STB Built Products 1-17

Toll Free (800) 888-7898
www.stbinc.com
Fax (530) 823-2971
1666 Auburn Ravine Rd, Auburn, CA 95603

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Fax (530) 823-2971
1666 Auburn Ravine Rd, Auburn, CA 95603
PHASING VOLTMETER (2 IN 1)  Model #50101-G

Unit comes in a rugged, foam-lined, carrying case that includes a shepherd’s hook, probe tip, 25 foot coiled cable, instructions, gray test box and a battery.

Features:
- Line to ground voltage readings are accurate within 3% at full scale
- Versatile, lightweight and easy to use portable meters each have a single range
- Five position selector switch is used to select voltage sensing on capacitance tap, on direct line and phasing on capacitance tap or direct line, or a battery test position
- No exposed conducting terminals or meter circuitry
- Locking cable connector provides positive contact

Uses:
- Meter can be used for voltage detection and phasing at capacitance test points or for voltage detection and phasing on bare energized conductors (overhead & underground)
- Maximum operating temperature range: -20°F to +165°F (-30°C to +75°C)
- Scale can be easily read from 8 to 10 feet away when mounted on a suitable hot stick
- Probes can be separated to be used as a voltage sensor or capacitance sensor, making it two units in one

No proof tester battery or capacitance test point measurement for voltage ratings of 69kV or above.

<table>
<thead>
<tr>
<th>MODEL#</th>
<th>DESCRIPTION</th>
<th>WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50101-G-09</td>
<td>0-5kV</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>50101-G-29</td>
<td>0-5kV w/Hot Sticks</td>
<td>21 lbs.</td>
</tr>
<tr>
<td>50101-G-17</td>
<td>0-5kV w/ 2 Bushing Adapters &amp; Hot Sticks</td>
<td>23 lbs.</td>
</tr>
<tr>
<td>50101-G-02</td>
<td>0-25kV</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>50101-G-03</td>
<td>0-25kV w/Hot Sticks</td>
<td>21 lbs.</td>
</tr>
<tr>
<td>50101-G-10</td>
<td>0-25kV w/2 Bushing Adapters</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>50101-G-11</td>
<td>0-25kV w/ 2 Bushing Adapters &amp; Hot Sticks</td>
<td>23 lbs.</td>
</tr>
<tr>
<td>50101-G-05</td>
<td>0-35kV</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>50101-G-06</td>
<td>0-35kV w/Hot Sticks</td>
<td>21 lbs.</td>
</tr>
<tr>
<td>50101-G-12</td>
<td>0-35kV w/ 2 Bushing Adapters</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>50101-G-13</td>
<td>0-35kV w/ 2 Bushing Adapters &amp; Hot Sticks</td>
<td>23 lbs.</td>
</tr>
<tr>
<td>50101-G-16</td>
<td>0-50kV (36-50kV)</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>50101-G-19</td>
<td>0-50kV w/Hot sticks</td>
<td>21 lbs.</td>
</tr>
<tr>
<td>50101-G-14</td>
<td>0-69kV</td>
<td>15 lbs.</td>
</tr>
<tr>
<td>50101-G-15</td>
<td>0-69kV w/Hot sticks</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>50101-G-24</td>
<td>0-75kV</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>50101-G-25</td>
<td>0-75kV w/Hot sticks</td>
<td>21 lbs.</td>
</tr>
<tr>
<td>50101-G-20</td>
<td>0-120kV</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>50101-G-22</td>
<td>0-130kV</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>50101-G-28</td>
<td>0-140kV</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>50101-G-34</td>
<td>0-140kV w/Hot sticks</td>
<td>21 lbs.</td>
</tr>
<tr>
<td>50101-G-27</td>
<td>0-160kV</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>50101-G-33</td>
<td>0-160kV w/Hot sticks</td>
<td>21 lbs.</td>
</tr>
<tr>
<td>50101-G-37</td>
<td>0-230kV</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>50101-G-39</td>
<td>0-300kV</td>
<td>18 lbs.</td>
</tr>
</tbody>
</table>

Manufacturer recommends test and calibration every 12 months.

STB unit replaces three separate units manufactured by competitors - line phasing, capacitance phasing and line to ground.
9-36KV PHASING VOLTMETER Model #50101-G

**Features:**
- Consists of two resistance elements connected in series with an indicating meter in the series connection
- Voltmeter has two ranges, 9kV and 36kV, with a range selector switch mounted on the back of the meter housing
- Scale markings have a minimum of divisions and figures are large enough to be read up to ten feet away when mounted on a suitable hot stick
- Lighted dial available upon request
- Also available in digital

**Uses:**
The 9-36kV Phasing Voltmeter is designed to provide a safe and convenient testing means for paralleling three-phase high voltage circuits. Typical uses include line-to-ground voltage measurements and phase for paralleling operations

- Input impedance: approximately 72 megohms
- Maximum operating temperature range: -20°F to +165°F (-30°C to +75°C)

Manufacturer recommends test and calibration every 12 months.

9-36KV PHASING VOLTMETER WITH FULL SET OF HOT STICKS Model #50101-G

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>DESCRIPTION</th>
<th>WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50101-G-07</td>
<td>9-36kV Phasing Voltmeter</td>
<td>15 lbs.</td>
</tr>
<tr>
<td>50101-G-08</td>
<td>9-36kV Phasing Voltmeter with Hot Sticks</td>
<td>18 lbs.</td>
</tr>
</tbody>
</table>

*Large carrying case included to accommodate hot sticks when Model#50101-G-08 is ordered.

The 9-36kV Phasing Voltmeter comes in a rugged, foam-lined, carrying case that includes: proof tester, battery, shepherd’s hook, probe, and a ten foot cable.
# AC VOLTMETER

**Model #50103-G**

<table>
<thead>
<tr>
<th>MODEL#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>50103-G-07</td>
<td>0-50 kV AC/DC Voltmeter</td>
</tr>
<tr>
<td>50103-G-10</td>
<td>0-50 kV AC/DC Voltmeter with Hot Sticks</td>
</tr>
<tr>
<td>50103-G-01</td>
<td>5-15kV AC/DC Voltmeter with Cable and Clamp</td>
</tr>
<tr>
<td>50103-G-02</td>
<td>5-15kV AC/DC Voltmeter with Hot Sticks, Cable and Clamp</td>
</tr>
<tr>
<td>50103-G-05</td>
<td>15-25kV AC/DC Voltmeter</td>
</tr>
<tr>
<td>50103-G-06</td>
<td>15-25 AC/DC Voltmeter with Hot Sticks</td>
</tr>
<tr>
<td>50103-G-08</td>
<td>15-50kV AC/DC Voltmeter</td>
</tr>
<tr>
<td>50103-G-11</td>
<td>15-50kV AC/DC Voltmeter with Cable and Clamp</td>
</tr>
<tr>
<td>50103-G-14</td>
<td>15-50kV AC/DC Voltmeter with Hot Sticks, Cable and Clamp</td>
</tr>
</tbody>
</table>

**Features:**
- Maximum operating temperature range: -20°F to +165°F (-30°C to +75°C)
- Input impedance: approximately 36 megohms
- Two-position toggle switch
- Locking cable connector provides positive electrical contact
- Includes test probe, indicating head, 20’ long ground lead, proof tester and battery all housed in a foam-lined, rugged carrying case
- Accuracy of +/- 3% Full Scale

**Uses:**
- Typically used to measure voltage between ground and the line or bus connector
- Portable instrument used for measuring AC voltages quickly and easily
- Resistive type voltmeter developed for medium range voltage measurements in the field

Manufacturer recommends test and calibration every 12 months.
DC VOLTMETER

Model #50100-G

Features:
- Lightweight, easy to use, hand-held meter
- DC voltage meter is scaled 0-2000 VDC, in 100 volt increments
- Will provide a 1/2 scale deflection when applied across 1000 VDC
- Maximum current flow through the instrument at 1000 VDC is 0.05 ampers
- Input impedance: approximately 24 megohm
- Maximum operating temperature range: -20°F to +165°F (-30°C to +75°C)

Uses:
- May be used to determine whether the third rail of a transit system is energized
- Operators need not concern themselves with polarity, as the unit is not sensitive in that regard

Manufacturer recommends test and calibration every 12 months.

<table>
<thead>
<tr>
<th>MODEL#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>50100-G-02</td>
<td>0-2000 VDC Voltage Meter</td>
</tr>
<tr>
<td>50100-G-03</td>
<td>0-2000 VDC Voltage Meter with Hot Sticks</td>
</tr>
<tr>
<td>50100-G-04</td>
<td>0-2000 VDC Voltmeter with Extension Probe and Ground Lead</td>
</tr>
<tr>
<td>50100-G-05</td>
<td>0-2000 DC with Hot Sticks and Lighted Dial</td>
</tr>
<tr>
<td>50100-G-06</td>
<td>0-2000 DC Voltage Meter with Lighted Dial</td>
</tr>
</tbody>
</table>
**VOLTAGE SENSOR**

**Model #50102-G**

**Features & Options:**

- Detects presence of voltage or capacitance on overhead and underground cabling or on switchgear and MCC Panels
- Low sensitivity range and a high capability range
- Range selector switch is conveniently located in a protected area on the back of the meter housing
- Three degrees of sensitivity - capacitance and two direct line contacts
- Capacitance test will produce a minimum 1/3 scale deflection at 300 volts
- Contact with the capacitance test point of a separable elbow connector carrying 25kV will also produce a 2/3 scale deflection
- Higher voltages can be checked when unit is placed on "Direct Line"
- Shielded tester reads only the contacted test point - no stray fields will be indicated when direct contact is used
- Maximum operating temperature range: -20°F to 140°F (-30°C to 60°C)
- Ready to attach to hot stick or another type of connector (ie universal)
- Proof tester included

**MODEL# DESCRIPITION WT.**

<table>
<thead>
<tr>
<th>MODEL#</th>
<th>DESCRIPTION</th>
<th>WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50102-G-07</td>
<td>Voltage Sensor (5kV)</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>50102-G-03</td>
<td>Voltage Sensor (25kV)</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>50102-G-04</td>
<td>Voltage Sensor (25kV) with Hot Sticks</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>50102-G-08</td>
<td>Voltage Sensor (0-40kV)</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>50102-G-10</td>
<td>Voltage Sensor (0-40kV) with Hot Sticks</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>50102-G-09</td>
<td>Voltage Sensor (0-50kV)</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>50102-G-11</td>
<td>Voltage Sensor (0-50kV) with Hot Sticks</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>50102-G-15</td>
<td>Voltage Sensor (0-150kV)</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>50102-G-12</td>
<td>Voltage Sensor (0-200kV)</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>50102-G-18</td>
<td>Voltage Sensor (0-200kV) with Hot Sticks</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>50102-G-16</td>
<td>Voltage Sensor (0-300kV)</td>
<td>11 lbs.</td>
</tr>
</tbody>
</table>

*No proof tester battery or capacitance test point measurement for voltage ratings of 150kV or above.*

Manufacturer recommends test and calibration every 12 months.
PHASE ROTATION INDICATOR

Model #50109-G-05A

The new phase rotation indicator model #50109-G-05A has replaced the phase rotation meter model #50109-D-01.

- Tests 220v - 800v
- New, modern design
- Easy-to-grip handle
- Highly durable housing
- Soft carrying case included

<table>
<thead>
<tr>
<th>MODEL#</th>
<th>DESCRIPTION</th>
<th>WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50109-G-05A</td>
<td>Phase Rotation Indicator (220v-800v) soft case included</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>50109-G-DX2</td>
<td>Phase Rotation Indicator DX2 (5kV) hard carrying case included</td>
<td>14 lbs.</td>
</tr>
</tbody>
</table>

2 Units in 1!

- Module A snaps into Module B to enable the meter to test up to 5kV (4160 systems)
- Module A may be used separately to read 220v -800v
- Highly durable and easy to service
- Custom cut, foam lined, heavy duty carrying case included
STB’s Ground Fault Detectors may be conveniently operated with one hand and are ideal for preventative maintenance. Ground Fault Detectors indicate ground faults and electrical leakage while equipment is in operation.

Features:
- Measures leakage current directly and locates faults while preventing down time
- Excellent for checking leakage in splices without load interruption
- Operates on a single cable or bundle
- Clamps easily onto any size conductor (select Jaw opening: 2.5”, 3.5”, 4.5”, 6” and 9”)
- Maximum operating temperature range: -5°F to 150°F (-20°C to +65°C)
- Attach to hot stick with a clamp-on adapter installed by STB (additional option)

Manufacturer recommends test and calibration every 12 months.
GROUND FAULT DETECTOR WITH HOT STICK ATTACHMENT

STB’s Ground Fault Detectors may be conveniently operated with one hand and are ideal for preventative maintenance. Ground Fault Detectors indicate ground faults and electrical leakage while equipment is in operation.

**Features:**

- Measures leakage current directly, and locates faults while preventing down time
- Excellent for checking leakage in splices without load interruption
- Operates on a single cable or bundle
- Clamps easily onto any size conductor (select Jaw opening: 2.5", 3.5", 4.5", 6" and 9")
- Maximum operating temperature range: -5°F to 150°F (-20°C to +65°C)
- Handle attached
- Rope attached

*Must be installed at time of manufacturing. Cannot be added after market.*

<table>
<thead>
<tr>
<th>MODEL#</th>
<th>DESCRIPTION</th>
<th>JAW SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>50107-G-02</td>
<td>1/2/5/10/20 Short Amps</td>
<td>2.5&quot;</td>
</tr>
<tr>
<td>50107-G-01</td>
<td>1/2/5/10/20/50 Amps</td>
<td>2.5&quot;</td>
</tr>
<tr>
<td>50107-G-04</td>
<td>1/2/5/10/20 Short Amps</td>
<td>3.5&quot;</td>
</tr>
<tr>
<td>50107-G-03</td>
<td>1/2/5/10/20/50 Amps</td>
<td>3.5&quot;</td>
</tr>
<tr>
<td>50107-G-06</td>
<td>1/2/5/10/20 Short Amps</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>50107-G-05</td>
<td>1/2/5/10/20/50 Amps</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>50107-G-08</td>
<td>1/2/5/10/20 Short Amps</td>
<td>6.0&quot;</td>
</tr>
<tr>
<td>50107-G-07</td>
<td>1/2/5/10/20/50 Amps</td>
<td>6.0&quot;</td>
</tr>
<tr>
<td>50107-G-10</td>
<td>1/2/5/10/20 Short Amps</td>
<td>9.0&quot;</td>
</tr>
<tr>
<td>50107-G-09</td>
<td>1/2/5/10/20/50 Amps</td>
<td>9.0&quot;</td>
</tr>
</tbody>
</table>

Manufacturer recommends test and calibration every 12 months.
AC CLAMP-ON AMMETER

Features:
- Accurate, well damped movement
- Easily read multi scale
- Positive, convenient selector switch
- Insulated for 750-volt service, bare handed
- Safety trigger is designed for glove or bare hand use
- May be used on a 4160 with suitable gloves
- Can be hung on conductor, leaving operator’s hands free
- Rugged, foam-lined carrying case included
- Accuracy is +/- 3% FS
- 500 Amp maximum continuous duty
- Maximum operating temperature range: -5°F to +150°F (-20°C to +65°C)

Options:
- Six ranges custom designed for customer
- Choice of 2 ½”, 3 ½”, 4 ½”, or 6” jaw openings
- May be attached to hot stick with a clamp-on adapter to extend voltage level to 60kV or more

Manufacturer recommends test and calibration every 12 months.

<table>
<thead>
<tr>
<th>MODEL#</th>
<th>DESCRIPTION</th>
<th>JAW SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>50105-G-10</td>
<td>10/25/50/100/250/500 Amps</td>
<td>2.5</td>
</tr>
<tr>
<td>50105-G-11</td>
<td>10/25/50/100/250/500 Amps</td>
<td>3.5</td>
</tr>
<tr>
<td>50105-G-12</td>
<td>10/25/50/100/250/500 Amps</td>
<td>4.5</td>
</tr>
<tr>
<td>50105-G-09</td>
<td>10/25/50/100/250/500 Amps</td>
<td>6.0</td>
</tr>
<tr>
<td>50105-G-02</td>
<td>10/25/100/250/500/1000 Amps</td>
<td>2.5</td>
</tr>
<tr>
<td>50105-G-01</td>
<td>10/25/100/250/500/1000 Amps</td>
<td>3.5</td>
</tr>
<tr>
<td>50105-G-03</td>
<td>10/25/100/250/500/1000 Amps</td>
<td>4.5</td>
</tr>
<tr>
<td>50105-G-04</td>
<td>10/25/100/250/500/1000 Amps</td>
<td>6.0</td>
</tr>
<tr>
<td>50105-G-04k</td>
<td>10/25/100/250/500/1000 Amps w/ Hot Stick Adapter</td>
<td>6.0</td>
</tr>
<tr>
<td>50105-G-05</td>
<td>10/50/100/250/500/2000 Amps</td>
<td>2.5</td>
</tr>
<tr>
<td>50105-G-06</td>
<td>10/50/100/250/500/2000 Amps</td>
<td>3.5</td>
</tr>
<tr>
<td>50105-G-07</td>
<td>10/50/100/250/500/2000 Amps</td>
<td>4.5</td>
</tr>
<tr>
<td>50105-G-08</td>
<td>10/50/100/250/500/2000 Amps</td>
<td>6.0</td>
</tr>
<tr>
<td>50105-G-14</td>
<td>50/100/250/500/1000/2000 Amps</td>
<td>2.5</td>
</tr>
<tr>
<td>50105-G-15</td>
<td>50/100/250/500/1000/2000 Amps</td>
<td>3.5</td>
</tr>
<tr>
<td>50105-G-17</td>
<td>50/100/250/500/1000/2000 Amps</td>
<td>4.5</td>
</tr>
<tr>
<td>50105-G-16</td>
<td>50/100/250/500/1000/2000 Amps</td>
<td>6.0</td>
</tr>
</tbody>
</table>
STB MANUFACTURED HOT STICKS

Model #50118-G

**Features:**

- All STB Hot Sticks are made to order in sizes from 1’ - 12’
- STB manufactures the 17” sticks that fit into the STB carrying case and attach to STB units
- Three sticks screwed together and attached to one of our units provides the worker approximately 6’ of clearance from the test point
- Choice of adapters: quick change or universal
- STB quick change adapters are assembled as a cap style for our exclusive insert which creates a perfectly flush, matted smooth surface when connecting end to end creating strength and stability
- Meets specifications of Spec. MIL-1-16103
- Order a half or full set of hot sticks alone or as part of an STB unit package
- Large case is standard when hot sticks are purchased

<table>
<thead>
<tr>
<th>MODEL#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>50118-G-02</td>
<td>1/2 set of hot sticks (3) 2 males, 1 female</td>
</tr>
<tr>
<td>50118-G-10</td>
<td>Full set of hot sticks (6) 4 males, 2 females</td>
</tr>
</tbody>
</table>

Manufacturer recommends test and calibration every 12 months. If there are any visual signs of damage, do not use, and have tested right away.
DRAIN TOOL

Model #50128-G-01

Uses:
The STB Drain Tool is designed to drain the voltage capacitiated lines or other voltage retaining sources after the lines have been de-energized. The lines should be checked with a voltage detector. Afterward, the Drain Tool is used to make sure the voltage has been completely drained off. It was not designed for continuous use and should not be left on lines when they are energized. Always wear the proper protective insulated gloves while using this unit and when working on or around high voltage.

Manufacturer recommends test and calibration every 12 months.

DRAIN TOOL WITH RESISTOR

Model #50128-G-02

Features:
- STB Drain Tool is sturdy, lightweight and easy to use
- Approximately 28 inches in length
- Ground cable length can be customized
- This unit has a resistor attached for extra safety
- Designed to drain the voltage capacitiated lines or other voltage retaining sources after the lines have been de-energized
- Lines should be checked with a voltage detector after drain tool has been used
- Not designed for continuous use and should not be left on lines when they are energized
GROUND CABLES & CLUSTERS

STB Builds And Tests Ground Cables & Clusters.

<table>
<thead>
<tr>
<th>ASTM GRADE</th>
<th>15 CYCLE (KA)</th>
<th>30 CYCLE (KA)</th>
<th>CABLE SIZE COPPER</th>
<th>CONTINUOUS CURRENT RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>14</td>
<td>10</td>
<td>#2</td>
<td>200</td>
</tr>
<tr>
<td>2</td>
<td>21</td>
<td>15</td>
<td>1/0</td>
<td>250</td>
</tr>
<tr>
<td>3</td>
<td>27</td>
<td>20</td>
<td>2/0</td>
<td>300</td>
</tr>
<tr>
<td>4</td>
<td>34</td>
<td>25</td>
<td>3/0</td>
<td>350</td>
</tr>
<tr>
<td>5</td>
<td>43</td>
<td>20</td>
<td>4/0</td>
<td>400</td>
</tr>
</tbody>
</table>

*Cable size is dependent on the short circuit current capacity of the system being grounded.

**CHOOSE YOUR CABLE:** STB stocks clear and yellow cable.

The transparent flexible thermoplastic (PVC or silicone) jacketed cable allows easy inspection for strand breakage. The flexibility decreases with low temperatures. The minimum recommended service temperature is 0°F per ASTM F 855, Type III requirements.

Grounding Cables are made with extra flexible strand of soft drawn #30 AWG (0.01”). STB carries the clear or yellow jacket for building grounding equipment on site.

**CARRYING CASE FOR GROUNDS:** Sold separately.
**STB PRODUCTS**

**Serrated Jaw**

- **Body**: C-Clamp, Snap-On (*Duck Bill type*) or Tower & Flat-Face, STB stocks the C-Clamp and Snap-On Duck Bill
- **Main line range, maximum and minimum**
- **Jaw Description**: serrated or smooth
- **“T” handle or grip all**
- **Terminal**: threaded or pin
- **Material**: aluminum or bronze

**Smooth Jaw**

- **Body**: C-Clamp, Snap-On (*Duck Bill type*) or Tower & Flat-Face, STB stocks the C-Clamp and Snap-On Duck Bill
- **Main line range, maximum and minimum**
- **Jaw Description**: serrated or smooth
- **“T” handle or grip all**
- **Terminal**: threaded or pin
- **Material**: aluminum or bronze

---

**CHOOSE YOUR FERRULES:**

Attaching the clamp to the grounding cable requires the use of a ferrule. Ferrules are compressed on the strands of the cable to provide a low resistance permanent connection. The size of the ferrule is determined by the size of the cable. Ferrules are available in aluminum or plated copper. Plated copper ferrules can be used with either aluminum or bronze clamps. Aluminum ferrules can be used with aluminum clamps only. Two ferrules are required for each assembly therefore they are sold in pairs. Ferrules are manufactured to the specifications of ASTM F 855.  *STB stocks tin-plated copper, unshrouded ferrules.*

- **Shrouded or unshrouded?**
  Shrouded ferrules are compressed on both the conductor and the insulating jacket of the high voltage EPR cable to reduce bending stress. Shrouded ferrules are designed to be used on glove installed high voltage jumpers.

- **Threaded or plain plugged?**
  Ferrules are manufactured of 99.5% pure copper with industry standard 5/8” - 11 NC threads. Ferrules are topped with a brass hex jam nut and toothed stainless steel lock washer. Ferrule sold in an assembled jumper or temporary grounding set.

**CLEAR HEAT SHRINK**

- Provides positive stress relief of grounding cables at their terminations
- Clear heat shrink allows visual inspection of cable strands and termination
- Heat shrink materials provides a barrier to resist moisture and corrosion at the termination

*Many ferrules are available for different terminal types: bolted, threaded, compression-bolted, and factory installed ferrules with heat shrink and threaded with heat shrink.*

**CHOOSE YOUR CLAMPS:**

The clamps can be identical to each other or different depending on the needs of the user. Ground clamps are sold separately and are offered in a wide variety including C-Clamps, Flat Jaw Clamps, Socket Clamps, Duck Bill Clamps and Specialty Clamps for unique situations. Clamps are offered in either bronze or aluminum alloys and are manufactured to meet the current specifications of ASTM F 855.

Choose your style of Clamp: **ASTM designations for Type, Class and Grade**
1. **Clamps** - ASTM designations for Type, Class, and Grade

2. **Ferrules** - Copper or aluminum, plain or threaded, STB stocks copper threaded ferrules

3. **Cable** - Length required to reach application distances; if building cluster, lead length and leg lengths may be different
   - **ASTM Type I** - with black or yellow elastomer jackets for temperature range: 
     - -40° F (-40° C) through +194° F (+90° C)
   - **ASTM Type III** - with clear thermoplastic jacket for temperature range: 
     - +14° F (-10° C) through +140° F (+60° C) should be used only in well-ventilated areas

4. **Support Stud** - This option recommended on only one clamp to help control lifting the set to the first clamp attachment point

5. **Shrink Tubing** - Recommended for stress relief and inspection of cable between ferrule and jacket

---

*Pole Bands are available on single point application*
### ACCESSORIES

The following accessories come standard with all volt meters and phasing sets. They are also options for other models of voltage testers:

#### STANDARD 3” SHEPHERD’S HOOK
Model #30100-G-01  
Also available in 2.25” and 2.5”

#### PROBE TIP
Model # 30100-G-02  
Standard is 3.5”

### ADAPTERS (EACH SOLD SEPARATELY)

- **PLASTIC GRIP-ALL UNIVERSAL ADAPTER**  
  Model #10101-P-02  
  - Grip-all provides grip when needed with hot sticks  
  - Can be attached to hot sticks with any universal quick change adapter

- **UNIVERSAL GRIP ADAPTER (ALUMINUM)**  
  Model #10101-P-03  
  - Can be attached to hot sticks with any quick change adapter

- **SHOT GUN ADAPTER**  
  Model #30142-P-01

### ADAPTERS USED FOR UNDERGROUND BUSHINGS (EACH SOLD SEPARATELY)

- **REGULAR BUSHING ADAPTERS**  
  Model #50111-G-01

- **RUBBER SIDED BUSHING ADAPTER**  
  Model #50111-G-03
COILED CABLE
Model #30109-G-01
Twenty-five foot coiled cable comes standard with most phasing sets

9-36 PHASING CABLE
Model #30109-G-03
Ten foot clear cable comes standard with 9-36kV Phasing Voltmeter

LARGE TOOL BOX
Model #10263-P-04

Items Shown:
- Meter and phasing probe
- Full set of hot sticks
- Coiled cable
- Two rubber bushing adapters
- Two regular bushing adapters
two universal aluminum adapters
- Two shot gun adapters
- Shepherd’s hook and probe tip
- Hot stick wipes
- Meter instructions

Everything shown can fit into this heavy-duty, foam-lined carrying case!
- Case may be purchased alone, or it comes standard when a phasing set with hot sticks is ordered
- Phasing sets will also include cable, shepherd’s hook and probe and instructions
- Phasing sets without hot sticks come in a smaller case
RUBBER GOODS/
DISTRIBUTION
PROTECTIVE RUBBER EQUIPMENT FOR LINEMEN

<table>
<thead>
<tr>
<th>Class</th>
<th>Proof Voltage AC/DC</th>
<th>Maximum Usage Voltage AD/DC</th>
<th>Label Color/Class Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>2,500/10,000</td>
<td>500/750</td>
<td>Beige</td>
</tr>
<tr>
<td>0</td>
<td>5,000/20,000</td>
<td>1,000/1,500</td>
<td>Red</td>
</tr>
<tr>
<td>1</td>
<td>10,000/40,000</td>
<td>7,500/11,250</td>
<td>White</td>
</tr>
<tr>
<td>2</td>
<td>20,000/50,000</td>
<td>17,000/25,500</td>
<td>Yellow</td>
</tr>
<tr>
<td>3</td>
<td>30,000/60,000</td>
<td>26,500/39,750</td>
<td>Green</td>
</tr>
<tr>
<td>4</td>
<td>40,000/70,000</td>
<td>36,000/54,000</td>
<td>Orange</td>
</tr>
</tbody>
</table>

Rubber insulating gloves and sleeves are available in six ASTM defined voltage classes.

All gloves are electrically tested by STB following ASTM D120/IEC 903 specifications. Glove testing price is $9.75 per pair.

The proper size glove can be determined by measuring the circumference around the palm. Each inch is one full size. Add approximately 1/2" if liners will be worn. For odd values, round to the nearest half size.

R = red; RB = Red in, black out; B = black; BL = blue; BLO = blue in, orange out; Y = Yellow; YB = yellow in, black out; BY = black in, yellow out

Rubber insulating gloves are available in different lengths, cuff styles, colors and sizes. See chart below.

A Straight Cuff is standard on 14", 16", and 18" lengths of class 1 through 4 gloves. A Bell Cuff accommodates heavier cold weather clothing or allows air flow in warm weather. A Contour Cuff is available in the longest 18" glove and is angled to prevent bunching at the elbow.

If the circumference of your palm is 9", you will want to order a size 9 glove

S = Straight Cuff standard for 14" and 16" gloves C = Contour Cuff available in 18" gloves only BC = Bell Cuff not available in sizes 7, 8 or 8H
LEATHER PROTECTORS FOR RUBBER GLOVES

- Leather protector gloves should always be worn over rubber insulating gloves to provide needed protection against abrasions, cuts and punctures.
- ASTM F496 Clearance Standards chart for the minimum distance from the leather protector cuff to the bead of the rubber glove.
- Leather protectors for class 00 and 0 gloves have the option of elastic back or a strap and are 10” long.
- Protectors for class 1, 2, 3, or 4 gloves are offered in 12”, 14” or 15” length and all have an adjustable strap with a non-metallic buckle.

<table>
<thead>
<tr>
<th>Glove Class</th>
<th>Minimum Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>00, 0</td>
<td>½ inch</td>
</tr>
<tr>
<td>1</td>
<td>1 inch</td>
</tr>
<tr>
<td>2</td>
<td>2 inches</td>
</tr>
<tr>
<td>3</td>
<td>3 inches</td>
</tr>
<tr>
<td>4</td>
<td>4 inches</td>
</tr>
</tbody>
</table>

GLOVE AND PROTECTOR STORAGE

Gloves and Protectors should be stored properly in a heavy duty canvas bag.

- GB-LV 12” FOR 11” GLOVES
  - GB-14 15” for 14” Gloves
  - GB-16 18” for 16” Gloves
  - GB-18 20” for 18” Gloves

- PIGGY BACK BAG WILL HOLD A PAIR OF GLOVES AS WELL AS A PAIR OF PROTECTORS
  - GB-PB for 14” and 11” Gloves
  - GB-2426 for 16” and 14” Gloves

- GLOVE BAG WITH GOGGLE CASE.
  - GB114GC for 14” gloves
  - GB116GC for 16” gloves
  - GB118GC for 18” gloves
## DIPPED SLEEVES

Dipped sleeves are manufactured by dipping porcelain forms into liquefied rubber, dried, trimmed, marked and cured.

<table>
<thead>
<tr>
<th>CLASS</th>
<th>STYLE, COLOR</th>
<th>TEST VOLT/ MAX. USE</th>
<th>SIZE REGULAR MODEL #</th>
<th>SIZE LARGE MODEL #</th>
<th>SIZE XL MODEL #</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Dipped, Red/Yellow, Extra Curved</td>
<td>20kV/17kV</td>
<td>S-D2-R-RY-EC</td>
<td>S-D2-L-RY-EC</td>
<td>S-D2-XL-RY-EC</td>
</tr>
<tr>
<td>2</td>
<td>Dipped, Yellow/Red, Straight</td>
<td>20kV/17kV</td>
<td>S-D2-R-YR-ST</td>
<td>S-D2-L-YR-ST</td>
<td>S-D2-XL-YR-EC</td>
</tr>
<tr>
<td>3</td>
<td>Dipped, Red/Yellow, Extra Curved</td>
<td>30kV/26.5kV</td>
<td>S-D3-R-RY-EC</td>
<td>S-D3-L-RY-EC</td>
<td>S-D3-XL-RY-EC</td>
</tr>
<tr>
<td>4</td>
<td>Dipped, Red/Yellow, Extra Curved</td>
<td>40kV/36kV</td>
<td>S-D4-R-RY-EC</td>
<td>S-D4-L-RY-EC</td>
<td>S-D4-XL-RY-EC</td>
</tr>
<tr>
<td>2</td>
<td>Dipped, Yellow, Extra Curved 24” length (short)</td>
<td>20kV/17kV</td>
<td>S-D2-S-Y-EC (small)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Dipped, Red/Yellow, Extra Curved 24” length (short)</td>
<td>30kV/26.5kV</td>
<td>S-D3-S-RY-EC (small)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## MOLDED SLEEVES

Molded sleeves are manufactured by either injection or compression molding methods. Molded sleeves are available in curved arm style only.

<table>
<thead>
<tr>
<th>CLASS</th>
<th>STYLE, COLOR</th>
<th>TEST VOLT/ MAX. USE</th>
<th>SIZE REGULAR MODEL #</th>
<th>SIZE LARGE MODEL #</th>
<th>SIZE XL MODEL #</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Dipped, Red/Yellow, Extra Curved</td>
<td>20kV/17kV</td>
<td>S-D2-R-RY-EC</td>
<td>S-D2-L-RY-EC</td>
<td>S-D2-XL-RY-EC</td>
</tr>
<tr>
<td>2</td>
<td>Molded, Yellow, Curved, Type 1</td>
<td>20kV/17kV</td>
<td>S-2-R-Y</td>
<td>S-2-L-Y</td>
<td>S-2-XL-Y</td>
</tr>
<tr>
<td>3</td>
<td>Molded, Yellow, Curved, Type 1</td>
<td>30kV/26.5</td>
<td>S-3-R-Y</td>
<td>S-3-L-Y</td>
<td>S-3-XL-Y</td>
</tr>
</tbody>
</table>
Along with straps, sleeve buttons and harnesses are required to wear rubber insulating sleeves properly. Four buttons are required per pair of sleeves. **B22 (orange)**, two piece sleeve button, and **B2 (yellow)**, one piece sleeve button.

These are required to wear rubber insulating sleeves properly. Two straps are required per pair of sleeves.

Harnesses are required to wear rubber insulating sleeves properly. One harness is required per pair of sleeves. **Sleeve Harness with 4 pieces (B22 button)**.

Most are 28.5” length for most straight sleeves and feature a D-ring for hanging in trucks or on work belts. Bags feature tapered gussets with wide opening tops for easy insertion.
**BLANKETS**

<table>
<thead>
<tr>
<th>CLASS</th>
<th>SIZE/STYLE</th>
<th>COLOR</th>
<th>TEST VOLT/MAX. USE</th>
<th>MODEL #</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>36” x 36” w/6 eyelets</td>
<td>Black</td>
<td>20kV/17kV</td>
<td>36x36-B</td>
</tr>
<tr>
<td>4</td>
<td>36” x 36” w/6 eyelets</td>
<td>Orange</td>
<td>40kV/36kV</td>
<td>36x36-O</td>
</tr>
<tr>
<td>4</td>
<td>36” x 36” Slotted w/6 eyelets</td>
<td>Orange</td>
<td>40kV/36kV</td>
<td>S-1300</td>
</tr>
<tr>
<td>4</td>
<td>36” x 36” w/Velcro</td>
<td>Orange</td>
<td>40kV/36kV</td>
<td>36x36-OV</td>
</tr>
<tr>
<td>4</td>
<td>18” x 36”</td>
<td>Orange</td>
<td>40kV/36kV</td>
<td>S-186</td>
</tr>
<tr>
<td>4</td>
<td>22” x 22”</td>
<td>Orange</td>
<td>40kV/36kV</td>
<td>S-13</td>
</tr>
<tr>
<td>0</td>
<td>18” x 36” w/ Velcro</td>
<td>Yellow</td>
<td>5kV/1kV</td>
<td>S-1836Y-LV</td>
</tr>
<tr>
<td>0</td>
<td>12” x 36” w/ Velcro</td>
<td>Yellow</td>
<td>5kV/1kV</td>
<td>S-123-LV</td>
</tr>
<tr>
<td>0</td>
<td>12” x 18” w/ Velcro</td>
<td>Maroon</td>
<td>5kV/1kV</td>
<td>S-12x18-RL</td>
</tr>
<tr>
<td>0</td>
<td>12” x 12” w/ Velcro</td>
<td>Yellow</td>
<td>5kV/1kV</td>
<td>S-1212YLV</td>
</tr>
<tr>
<td>0</td>
<td>18” x 18” w/ Velcro</td>
<td>Yellow</td>
<td>5kV/1kV</td>
<td>S-1818Y-LV</td>
</tr>
<tr>
<td>0</td>
<td>36” x 36” w/ Velcro</td>
<td>Yellow</td>
<td>5kV/1kV</td>
<td>36x36-Y-LV</td>
</tr>
<tr>
<td>0</td>
<td>3’ x 30’ Roll Blanket</td>
<td>Brown</td>
<td>2500V/500V</td>
<td>S-RLBOO</td>
</tr>
<tr>
<td>0</td>
<td>3’ x 30’ Roll Blanket</td>
<td>Yellow</td>
<td>5kV/1kV</td>
<td>S-RLBO</td>
</tr>
<tr>
<td>1</td>
<td>3’ x 30’ Roll Blanket</td>
<td>Yellow/Orange</td>
<td>10kV/7.5kV</td>
<td>S-RLB1</td>
</tr>
<tr>
<td>1</td>
<td>3’ x 30’ Roll Blanket</td>
<td>Clear</td>
<td>10kV/7.5kV</td>
<td>S-RLBPVC1</td>
</tr>
<tr>
<td>1</td>
<td>4’ x 50’ Roll Blanket</td>
<td>Clear</td>
<td>10kV/7.5kV</td>
<td>S-RLBPVC1-48</td>
</tr>
</tbody>
</table>

**(B23) BUTTONS** are bright orange polystyrene two way buttons that are inserted into the eyelets for use with a shotgun clamp stick or standard duty switch stick.

**(B1) BUTTONS** are made of yellow plastic and snap through the eyelet with thumb pressure on the large head.

---

**S-MB6 MAGNETIC BLANKET BUTTONS** are designed for use in eyelets of insulating blankets when covering energized portions in hard-to-cover areas like pad mounts, cubicles, switchboards and substations. Four permanent floating magnets are mounted between nickel-plated steel plates. May be applied manually, wearing rubber gloves, or with a shot-gun stick.

**BLANKET CLAMP PIN**

Yellow nylon, 5” (S-Pin)

**BLANKET CLAMP PIN FOR HOT STICK**

Yellow nylon, 5” (S-HS21)

**BLANKET CANISTER**

5” Orange plastic, holds 1-2 blankets (BC-2)

7” Orange plastic, holds 1-4 blankets (BC)

10” Orange plastic, holds 1-6 blankets (BC-6)  
(This is the only canister that has a handle) See photo

---

**WE TEST & DISTRIBUTE ALL RUBBER GOODS**
LINE HOSES AND COVERS

The Salisbury line hose is the most widely used and convenient way of protecting linemen from electrical hazards

- Available in four ASTM D1050 styles: Straight Conventional Class 2 & 3, Connector End Conventional Class 2 & 3, Extended Lip Straight Class 4, Extended Lip Connector End Class 4
- Covers and connectors are made from weather resistant Type II SALCOR®
- Features RIB-GRIP construction to prevent accidental dislodging
- Special covers available for the following applications: Cross arms, cutouts, pin-type insulators (Conventional style, Class 2 & 3), pin-type insulators (SU-Extended Lip style, Class 4), post-type insulators, arresters or cable end caps

*STB meets and exceeds ASTM standards for dielectric testing*
TELESCOPIC FIBERGLASS HOT STICKS

STB supplies, cleans and tests fiberglass utility tools
*Refurbishment of fiberglass also available

SHOTGUN STYLE HOT STICK
- Touch thermoplastic head ferrule
- EZ Grip plastic hand grip
- Wide opening 15/16” stainless steel hook
- Heavy duty rubber end cap

HEAVY DUTY UNIVERSAL SWITCH STICK WITH STANDARD UNIVERSAL SPLINE HEAD
- Foam filled fiberglass
- Standard heads of cast bronze
- 100% tested for OSHA and STM F711

*Other styles of sticks are available as well as accessories

HOT STICK STORAGE BAG
Hot stick storage bags are available in various lengths and colors
ARC FLASH EQUIPMENT

An arc flash is a phenomenon where a flashover of electric current leaves its intended path and travels through the air from one conductor to another or to ground. According to NFPA & IEEE, from 1992 to 2002, over 2,000 workers a year or more than 5 workers a day, were victims of an arc flash.

KITS AVAILABLE:

<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>DESCRIPTION</th>
<th>MODEL #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arc flash face shield and hard hat</td>
<td>10 Cal/cm²</td>
<td>S-AS1000HAT</td>
</tr>
<tr>
<td>Arc flash center balance face shield and hard hat</td>
<td>12 Cal/cm²</td>
<td>S-AS1200HAT</td>
</tr>
<tr>
<td>Coveralls</td>
<td>NSA, 12 Cal/cm²</td>
<td>N-C88UPXX30 2x or 3x avail.</td>
</tr>
<tr>
<td>Hard hat, face shield, coverall no balaclava</td>
<td>NSA, HRC2, 11 Cal/cm²</td>
<td>N-KIT2CV11XX 2x or 3x avail.</td>
</tr>
<tr>
<td>Hood with face shield, hard hat, bibs and jacket</td>
<td>HRC4, 40 Cal/cm²</td>
<td>N-KIT4SCXX 2x or 3x avail.</td>
</tr>
<tr>
<td>Hood with face shield, hard hat, bibs and jacket</td>
<td>NSA, HRC4, 40 Cal/cm²</td>
<td>S-SK40 2x or 3x avail.</td>
</tr>
</tbody>
</table>
OUTDOOR TOOLS: Spoons, Spades, Cant Hooks and More by OshKosh Tool Company, Inc.

10’ AND 12’ MASTER SHOVEL (**WP) WITH ASH HANDLE
- 10” carbon steel blades with boron
- Forged in special straight pattern - heat treated
- Handles contain footage markers to indicate the depth of the hole

10’ AND 12’ MASTER SPOON SHOVEL (**WP) WITH ASH HANDLE
- Carbon steel blades with boron
- Scoop shave to allow cleaning of mud, water and backfill
- Handles contain footage markers to indicate the depth of the hole

FIRE SAFETY EQUIPMENT

WILDFIRE, GALVANIZED METAL FIRE BACKPACK PUMP
Model #DBS-90G
- Durable, heavy-gauge galvanized metal tank
- Shaped to fit comfortably on the back
- Large camlock cap with gasket facilitates simple filling and cleaning
- Measures 15”W x 7”D x 17”H
- Weighs 14lbs (empty), holds 5 gallons
- Replacement parts available

Options
DBS-9092-0 Vehicle mounting brackets, enamel steel base with mounting hardware and hold down strap - Fits all models
DBS-90S Stainless Steel Version

Pulaski Axe 85270 (replacement handles also available)
HONEYWELL IMPACT PRO CONFINED SPACE KIT

Kit Includes:
- Standard Impact case with Impact Pro
- Multi-gas (Oxygen, Methane, LEL combustibles)
- Carbon Monoxide and Hydrogen Sulfide two year sensor cartridge
- Data/charging cradle
- Power supply
- Charter kit and rechargeable batteries
- USB to RS232 data cable
- 10 meter sample tube

Also available: THE ENFORCER provides easy and cost-effective “bump testing” for the Impact range of multi-gas detectors

FIRST AID KIT

Kit Includes:
- Antibiotic Cream
- Absorbent Compress
- Finger & Knuckle Bandages
- Gauze Pads
- Triangle Bandages
- Gauze Bandages
- Extra Large Adhesive Bandages
- Nitrile Gloves
- Burn Cream
- Instant Cold Compress
- Adhesive Tape
- PVP Iodine Wipes
- Antiseptic BZK Towelettes
- Instant Hand Sanitizer
- Sterile Eyewash Solution

STB provides First Aid Kits in all sizes.
SERVICES
SERVICES

CALIBRATION
In-house test and calibration of STB or other manufacturer’s comparable equipment: $75 PER TEST

REPAIRS
In-house repair of STB or other manufacturer’s comparable equipment: $90 PER HOUR + PARTS (One hour minimum).

DIALECTRIC TESTING - Acceptance test of new or used rubber goods:

Rubber Gloves:
1-25: $9.75 per pair
26-49: $9.05 per pair
50+: $8.50 per pair

Blankets:
1-25 of 36”x36”: $9.85 each
26+: $9.25 each
Odd sized blankets: $11.45 each

Rubber Boots:
$17.00 per pair

Miscellaneous:
(rubber sleeves, hoses, connectors, barriers, hoods)
$11.85 each

*Automatic rubber good replacement plan is available upon written request from customer. If an item fails, and customer orders a replacement, they will not be charged for testing the replacement item

Inspection and cleaning of arc flash gear: $25.00 per suit

MISCELLANEOUS TESTING
Hot stick cleaning and testing: $8.00 per foot
Bucket Liner Test: $150.00
Bead Blast/Refurbishment
Gas Detector - Calibration & repair: $65

Ground Cable (single cable) start at $25 each
Ground Cluster: starting at $45.00 each
By-pass jumper (water test): starting at $55.00 each

*QUOTES ARE BASED ON REVIEW OF THE PRODUCTS RECEIVED AT OUR FACILITY. REPAIR SERVICES WILL BEGIN ONCE QUOTE HAS BEEN APPROVED BY CUSTOMER

Other services available: fiberglass refurbishing and reconditioning, utility tool repair and reconditioning such as load break tools, certification and calibration of other test equipment. If repair or testing on site is not available, we will outsource. Quotes will vary depending on work needed.
**OTHER SERVICES AVAILABLE**

**LET STB BE YOUR ONE-STOP-SHOP.**

**GIVE US ALL OF YOUR EQUIPMENT THAT NEEDS CALIBRATION, TESTING AND REPAIRS**

<table>
<thead>
<tr>
<th>Strap hoist repair</th>
<th>Outdoor equipment repair</th>
</tr>
</thead>
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<tr>
<td>Load break tool testing, rebuilding and refurbishing</td>
<td>Calibrate AC/DC High pot testers</td>
</tr>
<tr>
<td>Refurbish fiberglass equipment such as cross-arms, bucket liners and hot sticks</td>
<td>Torque wrench repairs/testing</td>
</tr>
<tr>
<td>Gas detector calibration</td>
<td>Calibrate multi-meters</td>
</tr>
<tr>
<td>Bucket liner repair</td>
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</tbody>
</table>

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