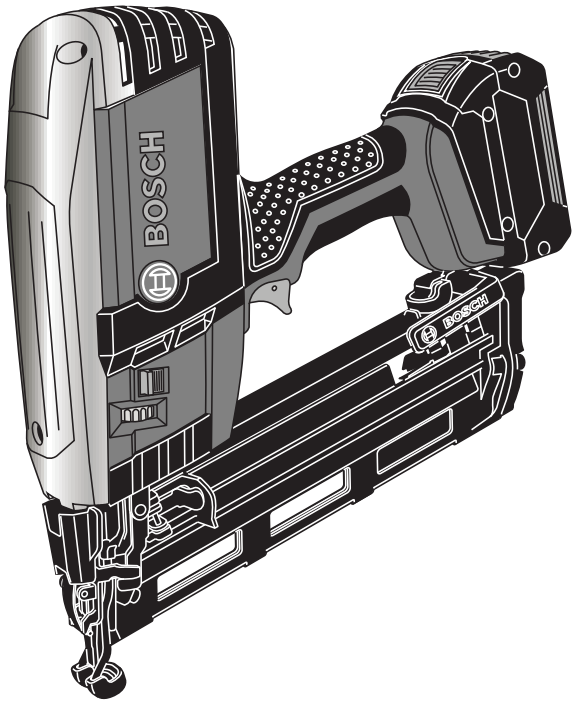
IMPORTANT:
Read Before Using

IMPORTANT :
Lire avant usage

IMPORTANTE:
Leer antes de usar

Operating/Safety Instructions
Consignes de fonctionnement/sécurité
Instrucciones de funcionamiento y seguridad

FNH180K-16
FNH180-16B



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For English Version See page 2

Version française Voir page 29

Versión en español Ver la página 56

General Power Tool Safety Warnings

⚠ WARNING **Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

Keep work area clean and well lit. Cluttered or dark areas invite accidents.

Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical safety

Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

If operating the power tool in damp locations is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply. Use of an GFCI reduce the risk of electric shock.

Personal safety

Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and / or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

Power tool use and care

Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Battery tool use and care

Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

Under abusive conditions, liquid may be ejected from the battery, avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Safety Rules for Cordless Nailer Tools

Always assume that the tool contains fasteners. Careless handling of the nailer can result in unexpected firing of fasteners and personal injury.

Do not point the tool towards yourself or anyone nearby. Unexpected triggering will discharge the fastener causing an injury.

Do not actuate the tool unless the tool is placed firmly against the workpiece. If the tool is not in contact with the workpiece, the fastener may be deflected away from your target.

Disconnect the tool from the power source when the fastener jams in the tool. While removing a jammed fastener, the nailer may be accidentally activated if it is plugged in.

Use caution while removing a jammed fastener. The mechanism may be under compression and the fastener may be forcefully discharged while attempting to free a jammed condition.

Do not use this nailer for fastening electrical cables. It is not designed for electric cable installation and may damage the insulation of electric cables thereby causing electric shock or fire hazards.

Remove finger from the trigger when not driving nails. Always carry the tool by the handle only. Removing your finger from the trigger when not operating the tool reduces the risk of unintentionally firing a nail and injuring yourself or someone else.

Do not disable or remove the work contact element. This tool is equipped with a safety mechanism, the work contact element, to reduce the risk of accidental firing. Disabling this component can result in unintentional firing.

Do not use the tool unless the work contact element is working properly. If the work contacting element is not functioning correctly, the tool can fire unexpectedly.

Always load nails into the tool's magazine before the battery pack is connected. Connecting the battery pack after loading nails reduces the risk of unintentionally driving a nail and injuring yourself or someone else.

When loading nails ensure that nails are parallel with nose of tool. If nails are not parallel with nose the tool will misfire and nails can be deflected, cause the tool to react in an unexpected manner, and damage the tool.

When loading the tool's magazine, check that the nail follower slides smoothly by pulling with finger. If not smooth, nails can be driven at irregular angle.

Use only the nails meeting the criteria listed in the "Specification" section of this manual. Nails not identified for use with this tool can cause the tool to malfunction and result in the risk of injury and/or tool damage.

Do not connect the battery pack when the trigger or work contact element is depressed. Keep the tool pointed downward, away from yourself and bystanders when connecting the battery pack to reduce the risk of accidental nail firing.

Keep hands and feet away from work contact element of the tool during use. Never place your hands or feet closer than 8 inches (200 mm) to the work contact element of the tool. Nails can be deflected by the work piece or driven away from the point of entry.

Use sufficient grip to maintain control of the tool while allowing tool to recoil away from work surface as nail is driven. Do not attempt to prevent the recoil by holding the tool with excessive force against the work piece. The tool will recoil as the nail is driven. This is normal function for the tool.

Never drive nails near flammable materials. Some types of nails can spark out of the nose during driving operation.

Know what is behind your work piece. Do not fire nails into walls or floors without assuring the area on the opposite side is clear. A nail could travel through the work piece, striking someone.

Do not drive a nail on top of another nail. This could cause the nail to be deflected or the tool to react in an unexpected manner.

Do not attempt to drive nails at a steep angle. This could cause the nail to be deflected or the tool to react in an unexpected manner.

Use care when nailing thin material or when working near the edges and corners of the work piece. Nails may drive through or away from the work piece and injure yourself or someone else. Be aware that the nail may follow the grain of the wood causing it to protrude unexpectedly from the side of the work material. Drive the nails perpendicular to the grain.

Do not drive nails into walls, floors or other work areas without knowing what may be damaged by the driven nails. Nails driven into live electrical wires, plumbing, gas piping, or other types of obstructions can result in electrocution, explosion, personal injury and/or property damage.

Keep face and body parts away from back of the tool when working in restricted areas. Sudden recoil can result in impact to the body especially when nailing into hard or dense material.

Always disconnect tool from battery pack and remove nails from magazine before leaving the area or passing tool to another operator. This avoids the risk of unintentional operation.

Do not disconnect battery pack from the tool with finger on trigger or the work contact element depressed. The tool can fire when reconnected to the battery pack.

Additional Safety Warnings

GFCI and personal protection devices like electrician's rubber gloves and footwear will further enhance your personal safety.

Do not use AC only rated tools with a DC power supply. While the tool may appear to work, the electrical components of the AC rated tool are likely to fail and create a hazard to the operator.

Keep handles dry, clean and free from oil and grease. Slippery hands cannot safely control the power tool.

Develop a periodic maintenance schedule for your tool. When cleaning a tool be careful not to disassemble any portion of the tool since internal wires may be misplaced or pinched or safety guard return springs may be improperly mounted. Certain cleaning agents such as gasoline, carbon tetrachloride, ammonia, etc. may damage plastic parts.

Ensure the switch is in the off position before inserting battery pack. Inserting the battery pack into power tools that have the switch on invites accidents.

⚠ WARNING Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Battery/Charger

Before using battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery pack, and (3) product using battery.

Use only the charger which accompanied your product or direct replacement as listed in the catalog or this manual. Do not substitute any other charger. Use only Bosch approved chargers with your product. See Functional Description and Specifications.

Do not disassemble charger or operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way. Replace damaged cord or plugs immediately. Incorrect reassembly or damage may result in electric shock or fire.

Do not recharge battery in damp or wet environment. Do not expose charger to rain or snow. If battery case is cracked or otherwise damaged, do not insert into charger. Battery short or fire may result.

Charge only Bosch approved rechargeable batteries. See Functional Description and Specifications. Other types of batteries may burst causing personal injury and damage.

Charge battery pack in temperatures above +32 degrees F (0 degrees C) and below +113 degrees F (45 degrees C). Store tool and battery pack in locations where temperatures will not exceed 120 degrees F (49 degrees C). This is important to prevent serious damage to the battery cells.

Battery leakage may occur under extreme usage or temperature conditions. Avoid contact with skin and eyes. The battery liquid is caustic and could cause chemical burns to tissues. If liquid comes in contact with skin, wash quickly with soap and water. If the liquid contacts your eyes, flush them with water for a minimum of 10 minutes and seek medical attention.

Place charger on flat non-flammable surfaces and away from flammable materials when re-charging battery pack. The charger and battery pack heat during charging. Carpeting and other heat insulating surfaces block proper air circulation which may cause overheating of the charger and battery pack. If smoke or melting of the case are observed unplug the charger immediately and do not use the battery pack or charger.

Use of an attachment not recommended or sold by Bosch will result in a risk of fire, electric shock or injury to persons.

Battery Care

⚠ WARNING When batteries are not in tool or charger, keep them away from metal objects. For example, to protect terminals from shorting **DO NOT** place batteries in a tool box or pocket with nails, screws, keys, etc. Fire or injury may result.

DO NOT PUT BATTERIES INTO FIRE OR EXPOSE TO HIGH HEAT. They may explode.

Battery Disposal

⚠ WARNING Do not attempt to disassemble the battery or remove any component projecting from the battery terminals. Fire or injury may result. Prior to disposal, protect exposed terminals with heavy insulating tape to prevent shorting.

LITHIUM-ION BATTERIES

If equipped with a lithium-ion battery, the battery must be collected, recycled or disposed of in an environmentally sound manner.

"The EPA certified RBRC Battery Recycling Seal on the lithium-ion (Li-ion) battery indicates Robert Bosch Tool Corporation is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alterative to placing used Li-ion batteries into the trash or the municipal waste stream, which may be illegal in your area.

Please call 1-800-8-BATTERY for information on Li-ion battery recycling and disposal bans/restrictions in your area, or return your batteries to a Skil/Bosch/Dremel Service Center for recycling. Robert Bosch Tool Corporation's involvement in this program is part of our commitment to preserving our environment and conserving our natural resources."

Symbols

IMPORTANT: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

Symbol	Name	Designation/Explanation
V	Volts	Voltage (potential)
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
kg	Kilograms	Weight
min	Minutes	Time
s	Seconds	Time
⌀	Diameter	Size of drill bits, grinding wheels, etc.
n_0	No load speed	Rotational speed, at no load
n	Rated speed	Manufacturers rated speed
.../min	Revolutions or reciprocation per minute	Revolutions, strokes, surface speed, orbits etc. per minute
0	Off position	Zero speed, zero torque...
1, 2, 3, ... I, II, III,	Selector settings	Speed, torque or position settings. Higher number means greater speed
0	Infinitely variable selector with off	Speed is increasing from 0 setting
➡	Arrow	Action in the direction of arrow
∿	Alternating current	Type or a characteristic of current
⎓	Direct current	Type or a characteristic of current
≂	Alternating or direct current	Type or a characteristic of current
⧈	Class II construction	Designates Double Insulated Construction tools.
⏚	Earthing terminal	Grounding terminal
⚠	Warning symbol	Alerts user to warning messages
	Li-ion RBRC seal	Designates Li-ion battery recycling program
	Ni-Cad RBRC seal	Designates Ni-Cad battery recycling program
	Read manual symbol	Alerts user to read manual
	Wear eye protection symbol	Alerts user to wear eye protection

Symbols (continued)

IMPORTANT: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

This symbol designates that this tool is listed by Underwriters Laboratories.

This symbol designates that this tool is listed by Underwriters Laboratories, to United States and Canadian Standards.

This symbol designates that this tool is listed by the Canadian Standards Association.

This symbol designates that this tool is listed by the Canadian Standards Association, to United States and Canadian Standards.

This symbol designates that this tool is listed by the Intertek Testing Services, to United States and Canadian Standards.

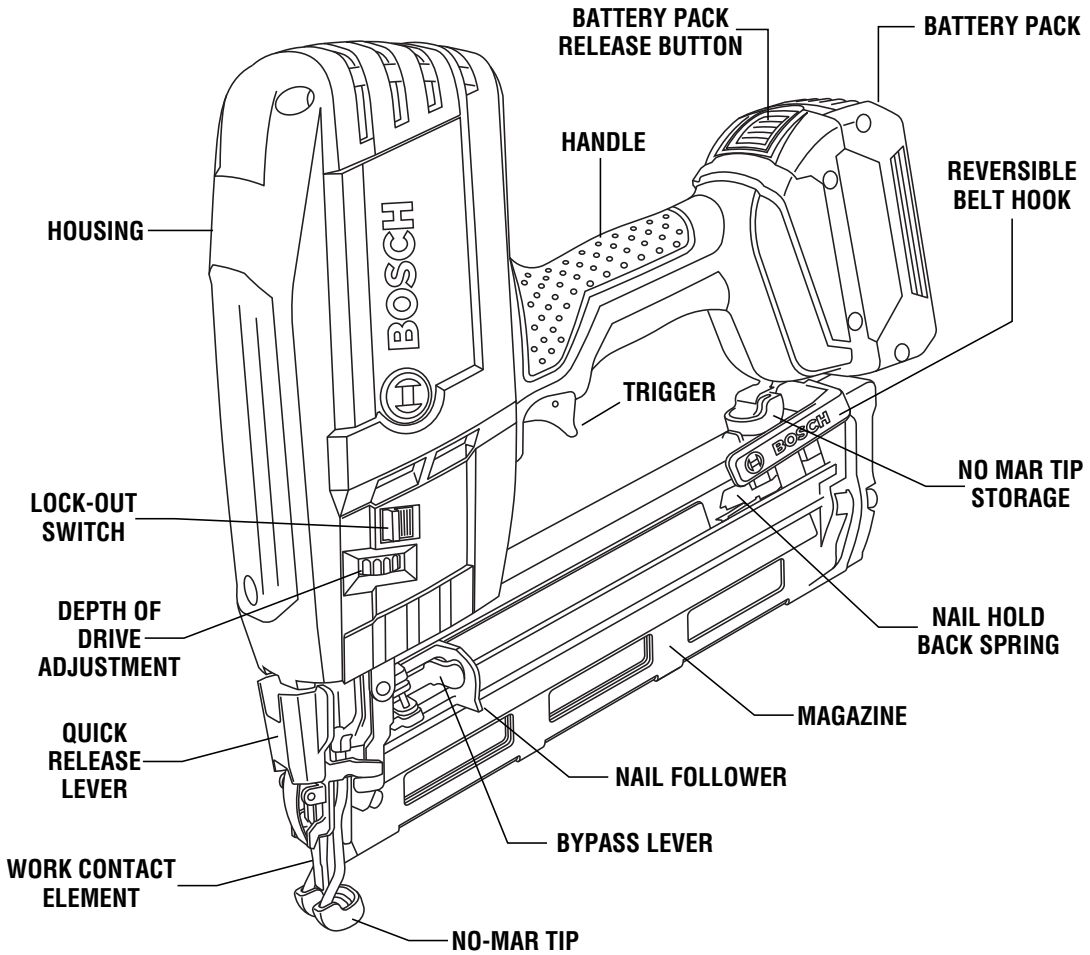
This symbol designates that this tool complies to NOM Mexican Standards.

Functional Description and Specifications

⚠ WARNING **Disconnect battery pack from tool before making any assembly, adjustments or changing accessories**. Such preventive safety measures reduce the risk of starting the tool accidentally.

Cordless Nailer Tool

FIG. 1



Model number	FNH180-16
Voltage rating	18 V⎓
Battery pack	BAT609 & BAT618
Charger	BC630 & BC660
Voltage rating	120 V ∿ 60 Hz
Specifications	
Product Size:	
Height	11.6 in.
Width	3.7 in.
Weight:	7.7 lbs.

Maximum Capacities

* Nails: Diameter 16 gauge (20° Angle)
Length (Range): 1-1/4 in. to 2-1/2 in.
Nail Loading & Change Out: Back
Magazine Capacity: 105 Nails

Additional Features

Blank Fire Lock-Out
Lock-Out Switch
Reversible Belt Hook

*** Use Only** 16 Gauge 20° Angled Finish Nails. Available in Paslode® and DeWalt® brands. Bostich 15 Gauge FN Type Nails or other 15 Gauge Nails **should not be used** with this tool.

Assembly

Follow the instructions below to prepare your tool for operation.

1. All tool operators and their immediate supervisors must become familiar with the operator safety instructions before operating the tool. The instructions begin on page 2 of this manual.
2. Included with each tool is a copy of these Operating/Safety Instructions. Keep this publication for future reference.

Operating Instructions

ACTUATION SYSTEM

Your tool is equipped with two devices that require actuation before the tool will fire, the work contact element and the finger trigger. There is one mode that determines how the tool fires nails.

"Sequential" Firing Mode: In "sequential" firing mode, there is a predetermined sequence required to fire a nail. The work contact element must first be depressed against the work piece. A nail will then fire when the trigger is depressed. To fire another fastener, the work contact element must be removed from the work piece, and the trigger must be released. The sequence can then be repeated.

LOCK-OUT SWITCH

Your tool is also equipped with a lock-out switch (Fig.1). This switch is designed to lock the work contact element in order to help prevent accidental starts.

To lock tool, move the lock-out switch completely UP so that the lock symbol is visible.

To unlock tool, move the lock-outswitch completely DOWN so that the unlock symbol is visible.

LUBRICATION

⚠ WARNING **No lubrication required.** Do not use lubricants as they may damage the tool.

NAIL LOADING

⚠ WARNING **Always load nails into the tool's magazine before the battery pack is connected.** Connecting the battery pack after loading nails reduces the risk of unintentionally driving a nail and injuring yourself or someone else.

⚠ WARNING **When loading the tool's magazine, check that the nail follower slides smoothly by pulling with finger.** If not smooth, nails can be driven at irregular angle.

1. Insert appropriate collated nail strips into loading slot in back of magazine, see figure 2. See tool specifications to determine appropriate nail sizes and angles.
2. Orient a strip of approved nails with the tips pointed down, the nails should be inserted with the tips first into the slot, see figure 2, and to align the head of the nail with the top "T" portion of the slot. Insert nails fully into magazine making sure that the last nail in the strip slides past the Nail Hold Back Spring, see figure 3.

FIG. 2

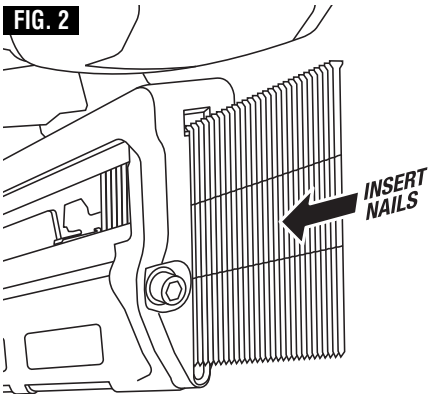
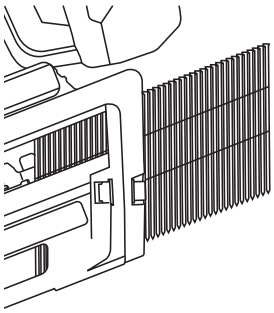
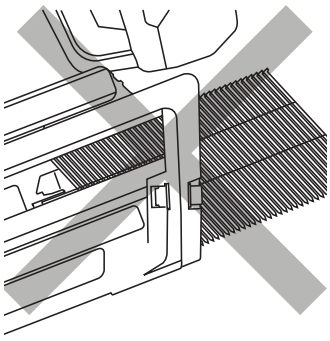


FIG. 3

RIGHT



WRONG



Note: The tool features a **"blank fire"** lockout that will prevent the tool from firing when there are zero nails left in the magazine. The tool will not allow the work contact element to be depressed when there are no nails in the tool.

⚠ WARNING **Use only the nails meeting the criteria listed in the "Specification" section of this manual.** Nails not identified for use with this tool can cause the tool to malfunction and result in the risk of injury and/or tool damage.

3. This tool uses a spring loaded bypass lever in order to load and unload the nails. Once the nails are properly inserted, pull the follower completely to the back of the magazine, pressing against the bypass lever of the follower, see figure 4.
4. Once the follower hits the back of the magazine, allow the follower to slide forward and engage the nails, pushing them to the nose of the tool, see figure 5.

⚠ WARNING **Watch for pinch points with the follower. Never place any part of your body in a pinch point area.** When loading nails consider where your hand is located. If it is within a pinch point, strongly consider an alternative position. Injuries occur when hands or fingers are between moving parts.

FIG. 4

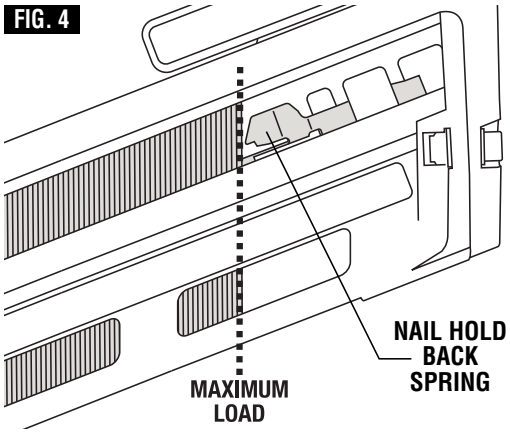
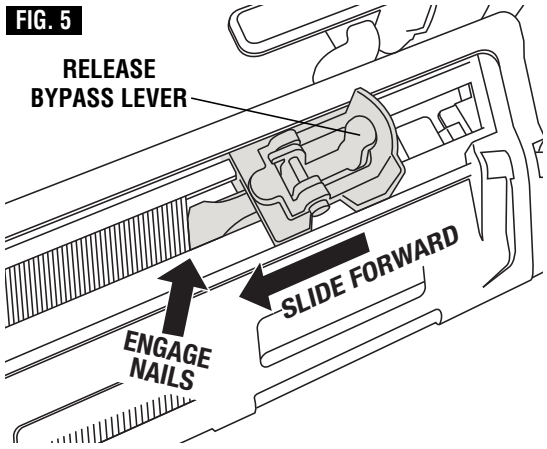


FIG. 5



FIRING MODES

"Sequential" Firing Mode: To use the tool to drive nails in this actuation mode, the work contact element and trigger must be used in a specific order:

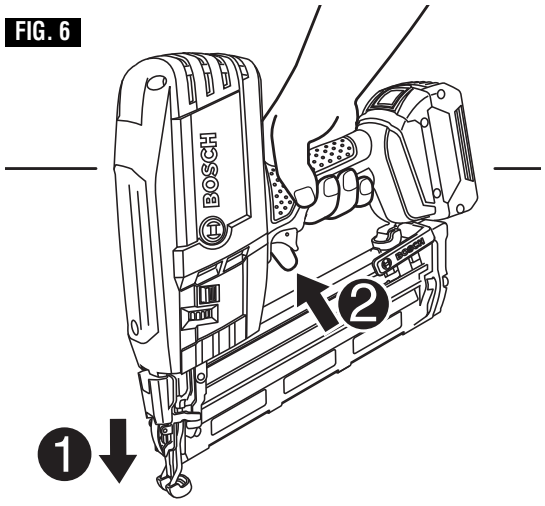
1. The work contact element must be completely depressed by placing the nose of the tool against the work piece, see figure 6.
2. The trigger must be pulled firmly and then released, see figure 6.
3. The tool must be allowed to recoil away from the work piece.
4. Ensure that WCE and the trigger are fully released before firing next nail.

To continue operation in a separate location, move the tool along the work piece, repeating steps 2 through 4 as required.

⚠ WARNING **Remove finger from the trigger when not driving nails. Always carry the tool by the handle only.** Removing your finger from the trigger when not operating the tool reduces the risk of unintentionally firing a nail and injuring yourself or someone else.

⚠ WARNING **The tool must be allowed to recoil away from the work piece. Do not drive a nail on top of another nail.** If the tool is not moved before the trigger is pulled again a second nail will be driven on top of the previously driven nail. This could cause the nail to be deflected or the tool to react in an unexpected manner.

FIG. 6



COLD WEATHER OPERATION

When using the tool in cold conditions the tool will cycle slower than usual while driving the first nails. The cycle rate will increase as the tool warms up. Keep tool warm to avoid reduced cycle rate.

⚠ WARNING **Do not use a frozen tool.** Allow tool to thaw before using. Moisture frozen in the tool may impede internal components resulting in the risk of injury and/or tool damage.

NAIL UNLOADING

⚠ WARNING **Always disconnect battery pack from tool before removing nails from magazine.** This avoids the risk of unintentional operation.

⚠ WARNING **Do not disconnect battery pack from the tool with finger on trigger or work contact element depressed.** The tool can fire when reconnected to battery pack.

1. Disconnect battery pack.
2. Pull back follower, pressing bypass lever of the follower to allow follower to bypass nails and slowly allow follower to return to nose of the tool, see figure 8.
3. Tilt the tool with the magazine vertical and the nose facing up, this will allow the nails to slide to the back of the magazine.
4. Once the nails have slid back to the hold back spring, press the tab on the hold back spring to push the spring back and allow the nails to come out of the magazine, see figure 9.

⚠ WARNING **Do not allow the nail follower to freely recoil. Guide the follower by hand until it reaches its full forward position.** Free recoil of the follower could result in damage to the follower and/or magazine or your fingers could become pinched.

DEPTH OF DRIVE ADJUSTMENT

The depth with which nails are driven into the work piece can be adjusted using the depth adjustment on the housing.

⚠ WARNING **Disconnect the battery pack from tool before making adjustments.** Such precautionary safety measures reduce the risk or unintentional tool operation.

1. Disconnect tool from battery pack.
2. Remove nails from tool as described in the "Nail Unloading" section of this manual.
3. Adjust tool driving depth:
   - To reduce the nail depth, turn the adjustment knob towards the **"flush"** icon, see figure 10.

FIG. 8

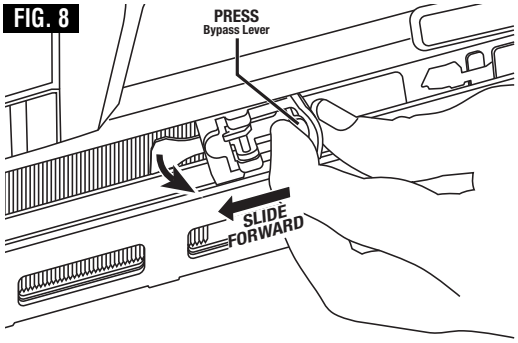


FIG. 9

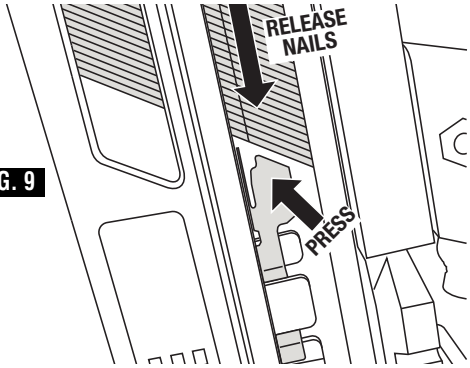


FIG. 10

Turn the adjustment knob counter clockwise.

TOO DEEP

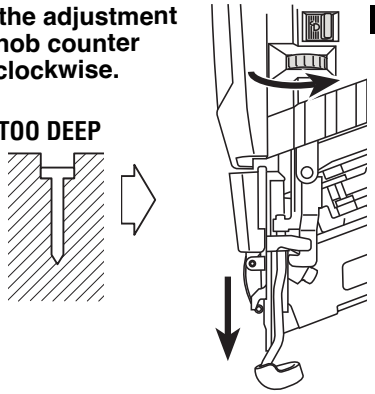
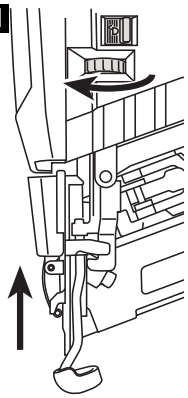
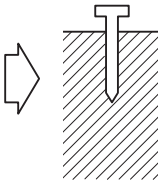


FIG. 11



Turn the adjustment knob clockwise.

TOO SHALLOW



- To drive the nail deeper, turn the adjustment knob **"too shallow"** icon, see figure 11.

4. Reload nails as described in the "Nail Loading" section of this manual.
5. Reconnect battery pack.

⚠ WARNING **Know what is behind your work piece. Do not fire nails into walls or floors without assuring the area on the opposite side is clear.** A nail could travel through the work piece, striking someone.

JAM CLEARING

⚠ WARNING **Disconnect the battery pack from tool before attempting to clear a jammed nail.** Such precautionary safety measures reduce the risk of unintentional tool operation.

If a nail becomes jammed in the nosepiece, follow these instructions to remove the jammed nail:

1. Release the trigger.
2. Disconnect the battery from the tool.
3. Remove nails from the magazine as described in "Nail Unloading."
4. Open the nose of the tool by pulling quick release lever forward. Pull open the nose of the tool to access the nail jam, see figure 12.
5. Remove the nail, using pliers if necessary.
6. Close the nose of the tool by hooking the spring of the quick clear lever on the two hooks on the nose. Press the lever closed, see figure 13.
7. Reinsert nails into the magazine as described in "Nail Loading".
8. Reconnect battery.

NOTE: If the driver blade does not return to its up position, disconnect battery and contact a Bosch factory service center or authorized Bosch service station.

NOTE: If nails continue to jam frequently in the nose piece, contact BOSCH service center for repair.

FIG. 12

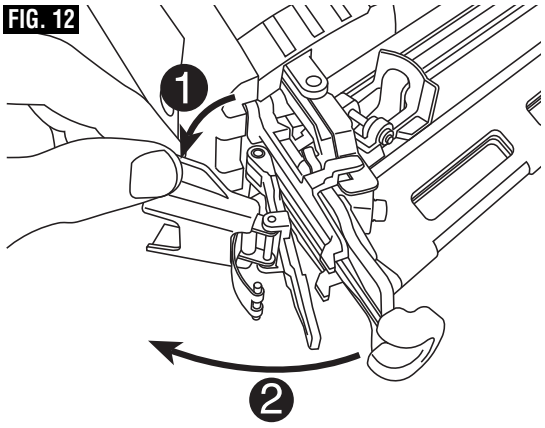
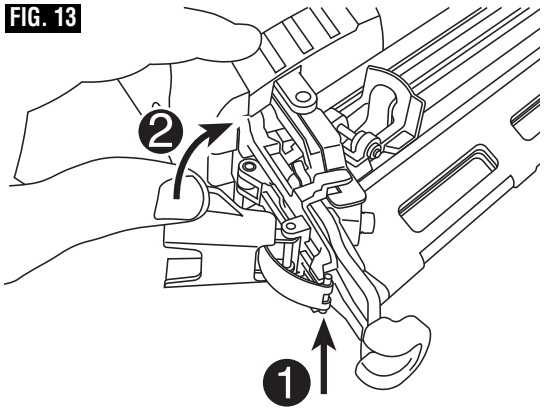


FIG. 13



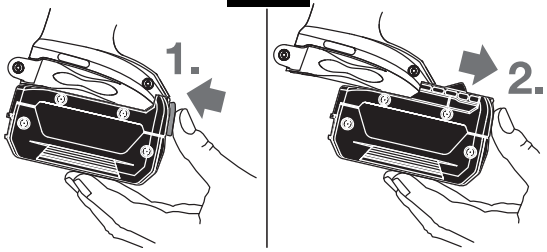
INSERTING AND RELEASING BATTERY PACK

Your tool is equipped with a secondary locking latch to prevent the battery pack from completely falling out of the handle, should it become loose due to vibration.

To remove the battery pack, press the battery pack release button and slide the battery pack forward.

Press the battery pack release button again and slide the battery pack completely out of tool housing (Fig. 14).

FIG. 14



IMPORTANT CHARGING NOTES

1. The charger was designed to fast charge the battery only when the battery temperature is between 32˚F (0˚C) and 113˚F (45˚C). If the battery pack is too hot or too cold, the charger will not fast charge the battery. (This may happen if the battery pack is hot from heavy use). When the battery temperature returns to between 32˚F (0˚C) and 113˚F (45˚C), the charger will automatically begin charging.

2. A substantial drop in operating time per charge may mean that the battery pack is nearing the end of its life and should be replaced.

3. Remember to unplug charger during storage period.

4. If battery does not charge properly:

a. Check for voltage at outlet by plugging in some other electrical device.

b. Check to see if outlet is connected to a light switch which turns power “off” when lights are turned off.

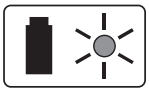
c. Check battery pack terminals for dirt. Clean with cotton swab and alcohol if necessary.

d. If you still do not get proper charging, take or send tool, battery pack and charger to your local Bosch Service Center. See “Tools, Electric” in the Yellow Pages for names and addresses.

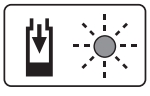
Note: Use of chargers or battery packs not sold by Bosch will void the warranty.

CHARGER INDICATORS, SYMBOLS AND MEANING (Model BC630)

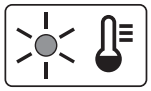
If the indicator lights are “OFF”, the charger is not receiving power from power supply outlet.



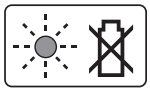
If the green indicator light is “ON”, the charger is plugged in but the battery pack is not inserted, or the battery pack is fully charged.



If the green indicator light is “BLINKING”, the battery pack is being fast-charged. Fast-charging will automatically stop when the battery pack is fully charged.



If the red indicator light is “ON”, the battery pack is too hot or cold for fast-charging. The charger will automatically switch to fast-charging once a suitable temperature is reached.



If the red indicator light is “BLINKING”, the battery pack cannot accept a charge or the contacts of the charger or battery pack are contaminated. Clean the contacts of the charger or battery pack only as directed in these operating instructions or those supplied with your tool or battery pack.

CHARGING BATTERY PACK (Model BC630)

Plug charger cord into your standard power outlet.

With no battery pack inserted, the charger's green indicator light will go ON. This indicates the charger is receiving power and the charger is ready for operation.

When you insert the battery pack into the charger. The charger's green indicator light will begin to "BLINK". This indicates that the battery is receiving a fast charge (Fig. 15).

When the indicator light stops "BLINKING" (and becomes a steady green light) fast charging is complete. The battery pack is fully charged and can be removed from the charger.

The battery pack may be used even though the light may still be blinking. The light may require more time to stop blinking depending on temperature.

The purpose of the green light is to indicate that the battery pack is fast-charging. It does not indicate the exact point of full charge. The light will stop blinking in less time if the battery pack was not completely discharged.

When you begin the charging process of the battery pack, a steady red light could also mean the battery pack is too hot or too cold.

Fast charging is only possible when the temperature range of the battery pack is between 32˚F (0˚C) and 113˚F (45˚C). When needed, the internal fan of the charger will turn on to aid the charging process and speed.

As soon as the battery pack reaches the correct temperature range, the battery charger will automatically switch to fast charging.

If the red indicator light is "BLINKING", the battery pack cannot accept a charge.

- Check to make sure the battery pack is inserted into the charger properly.
- Clean the contacts of the charger or battery pack (e. g. by inserting and removing the battery several times) or replace the battery pack, as required.

When the battery pack is fully charged, unplug the charger (unless you're charging another battery pack) and slip the battery pack back into the tool.

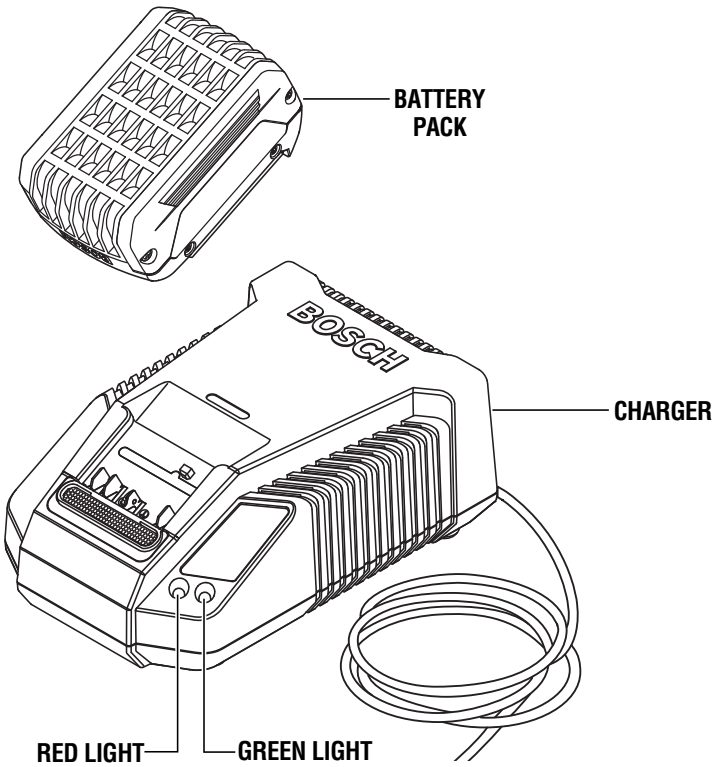


FIG. 15

CHARGER INDICATORS, SYMBOLS AND MEANING (Model BC660)

If the indicator lights are “OFF”, the charger is not receiving power from power supply outlet.

If the green indicator light is “ON”, the charger is plugged in but the battery pack is not inserted, or the battery pack is fully charged, **or** the battery pack is too hot or cold for fast-charging. The charger will automatically switch to fast-charging once a suitable temperature is reached.

If the green indicator light is “BLINKING”, the battery pack is being fast-charged. Fast-charging will automatically stop when the battery pack is fully charged.

CHARGING BATTERY PACK (Model BC660)

Plug charger cord into your standard power outlet.

With no battery pack inserted, the charger’s green indicator light will go ON. This indicates the charger is receiving power and the charger is ready for operation.

When you insert the battery pack into the charger, the charger’s green indicator light will begin to “BLINK”. This indicates that the battery is receiving a fast charge (Fig. 16).

When the indicator light stops “BLINKING” (and becomes a steady green light) fast charging is complete. The battery pack is fully charged and can be removed from the charger.

When you begin the charging process of the battery pack, a steady green light could also mean the battery pack is too hot or too cold.

Fast charging is only possible when the temperature range of the battery pack is between 32˚F (0˚C) and 113˚F (45˚C). When needed, the internal fan of the charger will turn on to aid the charging process and speed.

As soon as the battery pack reaches the correct temperature range, the battery charger will automatically switch to fast charging.

The battery pack may be used even though the light may still be blinking. The light may require more time to stop blinking depending on temperature.

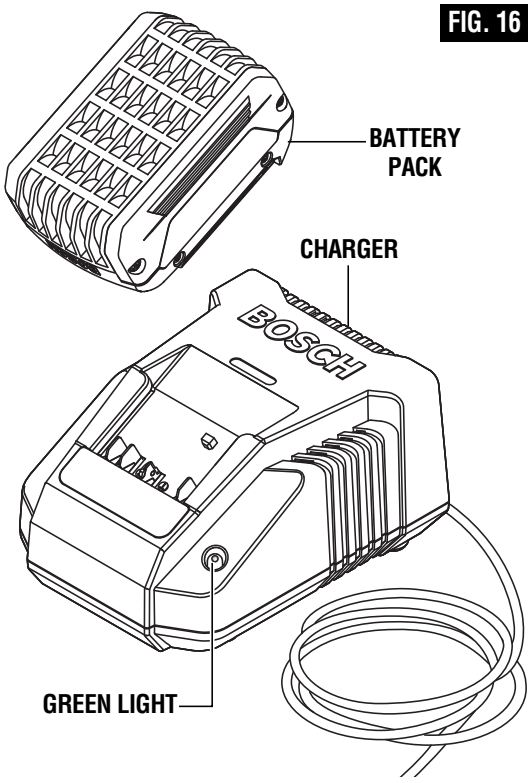
The purpose of the green light is to indicate that the battery pack is fast-charging. It does not indicate the exact point of full charge. The light will stop blinking in less time if the battery pack was not completely discharged.

If the green indicator light is “ON”, the battery pack cannot accept a charge.

- Check to make sure the battery pack is inserted into the charger properly.
- Clean the contacts of the charger or battery pack (e. g. by inserting and removing the battery several times) or replace the battery pack, as required.

When the battery pack is fully charged, unplug the charger (unless you're charging another battery pack) and slip the battery pack back into the tool.

FIG. 16



Maintenance

Service

⚠ WARNING Maintenance performed by unauthorized personnel may result in misplacing of the internal components which could cause serious hazard. We recommend that all tool service be performed by a BOSCH factory service center or authorized BOSCH service station.

Contact your BOSCH service center for instructions and the following user replaceable parts; rubber cords, and driver block assembly.

For all other repairs contact your BOSCH service center.

BATTERIES

Be alert for battery packs that are nearing their end of life. If you notice decreased tool performance or significantly shorter running time between charges then it is time to replace the battery pack. Failure to do so can cause the tool to operate improperly or damage the charger.

TOOL LUBRICATION

Your Bosch tool has been properly lubricated and is ready for use.

D.C. MOTORS

The motor in your tool has been engineered for many hours of dependable service. To maintain peak efficiency of the motor, we recommend it be examined every six months. Only a genuine Bosch replacement motor specially designed for your tool should be used.

Cleaning

⚠ WARNING To avoid accidents, always disconnect the tool and/or charger from the power supply before cleaning. The tool may be cleaned most effectively with compressed dry air. **Always wear safety goggles when cleaning tools with compressed air.**

⚠ WARNING Do not attempt to clean by inserting pointed objects through opening. Sharp edges may damage internal components causing a serious hazard.

Ventilation openings, the work contact element, and the trigger must be kept clean and free of foreign matter.

Clean the magazine. Remove plastic or wooden chips which may have accumulated in the magazine.

⚠ CAUTION Certain cleaning agents and solvents damage plastic and rubber parts. Some of these are: gasoline, carbon tetrachloride, chlorinated cleaning solvents, ammonia and household detergents that contain ammonia.

Storage

When not in use, the tool should be disconnected and stored in the storage case in a warm and dry place.

Do not store the tool in a cold weather environment.

⚠ WARNING Keep out of reach of children and personnel unfamiliar with tool operation. Lock the storage area. Tools are dangerous in the hands of personnel unfamiliar with the tool.

Extension Cords

⚠ WARNING If an extension cord is necessary, a cord with adequate size conductors that is capable of carrying the current necessary for your tool must be used. This will prevent excessive voltage drop, loss of power or overheating. Grounded tools must use 3-wire extension cords that have 3-prong plugs and receptacles.

NOTE: The smaller the gauge number, the heavier the cord.

RECOMMENDED SIZES OF EXTENSION CORDS 120 VOLT ALTERNATING CURRENT TOOLS

Tool's Ampere Rating	Cord Size in A.W.G.				Wire Sizes in mm^2			
	Cord Length in Feet				Cord Length in Meters			
	25	50	100	150	15	30	60	120
3-6	18	16	16	14	0.75	0.75	1.5	2.5
6-8	18	16	14	12	0.75	1.0	2.5	4.0
8-10	18	16	14	12	0.75	1.0	2.5	4.0
10-12	16	16	14	12	1.0	2.5	4.0	—
12-16	14	12	—	—	—	—	—	—

Accessories

No-Mar Tip

The No-Mar Tip on the nose of the work contact element protects the work piece from unintentional marring from bare metal wire nose when compressed during actuation. The tip can be removed and replaced.

⚠ WARNING Disconnect the battery pack from the tool and remove nail strips before removing or replacing no-mar tips. Such precautionary safety measures reduce the risk or unintentional tool operation.

To remove the tip: Pull the no mar tip towards the back of the tool following the bend of the wire nose.

To replace the tip. Push the no mar tip on to the tool inserting the opening of the no mar tip on to the wire nose.

Trouble Shooting Guide

Many common problems can be solved easily by utilizing the chart below. For more serious or persistent problems, contact a Bosch service center or call 877-BOSCH-99.

⚠ WARNING Read instruction manual first! Remove battery pack and nails from the tool before making adjustments, assembling accessories or servicing.

TROUBLE: TOOL WILL NOT START

PROBLEM
1. Battery pack not charged, or battery pack is damaged.
2. Battery pack not installed properly.
3. Battery pack temperature is too hot or cold for operation.
4. Terminals are dirty or damaged.
5. Tool lock-off switch is in locked position.
6. No fasteners in magazine.
7. Work Contact Element (WCE) or trigger not fully depressed.
8. Burned out switch.
9. Bent WCE.
10. Damaged internal electronics.

REMEDY
1. Charge or replace battery.
2. Confirm battery is locked and secured to the tool.
3. Let battery sit a few minutes or until it reaches normal operating temperature.
4. See authorized service center
5. Unlock tool lock-out switch
6. Load fasteners into magazine
7. See instruction manual
8. See authorized service center
9. See authorized service center
10. See authorized service center

TROUBLE: TOOL WILL NOT ACTUATE OR FIRE (MOTOR RUNS BUT TOOL DOES NOT FIRE)

PROBLEM
1. Low battery charge or damaged battery
2. WCE or trigger released prematurely
3. Damaged trigger
4. Jammed mechanism
5. Damaged or worn return system
6. Debris in firing mechanism
8. Damaged motor or belt
8. Damaged internal electronics

REMEDY
1. Charge or replace battery
2. See instruction manual
3. See authorized service center
4. See authorized service center
5. Replace return system, see page 22 or see authorized service center
6. See authorized service center
7. See authorized service center
8. See authorized service center

Trouble Shooting Guide (continued)

Many common problems can be solved easily by utilizing the chart below. For more serious or persistent problems, contact a Bosch service center or call 877-BOSCH-99.

⚠ WARNING Read instruction manual first! Remove battery pack and nails from the tool before making adjustments, assembling accessories or servicing.

TROUBLE: DRIVER BLADE STUCK DOWN (DOES NOT RETURN)

PROBLEM
1. Jammed fastener
2. Damaged or worn return system
3. Debris in nosepiece
4. Damaged driver blade assembly

REMEDY
1. Remove battery pack from tool. Refer to “jam clearing” on page 13 for details.
2. Replace return system; see page 21 or see authorized service center
3. Clean nosepiece
4. Replace drive assembly; see page 23 or see authorized service center

TROUBLE: TOOL OPERATES, BUT DOES NOT DRIVE THE FASTENER FULLY

PROBLEM
1. Battery pack not charged, or battery pack is damaged.
2. Depth adjustment set too shallow
3. Tool not firmly applied to workpiece
4. Material and fastener length too rigorous an application
5. Damaged or worn driver blade tip
6. Damaged or worn driver/return assembly

REMEDY
1. Charge or replace battery
2. Rotate depth adjustment wheel to a deeper setting
3. See instruction manual
4. Choose appropriate material or fastener length
5. Replace driver/return assembly; see page 23 or see authorized service center
6. Replace driver/return assembly; see page 23 or see authorized service center

TROUBLE: TOOL OPERATES PROPERLY (MOTOR RUNS AND TOOL FIRES), BUT NO FASTENER DRIVEN

PROBLEM
1. No fasteners in magazine
2. Wrong size or angle fasteners
3. Debris in nosepiece
4. Debris in magazine
5. Worn magazine
6. Damaged or worn return system
7. Damaged or worn driver blade
8. Damaged follower spring

REMEDY
1. Load fasteners into magazine
2. Use only recommended fasteners
3. Clean nosepiece
4. Clean magazine
5. Replace magazine; see authorized service center
6. Replace return system; see page 21 or see authorized service center
7. Replace driver assembly; see page 21 or see authorized service center
8. Replace spring; see authorized service center

Trouble Shooting Guide (continued)

⚠ WARNING Read instruction manual first! Remove battery pack from the tool before making adjustments or assembling accessories.

TROUBLE: JAMMED FASTENER

PROBLEM
1. Wrong size or angle fasteners
2. Damaged or worn driver blade
3. Material and fastener length too rigorous an application
4. Low battery charge or damaged battery
5. Debris in nosepiece
6. Debris in magazine
7. Worn magazine
8. Worn or damaged follower spring

REMEDY
1. Use only recommended fasteners
2. Replace driver/return assembly; see authorized service center
3. Material or fastener length inappropriate
4. Charge or replace battery
5. Clean nosepiece
6. Clean magazine
7. Replace magazine; see authorized service center
8. Replace spring; see authorized service center

Replacing Return System

⚠ WARNING Read instruction manual first! Remove battery pack and nails from the tool before making adjustments, assembling accessories or servicing.

To replace rubber cords, follow steps below:

1. Remove metal cap. Using 3mm allen wrench, remove 3 screws and set aside (Fig. 17).
2. Remove drive block pin #1 by pushing on one side. Pull on other end to remove. *TIP* 16ga finish nail can be used to slide pin out (Fig. 18).
3. Locate pin #2. To remove, use pin #1 and push pin #2 from either side until enough of the pin has been exposed. Remove completely. Place both pins in secure place for reassembly (Fig. 19).
4. Sub Assembly. Holding tool securely with one hand, use other hand to remove driver sub-assembly by grabbing both sides and then pull directly back (Fig. 20).
5. The Driver Sub Assembly consists of 5 parts (Fig. 21):

A) Driver Block Assembly (1)
B) Guide Rails (2)
C) Guide Sleeves (2)
D) Return Frame (1)
E) Rubber Cords (2)

6. Remove worn or damaged rubber cords. Align new rubber cords with tabs on the back of the return frame first (Fig. 22).

FIG. 17

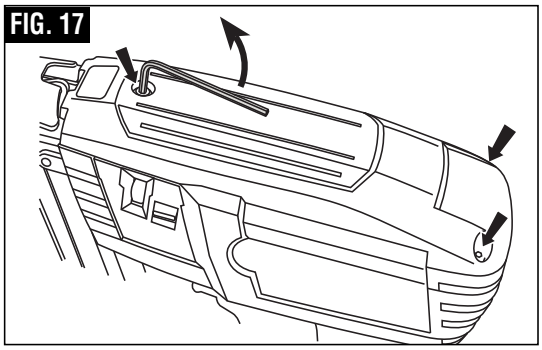


FIG. 20

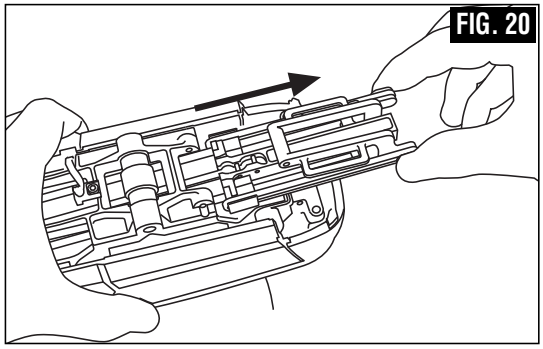


FIG. 18

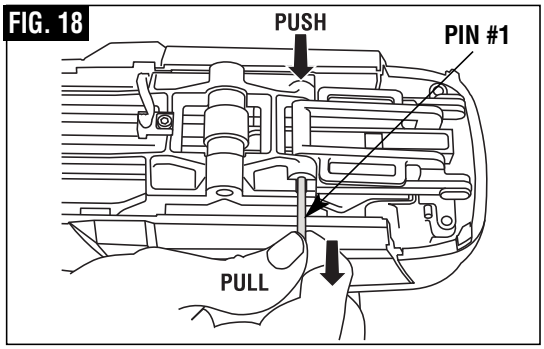


FIG. 21

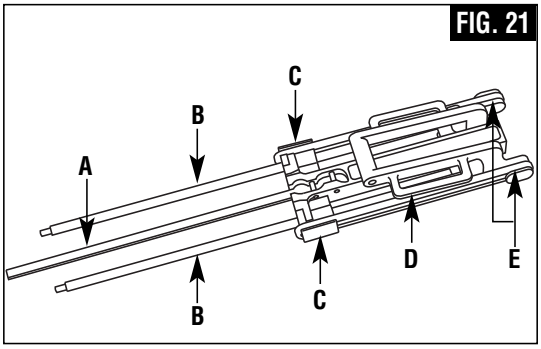


FIG. 19

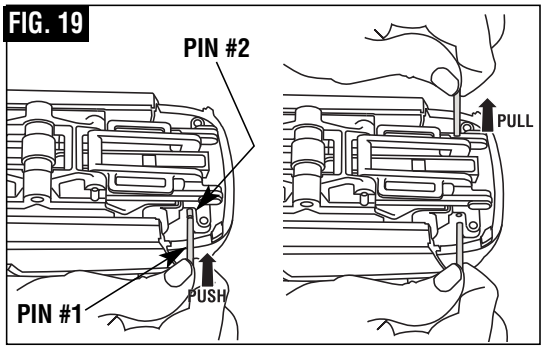
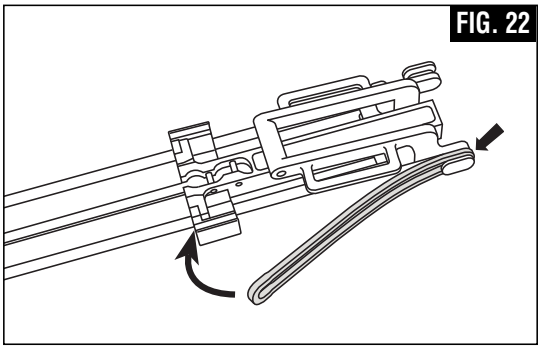


FIG. 22



7. Align other end of rubber cord with guide sleeve. Repeat steps for 2nd rubber cord (Fig. 23).
8. To ensure proper alignment of rubber cords, guide sleeves must be properly installed. See (Figure 24) for correct orientation.
9. Rubber cord must be properly installed. See (Figure 25) for correct orientation. Any twisting of the cord will impair performance.
10 Replace Driver Sub-Assembly. Holding tool securely with one hand, use other hand to grab both sides of the driver sub-assembly and then push forward into tool (Fig. 26).
11. NOTE: To properly install driver sub-assembly, the driver blade and guide rails will need to be repositioned into correct placement (Fig. 27). See following steps for more detail.

*Tip: Place tool on nose (firing position, battery removed) for better view.

12 Align driver blade (A) by inserting blade tip into blade shaft opening (B) (Fig. 28).

FIG. 23

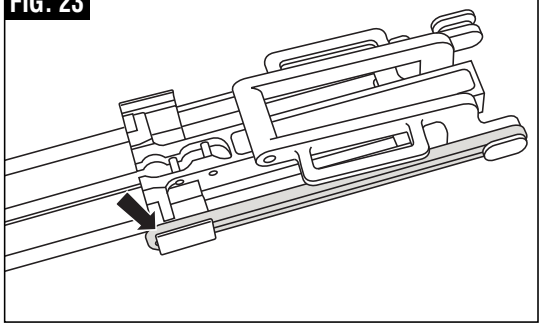


FIG. 24

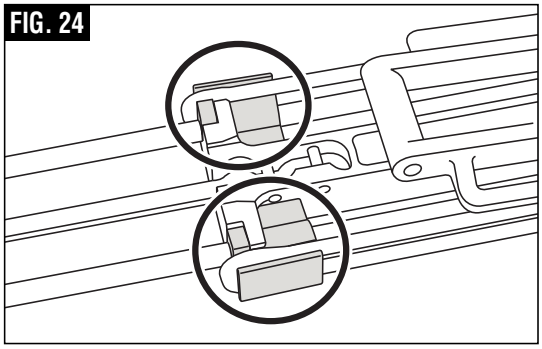


FIG. 25

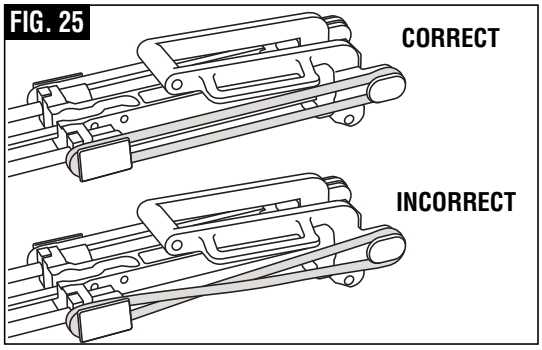


FIG. 26

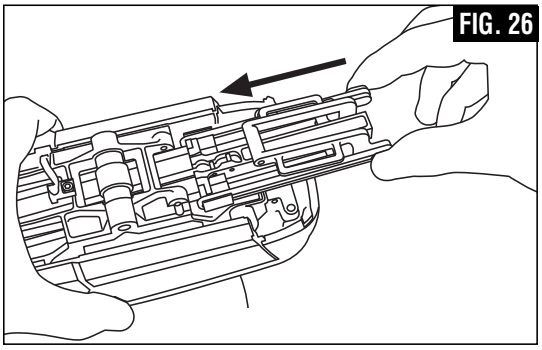


FIG. 27

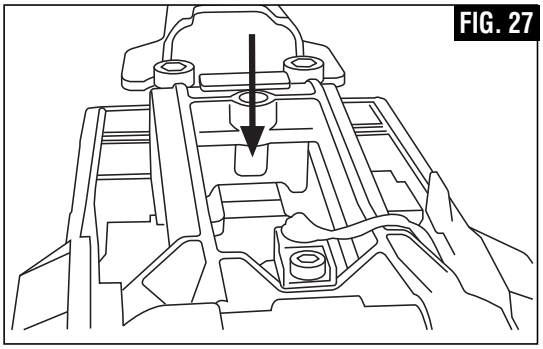
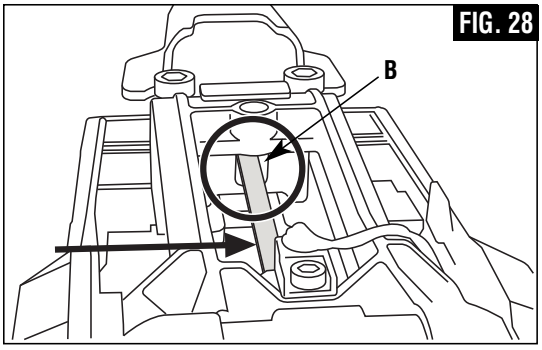


FIG. 28



13. As driver blade is inserted into blade opening, align both guide rails into rail holes on both sides (Fig. 29).
14. Securing driver sub-assembly to tool. Frame assembly should align with mounting holes for pins. Insert both pins and push in (Fig. 30).
15. Pins should stick out an equal length from both sides (Fig. 31).
16 Place metal top cap back on tool. Replace (3) allen screws (Fig. 32).

FIG. 29

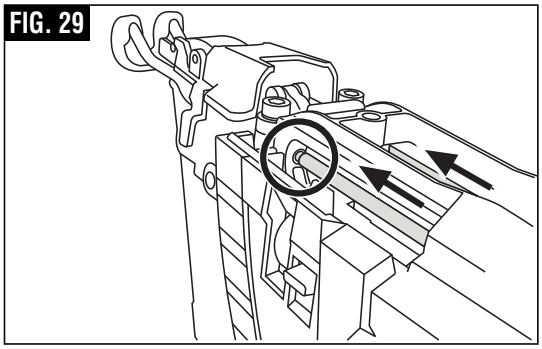


FIG. 31

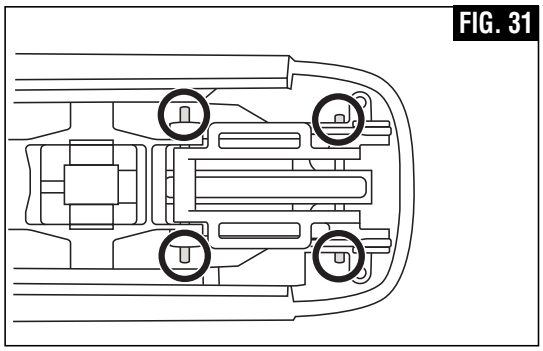


FIG. 30

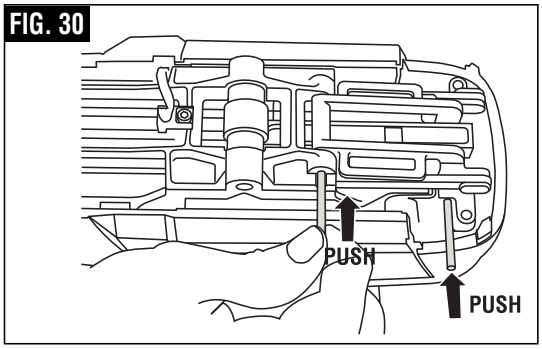
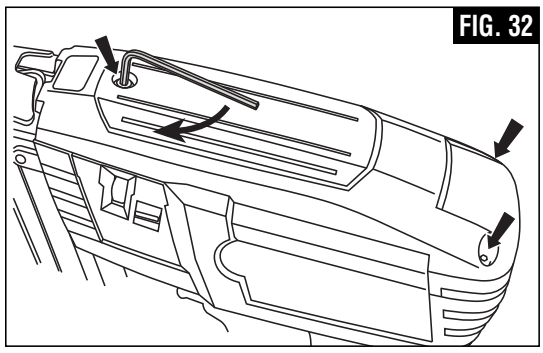


FIG. 32



Replacing Driver Blade

1. Remove metal cap. Using 3mm hex wrench, remove 3 screws and set aside (Fig. 33).
2. Remove drive block pin #1 by pushing on one side. Pull on other end to remove. *TIP* 16ga finish nail can be used to slide pin out (Fig. 34).

To replace drive blade, follow steps below:

FIG. 33

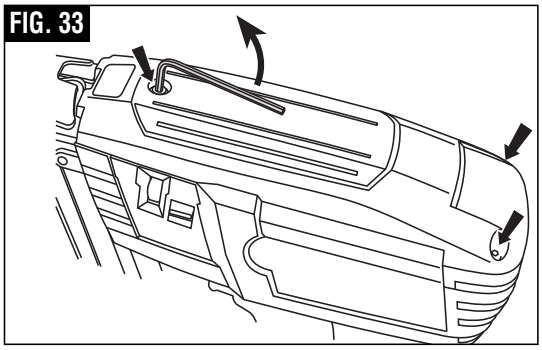
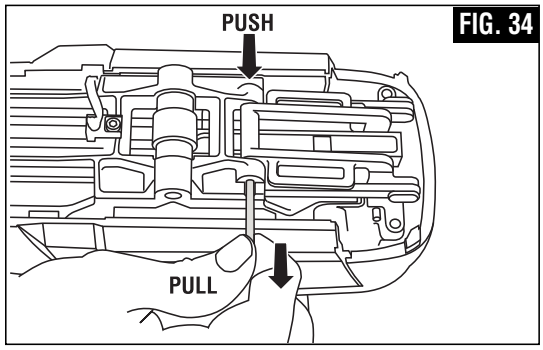


FIG. 34



3. Locate pin #2. To remove, use pin #1 and push pin #2 from either side until enough of the pin has been exposed. Remove completely. Place both pins in secure place for reassembly (Fig. 35).
4. Remove Driver Sub Assembly. Holding tool securely with one hand, use other hand to remove driver sub-assembly by grabbing both sides and then pull directly back (Fig. 36).
5. The Driver Sub Assembly consists of 5 parts (Fig. 37):

A) Driver Block Assembly (1)
B) Guide Rails (2)
C) Guide Sleeves (2)
D) Return Frame (1)
E) Rubber Cords (2)

6. Remove rubber cords and pull driver block assembly away from return frame and guide rails (Fig. 38).
7. Remove guide sleeves away from driver block assembly (Fig. 39).
8. If rubber bumper and guide rail become detached from return frame, re-attach rubber bumper and guide rail as shown (Fig. 40).

FIG. 35

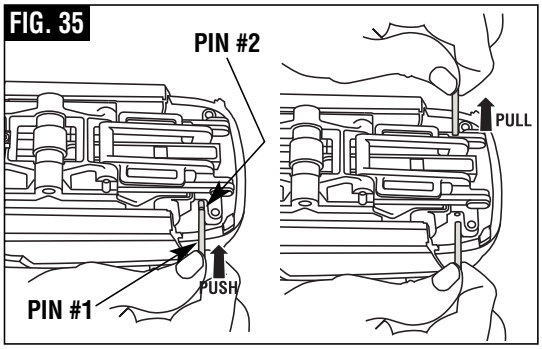


FIG. 36

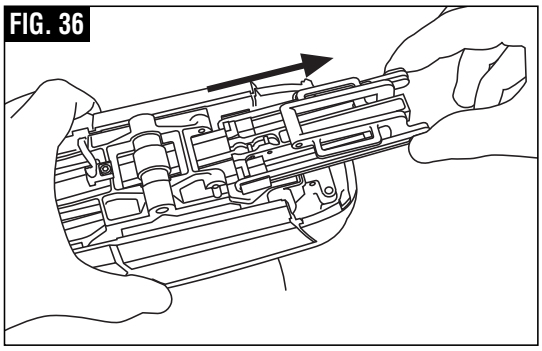


FIG. 37

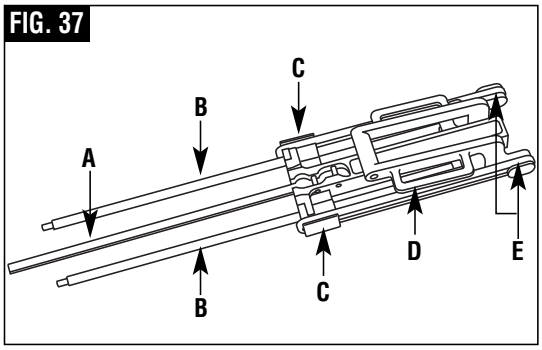


FIG. 38

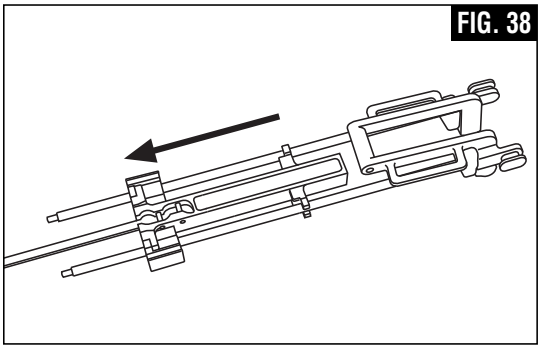


FIG. 39

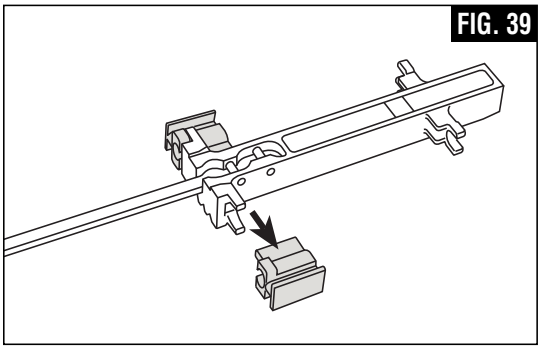
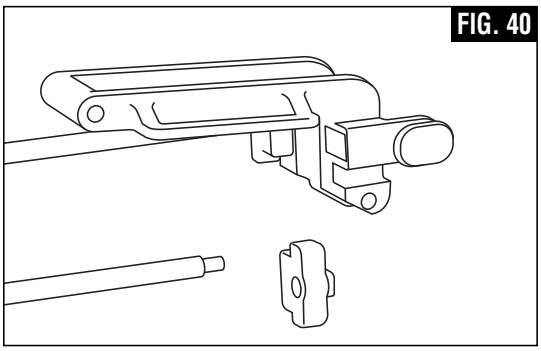


FIG. 40



9. Simply push back into place (Fig. 41).
10. Locate driver block assembly replacement. NOTE: Ribbed side of assembly should face down (Fig. 42).
11. Locate and reattach guide sleeves to lower portion of driver block assembly (Fig. 43).
12. To ensure proper alignment of rubber cords, guide sleeves must be properly installed. See Figure 44 for correct orientation.
13. Hold guide sleeves and rear tabs securely to driver block assembly with one hand while holding frame with guide rails in the other hand. Insert guide rails into holes in guide sleeves (Fig. 45).
14. Replace rubber cords. Align rubber cords with tabs on the back of the frame first (Fig. 46).

FIG. 41

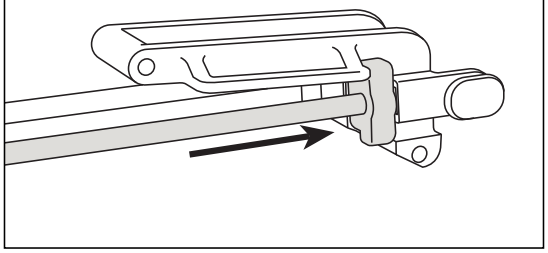


FIG. 44

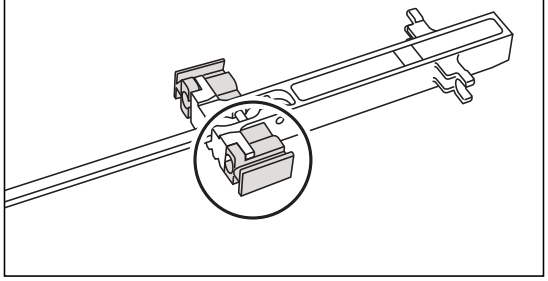


FIG. 42

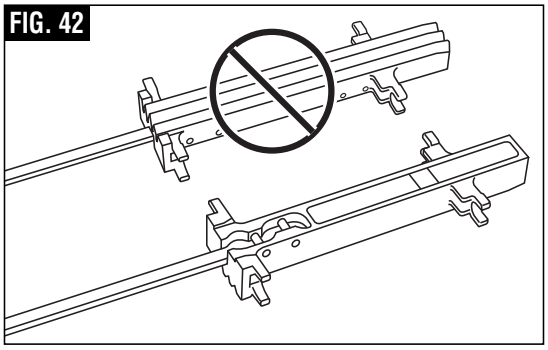


FIG. 45

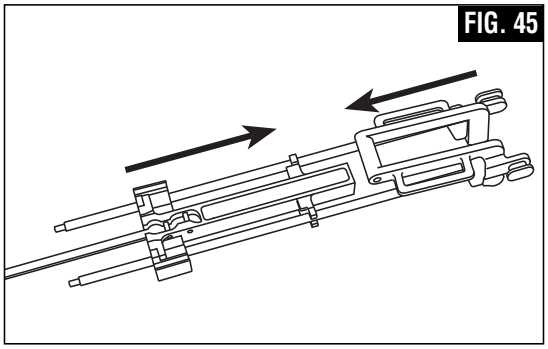


FIG. 43

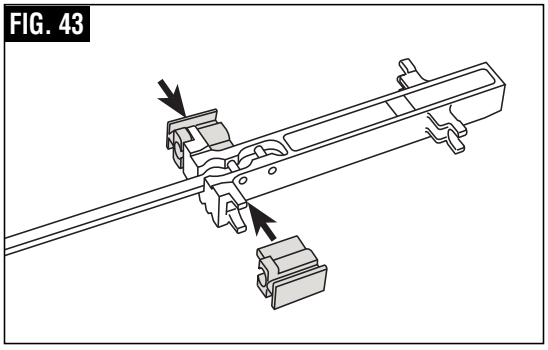
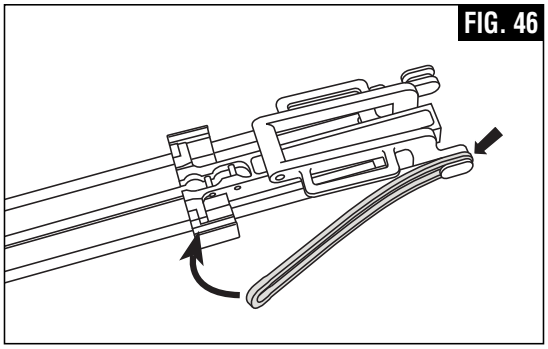


FIG. 46



15. Align other end of rubber cord with guide sleeve. Repeat steps for 2nd rubber cord (Fig. 47).
16. To ensure proper alignment of rubber cords, guide sleeves must be properly installed. See figure 48 for correct orientation.
17. Rubber cord must be properly installed. See (Figure 49) for correct orientation. Any twisting of the cord will impair performance.
18. Replace driver sub-assembly. Holding tool securely with one hand, use other hand to grab both sides of the driver sub-assembly and then push forward into tool (Fig. 50).
19. NOTE: To properly install driver sub-assembly, the driver blade and guide rails will need to be repositioned into correct placement. See following steps for more detail (Fig. 51).

*Tip: Place tool on nose (firing position, battery removed) for better view.

20. Align driver blade (A) by inserting blade tip into blade opening (B) (Fig. 52).

FIG. 47

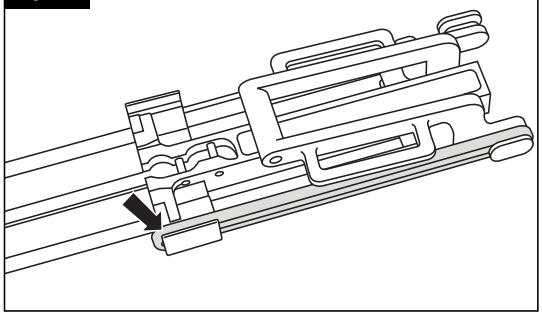


FIG. 50

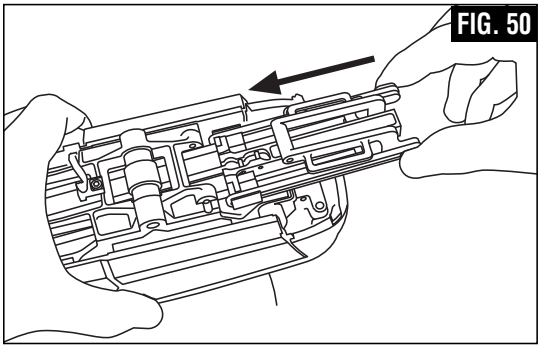


FIG. 48

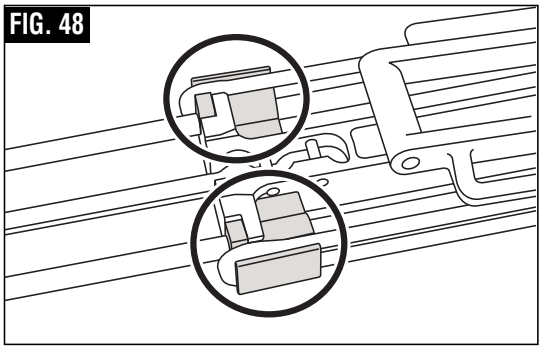


FIG. 51

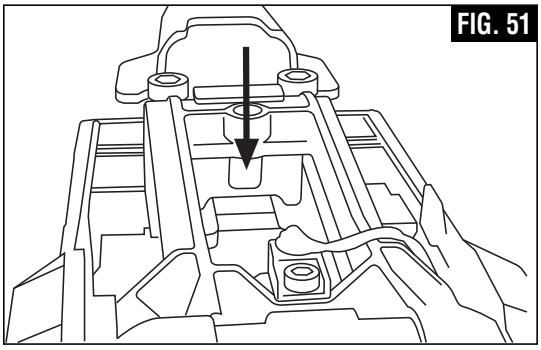


FIG. 49

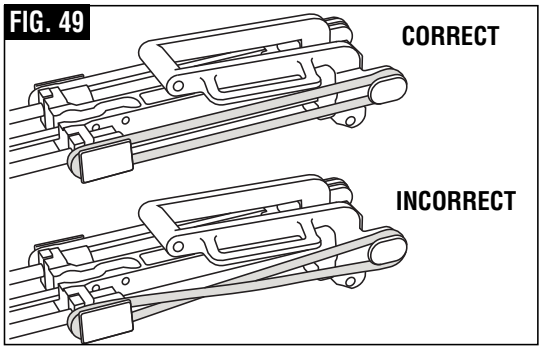
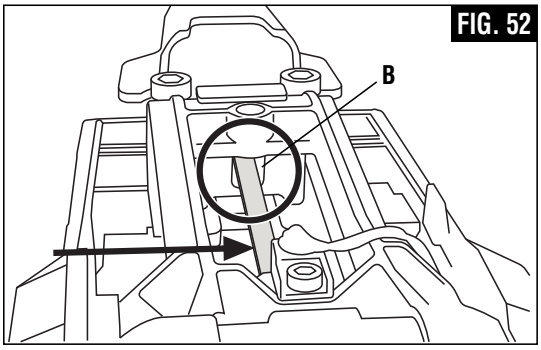


FIG. 52



21. As driver blade is inserted into blade opening, align both guide rails into rail holes on both sides (Fig. 53).
22. Securing driver sub-assembly to tool. Frame assembly should align with mounting holes for pins. Insert both pins and push in (Fig. 54).
23. Pins should stick out an equal length from both sides (Fig. 55).
24. Place metal top cap back on tool. Replace allen screws (Fig. 56).

FIG. 53

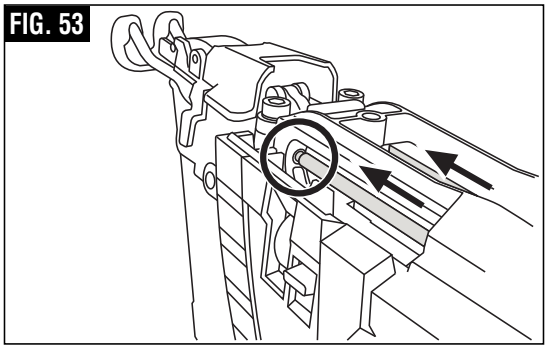


FIG. 55

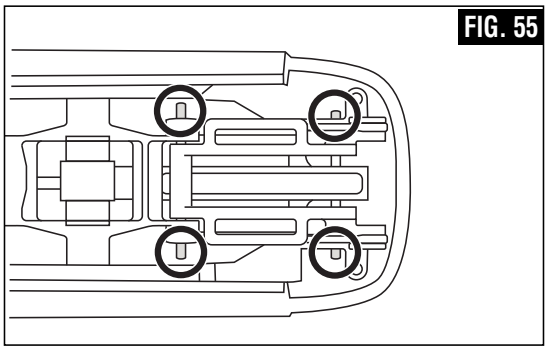


FIG. 54

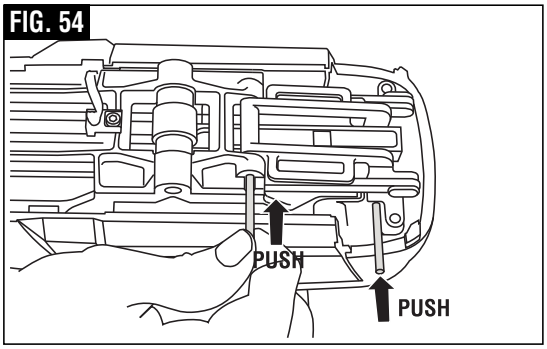
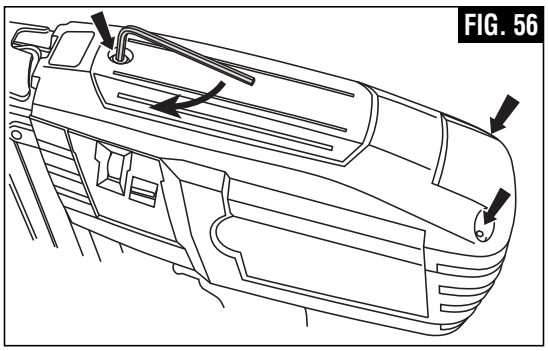


FIG. 56



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