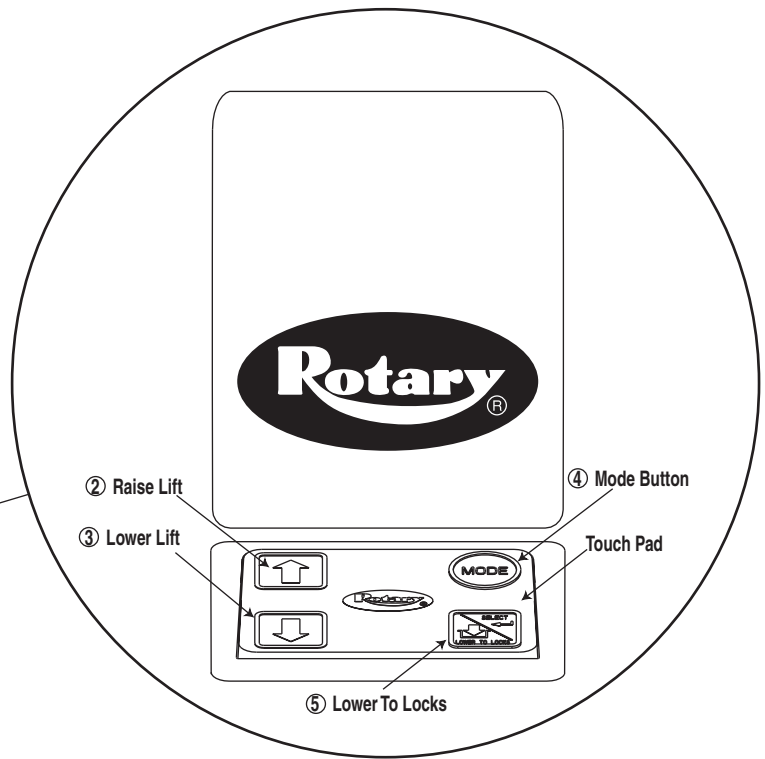
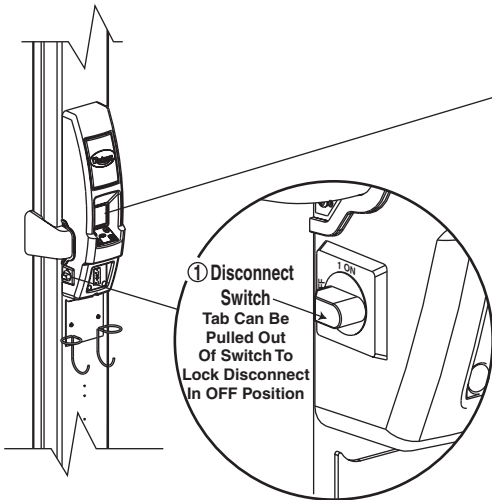
- ① Turning disconnect switches provides electricity to motor.

**Note:** Both disconnect switches must be "ON" to provide electricity to motor.

- ② Raises lift.
- ③ Lowers lift.
- ④ Resets the lift.
- ⑤ Lowers lift to locking latches.

Note: Press  to raise lift off of locking latches then press 

to lower lift.





## Lift Controls For:

i Series Lifts

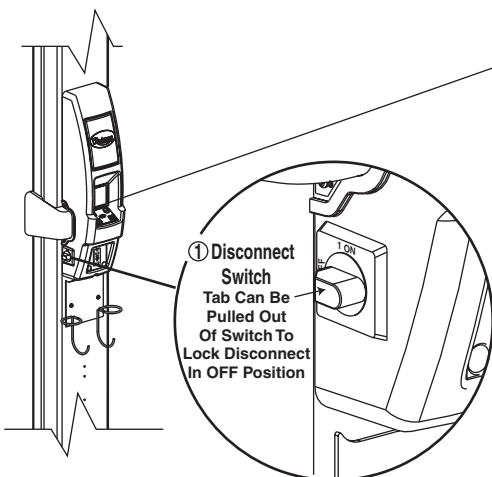
- ① Turning disconnect switch provides electricity to motor.

**Note:** Both disconnect switches must be "ON" to provide electricity to motor.

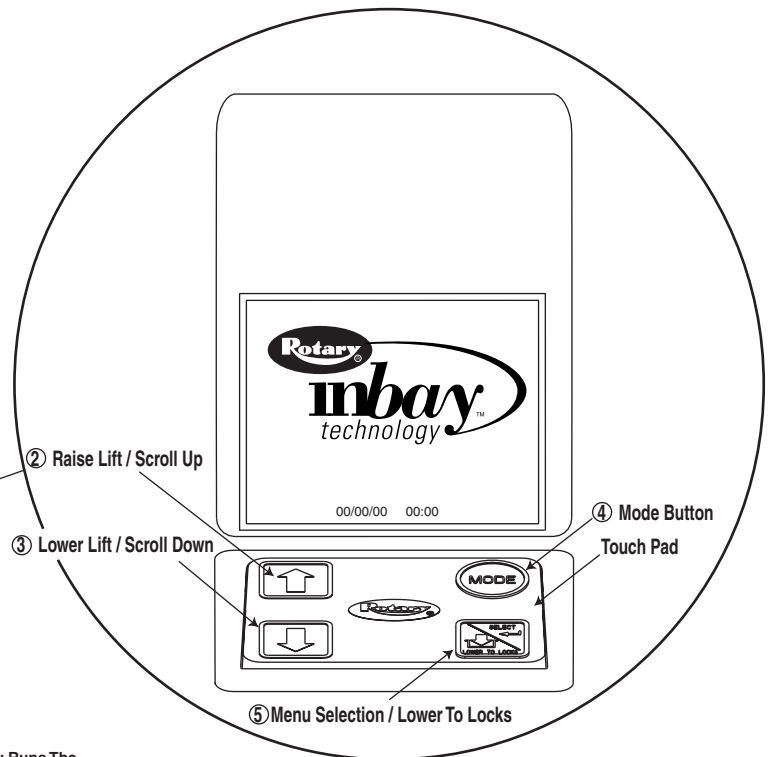
- ② Raises lift and scrolls up through menu selections.
- ③ Lowers lift and scrolls down through menu selections.
- ④ Toggles operator between menu selection and lift operation.
- ⑤ Lowers lift to locking latches.

Note: Press  to raise lift off of locking latches then press 

to lower lift.



Slave Control Panel Only Runs The Lift - You Can Not Select Any Menus From The Slave Side.



# OPERATING INSTRUCTIONS

## Surface Mounted Frame Engaging Lifts

**⚠️WARNING** To avoid personal injury and/or property damage, permit only trained personnel to operate lift. After reviewing these instructions, get familiar with lift controls by running the lift through a few cycles before loading vehicle on lift.

**IMPORTANT** Always lift the vehicle using all four adapters. NEVER raise just one end, one corner, or one side of vehicle.

**For Truck Frame Vehicles:** Assure vehicle frame can support it's weight & overhead bar or sensor will contact highest point on the vehicle.

### 1. Before Loading:

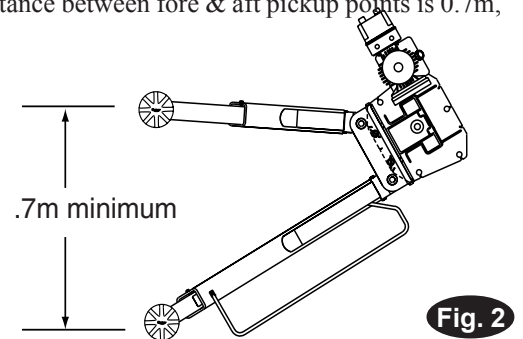
- Inspect Lift - See "Operator Maintenance" on page 8. Never operate if lift malfunctions or has broken or damaged parts.
- Lift must be fully lowered and service bay clear of all personnel before the vehicle is positioned onto lift.
- Swing arms out to full drive-thru position.
- Assure area around lift is free of tools, debris, grease, and oil.
- Assure Adapter Pads are free from grease and oil.
- Do Not allow unauthorized persons in shop area while lift is in use.
- Do Not use any part of the lift as a crane or as a support for another lifting mechanism (i.e.: block & tackle, etc.).
- Turn disconnect switch to "ON" Position, Fig. 1 and Fig. 1a.  
For E and i series lifts turn both disconnects "ON".

### 2. Loading:

- Do Not allow unauthorized or untrained persons to position vehicle or operate lift.
- Do Not drive over arms.
- Do Not overload lift. See capacity label on lift.
- Use Only adapter extenders provided by the manufacturer. Do Not use wood, concrete blocks, or other improvised extenders.
- Spot vehicle over lift with left front wheel in proper spotting dish position, Fig. 3. (Position vehicle according to the center of gravity, not for door opening clearance.)
- Check the condition of the pickup points of the vehicle.
- Swing arms under vehicle and position adapters at vehicle manufacturer's recommended lift points, Fig. 4. Adjust adapters to the required height to keep the vehicle level and properly balanced.
- Use optional adapters for under body clearance when

required.


- Minimum distance between fore & aft pickup points is 0.7m,




See Fig. 2.

### 3. To Raise Lift:

- Do Not permit anyone on lift or inside vehicle when it is being raised (or lowered).
- Maintain visual contact with arms, pickup points, & vehicle throughout the motion of the lift while remaining clear of lift.
- For SPOA30M, SPOA40M, and SPO40M Series Lifts:

Push  on power unit to raise lift, Fig. 1.

- For SPOA30E, SPOA40E, SPO40E, SPOA30i, SPOA40i,

and SPO40i Series Lifts: Push  on touch pad of

master or slave control panel, Fig. 1a. Push  on

touch pad of master or slave control panel to lower lift onto locking latches.

**Note:** Allow 2 seconds between motor starts. Failure to comply may cause motor burnout.

- Stop before making contact with vehicle. Check arm restraint pins for engagement. If required, slightly move arm to allow restraint gear and pawl to mesh. **DO NOT** hammer pin down as this will damage the restraint gear teeth.
- Raise vehicle until tires clear the floor.
- Stop and check adapters for secure contact at vehicle manufacturer's recommended lift points.
- Continue to raise to desired height **only** if vehicle is stable on lift.
- Lower lift onto safety latches after desired height is reached. (Lift is to be raised high enough for locking latches to engage.)
- **DO NOT** go under vehicle if all four adapters are not in stable contact at vehicle manufacturer's recommended lift points.
- Repeat complete spotting, loading, and raising procedures if vehicle is unstable.

#### 4. While Using Lift:

- Avoid excessive rocking of vehicle while on lift.
- Always use safety stands as needed for stability when removing or installing heavy components. (i.e.: engines, transmissions, etc.) Use 4 safety stands.
- Raise safety stands to meet vehicle, do not lower vehicle onto stands.
- Avoid accidental touching of exposed exhaust system on raised vehicles. Watch for air hoses and electrical cords which may be tripped over.
- Wear safety glasses while working under vehicle.

#### 5. Before Lowering Lift:


- Remove all tools or other objects from lift area.
- Assure personnel are not in lift area.


#### 6. To Lower Lift:

- Remain clear of lift when lowering vehicle. Keep Feet Clear!
- **For SPOA30M, SPOA40M, and SPO40M Series Lifts:**
  - Raise lift off locking latches.
  - Push LATCH release handle fully and hold.
  - Push LOWERING valve handle to lower, Fig. 1.

*Note: Both LATCH release and LOWERING valve handles are deadman-type design. Each must be held down to lower lift. Do not override these self-closing lift controls.*

- **For SPOA30E, SPOA40E, SPO40E, SPOA30i, SPOA40i, and SPO40i Series Lifts:**

- Push  on master or slave control panel to raise lift off of locking latches.

- Push  on master or slave control panel to lower lift.

#### 7. Unloading:

- Remove adapters from under vehicle and swing arms to full drive-thru position before moving vehicle.
- Assure Exit area is clear of objects and personnel before removing vehicle from lift.

#### 8. Power Off:

- Turn disconnect switch to "**OFF**" position while lift is not in use.

#### 9. Trouble Shooting:

- See page 8.

#### 10. Maintenance:

- See page 8.

## Typical Wheel Spotting Positions

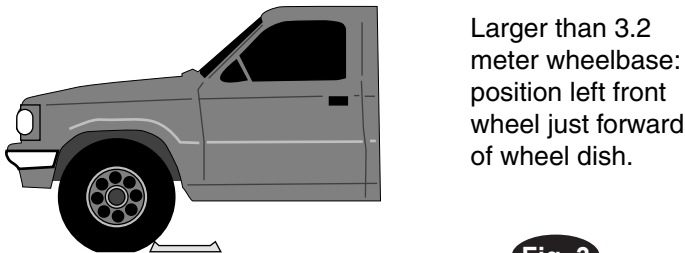
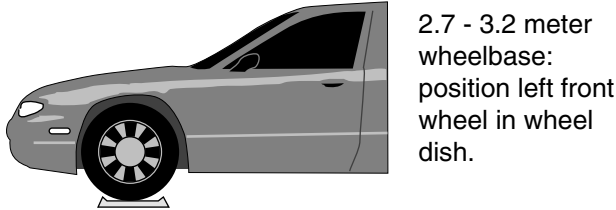
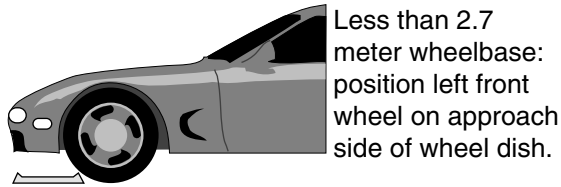


Fig. 3

**WARNING** Most specialty or modified vehicles cannot be raised on a frame engaging lift. Contact vehicle manufacturer for raising or jacking details.

## Typical Lift Points

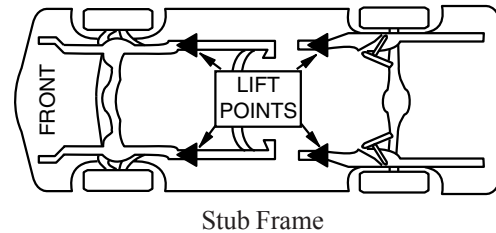
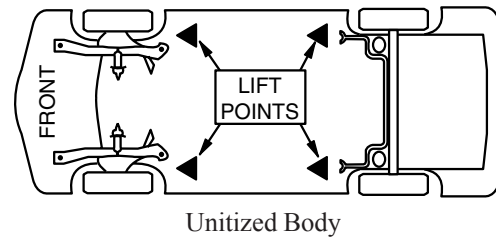
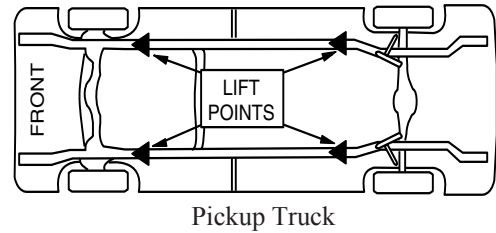
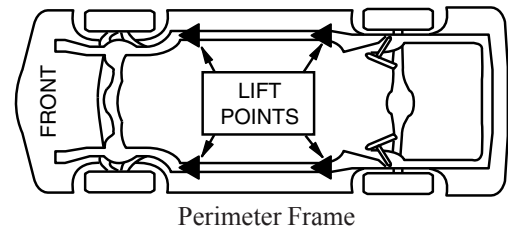


Fig. 4

## RESIDUAL RISKS

- Check the condition of the pickup points of the vehicle. Assure these points are not weakened due to rust, corrosion, damage, or modification.
- Vehicles with heavy material in the trunk or modified to carry equipment or tools, will have a changed center of gravity. Use stands when working on such vehicles.
- Assure cargo does not cause either individual axle weight to exceed one half lift capacity.

# OPERATOR INSPECTION & MAINTENANCE

(MAINTENANCE AUTHORIZED BY OPERATOR)

- Always keep bolts tight. Check periodically.
- Always assure arm stop bolts are in place.
- Always keep lift components clean.
- Always, if oil leakage is observed, call local service representative.
- Daily: Check cables and sheaves for wear. If parts are worn, call local service representative.
- Daily: Inspect adapters for damage or excessive wear. If parts are worn, call local service representative.
- Daily: Check for permanent deformation to the latches. If present, call local service representative to replace parts.
- Monthly: Check equalizer cable tension. If parts are worn, call local service representative.
- Monthly: Check overhead switch/sensor for function.
- Every 3 Months: Check anchor bolts for tightness. Anchors should be torqued to 200Nm (12.4kg-m).
- Every 6 months: Check fluid level of lift power unit and refill to proper level in level indicator with lift fully lowered.
- Replace all decals on the lift if unable to read or missing. Reorder labels from Rotary Lift.
- Monthly: Clean and check base of lift. Remove any rust and touch-up with paint.
- Monthly: Coat the cable contact surface with a light grease such as "TUFOIL".

## TROUBLE SHOOTING FOR OPERATORS FOR SPOA30M, SPOA40M AND SPO40M SERIES LIFTS

Trouble	Cause	Remedy
Motor does not run.	1. Blown fuse or circuit breaker.	1. Replace blown fuse or reset circuit breaker. 2. Contact service representative for further assistance.
Motor runs but will not raise lift.	1. Low oil level.	1. Fill tank to <b>MIN</b> mark with ISOVG32 hydraulic oil or DexronIII ATF. 2. Contact service representative for further assistance.
Motor runs—raises unloaded lift but will not raise vehicle.	1. Overloading lift.	1. Check vehicle weight and/or balance vehicle weight on lift. 2. Contact service representative for further assistance.
Lift slowly settles down.	See Remedy	1. Contact service representative for further assistance.
Slow lifting speed or oil blowing out filler breather cap.	See Remedy	1. Contact service representative for further assistance.
Lift going up unlevel.	See Remedy	1. Contact service representative for further assistance.
Anchors will not stay tight.	See Remedy	1. Contact service representative for further assistance.
Locking latches do not engage.	See Remedy	1. Contact service representative for further assistance.
Locking latches do not disengage.	See Remedy	1. Contact service representative for further assistance.



# TROUBLE SHOOTING FOR OPERATORS

## FOR SPOA30i, SPOA40i AND SPO40i SERIES LIFTS

Up button



pressed but lift doesn't raise

Trouble	Cause	Remedy
Error message on LCD.	<ol style="list-style-type: none"> <li>1. Photosensor Fault</li> <li>2. Reflector or photosensor dirty.</li> <li>3. Photosensor out of Alignment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check photosensor for blockage breaking the beam to reflector.</li> <li>2. Clean reflector and photosensor making sure not to misalign photosensor.</li> <li>3. Contact service representative for further assistance.</li> </ol>
No error message on LCD.	<ol style="list-style-type: none"> <li>1. Touch pad not functioning.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check touchpad on opposite column if neither touchpad is functioning contact service representative for further assistance.</li> </ol>
Motor won't run from either column.	<ol style="list-style-type: none"> <li>1. Incorrect voltage to power unit.</li> </ol>	<ol style="list-style-type: none"> <li>1. Contact service representative for further assistance.</li> </ol>
Motor runs but will not raise lift.	<ol style="list-style-type: none"> <li>1. Overloading lift.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check vehicle weight and/or balance vehicle weight on lift.</li> <li>2. Contact service representative for further assistance</li> </ol>
Locking latches do not engage.	<ol style="list-style-type: none"> <li>1. Broken latch spring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Contact service representative for further assistance.</li> </ol>

Down button



pressed but lift doesn't lower

Trouble	Cause	Remedy
Error message on LCD.	<ol style="list-style-type: none"> <li>1. LOWERING VALVE CIRCUIT FAULT</li> <li>2. Latch Release Fault 1</li> <li>3. Latch Release Fault 2</li> </ol>	<ol style="list-style-type: none"> <li>1. Check lowering valve plug on power unit. If connection is good and you are still getting this error contact service representative for further assistance.</li> <li>2. Solenoid failure master control panel side. Contact service representative for further assistance.</li> <li>3. Solenoid failure slave control panel side. Contact service representative for further assistance.</li> </ol>
No error message on LCD.	<ol style="list-style-type: none"> <li>1. Touchpad not functioning</li> </ol>	<ol style="list-style-type: none"> <li>1. Contact service representative for further assistance.</li> </ol>

# TROUBLE SHOOTING FOR OPERATORS

## FOR SPOA30i, SPOA40i AND SPO40i SERIES LIFTS


Lower To Locks  button pressed but lift doesn't lower

Trouble	Cause	Remedy
Error message on LCD	1. LOWERING VALVE CIRCUIT FAULT	1. Check lowering valve plug on power unit. If connection is good and you are still getting this error contact service representative for further assistance.
No error message on LCD	1. Touchpad not functioning	1. Check touchpad on opposite column if neither touchpad is functioning contact service representative for further assistance.

# TROUBLE SHOOTING FOR OPERATORS

## FOR SPOA30E, SPOA40E AND SPO40E SERIES LIFTS


Up button  pressed but lift doesn't raise

Trouble	Cause	Remedy
Slow signal.	<ol style="list-style-type: none"> <li>1. Photosensor Fault</li> <li>2. Reflector or photosensor dirty.</li> <li>3. Photo sensor out of Alignment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check photosensor for blockage breaking the beam to reflector.</li> <li>2. Clean reflector and photosensor making sure not to misalign photosensor.</li> <li>3. Contact service representative for further assistance.</li> </ol>
Press  button nothing happens	1. Touch pad not functioning.	1. Check touchpad on opposite column if neither touchpad is functioning contact service representative for further assistance.
Motor won't run from either column.	1. Incorrect voltage to power unit.	1. Contact service representative for further assistance.
Motor runs but will not raise lift.	1. Overloading lift.	<ol style="list-style-type: none"> <li>1. Check vehicle weight and/or balance vehicle weight on lift.</li> <li>2. Contact service representative for further assistance</li> </ol>
Locking latches do not engage.	1. Broken latch spring.	1. Contact service representative for further assistance.


# TROUBLE SHOOTING FOR OPERATORS

## FOR SPOA30E, SPOA40E AND SPO40E SERIES LIFTS

### Down button pressed but lift doesn't lower

Trouble	Cause	Remedy
2 signals.	<b>1. LOWERING VALVE CIRCUIT FAULT</b>	<b>1.</b> Check lowering valve plug on power unit. If connection is good and you are still getting this error contact service representative for further assistance.
3 signals.	<b>1. Latch Release Fault 1</b>	<b>1.</b> Solenoid failure master control panel side. Contact service representative for further assistance.
4 signals.	<b>1. Latch Release Fault 2</b>	<b>1.</b> Solenoid failure slave control panel side. Contact service representative for further assistance.
Press  button nothing happens.	<b>1. Touchpad not functioning</b>	<b>1.</b> Check touchpad on opposite column if neither touchpad is functioning. Contact service representative for further assistance.

### Lower To Locks button pressed but lift doesn't lower

Trouble	Cause	Remedy
Press  button nothing happens.	<b>1. Touchpad not functioning</b>	<b>1.</b> Check touchpad on opposite column if neither touchpad is functioning. Contact service representative for further assistance.
5 To 8 Signals	<b>1. Bad Circuit Board</b>	<b>1.</b> Contact service representative for further assistance.

# REPAIR MAINTENANCE

(MAINTENANCE AUTHORIZED BY QUALIFIED SERVICE REPRESENTATIVE ONLY)

- Lockout any energy sources before beginning any repairs.
- DO NOT modify the lift in any manner without the prior written consent of the manufacturer.
- If electrical problems develop, make repairs according to local electrical codes. Use genuine Rotary Lift parts when replacement is necessary.
- Replace worn parts as required with genuine Rotary parts.
- Adjust equalizer cable tension per lift installation instructions.
- Monthly: Lubricate locking latch shafts. Push latch handle several times for oil to penetrate joints.

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## Annual Inspection

(performed by Authorized Personnel)

Aside from the routine checks that are stated under "Operator Maintenance", the following annual inspection is to be performed and a record of this inspection permanently retained on site. All deficiencies are to be corrected by the proper authorized personnel.

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## Inspection Points

- Check accessibility of the operating procedures.
- Check accessibility and readability of all labels.
- Check the rated load capacity of the lift.
- Examine all structural components including welds.
- Check electrical cords for insulation damage.
- Check fluid level.
- Check the lift controls for function.
- Check for proper function of swing arm restraints.
- Check all fastening devices for tightness including floor anchor bolts.
- Check exposed surfaces and edges.
- Operate the lift and check the operation of the positive stop and the lift safety latches.
- Check for proper operation of adapters.
- With a representative vehicle on the lift, check the lowering speed (not to exceed 0.15m/s).
- Check the operation of the synchronization or equalization system so that both sides raise and lower equally.
- \*Check the function of overhead switch and/or photosensors (Photosensors only on E and i series lifts).
- Check all accessible piping, tubing, hose, valves and fittings. Review lift oil consumption records.
- \*Operate lift through full excursion and observe.
- With lift loaded, stop the lift at midpoint of travel and observe for drifting down and hydraulic leaks.
- Check with operator to ascertain any unusual operating characteristics.

*\*Perform check with and without a vehicle representative load.*

# TROUBLE SHOOTING FOR AUTHORIZED MAINTENANCE PERSONNEL FOR ALL SPOA30, SPOA40 AND SPO40 Series Lifts

Trouble	Cause	Remedy
Motor does not run.	<ol style="list-style-type: none"> <li>1. Incorrect voltage to motor.</li> <li>2. Bad wiring connections.</li> <li>3. Motor up switch burned out.</li> <li>4. Overhead limit switch burned out.</li> <li>5. Motor windings burned out.</li> </ol>	<ol style="list-style-type: none"> <li>1. Supply correct voltage to motor.</li> <li>2. Repair and insulate all connections.</li> <li>3. Replace switch / touchpad.</li> <li>4. Replace switch / photosensor / reflector.</li> <li>5. Replace motor.</li> </ol>
Motor runs but will not raise lift	<ol style="list-style-type: none"> <li>1. Overloading lift</li> <li>2. Motor running on low voltage</li> <li>3. Debris in lowering valve</li> <li>4. Pump sucking air</li> <li>5. Suction stub off pump</li> <li>6. Low oil level</li> <li>7. Improper relief valve adjustment</li> </ol>	<ol style="list-style-type: none"> <li>1. Check vehicle weight and/or balance vehicle weight on lift</li> <li>2. Supply correct voltage to motor</li> <li>3. Clean lowering valve</li> <li>4. Tighten all suction line fittings</li> <li>5. Replace suction stub</li> <li>6. Fill tank to proper level with ISOVG32 hydraulic oil or Dexron III ATF</li> <li>7. Replace relief valve cartridge</li> </ol>
Lift slowly settles down.	<ol style="list-style-type: none"> <li>1. Debris in check valve seat.</li> <li>2. Debris in lowering valve seat.</li> <li>3. External oil leaks.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean check valve.</li> <li>2. Clean lowering valve.</li> <li>3. Repair external leaks.</li> </ol>
Slow lifting speed or oil blowing out filler breather cap.	<ol style="list-style-type: none"> <li>1. Air mixed with oil.</li> <li>2. Air mixed with oil suction.</li> <li>3. Oil return tube loose.</li> </ol>	<ol style="list-style-type: none"> <li>1. Change oil to Dexron III ATF or ISOVG32.</li> <li>2. Tighten all suction line fittings.</li> <li>3. Reinstall oil return tube.</li> </ol>
Lift going up unlevel.	<ol style="list-style-type: none"> <li>1. Equalizer cables out of adjustment.</li> <li>2. Lift installed on unlevel floor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust equalizer cables to correct tension.</li> <li>2. Shim lift to level columns (Not to exceed 13mm). If over 13mm, break out floor and level per lift installation instructions.</li> </ol>
Anchors will not stay tight.	<ol style="list-style-type: none"> <li>1. Holes drilled oversize.</li> <li>2. Concrete floor thickness or holding strength not sufficient.</li> </ol>	<ol style="list-style-type: none"> <li>1. Relocate lift using new bit to drill holes. Reference installation instructions for proper anchoring method and minimum spacing requirements.</li> <li>2. Break out old concrete and re-pour new pads for lift per lift installation instruction.</li> </ol>
Locking latches do not engage. (SPOA30M, SPOA40M, AND SPO40M Series lifts only.)	<ol style="list-style-type: none"> <li>1. Latch shafts rusted. (Usually occurs on outside installations or in high humidity areas such as vehicle wash bays.)</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove covers, oil latch mechanism. Depress latch release handle several times to allow oil to coat shaft.</li> </ol>
Locking latches do not disengage. (SPOA30M, SPOA40M, AND SPO40M Series lifts only.)	<ol style="list-style-type: none"> <li>1. Latch cable is broken.</li> <li>2. Cable is off sheaves.</li> <li>3. Latch cable is loose.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace cable.</li> <li>2. Check position of upper sheaves.</li> <li>3. Replace cable.</li> </ol>

**Note:** Shim thickness of 51mm is possible by using optional shim kit #FC5393. Contact your authorized Rotary repair person.

## TROUBLE SHOOTING FOR AUTHORIZED MAINTENANCE PERSONNEL FOR ALL SPOA30, SPOA40 AND SPO40 Series Lifts

Trouble	Cause	Remedy
Lift stops short of full rise or chatters.	<ol style="list-style-type: none"> <li>1. Low oil level</li> <li>2. Air in hydraulic lines/cylinder</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill tank to <b>MIN</b>___ mark with ISOVG32 hydraulic oil or DexronIII ATF.</li> <li>2. Start unit, raise lift about 610mm. Open cylinder bleeders approximately 2 turns. Close bleeders when fluid streams. Lower lift and fill tank.</li> </ol>

## TROUBLE SHOOTING FOR AUTHORIZED MAINTENANCE PERSONNEL FOR SPOA30i, SPOA40i AND SPO40i Series Lifts

Up button  pressed but lift doesn't raise

Trouble	Cause	Remedy
Error message on LCD	<ol style="list-style-type: none"> <li>1. Photosensor Fault</li> <li>2. Reflector or photosensor dirty</li> <li>3. Photosensor out of alignment</li> <li>4. Reflector or photosensor missing</li> <li>5. Power unit circuit fault</li> </ol>	<ol style="list-style-type: none"> <li>1. Check photosensor for blockage breaking the beam to reflector.</li> <li>2. Clean reflector and photosensor making sure not to misalign photosensor.</li> <li>3. Realign photosensor see Fig. 10</li> <li>4. Replace missing component.</li> <li>5. Have certified electrician check wiring to power unit.</li> </ol>
No error message on LCD	<ol style="list-style-type: none"> <li>1. Touchpad not functioning</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace touchpad.</li> </ol>
Locking latches will not engage	<ol style="list-style-type: none"> <li>1. Broken latch spring</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace latch spring</li> </ol>

# TROUBLE SHOOTING FOR AUTHORIZED MAINTENANCE PERSONNEL FOR SPOA30i, SPOA40i AND SPO40i Series Lifts

## Down button pressed but lift doesn't raise


Trouble	Cause	Remedy
Error message on LCD	<ol style="list-style-type: none"> <li>1. LOWERING VALVE CIRCUIT FAULT</li> <li>2. Latch Release Fault 1</li> <li>3. Latch Release Fault 2</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace lowering valve.</li> <li>2. Check lowering valve plug.</li> <li>2. Faulty solenoid or faulty connection on master control panel side. Replace components.</li> <li>3. Faulty solenoid or faulty connection on slave control panel side. Replace components.</li> </ol>
No error message on LCD	<ol style="list-style-type: none"> <li>1. Touchpad not functioning</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace touchpad.</li> </ol>

## Lower To Locks button pressed but lift doesn't lower

Trouble	Cause	Remedy
Error message on LCD	<ol style="list-style-type: none"> <li>1. LOWERING VALVE CIRCUIT FAULT</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace lowering valve.</li> <li>2. Check lowering valve plug.</li> </ol>
No error message on LCD	<ol style="list-style-type: none"> <li>1. Touchpad not functioning</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace touchpad.</li> </ol>

# TROUBLE SHOOTING FOR AUTHORIZED MAINTENANCE PERSONNEL FOR SPOA30E, SPOA40E AND SPO40E Series Lifts


Up button  pressed but lift doesn't raise

Trouble	Cause	Remedy
Slow Signal	<ol style="list-style-type: none"> <li>1. PHOTOSENSOR HAS BEEN TRIPPED</li> <li>2. Reflector or photosensor dirty</li> <li>3. Photosensor out of alignment</li> <li>4. Reflector or photosensor missing</li> <li>5. Power unit circuit fault</li> </ol>	<ol style="list-style-type: none"> <li>1. Check photosensor for blockage breaking the beam to reflector.</li> <li>2. Clean reflector and photosensor making sure not to misalign photosensor.</li> <li>3. Realign photosensor see Fig.10</li> <li>4. Replace missing components.</li> <li>5. Have certified electrician check wiring to power unit.</li> </ol>
Press  button nothing happen	<ol style="list-style-type: none"> <li>1. Touchpad not functioning</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace touchpad.</li> </ol>
Locking latches will not engage	<ol style="list-style-type: none"> <li>1. Broken latch spring</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace latch spring</li> </ol>




# TROUBLE SHOOTING FOR AUTHORIZED MAINTENANCE PERSONNEL FOR SPOA30E, SPOA40E AND SPO40E Series Lifts

Down button  pressed but lift doesn't lower

Trouble	Cause	Remedy
2 Signals	1. LOWERING VALVE CIRCUIT FAULT	1. Replace lowering valve. 2. Check lowering valve plug.
3 Signals	1. Latch Release Fault 1	1. Faulty solenoid or faulty connection on master control panel side. Replace components.
4 Signals	1. Slave side latch release solenoid fault	1. Faulty solenoid or faulty connection on slave control panel side. Replace components.
Press  button nothing happens	1. Touchpad not functioning	1. Replace touchpad

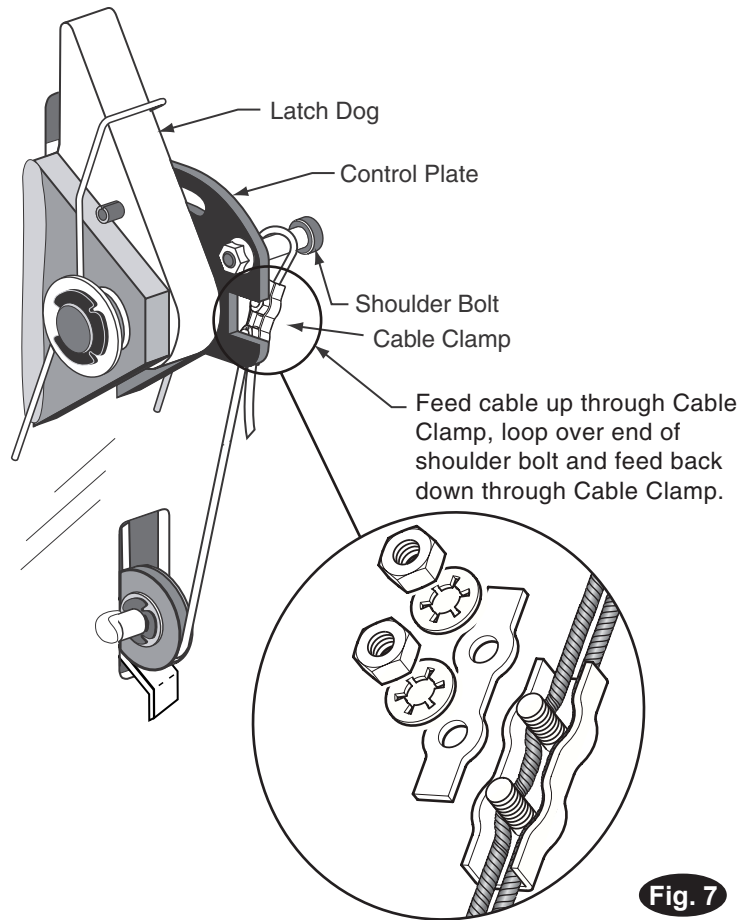
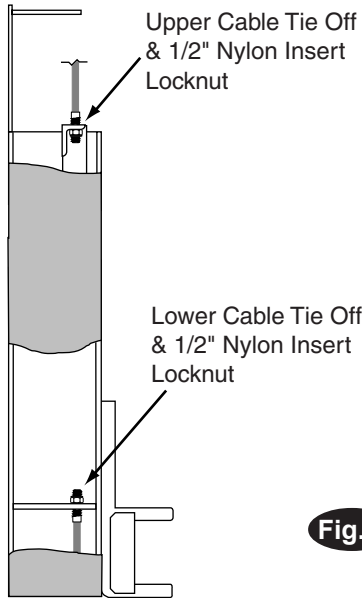
Lower To Locks  button pressed but lift doesn't lower

Trouble	Cause	Remedy
Press  button nothing happens	1. Touchpad not functioning	1. Replace Touchpad.
5 To 8 Signals	1. Bad circuit board.	1. Replace circuit board.

# Latch Cable Adjustment For SPOA30M, SPOA40M, And SPO40M Series Lifts

## Checking and Adjusting Equalizer Cables:

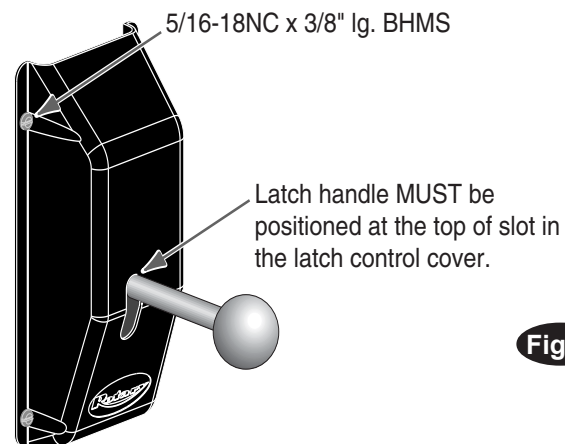
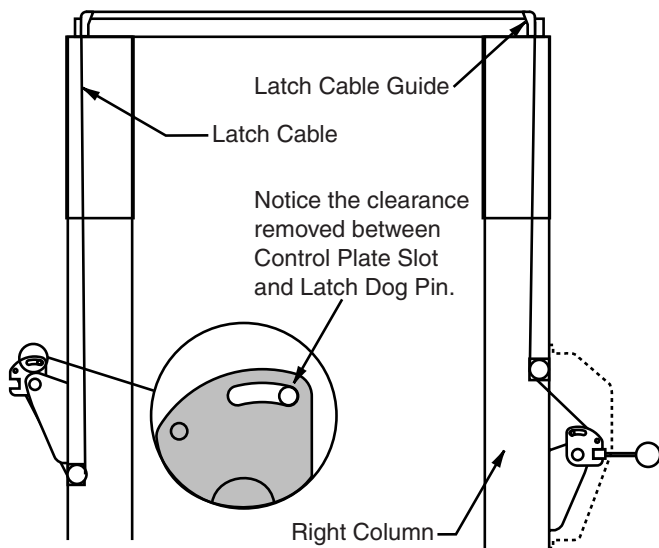
Raise lift to check equalizer cable tension. Below carriage, grasp adjacent cables between thumb and forefinger, with about 67N effort you should just pull the cables together. Adjust at upper tie-offs (Fig. 5).



## Checking and Adjusting Locking Latch Cable:

1. Raise carriages past the first latch position and then lower onto latches.
2. Check that the latches have fully engaged when the latch handle is released. Be sure carriage is resting on latch dog.
3. Raise carriages fully off latches, push latch handle and check that the latches have fully disengaged.
4. Make necessary adjustments if required, see Fig. 7, recheck latch function. Latch handle must be as shown in Fig. 8.

Pull Control Plate down, making sure the Latch Dog itself does not move, to eliminate clearance between Control Plate slot and Latch Dog pin (Fig. 6). Loosen clamp and remove slack in the cable. Tighten the clamp.



# For SPOA30E, SPOA30i, SPOA40E, SPOA40i, SPO40E, AND SPO40i Lifts Only

## MANUAL LOWERING OF LIFT

If your lift is in a raised position and you lose power it is important to know how to lower the lift manually. Make sure nothing is under the lift and all unauthorized personnel are away from the lift area.

- 1.) Place a hydraulic jack and pipe under the carriage on the master control side. Jack should be rated to lift the capacity of the vehicle.
- 2.) Raise lift off of the locking latch. You should only have to raise lift approximately 2mm to disengage the lock.
- 3.) Remove access panel from the master control panel (slave control panel for step 6) and pull locking latch back, Fig. 9. If you can't pull it back with your fingers then you don't have the latch off of the lock. Repeat step #2 until lock is disengaged.
- 4.) Place a flat piece of steel behind latch dog and back of column to keep it off of the lock.
- 5.) Slowly lower hydraulic jack and pipe out from under the arm carriage.
- 6.) Repeat procedures 1 through 5 on slave control panel column.
- 7.) The lift is now being held up by hydraulics at this point
- 8.) Remove cap from lowering valve and press to lower lift, Fig. 9. The lift will lower at a slow speed. Replace cap on lowering valve after lift has been lowered.
- 9.) If your facility lost power your lift will operate when you regain power.
- 10.) If your facility power was not lost have a certified electrician check wiring to lift or call an authorized service representative

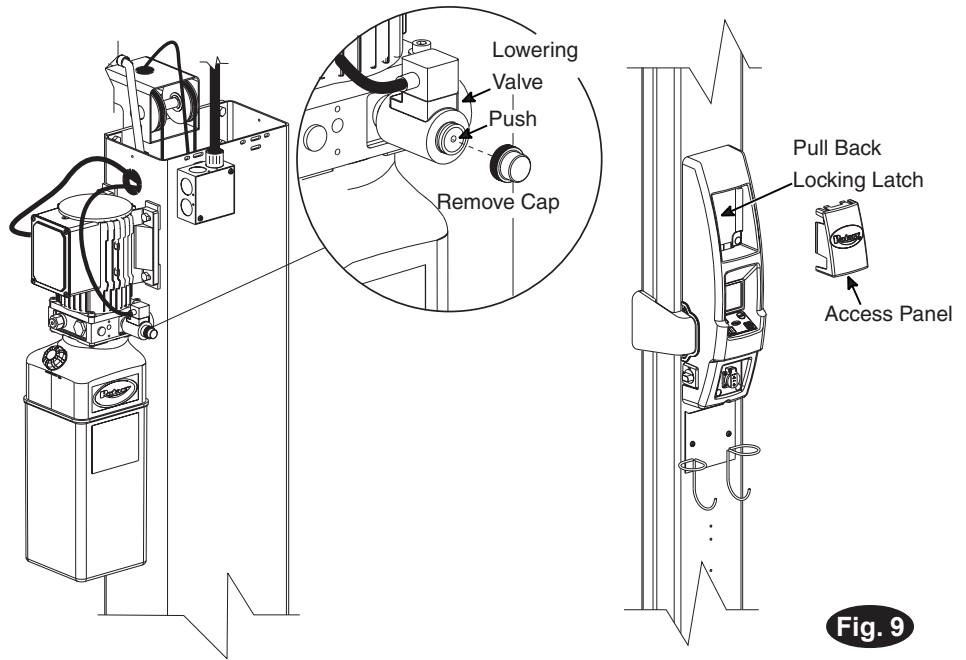
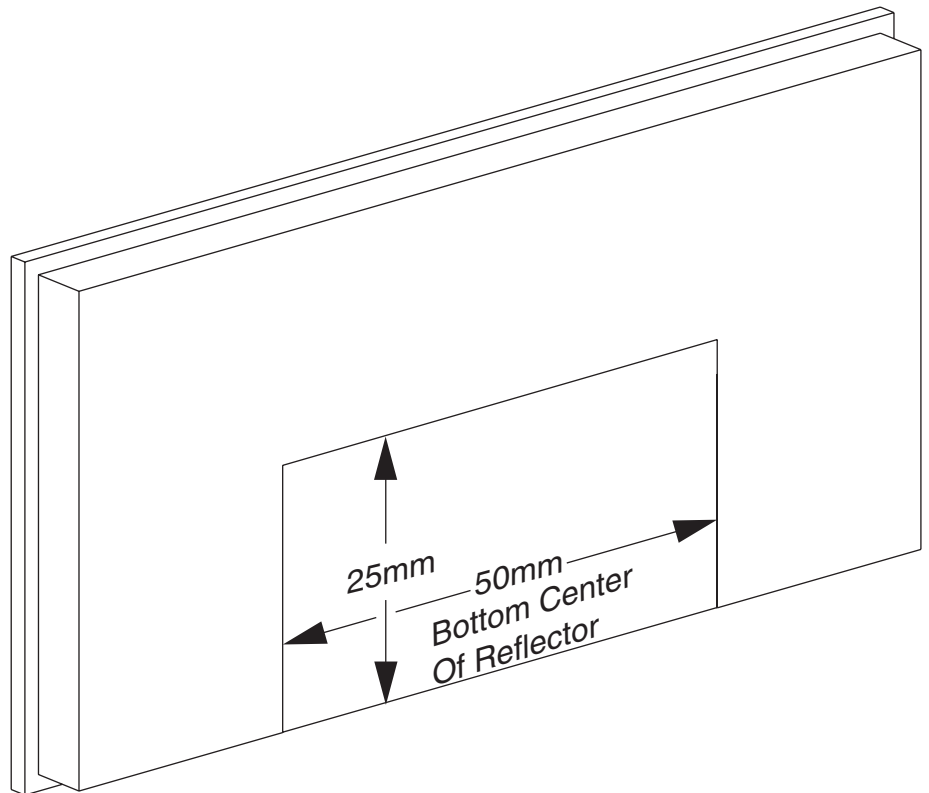


Fig. 9

## Realignment of Photosensor

Tape over reflector with masking tape leaving lower center of the reflector exposed (approximately a 25mm x 50mm area) to make readjustment, Fig. 10. Adjust photosensor until yellow indicator light comes on. The yellow indicator light is located on the bottom of the photosensor. Tighten clamping bolts making sure the indicator light remains on. Once the photosensor is secure and in adjustment remove the alignment tape from the reflector.



Readjustment Of Photo Sensor:  
Tape over reflector with masking tape leaving the lower center of the reflector exposed (approximately a 25mm x 50mm area) to make the readjustment. Remove tape after adjustment is made.

Fig. 10

NOTES:

NOTES:

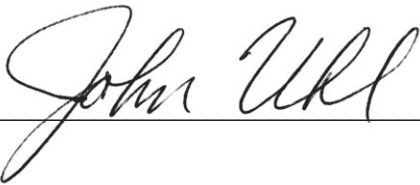
NOTES:

## *EC Declaration of Conformity to Type*

<b>Manufacturer's Name</b> .....	Rotary Lift/Dover Corporation
<b>Manufacturer's Address</b> .....	2700 Lanier Drive Madison, Indiana 47250 USA
<b>Representative's Name</b> .....	John Uhl
<b>Representative's Address</b> .....	Rotary Lift 2700 Lanier Drive Madison, Indiana 47250 USA
<b>Type of Equipment</b> .....	Hydraulic Automotive Lift
<b>Model Numbers</b> .....	SPOA30 Series, SPOA40 Series, SPO40 Series
<b>Relevant Directives</b> .....	98/37/EC
<b>Approval Body</b> .....	TÜV Rheinland
<b>Certificate Number</b> .....	BM 60002500 001

I, the undersigned, hereby declare that the equipment specified above conforms with the type-tested sample certified by the Approval Body stated above.

Place: Madison, Indiana, USA



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(Signature)

**ENGINEERING MANAGER**

**Trained Operators and Regular Maintenance Ensures Satisfactory Performance of Your Rotary Lift.**

**Replacement Parts:** See installers package for parts breakdown sheet. Order Genuine Rotary replacement parts from your nearest Authorized Parts Distributor.

**Maintenance Assistance:** Contact your local Rotary distributor.

Should further assistance be required, contact Rotary Lift, at one of the phone numbers listed below.

World Headquarters:  
**Rotary Lift**  
A  **DOVER** COMPANY  
2700 Lanier Drive  
Madison, Indiana USA  
Phone: 1.800.640.5438  
Phone: 1.812.273.1622  
Fax: 1.800.578.5438  
Fax: 1.812.273.6502  
userlink@rotarylif.com  
www.rotarylif.com

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(Regional Sales Office)  
**Rotary Lift Europe S.r.l.**  
Cadriano (BO)  
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Fax: +39.051.763395  
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