INSTRUCTION, BATTERY BOX & FRAME INSTALLATION KIT

2-BATTERY BOX KIT

BATTERY BOX ASSEMBLY
P/N 269560-01
QTY. 1

SINGLE FRAME ASSEMBLY
P/N 285720-11
P/N 285720-11G (GALVANIZED)
QTY. 1

3-BATTERY BOX KIT

BATTERY BOX ASSEMBLY
P/N 269950-01
QTY. 1

SINGLE FRAME ASSEMBLY
P/N 287929-01G (GALVANIZED)
QTY. 1

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1. Select holes on top of battery box frame to align mounting brackets flush to cross members. Refer to FIGS. 2-1 & 2-1A for trailers and FIG. 2-2 for trucks. Bolt mounting brackets to battery box frame as shown in FIG. 2-1B. Torque each bolt and lock nut to 85-128 lb-ft.
2. Using mounting brackets as a template, mark and drill holes through cross members (FIG. 3-1). Bolt mounting brackets to cross members as shown in FIGS. 3-2 and 3-2A. Torque bolts and lock nuts to 85-128 lb-ft.

**NOTE:** If welding mounting brackets to cross members, skip instruction 2.
**WARNING**

Recommended practices for welding on steel parts are contained in the current AWS (American Welding Society) D1.1 Structural Welding Code - Steel. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.

**CAUTION**

To prevent pump box components from being damaged by electric current from welding, connect welder grounding cable to the part being welded.

**CAUTION**

Cover battery box with flame-resistant covering before welding pump box frame to vehicle.

3. For galvanized frame, read warning decal shown in FIGS. 4-1 and FIGS. 4-1A before welding. Weld each bracket to cross members as shown in FIGS. 4-1 and 4-1B. Weld top of bracket if accessible.

**WARNING**

Welding on galvanized parts gives off especially hazardous fumes.
- Remove galvanizing from area to weld.
- Provide good ventilation.
- Wear suitable respirator

**WELDING BRACKETS (8 PLACES)**

**FIG. 4-1B**

**CROSS MEMBERS**

**3/16”**

**IF ACCESSIBLE**

**3/16”**

**BRACKET**

**WELDING GALVANIZED, WARNING DECAL**

**FIG. 4-1A**

**BOLTING BATTERY BOX FRAME**

**FIG. 4-1**

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Explosive hydrogen gas from charging batteries can accumulate in battery box if not vented from the box. To prevent hydrogen gas from accumulating, ensure the 3 ventilation holes in battery box are not plugged or covered.

4. Bolt battery box to battery box frame as shown in **FIG. 5-1**. Torque bolts and hex nuts to 50 lb-ft. Ensure ventilation holes are not covered or plugged (FIG. 5-1).
5. Attach battery plate, batteries, battery strap, and j-bolt tie-downs in battery box as shown in FIG. 6-1 (2 Battery Box) and FIG. 7-1 (3 Battery Box). Continue with step 6 to connect electrical cables and 150 amp circuit breaker.

**WARNING**

Remove all rings, watches and jewelry before doing any electrical work.

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BATTERY PLATE
P/N 289870-01

5/16" J-BOLT
P/N 289872-01
(4 PLACES)

GROUND CABLE (REF)

FUSED OR NON-FUSED CABLE (REF)

5/16"-18 LOCK NUT
P/N 903106-10
(4 PLACES)

5/16" FLAT WASHER
P/N 902013-10
(4 PLACES)

J-BOLT ANCHOR POINT
(PART OF BATTERY PLATE, 4 PLACES)

BATTERY STRAP
P/N 289873-01

REFER TO BATTERY BOX

150 AMP CIRCUIT BREAKER

BATTERY PLATE
P/N 289870-01

9/16" LOCK WASHER
P/N 902011-7
(4 PLACES)

BATTERY (REF)
(3 PLACES)

3 BATTERY BOX ASSEMBLY
FIG. 7-1

BATTERY STRAP
P/N 289873-01

5/16" J-BOLT
P/N 289872-01
(4 PLACES)

GROUND CABLE (REF)

FUSED OR NON-FUSED CABLE (REF)

5/16"-18 LOCK NUT
P/N 903106-10
(4 PLACES)

5/16" FLAT WASHER
P/N 902013-10
(4 PLACES)

J-BOLT ANCHOR POINT
(PART OF BATTERY PLATE, 4 PLACES)

BATTERY STRAP
P/N 289873-01

9/16" LOCK WASHER
P/N 902011-7
(4 PLACES)

BATTERY (REF)
(3 PLACES)

3 BATTERY BOX ASSEMBLY
FIG. 7-1

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6. Connect cables as shown in FIG. 8-1 (2 Battery Box) or FIG. 9-1 (3 Battery Box). Refer to Liftgate installation manual for instructions to install additional electrical cables or circuit breaker. Cable P/N 251871-05 (2 gauge 16” long) is included with battery box to set up 24 vdc power if required.

NOTE: • Always connect fused end of power cable to battery positive (+) terminal.
  • To connect charge lines, refer to instructions provided with each charge line kit.
  • MAXON recommends using dielectric grease on all electrical connections.

### 12 VOLT BATTERY CONNECTIONS (2 BATTERY BOX) FIG. 8-1

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>907207-01</td>
<td>CIRCUIT BREAKER, 150 AMP</td>
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<tr>
<td>2</td>
<td>1</td>
<td>269308-12</td>
<td>CABLE ASSEMBLY, 2 GA, RED, 12&quot; LG.</td>
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<tr>
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<td>1</td>
<td>268226-06</td>
<td>CABLE ASSEMBLY, 2 GA, 74&quot; LG.</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>269308-10</td>
<td>CABLE ASSEMBLY, 2 GA, RED, 10&quot; LG.</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>251871-14</td>
<td>CABLE ASSEMBLY, 2 GA, 10&quot; LG. (BLACK)</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>900002-5</td>
<td>PAN HEAD SCREW, 1/4&quot;-20 X 1-1/4&quot; LG.</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td>902013-09</td>
<td>FLAT WASHER, 1/4&quot;</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>901000</td>
<td>LOCK NUT, 1/4&quot;-20</td>
</tr>
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### BATTERY BOX ELECTRICAL PARTS (2 BATTERY BOX) TABLE 8-1
12 VOLT BATTERY CONNECTIONS (3 BATTERY BOX)

**TABLE 9-1**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
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<th>DESCRIPTION</th>
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<td>CIRCUIT BREAKER, 150 AMP</td>
</tr>
<tr>
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<td>1</td>
<td>269308-12</td>
<td>CABLE ASSEMBLY, 2 GA, RED, 12&quot; LG.</td>
</tr>
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<td>1</td>
<td>268226-06</td>
<td>CABLE ASSEMBLY, 2 GA, 74&quot; LG.</td>
</tr>
<tr>
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<td>2</td>
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<td>CABLE ASSEMBLY, 2 GA, RED, 10&quot; LG.</td>
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<td>251871-14</td>
<td>CABLE ASSEMBLY, 2 GA, 10&quot; LG. BLACK</td>
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<td>2</td>
<td>900002-5</td>
<td>PAN HEAD SCREW, 1/4&quot;-20 X 1-1/4&quot; LG.</td>
</tr>
<tr>
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<td>4</td>
<td>902013-09</td>
<td>FLAT WASHER, 1/4&quot;</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>901000</td>
<td>LOCK NUT, 1/4&quot;-20</td>
</tr>
</tbody>
</table>

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BATTERY BOX PARTS (2 BATTERY BOX)
FIG. 10-1

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## BATTERY BOX PARTS (2 BATTERY BOX)
### TABLE 11-1

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
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<td>BATTERY BOX ASSEMBLY</td>
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<td>289854-01</td>
<td>BATTERY BOX (WITH HOLES)</td>
</tr>
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<td>2</td>
<td>4</td>
<td>908022-03</td>
<td>FLEXIBLE PLUG, 5/16&quot;</td>
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<tr>
<td>3</td>
<td>1</td>
<td>908022-08</td>
<td>FLEXIBLE PLUG, 1-1/16&quot;</td>
</tr>
<tr>
<td>4</td>
<td>10</td>
<td>908022-07</td>
<td>FLEXIBLE PLUG, 1/4&quot;</td>
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<td>266428-02</td>
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<td>COVER</td>
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<td>2</td>
<td>908193-01</td>
<td>RUBBER LATCH</td>
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<td>8</td>
<td>2</td>
<td>908194-01</td>
<td>FASTENING KNOB</td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td>285970-01</td>
<td>PLASTIC HINGE ASSEMBLY</td>
</tr>
<tr>
<td>10</td>
<td>8</td>
<td>903715-03</td>
<td>BLIND RIVET, 1/4&quot; X 1/4&quot;-3/8&quot;</td>
</tr>
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<td>11</td>
<td>10</td>
<td>903438-01</td>
<td>WASHER, 1/4&quot;</td>
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<tr>
<td>12</td>
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<tr>
<td>13</td>
<td>2</td>
<td>900719-07</td>
<td>BUTTON HEAD SCREW, 1/4&quot;-20 X 1&quot; LG.</td>
</tr>
<tr>
<td>14</td>
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<tr>
<td>15</td>
<td>5</td>
<td>908022-01</td>
<td>FLEXIBLE PLUG, 1/4&quot;</td>
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BATTERY BOX PARTS (3 BATTERY BOX)  
FIG. 12-1
<table>
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<th>DESCRIPTION</th>
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<td>269950-01</td>
<td>BATTERY BOX ASSEMBLY</td>
</tr>
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<td>1B</td>
<td>2</td>
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<td>FASTENING KNOB</td>
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<tr>
<td>1D</td>
<td>2</td>
<td>285970-01</td>
<td>PLASTIC HINGE ASSEMBLY</td>
</tr>
<tr>
<td>1E</td>
<td>8</td>
<td>903715-04</td>
<td>BLIND RIVET, 1/4&quot; X 3/8&quot;-1/2&quot;</td>
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</tr>
<tr>
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<td>BUTTON HEAD SCREW, 1/4&quot;-20 X 1&quot; LG.</td>
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<td>LOCK NUT, 1/4&quot;-20, NYLON</td>
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<td>4</td>
<td>908022-03</td>
<td>FLEXIBLE PLUG, 3/8&quot;</td>
</tr>
<tr>
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<td>1</td>
<td>908022-08</td>
<td>FLEXIBLE PLUG, 1-1/16&quot;</td>
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<td>908022-07</td>
<td>FLEXIBLE PLUG, 1/4&quot;</td>
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<tr>
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<td>5</td>
<td>266428-04</td>
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<td>FLEXIBLE PLUG, 9/16&quot;</td>
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BATTERY BOX PARTS (3 BATTERY BOX)
TABLE 13-1
### SINGLE FRAME ASSEMBLY PARTS (2 BATTERY BOX)

**FIG. 14-1**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
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<th>DESCRIPTION</th>
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<td>SINGLE FRAME WELDMENT</td>
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<td>285724-11G</td>
<td>SINGLE FRAME WELDMENT (GALVANIZED)</td>
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<td>HEX HEAD CAP SCREW, 3/8&quot;-16 X 1-3/4&quot; LG, GR8</td>
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<td>4</td>
<td>902011-4</td>
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<tr>
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<td>903409-03</td>
<td>FENDER WASHER, 13/32&quot;</td>
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<td>4</td>
<td>901002</td>
<td>LOCK NUT, 3/8&quot;-16</td>
</tr>
</tbody>
</table>

**SINGLE FRAME ASSEMBLY PARTS (2 BATTERY BOX)**

**TABLE 14-1**

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### SINGLE UPPER FRAME KIT (2 BATTERY BOX)

**FIG. 15-1**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
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<th>DESCRIPTION</th>
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<td>SINGLE UPPER FRAME WELDMENT</td>
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<tr>
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<td>285726-01G</td>
<td>SINGLE UPPER FRAME WELDMENT (GALVANIZED)</td>
</tr>
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<td>24</td>
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<td>FENDER WASHER, 1/2&quot;</td>
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<tr>
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<td>12</td>
<td>902011-7</td>
<td>LOCK WASHER, 9/16&quot;</td>
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<td>12</td>
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<td>MOUNTING BRACKET</td>
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<td>1</td>
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<td>WARNING DECAL, WELD ON GALVANIZED</td>
</tr>
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</table>

**SINGLE UPPER FRAME KIT (2 BATTERY BOX)**

**TABLE 15-1**

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SINGLE FRAME ASSEMBLY PARTS (3 BATTERY BOX)

FIG. 16-1
### SINGLE FRAME ASSEMBLY PARTS (3 BATTERY BOX)

**TABLE 17-1**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
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<th>DESCRIPTION</th>
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