

BAABS G3 Swivel Strap Assembly

March 2025



SCHMIDT

SAVE THIS MANUAL AND MAKE AVAILABLE
TO ALL USERS OF THIS EQUIPMENT!

Manual Part Number 7200-372 Rev 03-25
(Available for downloading from AxxiomMfg.com)



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Manufacturing
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BAABS G3
Swivel Strap
Assembly
Manual

WARNING

1. Any person intending to operate this equipment or any person intending to be in the vicinity during its operation must receive proper training from his/her supervisor, employer and/or supplier. If this equipment is to be leased or rented, the supplier must assure that the lessee or renter has received proper training before the lessee or renter takes possession of the equipment. Consult Axxiom Manufacturing, Inc.
2. Any person authorized to operate this equipment or any person intending to be in the vicinity during its operation and who is not capable of reading and understanding this manual must be fully trained regarding the *Rules for Safer Operation* and all operating procedures, and must be made aware of all the Dangers, Warnings, and Cautions identified herein. Consult Axxiom Manufacturing, Inc.
3. Do Not operate any abrasive blaster or blast equipment before reading and completely understanding all the warnings, operating procedures and instructions, and the *Rules for Safer Operation* contained in this manual.
4. Do Not operate any abrasive blaster or blast equipment without following the *Rules for Safer Operation* and all the operating procedures and instructions. Failure to properly use blast equipment could result in severe injury or death.
5. Do Not perform any maintenance on any abrasive blaster or blast equipment while it is pressurized. Always depressurize the abrasive blaster vessel before loading abrasive or performing any maintenance.
6. Do Not use abrasives containing free silica. Silica can cause silicosis or other related respiratory damage. All operators must wear personal protective equipment for all abrasive blasting operations. Observe all applicable local, state, and federal safety regulations in conjunction with airline filters and respiratory protection. Reference OSHA 29 CFR 1910.134.
7. Do Not enter areas during abrasive blasting operations without breathing protection. All personnel in the vicinity of abrasive blasting operations should wear NIOSH approved air fed respirators, hoods or helmets.
8. Do Not modify or alter any abrasive blaster, blast equipment or controls thereof without written consent from Axxiom Manufacturing, Inc.
9. Do Not use bleeder type deadman valves on any Schmidt® abrasive blaster. The use of A-BEC, Clemco or a similar bleeder type deadman valve can cause unintentional start-up without warning, which can result in serious personal injury.
10. Do Not sell, rent, or operate abrasive blasters without remote controls. OSHA regulations require remote controls on all blast machines. Failure to use remote controls can cause serious injury or death to the operator(s) or other personnel in the blasting area. Reference OSHA 29 CFR 1910.244(b).
11. Do Not repair or replace any portion of Schmidt® equipment using components that are not Schmidt® original factory replacement parts. Use of replacement components that are not Schmidt® original factory replacement parts may result in equipment failure which can result in serious personal injury and in addition will void all warranties.

0.0 INSTRUCTIONS FOR USE OF MANUAL SECTIONS

This manual contains information needed to operate and maintain a BAABS G3 Swivel Strap Assembly. Read this entire operations and maintenance manual before using the BAABS G3 Swivel Strap Assembly. Pay close attention to the *Rules for Safer Operation* (Section 1.0), and the Dangers, Warnings, and Cautions identified.

The purpose of safety symbols and explanations are to alert operators of the possible hazards and explain how to avoid them. The safety symbols and explanations alone do not eliminate any danger. However, following the instructions given and taking proper accident prevention measures will greatly lower the risk of injury to personnel. Below are the three hazard levels as used in this manual.

DANGER

WHITE LETTERS with RED BACKGROUND

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

WARNING

BLACK LETTERS with ORANGE BACKGROUND

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION

BLACK LETTERS with YELLOW BACKGROUND

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices that may cause property damage.

NOTICE

WHITE LETTERS with BLUE BACKGROUND

NOTICE: Indicates that equipment could malfunction or potentially become damaged if certain instructions are not followed.

This manual contains terms that may be specific to the abrasive blast industry. Understanding these terms will help operators understand the procedures and instructions given in this manual. All operators must be familiar with the following terms and refer to them as needed while reading this manual.

Term	Definition
Pressure Vessel	A fabricated tank (or reservoir) that is part of the abrasive blaster which is filled with compressed air and abrasive. (Also referred to as “blast vessel” or “vessel.”)
Pressurize	To manually or automatically fill the abrasive blast vessel with compressed air.
Depressurize	To manually or automatically release all the compressed air from inside the abrasive blast vessel. (Also referred to as “blowdown.”)
Depressurized System	An abrasive blaster that is pressurized only when the deadman activates the blast operation. The blaster automatically depressurizes when the deadman is released.
Pressurized System	An abrasive blaster that is automatically pressurized when the air inlet ball valve is opened. The blaster remains pressurized when the deadman is released.
Blowdown	To manually or automatically release all the compressed air from inside the abrasive blast vessel. (Also referred to as “depressurize.”)
Deadman	A manually operated valve or switch that allows remote starting and stopping of the blast operation. [Also referred to as “deadman valve” (pneumatic blast controls) or “deadman switch” (electric blast controls.)]
Popup	An air pressure operated valve that seals the abrasive inlet at the top of the pressure vessel. Its operation may be manual or automatic.
Abrasive	A granular substance used in an air blast operation that is the means for blasting the surface of an object. (Also referred to as abrasive blasting media.)
Silica	The crystalline chemical compound silicon dioxide (SiO ₂) can be found in many natural abrasives and other substances. Breathing silica dust can cause respiratory diseases such as silicosis. (Also referred to as crystalline silica)

1.0 Rules For Safer Operation

1.1. GENERAL RULE FOR SAFER OPERATION.

SCHMIDT® ABRASIVE BLASTERS AND ACCESSORIES HAVE BEEN DESIGNED TO BE SAFER WHEN USED IN THE PROPER MANNER. ALL ABRASIVE BLASTERS AND ACCESSORIES ARE POTENTIALLY DANGEROUS IF ALL SAFETY PRECAUTIONS ARE NOT RIGOROUSLY FOLLOWED. PROPER TRAINING IS REQUIRED BEFORE OPERATION. PROPER PROCEDURES MUST BE FOLLOWED. THE ABRASIVE BLASTER, ACCESSORIES, AND ALL COMPONENTS MUST BE PROPERLY MAINTAINED. FAILURE TO OPERATE, SERVICE AND MAINTAIN THE BLAST ACCESSORY AS SET FORTH IN THIS MANUAL MAY CAUSE INJURY OR EVEN DEATH TO ANY PERSON USING, SERVICING OR IN THE VICINITY OF THE ABRASIVE BLAST OPERATION.

THIS MANUAL IDENTIFIES POTENTIAL HAZARDS BY DANGER, WARNING, AND CAUTION SYMBOLS. HOWEVER, ALL THE RULES, PROCEDURES AND RECOMMENDATIONS MUST BE FOLLOWED. FAILURE TO OPERATE PROPERLY IS VERY LIKELY TO PLACE PERSONS AND PROPERTY AT HIGH RISK OF DAMAGE, INJURY OR EVEN DEATH.

DANGER

ABRASIVE BLASTERS, SAFETY ACCESSORY AND THE ABRASIVE BLAST OPERATION ARE POTENTIALLY DANGEROUS IF ALL SAFETY PRECAUTIONS ARE NOT FOLLOWED. FAILURE TO OPERATE THE ABRASIVE BLASTER WITHOUT FOLLOWING ALL THE *RULES FOR SAFER OPERATION* MAY RESULT IN SERIOUS INJURY OR DEATH TO OPERATING PERSONNEL OR PERSONS IN THE OPERATING VICINITY.

- 1.2 KNOW YOUR EQUIPMENT.** Do Not operate this equipment in a manner other than its intended application. Do Not operate this equipment or any other Schmidt® equipment without following the *Rules for Safer Operation* and all the operating procedures and instructions. Learn the applications and limitations as well as the specific potential hazards related to this machine. Failure to do so could result in serious injury or death.

NOTE: The BAABS G3 Swivel Strap Assembly is designed as an attachment to a blast hose assembly used on an abrasive blast system. Operators must follow the recommended operating procedures detailed in the operating and maintenance manual provided with the abrasive blaster.

DANGER

Failure to follow the procedures detailed in the *G3 Swivel Strap Assembly Operation and Maintenance Manual* could result in severe injury or death. In addition to these procedures provided in this manual, operators must consult the manual provided with abrasive blaster that will be used with the BAABS G3 Swivel Strap Assembly.

- 1.3 RECEIVE PROPER TRAINING.** Do Not operate this equipment unless you have received operational and maintenance training. Begin by thoroughly reading and understanding this operation and maintenance manual and all included information. Consult an authorized Schmidt distributor or Axxiom Manufacturing, Inc.

- 1.4 USE PROPER PERSONAL PROTECTIVE EQUIPMENT.** Do Not operate or perform maintenance on this equipment without wearing OSHA approved eye, ear, foot, and lung protection. Reference OSHA 29 CFR 1910 and refer to the operating and maintenance manual of the blast equipment to be used. **CRITICAL:** Refer to blaster operation and maintenance manual.

WARNING

Failure to use personal protective equipment could result in severe injury or death. Refer to the operating and maintenance manual of the blast equipment to be used.

- 1.5 ADHERE TO ALL REGULATIONS.** Do Not operate this equipment without observing all local, state, and federal safety regulations including, but not limited to, OSHA (Occupational Health and Safety Administration).

- 1.6. ELECTRICALLY GROUND EQUIPMENT.**

Static electricity is generated by the abrasive flow through the blast hose. To minimize chance of static electrical shock to operating personnel only use anti-static blast hose and/or vacuum hose, properly electrically bond the blast nozzle, blast hose couplings, and the equipment, and properly install an earth ground to the abrasive blaster. Refer to the operating and maintenance manual of the blast equipment to be used.

- 1.7 **ALWAYS USE CORRECT REPLACEMENT PARTS AND ACCESSORIES.** Do Not use replacement parts that are not Schmidt® original factory replacement parts. Non-original parts may not fit properly and can cause equipment damage and/or failure which can result in severe injury to operating personnel. Consult Axxiom Manufacturing, Inc.

WARNING

Use of replacement components that are not Schmidt® original factory replacement parts may result in equipment failure which can result in severe injury to operating personnel.

- 1.8 **SAVE THIS OPERATION AND MAINTENANCE MANUAL.** Refer to this operation and maintenance manual as needed as well as any additional information included from other manufacturers. Never permit anyone to operate this equipment without having him/her first read this manual and receive proper training. Make this manual readily available to all operating and maintenance personnel. If the manual becomes lost or illegible replace it immediately. Periodically re-read this operation and maintenance manual to maintain the highest skill level; it may reduce the chance of a serious accident.
- 1.9 **REFERENCE BLASTER OPERATION AND MAINTENANCE MANUAL.** The BAABS G3 Swivel Strap Assembly is designed as an attachment to a blast hose assembly used on an abrasive blast system. Operators must follow the recommended operating procedures detailed in the operating and maintenance manual provided with the abrasive blaster. Refer to the abrasive blaster operation and maintenance manual for additional safety information.

DANGER

Failure to follow the procedures detailed in the *Abrasive Blaster Operation and Maintenance Manual* could result in severe injury or death. In addition to these procedures provided in this manual, operators must consult the manual provided with abrasive blaster that will be used with the BAABS G3 Swivel Strap Assembly.

2.0 Specifications and General Information

- 2.1 The BAABS G3 Swivel Strap Assembly mounts the G3 Trigger Deadman directly to the blast hose. It allows the G3 Trigger Deadman to easily swivel around the blast hose to maintain a comfortable hand position.
- 2.2 The G3 Trigger Deadman is designed to be used in an abrasive blast control system as a device that allows remote control of the on-off function of the blast operation. Consult an authorized Axxiom Distributor for system compatibility verification.
- 2.3 The G3 Trigger Deadman comes in two different power configurations— pneumatic or electric. The *pneumatic* G3 Trigger Deadman requires a clean air supply at a minimum of 78 psig for proper operation of blast system components. The *electric* G3 Trigger Deadman operates on either 12V or 24VDC depending on the supply voltage for the electric blast controls.
- 2.4 **BAABS G3 Swivel Strap Assembly Specifications**
- | | |
|---|-------------------|
| BAABS Strap maximum tensile strength | 250 lbs. (113 kg) |
| BAABS Strap initial mechanical slip of buckle locking mechanism | 170 lbs. (77 kg) |

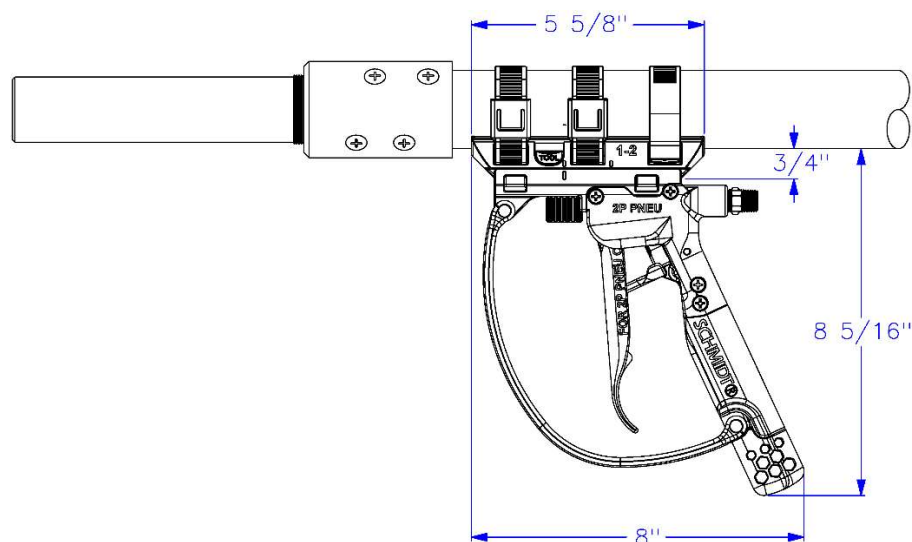


Figure 2.1 – BAABS G3 Swivel Strap Assembly Dimensions
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3.0 Installation and Removal of BAABS G3 Swivel Strap Assembly

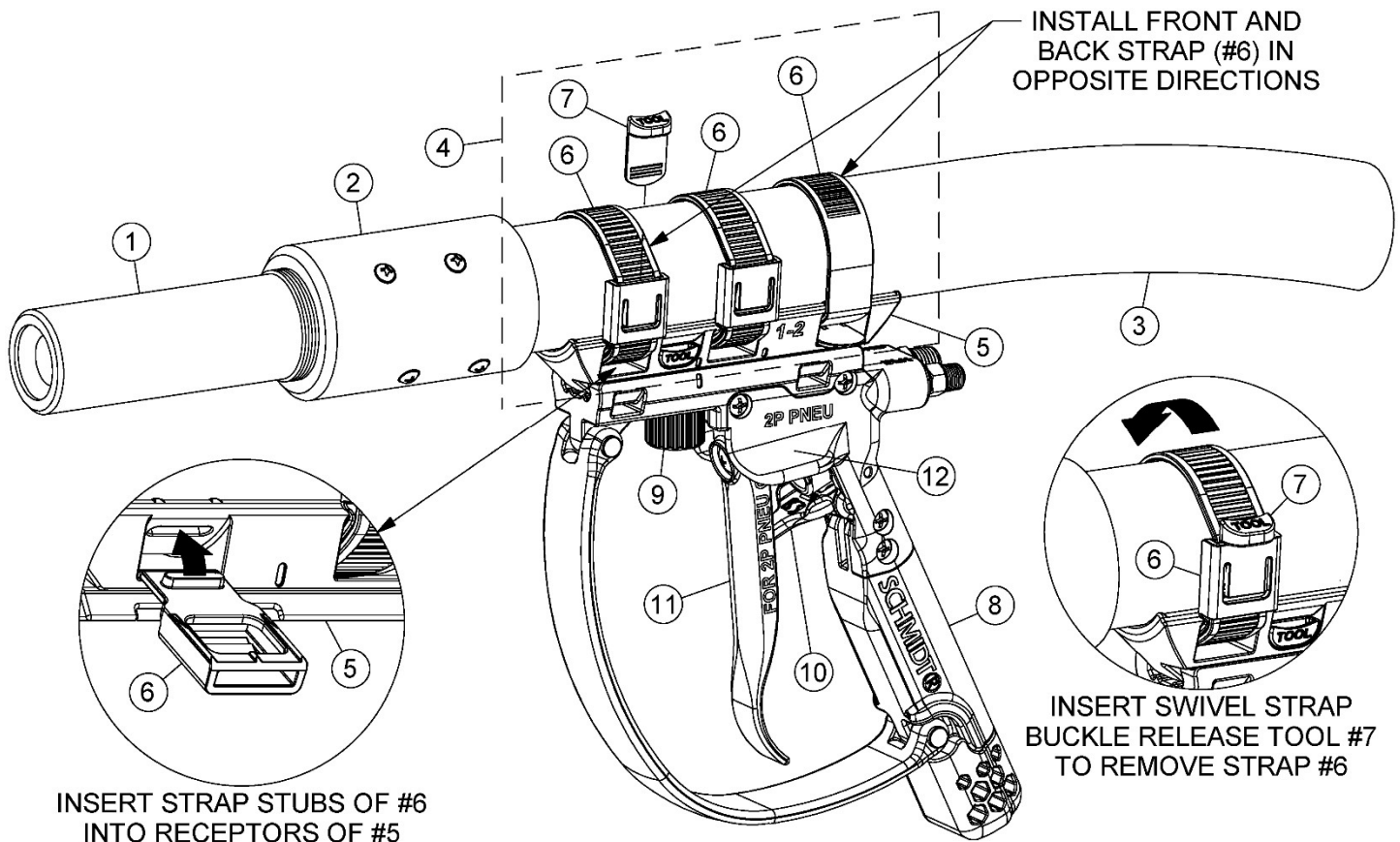


Figure 3.1 – BAABS G3 Swivel Strap Assembly Installed on Blast Hose



G3 Swivel Strap Assembly Installation



G3 Swivel Strap Removal Without Tool



Do Not alter or make modifications to the BAABS G3 Swivel Strap Assembly. Making alterations or modifications can cause equipment malfunction which can lead to severe injury or death.

(See Figure 3.1 for part number identification)

- 3.1 Selecting proper BAABS G3 Swivel Strap Adapter size.
 - 3.1.1 Select the correct G3 Swivel Strap Adapter (#5) based on hose size and wall thickness using the chart in Figure 3.2. The G3 Swivel Strap Adapters are marked 1-2 or 3-4 on the side of the adapter. See 1-2 marked on the drawing in Figure 3.3. Most manufacturers cast their part numbers on the side of the nozzle holder (#2). The letters of the part number vary between manufacturers and nozzle holder material, but the last number usually indicates the blast hose size. Match the last number of the nozzle holder part number with the number on the G3 Swivel Strap Adapter (#5) (See Figure 3.3).

HOSE SIZE (ID)	HOSE OD	G3 SWIVEL STRAP ADAPTER SIZE
1/2" (13mm)	1-3/16" (30mm)	1-2
3/4" (19mm)	1-1/2" (38mm)	
1" Thinwall (25mm)	1-1/2" (38mm)	
1" (25mm)	1-7/8" (48mm)	
1-1/4" Thinwall (32mm)	1-7/8" (48mm)	
1-1/4" (32mm)	2-5/32" (55mm)	3-4
1-1/2" (38mm)	2-3/8" (60mm)	

Figure 3.2 - Chart to Determine Correct BAABS G3 Swivel Strap Adapter Size

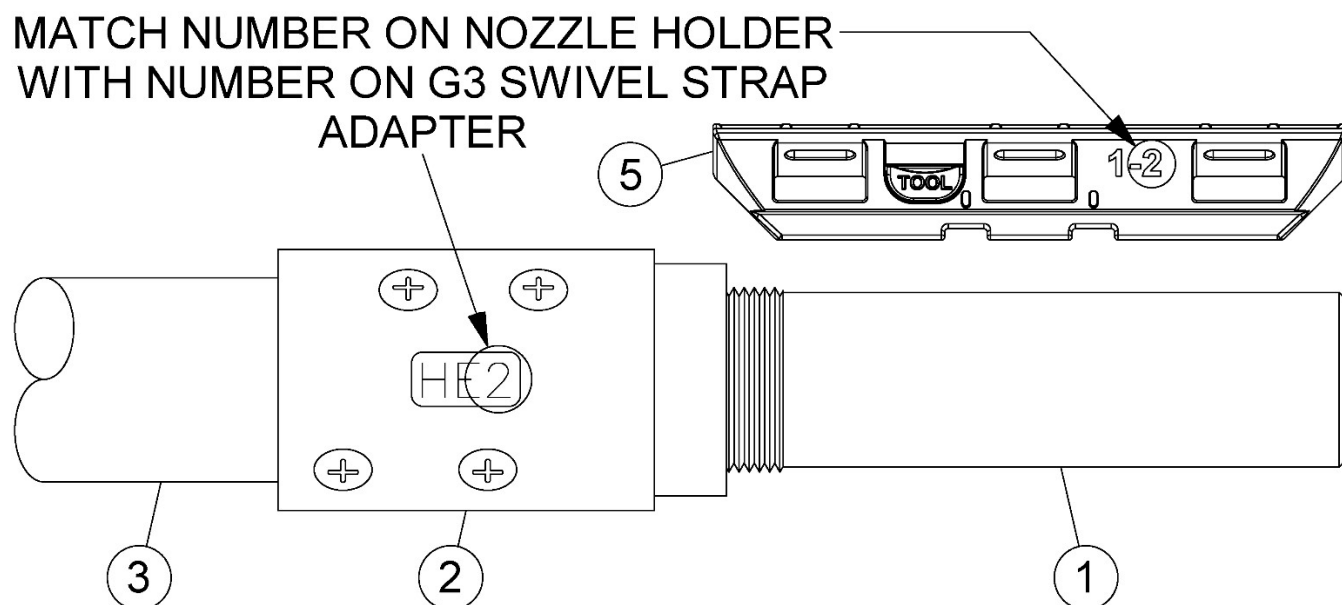


Figure 3.3 – Matching BAABS G3 Swivel Strap Adapter with Nozzle Holder Size

- 3.2 Install BAABS G3 Swivel Strap Adapter Assembly (#4) onto blast hose (#3)
- 3.2.1 Insert first strap (#6) into G3 Swivel Strap Adapter (#5) slot. Make sure that the two stubs on each strap are inserted and locked into the stub receptors located near each slot of the G3 Swivel Strap Adapter (See Figure 3.1).
- 3.2.2 While continuing to hold the strap (#6) locked into the stub receptors, wrap the straps around the blast hose (#3) and insert the end into the strap buckle and tighten the strap by pulling on the tag end of the strap.
- 3.2.3 Repeat the above two steps for the other two straps. ATTENTION: the third strap must be installed in the opposite direction of the first strap to ensure proper functionality of the G3 Swivel Strap Adapter Assembly (#4) (See Figure 3.1).
- 3.2.4 Remove any excess slack in the straps by using one hand to push around the circumference of the strap towards the direction of the strap buckle while pulling the tag end of the strap with the other hand.
- 3.2.5 The excess tag ends of the straps (#6) can be tucked into the slots of the G3 Swivel Strap Adapter (#5) so they do not interfere with the operation of the G3 Trigger Deadman (#8).

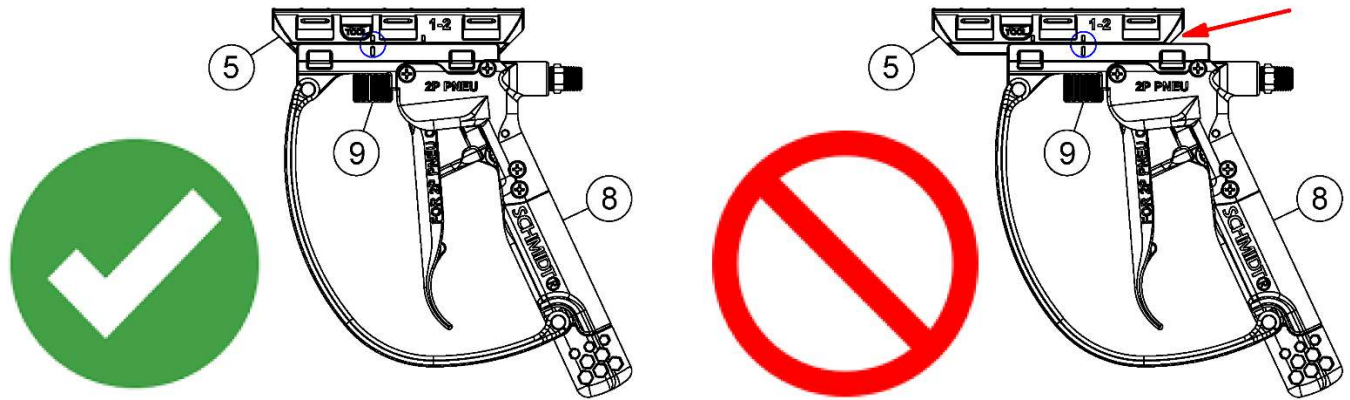


Figure 3.4

- 3.3 Install G3 Trigger Deadman (#8) (See Figures 8.1 – 8.5 for G3 Trigger Deadman options)
- 3.3.1 Unscrew locking knob (#9) until threads clear the rail slot and the G3 Trigger Deadman can slide back and forth.
- 3.3.2 Line up the G3 Trigger Deadman (#8) rail slot with G3 Swivel Strap Adapter rail (#5).
- 3.3.3 Slide the G3 Trigger Deadman (#8) onto the rail (#5) and line up the hash mark located on the side of the G3 Trigger Deadman (#8) above the locking knob (#9) with the forward most hash mark on the G3 Swivel Strap Adapter (#5). (See Figure 3.4)
- 3.3.4 Hand tighten the locking knob (#9).
- 3.4 Remove (Uninstall) BAABS G3 Swivel Strap Adapter Assembly (#4) from blast hose (#3).
- 3.4.1 Disconnect twinline or electrical connection from G3 Trigger Deadman (#8).
- 3.4.2 Loosen the locking knob (#9) to remove G3 Trigger Deadman (#8) from the G3 Swivel Strap Adapter rail (#5).
- 3.4.3 Insert the Swivel Strap Buckle Release Tool (#7) into buckle of the strap (#6) (See Figure 3.1). A small screwdriver can also be used if you do not have a Swivel Strap Buckle Release Tool (#7). Insert the screwdriver into the strap buckle in the same direction as the Swivel Strap Buckle Release Tool shown in Figure 3.1 until it disengages the locking tab in the strap buckle.
- 3.4.4 Loosen the strap (#6) in the same direction as the arrow shown in Figure 3.1 to remove the strap from the blast hose.
- 3.4.5 Repeat steps 3.4.3 and 3.4.4 for the other two straps (#6).



G3 Swivel Strap Assembly Installation



G3 Swivel Strap Removal Without Tool

4.0 Installation of G3 Trigger Deadman



Do Not use a BAABS G3 Swivel Strap Assembly with damaged or incorrect components. Using a BAABS G3 Swivel Strap Assembly with damaged or incorrect components can result in equipment failure or malfunction which can cause severe injury or death. Always check the blast hose and the BAABS G3 Swivel Strap Assembly for damage before each use. Repair or replace any component that shows any sign of wear or other damage.

(See Figure 3.1 for part number identification)

4.1 Installation of Pneumatic G3 Trigger Deadman. Refer to Figures 8.1, 8.2 and 8.4.

- 4.1.1 The *pneumatic* G3 Trigger Deadman (#8) works in junction with a twinline or twinline with abrasive cutoff control line hose assembly. The **2 Position Module** uses a twinline hose assembly consisting of two color coded 3/16" air lines. The air supply line is orange, and the signal/vent line is black. Each hose contains a male flared rigid fitting on one end and a female flared swivel fitting at the other. The supply (orange) line of the twinline has 1/4" fittings, and the signal/vent (black) line has 1/8" fittings. The G3 Trigger Deadman has matching 1/8" and 1/4" male fittings. It is important that the hoses have the correct sized fittings to help mitigate the deadman valve from being installed incorrectly. Connecting the air supply to the incorrect port of the G3 Trigger Deadman will stop the signal from venting and will not allow the blast operation to stop when the deadman trigger is released.



Incorrect connection of the twinline hose to the G3 Trigger Deadman (#8) can result in the inability to stop the blast operation which can result in severe injury or death.

- 4.1.2 Disconnect the twinline or twinline with abrasive cutoff control line hose from the blast system and remove the existing deadman from the twinline or twinline with abrasive cutoff control line.
- 4.1.3 Secure the G3 Trigger Deadman (#8) to the G3 Swivel Strap Adapter rail (#5) if not previously attached (See Figure 3.4).
- 4.1.4 Connect the 1/4" swivel fitting of the twinline to the 1/4" fitting on the G3 Trigger Deadman (#8). No thread sealer is required since fittings are flared. The opposite end of the twinline connects to the blast system air supply.
- 4.1.5 **2 Position Module:** Connect the 1/8" swivel fitting of the twinline to the 1/8" fitting on the G3 Trigger Deadman (#8). No thread sealer is required since fittings are flared. The opposite end of the twinline is the signal air which starts the blast.
- 4.1.6 **2 Position Module w/ACO:** Connect the 1/8" swivel fittings of the twinline with abrasive cutoff control line to the 1/8" fittings on the G3 Trigger Deadman. The black hose attaches to the G3 1/8" fitting labeled black. The black hose is the signal air which starts the air. The green hose attaches to the 1/8" G3 fitting labeled green. The green hose provides a signal to the abrasive metering valve for abrasive. No thread sealer is required since fittings are flared.
- 4.1.7 Reconnect opposite ends of the twinline hose to the mating connections on the abrasive blast system.
- 4.1.8 To test the G3 Trigger Deadman (#8) **2 Position Module**, press down the safety flap (#10) and pull the trigger (#11) to activate the deadman valve and start the blast operation. See Figures 5.1 and 5.2. Release the trigger to stop blasting.
- 4.1.9 To test the G3 Trigger Deadman **2 Position w/ACO Module**, rotate the ACO switch to the "Off" position. Press down the Safety Flap (#10) and pull the Trigger (#11) to activate the deadman valve to start the AIR ONLY operation (See Fig 5.4). Release the trigger to stop blasting. Rotate the ACO switch to the "On" position. Press down the Safety Flap (#10) and pull the Trigger (#11) to activate the deadman valve to start the blast (AIR AND ABRASIVE) operation (See Fig 5.5). Release the trigger to stop blasting.
- 4.1.10 Follow the setup and pre-operating instructions provided with the blast system, then retest the operation of the G3 Trigger Deadman (#8). Check for air leaks at all applicable connections and repair as required.

4.2 Installation of Electric G3 Trigger Deadman. Refer to Figure 8.1, 8.3 and 8.5.

- 4.2.1 The *electric* G3 Trigger Deadman (#8) functions as an electric switch. When the deadman trigger (#11) is pulled it completes the electric circuit and supplies electric current to the blast controls which allows the signal air to activate the blast. When the deadman trigger (#11) is released, the electric current to the blast controls is interrupted, the signal air vents to atmosphere and ends the blast operation.



Electric shock hazard. Abrasive blasters equipped with G3 Trigger Deadman and electric blast control systems must operate on low voltage supply (12V or 24VDC). To minimize shock hazard, only use low voltage sources and use caution when connecting and disconnecting the power source to and from the abrasive blaster.

- 4.2.2 Turn off or disconnect the power source from the blast system and unplug the existing deadman from the blast controls.
- 4.2.3 Secure the G3 Trigger Deadman (#8) to the BAABS G3 Swivel Strap Adapter rail (#5) if not previously attached. See Figure 3.4
- 4.2.4 Connect the electric plug on the G3 Trigger Deadman (#8) into the mating connection on the abrasive blaster.
- 4.2.5 Turn on or reconnect the power source to the abrasive blast system.
- 4.2.6 To test the G3 Trigger Deadman (#8) **2 Position Module** (See Figure 8.3), press down the safety flap (#10) and pull the trigger (#11) to activate the deadman switch and start the blast operation. See Figures 5.1 and 5.2. Release the trigger (#11) to stop blasting.
- 4.2.7 To test the G3 Trigger Deadman **2 Position w/ACO Module**, rotate the ACO switch to the “Off” position. Press down the Safety Flap (#10) and pull the Trigger (#11) to activate the deadman switch to start the AIR ONLY operation (See Fig 5.4). Release the trigger to stop blasting. Rotate the ACO switch to the “On” position. Press down the Safety Flap (#10) and pull the Trigger (#11) to activate the deadman switch to start the blast (AIR AND ABRASIVE) operation (See Fig 5.5). Release the trigger to stop blasting.
- 4.2.8 Follow the setup and pre-operating instructions provided with the blast system, then retest the operation of the G3 Trigger Deadman (#8).

5.0 Standard Operation

2 Position Trigger Deadman (2PP shown)

**AIR OFF
ABRASIVE OFF**

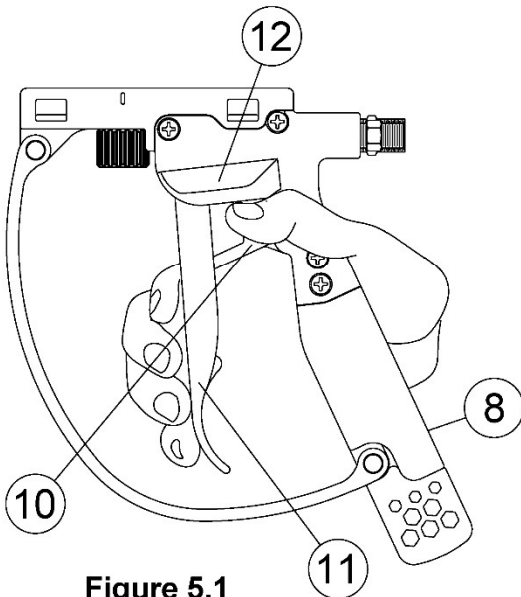


Figure 5.1

**AIR ON
ABRASIVE ON**

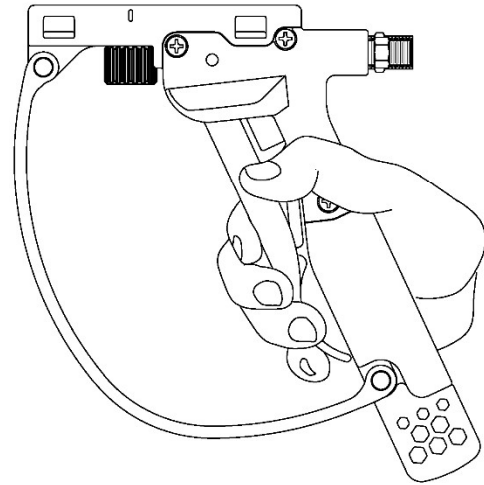


Figure 5.2

G3 Trigger Deadman (2PP or 2PE) Operation

- 5.1 Securely grip G3 Trigger Deadman (#8)
- 5.2 The blast hose (#3) should be on the same side as the hand that is gripping the G3 Trigger Deadman (#8), such as between the arm and torso. Pull the blast hose as close to the body as comfortably possible. This will make managing the thrust of the blast hose easier.
- 5.3 Place the free hand that is not operating the G3 Trigger Deadman (#8) on top of the nozzle holder (#2) or blast hose (#3) for added control and safety.
- 5.4 Place the thumb on top of safety flap (#10) and just under the curved safety flap guard (#12) on the trigger deadman handle. Thumb must be placed in the proper location to easily move the safety flap (#10) down to allow the trigger (#11) to move to the blast position. (See Figure 5.1) Only place thumb in ready position when ready to blast. Refer to video link below.
- 5.5 Prepare for thrust before turning on blast air by activating G3 Trigger Deadman (#8).
 - 5.5.1 Take a wide stance with one foot forward and one back. The back foot based on operator comfort.
 - 5.5.2 Prior to activating blast, shift body weight towards front foot, leaning forward slightly. Upon activation, the nozzle (#1) thrust should push the operator back to more centered weight distribution.
 - 5.5.3 To maintain balance, always keep torso or body center of mass between feet while blasting.
 - 5.5.4 Keep hands close to the body in a comfortable position with elbows bent at about 90 degrees.
- 5.6 Activate the deadman by pushing the safety flap (#10) down and out of the trigger safety lock position with the thumb and pulling back on the deadman trigger (#11) with the fingers.
 - 5.6.1 The G3 Trigger Deadman (#8) is 2 position (Blast OFF/ON: see Figures 8.1 – 8.3). The hand position will move from Figure 5.1 to Figure 5.2.
- 5.7 Release deadman trigger (#11) to stop blasting. The safety flap (#10) will spring back into the safety position to guard against accidental blast activation.



G3 Trigger Deadman Hand Placement

2 Position Trigger Deadman with Abrasive Cutoff (2PP w/ACO shown)

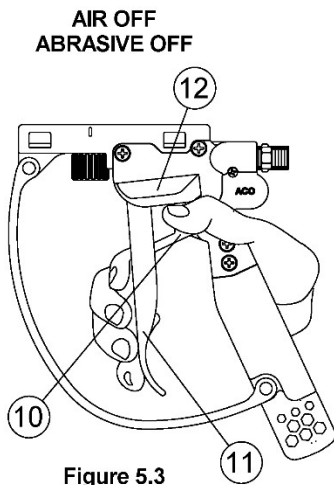


Figure 5.3

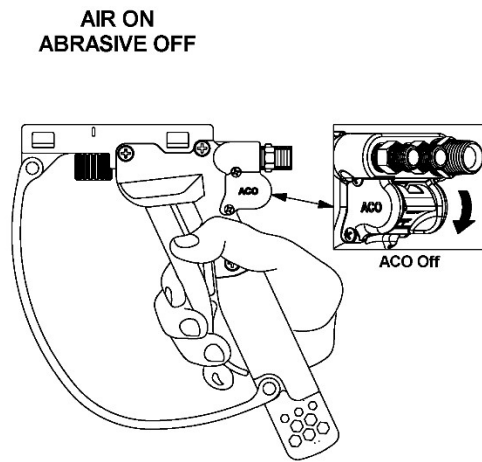


Figure 5.4

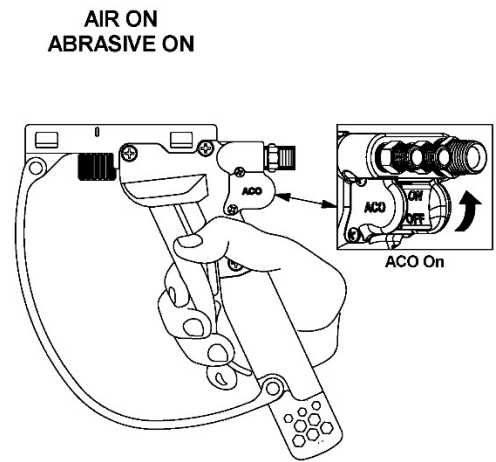


Figure 5.5

G3 Trigger Deadman with Abrasive Cutoff (2PP w/ACO or 2PE w/ACO) Operation

- 5.8 An optional feature of a Thompson® Valve / Teravalve XL® blaster is abrasive cutoff. The abrasive cutoff option enables the abrasive to be turned “on” or “off” allowing only blast air to exit the blast nozzle. There are two uses for the abrasive cutoff feature. First is to allow blasting air without abrasive. This is useful for blowing off abrasive from the item blasted. The second use for the abrasive is to purge abrasive out of a long blast hose. This protects against abrasive from collecting in the blast hose when the blast operation is stopped. The abrasive at rest in the blast hose can cause surges when restarting the blast operation.

For the abrasive cutoff to work a second control valve is needed that provides a signal to the Thompson Valve / Teravalve XL® separate of the air signal to the automatic air valve.

Note: The abrasive cutoff feature is optional; however, factory conversion kits are available to upgrade Thompson Valve / Teravalve XL® blasters to include this feature. Consult Axxiom Manufacturing or an Authorized Schmidt® distributor.
- 5.9 Securely grip G3 Trigger Deadman Assembly (#8).
- 5.10 The blast hose (#3) should be on the same side as the hand that is gripping the G3 Trigger Deadman (#8), such as between the arm and torso. Pull the blast hose as close to the body as comfortably possible. This will make managing the thrust of the blast hose easier.
- 5.11 Place the free hand that is not operating the G3 Trigger Deadman (#8) on top of the nozzle holder (#2) or blast hose (#3) for added control and safety.
- 5.12 Place the thumb on top of safety flap (#10) and just under the curved safety flap guard (#12) on the trigger deadman handle. Thumb must be placed in the proper location to easily move the safety flap (#10) down to allow the trigger (#11) to move to the blast position. (See Figure 5.3) Only place thumb in ready position when ready to blast. Refer to video link on previous page.
- 5.13 Prepare for thrust before turning on blast air by activating G3 Trigger Deadman (#8).
 - 5.13.1 Take a wide stance with one foot forward and one back. The back foot based on operator comfort.
 - 5.13.2 Prior to activating blast, shift body weight towards front foot, leaning forward slightly. Upon activation, the nozzle (#1) thrust should push the operator back to more centered weight distribution.
 - 5.13.3 To maintain balance, always keep torso or body center of mass between feet while blasting.
 - 5.13.4 Keep hands close to the body in a comfortable position with elbows bent at about 90 degrees.
- 5.14 Rotate the ACO switch to the desired position.
 - 5.14.1 Rotate the ACO switch to the “Off” position if you want AIR ONLY exiting the blast nozzle (Figure 5.4).
 - 5.14.2 Rotate the ACO switch to the “On” position if you want AIR AND ABRASIVE exiting the blast nozzle (Figure 5.5).
- 5.15 Activate the deadman by pushing the safety flap (#10) down and out of the trigger safety lock position with the thumb and pulling back on the deadman trigger (#11) with the fingers.
- 5.16 Release deadman trigger to stop blasting. Safety flap will spring back into the safety position to guard against accidental blast activation.

6.0 Maintenance and Inspection



Do Not use a BAABS Swivel Strap Assembly with damaged or incorrect components. Using a BAABS Swivel Strap Assembly with damaged or incorrect components can result in equipment failure or malfunction which can cause severe injury or death. Always check the blast hose and the BAABS Swivel Strap Assembly for damage before each use. Repair or replace any component that shows any sign of wear or other damage.

- 6.1 Refer to Hose Inspection video link below.
 - 6.1.1 Remove BAABS G3 Swivel Strap Assembly (#4) from blast hose (#3) and disconnect electric or pneumatic connections daily. See Section 3.4 for removal procedure.
 - 6.1.2 Inspect blast hose (#3). If the blast hose is frayed, replace the blast hose, or cut back to good hose. (See Figure 6.1)

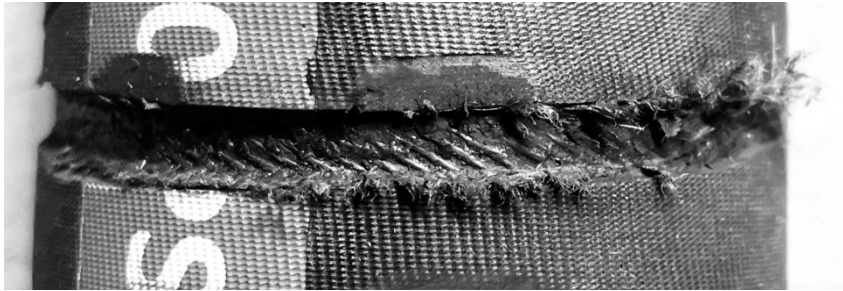


Figure 6.1

- 6.1.3 Check the G3 Swivel Strap Adapter (#5) for signs of wear. Replace if worn.
 - 6.1.4 Inspect straps (#6) for wear, cuts or cracks. Replace if worn or damaged.
 - 6.1.5 Blow off or clean parts of G3 Swivel Strap Adapter Assembly (#4) thoroughly before installing on blast hose (#3) (See Section 3.2 for installation).

BAABS: Hose Inspection



- 6.2 Electric G3 Trigger Deadman Assembly
 - 6.2.1 While electric supply to the G3 Trigger Deadman (#8) is disconnected, push the safety flap (#10) down and squeeze the trigger (#11) until it is fully engaged (See Figures 5.1 - 5.2). Release the trigger. The trigger and safety flap should return to off position. Squeeze the trigger again, without moving the safety flap, to confirm the safety flap does not allow the trigger to move. If the trigger and safety flap do not return to the off position, clean the trigger and safety flap pivot points. Repeat until the trigger and safety flap function properly. (See Figure 8.3)
 - 6.2.2 Periodically check wiring for bare spots, fraying, cuts, or cracks. Repair or replace any components that show signs of wear or damage. Damaged wires can cause abrasive system malfunctions resulting in accidental and unintentional blast startup which may result in severe injury or death to operating personnel.
 - 6.2.3 Refer to Section 9.0 for typical troubleshooting procedures regarding the G3 Trigger Deadman (#8).
- 6.3 Pneumatic G3 Trigger Deadman Assembly
 - 6.3.1 While air supply to the G3 Trigger Deadman (#8) is disconnected, push the safety flap (#10) down and squeeze the trigger (#11) until it is fully engaged (See Figures 5.1 - 5.2). Release the trigger. The trigger and safety flap should return to off position. Squeeze the trigger again, without moving the safety flap, to confirm the safety flap does not allow the trigger to move. If the trigger and safety flap do not return to the off position, clean the trigger and safety flap pivot points. Repeat until the trigger and safety flap function properly. (See Figure 8.2)
 - 6.3.2 Dirty air supply and/or back flow situations can result in an accumulation of debris in the twinline and trigger module body which can result in malfunctions. Clean out or replace twinline. Replace G3 Trigger Deadman Control Module Assembly if necessary. See Section 9.0 for troubleshooting procedures.

BAABS: G3 Deadman Maintenance



7.0 BAABS G3 Swivel Strap Assemblies

4501-01P	BAABS G3 Swivel Strap Assembly, Blast Hose 1/2"-1-1/2" HW, G3 2PP (2-Position Pneu)	
4501-02P	BAABS G3 Swivel Strap Assembly, Blast Hose 1/2"-1-1/2" HW, G3 2PE (2-Position Elec)	
4503-01P	BAABS G3 Swivel Strap Assembly, Blast Hose 1/2"-1-1/2" HW, G3 2PP ACO (2-Position Pneu w/ACO)	
4503-02P	BAABS G3 Swivel Strap Assembly, Blast Hose 1/2"-1-1/2" HW, G3 2PE ACO (2-Position Elec w/ACO)	
ITEM	PART NUMBER	DESCRIPTION
1	4500-000-100	BAABS G3 Swivel Strap Adapter Subassembly, Blast Hose 1/2"-1-1/2" HW (G3 Trigger Deadman not included)
2	4500-005-102	BAABS G3 Swivel Strap Adapter, Blast Hose 1/2"-1" HW (See Chart Figure 3.2)
	4500-007-102	BAABS G3 Swivel Strap Adapter, Blast Hose 1-1/4"-1-1/2" HW (See Chart Figure 3.2)
3	4500-000-101PKG	BAABS Strap (12 Pack of Straps Includes 3 Swivel Strap Buckle Release Tools)
4	4500-000-103	BAABS Swivel Strap Buckle Release Tool
5	2270-101	G3 Trigger Deadman Assembly 2PP (2-Position Pneu) (See Figure 8.1 and 8.2) (Shown)
	2270-102	G3 Trigger Deadman Assembly 2PE (2-Position Elec) (See Figure 8.1 and 8.3)
	2270-301	G3 Trigger Deadman Assembly 2PP ACO (2-Position Pneu w/ACO) (See Figure 8.1 and 8.4)
	2270-302	G3 Trigger Deadman Assembly 2PE ACO (2-Position Elec w/ACO) (See Figure 8.1 and 8.5)
* 4500-000-100, 4501-01P, 4501-02P, 4503-01P, 4503-02P assemblies include both sizes of G3 Swivel Strap Adapters (#2), 6 Straps (#3) and 3 Swivel Strap Buckle Release Tools (#4).		

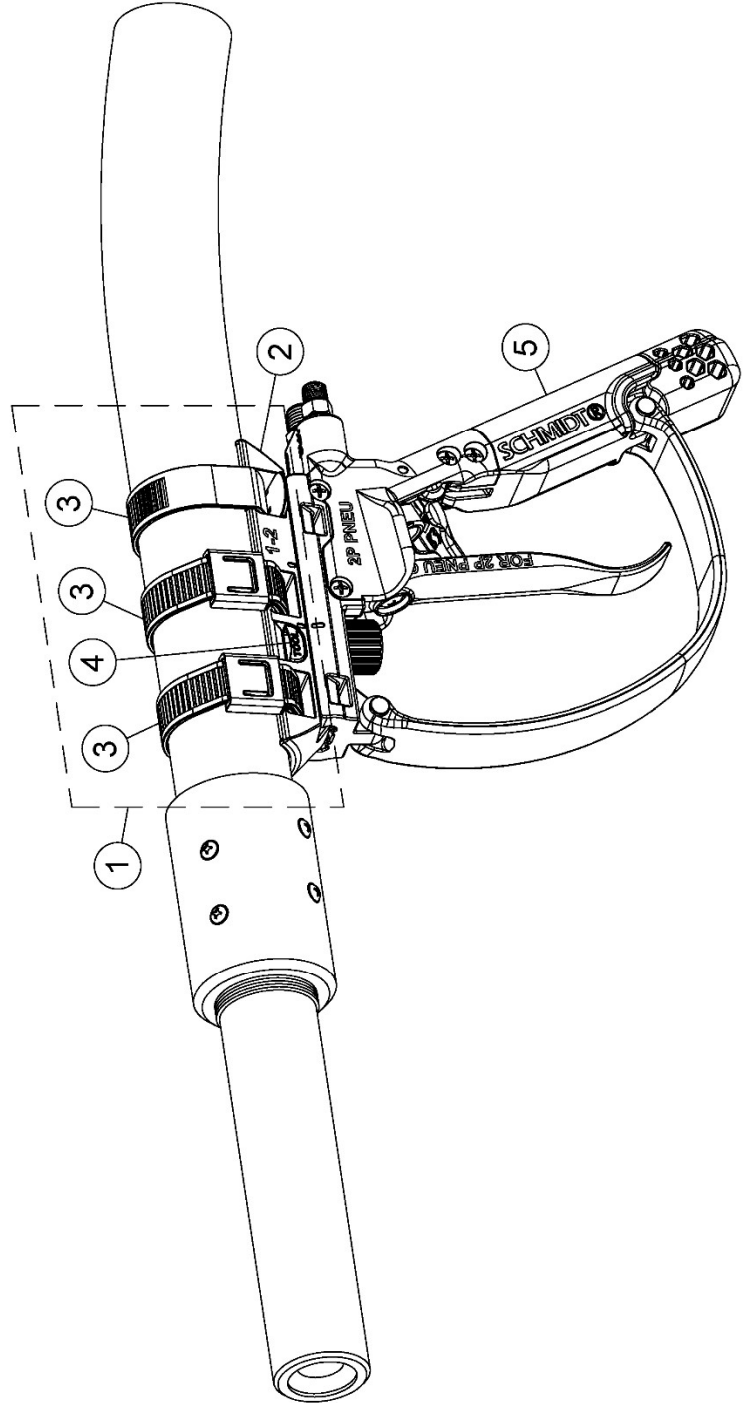


Figure 7.1

8.0 G3 Trigger Deadman Assemblies

No.	Part No.	Description
	2270-101	G3 Trigger Deadman Assembly 2PP (2- Position Pneumatic)
	2270-102	G3 Trigger Deadman Assembly 2PE (2- Position Electric)
	2270-301	G3 Trigger Deadman Assembly 2PP ACO (2- Position Pneumatic w/ACO)
	2270-302	G3 Trigger Deadman Assembly 2PE ACO (2- Position Electric w/ACO)
G3 Trigger Deadman Base Grip Assembly Part List		
1.	2270-000-01P	Grip
2.	2270-000-02	Trigger Guard
3.	2270-000-08PKG	Trigger Guard Pin (Package of 4)
4.	2270-000-07PKG	Bumper (Package of 2)
5.	4500-000-05PKG	Locking Knob w/ Bolt (Package of 3)
6.	2270-000-03APKG	Safety Flap Assembly (Package of 2)
7.	2270-000-15PKG	Thread Forming Screw, #8-16 x 3/4" Lg. (Package of 4)
* See Figures 8.2 - 8.5 for 2-Position Trigger Deadman Control Module Subassemblies		
	2270-101CM	G3 Trigger Deadman Control Module 2PP (2-Position Pneumatic)
	2270-102CM	G3 Trigger Deadman Control Module 2PE (2-Position Electric)
	2270-301CM	G3 Trigger Deadman Control Module 2PP ACO (2-Position Pneumatic w/ACO)
	2270-302CM	G3 Trigger Deadman Control Module 2PE ACO (2-Position Electric w/ACO)

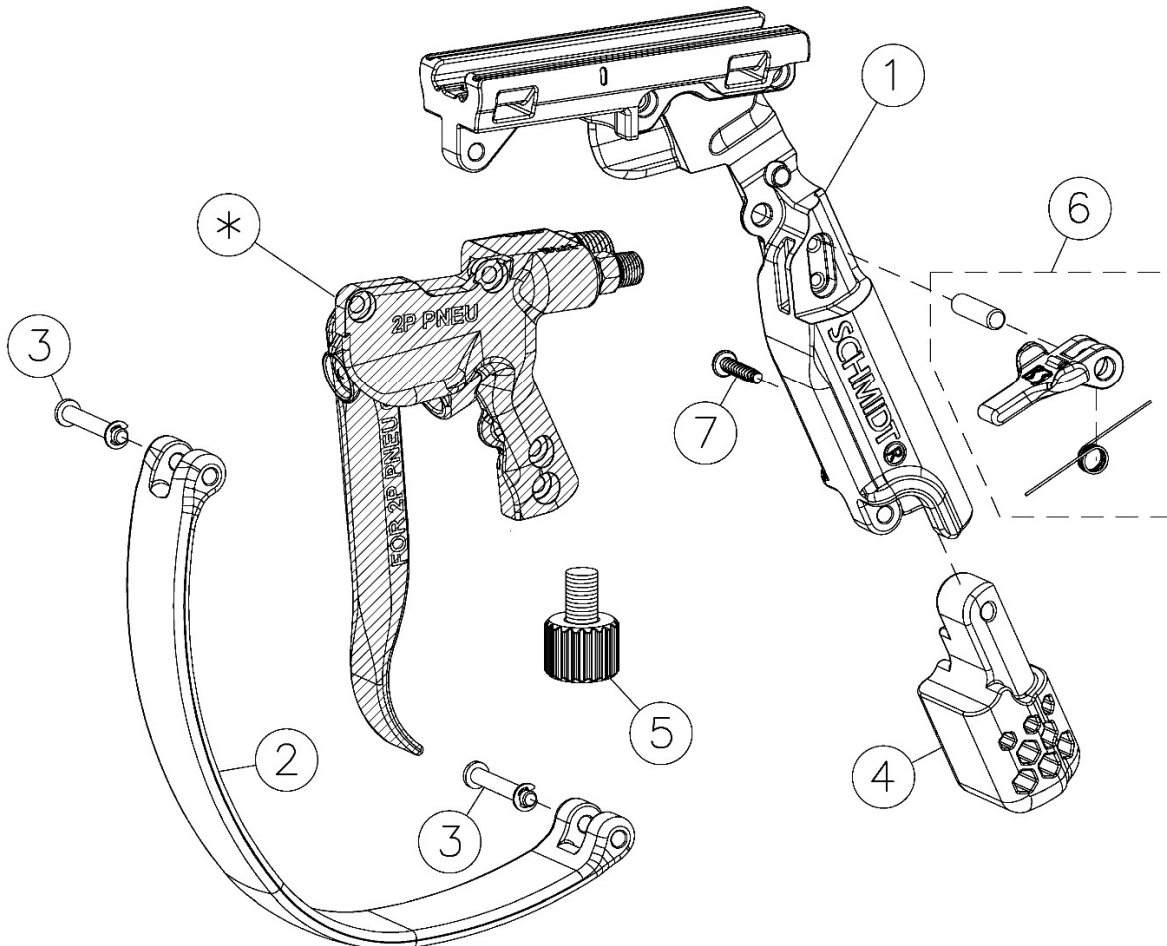
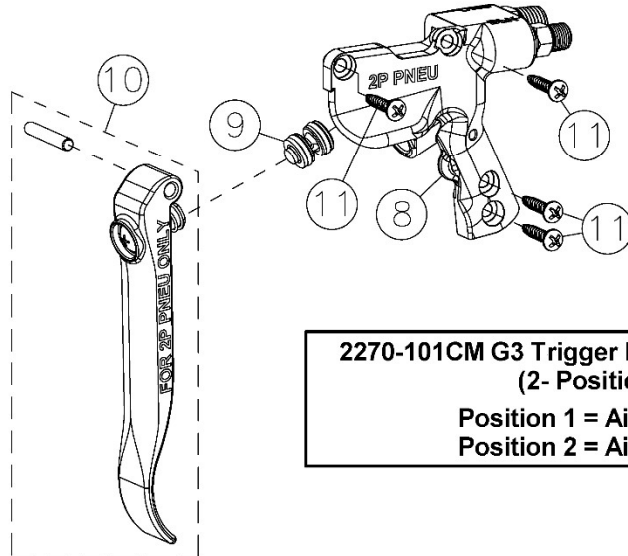


Figure 8.1

Figure 8.2

G3 Trigger Deadman Control Module 2PP

2270-101CM		G3 Trigger Deadman Control Module Subassembly 2PP (2-Position Pneu)
No.	Part No.	Description
8.	Not Available	Deadman Control Module Body 2PP (2-Position Pneu)
9.	2263-002-03	Cartridge Assembly
10.	2270-101T	Deadman Trigger Subassembly 2PP (2-Position Pneu)
11.	2270-000-15PKG	Thread Forming Screw, #8-16 x 3/4" Lg. (Package of 4)



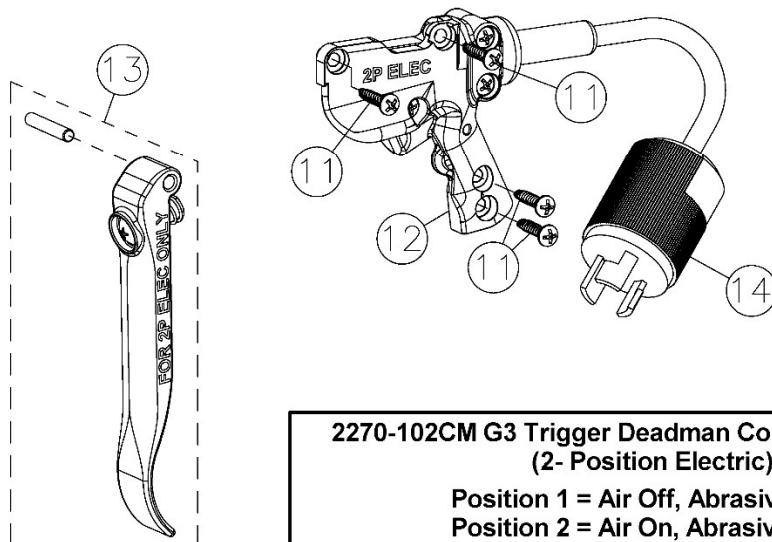
**2270-101CM G3 Trigger Deadman Control Module 2PP
(2- Position Pneumatic)**

Position 1 = Air Off, Abrasive Off
Position 2 = Air On, Abrasive On

Figure 8.3

G3 Trigger Deadman Control Module 2PE

2270-102CM		G3 Trigger Deadman Control Module Subassembly 2PE (2-Position Elec)
No.	Part No.	Description
11.	2270-000-15PKG	Thread Forming Screw, #8-16 x 3/4" Lg. (Package of 4)
12.	Not Available	Deadman Control Module Body 2PE (2-Position Elec)
13.	2270-102T	Deadman Trigger Subassembly 2PE (2-Position Elec)
14.	7109-301	Electric Plug, 3- Prong Twist-Lock



**2270-102CM G3 Trigger Deadman Control Module 2PE
(2- Position Electric)**

Position 1 = Air Off, Abrasive Off
Position 2 = Air On, Abrasive On

Figure 8.4

G3 Trigger Deadman Control Module 2PP w/ACO

No.	Part No.	Description
	2270-301CM	G3 Trigger Deadman Control Module Subassembly 2PP ACO (2-Position Pneu w/ACO Switch)
9.	2263-002-03	Cartridge Assembly
10.	2270-101T	Deadman Trigger Subassembly 2PP (2-Position Pneu)
11.	2270-000-15PKG	Thread Forming Screw, #8-16 x 3/4" Lg. (Package of 4)
15.	Not Available	Deadman Control Module Body 2PP ACO (2-Position Pneu w/ACO Switch)

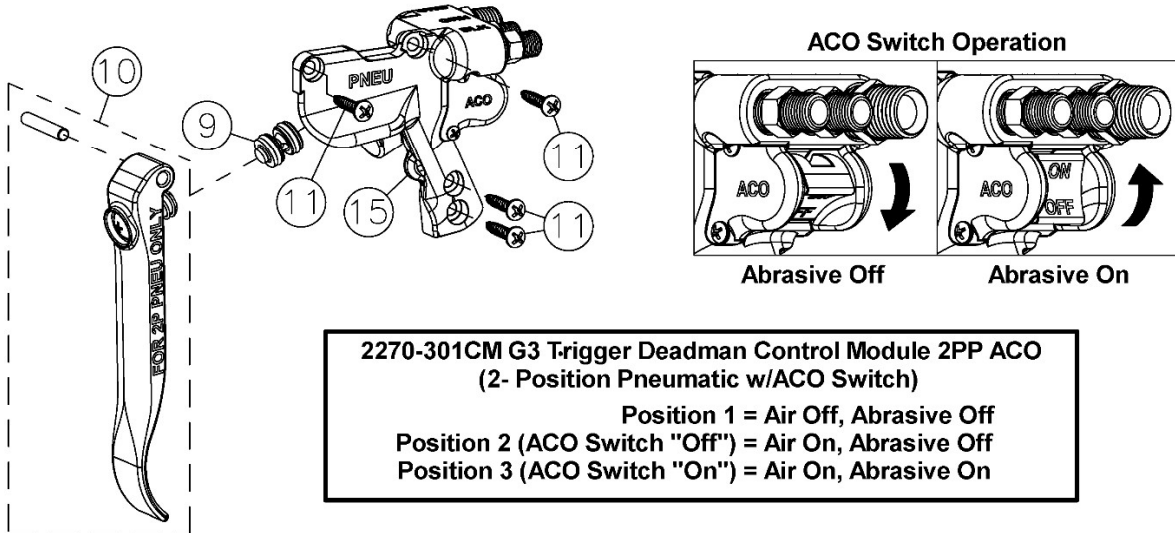
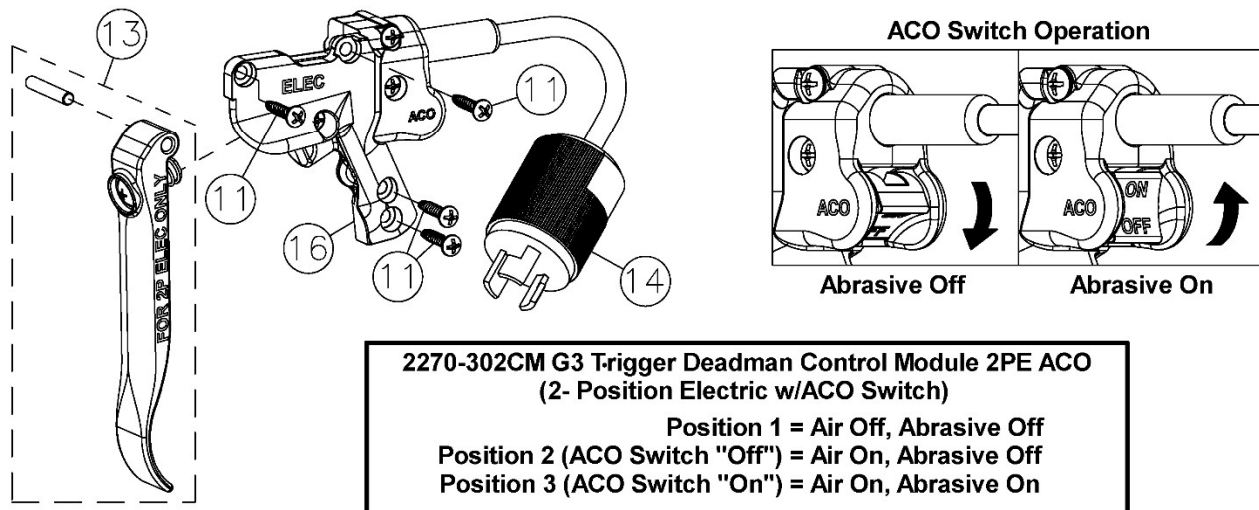


Figure 8.5

G3 Trigger Deadman Control Module 2PE w/ACO

	2270-302CM	G3 Trigger Deadman Control Module Subassembly 2PE ACO (2-Position Elec w/ACO Switch)
No.	Part No.	Description
11.	2270-000-15PKG	Thread Forming Screw, #8-16 x 3/4" Lg. (Package of 4)
13.	2270-102T	Deadman Trigger Subassembly 2PE (2-Position Elec)
14.	7109-301	Electric Plug, 3- Prong Twist-Lock
16.	Not Available	Deadman Control Module Body 2PE ACO (2-Position Elec w/ACO Switch)



2 Position Trigger Deadman 2Px

9.0 Troubleshooting	
Pneumatic G3 Trigger Deadman <i>(Refer to Figures 8.1 and 8.2)</i>	Electric G3 Trigger Deadman <i>(Refer to Figures 8.1 and 8.3)</i>
9.1 Air Leaks from the Trigger Deadman Control Module (2PP only):	
1. Defective cartridge assembly (#9). <i>Replace cartridge assembly.</i> 2. Twinline hose connected incorrectly. <i>Verify air supply connection to trigger module 1/4" male fitting).</i>	<i>Not Applicable</i>
9.2 Blast Outlet Air and Abrasive Will Not Shut Off When Trigger is Released:	
1. Twinline hose connected incorrectly. <i>Verify air supply connection to trigger module 1/4" male fitting.</i> 2. Debris blocking flow in black twinline signal/vent line. <i>Purge twinline hoses.</i> 3. Cartridge assembly (#9) is stuck in the "ON" position. <i>Defective cartridge assembly or trigger deadman module body (#8); inspect and/or replace as needed.</i> 4. Trigger (#10) and / or safety flap (#6) pivot point is stuck. <i>With air supply off, move the trigger and safety flap back and forth until they move freely. (See Section 6.3.1)</i> 5. Defective control valve or stuck in "ON" position.	1. Defective control module (#12) electric push-button switch or electric wiring. <i>Check for an electric short.</i> 2. Trigger (#13) and / or safety flap (#6) pivot point is stuck. <i>With electric supply off, move the trigger and safety flap back and forth until they move freely. (See Section 6.2.1)</i> 3. Defective control valve or stuck in "ON" position.
9.3 Blast Outlet Starts Unintentionally:	
1. G3 trigger (#10) is worn out. <i>Inspect and/or replace as needed.</i> 2. Trigger spring in trigger assembly (#10) is worn, missing, or broken. <i>Inspect and replace springs as needed.</i> 3. Defective cartridge assembly (#9). <i>Missing or damaged O-rings; replace cartridge assembly.</i>	1. G3 trigger (#13) is worn out. <i>Inspect and/or replace as needed.</i> 2. Trigger spring in trigger assembly (#13) is worn missing or broken. <i>Inspect and replace spring as needed.</i> 3. Defective control module (#12) electric push-button switch or electric wiring. <i>Check for an electric short.</i>
9.4 Blast Outlet is Slow to Turn on or Will Not Turn on When Trigger is Activated:	
1. Debris blocking flow in black twinline signal/vent line. <i>Purge twinline hoses.</i> 2. Air leaks in twinline connections. <i>Tighten connections.</i> 3. Debris blocking flow through cartridge assembly (#9). <i>Purge cartridge assembly.</i>	1. No power or insufficient power source. <i>Check all electrical connections for proper mating. A power supply or transformer can be used if the correct voltage is not readily available.</i>
9.5 If Problems Persist, Consult the Blaster Operation and Maintenance Manual for Further Troubleshooting Procedures.	

2 Position Trigger Deadman 2Px w/ACO

9.0 TROUBLESHOOTING (continued)	
Pneumatic G3 Trigger Deadman w/ACO <i>(Refer to Figure 8.1 and 8.4)</i>	Electric G3 Trigger Deadman w/ACO <i>(Refer to Figure 8.1 and 8.5)</i>
9.6 Air Leaks from the Trigger Deadman Control Module (pneumatic only):	
1. Defective cartridge assembly (#9). <i>Replace cartridge assembly.</i> 2. Twinline hose connected incorrectly. <i>Verify air supply connection to trigger module 1/4" male fitting).</i>	<i>Not Applicable</i>
9.7 Blast Outlet Air and Abrasive Will Not Shut Off When Trigger is Released:	
1. Twinline hose connected incorrectly. <i>Verify air supply connection to trigger module 1/4" male fitting.</i> 2. Debris blocking flow in black twinline signal/vent line. <i>Purge twinline hoses.</i> 3. Cartridge assembly (#9) is stuck in the "ON" position. <i>Defective cartridge assembly or trigger module body (#15); inspect and/or replace as needed.</i> 4. Trigger and / or Safety Flap pivot point is stuck. <i>With air supply off, move the Trigger and Safety Flap back and forth until they move freely. (See Section 6.3.1)</i> 5. Defective control valve or stuck in "ON" position.	1. Defective control module (#16) electric push-button switch or electric wiring. <i>Check for an electric short.</i> 2. Trigger and / or Safety Flap pivot point is stuck. <i>With electric supply off, move the Trigger and Safety Flap back and forth until they move freely. (See Section 6.2.1)</i> 3. Defective control valve or stuck in "ON" position
9.8 Blast Outlet Starts Unintentionally:	
1. G3 trigger (#10) is worn out. <i>Inspect and/or replace as needed.</i> 2. Trigger spring in Trigger Assembly (#10) is worn, missing, or broken. <i>Inspect and replace spring as needed.</i> 3. Defective cartridge assembly (#9). <i>Missing or damaged O-rings; replace cartridge assembly.</i>	1. G3 trigger (#13) is worn out. <i>Inspect and/or replace as needed.</i> 2. Trigger spring in Trigger Assembly (#13) is worn missing or broken. <i>Inspect and replace spring as needed.</i> 3. Defective control module (#16) electric push-button switch or electric wiring. <i>Check for an electric short.</i>
9.9 Blast Outlet is Slow to Turn on or Will Not Turn on When Trigger is Activated:	
1. Debris blocking flow in black twinline signal/vent line. <i>Purge twinline hoses.</i> 2. Air leaks in twinline connections. <i>Tighten connections.</i> 3. Debris blocking flow through cartridge assembly (#9). <i>Purge cartridge assembly.</i>	1. No power or insufficient power source. <i>Check all electrical connections for proper mating. A power supply or transformer can be used if the correct voltage is not readily available.</i>
9.10 Blast Outlet Abrasive Will Not Shut Off When ACO Switch is in the "Off" Position:	
1. ACO switch components sticking. <i>With air supply off, rotate the ACO switch back and forth while blowing clean air behind the ACO switch until they move freely.</i> 2. ACO Cartridge assembly is stuck in the "ON" position. <i>Defective cartridge assembly or trigger module body (#15); inspect and/or replace as needed.</i> 3. Defective abrasive control valve or stuck in "ON" position.	1. ACO switch components sticking. <i>With air supply off, rotate the ACO switch back and forth while blowing clean air behind the ACO switch until they move freely.</i> 2. Defective control module (#16) electric push-button switch or electric wiring. <i>Check for an electric short.</i> 3. Defective abrasive control valve or stuck in "ON" position.
9.11 If Problems Persist, Consult the Blaster Operation and Maintenance Manual for Further Troubleshooting Procedures.	

10.0 Recommended Spare Parts

A) Items For BAABS G3 Swivel Strap Assembly		
Qty	Part Number	Description
1	2270-000-01P	G3 Trigger Deadman Grip
1	2270-000-03APKG	G3 Trigger Deadman Safety Flap Subassembly (Package of 2)
1	4500-000-101PKG	BAABS Strap (Includes 12 Straps and 3 Strap Buckle Release Tools)
1	4500-000-05PKG	Locking Knob w/bolt (Package of 3)
B) Items For Pneumatic Controls Only		
1	2270-101CM	G3 Trigger Deadman Control Module 2PP (2-Position Pneu)
C) Items For Electric Controls Only		
1	2270-102CM	G3 Trigger Deadman Control Module 2PE (2-Position Elec)
D) Items For Pneumatic Controls w/ACO Only		
1	2270-301CM	G3 Trigger Deadman Control Module 2PP ACO (2-Position Pneu w/ACO)
E) Items For Electric Controls w/ACO Only		
1	2270-302CM	G3 Trigger Deadman Control Module 2PE ACO (2-Position Elec w/ACO)

11.1 Warranty

The following section is to be used as a guide in determining warranty policies and procedures for SCHMIDT® products. It is to be used in determining whether a warranty is justified and as a procedural guide in completing a SCHMIDT warranty claim.

11.2 Warranty Policy

1. All SCHMIDT products are guaranteed to be free of defects in material and workmanship at time of shipment. Axxiom Manufacturing, Inc. warrants its products against defects in material and workmanship under normal and proper use for a period of ninety (90) days from the date of delivery. Such warranty is extended only to the buyer who purchases the equipment directly from Axxiom Manufacturing, Inc., or its authorized distributors. This warranty does not include expendable parts such as, but not limited to, hoses, nozzles, and seals.
2. The obligation under this warranty is strictly limited to the replacement or repair, at Axxiom's option, of machines and does not include the cost of transportation, loss of operating time, or normal maintenance services. Axxiom Manufacturing, Inc. shall have no liability for labor, consequential damages, freight, or special charges.
3. This warranty does not apply to failure occurring due to abuse, misuse, negligence, corrosion, erosion, normal wear and tear, alterations or modifications made to the machine without express written consent of Axxiom Manufacturing, Inc.
4. Warranty requests must be submitted in writing within thirty (30) days after failure.
5. Written authorization to return merchandise under warranty must first be obtained from Axxiom Manufacturing, Inc. In no case shall merchandise be returned to Axxiom for credit without authorization. At the time of authorization, Axxiom will issue a return authorization number that must be included on all packages and correspondence. Any material returned without prior authorization will remain the property of the sender and Axxiom will not be responsible for it.

6. All returns must be shipped prepaid freight. All returns may be exchanged for other equipment or parts of equal dollar value. If goods are not exchanged, they are subject to a 20% restocking charge. Any cost incurred by Axxiom Manufacturing, Inc. to restore such goods to first class condition will be charged to the customer.
7. Axxiom Manufacturing, Inc. reserves the right to inspect and make the final decision on any merchandise returned under warranty.
8. Axxiom Manufacturing, Inc. offers no warranty with respect to accessories, including but not limited to, engines, motors, batteries, tires, and any other parts not manufactured by Axxiom Manufacturing, Inc., but which the original manufacturer warrants.
9. Axxiom Manufacturing, Inc. reserves the right to make product changes or improvements without prior notice and without imposing any obligation upon itself to install the same on its products previously sold.
10. The above warranty conditions can only be altered by Axxiom Manufacturing, Inc. Axxiom must confirm alterations in writing for each specific transaction.
11. Axxiom Manufacturing, Inc. reserves the right to establish specific warranty terms for used or demo machines on an individual transaction basis. Invoices covering such merchandise will clearly state the provisions of the applicable warranty for each specific transaction.
12. USE OF NON-ORIGINAL SCHMIDT® FACTORY REPLACEMENT PARTS ON ANY SCHMIDT EQUIPMENT VOIDS ALL WARRANTIES.
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NOTES



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