BREAKER SERVICE INC

1080-D Cypress St LaHabra CA 90631 800-826-5250 office 888-267-7690 fax

Email: sales@BreakerService.com



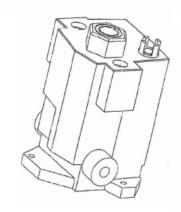
We Specialize in Spare Parts for New & Obsolete Substation Equipment Including Transformers & Circuit Breakers

The following pages are only a representative sample of the type of parts that Breaker Service can provide from stock.

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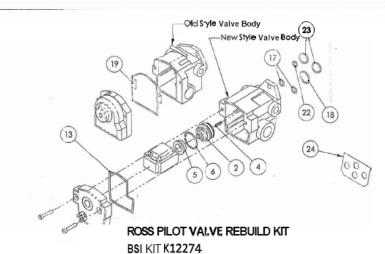
AA-7 MECHANISM

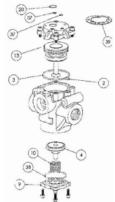


ROSS PILOT BSI PART 37450AMK









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

INCLUDE\$ QTY 1 EACH: 37450AMK, K12274, 37887AMK, 37169AMK & 37882AMK

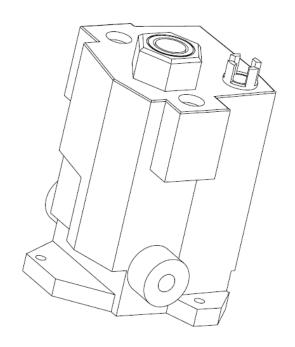
BREAKER SERVICE INC 800-326-5250 office 838-267-7690 fax

ROSS VALVE FIRST AID KIT REPAIRS ALL ROSS MAIN & FILOT VALVES

SIZE DWG. NO. 38275AMK

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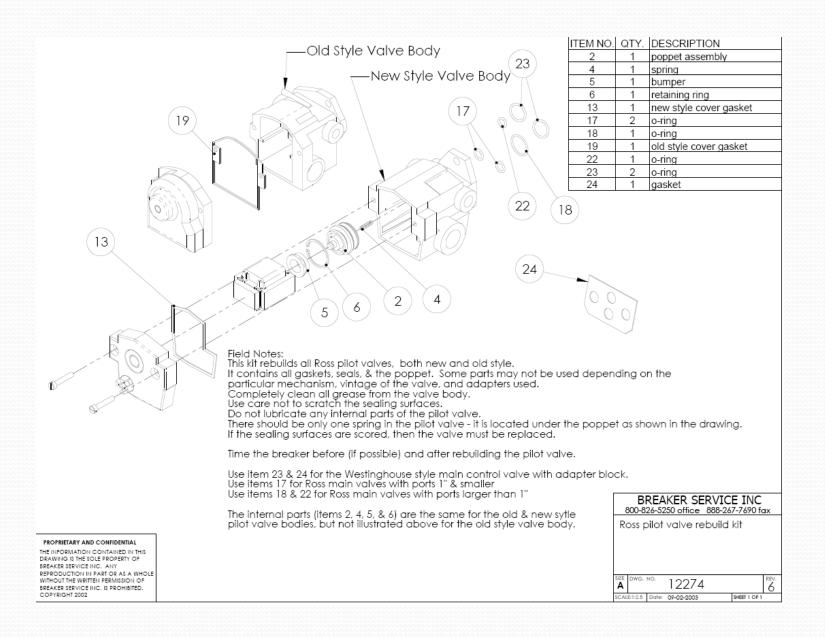
Ross Pilot Valve with coil for 125vdc operation

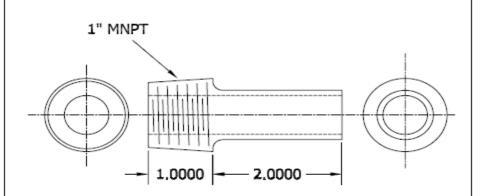
37450AMK

REV.

SCALE:1:1 Date: 02-02-2002

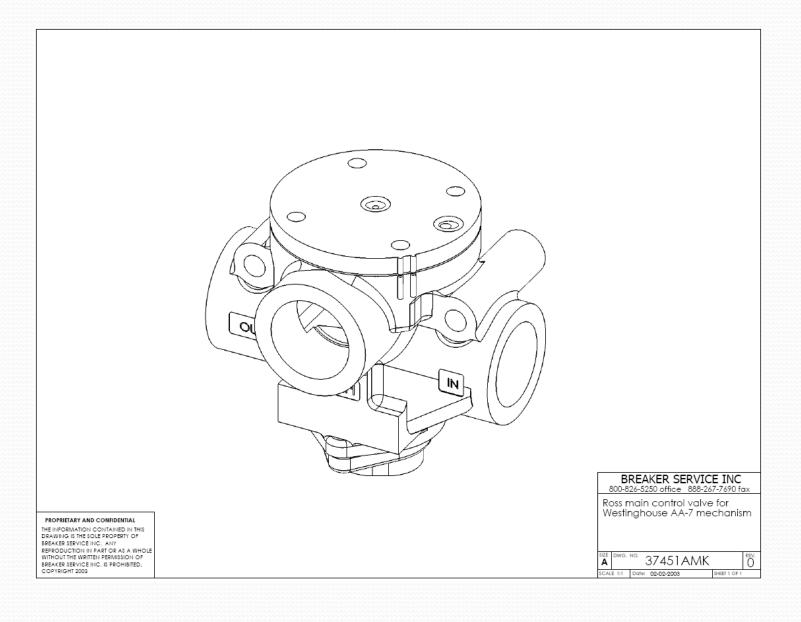
SHEET 1 OF 1

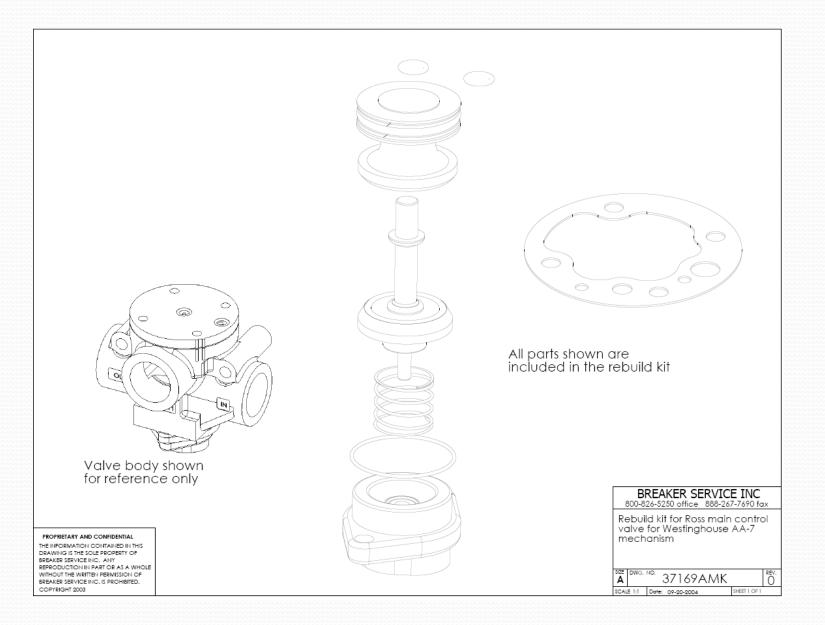


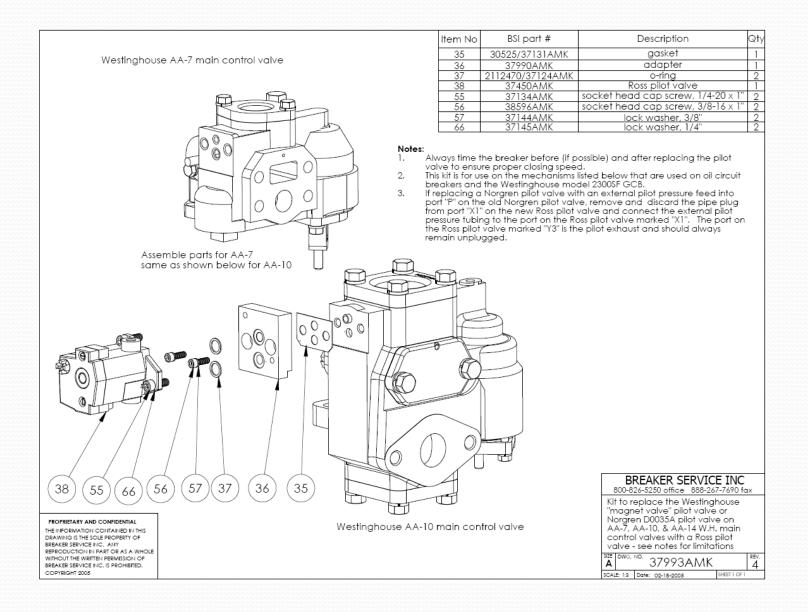


Field Installation Note: Cut smooth end to length in field

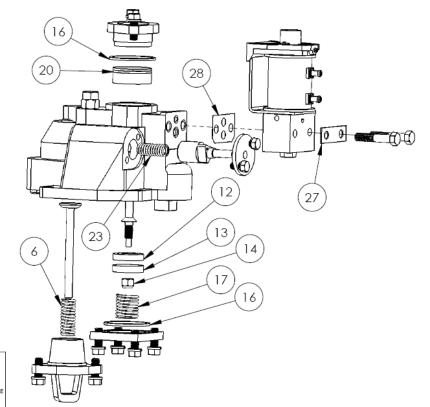
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Tolerances ±.003	Adapter for Westinghouse AA-7 operating mechanism. This adapter threads into the 1° female NPT intake port of the Ross main valve body. The other side of the adapter is smooth to accept a dresser coupling.
жч 1:1 16-Mar-2	01 ster 1 of 1 see A pear 37378AMK n







ITEM NO.	QTY.	PART NO.	DESCRIPTION
6	1	37748AMK	Spring 1735863 / 1D61130H05 / 5086B49H06
12	1	30614	Valve Disc 1644478 / 24D9629H01 / 5086B49H03
13	1	30615	Disc Support SST 1644475 / 22D8972H02 / 5086B49H12
14	1	37753AMK	Elastic Stop Nut 1627943 / 70220DAN1B / 5086B49H11
16	2	22343	O-ring 1644476 / 5492C46H19 / 5086B49H07
17	1	37749AMK	Spring 1644423 / 23D2758H04 / 5086B49H04
20	1	37751AMK	Piston Ring 1644477 / 534539 / 23B2997H31 / 5086B49H02
23	1	37750AMK	Spring 1644424 / 23D2758H05 / 5086B49H05
27	1	37747AMK	Locking Clip 1216890 / 6D8917H18 / 5086B49H09
28	1	30525 / 37131AMK	Gasket 1589255 / 1659B85H01 / 5086B49H08



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Kit to rebuild Westinghouse AA-7 Main Control Valve

37746AMK

SHEET 1 OF 1 SCALE 1:3.5 Date: 07-25-2003







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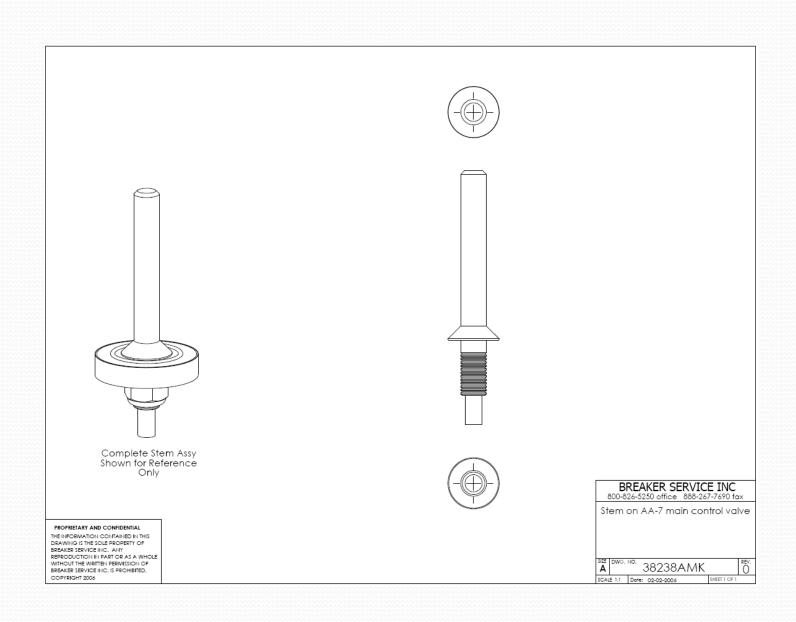
BREAKER SERVICE INC 800-826-5250 office 888-267-7690 fax

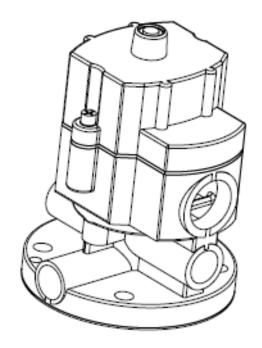
Spring under stem in main control valve on AA-7 mechanism

A DWG. NO. 37749AMK

SCALE 1:1 Date: 02-02-2006

SHEET 1 OF 1





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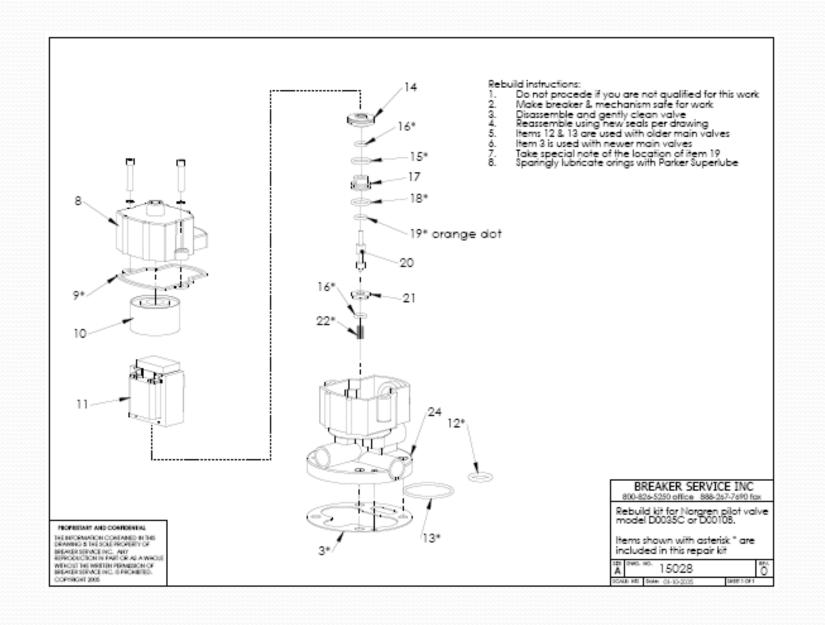
BREAKER SERVICE INC 800-826-5250 office 888-267-7690 fax

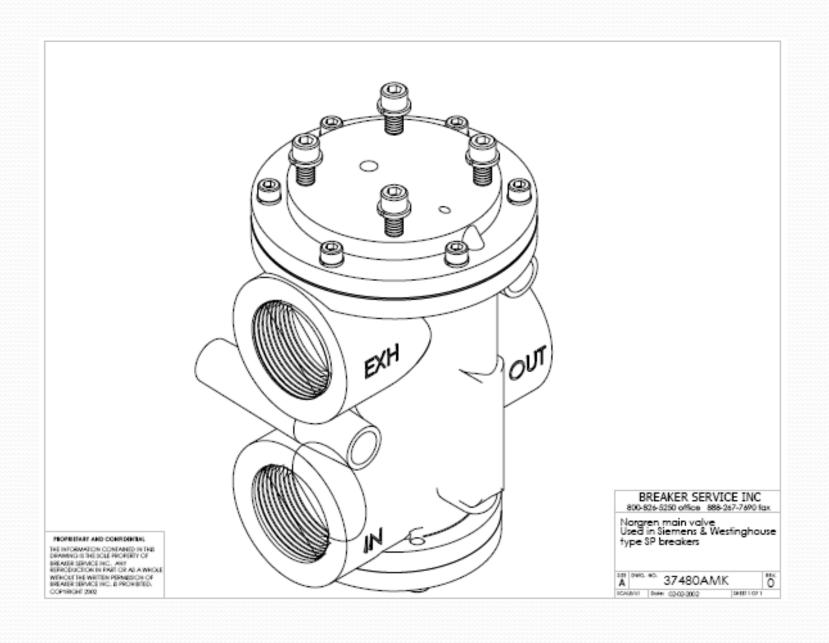
Norgren Pilot Valve with coil for 125vdc operation

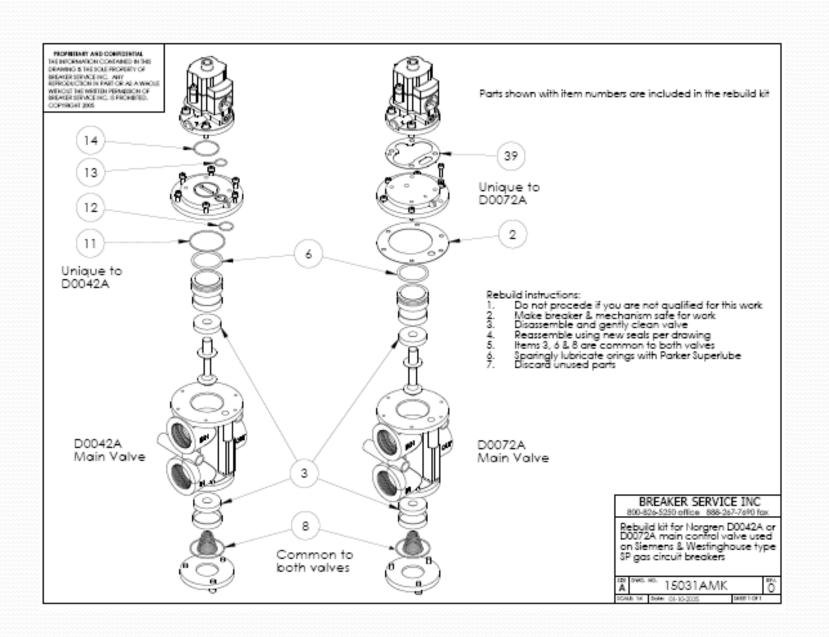
A DWG. NO. 37562AMK

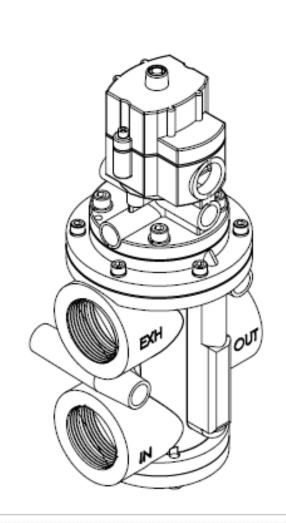
TOMBRE 964 0240-0002

\$88811 GP 1







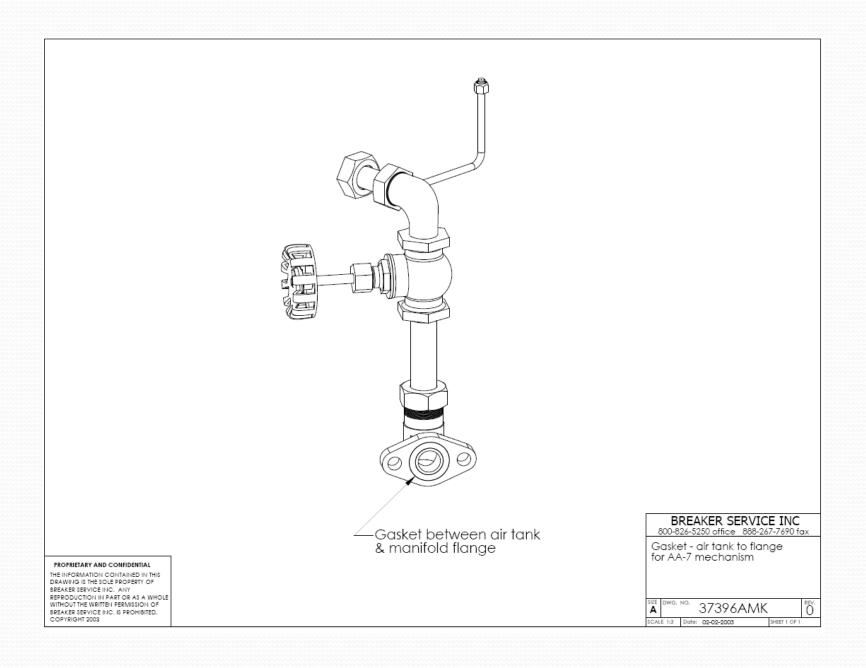


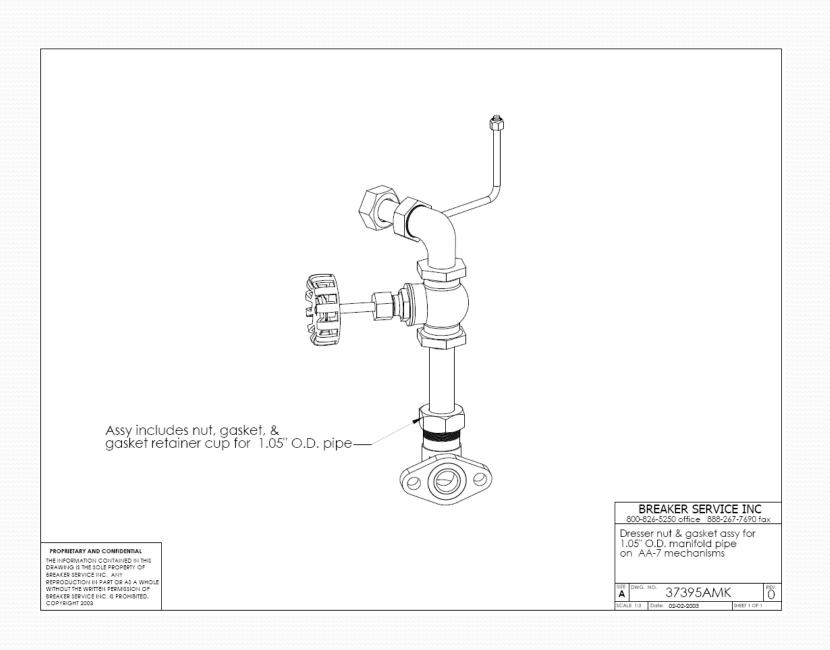
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Norgren pilot & main valve assembly with coil for 125vdc operation. Used in Siemens & Westinghouse type SP breakers

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DCA	UBTAT	\$100ml	02409-2002	S88811 GP 1	







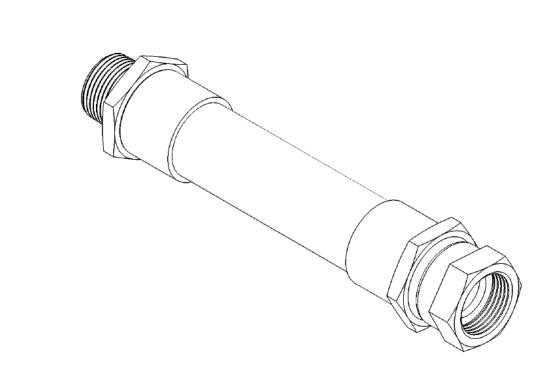
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BREAKER SERVICE INC 800-826-5250 office 888-267-7690 fax

Dresser nut & gasket assy for 0.875" O.D. manifold pipe on AA-7 mechanisms

37394AMK

Date: 02-02-2003



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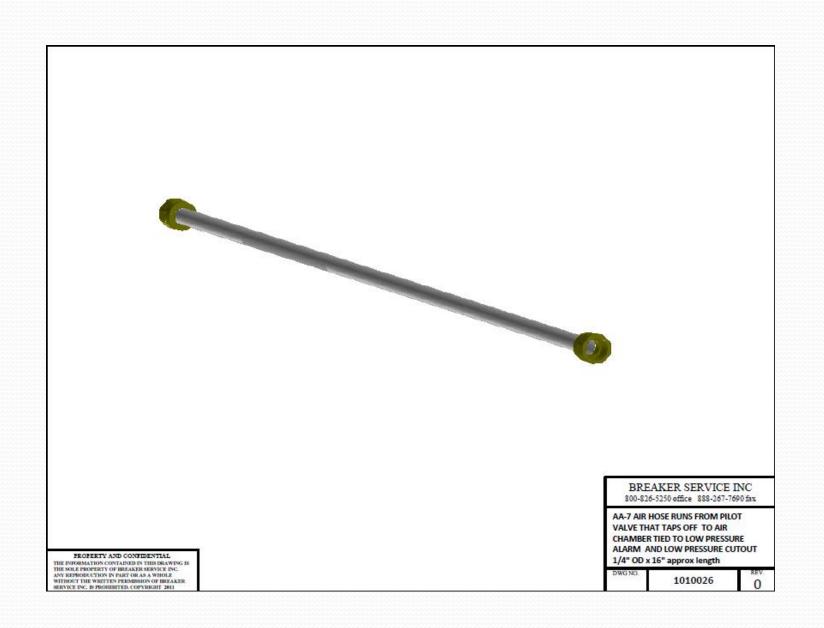
BREAKER SERVICE INC 800-826-5250 office 888-267-7690 fax

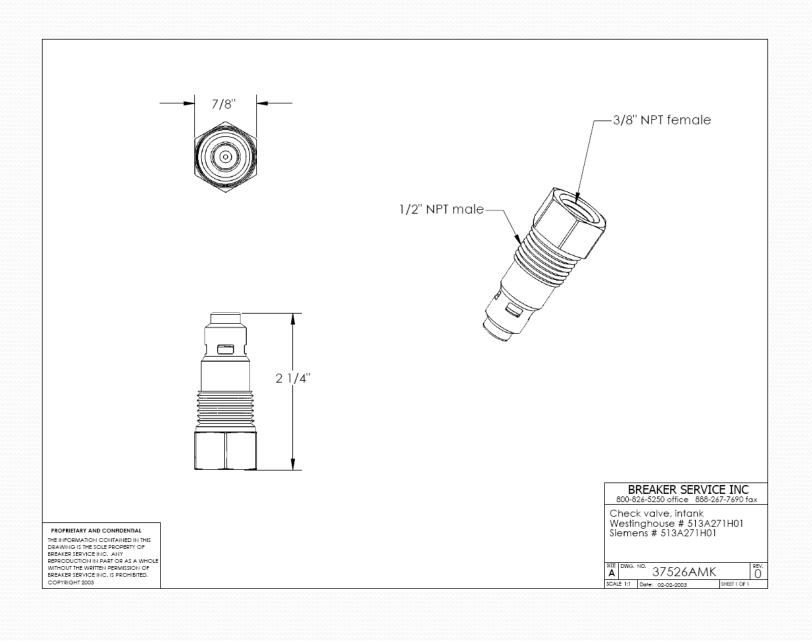
3/4" Hose for AA-7 mechanisms on westinghouse OCBs Westinghouse part # 2283C33H08

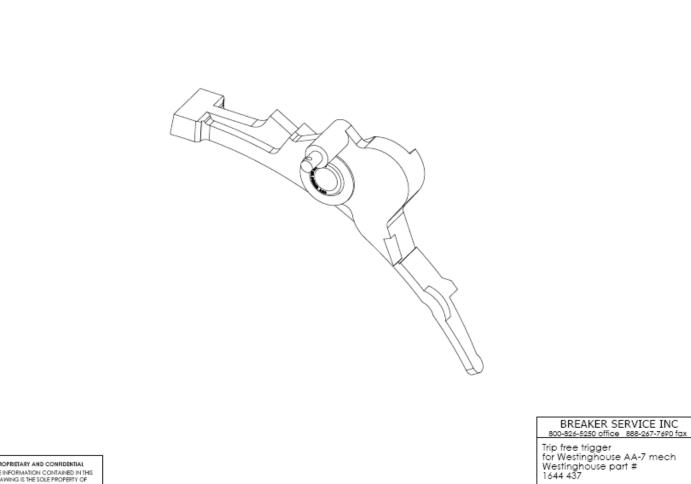
38035AMK

Date: 02-02-2003

SHEET 1 OF 1





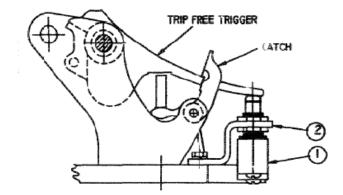


38310AMK

SCALE 1:1 Dolle: 05-15-2004

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ITEM	BSI#	DESCRIPTION	OEM	QTY
1	37606AMK	SWITCH	5861B73H01	1
2	37607AMK	BRACKET	5861B59H01	1
3		DRAWING	8931C34G01	1



INSTRUCTIONS

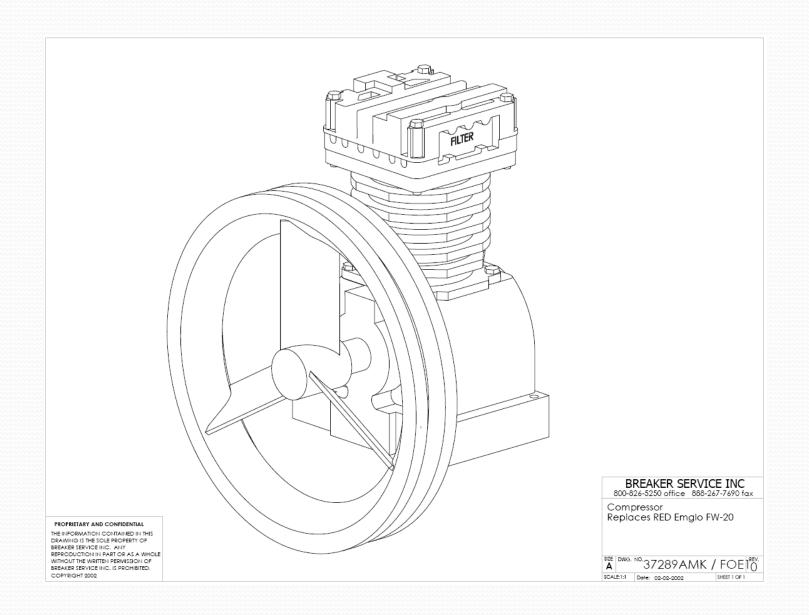
THE FUNCTION OF THE LATCH CHECK SWITCH IS TO INSURE THAT THE MECHANISM IS COMPLETELY RETRIEVED AND THE TRIP FREE LATCH SYSTEM IS FULLY ENGAGED BEFORE ANY CLOSING OR RECLOSING OPERATION IS ATTEMPTED ELECTRICALLY.

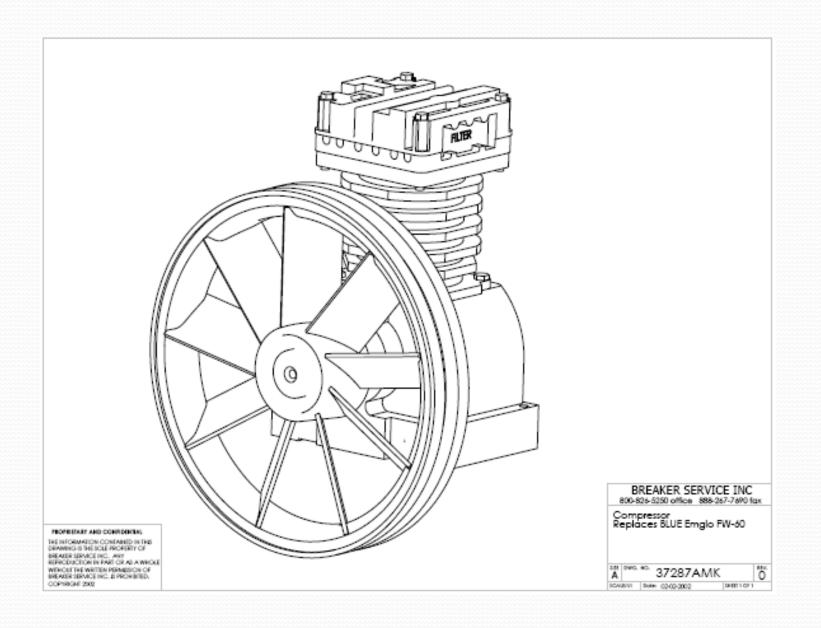
BEFORE ATTEMPTING TO REPLACE THE SWITCH OPEN THE BREAKER AND ADJACENT DIS-CONNECT SWITCHES, DE-ENERGIZE ALL CONTROL AND AUXILLIARY POWER. CLOSE THE MAIN HAND SHUTOFF VALVE BETWEEN THE RESERVOIR AND THE CONTROL VALVE. DEPRESS MOMENTARILY THE PUSHBUTTON ON THE PIOT VALVE TO EXHAUST THE HIGH PRESSURE AIR BETWEEN THE SHUTOFF VALVE AND CONTROL VALVE. INSURE THE MECHANISM IS IN THE OPEN POSITION BEFORE REMOVING THE OLD SWITCH AND MTG BRACKET. INSTALL THE NEW MTG BRACKET WITHOUT THE SWITCH USING THE OLD MTG HARDWARE. INSTALL THE NEW SWITCH IN THE BRACKET AND ADJUST THE HEIGHT SO THE SWITCH "MAKES" CONTACT .03 TO .06 IN. BEFORE THE TRIP FREE TRIGGER AND CATCH ARE IN THE RESET POSITION. LISTEN FOR AN AUDIBLE "CLICK" FROM THE SWITCH. WIRE TO THE "NORMALLY OPEN" AND "COMMON" TERMINALS. PICTURE ON THIS DRAWING SHOW THE TRIGGER IN THE RESET POSITION WITH THE TRIP FREE LATCH SYSTEM ENGAGED AND SWITCH PLUNGER DEPRESSED TO .03 TO .06 IN BEYOND CONTACT "MAKE" POSITION.

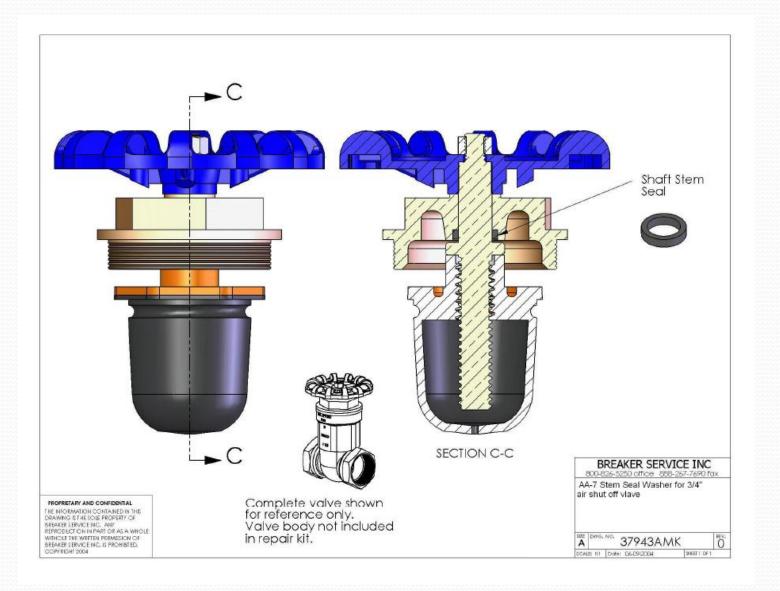
BREAKER SERVICE INC 800-826-5250 office 888-267-7690 fax

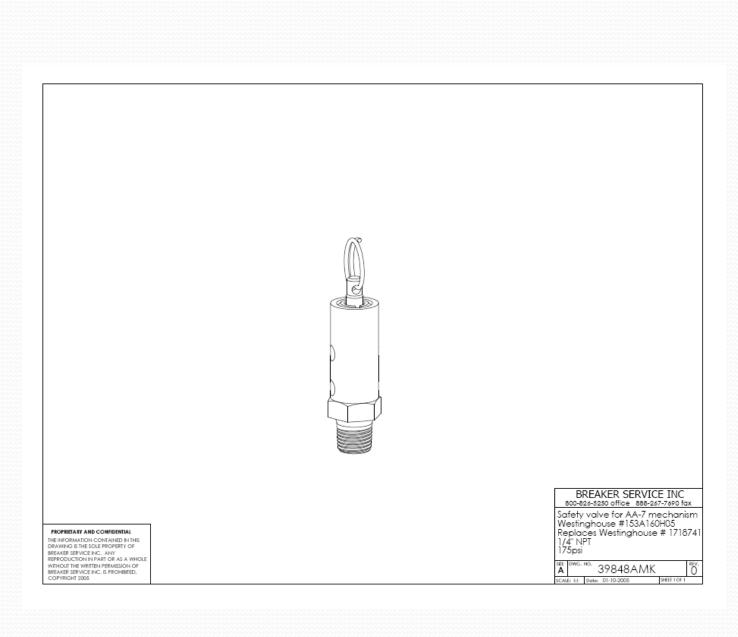
AA-7 LATCH CHECK SWITCH ASSEMBLY REPLACES OLD SWITCH 1644 439

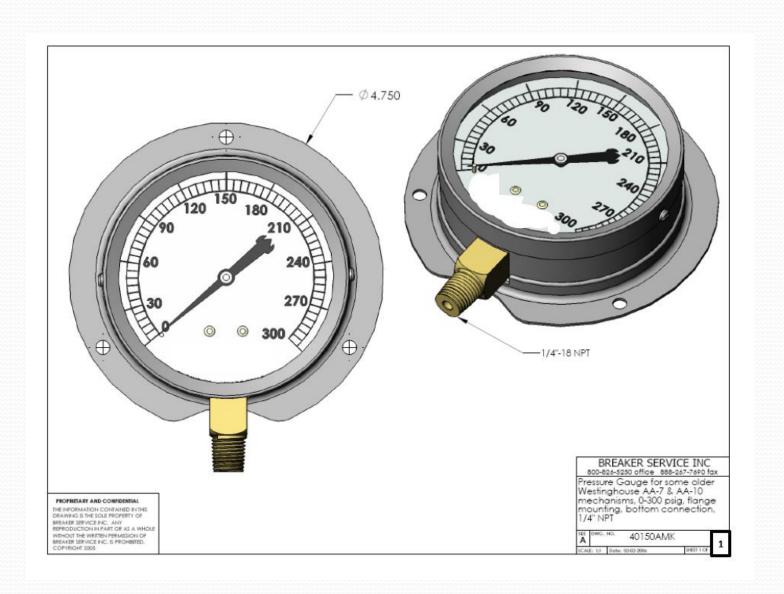
DWGNO

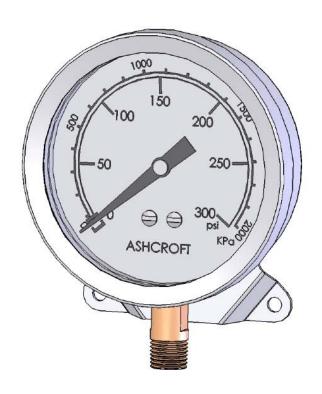










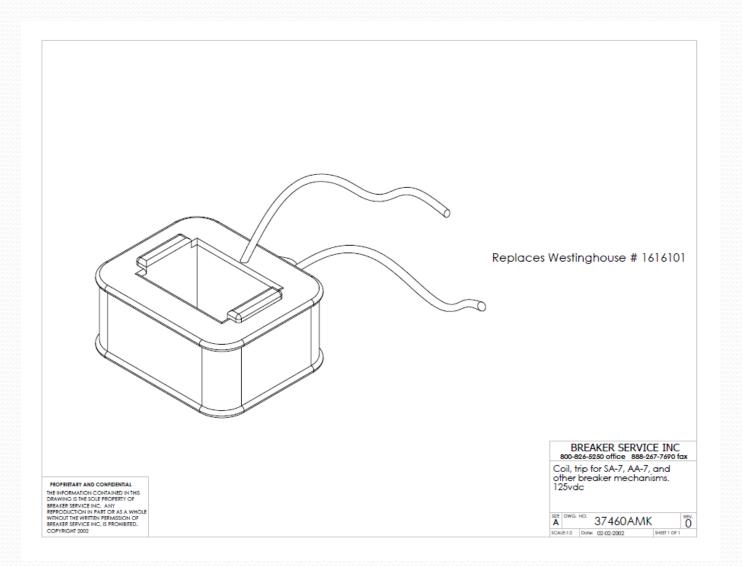


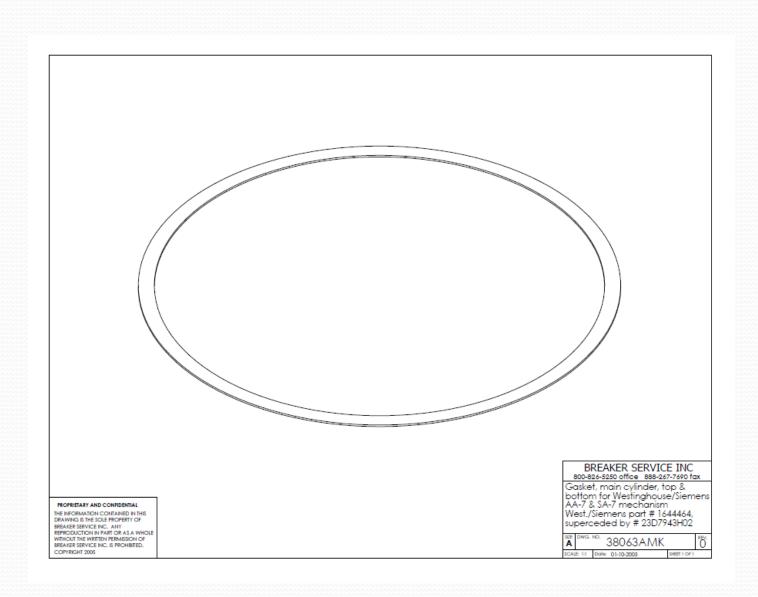
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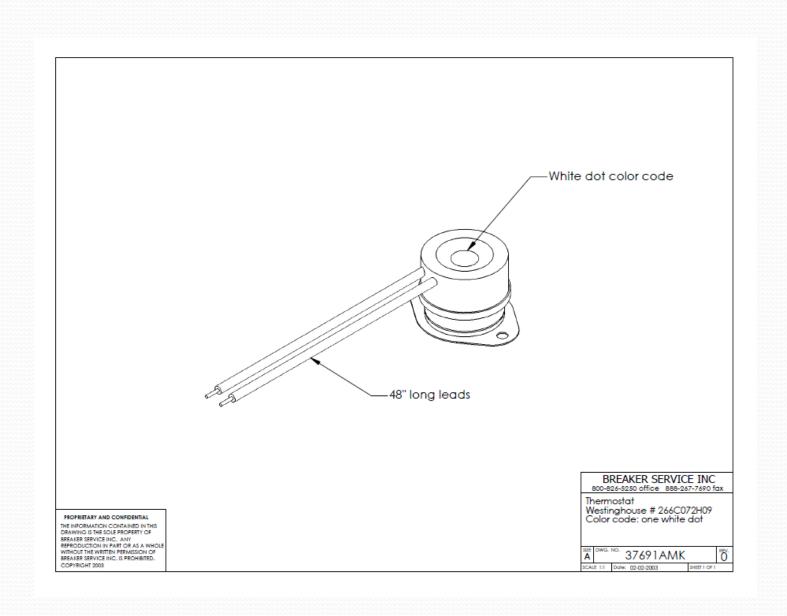
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Gauge, air pressure, used on Westinghouse and Siemens type SP breakers with AA-7 and SA-7 mechanisms. Westinghouse / Siemens part # 1650B29H03

A	DWG.	NO. 39949A	MK S	O REV.
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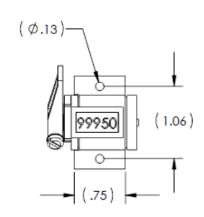


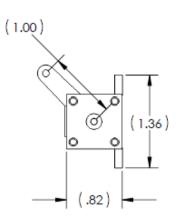


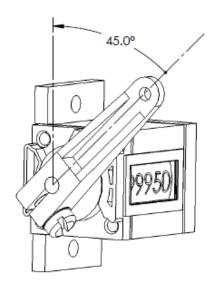




Rachet action is 45 degrees counter clock wise when looking into the shaft. The lever arm is adjustable 360 degrees.







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BREAKER SERVICE INC

800-826-5250 office 888-267-7690 fax

Operations counter for circuit breakers

a 37728AMK

CALE 2:1 Date: 02-02-2003

DEET 1 OF 1



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Operations Counter for Westinghouse AA-7 mech Westinghouse part # 491759

A	DWG.	NO. ,	38303AMK		Ö.
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AIR TANK FOR AA-7 or SA-7 MECH ON WESTINGHOUSE OR SIEMEN TYPE SP SF6 CIRCUIT BREAKERS

DWG NO.

39870AMK

REV.

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AIR TANK, WH AA-7 MECHANISM

37613AMK

REV.











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AIR TANK WESTINGHOUSE AA-7

OWG NO.

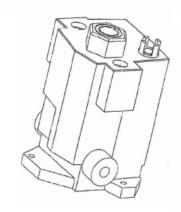
45230AMK

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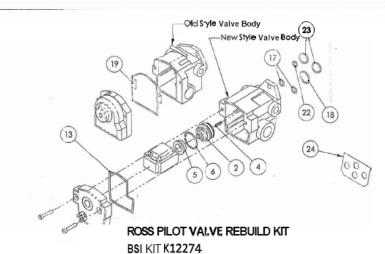
AA-10 MECHANISM

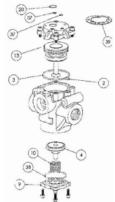


ROSS PILOT BSI PART 37450AMK









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

INCLUDE\$ QTY 1 EACH: 37450AMK, K12274, 37887AMK, 37169AMK & 37882AMK

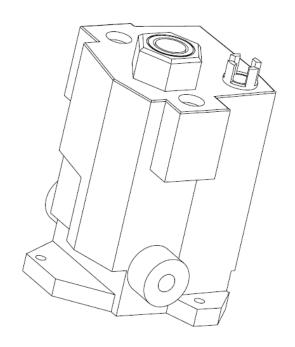
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ROSS VALVE FIRST AID KIT REPAIRS ALL ROSS MAIN & FILOT VALVES

SIZE DWG. NO. 38275AMK

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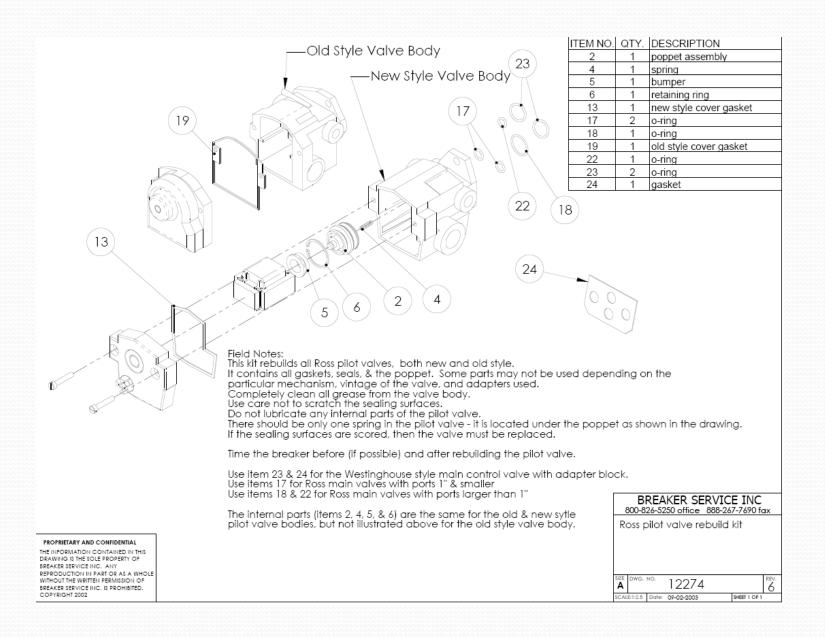
Ross Pilot Valve with coil for 125vdc operation

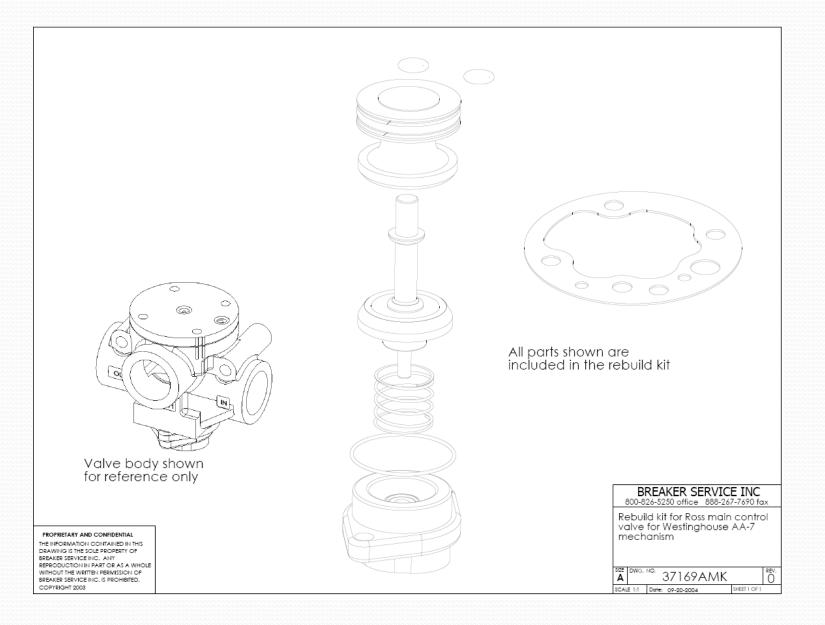
37450AMK

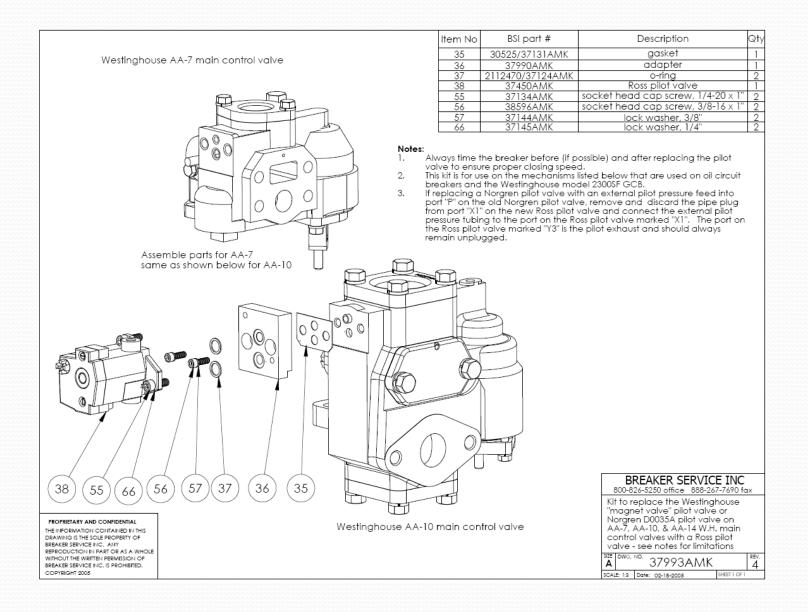
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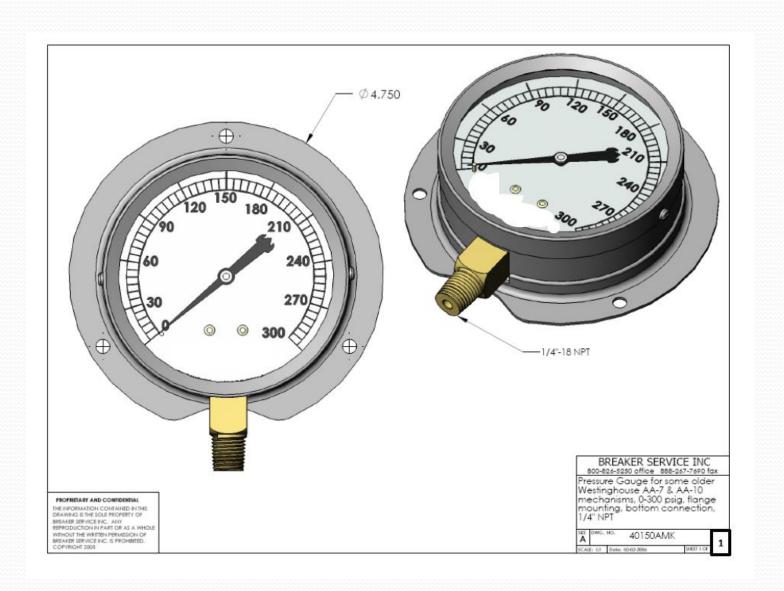
SCALE:1:1 Date: 02-02-2002

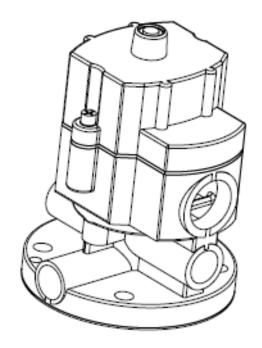
SHEET 1 OF 1











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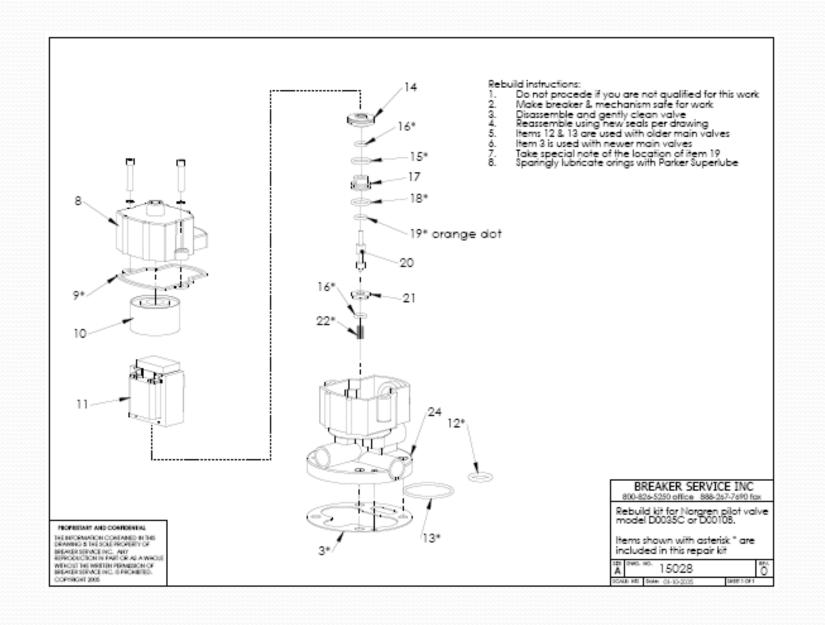
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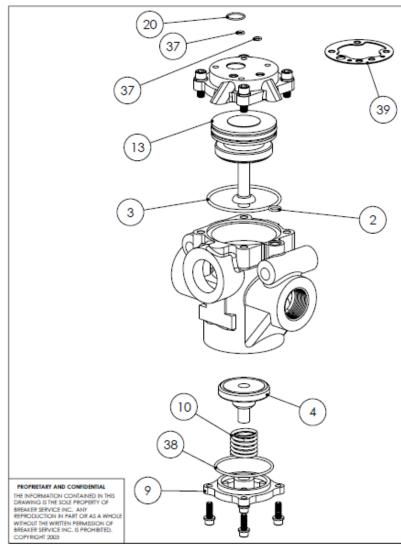
Norgren Pilot Valve with coil for 125vdc operation

A DWG. NO. 37562AMK

TOMBRE 964 02-02-2002

\$88811 GP 1





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.

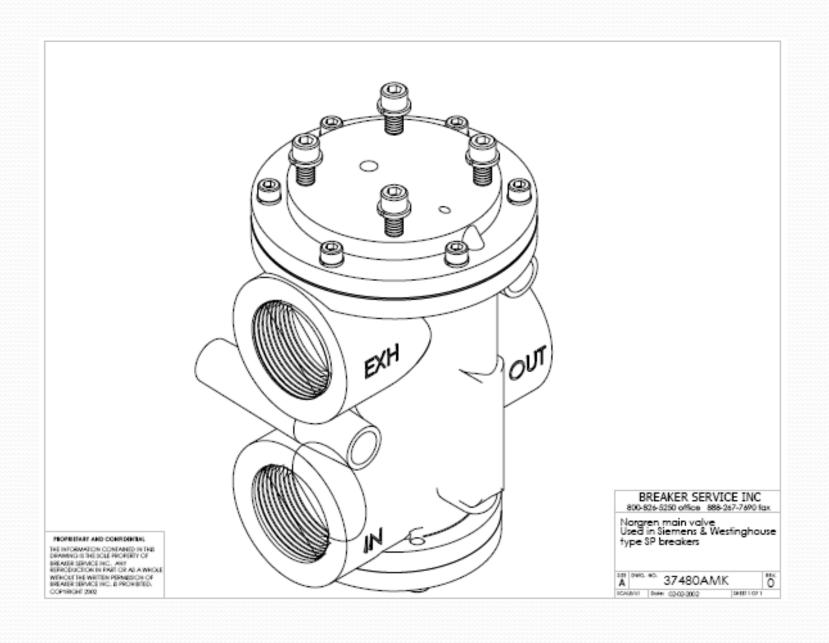
All the gakets and o-rings may not be necessary depending on the exact configuration of your control valve.

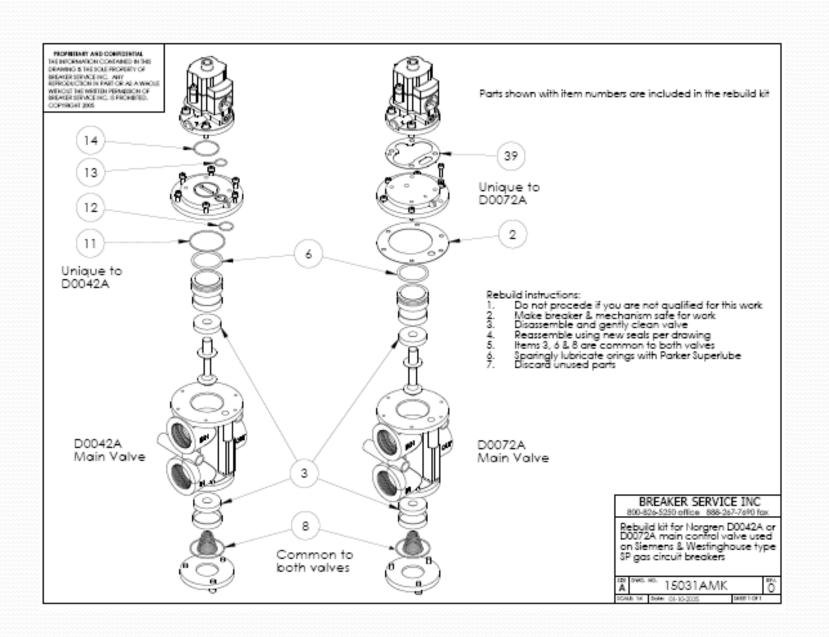
BREAKER SERVICE INC

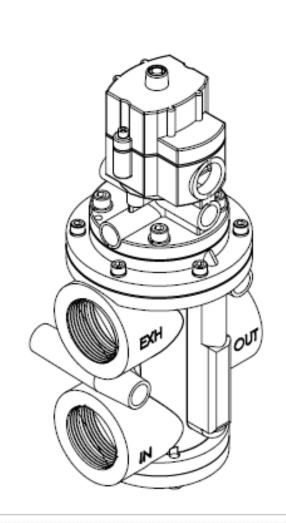
800-826-5250 office 888-267-7690 fax

Rebuild kit for Ross main control valves with 1-1/4" & 1-1/2" NPT ports.

A	DWG.	[№] 37882AMK	ő
SCA	IE 1:1	Date: 09-16-2003 SHEET LOF	1





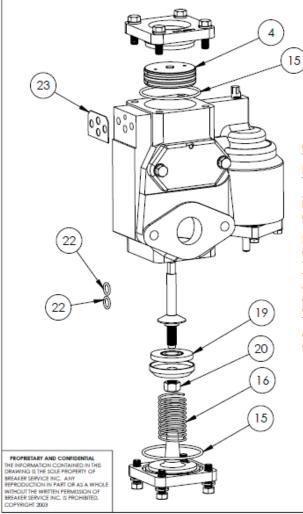


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Nargren pilot & main valve assembly with coil for 125vdc operation. Used in Siemens & Westinghouse type SP breakers

Ä	DWG.	90.	37479AMK		ő
DCA	PUG	Dole	02-02-2002	\$8881 LOFT	



ITEM NO.	QTY.	DESCRIPTION
4	1	Piston Assy - New Style
15	2	O-ring
16	1	Spring
19	1	Valve Disc
20	1	Lock Nut
22	2	Adapter Plate O-ring
23	1	Gasket

CAUTION !!!

The new piston is shipped with a white ring on it. DO NOT discard this ring.

This ring serves 3 functions:

A) To protect the piston, guide rings, and omniseal. B) As a re-sizing tool when the omniseal is installed.

C) As the installation tool to insert the piston into the valve.

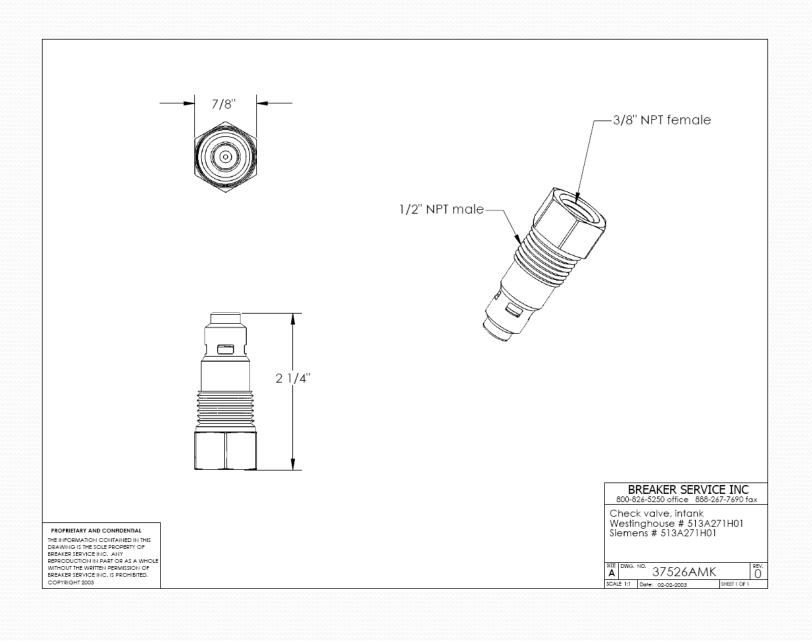
Failure to follow this instruction will cause concealed damage to the piston guide rings and omniseal. To install the piston, make sure that the hollow side of the piston is facing into the valve and at the bottom of the narrow end of the installation ring. Center the piston and installation ring over the bore and hold it flush with the face of the valve. Gently push the piston through the ring directly into the bore. This will prevent the guide rings and omniseal from expanding as they enter the bore, thus avoiding damage from the edge of the bore.

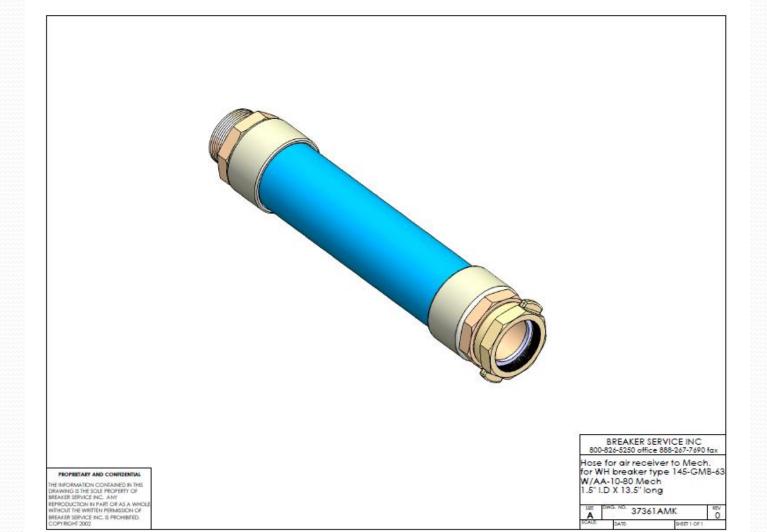
BREAKER SERVICE INC

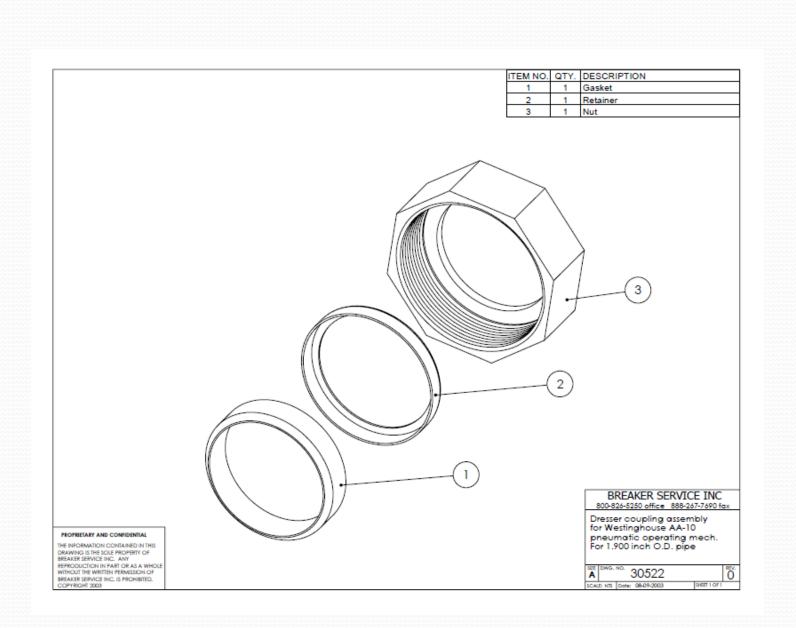
800-826-5250 office 888-267-7690 fax

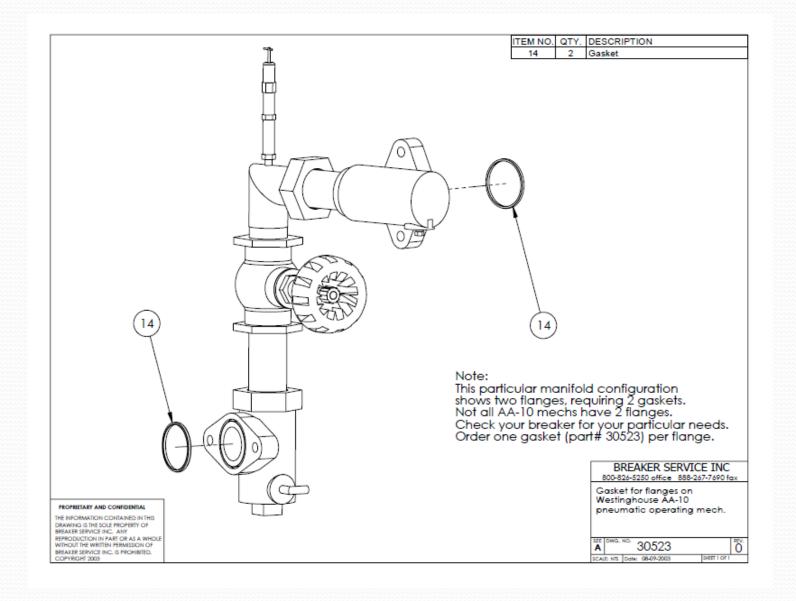
Kit to rebuild Westinghouse AA-10 mechanism control valve

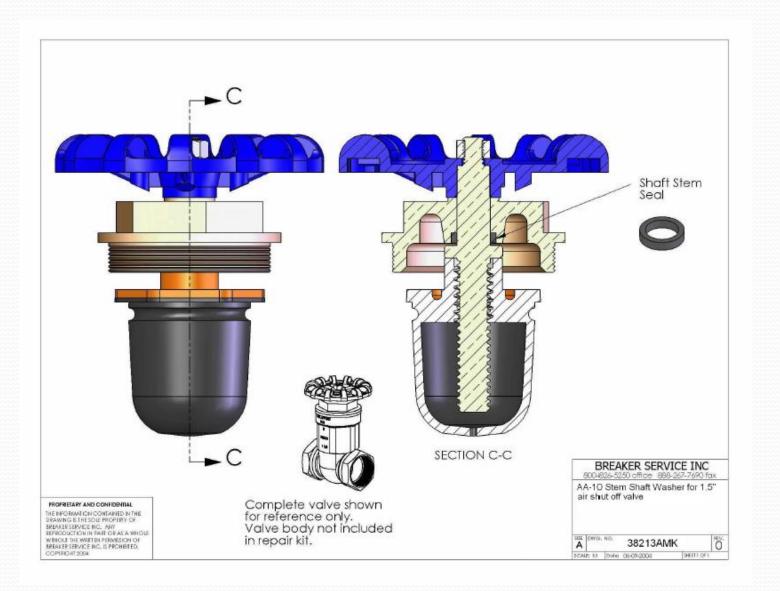
	A	DWG.	37652AMK		Õ
ı	SCAL	E: NTS	Date: 01-15-2003	SHEET LOFT	









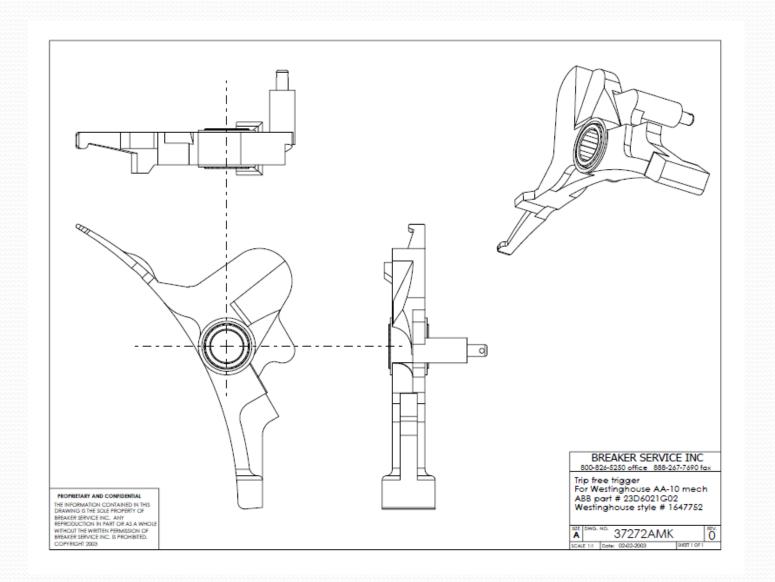




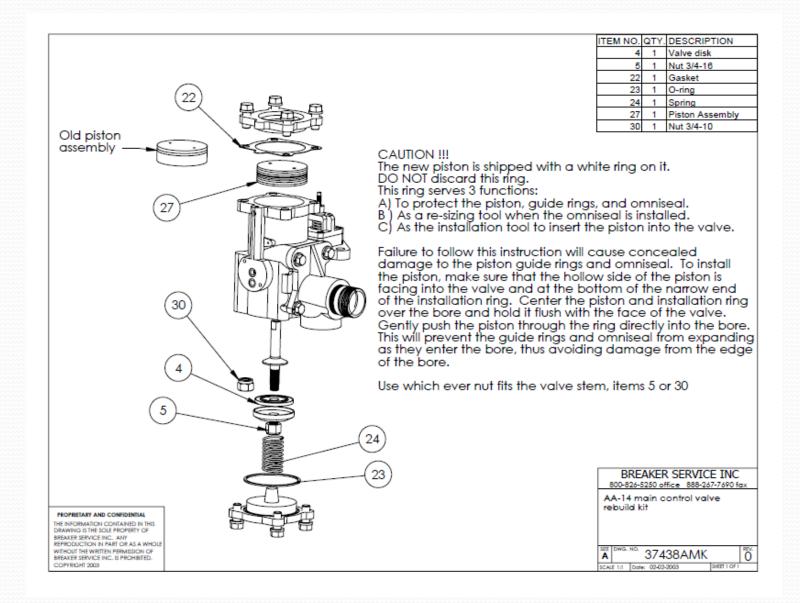
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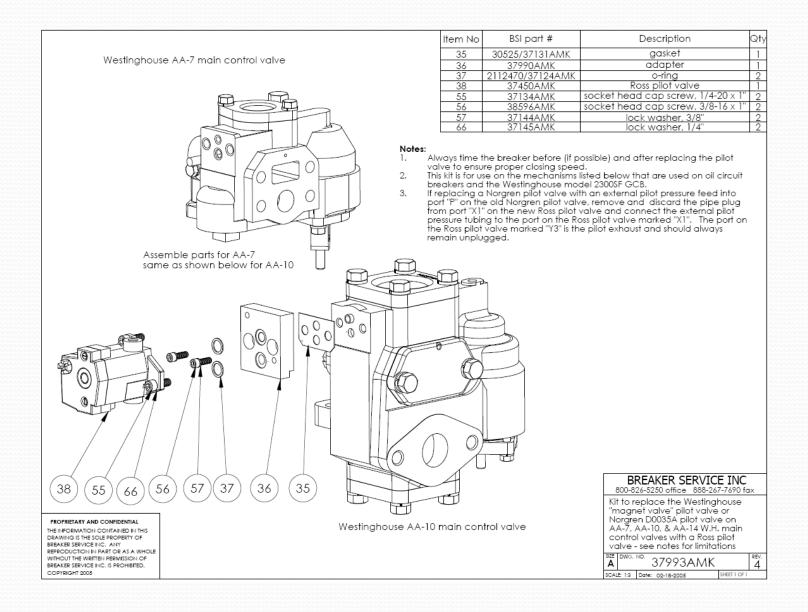
Operations Counter for Westinghouse AA-7 mech Westinghouse part # 491759

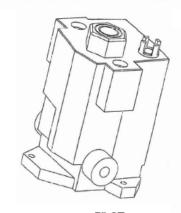
A	DWG.	NO. ,	38303AMK		Ö.
SCAL	E 1:1	Date:	05-15-2004	SHEET LOFT	



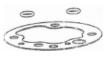
AA-14 MECHANISM



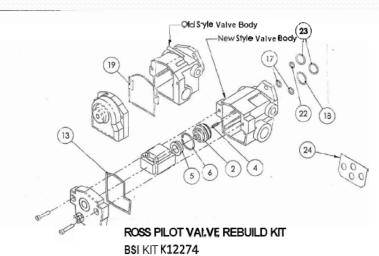


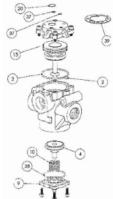


ROSS PILOT BSI PART 37450AMK









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

INCLUDE\$ QTY 1 EACH: 37450AMK, K12274, 37887AMK, 37169AMK & 37882AMK

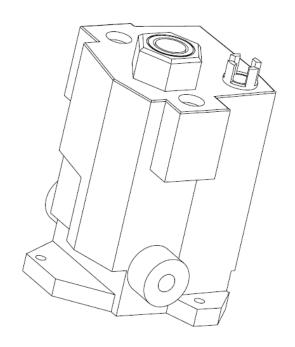
BREAKER SERVICE INC 800-326-5250 office 838-267-7690 fax

ROSS VALVE FIRST AID KIT REPAIRS ALL ROSS MAIN & FILOT VALVES

SIZE DWG. NG. 38275AMK PRET I OF I

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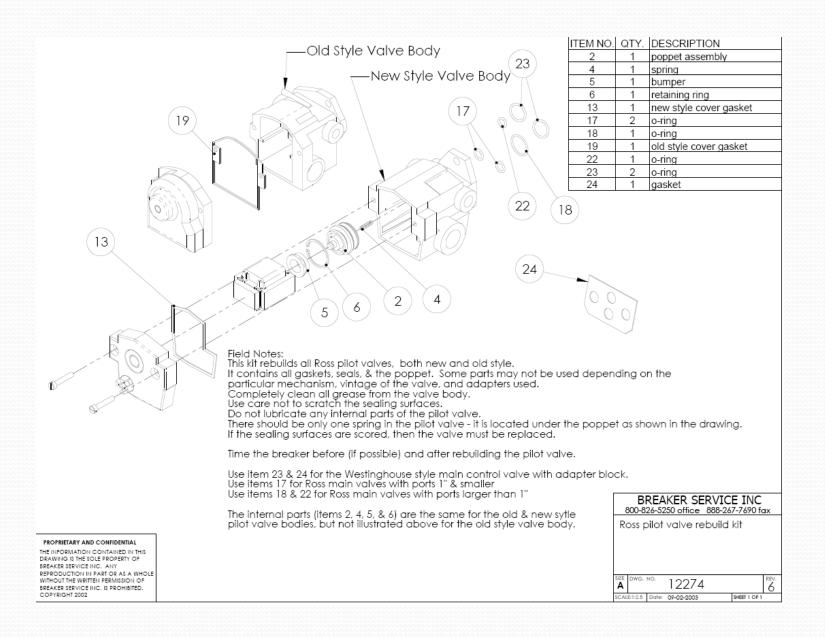
Ross Pilot Valve with coil for 125vdc operation

37450AMK

REV.

SCALE:1:1 Date: 02-02-2002

SHEET 1 OF 1

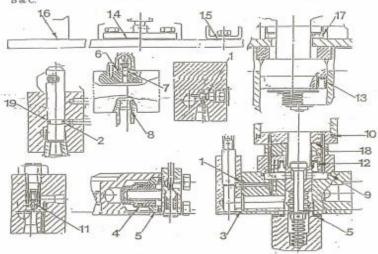


McGRAW EDISON OA-3 MECHANISM

PARTS NUMBERS ARE FOR REFERENCE ONLY. WE DO NOT IMPLY THAT ANY OF THESE PARTS WERE SUPPLIED BY, OR WERE APPROVED BY THE ORIGINAL EQUIPMENT MANUFACTURER. McGRAW EDISON

REF	QTY	PART	REPLACES	REF	QTY	PART	REPLACES
1	2	2 0084	223 116 008	10	1	2 1494	223 116 149
2	1	2 1114	223 116 111	11	1	2 0134	223 116 013
3	1	2 1134	223 116 113	12	1	31128	223 091 112
4	1	2 1154	223 116 115	12	1	37595AMK	223 091 113
5	2	2 2164	223 116 216	13	1	31127	223 091 111
6	1	2 2184	223 116 218	13	.1	37541AMK	223 091 110
7	1	2 0154	223 116 015	14	1	31125	FA 13060
8	1	3 9244	223 116 924	15	1	31124	FA 13061
9	1	2 2284	223 116 228	16	1	31123	FA 13062
9	1	2 2344	223 116 234	17	1	31122	FA 11956
10	1	2 2314	223 116 231	18	1	31121	FA 12802
10	1	2 1414	223 116 141	19	1	8 1114	223 202 111

*NOTE: There are additional parts provided in the kit to accommadate mechanism type OA-3A, B & C.

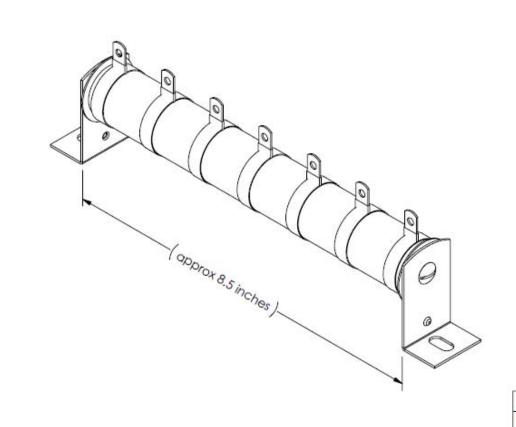


FC 10616 OA-3 MECHANISM

BREAKER SERVICE, EVC. 1880 S. CYPRESS STREET, SUTTE D LA HABBA, CALIFORNIA 19671

> PHONE: 880-826-5250 FAX: 888-267-7690

MECHANISM GC 10616 0A-3 FC 10616 0A-3 12308



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BREAKER SERVICE INC

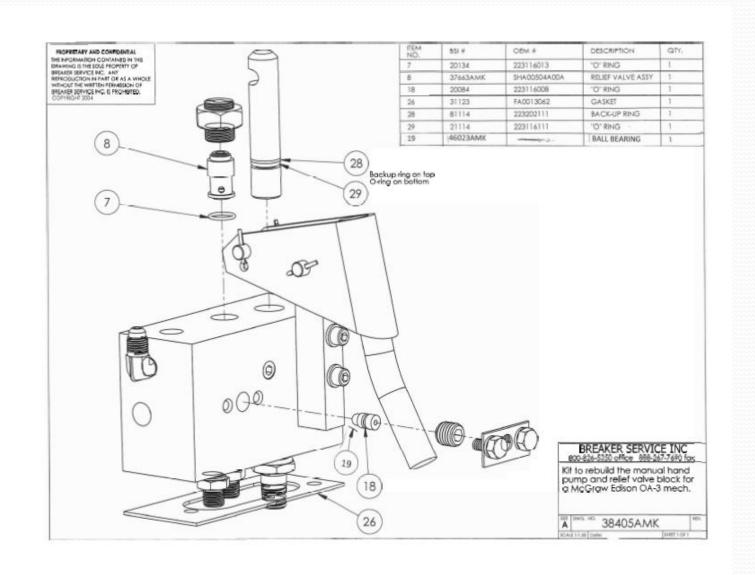
800-826-5250 office 888-267-7690 fax

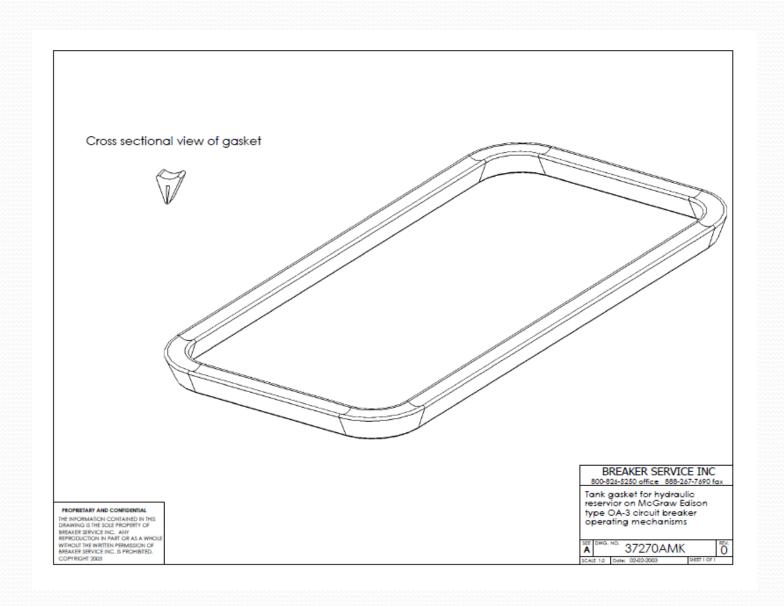
Resistor, multi tap, from 5 to 10 ohms by 1 ohm increments. Used in various Fed Pacific, McGraw Edison, & Cooper circuit breaker mechanisms

37626AMK

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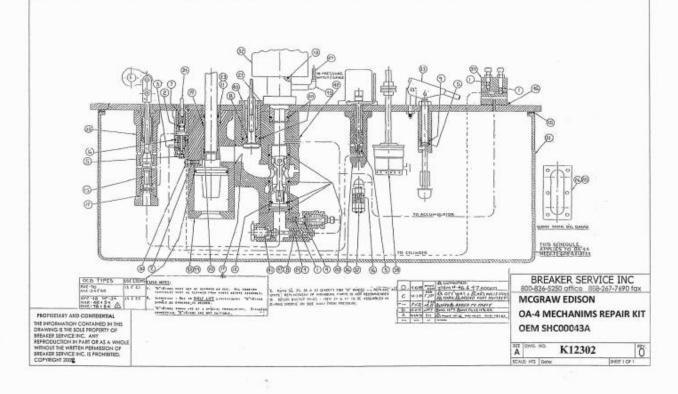
SCALE: NTS | Date: 01-06-2003



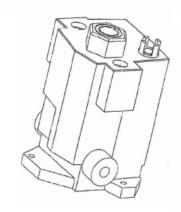


McGRAW EDISON OA-4 MECHANISM

OTY	ITEM	DESCRIPTION	OEM	BSI #	OTY	ITEM	DESCRIPTION	OEM	BSI#	QTY	ITEM	DESCRIPTION	OEM	BSI#
3	1	ORING	223116010	2 0104	1	- 11	ORING	223116325	2 3254	2	21	BACKUP RING	223202459	42 345
2	2	ORING	223116012	2 0124	1	12	ORING	223116326	2 3264	2	22	BACKUP RING	223202456	42 346
1	3	ORING	223116110	2 1104	1	13	ORING	223116349	2 3494	2	23	BACKUP RING	223202435	42 325
2	4	ORING	223116111	2 1114	1	14	ORING	223116346	2 3464	1	24	- BACKUP RING*	223202209	40 111
3	- 5	ORING	223116113	2 1134	1	15	ORING	223116114	2 1144	- 1	25	GASKET	223171001	39292AMX
1	6	ORING	223116115	2 1154	1	16	ORING	223116013	2 0134	- 1		COTTER PIN	Committee of	33997AMX
1	7	ORING	223116211	2 2114	2	17	ORING	223116225	2 2254	1	26	GASKET	FA0004126	39295AMK
2	8	ORING	223116212	2 2124	1	18	ORING	223116924	3 9244	2	27	GASKET	FA0003388	39296AMX
T	9	ORING	223116214	2 2144	1	19	ORING	223116227	2 2274	1	46	GASKET	EZ0021985	39294AMK
1	10	ORING	223116222	2 2224	6	20	ORING	223116228	2 2284	-1	47	BACKUP RING	223202217	39298AMK



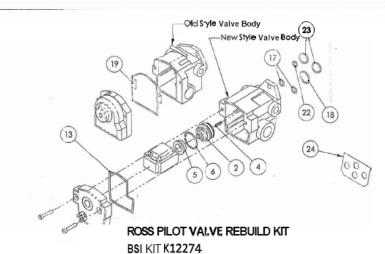
ROSS ITEMS

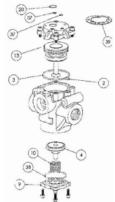


ROSS PILOT BSI PART 37450AMK









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

INCLUDE\$ QTY 1 EACH: 37450AMK, K12274, 37887AMK, 37169AMK & 37882AMK

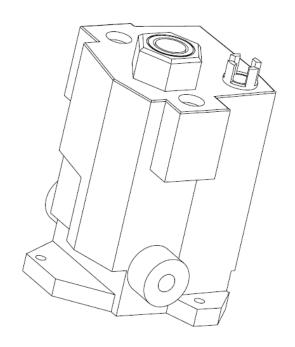
BREAKER SERVICE INC 800-326-5250 office 838-267-7690 fax

ROSS VALVE FIRST AID KIT REPAIRS ALL ROSS MAIN & FILOT VALVES

SIZE DWG. NO. 38275AMK

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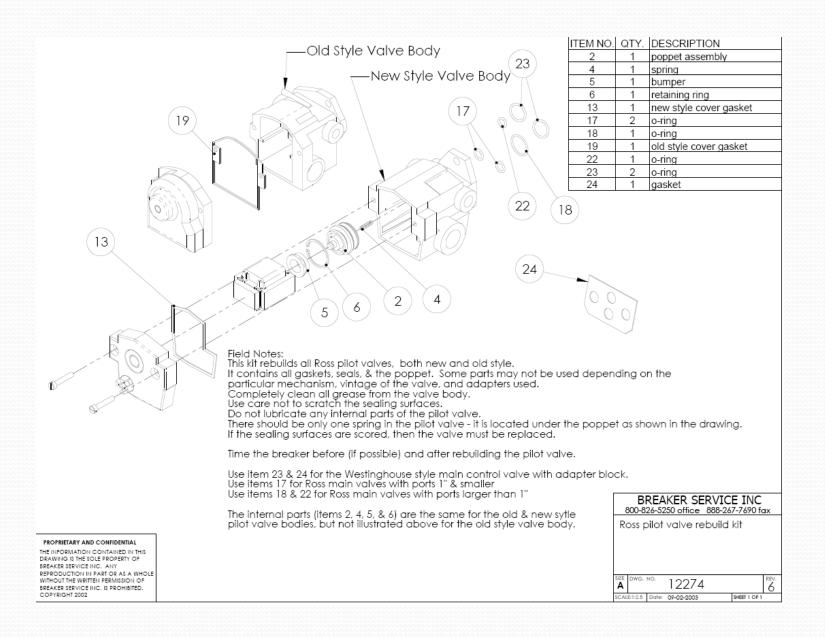
Ross Pilot Valve with coil for 125vdc operation

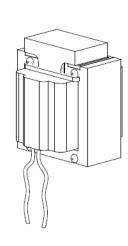
37450AMK

REV.

SCALE:1:1 Date: 02-02-2002

SHEET 1 OF 1



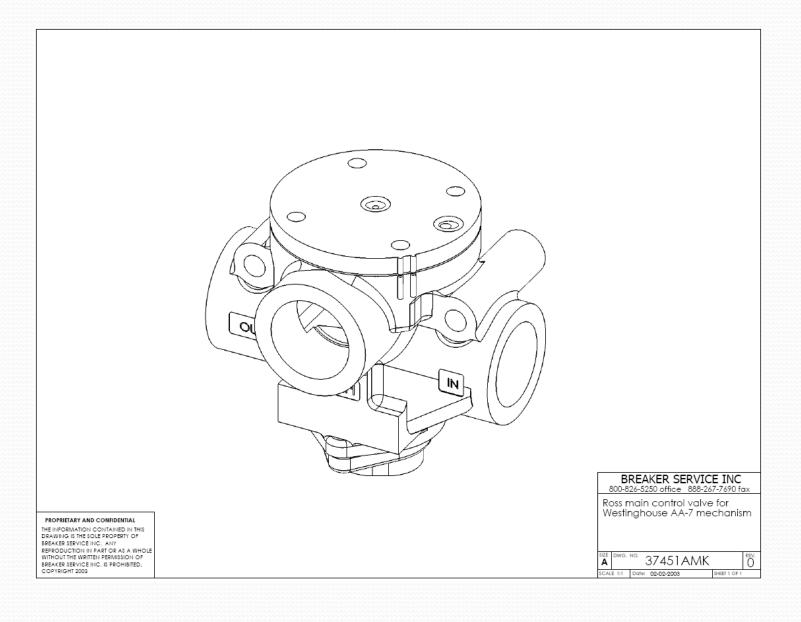


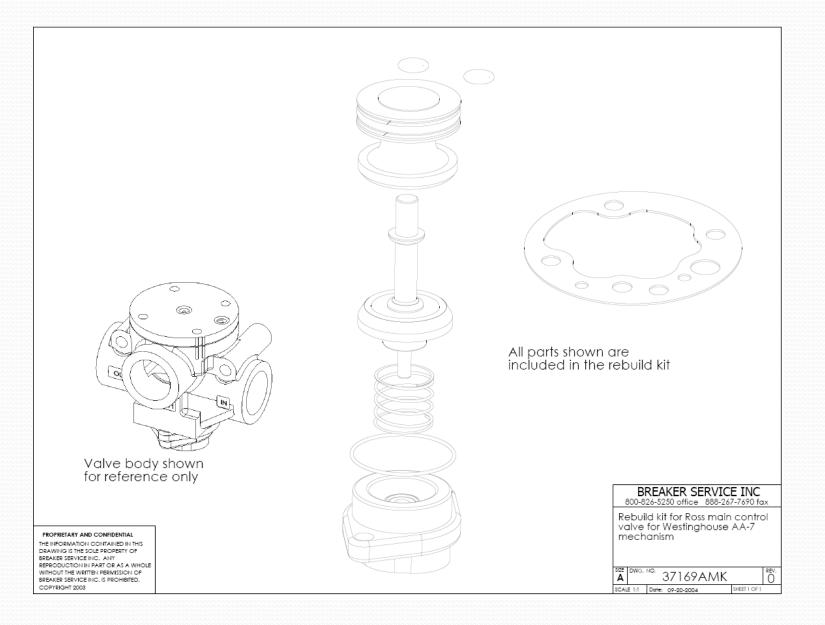
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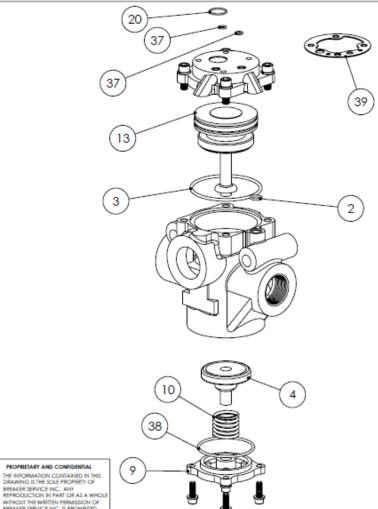
BREAKER SERVICE INC 800-826-5250 office 888-267-7690 fax

Solenoid assembly for all Ross pilot valves. Universal coil can be used for 48vdc, 125vdc, and 250vdc

A.	DWG.	NO.	38168AMK		Ĉ
SCAL	E 1:1	Date:	05-10-2004	SHEET 1 OF 2	







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

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 gakets and o-rings may not be necessary depending on the exact configuration of your control valve.

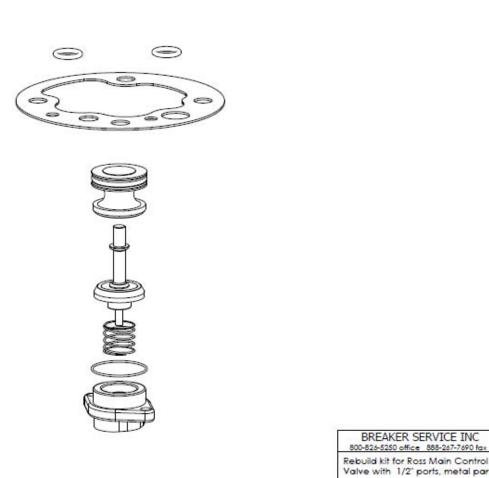
BREAKER SERVICE INC

800-826-5250 office 888-267-7690 fax

Rebuild kit for Ross main control valves with 1-1/4" & 1-1/2" NPT ports.

A	DWG.	37882AMK		Õ
SCA	E 1:1	Date: 09-16-2003	SHEET 1 OF 1	

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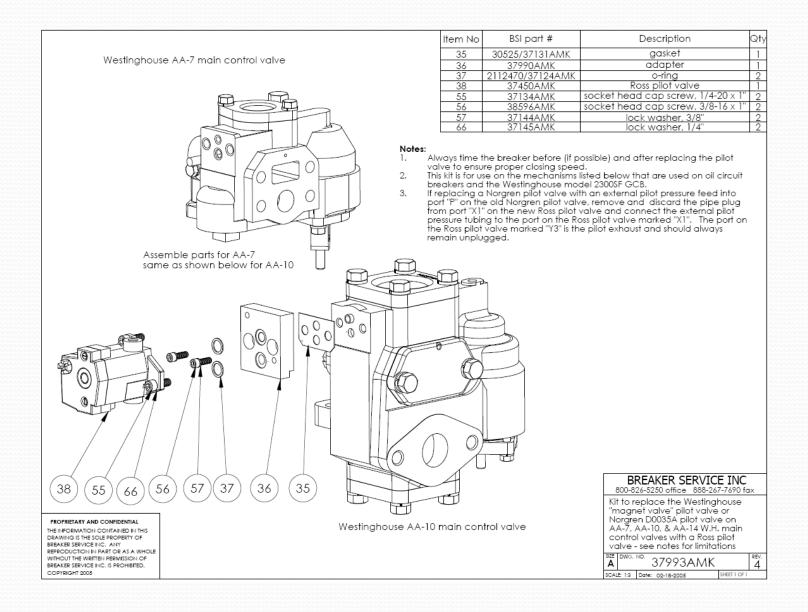
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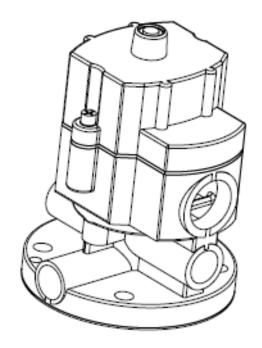
Rebuild kit for Ross Main Control Valve with 1/2" ports, metal parts

37887AMK

SCALE: HTS Date: 01-15-2003



NORGREN ITEMS



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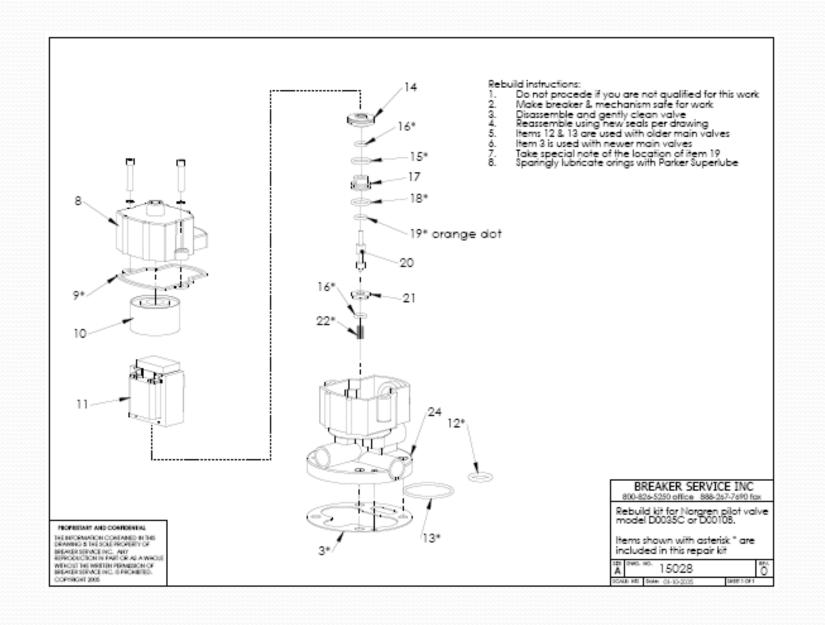
BREAKER SERVICE INC 800-826-5250 office 888-267-7690 fax

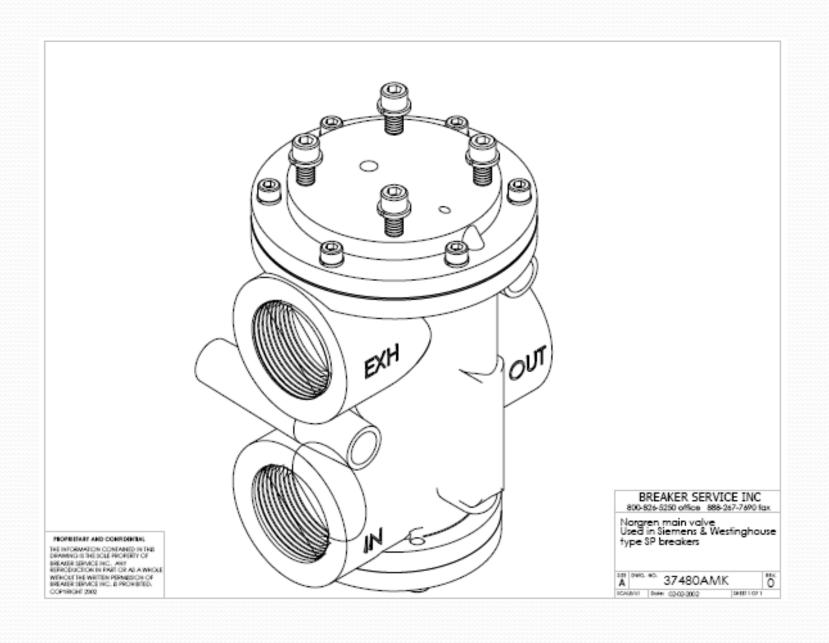
Norgren Pilot Valve with coil for 125vdc operation

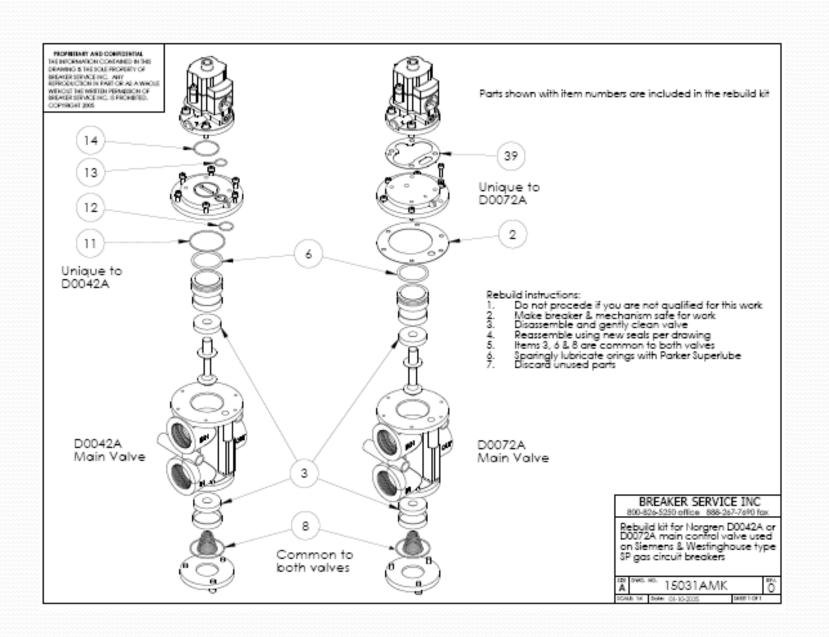
A DWG. NO. 37562AMK

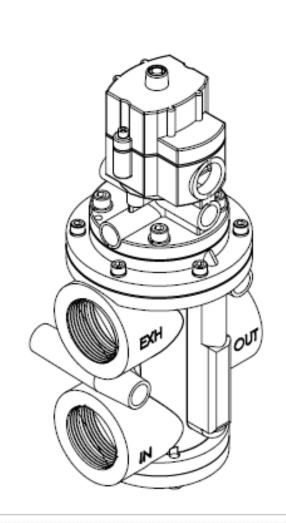
TOMBRE 964 0240-0002

\$88811 GP 1









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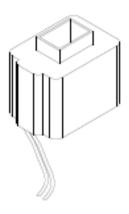
BREAKER SERVICE INC 800-826-5250 office 888-267-7690 fax

Norgren pilot & main valve assembly with coil for 125vdc operation. Used in Siemens & Westinghouse type SP breakers

Ä	DWG.	90.	37479AMK		ő
DCA	UBTAT	\$100ml	02409-2002	S88811 GP 1	

Coil Assembly shown for reference only See BSI part # 37062AMK for complete assembly





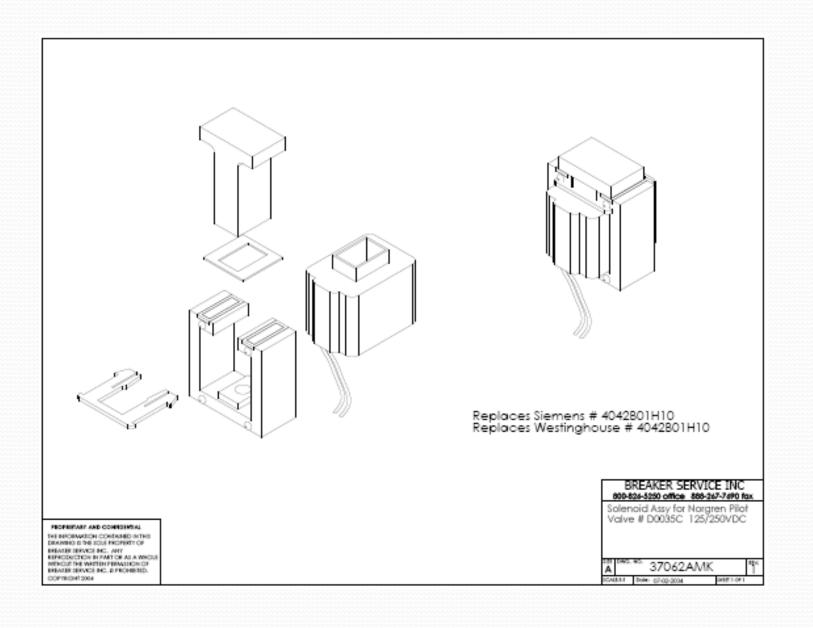
PROPRIEMEY AND COMPONENTIAL

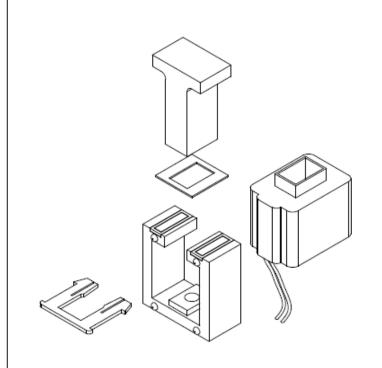
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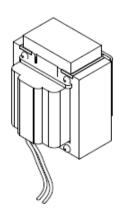
BREAKER SERVICE INC 809-826-5250 office 888-267-7490 fax

Solenoid Coil Only for Norgren Pilot Valve # D0035C 125 /250 VDC

Ā	DWG. N	° 37650AMK		1
CARL	44	Sode: 403 on 100 a	DOMESTIC: NO.	_







Replaces Siemens # 4042B01H09 Replaces Westinghouse # 4042B01H09

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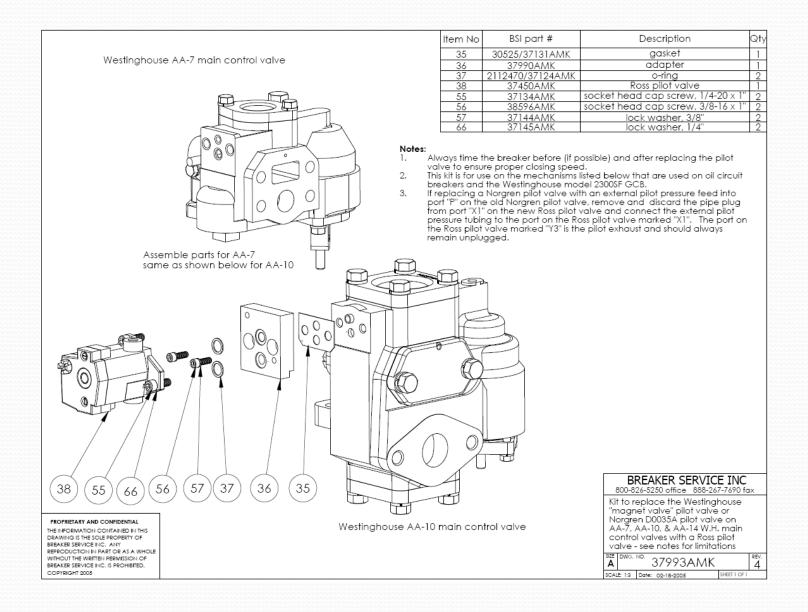
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Solenoid Assy for Norgren Pilot Valve # D0035C 48 VDC

A	DWG. N	io. ,	38218AMK		Ö.
SCAL	R1:1	Date:	07-09-2004	SHEET LOFT	



AIR TANKS









AIR TANK FOR AA-7 or SA-7 MECH ON WESTINGHOUSE OR SIEMEN TYPE SP SF6 CIRCUIT BREAKERS

DWG NO.

39870AMK

REV.

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AIR TANK, WH AA-7 MECHANISM

37613AMK

REV.











AIR TANK WESTINGHOUSE AA-7

OWG NO.

45230AMK

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Air Tank

for GE MA-16-9 breaker mechanims. Tank is located outside under the cabinet, GE type FK-115-5000-2, 115 kv CB

WG NO.

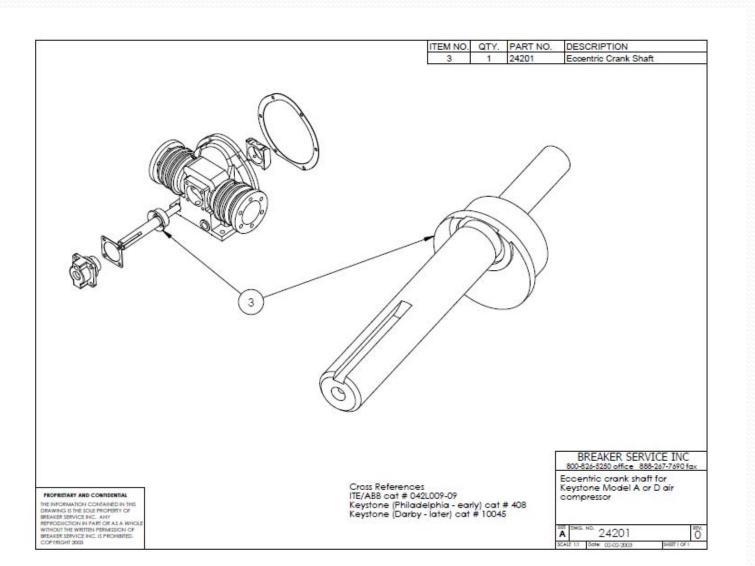
38333AMK

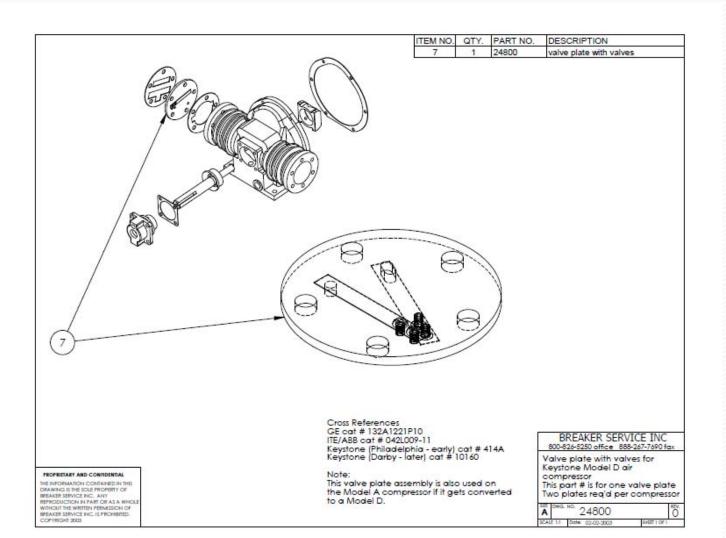
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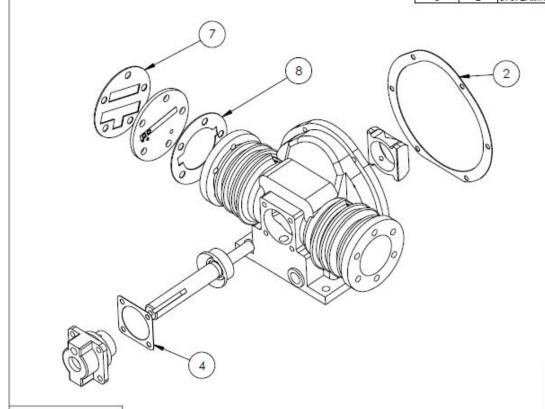


KEYSTONE COMPRESSOR ITEMS





ITEM NO.	QTY.	PART NO.	DESCRIPTION
2	1	37669AMK	Gasket, oil cover
4	1	37670AMK	Gasket, main bearing
7	2	37671AMK	Gasket, cylinder head, outside
8	2	37672AMK	Gasket, cylinder head, inside



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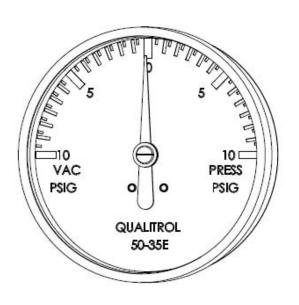
800-826-5250 office 888-267-7690 fax

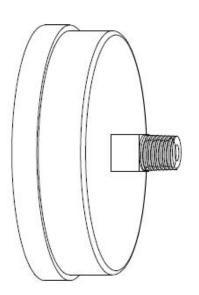
Gasket kit for Keystone Model D air compressor

37673AMK SCALE 1:3 Date: 02-02-2003



MISC ITEMS



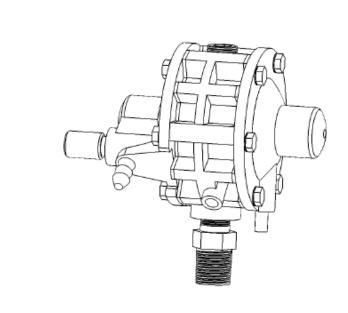


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BREAKER SERVICE INC 800-826-5250 office 888-267-7690 fax

Gauge, pressure / vacuum Range +10 / -10 psig Qualitrol part # 50-35E Used on transformer Nitrogen systems.

A	DWG.	37408AN	1K
25.44	E 1-1	Date: 00.00.0003	1940011-04



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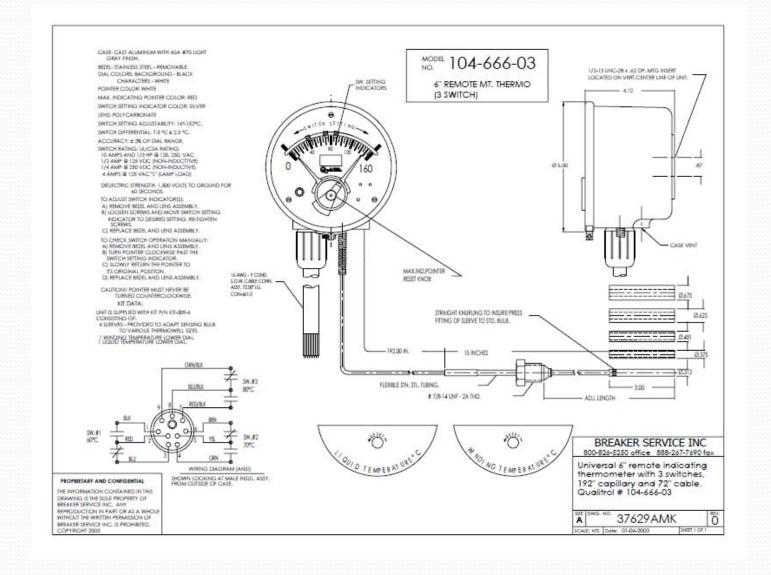
800-826-5250 office 888-267-7690 fax

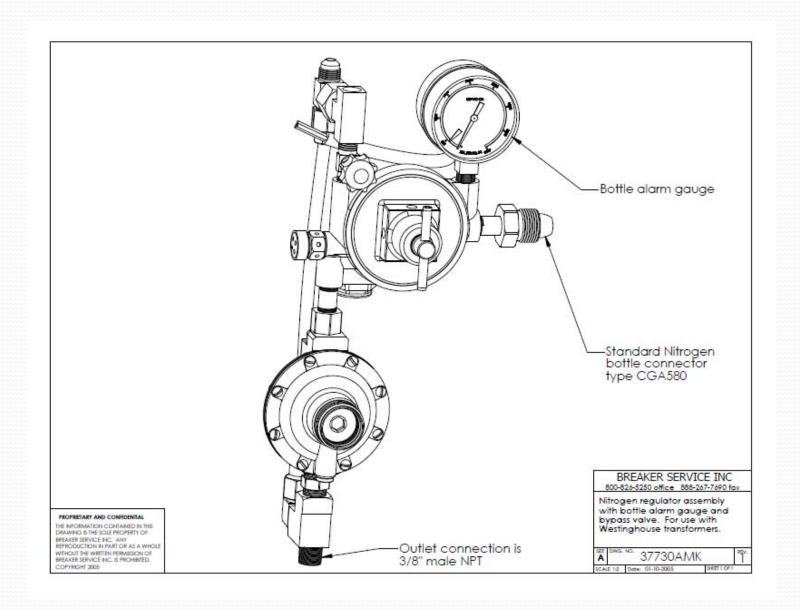
Pressure/Vaccum Bleeder Qualitrol # 351-2A Set at +5 / -5 psi

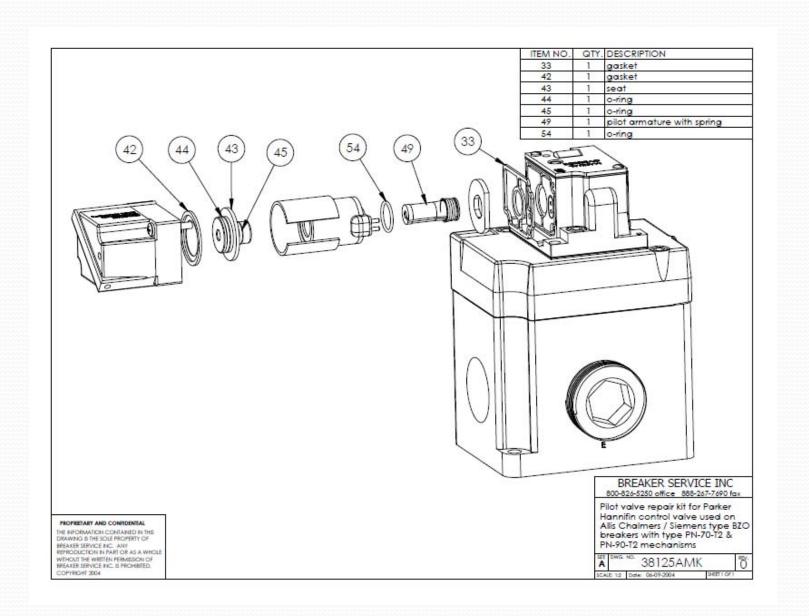
37409AMK

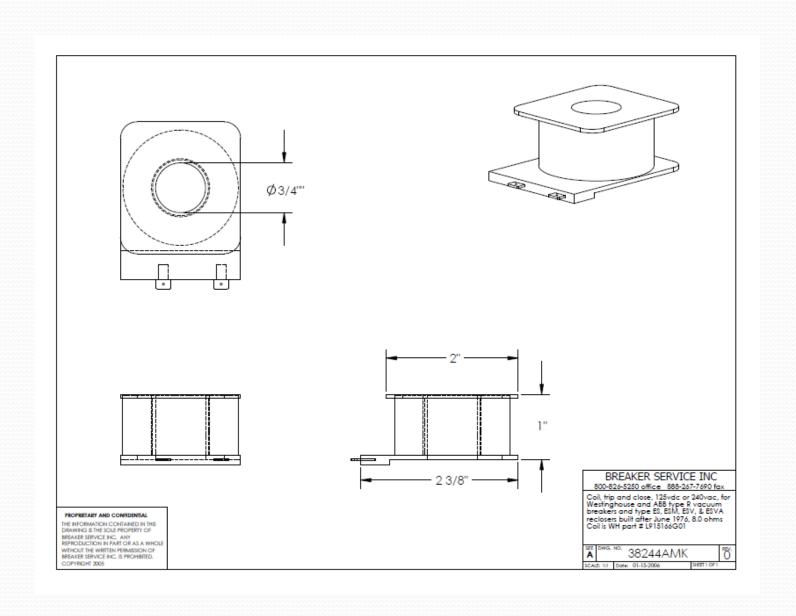
SCALE 1:1 Date: 02-02-2003

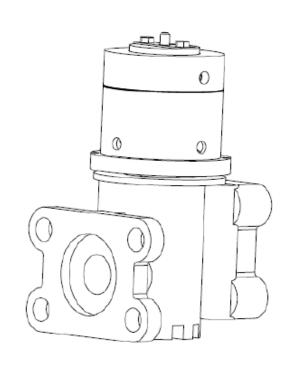
CET 1 OF 1











MA-14 thru 18

CUSTOMER NEEDS TO PROVIDE: MECHANIS TYPE, VOLTAGE AND COIL NUMBER

DWG NO.

37440AMK?

REV

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