ROSS ITEMS
ROSS PILOT
BSI PART 37450AMK

ROSS PILOT VALVE REBUILD KIT
BSI KIT K12274

ROSS MAIN CONTROL VALVE REPAIR KIT
1/4, 3/8 & 1/2
BSI 37887AMK

1/2, 3/4 & 1
BSI 37169AMK

1-1/4 & 1-1/2
BSI 37882AMK

INCLUDES QTY 1 EACH:
37450AMK, K12274, 37887AMK, 37169AMK & 37882AMK
ITEM NO. | QTY. | DESCRIPTION
--- | --- | ---
2 | 1 | poppet assembly
4 | 1 | spring
5 | 1 | bumper
6 | 1 | retaining ring
13 | 1 | new style cover gasket
17 | 2 | o-ring
18 | 1 | o-ring
19 | 1 | old style cover gasket
22 | 1 | o-ring
23 | 2 | o-ring
24 | 1 | gasket

Field Notes:
This kit rebuilds all Ross pilot valves, both new and old style.
It contains all gaskets, seals, & the poppet. Some parts may not be used depending on the
particular mechanism, vintage of the valve, and adapters used.
Completely clean all grease from the valve body.
Use care not to scratch the sealing surfaces.
Do not lubricate any internal parts of the pilot valve.
There should be only one spring in the pilot valve - it is located under the poppet as shown in the drawing.
If the sealing surfaces are scored, then the valve must be replaced.
Time the breaker before (if possible) and after rebuilding the pilot valve.

Use Item 23 & 24 for the Westinghouse style main control valve with adapter block.
Use Items 17 for Ross main valves with ports 1" & smaller
Use Items 18 & 22 for Ross main valves with ports larger than 1"

The internal parts (Items 2, 4, 5, & 6) are the same for the old & new style
pilot valve bodies, but not illustrated above for the old style valve body.
Solenoid assembly for all Ross pilot valves. Universal coil can be used for 48vdc, 125vdc, and 250vdc.
Valve body shown for reference only

All parts shown are included in the rebuild kit
ITEM NO. | QTY. | DESCRIPTION
--- | --- | ---
2 | 1 | o-ring
3 | 1 | o-ring
4 | 1 | lower poppet
9 | 1 | bottom plate
10 | 1 | spring
13 | 1 | upper poppet assy
20 | 1 | o-ring
37 | 2 | o-ring
38 | 1 | o-ring
39 | 1 | gasket

FIELD NOTES:
Time the breaker before & after you rebuild the main closing control valve.
Apply only a very thin film of the supplied grease to the moving piston seal on the upper poppet. All static o-rings (items 20,37,2,3, & 38) should be lightly coated with a high quality o-ring grease such as Dow Corning # 111.
All the gaskets and o-rings may not be necessary depending on the exact configuration of your control valve.
Westinghouse AA-7 main control valve

Assemble parts for AA-7 same as shown below for AA-10

Westinghouse AA-10 main control valve

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<table>
<thead>
<tr>
<th>Item No</th>
<th>BSI part #</th>
<th>Description</th>
<th>Qty</th>
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<tr>
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<td>37993AMK</td>
<td>gasket</td>
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<td>36</td>
<td>37990AMK</td>
<td>adapter</td>
<td>1</td>
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<tr>
<td>37</td>
<td>211247D/37124AMK</td>
<td>o-ring</td>
<td>2</td>
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<td>38</td>
<td>37450AMK</td>
<td>Ross pilot valve</td>
<td>1</td>
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<td>55</td>
<td>37134AMK</td>
<td>socket head cap screw, 1/4-20 x 1</td>
<td>2</td>
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<td>56</td>
<td>37996AMK</td>
<td>socket head cap screw, 3/8-16 x 1</td>
<td>2</td>
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<td>57</td>
<td>37144AMK</td>
<td>lock washer, 3/8&quot;</td>
<td>2</td>
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<tr>
<td>66</td>
<td>37145AMK</td>
<td>lock washer, 1/4&quot;</td>
<td>2</td>
</tr>
</tbody>
</table>

Notes:
1. Always time the breaker before (if possible) and after replacing the pilot valve to ensure proper closing speed.
2. This kit is for use on the mechanisms listed below that are used on all circuit breakers and the Westinghouse model 2000F (CGB).
3. If replacing a Norgren pilot valve with an external pilot pressure feed into port "P" on the old Norgren pilot valve, remove and discard the pipe plug from port "X1" on the new Ross pilot valve and connect the external pilot pressure tubing to the port on the Ross pilot valve marked "X1". The port on the Ross pilot valve marked "Y3" is the pilot exhaust and should always remain unplugged.

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