

Valco Boardrunner glue station daily Maintenance

Cleaning glue head:

Should be carried out at the end of every shift

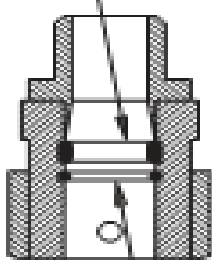
- Press and hold the spring clamp button to remove the valve assembly.
- Remove the glue applicator head from the glue valve by releasing the snap lock fitting.
- Install the applicator head onto the tap connection
- Turn tap on and flush water through the glue applicator head and remove any glue from around the head.
- Install Brass seal cap onto glue valve to prevent glue drying in valve.

- At end of every shift the glue unit must be cleaned down and all dried glue removed, and same for glue inspection sensor. **DO NOT USE METAL OBJECTS TO CLEAN GLUE PARTS**

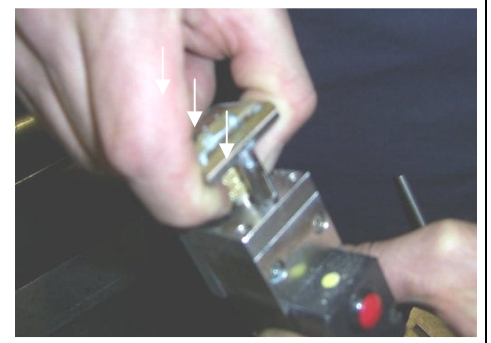
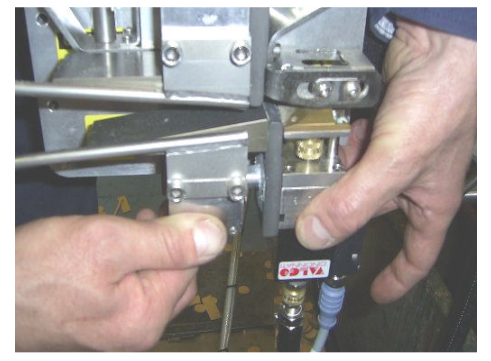
- Check condition of Brass fittings, and ensure fittings lubricated regularly to ensure they do not become sticky, use the proper grease gun & Grease.

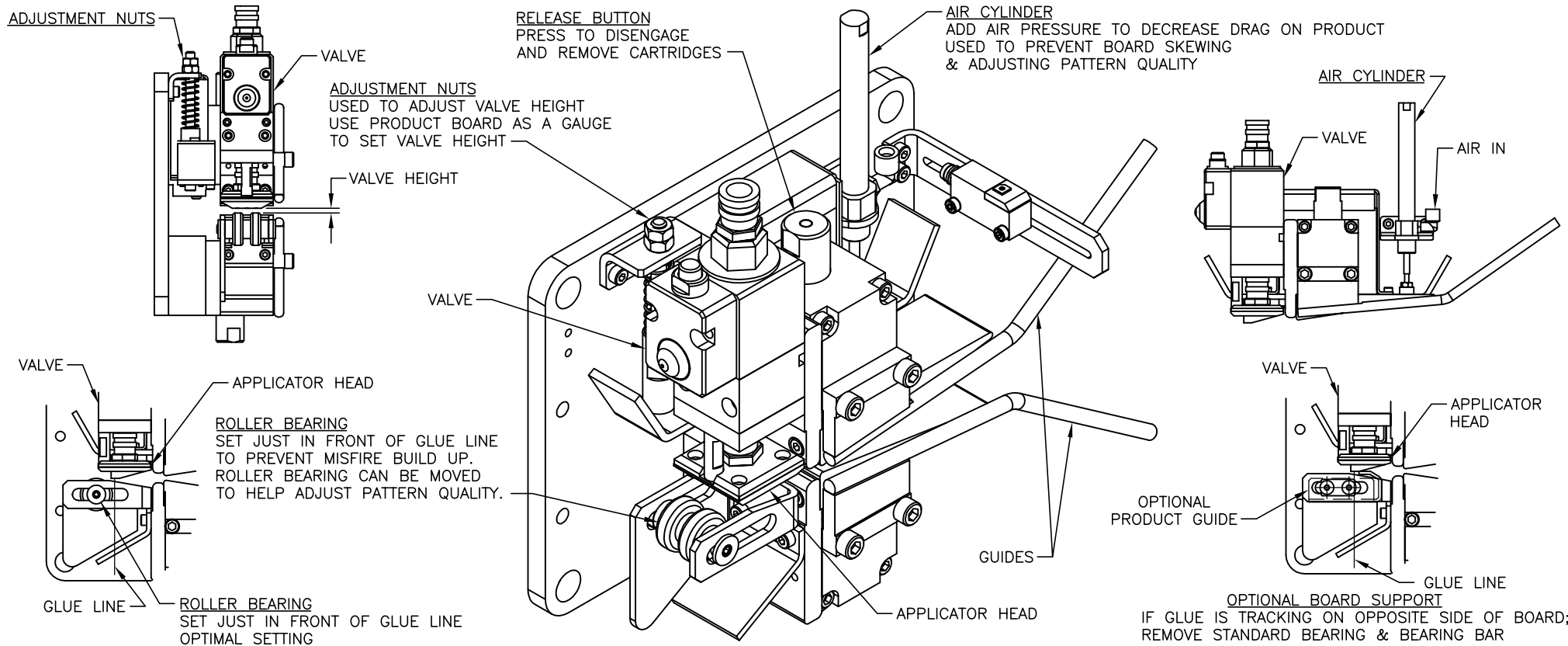
- Check condition of the Flat Viton Seal on the fittings for swelling where glues use solvents.

FLAT VITON SEAL



VITON "O" RING
(BLACK)





BOARDRUNNER GLUE STATION

OPTIONAL BOARD SUPPORT
 IF GLUE IS TRACKING ON OPPOSITE SIDE OF BOARD;
 REMOVE STANDARD BEARING & BEARING BAR
 AND REPLACE W/ 582XX705 PRODUCT GUIDE.
 POSITION GUIDE UNDER APPLICATOR HEAD.
 DO NOT BLOCK GLUE PORTS.

SETUP INSTRUCTIONS:

- 1) ADJUST THE ROLLER BEARING SO THAT IT IS JUST SLIGHTLY AHEAD OF THE APPLICATOR HEAD DISCHARGE HOLES.
- 2) ADJUST VALVE HEIGHT BY TURNING THE ADJUSTMENT NUTS. USE A PRODUCT BOARD TO SET THE VALVE HEIGHT, THE BOARD SHOULD PASS FREELY UNDER THE HEAD.
- 3) MOUNT THE BOARDRUNNER GLUE STATION TO THE MACHINE. MAKE SURE THAT THE ANGLE OF THE GLUE STATION IS PARALLEL TO THE FOLDING RAIL OF THE MACHINE. RUN A BOARD UP TO THE GLUE STATION TO CHECK THE ANGLE AND HEIGHT OF THE GLUE STATION. THE BOARD SHOULD PASS THROUGH THE MIDDLE OF THE GLUE STATION GUIDES.
- 4) RUN A FEW BOARDS THROUGH THE GLUE STATION TO CHECK THE VERTICAL MOVEMENT OF THE VALVE. THE VALVE MAY RAISE SLIGHTLY IF ANY AS THE BOARD PASSES UNDER THE APPLICATOR HEAD. IF THE VALVE RAISES MORE THAN 1/8" (3,2mm), READJUST THE VALVE HEIGHT USING THE ADJUSTMENT SCREWS. THE APPLICATOR HEAD SHOULD JUST TOUCH THE BOARD AS IT PASSES THROUGH THE GLUE STATION. YOU MAY HAVE TO ADJUST THE ENTIRE GLUE STATION UP/DOWN DEPENDING ON THE AMOUNT OF MOVEMENT.
- 5) IF SKEWING OF THE BOARD OCCURS AS IT PASSES THROUGH THE GLUE STATION, AIR PRESSURE CAN BE ADDED TO THE AIR CYLINDER TO RELIEVE SOME OF THE WEIGHT OF THE VALVE.
- 6) IF GLUE TICKS OCCUR WHEN THE STATION IS INSTALLED ON THE 4TH PANEL SIDE;
 - A) TRY ADJUSTING THE AIR PRESSURE FOR THE VALVE CONTACT UNTIL THE TICKS ARE ELIMINATED.
 - B) ENSURE THAT THE GLUE PATTERN IS AT LEAST 1/2" (12,7mm) AWAY FROM THE SCORE LINES. THIS WILL GIVE THE APPLICATOR HEAD A CHANCE TO WIPE OR CLEAN ITSELF BEFORE REACHING THE SCORE LINE.
 - C) READJUST THE VALVE HEIGHT WITH THE ADJUSTMENT NUTS WHEN CHANGING FROM A SINGLE WALL BOARD TO A DOUBLE WALL BOARD.



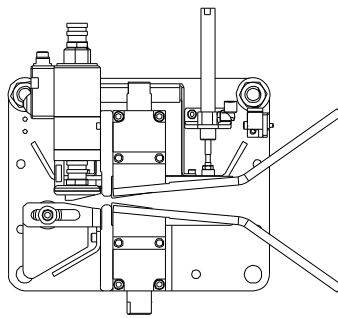
PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.

TITLE: SETUP INSTRUCTIONS BOARDRUNNER			DRAWING NUMBER: 999XA582-17		REV.: A ADDED OPTIONAL PRODUCT GUIDE
18NOV04 S.M.T.	06DEC04 SMT				
DRAWN BY: SMT	APPROVED BY: SMT	DATE: 17JUN04	SUPERSEDES SMT2787	SUPERSEDED BY	

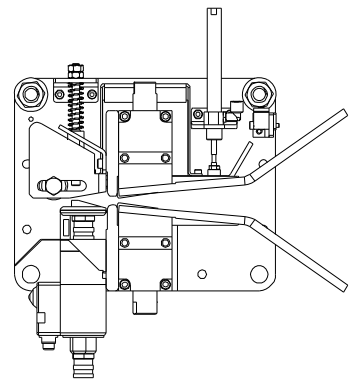
BOARD-RUNNER™ Glue Station Option (582xx538)

To complement the Flexoseal® Gluing System, Valco Cincinnati offers an option designed to improve quality assurance and increase productivity—BOARDRUNNER. The BOARDRUNNER glue station utilizes a floating applicator head to adjust to any standard size board with no need for operator involvement. The all-electric Series 900 valve remains in contact with the board at all times with minimal pressure applied to the product. The BOARDRUNNER station takes advantage of Flexoseal’s “quick disconnect” capability for easy changeover from top-down to bottom-up gluing. For step-by-step changeover instructions, refer to Section 6—Maintenance. BOARDRUNNER uses a laser beam to detect product, so a precise glue pattern is applied even if the board flutters during the gluing process.

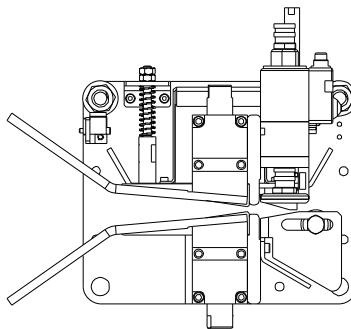
With BOARDRUNNER, the auto track bracket can be adjusted so that scanner depth can be maximized and the scanner can detect the leading edge of a board. Gap thickness is easily controlled by turning a hex nut to reduce or increase spring tension. The spring is positioned to provide constant board pressure and help bring the top cartridge back to the start position. An adjustable air cylinder helps counteract the weight from the top cartridge.



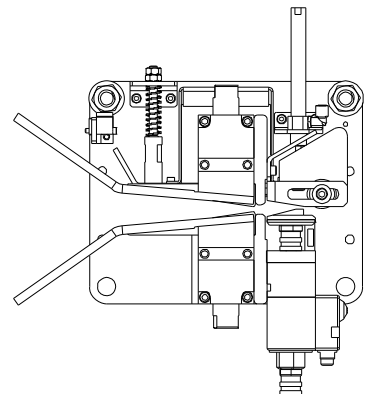
*BOARDRUNNER—
4th Panel Top-down gluing
configuration*



*BOARDRUNNER—
4th Panel Bottom-up gluing
configuration*



*BOARDRUNNER—
Tab Side Top-down gluing
configuration*



*BOARDRUNNER—
Tab Side Bottom-up gluing
configuration*

**4th Panel Side to Tab
Side Conversion**

To convert the BOARDRUNNER from 4th panel setup to tab side setup, do the following:

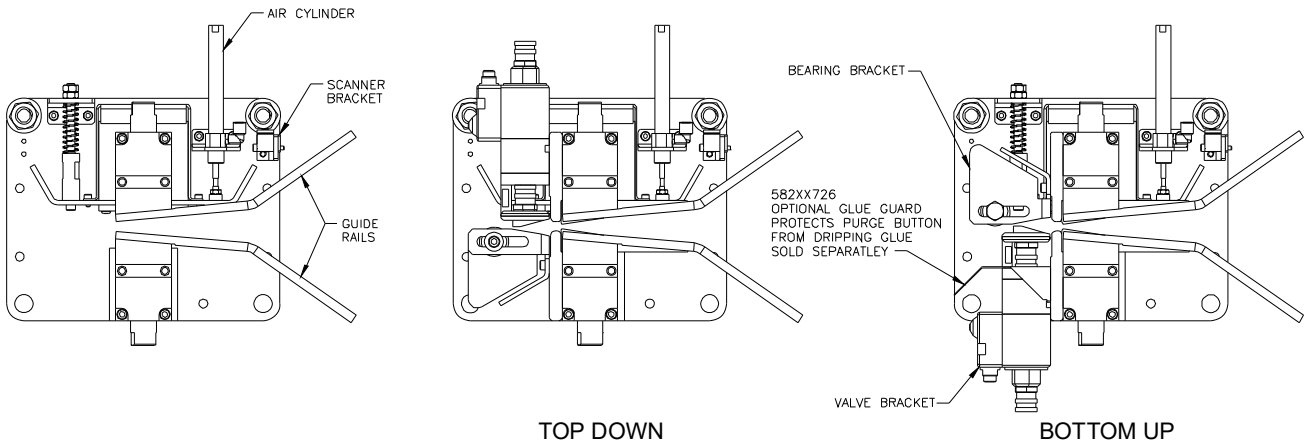
1. Remove the valve bracket assembly by using the push-button quick-release. (No tools required)
2. Remove the bearing bracket assembly using the push-button quick-release. (No tools required)
3. Remove the laser scanner from the scanner bracket. (Two m3 screws)
4. Remove the scanner bracket from the backplate, turn it over, and re-install it on the opposite end of the backplate. (Use the two m4 screws.)
5. Re-install the scanner onto the scanner bracket. Make sure the scanner is facing down.
6. Remove the upper and lower guide rails (two m6 screws each). Reverse them so they are pointing the opposite direction, and re-install.
7. Rotate the valve bracket assembly so it is pointing the opposite direction and re-insert it on the opposite side of the cartridge block.
8. Rotate the bearing bracket assembly so it is pointing the opposite direction and re-insert it on the opposite side of the cartridge block.
9. The BOARDRUNNER station is now ready for tab side installation.



Do not move or change the slide bearing assembly, the air cylinder, or the spring. These items stay in the same position for both the tab-side and the drive side (4th panel) installation.

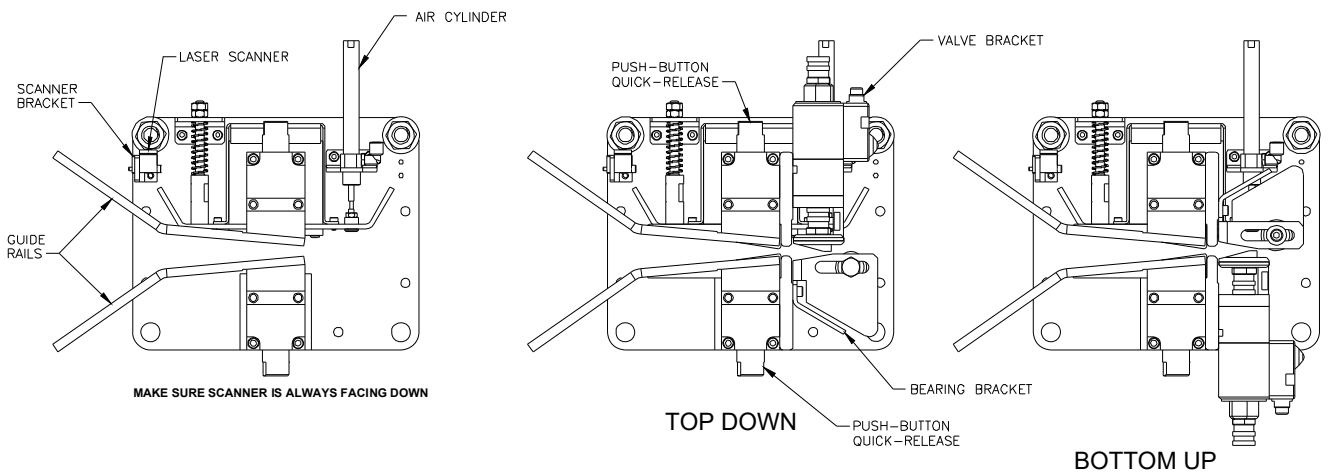
4th Panel Side to Tab Side
Conversion - Continued

**4TH PANEL
STANDARD ASSEMBLY**



MAKE SURE SCANNER IS ALWAYS FACING DOWN

TAB SIDE



MAKE SURE SCANNER IS ALWAYS FACING DOWN

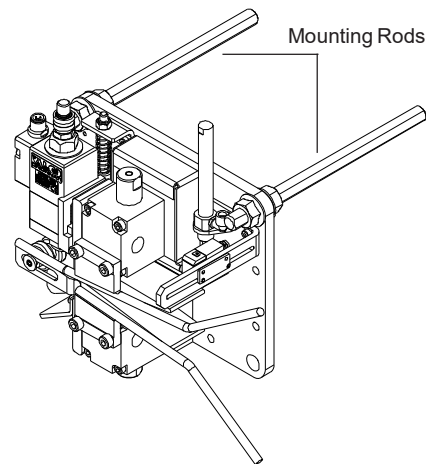
**Initial Setup of Glue
Application System
(BOARDRUNNER - 900
valve)**

When the BOARDRUNNER is shipped, it is ready for a 4th panel (drive side) top-down installation. The scanner is initially mounted to view the product in line with the glue valve. The gap adjustment is set so that a single-walled product (approximately 3 mm thick) can pass through the glue station and remain in contact with the applicator head.

Minimal adjustments, if any, should be made during the setup process.

The Setup Process consists of the following steps:

1. Mount BOARDRUNNER to mounting rods.



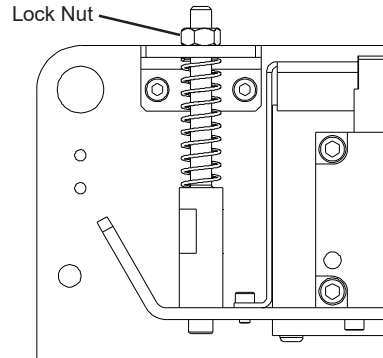
2. Install the applicator head onto the 900 valve.
3. Purge all air from the glue line, then connect to the valve. Purge the valve by activating the push button switch on the valve.
4. Run adhesive through the valve until no air is present in the glue line. (The valve should produce an even glue flow.)
5. Run the parent machine. Stop the machine when a product reaches the glue station.
6. Adjust the glue station vertically to ensure the product is level. The product should not be forced up or down when traveling through the glue station.



The top portion of this bracket moves vertically on a ball slide. This allows the valve (top down) or bearing bar (bottom up) to follow the product regardless of varying thickness or irregularities in the product. If a manufacturer only runs a thicker product, it is advised to modify the 'gap adjust' to the thickness of the board or product.

Initial Setup of Glue Application System (BOARDRUNNER - 900 valve) - Continued

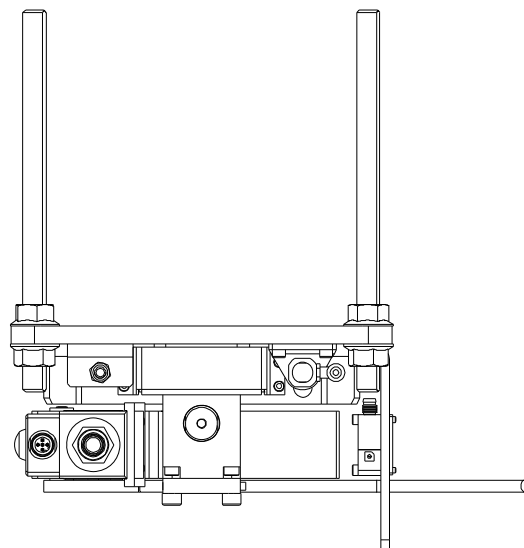
7. To modify the 'gap adjust': use the lock nut (found on the upper left hand side of the BOARDRUNNER) to increase or decrease the gap between the applicator head and bearing bar guide.



8. **Unique to the BOARDRUNNER design**—Air is used to take the weight off the product to prevent pinching or jamming of the board in the glue station. The more air that is added, the more responsive (less weight) the upper cartridge is to the board.
9. If a tab side (operator's side) installation is required, reverse the direction of the inlet guides and mount the scanner bracket, valve bracket and bearing bar guide on the opposite side of the BOARDRUNNER.
10. If the leading edge must be detected, the scanner arm must be flipped* so the scanner depth can be maximized.



* Make sure the scanner is always facing down (red on bottom and sticker on top).



Enlarged to Show Detail

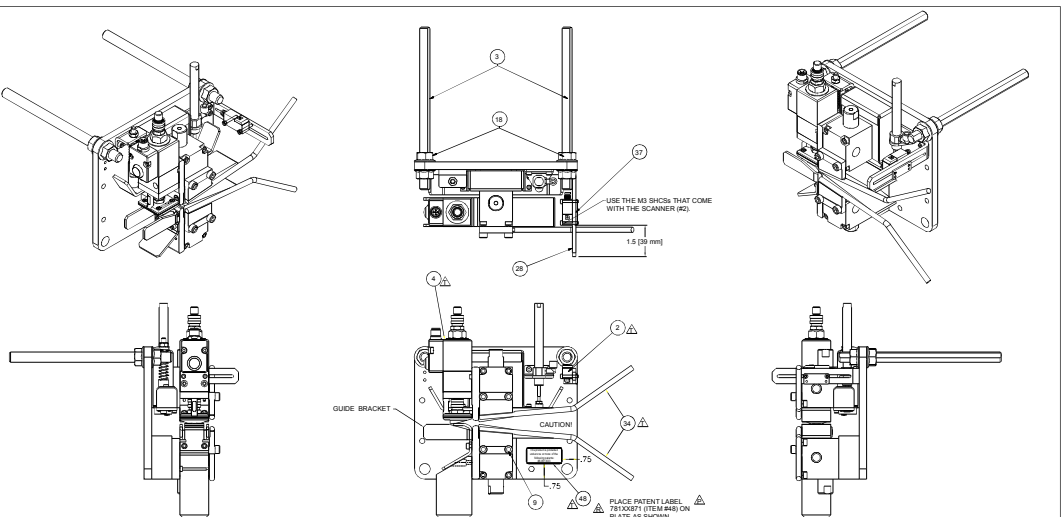


BOARDRUNNER™
900 SERIES VALVE
GLUE STATION

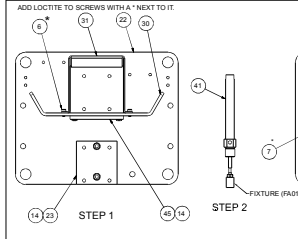


BoardRunner™ Illustration - Contact

ITEM	PARTN	QTY	DESCRIPTION
1	280X290	1	WELDER SCANNER ASSY W/CABLE
2	566X032	2	MOUNTING BAR
4	704X874	1	900 VALVE ASSEMBLY
5	783X0020	2	SPRINGS, 3/2 OD X 1.3 LG.
6	784X049	4	SHCS, M3 X 0.5 X 6mm
7	784X051	13	SHCS, M4 X 0.7 X 12mm
9	784X051	4	SHCS, M4 X 1.0 X 16mm
13	798X051	2	SHCS, M3 X 0.5 X 10mm
14	798X089	4	SHCS, 10-32, 1/2
15	784X062	8	SHCS, 10-32, 1/2
16	798X259	1	HEX NUT M4
17	798X418	1	HEX NUT M4
18	798X099	4	NUT W/2-1/2-13NC 2P
20	582X518	2	CARTRIDGE
21	582X013	2	QUICK RELEASE PLATE
22	582X020	1	MOUNTING PLATE
23	582X021	1	SPACER BLOCK, BOTTOM
25	582X023	2	SPRING CLAMP
26	582X524	2	WEDGE
27	582X525	2	QUICK RELEASE POST
28	582X579	1	SCANNER BRACKET
29	582X527	1	LOCK, GAP ADJUST
30	582X028	1	MOUNTING & GUARD PLATE
31	582X029	1	GLUE GUARD, BALL SLIDE
33	582X531	1	ROD, M3, GAP ADJUST
34	582X700	2	BAR, EXTENSION
35	999X0282-D7	1	ILL. DWG. BOARDRUNNER
36	582X524	1	ADAPTER, AIR CYL
37	582X068	1	NUT, EXP. SCANNER
38	582X567	2	QUICK RELEASE FOOT
39	091X254	1	SPRING, 22 OD X 1.5 LG
40	582X517	1	MOUNTING BRACKET, AIR CYL
41	781X749	1	AIR CYL, 10mm ID X 16mm STROKE
42	797X448	1	EXPANDER, 6mm-8mm
43	799X330	1	EXPANDER, 6mm-1/2
44	799X560	1	ELBOW, M3-6mm
45	582X028	1	CROSS ROLLER SLIDE
46	999X582-17	1	ILLUSTRATION DRAWING
48	781X871	1	PATENT LABEL
49	582X041	1	BRACKET - PRODUCT GUIDE
50	583X260	1	WEIGHT BLOCK, COUNTERBALANCE
51	784X067	2	SHCS, M4 X 16 S.S.

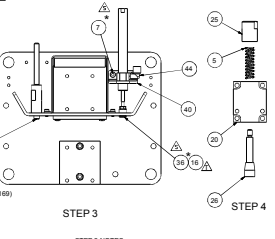


NOTES FOR SHIPPING
 BAG MOUNTING BARS (#2 AND #3)
 BAG BOTH EXPANDER FITTINGS (#42 & 43)
 BAG TOTAL ASSEMBLY WITH ALL EXTRA PARTS AND ILL. DWG. (#35, #46 & #47)



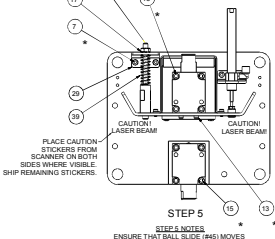
STEP 1
ON CROSS ROLLER SLIDE (#46), REMOVE BOTTOM HEAD CAP SCREWS, APPLY BLUE LOCITE TO THREADS AND REINSTALL (IF PLACES)

STEP 2
APPLY LUBRICANT (#36) TO PISTON FOR ADDITIONAL LIFE OF AIR CYLINDER (#41). THREADER NUT (#16) TO TOP OF AIR CYL. THEN USE FIXTURE TO BOTTOM HOW FAR TO THREAD NUT DOWN. THEN REMOVE FIXTURE AND THREAD ADAPTER (#40) UP TO THE NUT. FINALLY, TIGHTEN THE NUT TO PREVENT ADAPTER FROM VIBRATING LOOSE.



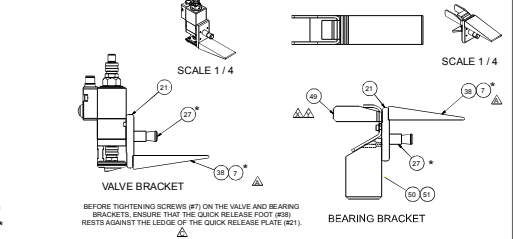
STEP 3
FIXTURE (#40) TO IT

STEP 4
FIXTURE (#40) TO IT



STEP 5
ENSURE THAT BALL SLIDE (#46) MOVES FREELY WITH NO BINDING IN AIR CYLINDER. DURING ASSEMBLY, TIGHTEN BOTTOM HEX NUT (BOTH) TO THE SPRING (BUT NOT JUST STARTING TO COMPRESS, THEN TIGHTEN TOP HEX NUT TO LOCK INTO PLACE.

STEP 6
PLACE CAUTION STICKERS FROM SCANNER ON BOTH SIDES WHERE VISIBLE. SHIP REMAINING STICKERS.



VALVE BRACKET
BEFORE TIGHTENING SCREWS (#7) ON THE VALVE AND BEARING BRACKETS, ENSURE THAT THE QUICK RELEASE FOOT (#8) RESTS AGAINST THE LEDGE OF THE QUICK RELEASE PLATE (#21).

BEARING BRACKET

SCALE 1/4

SCALE 1/4

ITEM	DESCRIPTION	QTY	UNIT	REVISION	DATE	BY	CHKD	APP'D
1	WELDER SCANNER ASSY W/CABLE	1	EA	1	11/27/02			
2	MOUNTING BAR	2	EA	1	11/27/02			
4	900 VALVE ASSEMBLY	1	EA	1	11/27/02			
5	SPRINGS, 3/2 OD X 1.3 LG.	2	EA	1	11/27/02			
6	SHCS, M3 X 0.5 X 6mm	4	EA	1	11/27/02			
7	SHCS, M4 X 0.7 X 12mm	13	EA	1	11/27/02			
9	SHCS, M4 X 1.0 X 16mm	4	EA	1	11/27/02			
13	SHCS, M3 X 0.5 X 10mm	2	EA	1	11/27/02			
14	SHCS, 10-32, 1/2	4	EA	1	11/27/02			
15	SHCS, 10-32, 1/2	8	EA	1	11/27/02			
16	HEX NUT M4	1	EA	1	11/27/02			
17	HEX NUT M4	1	EA	1	11/27/02			
18	NUT W/2-1/2-13NC 2P	4	EA	1	11/27/02			
20	CARTRIDGE	2	EA	1	11/27/02			
21	QUICK RELEASE PLATE	2	EA	1	11/27/02			
22	MOUNTING PLATE	1	EA	1	11/27/02			
23	SPACER BLOCK, BOTTOM	1	EA	1	11/27/02			
25	SPRING CLAMP	2	EA	1	11/27/02			
26	WEDGE	2	EA	1	11/27/02			
27	QUICK RELEASE POST	2	EA	1	11/27/02			
28	SCANNER BRACKET	1	EA	1	11/27/02			
29	LOCK, GAP ADJUST	1	EA	1	11/27/02			
30	MOUNTING & GUARD PLATE	1	EA	1	11/27/02			
31	GLUE GUARD, BALL SLIDE	1	EA	1	11/27/02			
33	ROD, M3, GAP ADJUST	1	EA	1	11/27/02			
34	BAR, EXTENSION	2	EA	1	11/27/02			
35	ILL. DWG. BOARDRUNNER	1	EA	1	11/27/02			
36	ADAPTER, AIR CYL	1	EA	1	11/27/02			
37	NUT, EXP. SCANNER	1	EA	1	11/27/02			
38	QUICK RELEASE FOOT	2	EA	1	11/27/02			
39	SPRING, 22 OD X 1.5 LG	1	EA	1	11/27/02			
40	MOUNTING BRACKET, AIR CYL	1	EA	1	11/27/02			
41	AIR CYL, 10mm ID X 16mm STROKE	1	EA	1	11/27/02			
42	EXPANDER, 6mm-8mm	1	EA	1	11/27/02			
43	EXPANDER, 6mm-1/2	1	EA	1	11/27/02			
44	ELBOW, M3-6mm	1	EA	1	11/27/02			
45	CROSS ROLLER SLIDE	1	EA	1	11/27/02			
46	ILLUSTRATION DRAWING	1	EA	1	11/27/02			
48	PATENT LABEL	1	EA	1	11/27/02			
49	BRACKET - PRODUCT GUIDE	1	EA	1	11/27/02			
50	WEIGHT BLOCK, COUNTERBALANCE	1	EA	1	11/27/02			
51	SHCS, M4 X 16 S.S.	2	EA	1	11/27/02			

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TECHNICAL BULLETIN



The CGS-30 gate sensor has been replaced by the new CGS-40. The CGS-40 has an injection-molded Valox polymer enclosure with a smooth surface for minimal buildup and easy cleaning. It features the Turck connector and uses the same connector cables as the CGS-30. One assembly is used for either the tab-side or the fourth-panel. Additional features of the CGS-40 include:

- *Smaller size than the CGS-30*
- *Indicator LED's for supply voltage and signal output*
- *Waterproof*
- *Connector for optional dedicated scanner*

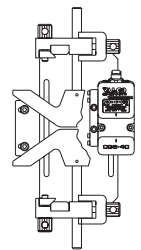
The illustration below shows the CGS-40 with dedicated scanner with scanner mounting kit (high-speed PNP laser scanner reference Bulletin no.53). The dedicated laser scanner enhances system reliability and accuracy. It is recommended as standard for new system orders.



280xx241	CGS-40 gate sensor with dedicated laser scanner and scanner mounting kit (see below).	
280xx240	Laser scanner assembly with bracket kit, includes:	
280xx233	laser scanner	
029xx057	scanner adapter cable	
582xx456	scanner clamp	
582xx443	scanner bracket	
798xx051	SHCS, M3 x 10 (2)	
789xx099	SHCS, M3 x 16 (2)	

Note: If the 280xx241 gate sensor/scanner assembly above is being mounted to the 581xx898 (CGS-30) mounting bracket, a bracket adapter (579xx166 - below) must also be included.

A bracket adapter (shown with the sensor top left) is used to mount the CGS-40 to the 581xx898 mounting bracket for the CGS-30. The following assembly part number is a direct replacement for the 280xx207 (CGS-30, fourth-panel) and 280xx208 (CGS-30, tab-side).



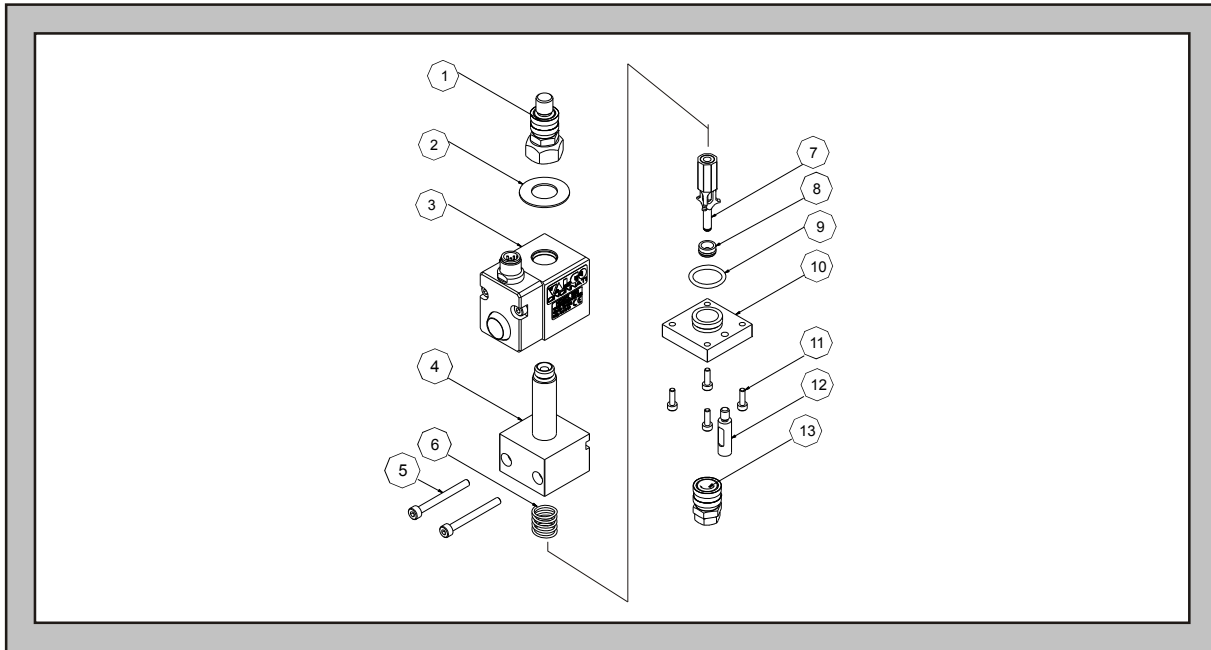
280xx242	CGS-40 with bracket adapter, includes:	
280xx910	CGS-40 gate sensor	
579xx166	Bracket adapter	





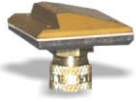
**900 SERIES
ALL-ELECTRIC GLUE VALVE**

900 Series Valve Components - Contact



900 Valve Components - Contact			
ITEM	STD VITON	EP SEALS	DESCRIPTION
1	752xx036	752xx045	Disconnect adapter assembly with male stopper (750xx013)
2	783xx043		Spring washer
3	704xx872		Solenoid assembly, 900 includes flux washer 704xx879
4	704xx873	707xx610	Valve body assembly, 900 valve, includes item 4a O-ring
4a	745xx184	746xx169	O-ring
5	784xx136		SHCS. M4 x 40mm
6	783xx042		Spring, 900
7	707xx580		Plunger assembly, 900, 4mm ball
8	707xx462		Seat insert assembly, 900 includes O-ring 746xx069
9	745xx007	746xx170	O-ring
10	704xx878		Seat adapter, 900
11	784xx112		SHCS, M3 x 8mm
12	704xx880		Stand-off, 900

900 Valve Plunger Upgrade Kit	
PN	DESCRIPTION
707xx581	900 valve plunger upgrade kit. Upgrades old 6mm plunger to new 4mm plunger, includes plunger, seat and spring - see Bulletin no, 100 for additional information




BOARDRUNNERTM
APPLICATOR HEADS

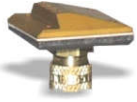
Applicator Head Options for BoardRunner® Glue Station - 900 Series Valves



NOTE: An additional pattern shim is recommended for use with the BoardRunner applicator heads to improve performance with high-viscosity adhesives and high-speed applications.



1/4" Center Pattern Style

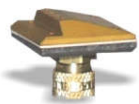
Applicator Head Options for standard BoardRunner® Glue Station - 1/4" Centers			
	PN Viton Seals	PN EP Seals	DESCRIPTION
 	661xx001	660xx001	Applicator head, single vein 0.040, includes 1 pattern shim
	661xx002	660xx002	Applicator head, 1/4 in. (6.4 mm) pattern width, two 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx102	660xx102	Same as above with 1.5 mm veins
	661xx003	660xx003	Applicator head, 1/2 in. (13 mm) pattern width, three 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx103	660xx103	Same as above with 1.5 mm veins
	661xx004	660xx004	Applicator head, 3/4 in. (19 mm) pattern width, four 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx104	660xx104	Same as above with 1.5 mm veins
	661xx005	660xx005	Applicator head, 1 in. (25 mm) pattern width, five 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx105	660xx105	Same as above with 1.5 mm veins
	661xx006	660xx006	Applicator head, 1 1/4 in. (32 mm) pattern width, six 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx106	660xx106	Same as above with 1.5 mm veins
	661xx007	660xx007	Applicator head, 1 1/2 in. (38 mm) pattern width, seven 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx107	660xx107	Same as above with 1.5 mm veins
	661xx008	660xx008	Applicator head, 1 3/4 in. (45 mm) pattern width, eight 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx108	660xx108	Same as above with 1.5 mm veins



BOARDRUNNERTM
APPLICATOR HEADS


BoardRunner Applicator Head Options - 1/8" Centers

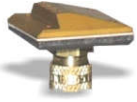
Applicator Head Options for BoardRunner® Glue Station - 1/8" Centers			
	PN Viton Seals	PN EP Seals	DESCRIPTION
	661xx804	660xx804	Applicator head, 4 vein, 1 mm orifice, 1/8 inch centers, 3/8 inch pattern width
	661xx805	660xx805	Applicator head, 5 vein, 1 mm orifice, 1/8 inch centers, 1/2 inch pattern width
	661xx806	660xx806	Applicator head, 6 vein, 1 mm orifice, 1/8 inch centers, 5/8 inch pattern width
	661xx807	660xx807	Applicator head, 7 vein, 1 mm orifice, 1/8 inch centers, 3/4 inch pattern width
	661xx808	660xx808	Applicator head, 8 vein, 1 mm orifice, 1/8 inch centers, 7/8 inch pattern width
	661xx810	660xx810	Applicator head, 10 vein, 1 mm orifice, 1/8 inch centers, 1-18 inch pattern width
	661xx705	660xx705	Applicator head, 5 vein, 1.5 mm orifice, 1/8 inch centers, 1/2 inch pattern width
	661xx706	660xx706	Applicator head, 6 vein, 1.5 mm orifice, 1/8 inch centers, 5/8 inch pattern width
	661xx707	660xx707	Applicator head, 7 vein, 1.5 mm orifice, 1/8 inch centers, 3/4 inch pattern width
	661xx708	660xx708	Applicator head, 8 vein, 1.5 mm orifice, 1/8 inch centers, 7/8 inch pattern width
			



BOARDRUNNERTM
APPLICATOR HEADS

Applicator Head options for Jumbo BoardRunner®

Applicator Head Options for Jumbo BoardRunner® Glue Stations			
	PN Viton Seals	PN EP Seals	DESCRIPTION
		661xx006	660xx006
	661xx106	660xx106	Same as above with 1.5 mm veins
	661xx007	660xx007	Applicator head, 1 1/2 in. (38 mm) pattern width, seven 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx107	660xx107	Same as above with 1.5 mm veins
	661xx008	660xx008	Applicator head, 1 3/4 in. (45 mm) pattern width, eight 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx108	660xx108	Same as above with 1.5 mm veins
	661xx009	660xx009	Applicator head, 2 in. (51 mm) pattern width, nine 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx109	660xx109	Same as above with 1.5 mm veins
	661xx010	660xx010	Applicator head, 2 1/4 in. (57 mm) pattern width, ten 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx110	660xx110	Same as above with 1.5 mm veins
	661xx011	660xx011	Applicator head, 2 1/2 in. (64 mm) pattern width, eleven 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx111	660xx111	Same as above with 1.5 mm veins
	661xx012	660xx012	Applicator head, 2 3/4 in. (70 mm) pattern width, twelve 0.040 veins on 1/4 in. (6.35 mm) centers, includes 1 pattern shim
	661xx112	660xx112	Same as above with 1.5 mm veins



BOARDRUNNERTM
APPLICATOR HEADS

Dual Valve BoardRunner Applicator Heads

Dual Valve BoardRunner® Applicator Heads			
	PN Viton Seals	PN EP Seals	DESCRIPTION
	661xx213	660xx213	3 inch pattern width, 13 veins 1/4 in. (6.35 mm) centers
	661xx215	660xx215	3.5 inch pattern width, 15 veins 1/4 in. (6.35 mm) centers
	661xx217	660xx217	4 inch pattern width, 17 veins 1/4 in. (6.35 mm) centers
	661xx219	660xx219	4.5 inch pattern width, 19 veins 1/4 in. (6.35 mm) centers
	661xx221	660xx221	5 inch pattern width, 21 veins 1/4 in. (6.35 mm) centers
	661xx223	660xx223	5.5 inch pattern width, 23 veins 1/4 in. (6.35 mm) centers
	661xx225	660xx225	6 inch pattern width, 25 veins 1/4 in. (6.35 mm) centers

BoardRunner Applicator Head, Pattern Shims

An additional pattern shim is recommended for use with the BoardRunner applicator heads to improve performance with high-viscosity adhesives and high-speed applications.

Pattern Shim Options for BoardRunner® Glue Station	
PN	DESCRIPTION
708xx722	Pattern shim, 1/4 inch pattern width
708xx723	Pattern shim, 1/2 inch pattern width
708xx724	Pattern shim, 3/4 inch pattern width
708xx725	Pattern shim, 1 inch pattern width
708xx726	Pattern shim, 1-1/4 inch pattern width
708xx727	Pattern shim, 1-1/2 inch pattern width
708xx728	Pattern shim, 1-3/4 inch pattern width
708xx729	Pattern shim, 2 inch pattern width
708xx730	Pattern shim, 2-1/4 inch pattern width
708xx731	Pattern shim, 2- 1/2 inch pattern width
708xx732	Pattern shim, 2- 3/4 inch pattern width