

iQ Power Tools Repair Manual iQ360XR

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iQ360XR DISASSEMBLY

Filter Removal



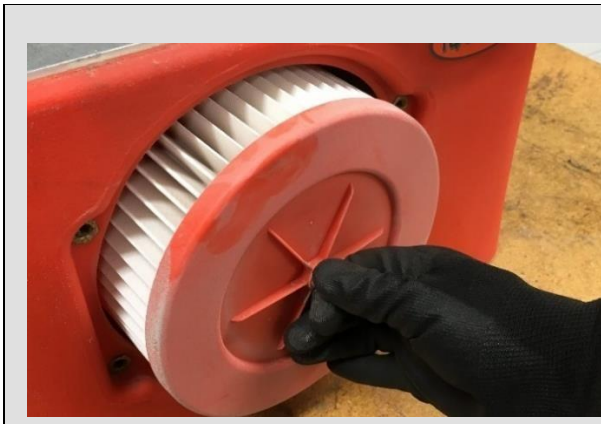
1. Remove filter cover retaining screws



2. Remove filter knob



3. Remove filter cover



4. Remove filter

Blade Removal



1. Raise saw arm to ease removal of saw blade



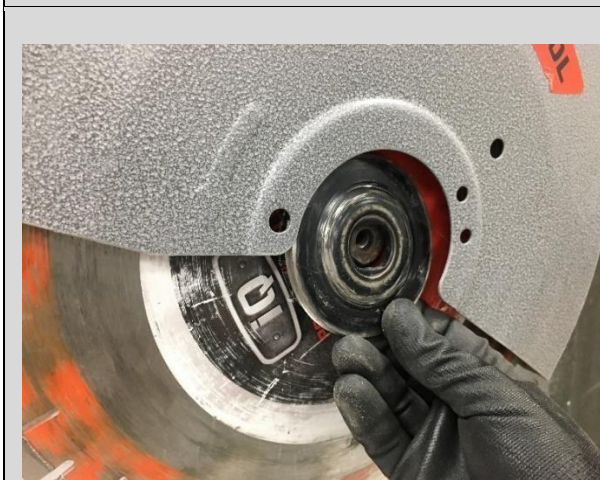
2. Depress blade lock



3. Loosen blade lock nut



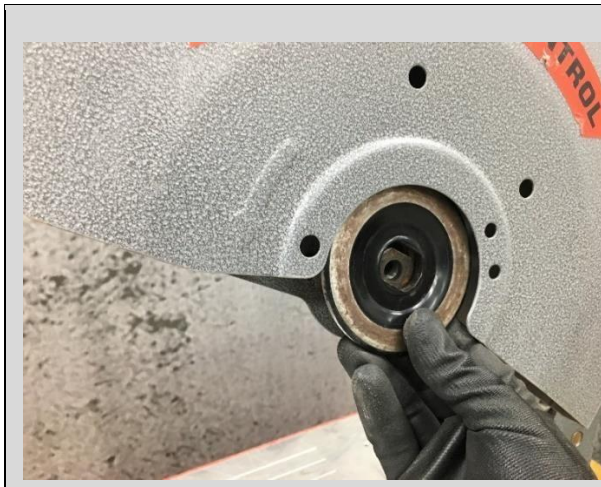
4. Remove blade lock nut and washer



5. Remove outer blade flange



6. Remove blade



7. Remove inner blade flange

Blade Guard Removal



1. loosen blade guard cover retaining screws



2. remove blade guard cover retaining screws



3. remove blade cover

Blade Shaft Assembly Removal



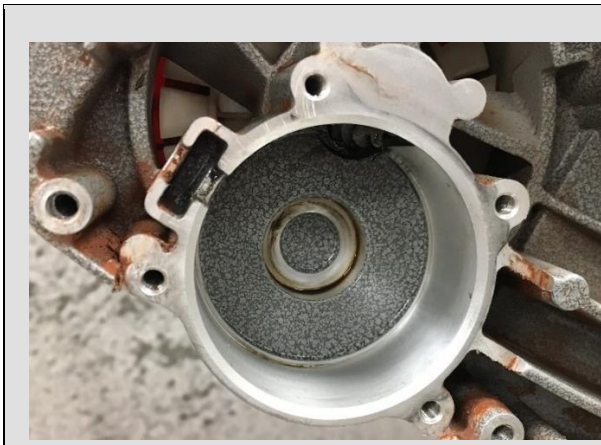
1. remove blade arbor retaining screws



2. Remove the arbor gearbox, be aware of the blade locking device



3. Remove blade locking device



4. Clean and inspect the arbor gear box housing

Control Module Disassembly



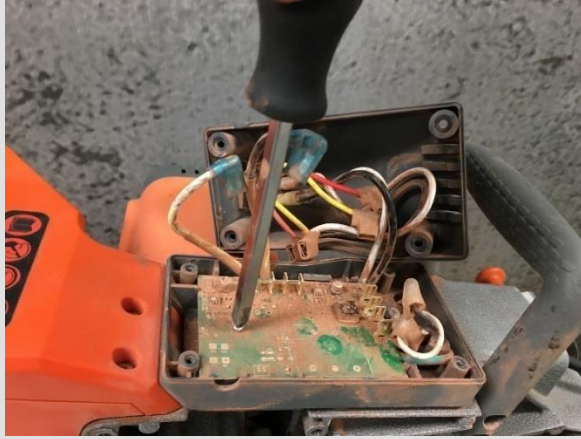
1. Remove the control module cover retaining screws



2. Lift top cover



3. Disconnect all wire connections from the circuit board



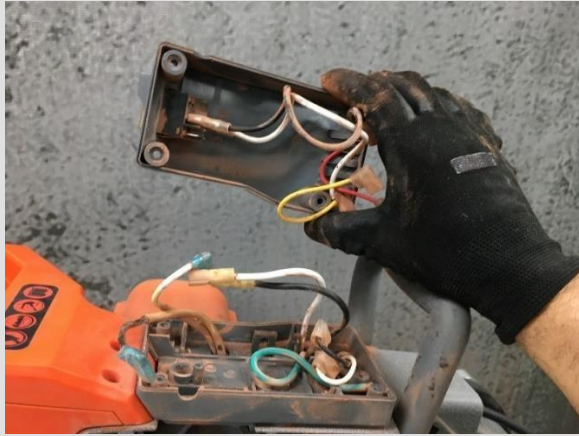
4. Remove the circuit board retaining screw



5. Lift and remove the circuit board



6. Disconnect the Main Power connection from the On/Off switch



7. Separate and remove the control module top cover



8. Remove the control module retaining screws



9. Remove the Main Power Ground wire



10. Route the saw and vacuum motor wire conductors through the control module base



11. Route the Main Power wire conductors through the control module base



12. Remove the control module base

Saw Motor Removal



1. Remove the saw motor brush covers



2. Remove the saw motor brushes



3. Remove the saw motor case retaining screws from the saw arm



4. Pull the saw motor cover with the stator directly out. Beware of the armature. The armature may remain attached to the saw support arm

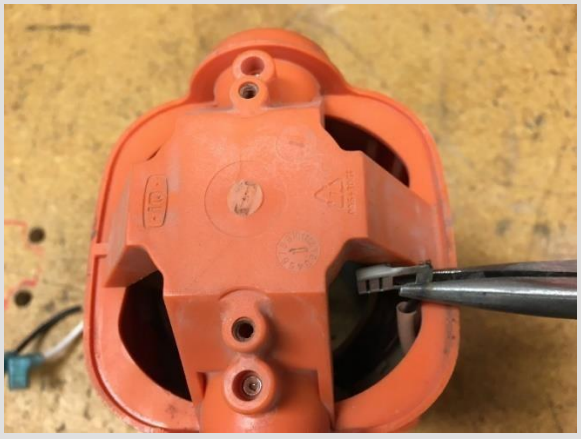
Saw Motor Stator Disassembly



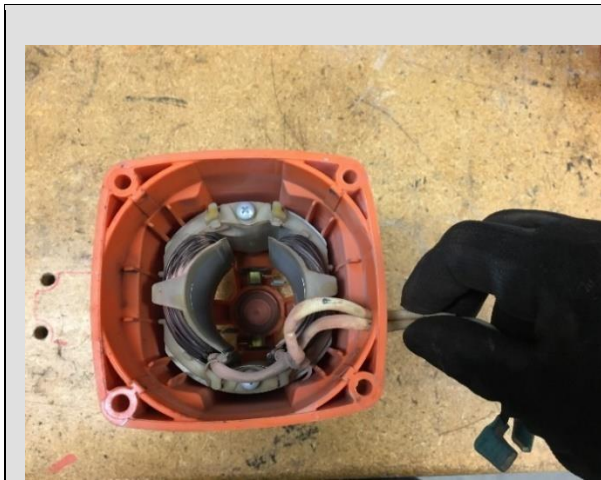
1. Remove the saw motor end cover retaining screws



2. Remove the saw motor end cover



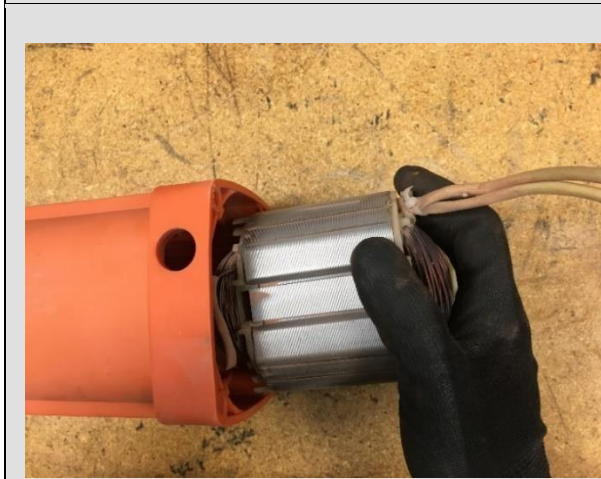
3. Disconnect the stator brush connectors from the brush connectors



4. Route the stator conductors through the saw motor stator case



5. Remove the stator retaining screws

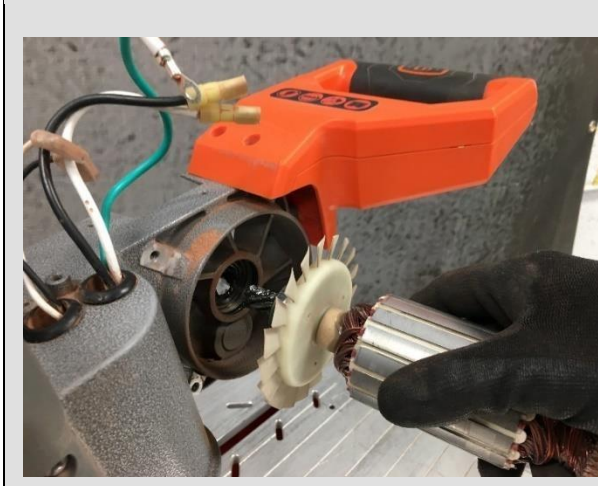


6. Remove the stator from the saw motor case



7. Check the saw motor case to ensure the armature bearing bushing has been removed

Saw Motor Armature Removal



1. Firmly pull the armature from the support arm

Support Arm Disassembly and Removal



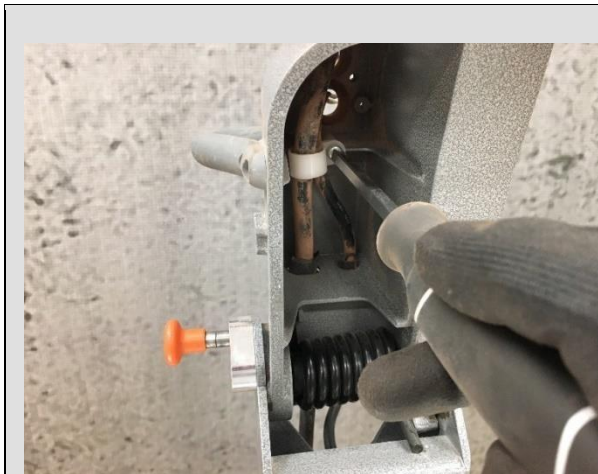
1. Remove the support arm stop from the arm pedestal



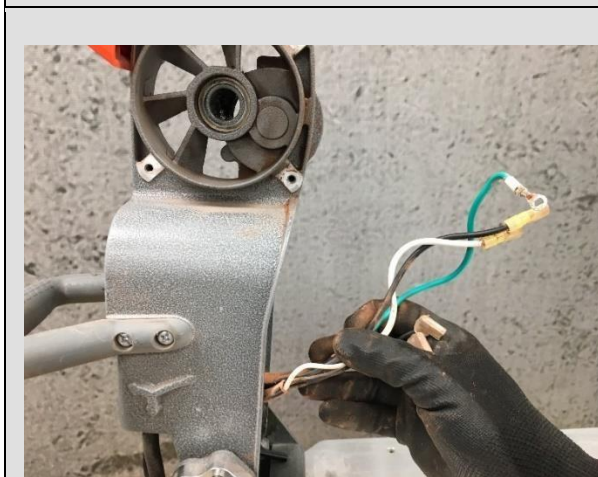
2. Unlock the support arm



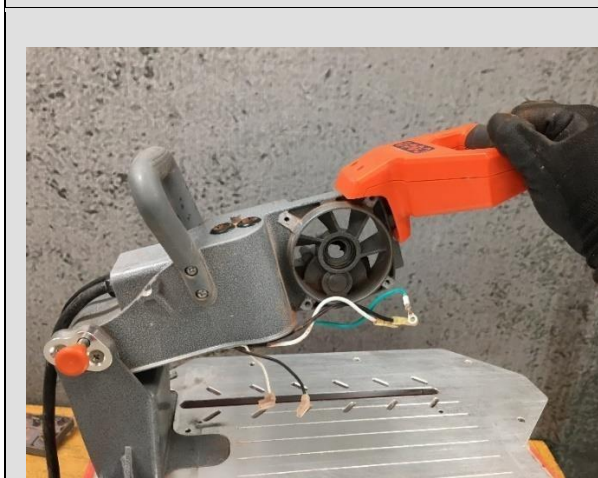
3. Raise the support arm fully



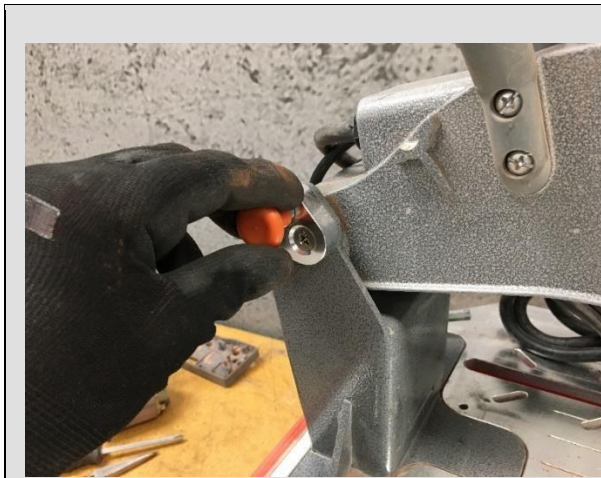
4. Loosen and remove the cord clamps



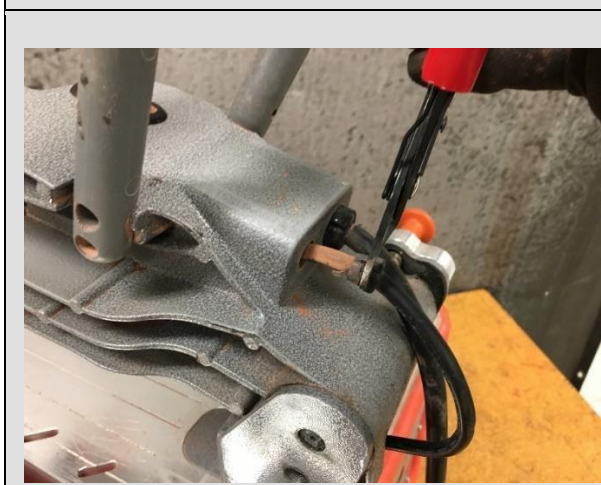
5. Pull the main power and vacuum cords through the support arm holes



6. Lower the support arm



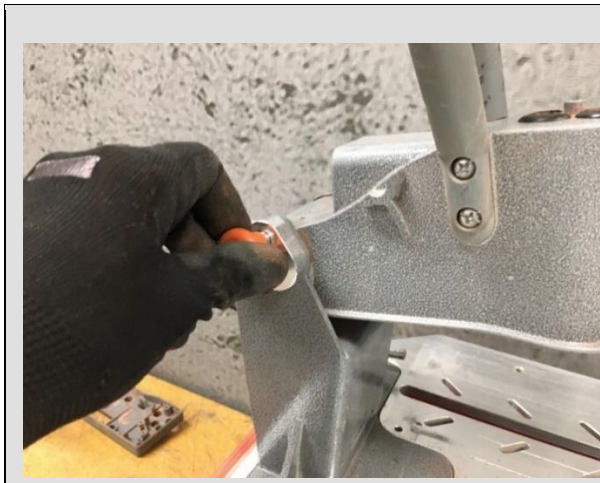
7. Lock the support arm



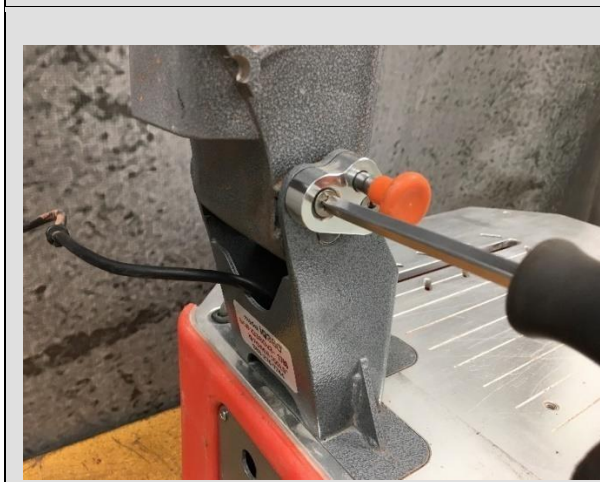
8. With a pair of strain relief pliers, remove the vacuum cord strain relief with the vacuum cord



9. with a pair of strain relief pliers, remove the main power cord strain relief with the main power cord



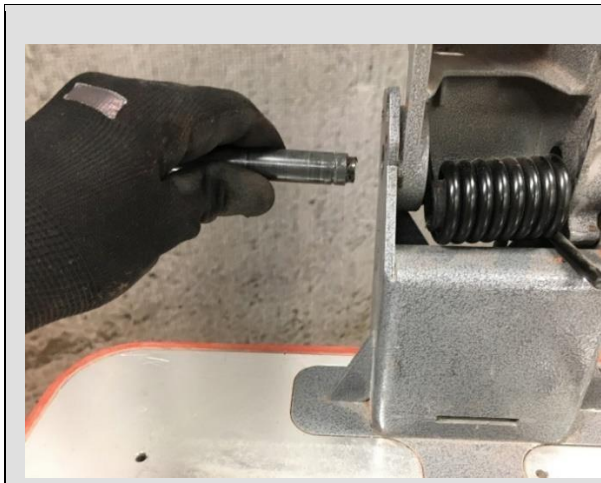
10. unlock and raise the support arm fully



11. remove the support arm locking device retaining screws and remove the locking device



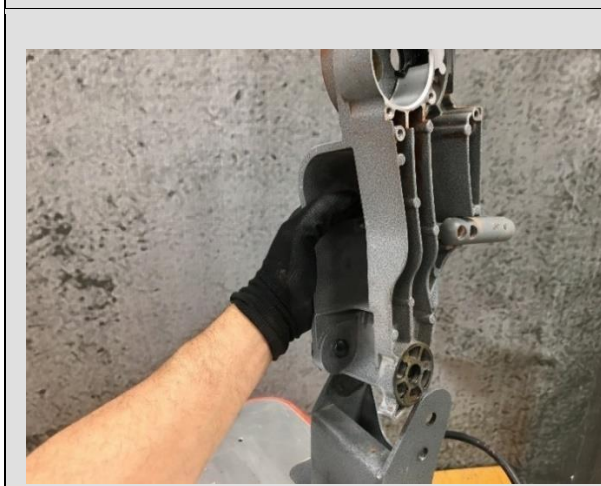
12. gently tap the support arm pivot shaft out. Tap towards the direction of the locking device



13. Remove the pivot shaft



14. Remove the pivot shaft spring and bushing



15. Separate the support arm from the pivot shaft

Pivot Shaft Disassembly and Removal



1. Remove the back panel retaining screws



2. Pull the back panel away from the saw main body to expose the band clamp securing the vacuum output hose



3. Loosen the band clamp



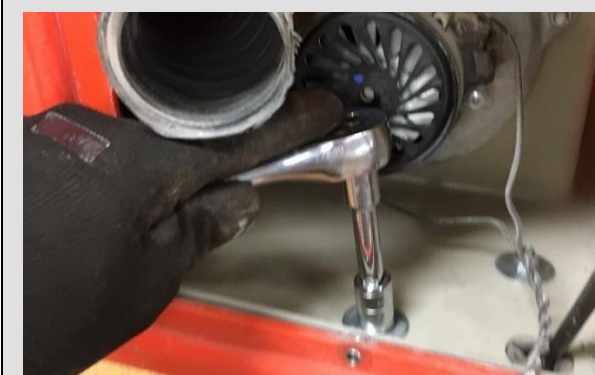
4. Remove the back panel



5. Disconnect the vacuum power cord



6. Remove the nut securing the pivot arm to the saw body from the blade chamber



7. Remove the both nuts securing the pivot arm to the saw body in the vacuum chamber



8. Lift and remove the pivot arm

Vacuum Motor Disassembly and Removal



1. Loosen and remove the nuts securing the vacuum to the saw body



2. Remove the vacuum from the saw body



3. Remove and collect all the securing hardware



4. Verify you have 3 sets with:
 - 1 each bolt
 - 1 each rubber bushing
 - 2 each flat washer
 - 1 each plastic spacer
 - 1 each nylock nut

Vacuum Brushes Removal



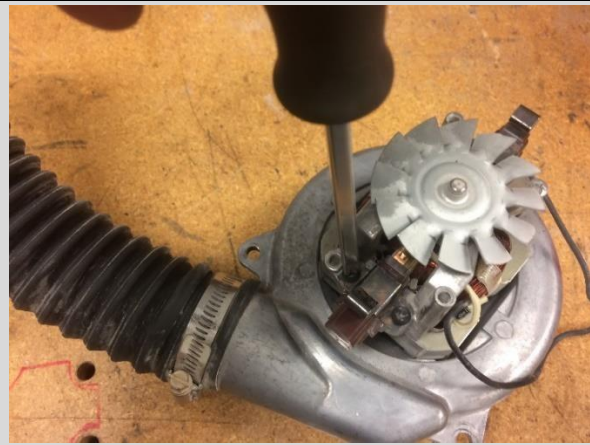
1. Depress the vacuum plastic cover tabs



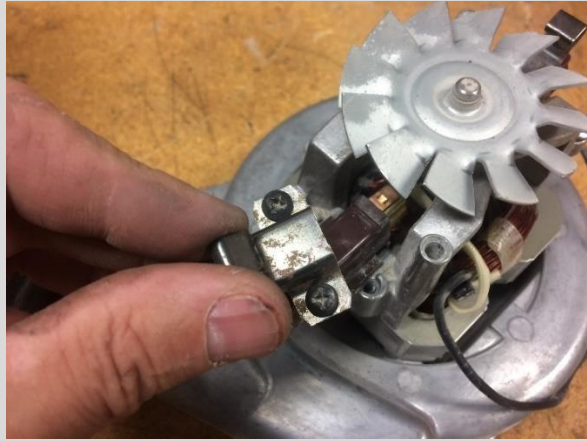
2. Lift the plastic cover from the vacuum



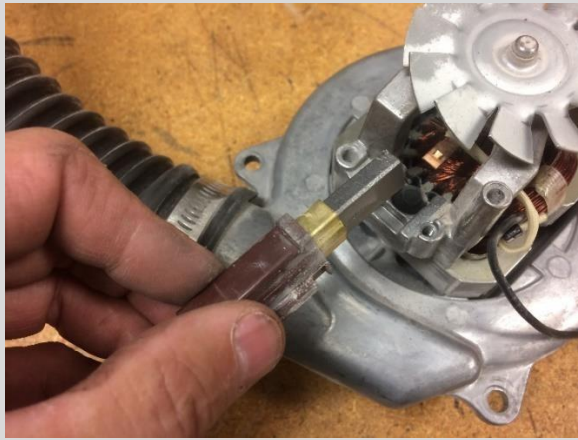
1. With a flat head screw driver, push the brush connector away from the brush housing, towards the center of the vacuum motor



2. Remove the brush housing retaining screws



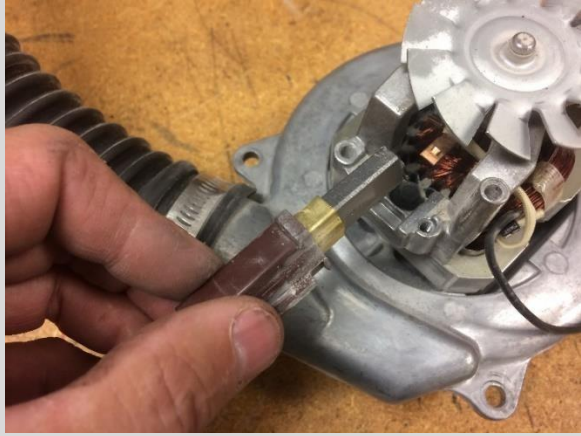
3. Lift and remove the brush housing retainers



4. Remove the vacuum motor brush

IQ360XR ASSEMBLY

Vacuum Brushes Installation



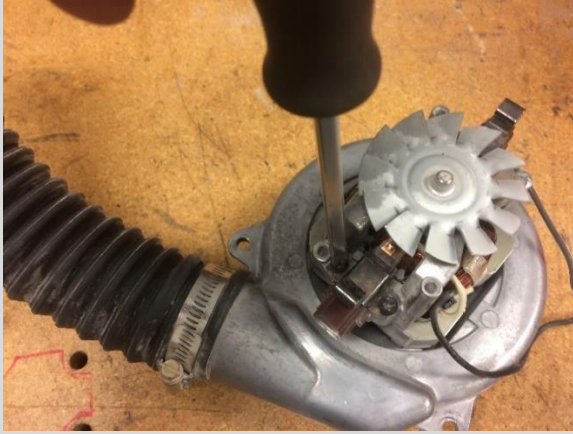
1. Install new vacuum brushes



2. Slide brush connector on to the brush socket



3. Place brush retainer over the brush



4. Tighten brush retainer screws



1. Check brush connection by pushing into the socket with a flat head screw driver



2. Place plastic cover over the vacuum motor

Vacuum Motor Installation



1. Slide the vacuum retaining bolts through the saw body



1. Slide the rubber bushing over the bolt



2. Next, slide a flat washer over the bolt



3. Next, slide the plastic spacer over the bolt



4. Slide the second flat washer over the bolt

Ensure to repeat steps 1 - 5 for all 3 vacuum bolts.



5. Install the vacuum in the vacuum housing area



6. Secure the vacuum with the nylock nut



7. Install the vacuum flex hose and tighten the band clamp

Pivot Arm Assembly and Installation



1. Slide the vacuum power cord thru the pivot stand



2. With a pair of strain relief pliers, pull the strain relief through the opening provided and ensure it engages



3. Route the vacuum power cord thru the vacuum table



4. Slide the pivot stand on to the saw table



5. Secure the pivot stand on to the saw table with flat washer and nylock nut on the vacuum chamber side



6. Loosely tighten the nylock nut to allow for final adjustment later



7. Secure the pivot stand on to the saw table with flat washer and nylock nut on the vacuum filter side

Saw Mount and Gear Housing Assembly



1. Slide the gear housing on to the saw mount



2. Start the saw mount shaft by sliding into the saw mount



3. Allow the gear housing to couple with the saw mount but allow space to insert the torsion spring and bushing



4. Slide the bushing into the torsion spring



5. Insert the torsion spring and bushing into the gear housing cavity. It should sit easily in the space provided without tension



6. While holding the torsion spring and bushing in place, tap the saw mount shaft thru the saw stand and gear housing spring bushing and on thru the other side



7. Tap the gear housing shaft until it is thru



8. Verify the saw mount shaft is flush on both sides of the saw stand



9. Apply RED Loctite on the gear housing shaft retainer plate locking screws



10. Install the gear housing shaft retainer plate lock screws on to the saw stand



11. Lower the gear housing arm



12. Lock the gear housing shaft retainer in the down position



13. Route the saw motor power cord thru the rear of the gear housing



14. With a pair of strain relief pliers, insert the strain relief with the vacuum power cord into the rear of the gear housing



15. Route the saw motor power cord thru the rear of the gear housing



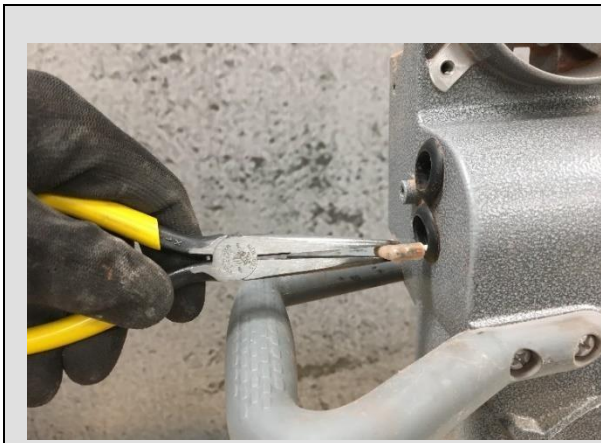
16. With a pair of strain relief pliers, install the strain relief on the saw power cord and secure on to the rear of the gear housing



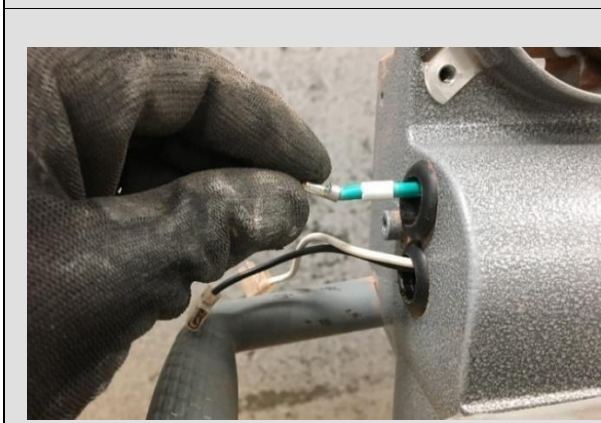
17. Unlock the gear housing lock pin



18. Raise gear housing fully



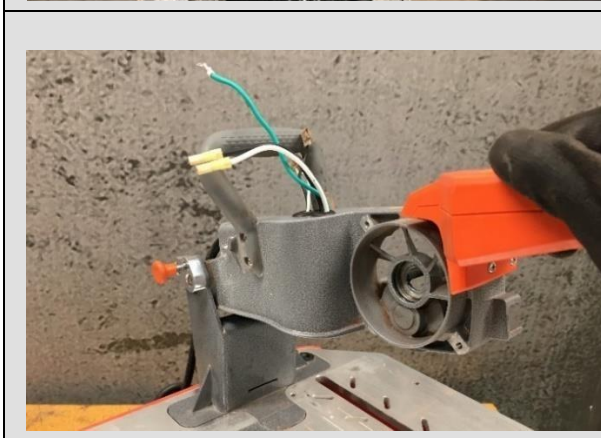
19. Route vacuum power cord thru the top of the gear housing



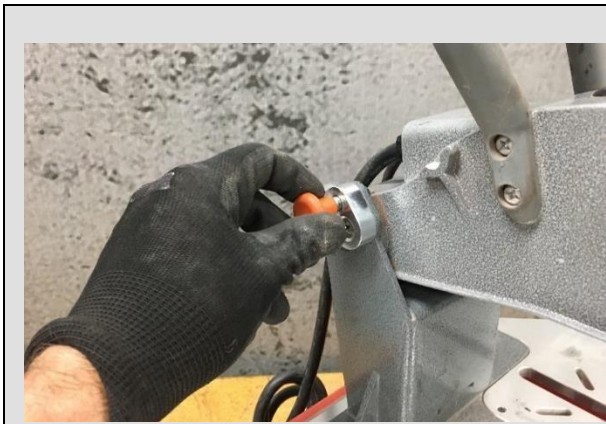
20. Route the saw power cord thru the top of the gear housing



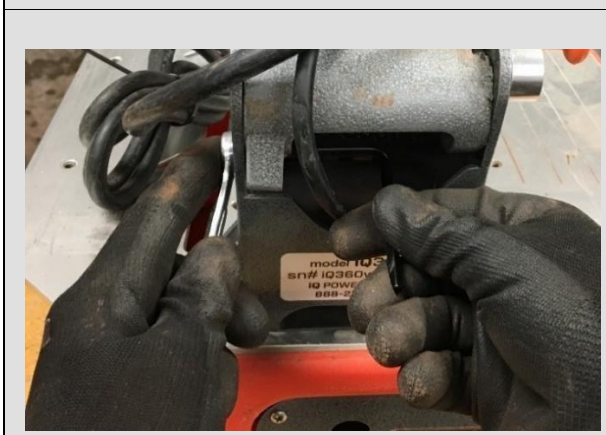
21. Secure both the saw and vacuum power cord with a plastic clamp on the underside of the gear housing



22. Lower the gear housing



23. Lock the gear housing by engaging the lock pin knob

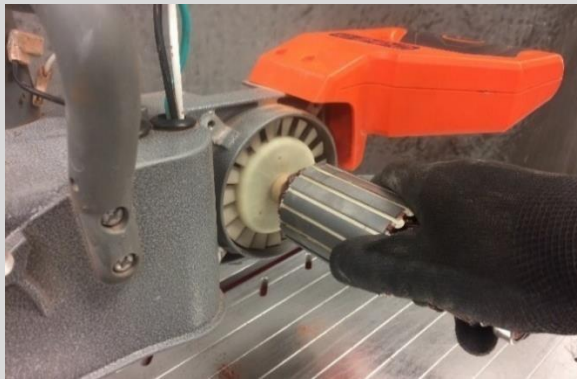


24. Install the gear housing stop

Saw Armature Installation



1. Lubricate the armature gear housing O-ring and install



2. Firmly insert the armature into the gear housing



3. Install the armature rear bearing bushing

Saw Stator Assembly and Installation







1. Insert the stator into the plastic motor case. The winding conductors should line up with the hole provide on the plastic case

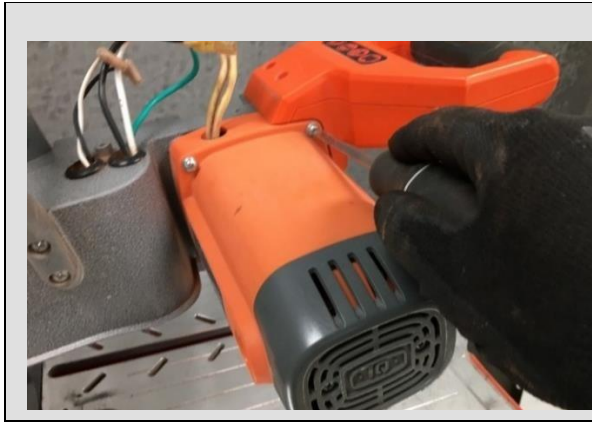


2. Secure the stator with the retaining screws



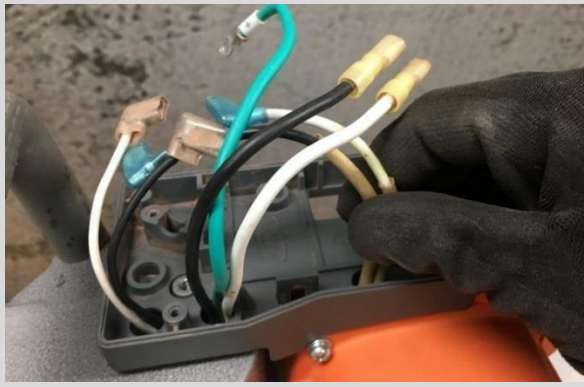
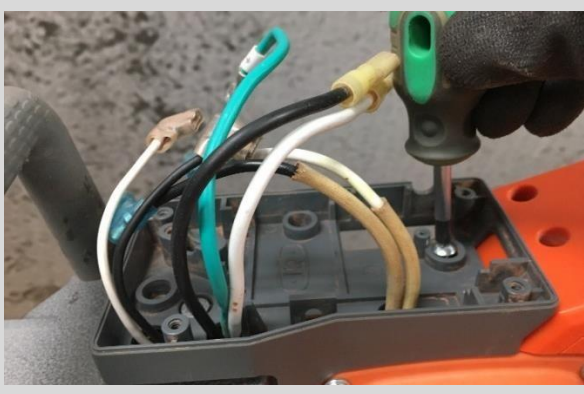
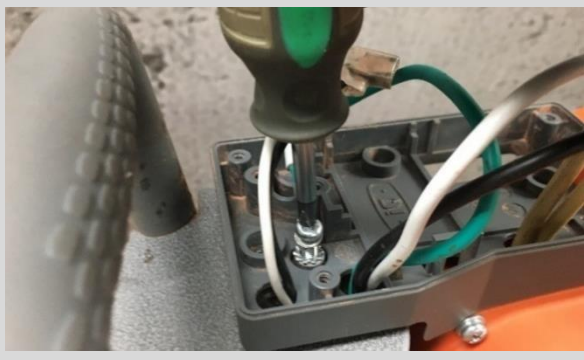

3. Route the stator wires through the opening provided

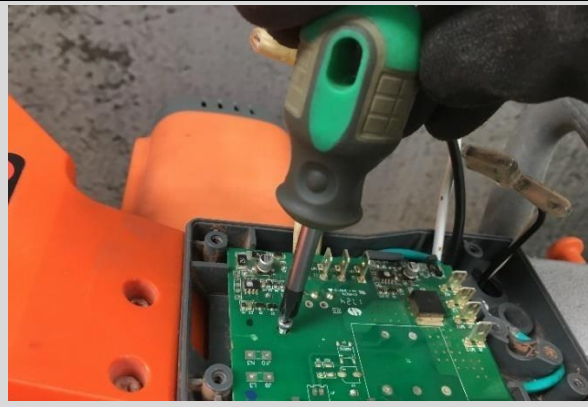
	<p>4. Attach the brush conductors located on the rear end of the motor case</p>
	<p>5. Install the motor case end cap</p>
	<p>1. Secure the motor end cap with retaining screws</p>
	<p>2. Slide the stator and plastic motor case over the armature</p>



3. Secure the motor case and stator with retaining screws

Control Module Assembly and Installation

 A close-up photograph showing a person's gloved hand routing several colored wires (white, black, teal, yellow) through a grey plastic control module base. The wires are being fed into the base from the side.	<ol style="list-style-type: none">1. Route the saw motor, main power cord, and vacuum power cord thru the control module base
 A close-up photograph showing a person's gloved hand using a green-handled screwdriver to tighten a retaining screw into the control module base. The wires are visible inside the base.	<ol style="list-style-type: none">2. Secure the control module base on to the support arm with retaining screws
 A close-up photograph showing a person's gloved hand using a green-handled screwdriver to tighten a retaining screw into the control module base. The main power cord ground wire is being secured to the support arm.	<ol style="list-style-type: none">3. Secure the main power cord ground wire on to the support arm with retaining screw
 A close-up photograph showing a person's gloved hands installing a green printed circuit board (PCB) into the control module base. The PCB is being held in place by the gloved hands.	<ol style="list-style-type: none">1. Install the printed circuit board



2. Secure the printed circuit board with retaining screw



3. Make all the proper connections on the printed circuit board and On/Off switch using the correct wiring diagram as a guide



4. Secure the control module cover on to the control module base with retaining screws

Arbor Installation



1. Ensure the arbor gear housing is clean



2. Assemble the arbor stop button, spring and bushings and partially slide into position



3. Maneuver the arbor gear so the arbor stop and arbor gear slides into the support arm housing



4. Check the arbor stop by rotating the arbor output shaft and depressing the arbor stop push button



5. Secure the arbor gear onto the support arm housing with retaining screws



6. Tighten the arbor gear retaining screws

Blade Guard Installation



1. Align and slide the blade guard over the arbor



2. Secure the blade guard onto the support arm with retaining screws

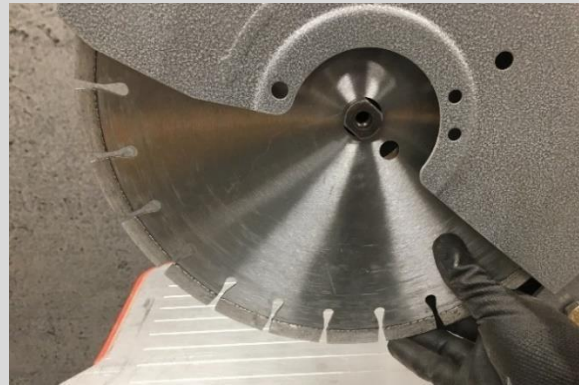
Blade Installation



1. Slide the inner flange onto the arbor shaft



2. Check the blade for rotation direction



3. Install the blade, ensure the blade rotation arrow is correct



4. Install the outer blade flange

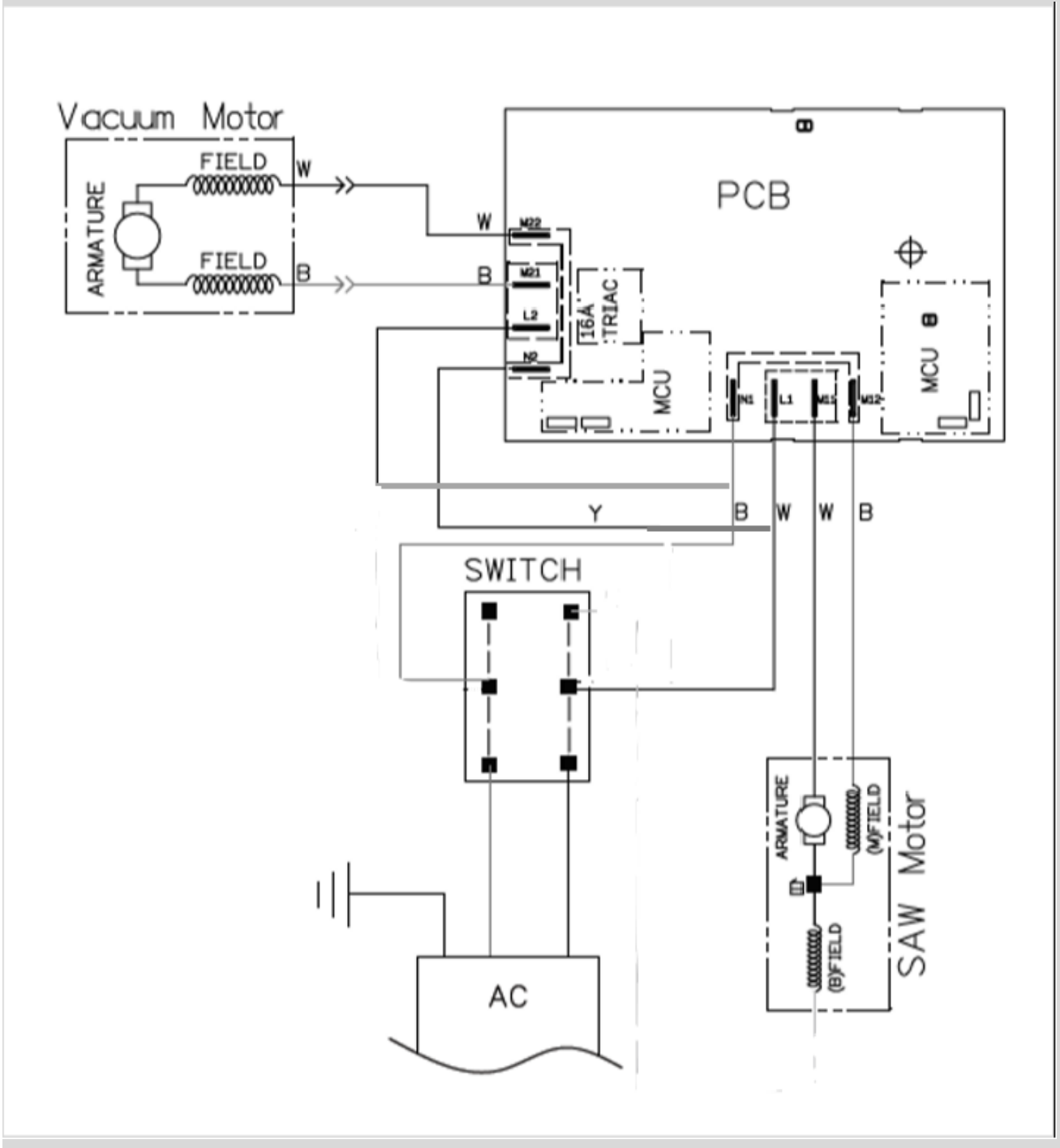


5. Insert the outer retaining washer and lock nut







6. Tighten lock nut





Wiring Diagram 360XR


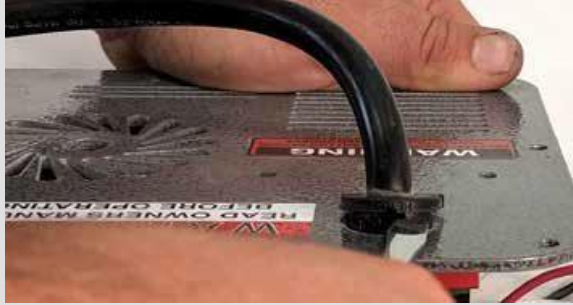

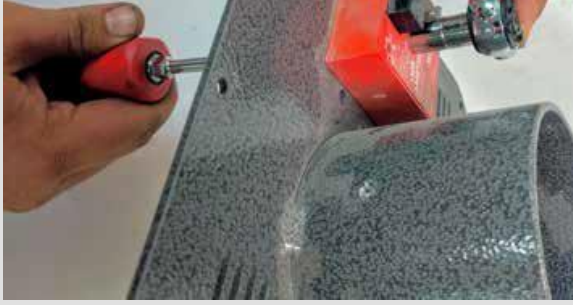


IQ360X TO IQ360XR CONVERSION GUIDE

iQ360X Removal

	<p>1. Remove the blade</p>
	<p>2. Remove the backplate retaining screws</p>
	<p>3. Loosen the vacuum exhaust hose clamp</p>
	<p>4. Remove the backplate</p>

	<p>5. Disconnect the wires from the relay</p>
	<p>6. Unplug both power and vacuum quick disconnects</p>
	<p>7. Disconnect the ground (Green) wire from the vacuum</p>
	<p>8. Disconnect the ground (Green) from the case</p>

	<p>9. Disconnect the ground (Green) wire from the backplate</p>
	<p>10. Remove the power cord strain relief from the backplate</p>
	<p>11. Route all conductors thru the back plate</p>
	<p>12. Remove the relay</p>



NOTE: This is what the backplate should look like once all items have been removed



1. Remove the strain relief from located at the base of the stand



2. Remove the divot lock



3. Remove the gear housing stop and raise the gear housing to the fully open position



4. Tap the gear housing shaft half way out



5. Remove the tension spring and bushing











6. Pull the gear housing shaft all the way out



7. Remove the iQ360X gear housing

iQ360XR Installation

	<p>1. Slide the iQ360XR Gear housing onto the stand and insert the gear housing pivot shaft</p>
	<p>2. Install the tension spring and bushing and tap the gear housing pivot shaft thru</p>
	<p>3. Rotate the gear housing to the down and cutting position and insert the gear housing stop</p>
	<p>4. Tighten the gear housing stop</p>





	<p>5. Route the Vacuum power cord into the vacuum chamber</p>
	<p>6. Connect the vacuum power cord to the vacuum</p>
	<p>7. Insert the rubber plug into the opening previously used for the power cord on the backplate</p>
	<p>8. Attach the vacuum exhaust on to the backplate and tighten the hose clamp</p>
	<p>9. Install the backplate on to the tub.</p>







10. Install the blade

IQ360 TO IQ360XR CONVERSION GUIDE

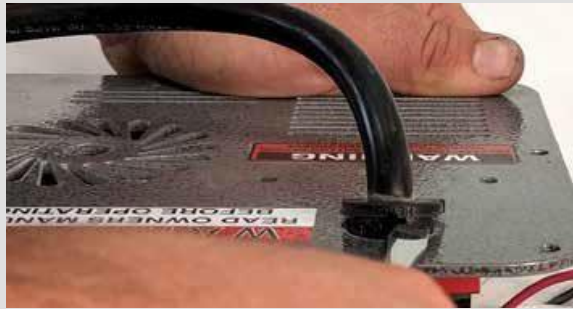
iQ360 Removal

	<p>1. Remove the blade</p>
	<p>2. Remove the backplate retaining screws</p>
	<p>3. Loosen the vacuum exhaust hose clamp</p>
	<p>4. Remove the backplate</p>

	<p>1. Disconnect the ground (Green) wire from the vacuum</p>
	<p>8. Disconnect the ground (Green) from the case</p>
	<p>9. Disconnect the wires from the relay</p>
	<p>10. Unplug both power and vacuum quick disconnects</p>



11. Disconnect the ground (Green) wire from the backplate



12. Remove the power cord strain relief from the backplate



NOTE: This is what the backplate should look like once all items have been removed.

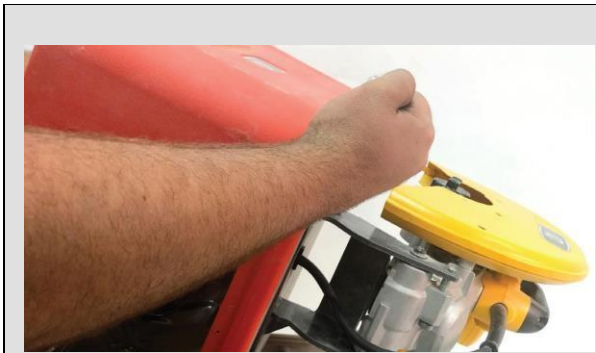
OPTIONAL: Drill out the rivets to remove the relay and current sensor



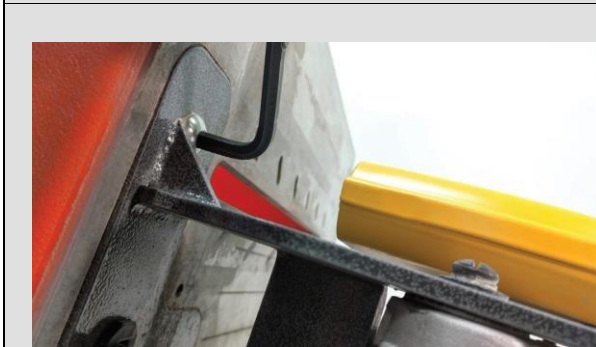
13. Remove saw mount center nut



14. Remove saw mount side nut



15. Turn the saw on its side




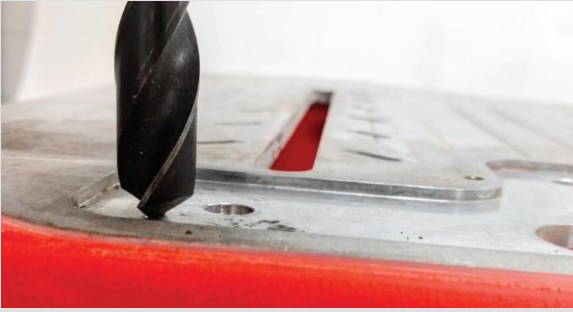


16. Remove the final saw mount bolt



17. Remove the saw mount and 360 saw motor

iQ360XR Allen Wrench Holder Installation (OPTIONAL)

	<p>1. Place 360XR saw mount in table mount</p>
	<p>2. Drill a 1/2 inch hole on the blade side rear of the saw mount</p> <p>NOTE: Just penetrate the table top to create a starter hole</p>
	<p>3. Remove the saw mount</p>
	<p>4. Using a step drill bit, drill a 5/8 inch hole at the same location the 1/2 inch hole was started</p>



5. The finished hole should look like this



6. Place the rubber grommet into the ½ inch hole on the saw mount

iQ360XR Installation



1. Install the saw mount the table and secure the 3 bolts with nylock nuts








2. Slide the iQ360XR Gear housing onto the stand and insert the gear housing pivot shaft



3. Install the tension spring and bushing and tap the gear housing pivot shaft thru



4. Rotate the gear housing to the down and cutting position and insert the gear housing stop

	<p>5. Tighten the gear housing stop</p>
	<p>6. Install blade lock</p>
	<p>7. Route the Vacuum power cord into the vacuum chamber</p>
	<p>8. Connect the vacuum power cord to the vacuum</p>
	<p>9. Insert the rubber plug into the opening previously used for the power cord on the backplate</p>



10. Attach the vacuum exhaust on to the backplate and tighten the hose clamp



11. Install the backplate on to the tub.



12. Install the blade