SURFACE MOUNTED CONTINUOUS BASE INSTALLATION

This configuration is most often used for fleet maintenance, repair and service applications.

The lift unit translates to the rear approximately 36 1/8" during the vertical articulation.

100-42-SURFACE

PAGE 2 of 2
STANDARD CONSOLE LOCATION LAYOUT
SEE NOTE 18 IN REGARDS TO ALTERNATE LOCATIONS

100-42-SURFACE

NOTICE OF CONFIDENTIAL INFORMATION

C-SIZE

TOP VIEW OF CONSOLE FRAME

1 3/4 TYP (44)

UNITS = INCH (mm)

36 (914)

32 1/2 (826)

10 5/8 (270)

CONTROL PANEL

BACK

INCOMING CONDUITS TO PROTRUDE FROM FLOOR ~18" (460-500 mm) AS SHOWN (SEE TOP VIEW)

FRONT OF CONSOLE

BY OTHERS

A: 1" (MIN) SCHED 40 STEEL PIPE - INCOMING POWER
B: 1" (MIN) SCHED 40 STEEL PIPE - INCOMING AIRLINE
C,D: 4" SCHED 40 PVC PIPE - HYDRAULIC & AIR TO LIFT
E,F,G,H: 1" (MIN) SCHED 40 STEEL PIPE - ELECTRICAL TO LIFT

* NOTE: USE SMOOTH ELECTRICAL 90'S IN CONDUITS, NOT PLUMBING 90'S !!

CONTROL CONSOLE & STUB-UP DETAILS

CUSTOMER PREFERENCE OPTIONAL

NOTICE OF CONFIDENTIAL INFORMATION:

1. REMOVE ALL SHARP CORNERS & EDGES.
2. UNLESS OTHERWISE STATED, SURFACES TO BE FILED RUST FREE.
3. ALLOW 10% FOR TRIM & TRIM TO SPECIFICATIONS OR FROM ELECTRONICS OR NEUTRAL COLORS IN FILL MATERIAL ONLY.
**Anchor Bolt Details & Shimming**

**Installation Instructions:**

1. Drill the hole perpendicular to the work surface. To assure full holding power, do not clean the hole or allow the drill to wobble.

2. Drill the hole deeper than the intended embedment of the anchor, but not closer than two anchor diameters to the bottom (opposite) surface of the concrete.

3. Clean the hole using compressed air and a nylon brush. A clean hole is necessary for proper performance.

4. Turn the nut onto the anchor until contact is made with the top of the spade and the bottom of the washer. Insert anchor into hole.

5. Tap anchor into hole with a 2 1/2 lbs hammer until washer rests solidly against fixture.

6. Tighten the nut to 175 - 200 ft-lbs maximum torque and not less than 3 full turns, but not more than 5 turns past the hand tight position. Use of an impact wrench for installation of anchors is not recommended.

---

**Anchor Bolt Details Provided by Mohawk Lift**

**Anchors Manufactured by:**

WEI-IT Fastening Systems
3415 East 15th Place
Tulsa, Oklahoma 74104

Phone 918-744-7444
Or 800-541-1294

**Web Site:** www.mhi.com

**Anchors Specified Are:** The Original WEI-IT® Expansion Anchors, 3/4 Dia

**Catalog Number**

- 3400
- 3480
- 3480 6"
- 3415 8 1/2"
- 3410 10"

**Notice of Confidential Information**

- Always wear safety glasses. Follow the drill manufacturer's safety instructions. Use only solid carbide-tipped drill bits meeting and B21.2.13 diameter standards.

---

**NOTICE OF CONFIDENTIAL INFORMATION**

1. Access to this confidential information is limited to authorized personnel of Mohawk Lifts, Inc.
2. Copying, disclosure, or use of this confidential information is prohibited unless authorized in writing by an authorized representative of Mohawk Lifts, Inc.
3. Violation of these restrictions may result in legal action.
### Lift Data Table

**Mohawk Resources, Ltd.**
**Parallelogram Lift Model 100-42-Surface**

<table>
<thead>
<tr>
<th>Lift Unit Data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Load Capacity (lbs)</td>
<td>100,000</td>
</tr>
<tr>
<td>Anchorage</td>
<td>--</td>
</tr>
<tr>
<td>Anchor Bolt Diameter (in.)</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>Total Number of Anchor Bolts</td>
<td>84</td>
</tr>
<tr>
<td>Bolt Pattern</td>
<td>See Anchor Details</td>
</tr>
<tr>
<td>Anchor Bolt Setting Torque</td>
<td>N/A - See Anchor Details</td>
</tr>
<tr>
<td>Minimum Embedment Length (in.)</td>
<td>3.00</td>
</tr>
<tr>
<td>Minimum Concrete Thickness (in.)</td>
<td>6&quot; on Grade (See Note 23)</td>
</tr>
<tr>
<td>Hydraulic Reservoir Capacity (gal)</td>
<td>30 Total</td>
</tr>
<tr>
<td>Oil Type</td>
<td>Dexron III (ATF)</td>
</tr>
</tbody>
</table>

**Electrical**

- Motor Horsepower | 20 HP
- 208/230 v 3 Ph | 60 Ampere
- 460 v 3 Ph | 30 Ampere
- Control Circuit Transformer 1000 VA | 7.69 Amp
- 24 VDC Power Supply | 4.9 Amp
- Light Fixtures (Optional Lighting Kit) Qty | 8
- Shop Air | --
- Air Pressure (Psi) | 85 to 100
- Air Volume - Lift (cfm)(Locks) | 5
- Air Volume - Optional Rolling Jack (cfm) | 25 Each
- Air Volume - Optional Shop Air Kit (cfm) | 20
- Air Volume - Total Req'd Capacity (cfm) | Minimum
- Air Volume - Total Req'd Capacity (cfm) | Suggested

### Required Material List

Materials shown on this list shall be used without substitution unless specifically approved in writing by Mohawk Resources, Ltd.

<table>
<thead>
<tr>
<th>Item</th>
<th>QTY</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>1</td>
<td>Lockout/Tagout Disconnect Box</td>
<td>Per Local Electrical Codes</td>
</tr>
<tr>
<td>11*</td>
<td>AR</td>
<td>Leveling Shim</td>
<td>1/16&quot;, 1/8&quot;, 1/4&quot; Thick</td>
</tr>
<tr>
<td>10*</td>
<td>4B</td>
<td>3/4&quot; x 5&quot; Anchor Bolt Assembly</td>
<td>Wedge Anchors</td>
</tr>
<tr>
<td>9</td>
<td>4</td>
<td>1&quot; Seal Barrier</td>
<td>Crouse-Hinds EY53</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>1-3/4&quot; Reducer Bushing</td>
<td>Crouse-Hinds R52</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td>1&quot; SCH 40-90 Deg Elbow</td>
<td>Crouse-Hinds EY53</td>
</tr>
<tr>
<td>6*</td>
<td>1</td>
<td>Junction Box (In Console)</td>
<td>Steel</td>
</tr>
<tr>
<td>5</td>
<td>AR</td>
<td>Sealite Flexible Conduit</td>
<td>Metal Core</td>
</tr>
<tr>
<td>4</td>
<td>AR</td>
<td>1&quot; Rigid Conduit</td>
<td>Steel</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Filter/Lubricator/Regulator, Dryer Shutoff</td>
<td>Steel or PVC</td>
</tr>
<tr>
<td>2</td>
<td>AR</td>
<td>4&quot; SCH 40 Street Elbow</td>
<td>Steel or PVC</td>
</tr>
<tr>
<td>1</td>
<td>AR</td>
<td>4&quot; SCH 40 Pipe</td>
<td>Steel or PVC</td>
</tr>
</tbody>
</table>

* Items supplied by Mohawk with the lift unit.
GENERAL NOTES

NOTE 1
If the existing concrete floor has a documented minimum strength of not less than f'c = 4,000 psi and is at least 6 inches thick, then the floor system may be used without alterations. Generally, any floor area which is designed for vehicles of the same weight as the lift unit maximum capacity will be adequate for installation of the lift unit. Lift unit contact pressures will be equal to or less than the wheel contact pressures.

NOTE 2
If the concrete floor system does not meet minimum specifications of Note 1 above, then a new concrete floor shall be installed to support the lift.

NOTE 3
If the strength of an existing floor system is unknown or not documented, its strength should be determined. Core samples should be taken to determine the strength of the floor.

NOTE 4
Any new concrete used for repairs or alterations to the floor system shall be at a minimum f'c = 4,000 psi, with heavy aggregate, for any new concrete it shall reach its full 28 day f'c strength before the lift and the anchor bolts are installed.

NOTE 5
Any new concrete used for floor repairs or alterations shall have reinforcing as required by the conditions and vehicle load requirements. Reinforcement shall be determined by others. At a minimum two layers of 6 x 6 10/10 welded wire fabric shall be used for any floor repairs. Also, floor repairs shall be dowelled into the existing floor system to prevent differential settlement.

NOTE 6
For installation in existing structures, areas of the floor which are cut and removed for service conduit installations shall be repaired with concrete having minimum strength of not less than f'c = 4,000 psi, and is at least 9 inches thick in the areas around and to the rear of the service legs.

NOTE 7
For new construction, the areas of the floor along the lift runways should be deepened to 9 inches for each anchor installation. Also, provide a minimum 6 inch thickness around and to the rear of the service legs.

NOTE 8
For new construction where in floor radiant heating tubes are used, these tubes may be placed under the lift area provided the slab is cast sufficiently thick. A minimum of 6 inches clearance should be provided for anchor bolts and grouting allowance. The installer must be notified that radiant tubes are used such that care is taken not to over drill the depth of the anchors.

NOTE 9
The support plates of the continuous base shall not be installed over a construction joint of the floor system. The support base plates shall not be placed nearer than 10 inches to a construction joint or free edge of the floor slab.

NOTE 10
A maximum of one inch anchor bolt shim thickness is permitted. Individual anchor bolt shims are available in a range of thicknesses.

NOTE 11
Where more than one inch of shim leveling is required, full support plate contact shims are available at additional cost. The full contact shim plates shall then be accurately leveled using individual anchor bolt shims.

NOTE 12
Wej-Lift Fastening Systems, at Wedge Anchors are provided with the lift for anchoring the lift unit to the floor system. The number and size of anchor bolts specified in the drawing must be used to attach the lift unit. Anchor bolts of full length must be used in all locations provided on the base of the lift unit.

NOTE 13
Except as described in Note 7, no embedded plumbing, tubes, conduits or other items, except the lift unit service leg conduits shall be closer than 16 inches from any anchor bolt. The service leg conduits shall be installed accurately in the locations shown in the plan and detail view to minimize the effect on the anchorage.

NOTE 14
No anchor bolt shall be installed closer than 10 inches from any free edge or floor joint.

NOTE 15
Provide two, 4 inch SCH 40 PVC pipe as a hydraulic-pneumatic service supply conduit running from the power unit to each service leg.

NOTE 16
Provide, 1 inch SCH 40 steel conduits as electrical service supply running from the power unit to the service legs. These conduits shall be installed as shown on the section views and must be installed according to applicable electrical codes.

NOTE 17
Provide temporary caps for all conduits and embedded pipes. It is recommended to leave pull ropes in conduits for ease of lift installation.

NOTE 18
The control console must be located in the vicinity of the lift. It should be placed far enough away from the lift to allow for activities around the lift. The enclosed drawings show the console in a standard position. The control console may be located on either side and anywhere along the length of the lift, but any alterations from the enclosed drawings may require longer cables, hoses, conduit, etc. Additional expense to the purchaser.

NOTE 19
The lift unit requires a high voltage power source, a lockout/tagout electrical disconnect box must be installed for the power source. The lockout/tagout disconnect box must be installed according to applicable electrical codes, this electrical disconnect is to be provided by others.

NOTE 20
Provide one, 1 inch SCH 40 rigid steel conduit as electrical service supply running from the building power source to the control console. This conduit is shown underground, alternatively it may be overhead depending on customer preference. Provide a lockout/tagout electrical disconnect box within sight and as close to the control console as is practical. This electrical supply conduit and disconnect box must be installed according to local electrical code requirements.

NOTE 21
Provide one, 1 inch SCH 40 rigid steel conduit as a compressed air supply. This conduit is shown underground, alternatively it may be brought to the control panel overhead depending on customer preference. If brought overhead, provide flex conduit connecting the terminal end of the conduit to the control console.

NOTE 22
The lift unit requires clean dry compressed air at the pressure and volume shown on the lift unit data table. A filter/lubricator/regulator is supplied with the lift unit for the locking system only. A filter/lubricator/regulator, air dryer and shut-off valve must be provided for the lift unit to operate the optional accessories. The required volume of air shown in the lift unit data table recognizes that not more than one auxiliary air consumer will be used simultaneously.

NOTE 23
All floor requirements are based on a concrete slab that is on grade (supported by soil). Any other type of installation involving a slab not on Grade (e.g., slab supported by piers, second story slab, etc.) must be reviewed and analyzed for suitability by the building architect, at the expense of others.

SURFACE LIFTS ONLY

D-Size

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MOHAWK RESOURCES LTD.

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P-010-B-001
P-010-C-001
P-010-D-001
P-010-E-001
P-010-F-001
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P-010-H-001
P-010-I-001
P-010-J-001
P-010-K-001
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