**SUPPLIED BY CUSTOMER**
FOUR 3/8" GRADE 5 BOLTS OR EQUIVALENT STRENGTH FASTENERS AND A SUPPORTING STRUCTURE (NOT SHOWN FOR CLARITY)

**SUPPLIED BY CUSTOMER**
TWO 1/2" SCH 40 OR HEAVIER STEEL PIPE THREADED BOTH ENDS 1/2" NPT.

---

**MOUNTING BRACKETS**
5455 - AH12A
5454 - AH16A
5453 - AH20A
5452 - AH24A

---

**ITEM QTY CCI PART NO DESCRIPTION**

1 2 3085 CONNECTOR, HANGER
2 2 3084 ANGLE, HANGER
3 5 4373 Lockwasher 1/2-Split-SZP
4 5 2840 BOLT 1/2-13UNC x 1 1/4 LONG, HEXAGON HEAD
5 1 4994 BRACKET, SHMK ATTACH ASSY
6 2 3088 ADAPTER, HANGER
7 4 4372 NUT 1/2-13 UNC-H-SZP
8 1 5455 Bracket, Mounting Attachment, AH12A
9 3 2941 WASHER, FLAT 1/2"

---

**TOLERANCE UNLESS NOTED OTHERWISE**

<table>
<thead>
<tr>
<th>ANGULAR</th>
<th>DECIMAL</th>
<th>FRACTIONAL</th>
<th>METRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>± 1/16&quot;</td>
<td>± 0.005</td>
<td>± 1 mm</td>
<td>± 1 mm</td>
</tr>
</tbody>
</table>

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REV: 1

REVISION DESCRIPTION: 1 OF 1

TITLE: MTG Kit, Ruffneck SHMK AH

DWG NO.: 5732 SHEET: 1 OF 1

SYTELINE NO.: 5732

SCALE: NTS

DRN BY: MCARGILL 20 Dec 2007

CHK'D BY: APP'D BY:
**SUPPLIED BY CUSTOMER**
FOUR 3/8", GRADE 5 BOLTS OR EQUIVALENT STRENGTH FASTENERS AND A SUPPORTING STRUCTURE (NOT SHOWN FOR CLARITY)

**SUPPLIED BY CUSTOMER**
TWO 1/2", SCH. 40 OR HEAVIER STEEL PIPE THREADED BOTH ENDS 1/2" NPT.

### TABLE 1. - MOUNTING BRACKET DIMENSIONS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>CCI PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3085</td>
<td>CONNECTOR, HANGER</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>3084</td>
<td>ANGLE, HANGER</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>4373</td>
<td>Lockwasher-1/2-Split-SZP</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>2940</td>
<td>BOLT 1/2-13UNC x 1 1/4LONG, HEXAGON HEAD</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>3093</td>
<td>Lockwasher-5/8-Split-SZP</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>3122</td>
<td>Bolt-5/8-11UNC x 1 1/4g-H-SZP</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>4994</td>
<td>BRACKET, SHMK ATTACH ASSY</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>3088</td>
<td>ADAPTER, HANGER</td>
</tr>
<tr>
<td>9</td>
<td>4</td>
<td>4372</td>
<td>NUT-1/2-13 UNC-H-SZP</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>9675</td>
<td>FX5 BRACKET, 512 MTG ATTACH ASSY</td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td>2941</td>
<td>WASHER, FLAT 1/2&quot;</td>
</tr>
</tbody>
</table>

**SUPPLIED BY CUSTOMER**
TWO 1/2", SCH. 40 OR HEAVIER STEEL PIPE THREADED BOTH ENDS 1/2" NPT.

**SUPPLIED BY CUSTOMER**
FOUR 3/8", GRADE 5 BOLTS OR EQUIVALENT STRENGTH FASTENERS AND A SUPPORTING STRUCTURE (NOT SHOWN FOR CLARITY)

### TABLE 1. - MOUNTING BRACKET DIMENSIONS

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>HEATER BRACKET PART NO.</th>
<th>DIM 'A'</th>
<th>DIM 'B'</th>
<th>DIM 'C'</th>
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<tbody>
<tr>
<td>9733</td>
<td>9675</td>
<td>665.0</td>
<td>695.0</td>
<td>316.0</td>
</tr>
<tr>
<td>9734</td>
<td>9676</td>
<td>564.0</td>
<td>594.0</td>
<td>209.6</td>
</tr>
<tr>
<td>9735</td>
<td>9677</td>
<td>462.0</td>
<td>492.0</td>
<td>152.0</td>
</tr>
</tbody>
</table>

**REV.**

**REVISION DESCRIPTION**

**DATE**

**BY**

**TITLE:** SWIVEL HANGING MTG KIT, RUFFNECK FX5/FE2 HEATER

**DWG NO.:** 9733

**SYTELINE NO.:** -

**SCALE:** NTS

**DRN BY:** MCARGILL

**CHK'D BY:**

**APP'D. BY:**

**07 Dec 2007**

**TOLERANCE UNLESS NOTED OTHERWISE**

- ± 1/2" ANGULAR
- ± 0.005" DECIMAL
- ± 1/16" FRACTIONAL
- ± 1 mm METRIC
**SUPPLIED BY CUSTOMER**
FOUR 3/8", GRADE 5 BOLTS
OR EQUIVALENT STRENGTH
FASTENERS AND A SUPPORTING
STRUCTURE (NOT SHOWN FOR CLARITY)

**SUPPLIED BY CUSTOMER**
TWO 1/2", SCH. 40 OR
HEAVIER STEEL PIPE
THREADED BOTH ENDS
1/2" NPT.

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<tr>
<th>ITEM</th>
<th>QTY</th>
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</tr>
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<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3085</td>
<td>CONNECTOR, HANGER</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>3084</td>
<td>ANGLE, HANGER</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>4373</td>
<td>Lockwasher-1/2-Split-SZP</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>2840</td>
<td>BOLT 1/2-13UNC x 1 1/4LONG, HEXAGON HEAD</td>
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<td>1</td>
<td>3093</td>
<td>Lockwasher-5/8-Split-SZP</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>3122</td>
<td>Bolt-5/8-11UNC x 1 1/4Lg-H-SZP</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>4994</td>
<td>BRACKET, SHMK ATTACH ASSY</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>3088</td>
<td>ADAPTER, HANGER</td>
</tr>
<tr>
<td>9</td>
<td>4</td>
<td>4372</td>
<td>NUT-1/2-13 UNC-H-SZP</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
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<td>Bracket, Mounting Attachment FX412/FE112</td>
</tr>
<tr>
<td>11</td>
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<td>2941</td>
<td>WASHER, FLAT 1/2&quot;</td>
</tr>
</tbody>
</table>

**MOUNTING BRACKETS**
4375 - FX412/FE112
4376 - FX416/FE116
4377 - FX420/FE120

**SUPPLIED BY CUSTOMER**
TWO 1/2", SCH. 40 OR
HEAVIER STEEL PIPE
THREADED BOTH ENDS
1/2" NPT.

**SUPPLIED BY CUSTOMER**
FOUR 3/8", GRADE 5 BOLTS
OR EQUIVALENT STRENGTH
FASTENERS AND A SUPPORTING
STRUCTURE (NOT SHOWN FOR CLARITY)

---

**TOLERANCE UNLESS NOTED OTHERWISE**
- ± 1/32" ANGULAR
- ± 0.005" DECIMAL
- ± 1/16" FRACTIONAL
- ± 1 mm METRIC

---

**REV:**

**REVISION DESCRIPTION**

**DATE**

**BY**

**TITLE:** MTG Kit, Ruffneck SHMK FX4/FE1

**DWG NO.:** 5000

**SYTELINE NO.:** 5000

**SCALE:** NTS

**DRN BY:** MCARGILL

18 Dec 2007

**CHK'D BY:**

**APP'D BY:**
**SUPPLIED BY CUSTOMER**
FOUR 3/8", GRADE 5 BOLTS OR EQUIVALENT STRENGTH FASTENERS AND A SUPPORTING STRUCTURE (NOT SHOWN FOR CLARITY)

**SUPPLIED BY CUSTOMER**
TWG 1/2", SCH. 40 OR HEAVIER STEEL PIPE THREADED BOTH ENDS 1/2" NPT.

**SUPPLIED BY CUSTOMER**
TWO 1/2", SCH. 40 OR HEAVIER STEEL PIPE THREADED BOTH ENDS 1/2" NPT.

**SUPPLIED BY CUSTOMER**
FOUR 3/8", GRADE 5 BOLTS OR EQUIVALENT STRENGTH FASTENERS AND A SUPPORTING STRUCTURE (NOT SHOWN FOR CLARITY)

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<td>NUT-1/2-13 UNC-H-SZP</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>2600</td>
<td>ATTACHMENT ASSY, HP12/16 MTG.</td>
</tr>
</tbody>
</table>

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**MOUNTING BRACKETS**
2600 - FR12, FR16, HP12, HP16
2602 - FR20, FR24, HP20, HP24