Switch Heater
Air Distribution Ducts & Accessories
Parts Catalog
9" Flexible Duct Extension

Flexible Ducts can be used with these duct flanges

Can be used with Original (recessed flange) type ducts with use of adapter

"For 9" x 9" Ducts, Reference HAB 11012-X (10" Dia.)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Compressed Length (as sold)</th>
<th>Expanded Length (18%)</th>
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<td>HAB-11013-8</td>
<td>96&quot;</td>
<td>113 2/7&quot;</td>
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<tr>
<td>HAB-11013-9</td>
<td>108&quot;</td>
<td>127 4/9&quot;</td>
</tr>
<tr>
<td>HAB-11013-10</td>
<td>120&quot;</td>
<td>141 3/5&quot;</td>
</tr>
</tbody>
</table>
Duct Ties
- Pandrol e-clip fastener type
- Safelok fastener type
- Duct Tie Modular Duct Layouts
**DUCT TIE (9 FT)- with Pandrol e-Clip Fastener**

**ducted opening (outlet)**

<table>
<thead>
<tr>
<th>DUCT TIE (9 FT) with Pandrol e-Clip Fastener</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DUCT TIE (6 Outlet Holes, c/w removable end plate)</strong></td>
</tr>
<tr>
<td><strong>DUCT TIE (thru) without Outlet Holes</strong></td>
</tr>
<tr>
<td>This duct suitable for 2nd to 4th track layouts, used as an extension.</td>
</tr>
</tbody>
</table>

**DUCT TIE (e-Clip) for 115# to 119# Rail - Complete with Rail Seat Assy**

| HAB-11000-6-115  Duct Tie with 6 Outlet Holes, c/w removable end plate |
| HAB-11000-0-115  Duct Tie (thru) without Outlet Holes |
| This duct suitable for 2nd to 4th track layouts, used as an extension. |

**DUCT TIE (e-Clip) for 132# to 140# Rail - Complete with Rail Seat Assy**

| HAB-11000-6-132  Duct Tie with 6 Outlet Holes, c/w removable end plate |
| HAB-11000-0-132  Duct Tie (thru) without Outlet Holes |
| This duct suitable for 2nd to 4th track layouts, used as an extension. |

**Typical Duct Tie Installation**

1. Duct Tie (6 Outlet Hole)
2. Flexible Duct - (Lengths vary, see listing)
3. Flexible Nozzles - (Lengths vary, see listing)
4. Modular Duct Layout
5. Throw Rod Modular Duct Layout for switch machines.
### DUCT TIE (9 FT)- with Pandrol e-Clip Fastener

Rail mounting kits with Pandrol e-clip (2 Kits needed per duct tie). Kits contains all components to mount 1 tie plate to duct tie. Comes with insulators, clips & tie plate.

#### HAB-11016-1 Rail Seat Assembly (e-clip) for 115# to 119# Rail

- **HAB-11016-01** (1 per assy.)
  - Tie Plate, 115# to 119# Rail
- **HAB-11005-2** (2 per assy.)
  - Nylon Shim Insulator
  - Used on 115# to 140# rail
- **HAB-11005-1** (2 per assy.)
  - Pandrol e-Clip
  - Used on 115# to 140# rail
- **HAB-11005-115-1** (2 per assy.)
  - Tie Pad 3/16", 115# to 119# Rail

#### HAB-11016-2 Rail Seat Assembly (e-clip) for 132-140# Rail

- **HAB-11016-02** (1 per assy.)
  - Tie Plate, 132# to 140# Rail
- **HAB-11005-2** (2 per assy.)
  - Nylon Shim Insulator
  - Used on 115# to 140# rail
- **HAB-11005-1** (2 per assy.)
  - Pandrol e-Clip
  - Used on 115# to 140# rail
- **HAB-11005-132-1** (2 per assy.)
  - Tie Pad 3/16", 132#-140# Rail

#### Other Components

- **HAB-9335-7**
  - Universal Gasket
- **HAB-11000-007**
  - End Cover Plate for 8’ 6” and 9’Duct Tie
- **HAB-9344-1**
  - Cover Plate, Main Duct Without hardware
- **HAB-11002-2**
  - Insulating Plate (optional)
- **TR-5066-001**
  - Screw, Hex 7/8-9”x 2”
- **TR-5066-002**
  - Lock Washer 7/8”
- **HD-7571-14**
  - Hex head bolt 1/2-13 x 1-3/4
- **HAB-11017-08**
  - Split Lock Washer 1/2”
- **HD-7575-SS**
  - Stainless Steel Nut, 1/2-13,
**DUCT TIE (9 FT)- with Safelok Fastener**

**DUCT TIE (Safelok) for 115# to 119# Rail - Complete with Rail Seat Assy**

<table>
<thead>
<tr>
<th>HAB-11060-6-115</th>
<th>Duct Tie with 6 Outlet Holes, c/w removable end plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAB-11060-0-115</td>
<td>Duct Tie (thru) without Outlet Holes</td>
</tr>
<tr>
<td></td>
<td>This duct suitable for 2nd to 4th track layouts, used as an extension.</td>
</tr>
</tbody>
</table>

**DUCT TIE (Safelok) for 132# to 140# Rail - Complete with Rail Seat Assy**

<table>
<thead>
<tr>
<th>HAB-11060-6-132</th>
<th>Duct Tie with 6 Outlet Holes, c/w removable end plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAB-11060-0-132</td>
<td>Duct Tie (thru) without Outlet Holes</td>
</tr>
<tr>
<td></td>
<td>This duct suitable for 2nd to 4th track layouts, used as an extension.</td>
</tr>
</tbody>
</table>

**Typical Duct Tie Installation**

1. Duct Tie (6 Outlet Hole)
2. Flexible Duct - (Lengths vary, see listing)
3. Flexible Nozzles (Lengths vary, see listing)
4. Modular Duct Layout
5. Throw Rod Modular Duct Layout for switch machines.

*Must be used with flexible duct (type HAB-11013[ ] ) see listing for available lengths.
**Flexible Nozzles recommended due to tie ‘pumping’ action
***All duct ties are equipped with expanded metal (mesh) on 3 sides.

**Mounting Hole Layout**

- Ø 6 5/16" HOLE PATTERN
- Ø 5 3/16" OUTLET
- 5/16-18 Threaded (4)
- DUCT OPENING (OUTLET)
- 8 3/4"
- 10 3/4"

**DUCT TIE (Safelok) for 115# to 119# Rail - Complete with Rail Seat Assy**

<table>
<thead>
<tr>
<th>HAB-11060-6-115</th>
<th>Duct Tie with 6 Outlet Holes, c/w removable end plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAB-11060-0-115</td>
<td>Duct Tie (thru) without Outlet Holes</td>
</tr>
<tr>
<td></td>
<td>This duct suitable for 2nd to 4th track layouts, used as an extension.</td>
</tr>
</tbody>
</table>

**Typical Duct Tie Installation**

1. Duct Tie (6 Outlet Hole)
2. Flexible Duct - (Lengths vary, see listing)
3. Flexible Nozzles (Lengths vary, see listing)
4. Modular Duct Layout
5. Throw Rod Modular Duct Layout for switch machines.
DUCT TIE (9 FT)- with Safelok Fastener

Rail mounting kits with Pandrol e-clip (2 Kits needed per duct tie). Kits contains all components to mount 1 tie plate to duct tie. Comes with insulators, clips & tie plate.

HAB-11017-1 Rail Seat Assembly (Safelok) for 115# to 119# Rail (1 ea)

- HAB-11017-01 Tie Plate, 115# to &136# Safelok (1 per assy)
- HAB-11017-06 Pad, Abrasion Assy. Safelok (1 per assy)
- HAB-11017-08 Clip, Spring, Safelok (Brown) (2 per assy)
- HAB-11017-05 Insulator, Safelok, (black) (2 per assy)
- HAB-11017-07 Insulator, Safelok, (Grey) (2 per assy)
- HAB-11017-04 Spring Clip Long Reach.
- HAB-11002-2 Insulating Plate

HAB-11017-2 Rail Seat Assembly (Safelok) for 132-140# Rail

- HAB-11017-01 Tie Plate, 115# to &136# Safelok (1 per assy)
- HAB-11017-06 Pad, Abrasion Assy. Safelok (1 per assy)
- HAB-11017-08 Clip, Spring, Safelok (Brown) (2 per assy)
- HAB-11017-02 Insulator Safelok (Natural) (2 per assy)
- HAB-11002-2 Insulating Plate (1 per assy)

Other Components

- HAB-9335-7 Universal Gasket
- HAB-11000-007 End Cover Plate for 8’ 6” and 9’Duct Tie
- HAB-9344-1 Cover Plate, Main Duct Without hardware
- TR-5066-001 Screw, Hex 7/8-9”x 2”
- TR-5066-002 Lock Washer 7/8”
- HD-7571-14 Hex head bolt 1/2-13 x 1-3/4
- HAB-11017-08 Split Lock Washer 1/2”
- HD-7575-SS Stainless Steel Nut, 1/2-13,
This drawing shows a typical modular duct layout (24 foot shown) on timber ties and a throw rod/crank rod modular duct layout (8 foot shown). See drawing for options and lengths; HAB-6220-[[ ]] Sheet 2

See reverse side for lengths and options
See Modular Duct & Components Parts Catalog for individual parts

*NOTE: FLEXIBLE NOZZLE ALSO AVAILABLE
HAB-11003-R40
FLEX NOZZLE KIT
FOR THROW ROD SWITCH MACHINE
# Modular Duct Layouts – Duct Tie

<table>
<thead>
<tr>
<th>Standard Switches</th>
<th>Switch Length</th>
<th>Mod Duct 8 FT. OPEN HAB-6197-1</th>
<th>Mod Duct 8 FT. CLOSED HAB-6197-2</th>
<th>Single Transition HAB-6282-2</th>
<th>Support Assembly Quantity’s - SEE TABLE HAB-9306-3</th>
<th>HAB-9306-6</th>
<th>HAB-9458-2</th>
<th>Elbow, Mod Duct HAB-9773</th>
<th>Mod Duct 5 FT. CLOSED HAB-6197-4</th>
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<tbody>
<tr>
<td>HAB-6220-8-[]</td>
<td>8 FT.</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>0</td>
<td>4</td>
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<td></td>
</tr>
<tr>
<td>HAB-6220-16-[]</td>
<td>16 FT.</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>8</td>
<td></td>
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<tr>
<td>HAB-6220-24-[]</td>
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<td>2</td>
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<td>12</td>
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<tr>
<td>HAB-6220-30-[]</td>
<td>30 FT.</td>
<td>6</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>12</td>
<td>16</td>
<td></td>
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<tr>
<td>HAB-6220-39-[]</td>
<td>39 FT.</td>
<td>8</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>16</td>
<td>20</td>
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<tr>
<td><strong>Derail Switches</strong></td>
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<tr>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>0</td>
<td>4</td>
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<td>HAB-6220-74-[]</td>
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<td>1</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>6</td>
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<td>HAB-6220-80-[]</td>
<td>30 FT.</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>4</td>
<td>8</td>
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<td>39 FT.</td>
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<td>1</td>
<td>1</td>
<td>4</td>
<td>6</td>
<td>10</td>
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<tr>
<td><strong>Throw Rod (Switch Machine)</strong></td>
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<td>0</td>
<td>2</td>
<td>1</td>
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-[] Modular Duct Layout for use with: Support Assemblies Included HAB-9306-3 HAB-9306-6 HAB-9458-2

-DTT Main Duct Tie w/ Timber Ties | YES | NO
-DTC Main Duct Tie w/Concrete Ties | NO | YES

**For use with Duct TIES**

All Layouts come with Electrical Isolation Kit (HAB-11005-4) & Bolt-on Collar (HAB-10504-1)

1 each per transition

Duct shown for reference only

Bolt-On Collar
DTT and DTC layouts only

5” dia. TRANSITION
Rails Company Parts Catalog

Main Ducts & Duct Extensions
(8.25 x 7.5) Ducts (Flat Flange)

Nozzles & Accessories
6-5/16 Dia. mounting pattern
Including Standard Air Nozzles & Flexible Air Nozzles

Modular Duct Layouts
6-5/16 Dia. mounting pattern

[Diagram of Modular Duct Layouts]

DUCT OPENING (OUTLET)

5/16-18 Threaded (4)
Ø 6-5/16" HOLE PATTERN
Ø 5-3/16" OUTLET
**Main Ducts & Extensions - (8.25 x 7.5) Ducts (Flat Flange)**

**HAB-9410-S Main Duct**
Stainless Steel Main Duct with 6 holes. Furnished with HAB-9366-202-1 Main Duct Mounting Hardware kit.

**HAB-9410-4S Main Duct**
Stainless Steel Main Duct with 5 holes. Furnished with HAB-9366-202-2 Main Duct Mounting Hardware kit.

**HAB-9366-202-1 Main Duct Mounting Hardware kit**
- (6) 3/8” Bolts
- (8) 3/8” Flat Washers
- (6) 3/8” Lock Washers
- (6) 3/8” Lag Screws
- (8) 1/2” Flat Washers

**HAB-9366-202-2 Main Duct Mounting Hardware kit**
- (4) 3/8” Bolts
- (6) 3/8” Flat Washers
- (4) 3/8” Lock Washers
- (4) 3/8” Lag Screws
- (8) 1/2” Flat Washers

**Elevated Cross Duct**
- **HAB-9415-S**
  Stainless Steel Elevated Cross Duct. Without inspection door
- **HAB-9415-DS**
  Stainless Steel Elevated Cross Duct. With inspection door (shown)

**HAB-9586 Anti-Rodent Screen**
Supplied w/ 1/8” Gasket HAB-9335-1

**HAB-9335-1 Gasket, 1/8” Thk.**

**HAB-9335-2 Anti-Rodent Screen**
1/4” Gasket HAB-9335-2 is supplied w/ duct
### Main Ducts & Extensions - (8.25x 7.5) Ducts (Flat Flange)

#### Adjustable Ducts
- HAB-9419-1S  5’ to 10’
- HAB-9419-2S  2 1/2 - 5 Ft
- HAB-9419-3S  3’ to 6’
- HAB-9419-4S  22’-36’

*Furnished with Gasket Hardware Kit HAB-9403*

#### Duct Extensions for 8.25x7.5 ducts
- HAB-9418-1S  12”
- HAB-9418-2S  24”
- HAB-9418-3S  36”
- HAB-9418-4S  44”
- HAB-9418-4S  48”
- HAB-9418-5S  60”
- HAB-9418-6S  72”
- HAB-9418-7S  84”
- HAB-9418-8S  96”
- HAB-9418-9S  108”
- HAB-9418-10S 120”
- HAB-9418-11S 132”
- HAB-9418-12S 144”
- HAB-9418-13S 156”
- HAB-9418-14S 168”
- HAB-9418-15S 180”
- HAB-9418-16S 192”

*Furnished with Gasket Hardware Kit HAB-9403*

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### Insulated Duct Extension Casings for 8.25 x 7.5 Ducts
- HAB-7587-1  Casing, Duct, 1 ft (9”)
- HAB-7587-2  Casing, Duct, 2 (21”)
- HAB-7587-3  Casing, Duct, 3 ft., (33”)
- HAB-7587-4  Casing, Duct, 4 ft., (45”)
- HAB-7587-44  Casing, Duct, (44”)  Furnished with Gasket Hardware Kit HAB-9403
- HAB-7587-47  Casing, Duct, (47”)
- HAB-7587-5  Casing, Duct, 5 ft., (57”)
- HAB-7587-6  Casing, Duct, 6 ft., (69”)
- HAB-7587-7  Casing, Duct, 7 ft., (81”)
- HAB-7587-76  Casing, Duct, Insulated, (76”)
- HAB-7587-8  Casing, Duct, 8 ft., (93”)
- HAB-7587-10  Casing, Duct, 10 ft.& 10’ adjustable duct
- HAB-7587-11  Casing, Duct Extension (50”)
- HAB-7587-12  Casing, Duct, Extension (53”)

**Insulation casings are available for all size ducts.**

### Elbow Ducts
#### 90 deg.

<table>
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<tr>
<th>Part#</th>
<th>Dim. A</th>
<th>Dim. B</th>
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<tbody>
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<td>7”</td>
</tr>
<tr>
<td>HAB-9422-2S</td>
<td>15”</td>
<td>7-1/2”</td>
</tr>
<tr>
<td>HAB-9422-3S</td>
<td>13-1/4”</td>
<td>16-3/4”</td>
</tr>
<tr>
<td>HAB-9422-5S</td>
<td>15”</td>
<td>20”</td>
</tr>
<tr>
<td>HAB-9422-6S</td>
<td>10-7/8”</td>
<td>18-5/8”</td>
</tr>
</tbody>
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**Furnished w/ Gasket Hardware Kit HAB-9403**

#### 45 deg.

<table>
<thead>
<tr>
<th>Part#</th>
<th>Dim. A</th>
<th>Dim. B</th>
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<tbody>
<tr>
<td>HAB-9420-1</td>
<td>7”</td>
<td>7”</td>
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<tr>
<td>HAB-9420-2</td>
<td>3”</td>
<td>3”</td>
</tr>
</tbody>
</table>

**Furnished w/ Gasket Hardware Kit HAB-9403**

*Custom Lengths Available For All Ducts*

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101 Newark Way, Maplewood N.J. 07040
Phone: (800) 21 RAILS (72457) Fax: (973) 763-2585
Email: Rails@Railsco.com Web: www.railsco.com
The following nozzles & accessories can be used with any main duct using the mounting pattern shown to the right, including all 8.25 x 7.5 (flat flange) ducts.

*Flexible Nozzles recommended for Duct Ties*

**Flexible Air Nozzles - 3” Diameter**

*Flexible Air Nozzles for 115# to 119# Rail*
Includes isolation kit (HAB-11005-4)
*Uses HAB-11003-119 Mounting Clip*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Length</th>
<th>Mounting Clips included</th>
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<tbody>
<tr>
<td>HAB-11003-5-115</td>
<td>40”</td>
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</tr>
<tr>
<td>HAB-11003-6-115</td>
<td>48”</td>
<td>2</td>
</tr>
<tr>
<td>HAB-11003-7-115</td>
<td>60”</td>
<td>3</td>
</tr>
</tbody>
</table>

*Flexible Air Nozzles for 132# to 140# Rail*
Includes isolation kit (HAB-11005-4)
*Uses HAB-11003-132 Mounting Clip*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Length</th>
<th>Mounting Clips included</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAB-11003-5-132</td>
<td>40”</td>
<td>2</td>
</tr>
<tr>
<td>HAB-11003-6-132</td>
<td>48”</td>
<td>2</td>
</tr>
<tr>
<td>HAB-11003-7-132</td>
<td>60”</td>
<td>3</td>
</tr>
<tr>
<td>HAB-11003-9-132</td>
<td>108”</td>
<td>5</td>
</tr>
</tbody>
</table>

*Flexible Air Nozzles*  
(without mounting clips or isolation kit)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAB-11003-5-10</td>
<td>40”</td>
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<tr>
<td>HAB-11003-5-00</td>
<td>48”</td>
</tr>
<tr>
<td>HAB-11003-5-20</td>
<td>60”</td>
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</tbody>
</table>
Nozzles & Accessories - 6-5/16 Dia. mounting pattern

**Flexible Air Nozzles Components**

- **HAB-11003-119**
  Hose Clip for 3" Flex Nozzle. 115# to 119# Rail
- **HAB-11003-132**
  Hose Clip for 3" Flex Nozzle. 132# to 140# Rail
- **HAB-11005-4**
  Electrical Isolation Kit. (Nozzle & Transition on Duct Tie)
- **HD-10555-5**
  Hex Head Washer Screw, Stainless Steel

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAB-10517-3-25</td>
<td>25 Ft</td>
</tr>
<tr>
<td>HAB-10517-58</td>
<td>58&quot;</td>
</tr>
<tr>
<td>HAB-10517-108</td>
<td>106&quot;</td>
</tr>
<tr>
<td>HAB-105-337</td>
<td>37.5&quot;</td>
</tr>
<tr>
<td>HAB-10517-338</td>
<td>45.5&quot;</td>
</tr>
</tbody>
</table>

**Flexible Nozzle Kit for Throw Rod/Switch Machine**

**HAB-11003-R40**

Kit mounts to any Rails Co. duct with 6-5/16" 4 hole mounting pattern including Duct Ties and standard HAB-9410 main ducts

**Kit Includes:**

- #1 - HAB-11003-5-10 Flexible Nozzle, 40"
- #2 - HAB-6513-1 Bracket, Nozzle Support Assy (2-pcs)
- #3 - HAB-11005-4 Isolation Kit (electrical)
Nozzles & Accessories - 6-5/16 Dia. mounting pattern

The following nozzles & accessories can be used with any main duct using the mounting pattern shown to the right, including all 8.25 x 7.5 (flat flange) ducts. *Flexible Nozzles recommended for Duct Ties*

**Standard Air Nozzles**

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Length Range</th>
<th>Shipped Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAB-9595-30</td>
<td>23 to 30”</td>
<td>30</td>
</tr>
<tr>
<td>HAB-9595-40</td>
<td>31 to 41”</td>
<td>40</td>
</tr>
<tr>
<td>HAB-9595-50</td>
<td>41 to 51”</td>
<td>50</td>
</tr>
<tr>
<td>HAB-9595-60</td>
<td>51 to 60”</td>
<td>60</td>
</tr>
<tr>
<td>HAB-9595-70</td>
<td>61 to 70”</td>
<td>70</td>
</tr>
<tr>
<td>HAB-9595-80</td>
<td>71 to 80”</td>
<td>80</td>
</tr>
<tr>
<td>HAB-9595-90</td>
<td>91 to 90”</td>
<td>90</td>
</tr>
</tbody>
</table>

Furnished with Nozzle Support Bracket (HAB-6513)

*All 9595 Series Have 3 1/4” Rise

**Air Outlet Riser**

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Length Range</th>
<th>Shipped Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAB-9412-01</td>
<td>(1-3/8”)</td>
<td>HAB-9412-04</td>
</tr>
<tr>
<td>HAB-9412-02</td>
<td>(2”)</td>
<td>HAB-9412-05</td>
</tr>
<tr>
<td>HAB-9412-03</td>
<td>(1”)</td>
<td></td>
</tr>
</tbody>
</table>

**HAB-9413**

Air Deflector, 14”long, 2” Rise, 6 1/4” Height
For use with shield layouts

**High Velocity Air Nozzle**

2”x 2” outlet, 3-1/4” Rise, 7-1/2” Height

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAB-9594</td>
<td>22”</td>
</tr>
<tr>
<td>HAB-10463-34</td>
<td>34”</td>
</tr>
<tr>
<td>HAB-10463-44</td>
<td>44”</td>
</tr>
</tbody>
</table>

All Nozzles furnished with “Hardware kit for slotted main duct attachments” (HAB-9681)

101 Newark Way, Maplewood N.J. 07040
Phone: (800) 21 RAILS (72457) Fax: (973) 763-2585
Email: Rails@Railsco.com Web: www.railsco.com
Modular Duct Layouts - 6-5/16 Dia. mounting pattern

This drawing shows a typical modular duct layout (24 foot shown) on timber ties and a throw rod/crank rod modular duct layout (8 foot shown).

See layout drawings for options and lengths; HAB-9421[ ][ ]; CAB-9421[ ][ ]; HAB-6220[ ][ ]

HAB-9306-3
SUPPORT ASSEMBLY, SIDE MOUNT
FOR USE ON TIMBER TIES WITH SWITCH PLATES
4 supports typical for standard layouts

HAB-6197-1
MODULAR DUCT, 8-FT (OPEN)
Quantities vary by layout

HAB-6197-2
MODULAR DUCT, 8-FT (CLOSED)
for use at end of layouts (2 typical)

HAB-9306-6
SUPPORT ASSEMBLY TOP MOUNT
FOR USE ON TIMBER TIES
Quantities vary by layout

TRANSITION, SINGLE (HAB-9412 Shown, type is based on layout)

HAB-9306-3
for THROW ROD LAYOUTS

HAB-6197-2
DUCT, MODULAR 8-FT (CLOSED)
for THROW ROD LAYOUTS

HAB-9773
ELBOW, MODULAR DUCT
for THROW ROD LAYOUTS ONLY

See reverse side for lengths and options
See Modular Duct & Components Parts Catalog for individual parts

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Phone: (800) 21 RAILS (72457) ◇Fax: (973) 763-2585
Email: Rails@Railsco.com ◇Web: www.railsco.com

20061130
## Modular Duct Layouts – 6-5/16 Mounting Pattern

<table>
<thead>
<tr>
<th>Switch Length</th>
<th>Mod Duct 8 FT. OPEN</th>
<th>Mod Duct 8 FT. CLOSED</th>
<th>Single Transition HAB-9412</th>
<th>Support Assembly Quantity’s - SEE TABLE</th>
<th>Elbow, Mod Duct HAB-9773</th>
<th>Mod Duct 5 FT. CLOSED HAB-6197-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAB-9421-8[-]</td>
<td>8 FT.</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>0 4</td>
</tr>
<tr>
<td>HAB-9421-16[-]</td>
<td>16 FT.</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>4 8</td>
</tr>
<tr>
<td>HAB-9421-24[-]</td>
<td>24 FT.</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>8 12</td>
</tr>
<tr>
<td>HAB-9421-30[-]</td>
<td>30 FT.</td>
<td>6</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>12 16</td>
</tr>
<tr>
<td>HAB-9421-39[-]</td>
<td>39 FT.</td>
<td>8</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>16 20</td>
</tr>
<tr>
<td>HAB-9421-66[-]</td>
<td>16 FT.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>0 4</td>
</tr>
<tr>
<td>HAB-9421-74[-]</td>
<td>24 FT.</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>2 6</td>
</tr>
<tr>
<td>HAB-9421-80[-]</td>
<td>30 FT.</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>4 8</td>
</tr>
<tr>
<td>HAB-9421-89[-]</td>
<td>39 FT.</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>6 10</td>
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</tbody>
</table>

### Support Assemblies Included

<table>
<thead>
<tr>
<th>Quantity</th>
<th>HAB-9306-3</th>
<th>HAB-9306-6</th>
<th>HAB-9458-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>

### Modular Duct Layout for use with:

**Support Assemblies Included**

- HAB-9306-3
- HAB-9306-6
- HAB-9458-2

*not for use with duct TIES, see drawing HAB-6220-*[-]* [-]*

**Modular Duct Layouts – 6-5/16 Mounting Pattern**

**For use with main ducts with 6-5/16” diameter mounting hole pattern (as shown) on center outlets**

### Notice

For use with main ducts with 6-5/16” diameter mounting hole pattern (as shown) on center outlets.

*not for use with duct TIES, see drawing HAB-6220-*[-]* [-]*

---

**变更记录**

- **Rev:** A
- **Date:** 10-24-06
- **Description:** Added descriptive information, Changed title
- **Rev:** A
- **Date:** ETO
- **Description:** ETO
- **Rev:** A
- **Date:** ETO

**Notes:**

- **TIM** Timber Ties
- **CON** Concrete Ties

**SCALE:**

- **DRAWN BY:** ETO
- **APPROVED BY:** TJB

**MATERIAL:**

- **MODULAR DUCT LAYOUTS, FOR MAIN DUCTS WITH 6-5/16 DIA. MOUNTING HOLES**

**DATE:** 7-18-00

**DWG NO:** HAB-9421-[-]* [-]*
Rails Company Parts Catalog

Main Ducts & Duct Extensions
Recessed Flange (8-Hole) Ducts

Nozzles & Accessories
Collar Type

Modular Duct Layouts
Collar Type
Main Ducts & Extensions - Recessed Flange (8-Hole) Ducts

HAB-3000-S
Stainless Steel Main Duct with (6) 5” collared air outlets
HAB-3000-102
Main Duct Mounting Hardware Kit

HAB-3450-3
Steel Main Duct with (2) 5” & (2) 4.5” collared air outlets. 81.5” Long Duct

Mounting hole layout
For use with collar type nozzles/accessories

Standard Single track duct usage

Elevated Cross Duct without Inspection Door
Duct Extension or Adjustable Duct
Main Duct
Nozzles
Transitions

B=HAB-7404 Fastener Package, Track Duct
A=HAB-7364 Electrical Insulation Kit

Blower Unit

HAB-7404 and HAB-7364 are Fastener and Insulation kits respectively.
Main Ducts & Extensions - Recessed Flange (8-Hole) Ducts

Duct Extensions (for recessed flange ducts)

- HAB-6097-2  2 ft Long
- HAB-6097-2.5  2-1/2 ft Long
- HAB-6097-4  4 ft Long
- HAB-6097-6  6 ft Long
- HAB-6097-7  7 ft Long
- HAB-6097-8  8 ft Long
- HAB-6097-10  10 ft Long
- HAB-6097-13  13 ft Long

- Furnished with Gasket
- Hardware Kit HAB-7404

Mounting Hole Layout for all ducts on this page (male/female flange end per each duct)

Elevated Cross Duct

- HAB-3500-S
  Stainless Steel Elevated Cross Duct.
  Without inspection door

- HAB-3500-2S
  Stainless Steel Elevated Cross Duct.
  with inspection door

  Furnished with hardware kit

Adjustable Ducts (for recessed flange ducts)

- HAB-6339-1S  5’ to 10’
- HAB-6339-2S  2 1/2 - 5Ft
- HAB-6339-4S  22” to 36”

- Furnished with Gasket
- Hardware Kit HAB-7404

HAB-7404
Fastener Package, Track Duct

HAB-7364 Electrical Insulation Kit
(Center Main Duct)
The following nozzles & accessories can be used with any Collar type main duct (as shown to right), includes most Recessed Flange (8-Hole) Ducts

*Flexible Nozzles recommended for Duct Ties*

**Nozzles can be used with Duct Ties by adding –DTT to the end of the part number.**

*DTT Includes Bolt-on Collar (HAB-10504-1) & Electrical Isolation Kit (HAB-11005-4)*

---

**HAB-3200**

Air Nozzle, 22" long with 5” diameter collar. Comes with mounting hardware (3”x 3” outlet)

**HAB-3300**

Air Deflector, 14" long with 5” diameter collar. For use heat retaining shields. Comes with Hardware

**HAB-7641**

Air Deflector, 5” Collar
Convergent. Comes with hardware

**HAB-7658**

**high-velocity** Air Nozzle. 22” Long, 5” Collar
Comes with Hardware 2”x2” outlet

**Bolt-on Collar (5” dia) HAB-10504-1**

Allows use of collared nozzles with ducts with 6-5/16 dia, 4 hole mounting pattern.

Electrical Isolation Kit HAB-11005-4 not included
Flange Adapter Plate for Recessed Flange (8-Hole) Ducts

**HAB-9331  ‘New’ Blower to ‘old’-Style Duct**

- **NEW STYLE**
  - Blower with 6-HOLE NOSE
- **OLD STYLE**
  - 8-HOLE DUCT

**HAB-9337  ‘Old’-Style Blower to ‘New’-Style Duct**

- **NEW STYLE**
  - 6-HOLE DUCT
- **OLD STYLE**
  - Blower w/ 8-HOLE DUCT

**Use Case:**
- **HAB-3030 GASKET**
  - (1/2 x 1/2 x 30-1/2)
- **HAB-9337 ADAPTER**
  - USE THIS ADAPTER TO MATE OLD STYLE -500 AND -600 SERIES BLOWERS TO 6-HOLE FLAT FLANGE DUCTS (8.25x7.5)
- **HD-3712 (8)**
- **HAB-9403**
  - GASKET (6-hole) (Insulation Kit)
- **HAB-9331**
  - USE THIS ADAPTER TO MATE -520 AND -620 SERIES BLOWERS (6 hole, FLAT FLANGE, 8.25x7.5) TO OLD-STYLE (8-HOLE) DUCTS
Modular Duct Layouts - Collar Type (5” dia.)

This drawing shows a typical modular duct layout (24 foot shown) on timber ties and a throw rod/crank rod modular duct layout (8 foot shown).

See layout drawings for options and lengths:
HAB-9421-[]; CAB-9421-[ ]; HAB-6220-[ ]

HAB-6197-1 MODULAR DUCT, 8-FT (OPEN)
Quantities vary by layout

HAB-6197-2 MODULAR DUCT, 8-FT (CLOSED)
for use at end of layouts (2 typical)

HAB-9306-3 SUPPORT ASSEMBLY, SIDE MOUNT
FOR USE ON TIMBER TIES WITH SWITCH PLATES
4 supports typical for standard layouts

HAB-6197-2 DUCT, MODULAR 8-FT (CLOSED)
for THROW ROD LAYOUTS

HAB-9773 ELBOW, MODULAR DUCT
for THROW ROD LAYOUTS ONLY

TRANSITION, SINGLE
(HAB-9412 Shown, type is based on layout)

See reverse side for lengths and options
See Modular Duct & Components Parts Catalog for individual parts

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Email: Rails@Railsco.com Web: www.railsco.com
# Modular Duct Layouts – Collar Type (5” Dia.)

<table>
<thead>
<tr>
<th></th>
<th>Switch Length</th>
<th>Mod Duct 8 FT. OPEN HAB-6197-1</th>
<th>Mod Duct 8 FT. CLOSED HAB-6197-2</th>
<th>Single Transition HAB-6282-2</th>
<th>Support Assembly Quantity’s</th>
<th>Elbow, Mod Duct HAB-9773</th>
<th>Mod Duct 5 FT. CLOSED HAB-6197-4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Switches</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAB-6220-8-[ ]</td>
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<td>0</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>HAB-6220-16-[ ]</td>
<td>16 FT.</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>HAB-6220-24-[ ]</td>
<td>24 FT.</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>HAB-6220-30-[ ]</td>
<td>30 FT.</td>
<td>6</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>HAB-6220-39-[ ]</td>
<td>39 FT.</td>
<td>8</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>16</td>
<td>20</td>
</tr>
<tr>
<td><strong>Derrail Switches</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAB-6220-66-[ ]</td>
<td>16 FT.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>HAB-6220-74-[ ]</td>
<td>24 FT.</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>HAB-6220-80-[ ]</td>
<td>30 FT.</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>HAB-6220-89-[ ]</td>
<td>39 FT.</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td><strong>Throw Rod</strong> (Switch Machine)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>HAB-6220-R5-[ ]</td>
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<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>HAB-6220-R8-[ ]</td>
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<td>0</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

-[] Modular Duct Layout for use with: Support Assemblies Included

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>HAB-9306-3</th>
<th>HAB-9306-6</th>
<th>HAB-9458-2</th>
</tr>
</thead>
</table>

- TIM Timber Ties
  YES NO

- CON Concrete Ties
  NO YES

For use on main ducts with 5” round center collars

Duct shown for reference only

---

<table>
<thead>
<tr>
<th>Rev</th>
<th>Date</th>
<th>Description</th>
<th>Reg</th>
<th>App</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3-8-01</td>
<td>HAB-6282-C was HAB-6282</td>
<td>ETO</td>
<td>ETO</td>
</tr>
<tr>
<td>B</td>
<td>10-24-06</td>
<td>Added descriptive information, changed title</td>
<td>ETO</td>
<td>ETO</td>
</tr>
<tr>
<td>C</td>
<td>1-22-06</td>
<td>Removed DT2, DT4 – Added in Sheet 2</td>
<td>ETO</td>
<td>ETO</td>
</tr>
</tbody>
</table>

DATE: 7-18-00  DWG NO: HAB-6220-[ ]-[ ] Sh 1
# Modular Duct & Components Parts Catalog

| HAB-6197-1 | Modular Duct 8 Ft. Long  
| HAB-6197-1-HW | Modular Duct 8 Ft. Long |
| HAB-6197-2 | Modular Duct 8 Ft. Long  
| HAB-6197-2-HW | Modular Duct 8 Ft. Long |
| HAB-6197-4 | Modular Duct 5 Ft. Long  
| HAB-6197-4-HW | Modular Duct 5 Ft. Long |
| HAB-6197-6 | Modular Duct 4 Ft. Long  
| HAB-6197-6-HW | Modular Duct 4 Ft. Long |
| HAB-10527-200 | Modular Duct Support  
Bracket 3” x 6” 3-1/4” high  
| HAB-10527-300 | Modular Duct Support  
Bracket 3” x 6” Side Mount  
| HAB-10527-400 | Modular Duct Support  
Bracket 3” x 6” 2-1/4” high  
| HAB-9458-04 | Modular Duct Support  
Bracket for concrete ties  
| HAB-9306-6 | Modular Duct support assemble.  
Hardware kit for timber ties. Top Mount.  
| HAB-9306-3 | Modular Duct support assemble.  
Hardware kit for timber ties. Side Mount.  

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Modular Duct & Components Parts Catalog

HAB-9458-2
Concrete Ties Support Assemble. 
Mod Duct 3x6  Electrical  Isolation

HAB-9306-602
Modular Duct Support 
Bracket Hardware Kit

HD-10546-4
Carriage Bolt 3/8-16 x 1”

HAB-10526-1
Modular Duct Support Clip

HD-7362
Split Lock Washer 3/8

HD-8958
Plated nut 3/8-16

RT-13
Double headed nail

HD-7396-1
Fiber Washer,

HAB-11007-2
Fiber Insulating Bushing

HAB-10527-[]][[]
Modular Duct Support Bracket

HD-6197-[]
Modular Duct

HD-8958
Plated nut 3/8-16

HD-7362
Split Lock Washer 3/8

HAB-10526-1
Modular Duct Support Clip

HD-10546-4
Carriage Bolt 3/8-16 x 1”

Car Retarders ◇ Switch Heaters ◇ Snow Detectors ◇ Electric Switch Heater Control Systems
Automatic Switch Point Locks ◇ Switch Point Clamps ◇ Switch Point Protectors ◇ Wheel Stops
Compression Rail Anchors ◇ Bridge Tie Anchors ◇ C&D Batteries

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Modular Duct & Components Parts Catalog

HAB-6282
Single Transition 5" round Collar. with 3-3/8" Rise comes with hardware

HAB-6282-2
Single Transition 5" round Collar. with 4-1/2" Rise, comes with hardware

HAB-6282-3
Single Transition, 4-1/2" round Collar. With 4-1/2" Rise comes with hardware

HAB-9412
Single Transition with 3-1/4" rise. Comes with hardware

HAB-9412-2
Single Transition with 2" rise. Comes with hardware

HAB-9815-DTT
Dual Transition. Comes with hardware

HAB-9815
Dual Transition. Comes with hardware

HAB-10504-1
Bolt-on Collar with mount hardware

HAB-11005-4
Electrical Isolation Kit

HAB-9773
Modular Duct Elbow

Car Retarders □ Switch Heaters □ Snow Detectors □ Electric Switch Heater Control Systems
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Snow Deflectors

*Extra Protection from drifting snow caused by passing trains, blowing snow and dragging equipment.*

1. HAB-3610 Snow Deflector, RIGHT Hand, with Hardware
2. HAB-3611 Snow Deflector, LEFT Hand, with Hardware

Supplied with hardware kit HAB-3611-202
Kit contents;
- 5 EA - HD-7572-3 Screw, Lag, 1/2”x 3”
- 5 EA - HD-7407 Washer, FLAT 1/2” Dia.