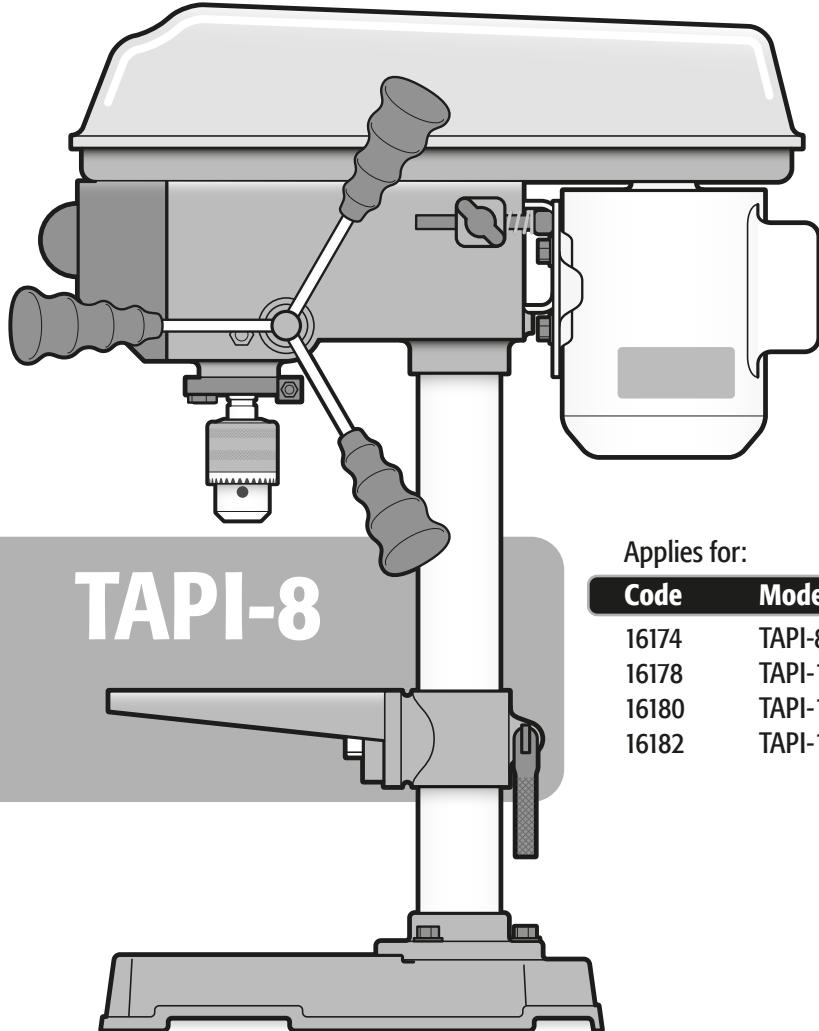


Manual

Bench and floor drills with chuck

1/2" and 5/8"



Applies for:

Code	Models
16174	TAPI-8
16178	TAPI-13
16180	TAPI-15
16182	TAPI-17



Read this manual thoroughly
before using the tool.



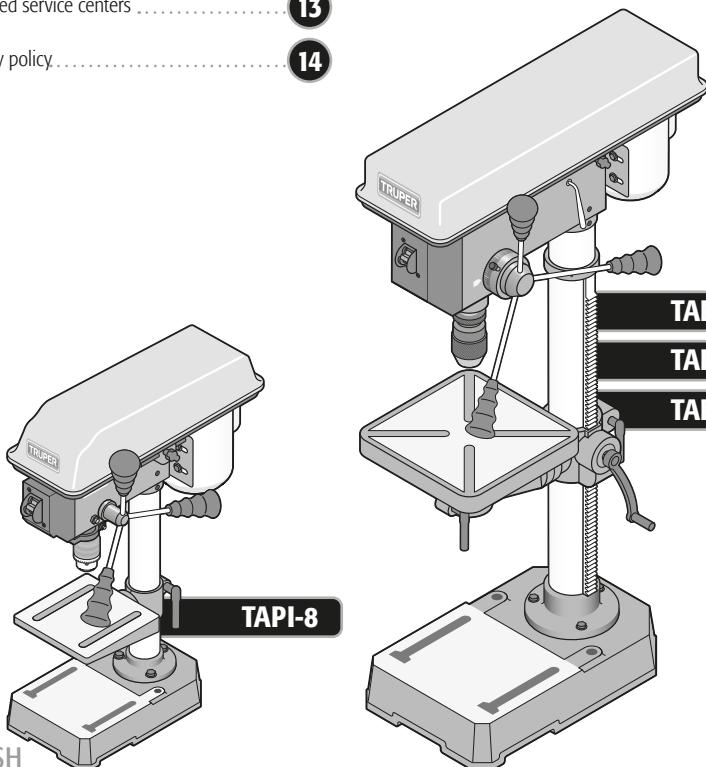
Technical data	3
Power requirements	3
! General power tool safety warnings	4
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Speeds per material	9
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CAUTION

To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.



	TAPI-8	TAPI-13	TAPI-15	TAPI-17
Code	16174	16178	16180	16182
Description	Bench drill		Floor drill	
Chuck	1/2"		5/8"	
Work Bench	6" x 6"	10 1/2" x 10 1/2"	12" x 12"	13" x 13"
Voltage			127 V~	
Frequency			60 Hz	
Current	2.5 A		6.6 A	9.5 A
Motor	1/3 HP	3/4 HP	1 HP	1 1/2 HP
Speeds	5		12	
Range	760 RPM - 3 070 RPM	250 RPM - 3 000 RPM	300 RPM - 3 000 RPM	
Conductors		18 AWG x 3C with insulating temperature of 221°F		16 AWG x 3C
Insulation		Class I		
		Power Cord Grips used in this product: Type "Y". Tool Build Quality: Basic insulation Thermal insulation on motor winding: Class B		

WARNING Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a **TRUPER®** Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not expose to rain, liquids and/or dampness.

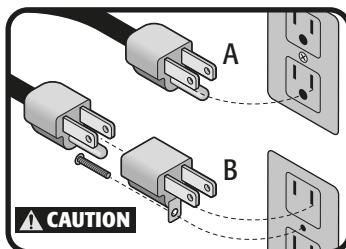


WARNING Before gaining access to the terminals all power sources should be disconnected.

Power requirements

WARNING The tool shall be grounded while in use to prevent an electric shock. • Connect the plug into a properly grounded outlet as shown in example A. Not all the outlets are properly grounded. If in doubt verify with a certified electrician. • If the outlet you plan to be using for the tool has two poles (2 orifices). **FOR NO REASON AT ALL DO NOT REMOVE OR ALTER THE GROUND CONDUCTOR IN THE PLUG.** Use a temporary adaptor as shown in example B and always connect the ground lug as indicated.

CAUTION When using an extension cable, verify the gauge is enough for the power that the tool needs. A lower gauge cable will cause voltage drop in the line, resulting in power loss and the motor will overheat. The following table shows the right size to use depending on cable's length and the ampere capability shown in the tool's nameplate. When in doubt use the next higher gauge.



Ampere Capacity	Number of Conductors	Extension Gauge
From 0 A and up to 10 A		From 5.9 ft to 49 ft Higher than 49 ft
From 10 A and up to 13 A		18 AWG 16 AWG
From 13 A and up to 15 A	3 (one grounded)	16 AWG 14 AWG
From 15 A and up to 20 A		14 AWG 12 AWG
		8 AWG 6 AWG

* It is safe to use only if the extensions themselves have an artifact for over current protection. AWG = American Wire Gauge. Reference: NMX-J-195-ANCE

WARNING When operating power tools outdoors use a grounded extension cable labeled "Outdoor Use" VOLTECK. brand. These extension cables are specially designed to be used outdoors and reduce the risk of an electric shock.

WARNING All the cabling, power connections and the ground connection in the system shall comply with the OFFICIAL MEXICAN STANDARD NOM -001 - SEDE, INSTALACIONES ELÉCTRICAS (UTILIZACIÓN) or with the local codes and or local ordinances. The user shall contact a certified electrician.



⚠️ WARNING! Read carefully all safety warnings and instructions listed below. Failure to comply with any of these warnings may result in electric shock, fire and / or severe damage. **Save all warnings and instructions for future references.**

Work area

Keep your work area clean, and well lit.

Cluttered and dark areas may cause accidents.



Never use the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

Sparks generated by power tools may ignite the flammable material.



Keep children and bystanders at a safe distance while operating the tool.

Distractions may cause loss of control.



Electrical Safety

The tool plug must match the power outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.



Modified plugs and different power outlets increase the risk of electric shock.

Avoid body contact with grounded surfaces, such as pipes, radiators, electric ranges and refrigerators.

The risk of electric shock increases if your body is grounded.

Do not expose the tool to rain or wet conditions.

Water entering into the tool increases the risk of electric shock.

Do not force the cord. Never use the cord to carry, lift or unplug the tool. Keep the cord away from heat, oil, sharp edges or moving parts.

Damaged or entangled cords increase the risk of electric shock.

When operating a tool outdoors, use an extension cord suitable for outdoor use.

Using an adequate outdoor extension cord reduces the risk of electric shock.

If operating the tool in a damp location cannot be avoided, use a ground fault circuit interrupter (GFCI) protected supply.

Using a GFCI reduces the risk of electric shock.

Personal safety

Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

A moment of distraction while operating the tool may result in personal injury.

Use personal protective equipment. Always wear eye protection.

Protective equipment such as safety glasses, anti-dust mask, non-skid shoes, hard hats and hearing protection used in the right conditions significantly reduce personal injury.



Prevent unintentional starting up. Ensure the switch is in the "OFF" position before connecting into the power source and / or battery as well as when carrying the tool.

Transporting power tools with the finger on the switch or connecting power tools with the switch in the "ON" position may cause accidents.

Remove any wrench or vice before turning the power tool on.

Wrenches or vices left attached to rotating parts of the tool may result in personal injury.

Do not overreach. Keep proper footing and balance at all times.

This enables a better control on the tool during unexpected situations.

Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothes and gloves away from the moving parts.

Loose clothes, jewelry or long hair may get caught in moving parts.



If you have dust extraction and collection devices connected onto the tool, inspect their connections and use them correctly.

Using these devices reduce dust-related risks.

Power Tools Use and Care

Do not force the tool. Use the adequate tool for your application.



The correct tool delivers a better and safer job at the rate for which it was designed.

Do not use the tool if the switch is not working properly.

Any power tool that cannot be turned ON or OFF is dangerous and should be repaired before operating.

Disconnect the tool from the power source and / or battery before making any adjustments, changing accessories or storing.

These measures reduce the risk of accidentally starting the tool.

Store tools out of the reach of children. Do not allow persons that are not familiar with the tool or its instructions to operate the tool.



Power tools are dangerous in the hands of untrained users.

Service the tool. Check the mobile parts are not misaligned or stuck. There should not be broken parts or other conditions that may affect its operation. Repair any damage before using the tool.

Most accidents are caused due to poor maintenance to the tools.



Keep the cutting accessories sharp and clean.

Cutting accessories in good working conditions are less likely to bind and are easier to control.

Use the tool, components and accessories in accordance with these instructions and the projected way to use it for the type of tool when in adequate working conditions.

Using the tool for applications different from those it was designed for, could result in a hazardous situation.

Service

Repair the tool in a TRUPER® Authorized Service Center using only identical spare parts.

This will ensure that the safety of the power tool is maintained.



Children or people with reduced physical, sensory or mental capabilities shall not operate the tool, neither inexperienced people or without knowledge in the use of the tool, unless supervised by a person responsible of their safety or if receiving previous instructions about the tool operation.

Children shall be kept under supervision to double-check they will not play with the tool. Tight supervision shall be used with children or disabled persons to prevent from using or being close to any household tool.



This tool is in compliance with
the Official Mexican Standard
(NOM - Norma Oficial Mexicana).

Select the adequate bit

- Select the bit that is adequate for the material to drill. It will reduce the risk of severe injuries and make the job faster.
- Do not try to use bits that exceed the chuck speed.
- Do not use bit exceeding 7" or extending 6" below the chuck.
- Never use sandpaper drums over 1800 RPM
- When drilling large diameters never use more than one-piece cutter.
- Never use wire brushes, circular blades, router blades or rotatory blades for brushes.

A WARNING • Do not use bits with screw type tip. These bits will lift the work piece and it will start rotating. This can cause severe injuries to the operator.

Stay alert

A DANGER • Never lean underneath or on the sides of the drill head when running. The moving bit may cause severe injuries.

A WARNING • Remove the material or residues from the area where hot wood shavings may ignite and start a fire.

A WARNING • Wood shavings or even the work piece may shoot out into the drill rotation direction causing kickback. To reduce this possibility support firmly the work piece to the table. Also, when polishing or sanding, try movements against you and not towards you.

A CAUTION • Do not touch the bit or the perforations immediately after drilling. Wait until it cools down to manipulate.

Before operating the drill

- Take your time to assess the job and double check you have complied with all the necessary caution warnings before starting to drill.

A WARNING • Fit the bit correctly into the chuck. Remove all the keys from the chuck before stating to drill. If the key is not removed it will shoot out with great speed and cause severe injuries.

A DANGER • Never put in place and / or secure the work piece when the drill is ON. Turn it OFF before making adjustments to prevent severe injuries.

• For pieces that overhang from the work table, support the piece when possible in the left-hand side of the column. Use auxiliary support if needed.

• Before you start drilling turn the drill ON one second to double check none of the mobile parts are vibrating.

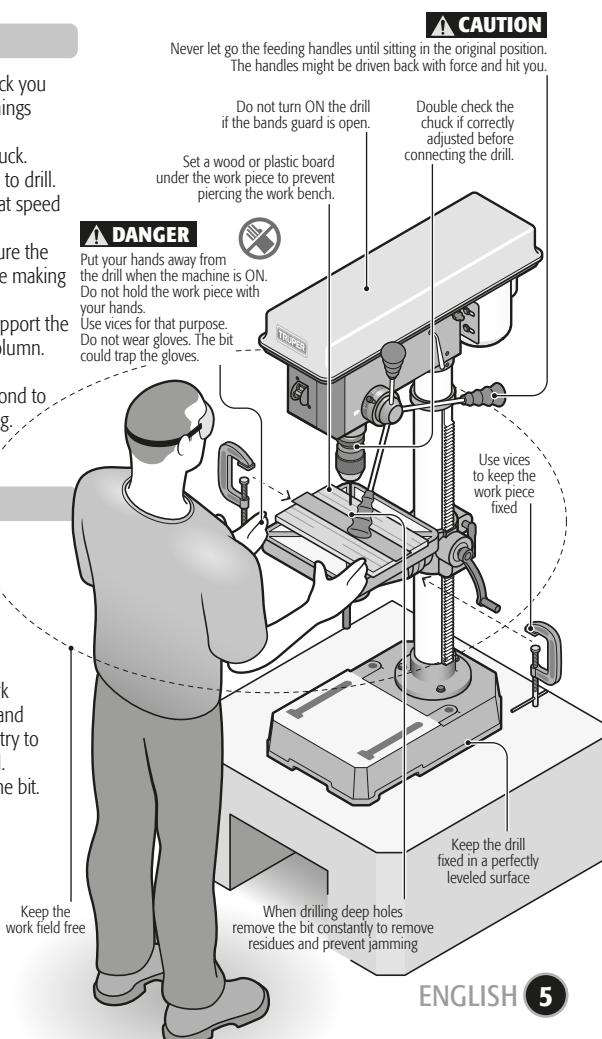
While operating the drill

• Work with a regular rhythm. Make the perforations in a firm and unhurried way and do not force the drill.

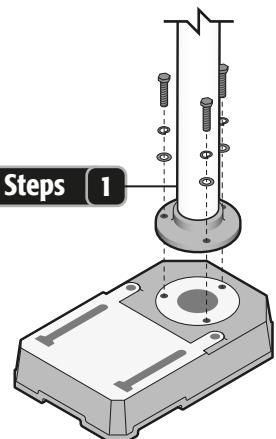
• As the bit is finished drilling the work piece, exercise less pressure and allow it to finish the hole without forcing it too much.

A CAUTION • If the bit gets stuck into the work piece, turn OFF the drill immediately. Disconnect and then, remove the bit from the work piece. Do not try to remove stuck bits by turning ON and OFF the tool.

• Use a lubricant if necessary to reduce friction in the bit.



Base and Column

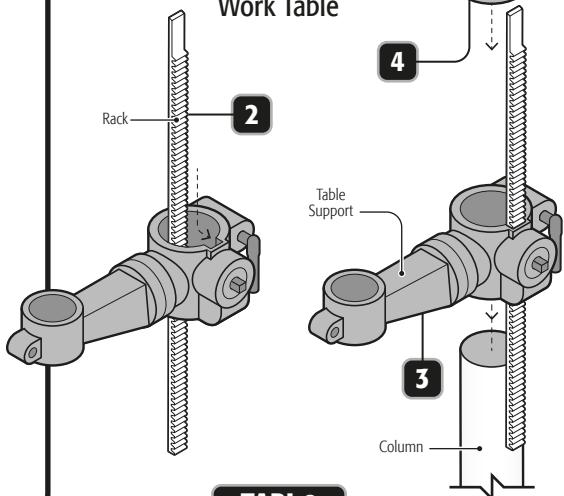


Steps

1

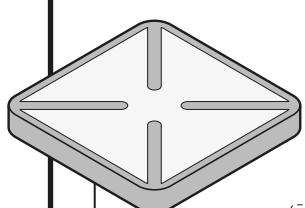
TAPI-13, TAPI-15, TAPI-17

Work Table



TAPI-8

Column

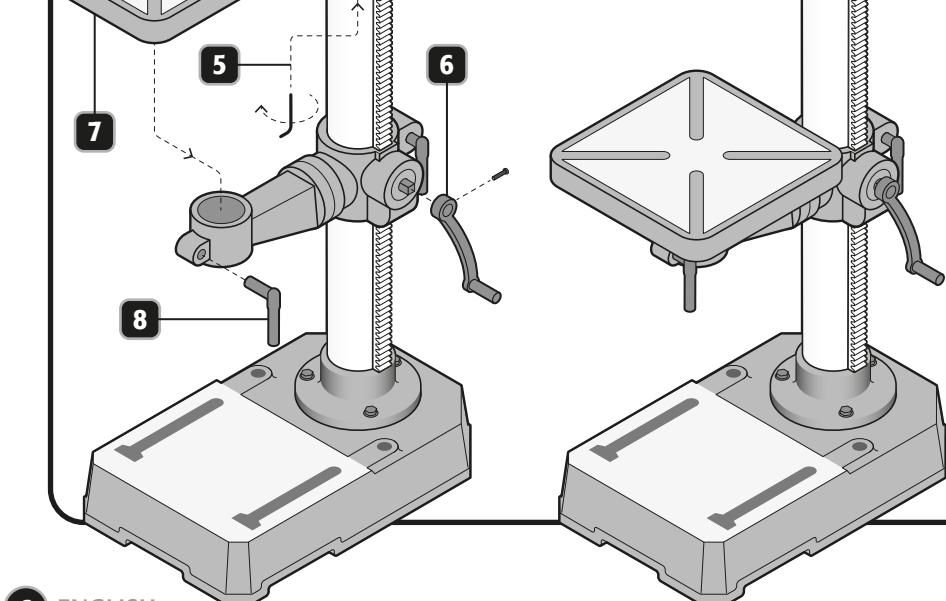


7

5

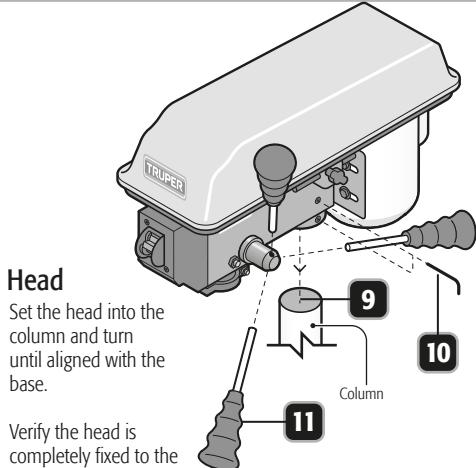
6

8



Assembly

TRUPER®

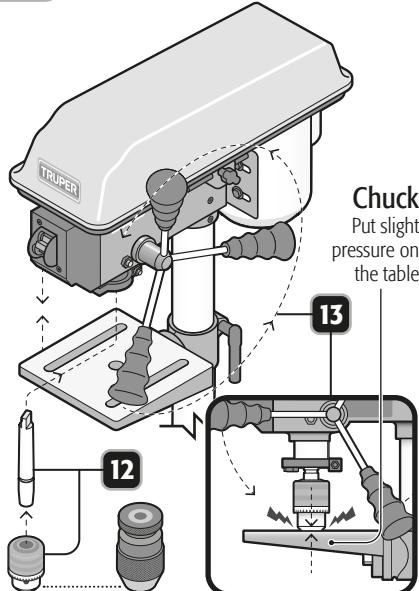


Head

Set the head into the column and turn until aligned with the base.

Verify the head is completely fixed to the column.

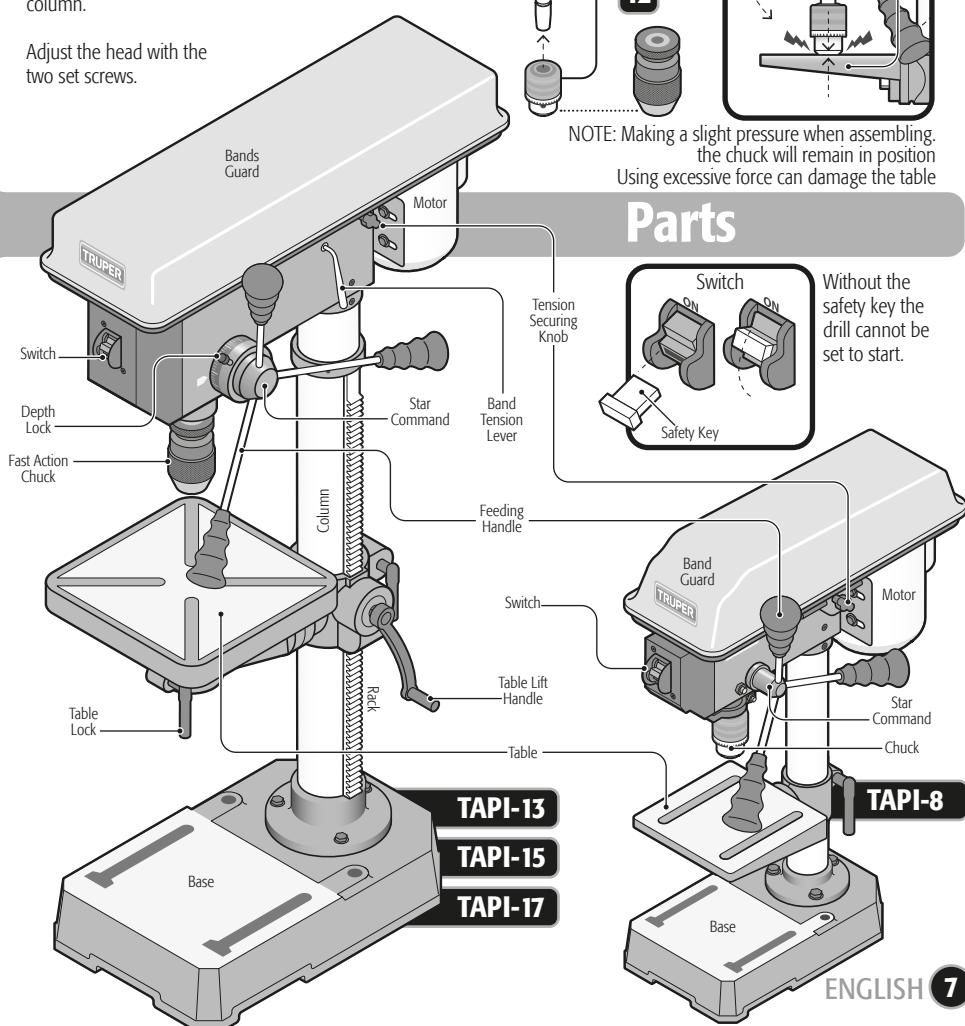
Adjust the head with the two set screws.



Chuck
Put slight pressure on the table

NOTE: Making a slight pressure when assembling, the chuck will remain in position
Using excessive force can damage the table

Parts



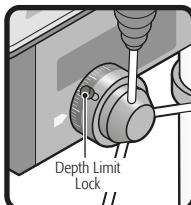
Without the safety key the drill cannot be set to start.

TAPI-8

ENGLISH **7**

Depth Scale Lock

When drilling orifices with the same depth, a depth scale lock is used.

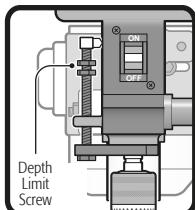


TAPI-13

TAPI-15

TAPI-17

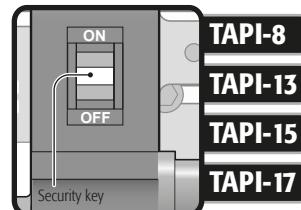
- Unscrew the lock and turn the graduated collar until reaching the required depth indicated in the pointer.
- Adjust the lock back.



TAPI-8

Depth Limit Screw

- Adjust the depth limit screw to the drilling depth required. The axis will only go down to that depth.



TAPI-8

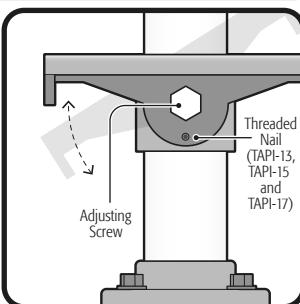
TAPI-13

TAPI-15

TAPI-17

- ON
- OFF
- Remove to lock

Table Inclination



Threaded Nail
(TAPI-13,
TAPI-15
and
TAPI-17)

Adjusting
Screw

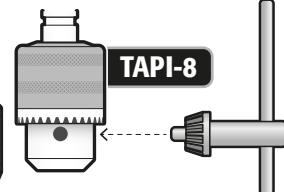
- Loosen the adjusting screws and remove the setscrew (TAPI-13, TAPI-15 and TAPI-17)
- Adjust the required angle using the scale.
- Firmly adjust back the screws.

Chucks

TAPI-13

TAPI-15

TAPI-17



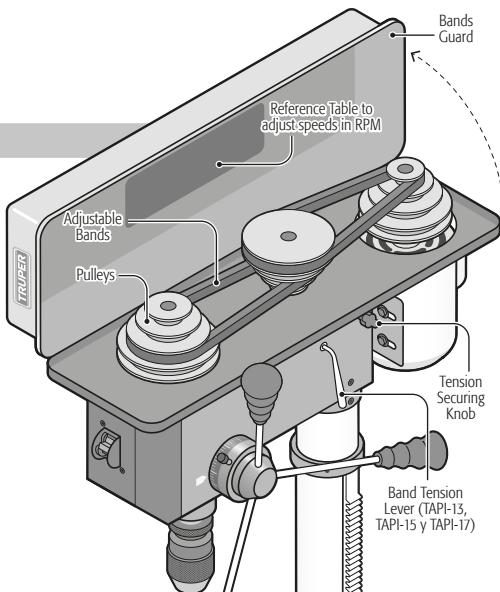
TAPI-8

- To attach a bit open the chuck with the specially designed key and close the chuck with the special key.

Drill Speed Adjustment

CAUTION • Disconnect the drill from the power supply.

- Open the guard bands.
- Loosen the tension fastening knob(s) and push the motor into the chuck direction. The TAPI-13, TAPI-15 and TAPI-17 drills also have a tension lever to loosen the bands.
- Adjust the bands with the pulleys matching the required speed (Refer to the chart 'Speeds in revolutions per minute' on the next page or the reference table located below the bands guard.)
- Close the bands guard.

Reference Table to
adjust speeds in RPM

Adjustable Bands

Pulleys

TRUPER

Bands Guard

Tension Securing Knob

Tension

Band Tension Lever

(TAPI-13,
TAPI-15 y TAPI-17)

Speeds in RPM

TAPI-8

= Pulley



TAPI-13



TAPI-15



TAPI-17



Speeds per material

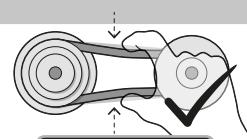
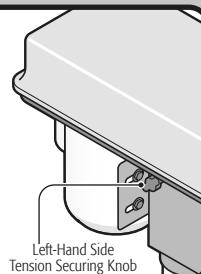
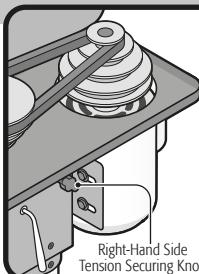
Bit diameter (inch)	Foundry	Special Steel	St 37 Steel	Aluminum	Bronze
1/8"	2 550	1 600	2 230	9 500	8 000
5/32"	1 900	1 200	1 680	7 200	6 000
3/16"	1 530	955	1 340	5 700	4 800
15/64"	1 270	800	1 100	4 800	4 000
9/32"	1 090	680	960	4 100	3 400
5/16"	960	600	840	3 600	3 000
23/64"	850	530	740	3 200	2 650
25/64"	765	480	670	2 860	2 400
7/16"	700	435	610	2 600	2 170
15/32"	640	400	560	2 400	2 000
1/2"	590	370	515	2 200	1 840
9/16"	545	340	480	2 000	1 700
5/8"	480	300	420	1 800	1 500
45/64"	425	265	370	1 600	1 300
25/32"	380	240	335	1 400	1 200
7/8"	350	220	305	1 300	1 100
1"	305	190	270	1 150	950

CAUTION To get a safe and faultless operation, as well as significantly extend the useful life of the drill, a regular and correct maintenance is needed. Make sure the tool is disconnected before inspecting, carrying out maintenance or repairs.

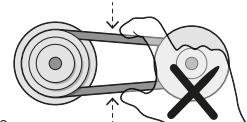
Weekly

Band Tension and Securing Knobs:

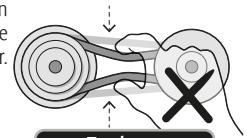
- Check the tension adjustment in the securing knobs in both sides of the drill head (model TAPI-8 only has one knob in the right-hand side of the drill head).



Adequate tension



Too much tension

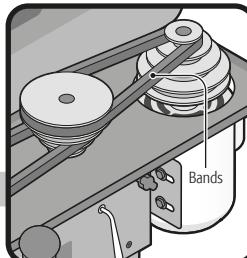
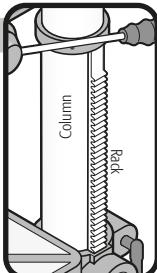


Too loose

Monthly

Column and Rack:

- Lubricate the column using commercial oil.
- Grease the rack with commercial grease (For bearing lubrication).



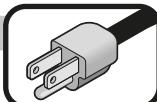
Each six month

Electric system:

- Have a **TRUPER®**

Authorized Service

Center check the drill electric system.



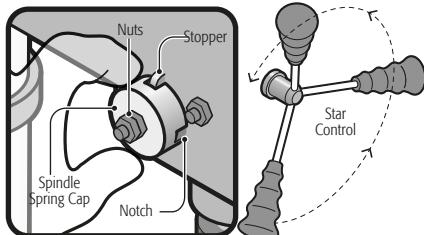
Bands:

- Check the bands inside the drill head are not porous or worn.

When Needed

Cleansing:

- Frequently shake de dust out inside the drill motor. Apply cleaning wax to the drill work bench and column to keep them always clean. Do not remove shavings with your hands. Use a brush.



Adjust tension in the star control:

- Hold the spindle spring cap with one hand. Loosen with your other hand the nuts found in the spring cap. Do not remove the nuts completely out of the screw.
- Pull out the cap while holding it firmly. Turn it around its axis until it matches the drill head stop with the next notch of the spring cap.
- Turn the cap clockwise to loosen tension and counterclockwise to increase tension.
- Verify the notch in the spring cap is in place and then adjust the nuts. The second nut makes friction with the first one (blind nut). These, shall not touch the spring cap when adjusted.

WARNING Too much tension in the star control makes it turn back with force to its original position, which could hit the operator if not cautious enough.

Troubleshooting

TRUPER®

Problem	Cause	Solution
Noise while running.	<ul style="list-style-type: none">The axis is rotating dry.The bit is blunt or secured incorrectly.	<ul style="list-style-type: none">Lubricate the axis.Use a new bit and check the bit adjustment, the chuck and / or the chuck shaft.
"Burnt" bit.	<ul style="list-style-type: none">Wrong speed / fast feed.Residues inside the orifice.Blunt bit.Operating without or scarce coolant.	<ul style="list-style-type: none">Adjust speed / reduce feed.Pull out the bit regularly.Hone or replace bit.Use coolant.
Irregular bit movement.	<ul style="list-style-type: none">Solid material in the work piece.Irregular length of the cutting spiral or irregular angles in the bit.Malformed bit.	<ul style="list-style-type: none">Replace the work piece.Replace the bit or hone again.
Defective bit.	<ul style="list-style-type: none">A support is not being used.	<ul style="list-style-type: none">Fix and splice a wooden board in the back or the work piece.
The bit gives off or jump.	<ul style="list-style-type: none">Malformed bit.Worn supports.Bit is not secured.Defective chuck.	<ul style="list-style-type: none">Replace bit.Replace supports.Secure the bit correctly.Replace chuck.
Impossibility to set the chuck or the chuck axle.	<ul style="list-style-type: none">There is dust, grease or oil in the inner conical surface of the chuck or axis.	<ul style="list-style-type: none">Clean the surfaces.Avoid putting grease in the surfaces.
The motor is not starting.	<ul style="list-style-type: none">Motor is not connected correctly.Defective fuse.	<ul style="list-style-type: none">Inspection in a TRUPER® Authorized Service Center.
Motor overheating and lack of energy.	<ul style="list-style-type: none">Overloaded motor.Voltage drop.The motor is not connected correctly.	<ul style="list-style-type: none">Disconnect immediately and call a TRUPER® Authorized Service Center.Inspection in a TRUPER® Authorized Service Center.
Low working pressure.	<ul style="list-style-type: none">Irregular or warped work piece.Inaccurate horizontal position of the work piece support.	<ul style="list-style-type: none">Adjust the work piece, prevent movement without damaging it.Adjust the work piece support.
The axis bushing is not returning to the original position.	<ul style="list-style-type: none">The axis recovery spring is not working correctly.A securing shank is being inserted.	<ul style="list-style-type: none">Check the axis recovery spring, replace if necessary in a TRUPER® Authorized Service Center.Remove the securing shank.
The axis is not moving downwards.	<ul style="list-style-type: none">A securing shank is being inserted.The depth scale lock is not being released.	<ul style="list-style-type: none">Remove the securing shank.Release the depth scale lock.
Axis support overheating.	<ul style="list-style-type: none">Worn supports.The support pre-tension is too high.Working in high speed too long.	<ul style="list-style-type: none">Replace in a TRUPER® Authorized Service Center.Reduce the support free space (supports, bearing, cone)Reduce the drill revolutions / feed.
The axis is squeaking while working with working pieces with a rough surface.	<ul style="list-style-type: none">The free space in the support is to wide.The axis is moving up and down.The adjusting cotter is loose.The bushing is loose.The tool is dull.The work piece is loose.	<ul style="list-style-type: none">Adjust the support free space or replace the support.Adjust the free space in the support.Adjust the cotter with a screw to control the free space. Tighten back.Hone the bit or replace.Support the work piece correctly.



Authorized service centers

TRUPER®

In the event of any problem contacting a TRUPER Authorized Service Center, please see our webpage WWW.TRUPER.COM to get an updated list, or call our toll-free numbers **800 690-6990** or **800-018-7873** to get information about the nearest Service Center.

AGUASCALIENTES	DE TODO PARA LA CONSTRUCCIÓN GRAL. BARRAGÁN #1201, COL. GREMIAL, C.P. 20030, AGUASCALIENTES, AGS. TEL.: 449 994 0537
BAJA CALIFORNIA	SUCRASL TIJUANA AV. LA ENCANTADA, LOTE #5, PARQUE INDUSTRIAL EL FLORIDO II, C.P. 22244, TIJUANA, B.C. TEL.: 664 969 5100
BAJA CALIFORNIA SUR	FIX FERRETERÍAS FELIPE ÁNGELES ESQ. RUIZ CORTÍNEZ S/N, COL. PUEBLO NUEVO, C.P. 23670, CD. CONSTITUCIÓN, B.C.S. TEL.: 613 132 1115
CAMPECHE	TORNILLERÍA Y FERRETERÍA AAA AV. ALVARO OBREGÓN #524, COL. ESPERANZA C.P. 24080 CAMPECHE, CAMP. TEL.: 981 815 2808
CHIAPAS	FIX FERRETERÍAS AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700, TAPACHULA, CHIS. TEL.: 962 118 4083
CHIHUAHUA	SUCRASL CHIHUAHUA AV. SILVESTRE TERRAZAS #128-11, PARQUE INDUSTRIAL BAFAR, CARRETERA MÉXICO CUAHTEMOC, C.P. 31415, CHIHUAHUA, CHIH. TEL.: 614 434 0052
CIUDAD DE MÉXICO	FIX FERRETERÍAS EL MONSTRUO DE CORREGIDORA, CORREGIDORA # 35, COL. CENTRO, C.P. 06060, CUAHTEMOC, CDMX. TEL: 55 5522 5031 / 5522 4861
COAHUILA	SUCRASL TORREÓN CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL ORIENTE, C.P. 27278, TORREÓN, COAH. TEL.: 871 209 68 23
COLIMA	BOMBAS Y MOTORES BYMTECA DE MANZANILLO BLVD. MIGUEL DE LA MADRID #190, COL. 16 DE SEPTIEMBRE, C.P. 28239, MANZANILLO, COL. TEL.: 314 332 1986 / 332 8013
DURANGO	TORNILLOS ÁGUILA, S.A. DE C.V. MAZURO #200, COL. LUIS ECHEVERRÍA, DURANGO, DGO.TEL.: 618 817 1946 / 618 818 2844
ESTADO DE MÉXICO	SUCRASL CENTRO JILOTEPEC PARQUE INDUSTRIAL # 1, COL. PARQUE INDUSTRIAL JILOTEPEC, JILOTEPEC, EDO. DE MÉX. C.P. 54257 TEL.: 761 782 9101 EXT. 5728 Y 5102
GUANAJUATO	CIA. FERRETERA NUEVO MUNDO S.A. DE C.V. AV. MÉXICO - JAPÓN #225, CD. INDUSTRIAL, C.P. 38010, CELAYA, GTO. TEL.: 461 617 7578 / 79 / 80 / 88
GUERRERO	CENTRO DE SERVICIO ECLIPSE CALLE PRINCIPAL MZ.1 LT. 1, COL. SANTA FE, C.P. 39010, CHILPANCINGO, GRO. TEL: 747 478 5793
HIDALGO	FERREPRECIOS S.A. DE C.V. LIBERTAD ORIENTE #304 LOCAL 30, INTERIOR DE PASAJE ROBLEDO, COL. CENTRO, C.P. 43600, TULANCINGO, HGO. TEL.: 775 753 6615 / 775 753 6616
JALISCO	SUCRASL GUADALAJARA AV. ADOLFO B. HORN # 6800, COL: SANTA CRUZ DEL VALLE, C.P.: 45655, TLAJOMULCO DE ZÚÑIGA, JAL. TEL.: 33 3606 5285 AL 90
MICHOACÁN	FIX FERRETERÍAS AV. PASEO DE LA REPÚBLICA #3140-A, COL. EX-Hacienda DE LA HUERTA, C.P. 58050, MORELIA, MICH. TEL.: 443 334 6858

MORELOS	FIX FERRETERÍAS CAPITÁN ANZURES #95, ESQ. JOSÉ PERDIZ, COL. CENTRO, C.P. 62740, CUATLA, MOR. TEL.: 735 352 8931
NAYARIT	HERRAMIENTAS DE TEPIC MAZATLÁN #117, COL. CENTRO, C.P. 63000, TEPIC, NAY. TEL.: 311 258 0540
NUEVO LEÓN	SUCRASL MONTERREY CARRETERA LAREDO #400, 1B MONTERREY PARKS, COLONIA PUERTA DE ANÁHUAC, C.P. 66052, ESCOBEDO, NUEVO LEÓN, TEL.: 81 8352 8791 / 81 8352 8790
OAXACA	FIX FERRETERÍAS AV. 20 DE NOVIEMBRE #910, COL. CENTRO, C.P. 68300, TUXTEPEC, OAX. TEL.: 287 106 3092
PUEBLA	SUCRASL PUEBLA AV. PERIFÉRICO #2-2, SAN LORENZO ALMECATLA, C.P. 72710, CUATLACINGO, PUE. TEL.: 222 282 8282 / 84 / 85 / 86
QUERÉTARO	ARU HERRAMIENTAS S.A. DE C.V. AV. PUERTO DE VERACRUZ #110, COL. RANCHO DE ENMEDIO, C.P. 76842, SAN JUAN DEL RÍO, QRO. TEL.: 427 268 4544
QUINTANA ROO	FIX FERRETERÍAS CARRETERA FEDERAL MZ. 46 LT. 3 LOCAL 2, COL. EJIDAL, C.P. 77710 PLAYA DEL CARMEN, Q.R. TEL.: 984 267 3140
SAN LUIS POTOSÍ	FIX FERRETERÍAS AV. UNIVERSIDAD #1850, COL. EL PASEO, C.P. 78320, SAN LUIS POTOSÍ, S.L.P. TEL: 444 822 4341
SINALOA	SUCRASL CULIACÁN AV. JESÚS KUMATE SUR #4301, COL. HACIENDA DE LA MORA, C.P. 80143, CULIACÁN, SIN. TEL.: 667 173 9139 / 173 8400
SONORA	FIX FERRETERÍAS CALLE 5 DE FEBRERO #517, SUR LT. 25 MZ. 10, COL. CENTRO, C.P. 85000, CD. OBREGÓN, SON. TEL.: 644 413 2392
TABASCO	SUCRASL VILLAHERMOSA CALLE HELIO LOTES 1, 2 Y 3 MZ. #1, COL. INDUSTRIAL, 2A ETAPA, C.P. 86010, VILLAHERMOSA, TAB. TEL.: 993 553 7244
TAMAULIPAS	VM ORINGS Y REFACCIONES CALLE ROSITA #527 ENTRE 20 DE NOVIEMBRE Y GRAL. RODRÍGUEZ, FRACC. REYNOSA, C.P. 88780, REYNOSA, TAMS. TEL.: 899 726 7552
TLAXCALA	SERVICIOS Y HERRAMIENTAS INDUSTRIALES PABLO SIDAR #132, COL. BARRIO DE SAN BARTOLOMÉ, C.P. 90970, SAN PABLO DEL MONTE, TLAX. TEL.: 222 271 7502
VERACRUZ	LA CASA DISTRIBUIDORA TRUPER BLVD. PRIMAVERA. ESQ. HORTENSIA S/N, COL. PRIMAVERA C.P. 93308, POZA RICA, VER. TEL.: 782 823 8100 / 826 8484
YUCATÁN	SUCRASL MÉRIDA CALLE 33 #600 Y 602, LOCALIDAD ITZINCAB Y MULSAY, MPIO. UMÁN, C.P. 97390, MÉRIDA, YUC. TEL.: 999 912 2451

Code	Model	Brand
16174	TAPI-8	TRUPER®
16178	TAPI-13	
16180	TAPI-15	
16182	TAPI-17	

Warranty. Duration: 1 year. Coverage: parts, components and workmanship against manufacturing or operating defects, except if used under conditions other than normal; when it was not operated in accordance with the instructive; was altered or repaired by personnel not authorized by **TRUPER®**. To make the warranty valid, present the product, stamped policy or invoice or receipt or voucher, in the establishment where you bought it or in Corregidora 35, Centro, Cuauhtémoc, CDMX, 06060, where you can also purchase parts, components, consumables and accessories. It includes the costs of transportation of the product that derive from its fulfillment of its service network. . Phone number **800-018-7873**. Made in China. Imported by Truper, S.A. de C.V. Parque Industrial 1, Parque Industrial Jilotepec, Jilotepec, Edo. de Méx. C.P. 54257, Phone number 761 782 9100.



Stamp of the business. Delivery date:



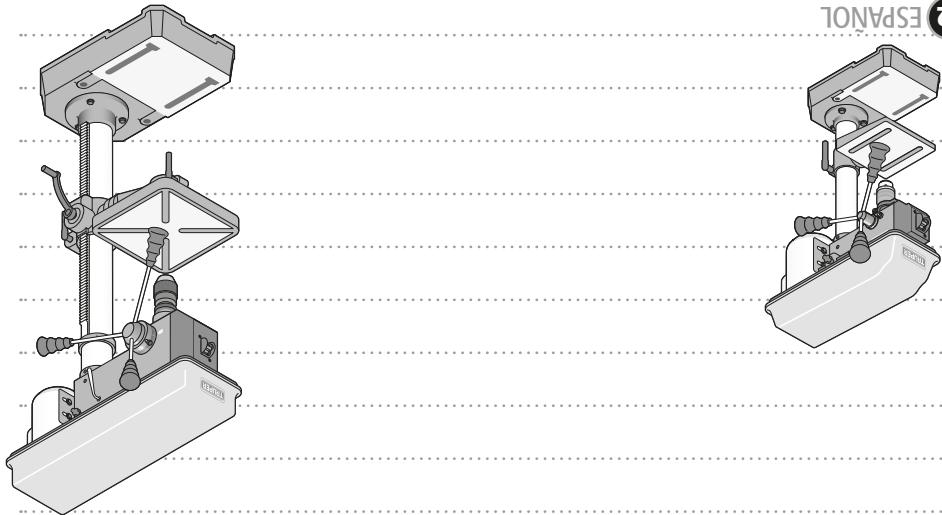
Sello del establecimiento comercial. Fecho de entrega:

Caractería. Duración: 1 año. Cobertura: piezas, componentes y marco de obra contra defectos de fabricación ofuncionamiento, excepto si se usó en condiciones distintas a las normales; cuando no fue operado dentro de su red de servicio. Tel. 800-018-7873. Made in China. Importador TRUPER, S.A. de C.V. Para que su red de servicios, incluye los gastos de transportación del producto que devra ser cumplimentado de acuerdo con las normas y acuerdos, incluyendo los gastos de embalaje para partes, componentes, etc.

16174	Modelo	McGraw	TRUPER.
16178	TAPI-8	16174	
16180	TAPI-13	16178	
16182	TAPI-15	16180	
16184	TAPI-17	16182	

**garantía
poliza de**

TRUPEER®



TRUPER®

Solución

Problema Causa

- No se utiliza soporte.
- Broca de efecto sosa.
- Fijé y empalme una tabla de madera en la parte inferior de la pieza de tablero.

- Longitud irregular en el espiral cortante o anulus irregulares en la pieza de broca.
- Broca de deformada.

- Operando sin o con escaso líquido refrigerante
- Material sólido en pieza de trabajo

- Ajuste la velocidad / aminoácido la alimentación.
- Extraiga la bocaza de manera regular.
- Afíle o reemplace la bocaza.

- Broca "d quemada".
- Velocidad incorrecta / alimentación rápida.
- Residuos del interior del orificio.
- Broca "embotada".

- Utilice broca y revisé ajuste de la broca.
- Limpieza de la pieza.

- Broca embotada o esita assegurada de man incorrecta.

Lubricación del eje.

Ruidido durante trabajo. • Giro del ele seco.

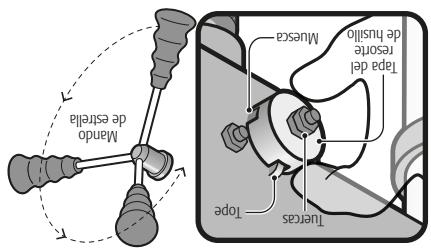
ပြည်သူ့လုပ်ငန်း

Problema Causa

1 KUPE

Solutions are proud individuals

A ATENCIÓN Para lograr una operación segura y sin fallas, así como extender significativamente la vida útil del taladro, es esencial un mantenimiento adecuado y regular. Asegúrese de tener desconectada la herramienta antes de proceder a su inspección, mantenimiento o reparación.

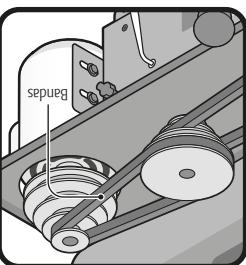


- Apriete la tensión de los mandos de estrella.
- Sostenga la tapa hasta que las viñetas en la tapa del resorte coincidan con la otra.
- Jale la tapa del taladro con la propia fuerza que haya coincidido el tope de la alrededor de su tapa.
- Cierre la tapa en dirección de las manecillas del reloj para apretar la capa de la tapa del taladro con la tapa del resorte.
- Tire de la tapa del taladro con la propia fuerza que haya coincidido el tope de la tapa del resorte.
- Deje que la tensión de los mandos de estrella permanezca.

Limpieza:
• Sacuda la tapa del resorte de lahusillo con una mano y afloje las tuercas que se encuentran en la tapa del resorte con la otra mano.

Cuidado sea necesario

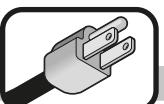
- Revise que las bandas dentro de la carcasa del taladro no se encuentren porosas o desgastadas.
- Revise que las bandas dentro de la carcasa del taladro no se encuentren porosas o desgastadas.



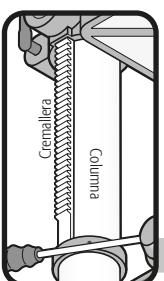
- Revise el sistema eléctrico del taladro.
- Haga que un Centro de Servicios Autorizado revise el sistema eléctrico del taladro.

Cada seis meses

- Revise que las bandas se encuentren debidamente tensas y correctamente ajustadas. La tensión de la banda se corregirá si se aprieta la tensión de la banda de forma incorrecta.
- Revise que las bandas se encuentren debidamente tensas y correctamente ajustadas. La tensión de la banda se corregirá si se aprieta la tensión de la banda de forma incorrecta.



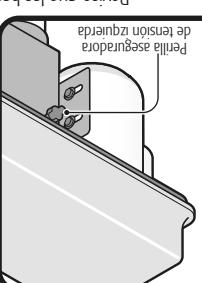
- Encienda el motor.



- Lubrique la columna y el mecanismo de arranque.
- Coloque la columna en la carcasa del taladro.
- Engrase la carcasa del mecanismo de arranque con grasa lubricante.
- Encienda el motor.

Mensualmente

- Revise el ajuste de la tensión de la banda Y. Ajuste la tensión de la banda Y de acuerdo con las instrucciones de la página 10.
- Revise el ajuste de la tensión de la banda de la estrella. Ajuste la tensión de la banda de la estrella de acuerdo con las instrucciones de la página 10.



- Revise la tensión de la banda Y.
- Revise la tensión de la banda de la estrella.
- Revise la tensión de la banda de la estrella.
- Revise la tensión de la banda de la estrella.
- Revise la tensión de la banda de la estrella.
- Revise la tensión de la banda de la estrella.

Semanalmente

Inspección y mantenimiento

TRUPER®

Diametro de la broca (mm)	Aero	especial	St 37	Aluminio	Bronce
3	2550	1 600	2 230	9 500	8 000
4	1 900	1 200	1 680	7 200	6 000
5	1 530	955	1 340	5 700	4 800
6	1 270	800	1 100	4 800	4 000
7	1 090	680	960	4 100	3 400
8	960	600	840	3 600	3 000
9	850	530	740	3 200	2 650
10	765	480	670	2 860	2 400
11	700	435	610	2 600	2 170
12	640	400	560	2 400	2 000
13	590	370	515	2 200	1 840
14	545	340	480	2 000	1 700
15	500	300	420	1 800	1 500
16	480	300	480	2 000	1 500
17	425	265	370	1 600	1 300
18	380	240	370	1 400	1 200
19	350	220	305	1 300	1 100
20	350	240	335	1 400	1 300
21	305	220	270	1 150	950
22	220	220	270	1 150	950
23	25	25	305	305	25

Velocidades indicadas por material (r/min)

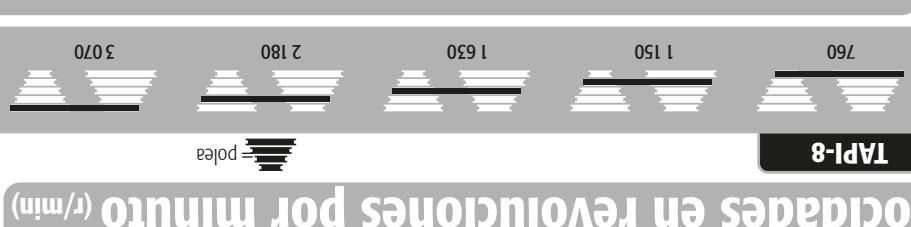
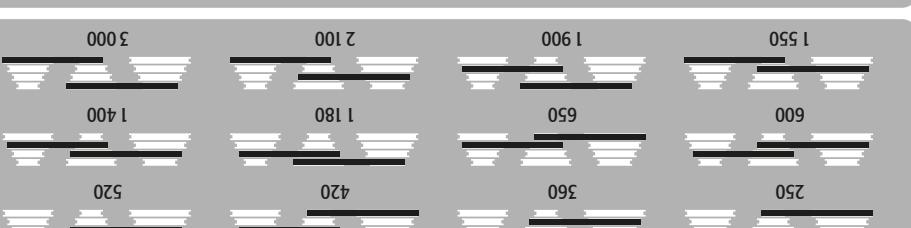
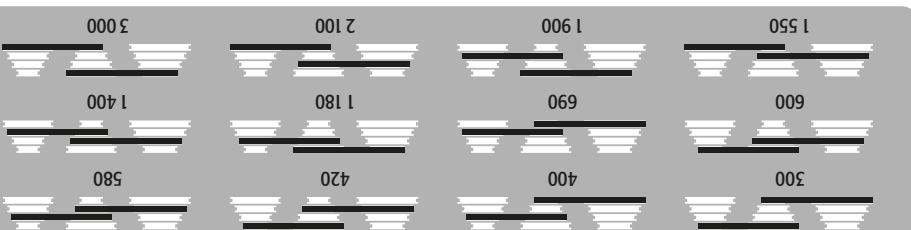
TAPI-17

TAPI-15

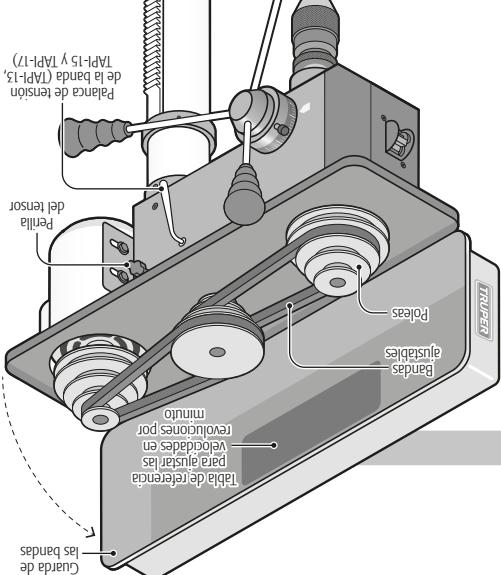
TAPI-13

TAPI-8

=Polea

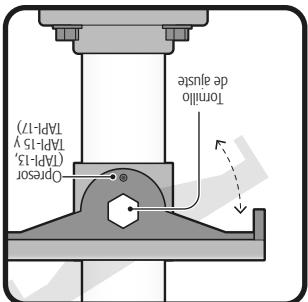


Velocidades en revoluciones por minuto (r/min)



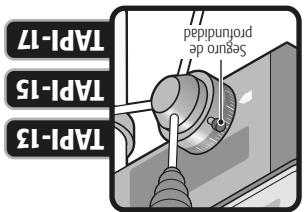
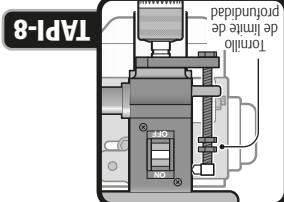
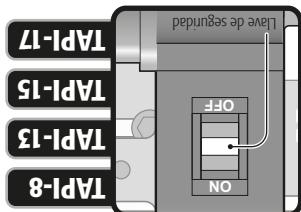
Ajuste de velocidad del taladro

- Utiliza a ajustar firmemente los tornillos.
 - Ajuste el anclaje que se requiere, por medio de la opresor (TA-PL-13, TA-PL-15 y TA-PL-17).
 - Ajuste los tornillos de ajuste y saque el tornillo
 - Utiliza a ajustar firmemente los tornillos.
 - Ajuste el tornillo de la corriente eléctrica.
 - Ajusta la fuerza de las bandas.
 - Ajusta los tornillos de la dirección del motor en la dirección del buje.
 - Utiliza los tornillos de la dirección del buje para apretar las bandas con taladros TA-PL-13, TA-PL-15 y TA-PL-17 sujetando la parte superior de la pieza.
 - Utiliza las bandas en las poleas que correspondan a la velocidad requerida (ver recuadro "Velocidades en la figura 1").
 - Utiliza las bandas en las poleas que correspondan a la velocidad requerida (ver recuadro "Velocidades en la figura 1").
 - Cierre la guarda de las bandas.



Inclinación de la mesa

- Desarrollar el seguimiento y gŕe el collar
- Ajusate el tornillo de límite a la ON (Encendido).
- Ayude el solido balafra hasta que el collar se apagueado.
- OFF (Apagado).
- Profundidad de taladro requerida El efe solo balafra hasta esa profundidad.
- Remover lo lock (quitar para bloquear)

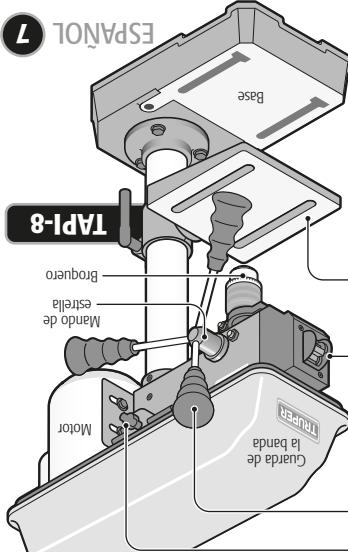


Cuando se van a pedir otras formas de la misma pronunciación, se utiliza el seguido de escala de pronunciada.

Seguro de escala de profundidad

Puesta en marcha

TRUPER.

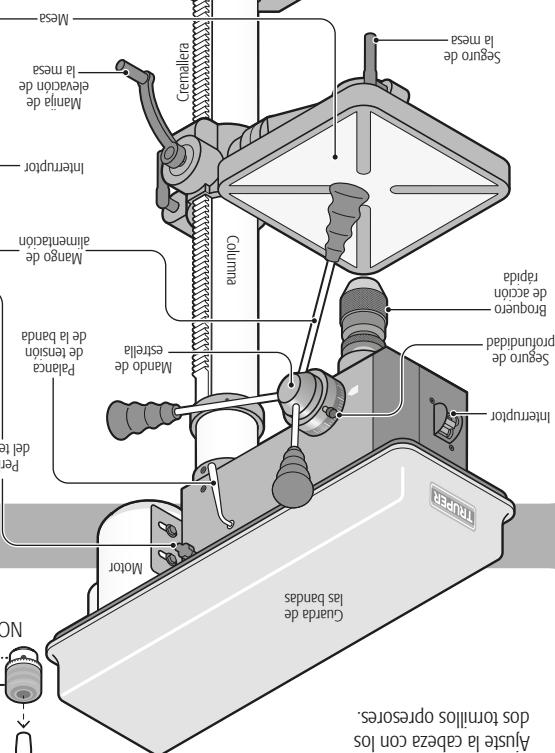


TAPI-8

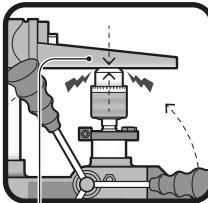
TAPI-17

TAPI-15

TAPI-13

**Partes**

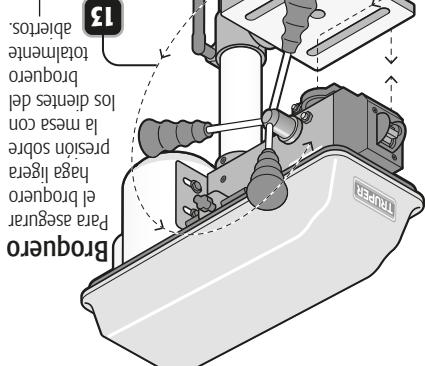
NOTA: El broqueo se mantiene en posición, realizando una ligera presión al momento de ensamblar. Es usar una llave de segundada para desenganchar la mesa.



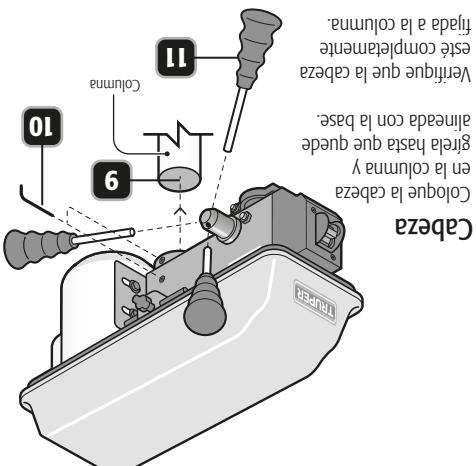
13



Broqueo



Bandera



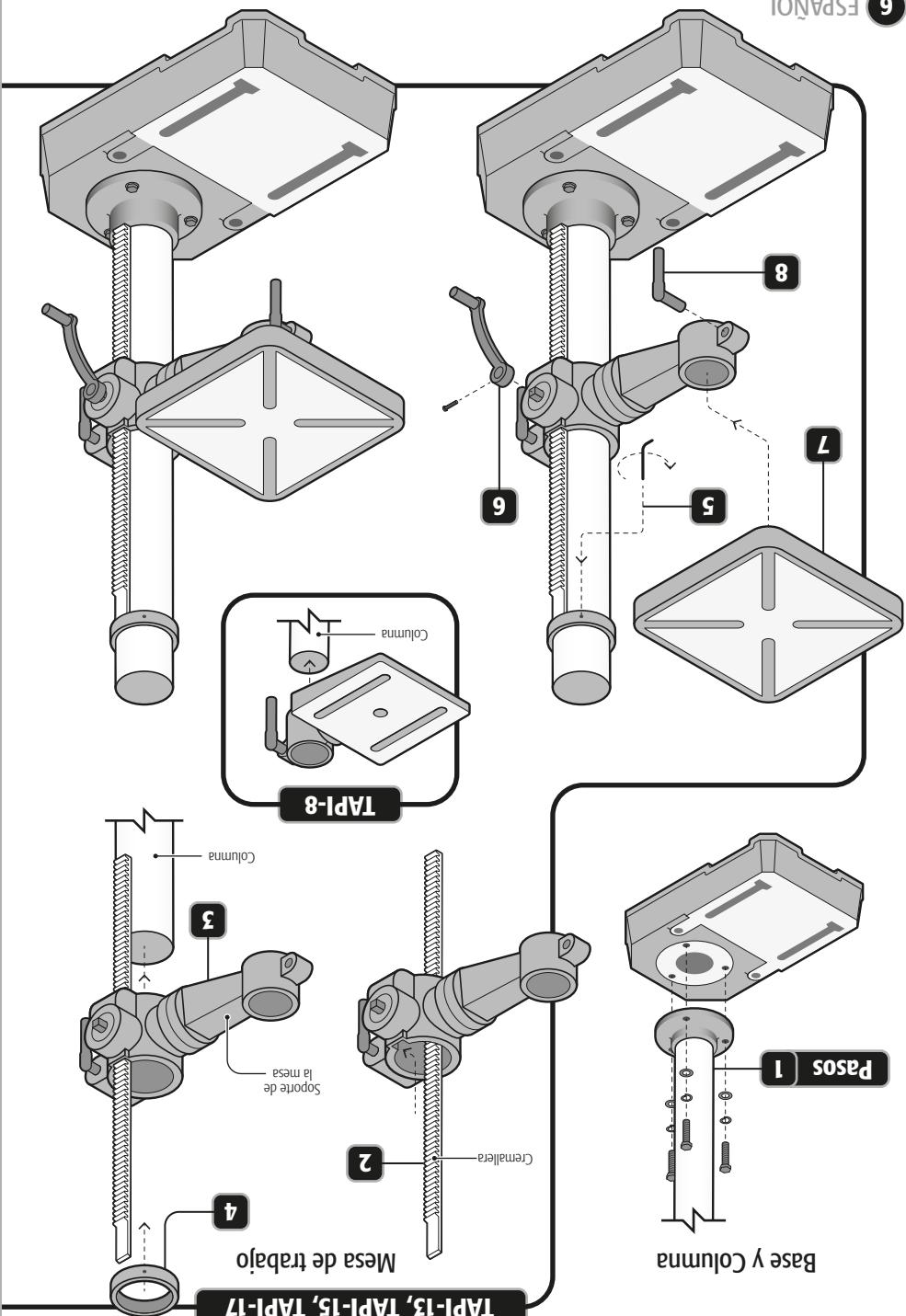
Cabeza

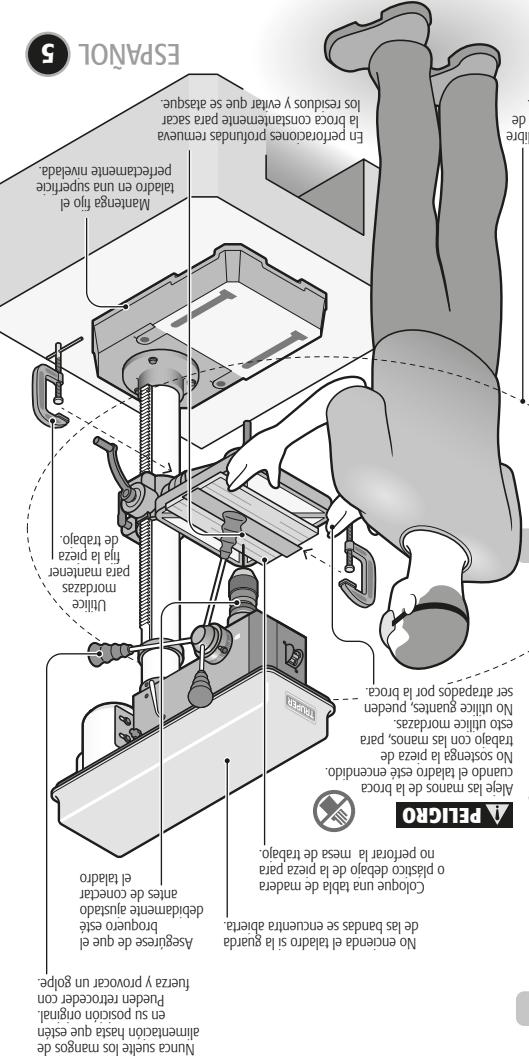
Ajuste la cabeza con los tornillos operadores.

Vuelva la cabeza a la columna.

Coloque la cabeza en la columna y alineeada con la base.

Grilea hasta que quede este completamente alineada con la base.





ATENCIÓN

Inmediatamente despues de taladrar. Esprea que se enfríen para manipularas.

■ Las perforaciones

en contra de usted y no hacia usted.

PROYECTOS

taladro provocando un contra golpe. Para reducir esta posibilidad fue firmemente la plieza de traerlo a la mesa

de la rotación del

ADVERTENCIA • Virtusas o incluso la pieza de del arce donde se incluye el cuadro que muestra los resultados.

UOLOS Residuos

A D V E R T E N C I A • Utilice el material o los residuos broca en movimiento pude causar lesiones graves.

cionalamiento. La

PELIGRO • Nunca se incline por debajo o a los

www.wiley.com/go/robinson/psychiatry

Mathematics Grade 10

Antes de operar el taladro

- El Díptico apoyado sobre un tablón o en el suelo, así se reduce el riesgo de lesiones graves y agiliza el traslado.

• No intentar utilizar brocas que excedan la capacidad del hueso.

• No usar brocas que excedan 175 mm (7") o se extiendan 150 mm (6") por debajo del borde.

• Nunca use tambores de lila más allá de 1 800 l/min.

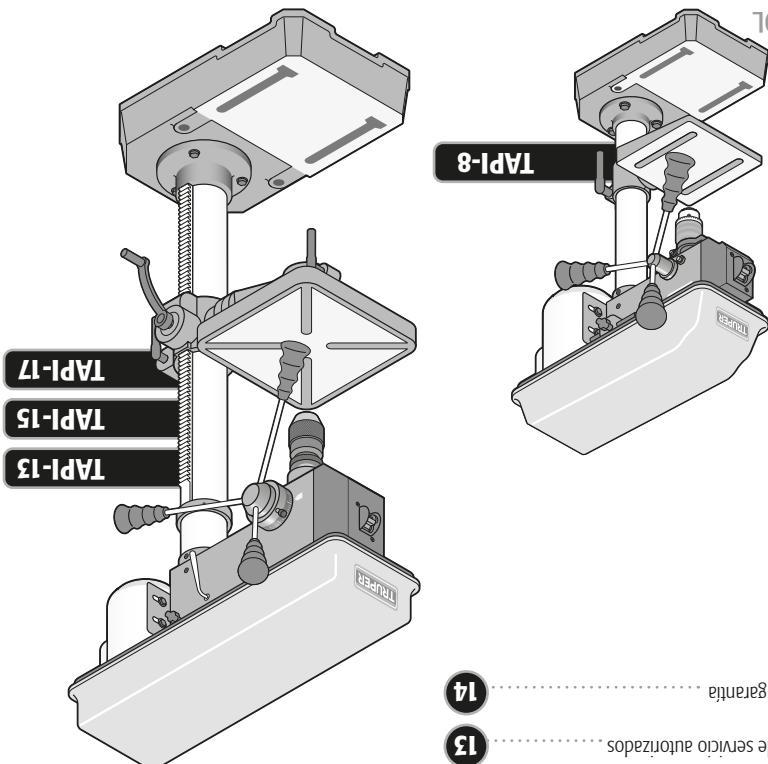
• En perforaciones de diámetro grande nunca use cortadoras de mís de una pieza.

• Nunca utilice cepillos de alambre, cuchillas circulares, cuñas para cortar ni chumbas rotativas para cepillar.

• No use brocas con puntas tipo tornillo. Estas brocas harán que la pieza de trabajo se eleve de la mesa y comience a girar, lo que puede provocar lesiones graves.

Elija la DROCA apropiada

para uso de taladros de banco y pisos



Para poder sacar el máximo provecho de la herramienta, alargar su vida útil, hacer válida la garantía en caso de ser necesario y evitar riesgos o lesiones graves, es fundamental leer este instructivo por completo antes de usar la herramienta.

ATENCIÓN

Indice

- 3 Especificaciones técnicas.
- 4 Advertencias generales de seguridad para herramientas eléctricas.
- 5 Advertencias generales de seguridad para uso de tablados de banco y de piso.
- 6 Velocidades en revoluciones por minuto.
- 7 Partes.
- 8 Puesta en marcha.
- 9 Ensamble.
- 10 Inspección y mantenimiento.
- 11 Solución de problemas.
- 12 Notas.
- 13 Centros de servicio autorizados.
- 14 Poliza de garantía.

TRUPER®



Lea este instructivo por completo
antes de usar la herramienta.



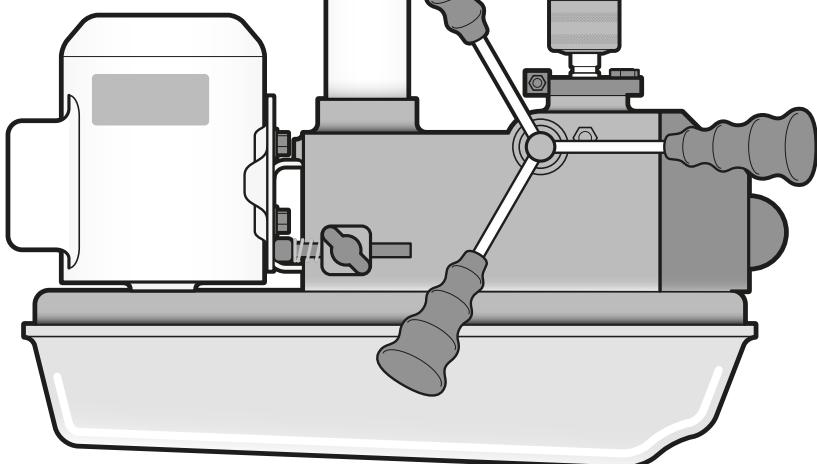
ATENCIÓN

Código Modelos

Este instructivo es para:

16182 TAPL-17
16180 TAPL-15
16178 TAPL-13
16174 TAPL-8

TAPL-8



1/2" y 5/8"
13 mm 16 mm

Taladros de banco Y
de piso con broquero

Instructivo para los

TRUPER®

ESPAÑOL
ENGLISH