SETTING UP THE MODEL 210B-3, -4, -5 SRA

SAFETY PRECAUTIONS FOR THE MODEL 210B-3, -4, -5 SRA

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

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

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

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

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

SAFETY PRECAUTIONS FOR THE MODEL 210B-3, -4, -5 SRA (continued)

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

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

High Pressure: High air 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 bales on the drill unit. Ensure the carriage lock is in place.

ATTACHING THE AIR HOSE TO THE DRILL UNIT

- The Model 210B-3, -4, and -5 SRA all require a minimum 2” ID air hose. Do not use a hose that is smaller in diameter.

- Ensure all safety precautions are followed with the hose and all hose connections.

- IMPORTANT: THE AIR COMPRESSOR SHOULD BE SET BETWEEN 115 PSI AND 130 PSI (the air compressor should maintain at least 100 psi when all drills are running).

ATTACHING THE AIR HOSE TO THE DRILL UNIT

- Before attaching the air hose to the drill, turn the air compressor on and blow air through the hose to clean out any debris that may have accumulated inside the hose. This prevents contaminates from entering the drill system.

Secure the air hose before turning air on to prevent the hose from whipping.

ATTACHING THE AIR HOSE TO THE DRILL UNIT

The E-Z Drill unit has a 1 ½” female pipe thread on which the proper hose fitting will need to be installed.

- Connect the hose fittings and install safety pins.

ATTACHING THE AIR HOSE TO THE DRILL UNIT

- It is recommended that a “whip check” be installed as a safety measure.

SET UP FOR THE MODEL 210B-3, -4, -5 SRA

- Always keep the lever on the drill motor parallel with the drill motor, as shown to the right.

- If the lever is in the perpendicular position, as shown to the right, the air supply will be shut off from the drill motor and the drill motor will not run.

INSTALLING THE DRILL BITS

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 turn the power switches 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 a 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" UC bit will drill up to 18" deep; an 18" UC bit will drill up to 12" deep).

INSTALLING THE DRILL BITS

- 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 bits with 1” x 4 ¼” chucks, contact E-Z Drill.

INSTALLING THE DRILL BITS

- 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 wrenches provided; they are located next to the oil reservoir.

INSTALLING THE DRILL BITS

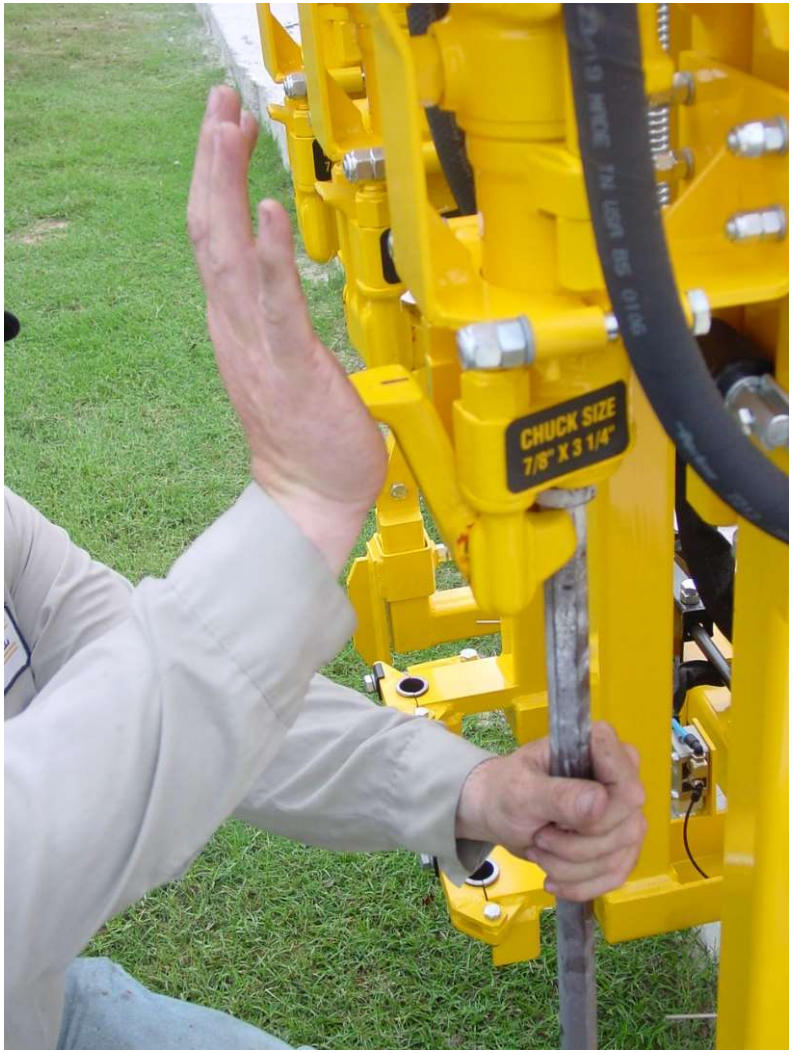
- Open the retainer latch on the drill motor.

PINCH POINT

INSTALLING THE DRILL BITS

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

PINCH POINT



INSTALLING THE DRILL BITS

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

INSTALLING THE DRILL BITS

- To adjust the stop rods, use the wrenches provided to loosen the stop rod nuts. Move the stop rod in the direction needed to the required location and retighten the nuts.

INSTALLING THE DRILL BITS

- If you are using 2-piece H-thread bits, you may also have to adjust the guide wheels.

INSTALLING THE DRILL BITS

- Place the proper bushing into the bit guide; one half in the upper bit guide and one half in the lower bit guide. Close the bit guide, swing the swivel bolt back onto the lower bit guide, and retighten.

- Repeat for each drill system.

ADJUSTING THE DRILL SPACING

- IMPORTANT: Regardless of the spacing, always keep the drill systems centered with the mainframe so that the entire unit remains balanced.

- NOTE: You can adjust the spacing with the drill systems in the horizontal or vertical position.

ADJUSTING THE DRILL SPACING

- To slide a drill system one way or the other to reach the required drill spacing, you must first loosen the 5” frame clamps on each end of the feed bar. Loosen all four ½” lock nuts on each frame clamp until you can slide the feed bar.

HEAVY LOAD

PINCH POINT

ADJUSTING THE DRILL SPACING

- To get the proper spacing, measure from one side of the feed bar to the same place on the adjacent feed bar.

ADJUSTING THE DRILL SPACING

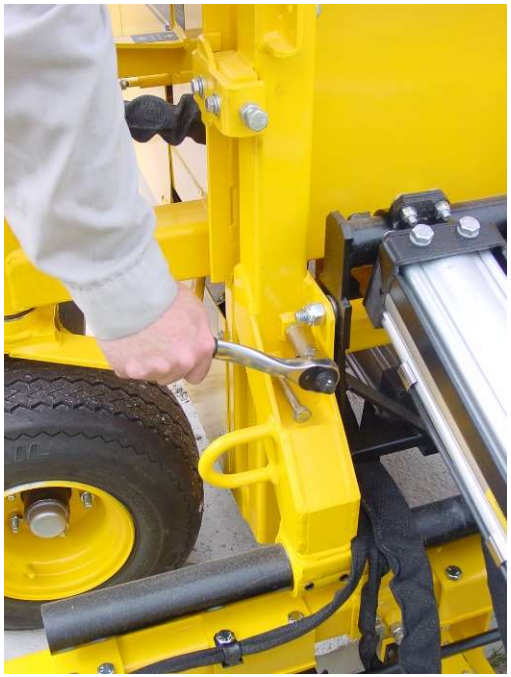
- Be sure to measure from both ends of the feed bar to ensure the drill systems are parallel to each other.

- After moving the proper distance, retighten all on the frame clamps.

HEAVY LOAD

ADJUSTING THE HEIGHT OF THE DRILL SYSTEMS

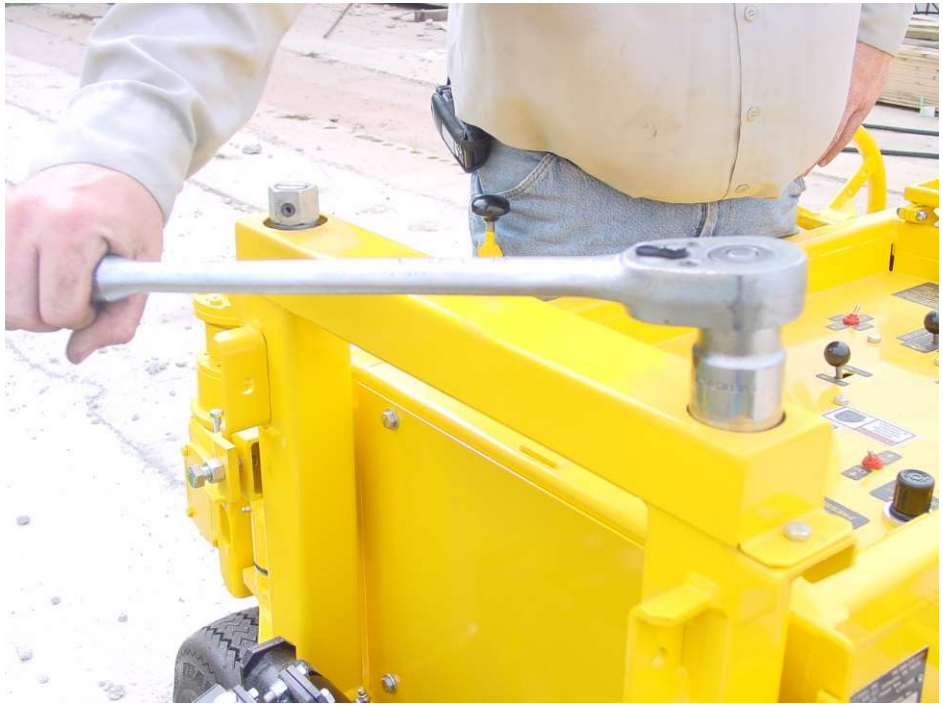
- Adjusting the height of the drill systems is done by turning the mast screw jack assembly located at the top of the mast. Before turning the screw jack, you must first loosen the two ½” x 4” bolts and the two ½” x 1 ½” bolts at the base of the mast.



ADJUSTING THE HEIGHT OF THE DRILL SYSTEMS

- Use a 1 3/8” wrench (preferably a socket wrench) to turn either of the nuts at the top of the mast (the two screw jacks are connected with a chain, so either nut can be used to make the adjustment). As soon as you have adjusted the mast to the required height, retighten the four bolts at the base of the mast.

- NOTE: It is easier to turn the screw jack when the drills are in the vertical position, but you will need to lower the drills into the horizontal position to check for proper height.



LEVELING THE DRILL SYSTEMS

IMPORTANT: BEFORE LEVELING THE DRILL SYSTEMS, CONFIRM THE ANGLE REQUIRED. MANY TIMES, THE DRILL SYSTEMS ARE NOT TO BE “LEVEL WITH THE WORLD” BUT SHOULD BE SET TO DRILL PARALLEL WITH THE TOP OF THE CONCRETE SLAB INTO WHICH YOU ARE DRILLING.

LEVELING THE DRILL SYSTEMS

- First loosen the two ½” bolts on the Auto Align Outside Slide.

LEVELING THE DRILL SYSTEMS

- Then turn the nut on the Auto Align Screw Jack Assembly until you reach the desired angle.
- Then retighten the two ½” bolts

LEVELING THE DRILL SYSTEMS

- Placing a 4’ level across the tool bars, then placing it on the concrete slab will show if the drills are going to drill parallel to the top of the concrete slab.

LEVELING THE DRILL SYSTEMS

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

SETTING THE DRILL DEPTH USING THE AUTOMATIC SHUT OFFS

- To adjust the automatic shutoff valves to the shut the drills off at the desired depth, ensure 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 (first refer to the Operating Instructions on driving and positioning the drill).

HEAVY LOAD: *Use handles to reposition the drill unit. The weight of the drill unit may cause back strain if improperly lifted.*

SETTING THE DRILL DEPTH USING THE AUTOMATIC SHUT OFFS

- Unlock the red safety latch on the Raise & Lower cylinders, and all the individual carriage locks.

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

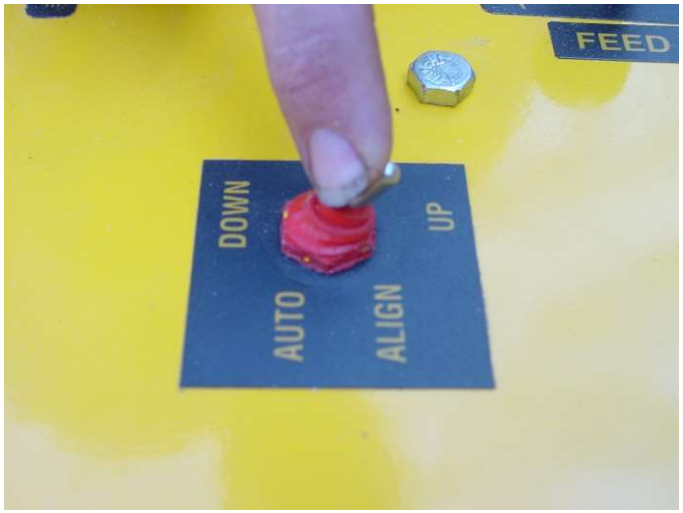
SETTING THE DRILL DEPTH USING THE AUTOMATIC SHUT OFFS

- Place the Raise & Lower lever into the “LOWER” position. The drill systems will now lower into the horizontal position.

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

SETTING THE DRILL DEPTH USING THE AUTOMATIC SHUT OFFS

- Place the “AUTO ALIGN” switch into the “DOWN” position.



- If the guide wheels are not touching the surface of the concrete, place the Auto Align switch into “UP” position and maneuver the drill until they do.

SETTING THE DRILL DEPTH USING THE AUTOMATIC SHUT OFFS

- Place the Feed Lever into the “In” position. All the drills will move forward until the bits contact the concrete slab.

SETTING THE DRILL DEPTH USING THE AUTOMATIC SHUT OFFS

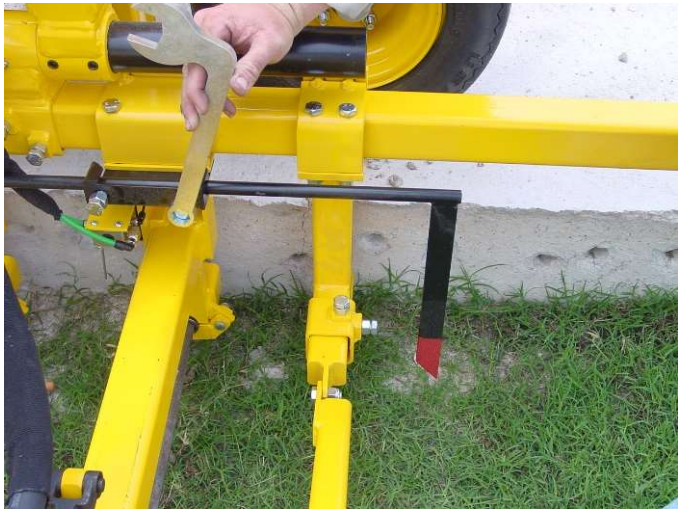
- Measure the distance from the head of the stop rod to the rubber stop pad. If this is not the required drill distance, use the wrenches provided to loosen the stop rod nuts.

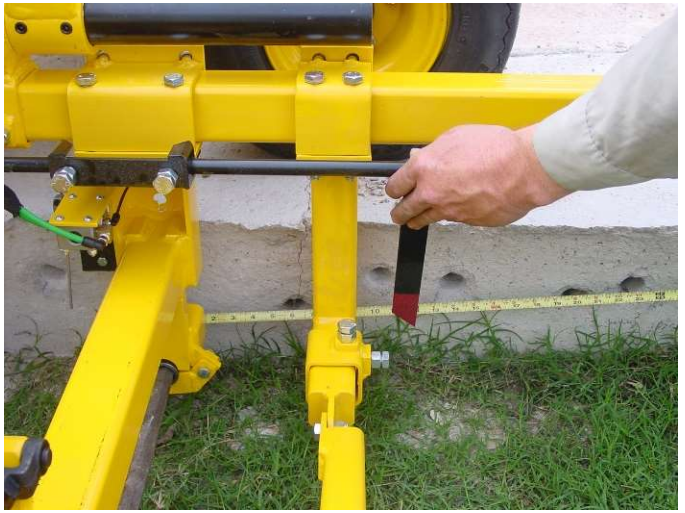
SETTING THE DRILL DEPTH USING THE AUTOMATIC SHUT OFFS

- After loosening the stop rod nuts, move the stop closer or farther away from the stop pad to get it the correct distance. Then retighten the nuts.
- Repeat for each drill system.
- After you drill a set of holes, measure the depth of the actual holes drilled to confirm the proper drill depth. You may have to make another small adjustment.

ADJUSTING THE HOLE SPACING GUIDE

- Loosen the bolts on the hole spacing guide bracket and slide the hole spacing guide to where the distance from the red point to the center of the bit is the required spacing distance.





INSTALLING THE TOW BAR PACKAGE

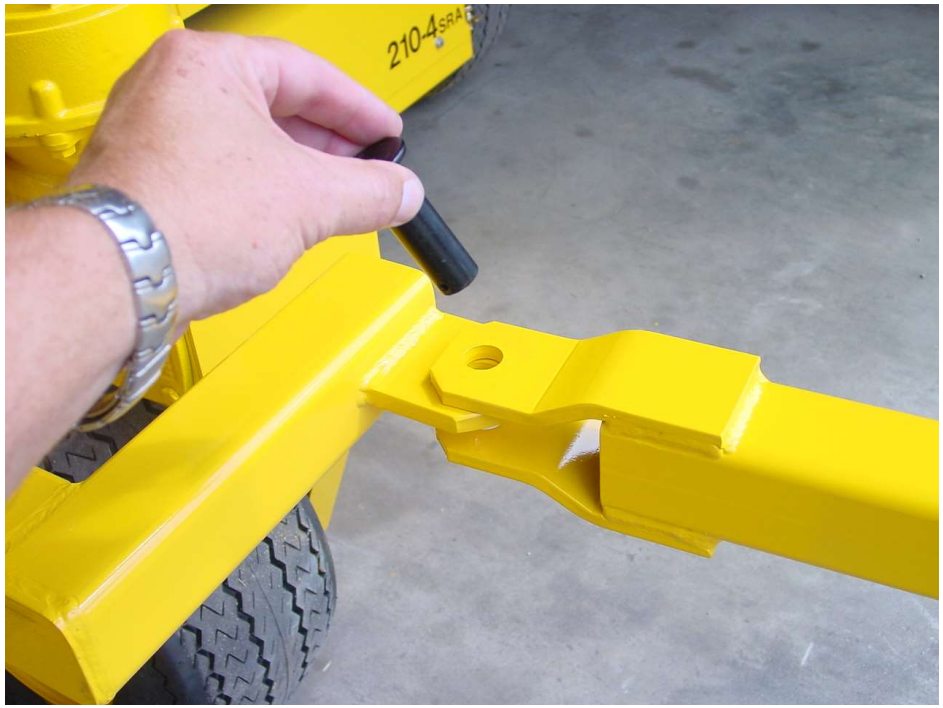
- Attach the Hitch Support to the main frame by clamping it with the Frame Clamp onto the 3” square tube wheel frame support on the side at which you wish to tow the air compressor.

INSTALLING THE TOW BAR PACKAGE

- Depending on which kind of hitch is on your air compressor, bolt on the Compressor Mount and wheel assembly onto the air compressor hitch.

INSTALLING THE TOW BAR PACKAGE

- Using the Hitch Pin Long, pin the Hitch to the Compressor Mount.

INSTALLING THE TOW BAR PACKAGE

- Pin the Hitch with the Hitch Pin Short into the hole of the Hitch Support.