SETTING UP THE MODEL 210B SRA



SAFETY PRECAUTIONS FOR THE MODEL 210B SRA



System Under Pressure: Shut off air supply and disconnect air hose before disassembling or disconnecting parts.



Flying Debris: During boring, chips may be ejected. Stay behind control panel and wear safety glasses to prevent eye injury.



Pinch Points: Keep hand clear of carriage assembly. Hands or fingers caught between carriage and frame may be seriously injured.



Moving Parts: When moving drill unit, use carriage lock to prevent assembly from sliding onto hands or fingers.



Heavy Load: Use handles to reposition the drill unit. Weight of the drill unit may cause back strain if improperly lifted.

SAFETY PRECAUTIONS FOR THE MODEL 210B SRA (continued)

Loud Noise: Wear ear protection to prevent eardrum damage from air compressor.

Dust: Wear a dust protection mask to protect from concrete dust.

High Pressure: High pressure from the air compressor can damage the drill, and can void the warranty.

Lifting The Drill Unit: when using a lifting device to pick up the drill unit, use a strap or chain which is rated for the proper weight, and attach to the lifting bale on the drill unit. Be sure carriage lock is in place.

ATTACHING THE HOSE THE DRILL UNIT

- The Model 210B SRA requires a minimum ³/₄" hose and a minimum of 100 cfm of air.
- Make sure all safety precautions are followed with the hose and all hose connections.
- IMPORTANT: AIR COMPRESSOR MUST MAINTAIN 100-110 PSI WHILE ALL DRILLS ARE DRILLING

SET UP FOR THE MODEL 210B SRA

• Always keep the lever on the rock shown at right in line with the drill motor.

 If the lever is in the position shown at right, the air will be shut off from the drill motor and will not run.







System Under Pressure: Shut off air supply and disconnect air hose before disassembling or disconnecting parts.

(to remove pressure from system, have air supply disconnected from drill unit, and open the Power lever to the "On" position)

- IMPORTANT: The chuck size of the drill bits must match the chuck size of the drill. Look for the decal on the side of the drill motor to confirm the chuck size. Most E-Z Drill models come standard with 7/8"x 3 ¼" chuck. However, a 7/8" x 4 ¼" chuck and 1" x 4 ¼" chuck are available on request.
- All 210 series E-Z Drill models use 6" of the usable length of the bit (i.e. a 24" bit will drill up to 18" deep; an 18" bits will drill up to 12" deep.



• IMPORTANT: You must have the correct bit guide bushing to match the bit you will be using:

For drilling a:

5/8" diameter hole, use 1108 MCP 3/4" diameter hole, use 1109 MCP 7/8" diameter hole, use 1110 MCP 1" diameter hole, use 1111 MCP 1 1/8" or larger diameter hole, use 1112 MCP

 Part numbers above will fit bits with either 7/8" x 3 ¼" or 7/8" x 4 ¼" chucks. For 1" x 4 ¼" chucks, see parts book.



- To install a drill bit, loosen the swivel bolt until you can swing it out away from the lower bit guide.
- NOTE: You can use the wrench provided on the side of the control panel.







• Open the retainer latch on the drill motor.



• Place the bit into the chuck and close the latch.

• Close the bit guide around the bit and tighten the swivel bolt.





• You may have to adjust the return stop rod so that the end of the bits clears the bit guide.



 To adjust the stop rods, loosen the stop rod nuts. Move the stop rod in the direction needed to the required location and re-tighten the nuts.



 If you are using 2-piece Hthread bits, you may also have to adjust the guide plates.

 Newer models have guide wheels installed in place of the guide plates. These wheels are also adjustable.





ADJUSTING THE HEIGHT OF THE DRILL SYSTEM

Adjusting the height of the drill systems is done by turning the mast screw jack assembly located at the top of the mast. Before turning the screw jack, you must first loosen the ½" x 1 ½" bolts on the sides of the mast.





ADJUSTING THE HEIGHT OF THE DRILL SYSTEMS

- Again, you can use the wrench provided with the drill unit to turn the nut at the top of the mast. As soon as you have adjusted the mast to the required height, retighten the bolts on the side of the mast.
- NOTE: It is easier to turn the screw jack when the drill is in the vertical position, but you will need to lower the drill into the horizontal position to check for proper height.



Activating this control will cause the drill system lower down to the horizontal position. Make sure everyone is clear of the drill unit before lowering the drill system



LEVELING THE DRILL SYSTEMS

IMPORTANT: BEFORE LEVELING THE DRILL SYSTEMS, CONFIRM THE ANGLE REQUIRED. MANY TIMES THE DRILL SYSTEM IS NOT BE "LEVEL WITH THE WORLD", THEY SHOULD BE SET DRILL PARALLEL WITH THE TOP OF THE CONCRETE SLAB INTO WHICH YOU ARE DRILLING.

LEVELING THE DRILL SYSTEMS

 On the all-thread coming out of the bottom of the Auto Align cylinder, turn the top nut to change the angle of the drill system.



LEVELING THE DRILL SYSTEMS

NOTE: THIS ADJUSTMENT WILL BE REQUIRED ANYTIME YOU HAVE BEEN DRILLING HORIZONTAL HOLES, AND WANT ADJUST TO DRILL STRAIGHT VERTICAL HOLES, OR VICE VERSA.

 To adjust the drills to ensure the desired depth, make sure all other adjustments have been made and the air supply is connected to the drill. Maneuver the drill to the edge of the concrete slab.



Heavy Load: Use handles to reposition the drill unit. Weight of the drill unit may cause back strain if improperly lifted.



 MAKE SURE AIR SUPPLY IS ON TO THE DRILL UNIT, AND THE "RAISE & LOWER" VALVE IS IN THE "RAISE" POSITION BEFORE DOING THE NEXT STEPS.



Pinch Points: Keep hand clear of carriage assembly and Raise & Lower Cylinder. Hands or fingers caught between moving parts of the frame may be seriously injured.

 Unlock the red safety latch on the Raise & Lower cylinder by removing the lock pin. Remove the carriage lock.





• You can store the lock pin in the holes in bracket next to the red safety latch.



 Place the "Raise & Lower" valve into the "LOWER" position. The drill system will now lower into the horizontal position.

Activating this control will cause the drill system lower down to the horizontal position. Make sure everyone is clear of the drill unit before lowering the drill system



 Place the "Auto-Align" switch to the "DOWN" position.

 If the guide plates/guide wheels are not touching the surface of the concrete, place the Auto-Align switch to "UP" position and maneuver the drill until they do.





• Place the Feed Lever into the "IN" position. The drill will move forward until the bit contacts the concrete slab.



 Measure the distance from the head of the stop rod to the rubber stop pad. If this is not the required drill distance, loosen the stop rod nuts and move the stop rod the desired distance from the stop pad. Re-tighten the stop rod nuts.



CHECKING THE IN-LINE OILER

AWARNING DO NOT REMOVE CAP UNDER PRESSURE !

(to remove pressure from system, have air supply disconnected from drill unit, and open the Power lever to the "On" position)

• Using the wrench provided on the back of the control panel, remove the oiler cap from the oiler.

Oiler must be filled with proper rock drill Oil (see "Recommended Specifications for Rock Drill Lubricant")





RECOMMENDED SPECIFICATIONS FOR ROCK DRILL LUBRICANT

The use of synthetic oils is NOT RECOMMENDED due to possible damage to seals, "O" rings, hoses, blades, and polycarbonate oiler/filter bowls. Use only a non-detergent, Class 2, pneumatic lubricating oil (viscosity 100-200 S.S.U. @ 100° F and minimum aniline point of 200°F); which contains no synthetic additives; and which is compatible with Buna-N, Neoprene, Urethane, Silicone, and Hytrel components.

Consistency shall be such that the oil will adhere readily to metallic surfaces under extreme pressure conditions that exist in a rock drill.

Flash, Cleveland open cup	380°F Min. (a)
Carbon Residue	0-30% Max.
Viscosity at Atmospheric Temperature	
Below 20°F	SAE #10
20° to 40°F	SAE #20
40° to 80°F	SAE #30
80° to 110°F	SAE #40
Above 100°F	SAE #50
Mineral Activity	None
Free Fatty Acid (as Oleic %)	0.40% Max.
ASTM Steam Emulsion No	600 Max. (b)
Metallic Soaps	None
Pour Point F	+10 Max. (c)
Film Strength PSI	
Almen Test	12,000 (d)
Weeks Test	

(a) Where lower than normal viscosity oil is used at extreme low temperature, 350°F flash point permissible.

(b) 1200+ desired where moisture is a major factor. Operator must compensate for foaming when filling the lubricator.

(c) For below normal atmospheric temperature operation, lower pour test product may be required.

(d) Desired values, not minimum. Rock drill oils must have appreciably greater load carrying ability than straight mineral oils of like viscosity. High film strength is required by the heavy rotational loads present in drilling conditions. Additives which impart extreme pressure characteristics to the oil must be non-corrosive to the drill mechanism.

CHECKING THE IN-LINE OILER

- Fill the oiler to the top of the adjustment screw. The oiler should run approximately four hours before needing refilled.
- If you need to make an adjustment to the flow, use a screwdriver to turn the screw to a higher number for more flow, or to a lower number for less flow.
- Note: factory setting will be close to "4".
- Replace and tighten oiler cap.

