POWERNAIL® CO.

Model 1845F Pneumatic PowerStapler™

OPERATION AND MAINTENANCE MANUAL
MANUAL DE OPERACION Y DE MANTENIMIENTO
MANUEL D'INSTRUCTIONS ET D'ENTRETIEN

WARNING

Read this manual before you use this Powerstapler®. Follow all safety warnings and instructions. If you are uncertain about the operation of the stapler, call us directly at 1-800-323-1653 for assistance or contact the closest Powernail Dealer for help. Please retain this information for future reference.

REV 2024.08.14

INTRODUCTION

The Model 1845F trigger-pull stapler is designed to bring Powernail quality and flooring expertise to a pneumatic stapler. The Model 1845F is designed for use with 1" and 1-1/4", 20 gauge L-Cleat Powernails®. The Model 1845F nails from 3/8" to 5/8" flooring through the use of a FLEX adjustable foot assembly that can be adjusted to fit different flooring profiles.

INDEX

Index..... 2
Warranty..... 2
Operating the tool.....4-6
FLEX Foot Adjustment...5
Air Supply..... 6
Safety Labels.....7
Maintenance.....7
Clearing a jam..... 8
Troubleshooting Chart... 9
Schematic / Parts List.. 10-11
Nail Depth Chart.....12
Phone Support..... 12
Web Site.....12
Powernail Company Info 12

LIMITED WARRANTY

POWERNAIL® Company, Inc. warrants to its customer, and to the first end-use purchaser of POWERNAIL Model 1845F POWERSTAPLER purchased from an authorized POWERNAIL distributor, that each serialized manufactured Model 1845F POWERSTAPLER by POWERNAIL®, for a period of 12 months from the date of purchase; shall be free of defects in materials and workmanship and will meet POWERNAIL'S specifications in effect at the time of product shipment. POWERNAIL will repair or replace, at its option, any Model 1845F POWERSTAPLER that does not conform to this warranty. Claims must be made no later than fifteen (15) days after the end of the warranty period. POWERNAIL will perform all repair or replacements itself or through its authorized distributors. POWERNAIL is not responsible for shipping, labor or other direct or indirect costs. Damage caused by abuse, misuse, unusual or excessive wear is excluded. Repair or modification of the Products by unauthorized parties will void this warranty. The customer is responsible for returning Products to POWERNAIL for verification of nonconformance. Warranties for Products not manufactured by POWERNAIL are limited to warranties provided to POWERNAIL by the manufacturer of such product that are assignable to customer.

THESE WARRANTIES AND REMEDIES ARE EXCLUSIVE OF ALL OTHERS, EXPRESS OR IMPLIED. THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE ARE EXPRESSLY EXCLUDED. IN NO EVENT SHALL POWERNAIL'S LIABILITY FOR A WARRANTY CLAIM EXCEED THE PRICE PAID TO POWERNAIL FOR THE NONCONFORMING PRODUCT, REGARDLESS OF THE FORM OR BASIS OF THE CLAIM OR CAUSE OF ACTION.

SAFETY INSTRUCTIONS

When operating this stapler, the operator and others in the work area should ALWAYS wear approved SAFETY GLASSES, with front and side eye protection. Eye protection will help guard against flying nails and debris, which could cause severe eye injury.

EAR PROTECTION should be used to prevent hearing damage when there are high noise levels in the work area. ALWAYS use ear plugs with a noise reduction rated at 29 db or higher at a construction site.

Do not operate this tool if it does not contain a legible WARNING LABEL.

Noise characteristic values in accordance with ENxx1:
A-weighted single-event sound pressure level at operator's position: LPA, ls94dBA
A-weighted single sound pressure level:LpA,ls,lm89dBA
Vibration characteristic values in accordance with ISO 8662, PART II
Weighted root mean square acceleration 3.2m/s²

Always DISCONNECT THE AIR SUPPLY before making any adjustments, repairing, clearing jams or when the stapler is not in use. Do not use on scaffolding or ladders and disconnect stapler from air supply when transporting between installation areas.

Never attach the female end of a quick disconnect to the stapler. This will trap air inside the stapler and permit it to be discharged. Only the unrestricted male connection should be attached to the stapler.

Stapler requires an air source that can continuously deliver 70 to 120 psi at 3-1/2 cubic feet of air per minute for operation. Normal air pressure should not exceed 120 psi or damage to the stapler and seals may occur. Excess air pressure can cause the stapler to explode. Do not continue to use a tool that leaks air or does not function properly. Notify your nearest Powernail representative if your tool continues to experience functional problems.

To prevent fire or explosion, use only regulated compressed air—do not use bottled gases of any kind (no oxygen or combustible gasses) to power this stapler. Stapler is intended for use installing wood flooring and is not to be used for purposes not specified in the operations manual.

Do not use any staples other than Powernail® PowerStaples which are 18 gauge staples specifically designed for use in any 18 gauge PowerStapler. PowerStaples are available in lengths of 7/8", 1", 1-1/8", 1-1/4", 1-1/2". Contact your Powernail Dealer for the correct PowerStaples for the Model 1845F.

Use only Powernail replacement parts in the repair or maintenance of this stapler. Parts or repair services are available from the manufacturer or from agents authorized by the manufacturer. Repairs should be carried out only by trained service personel in the field of fastener driving tools who will observe proper safety controls while performing maintenance. Service personel should be qualified to assess the safe working condition of fastener driving tools.

Always make sure stapler is empty of staples before connecting air hose, so as to prevent any accidental discharge from occurring. ONLY CONNECT AIR TO AN UNLOADED STAPLER.

Do not depress the trigger when loading. If the fasteners are jammed, disconnect the tool from the air supply before you remove the jammed staples.

Never place any part of the body in the discharge path of the Stapler when air is connected to the

stapler. Never point the tool at yourself or others, even if the tool is not loaded. For safety, keep out of reach of children. Never leave the stapler unattended while it is connected to an air supply. Never disable, clamp or tape the safety trigger in an activated position.

Do not fire into hard materials or attempt to use on hard or brittle material such as concrete, steel or tile. Before using this tool, carefully check that all parts are working correctly. Do not use the tool if it is not operating correctly, check for causes and adjust as necessary for proper operation. When not in use, the tool should be cleaned, fully assembled and then stored in a dry location. This will extend the life of the tool and reduce any oxidation.

OPERATION

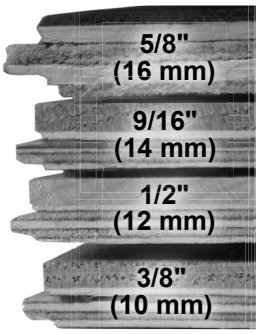
The Model 1845F fastens down flooring from 3/8” to 5/8” using the Powernail FLEX adjustable foot assembly that can be adjusted to fit different flooring profiles.

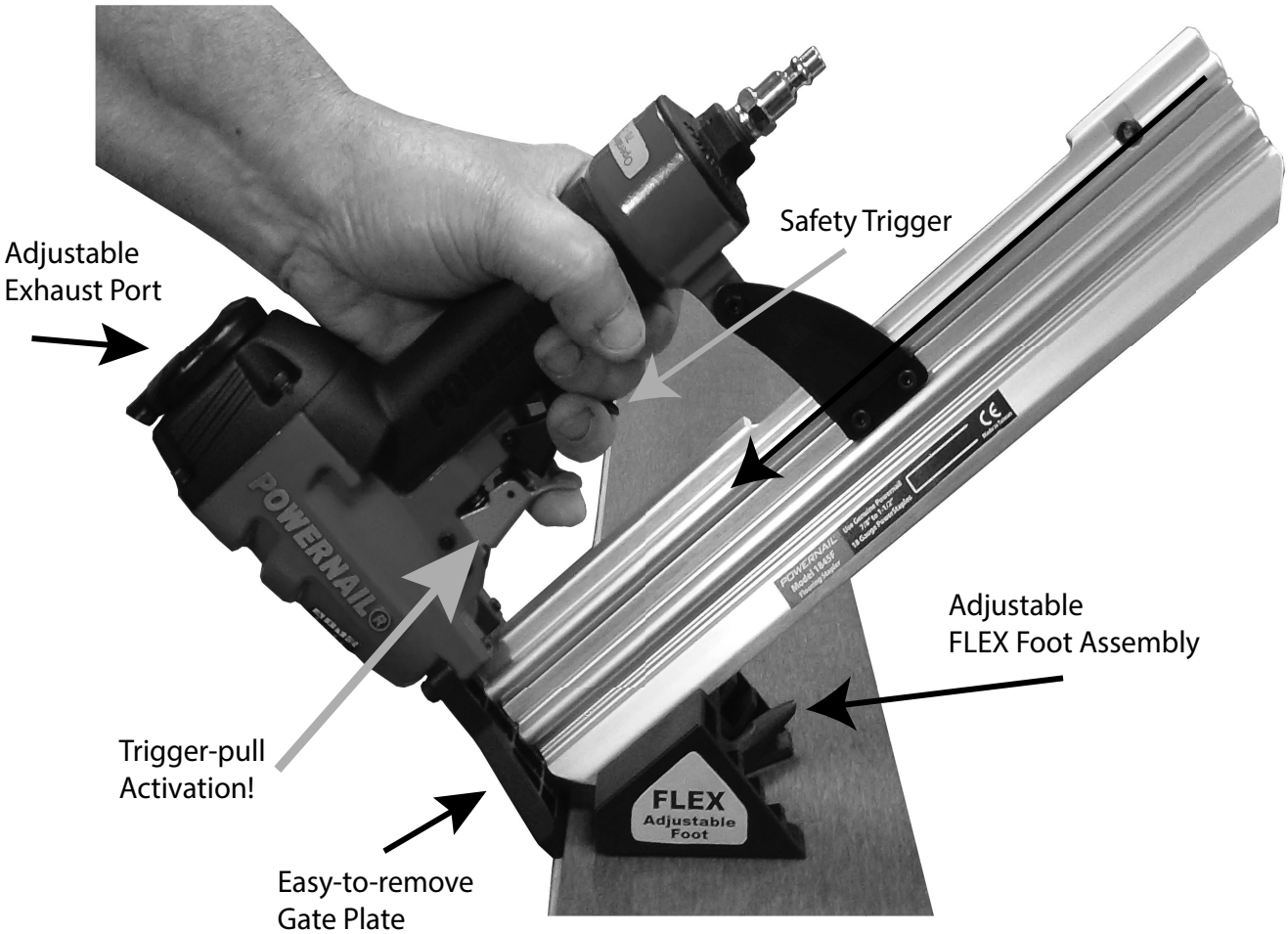
To use the Model 1845F, properly position the tool on the flooring plank *(See picture below)*. Pull up and hold the black safety trigger to activate the orange firing trigger. The stapler will drive and set the nail at the correct angle.

Note: Modifying or altering the stapler in anyway can potentially cause injury and may void the warranty.

The unique body design allows for different grip angles and has an adjustable exhaust port to redirect stapler exhaust.

The Model 1845F installs tongue and groove flooring from 3/8” to 5/8”





FLEX Foot Adjustment

How to adjust your tool's foot to your floor's thickness:

Use the photos on the right for reference:

1.) First loosen the tool's FLEX foot by turning the lever from right to left/counter clockwise. *(See image 1.a)*

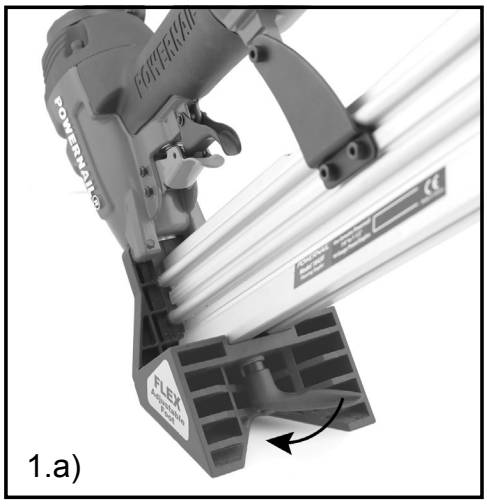
a.) The FLEX foot should now freely slide up-and-down the magazine.

2.) Using a sample of your flooring, slide the FLEX foot back on the channel and set the nose of the stapler securely into the nail pocket *(see image 1.b)*. Important: Orient the board as it is intended to be installed, with the floor board's surface facing up.

3.) While keeping the nose of the stapler/nailer in the nail pocket (resting on top of the tongue and against the shoulder) slide the FLEX foot forward until it lies flat on the flooring surface. *(see image 1.c)*

4.) Now turn the FLEX foot's adjustment lever from left to right (clockwise) to tighten the foot. *(see image 1.d)*

5.) Always test fire into a test piece of flooring to ensure the nail is setting correctly.



1.a)

1.b)

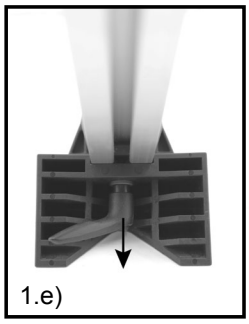
If your FLEX foot is not tight enough:

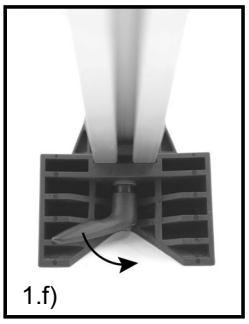
1.) If your tool's foot is not tight enough or if the FLEX foot is not maintaining its "set" position, you may adjust its tightness by pulling OUT on the lever *(see image 1.e)* and turning it from right to left *(see image 1.f)* . Release the lever (make sure that it reseats) and turn from left to right *(see image 1.g)*. This is a form of ratcheting mechanism and does not require any tools to loosen or tighten.

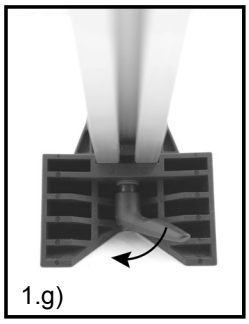
a.) ***If your Flex Foot needs to be loosened, reverse the process listed above.

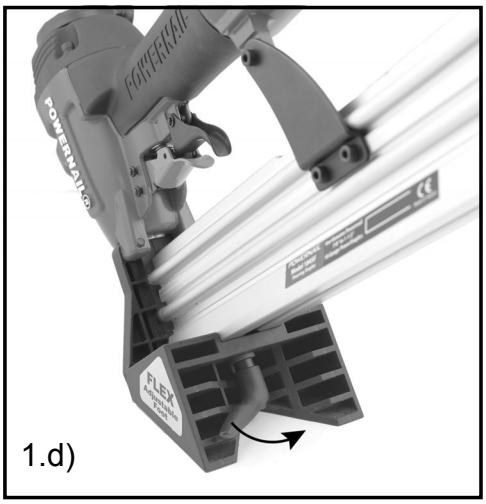
2.) If you are experiencing trouble in making this adjustment please visit www.powernail.com/f-series-adjustment to view a helpful demonstration video.

1.c)


1.e)


1.f)


1.g)



1.d)

CONNECTING THE TOOL TO AN AIR SUPPLY

Your air tool is fully assembled when you receive it. Before using it, attach the air line and desired air system accessories. Be sure the air hose is depressurized when installing or removing adapters to the air line. To prevent misfire, do not connect air to a loaded stapler.

1.) An automatic airline oiler is recommended but oil may be added manually before every operation or after about 8 hours of continuous use.

2.) Place two (2) drops of air-tool oil in the air plug as shown *(Figure 2)*. If you are using an automatic in-line oiler, check and add oil if necessary.

3.) Turn your compressor on and set the compressors pressure regulator to the proper pressure. Normal operating pressure should be adjusted between 70-120 psi based on fastener and wood being used.

4.) Connect the tool to the air supply *(Figure 3)*.

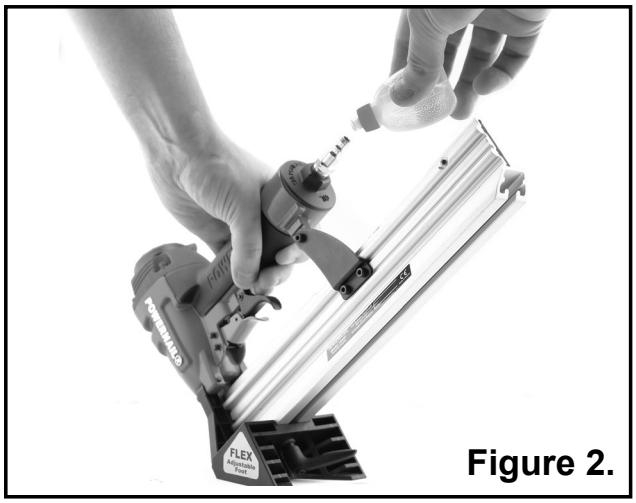


Figure 2.

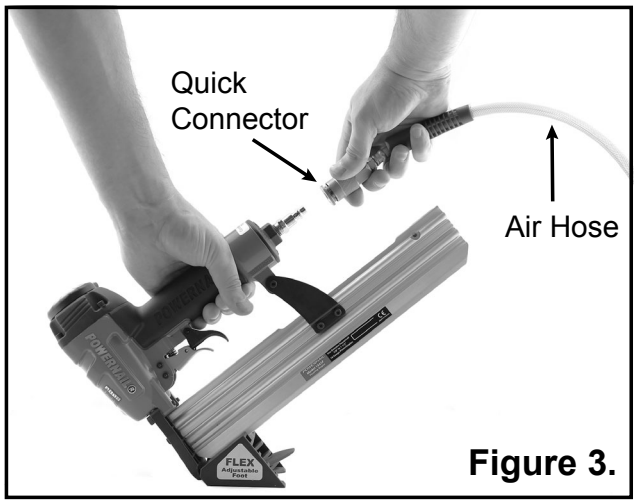
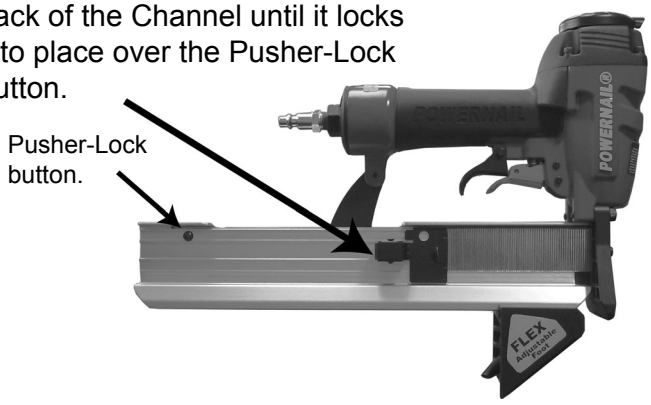


Figure 3.

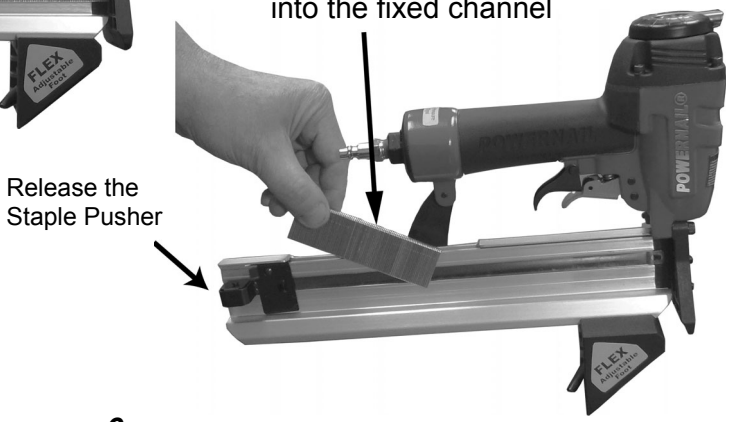
LOADING STAPLES

1.) Pull the Staple Pusher to the back of the Channel until it locks into place over the Pusher-Lock button.



2.) Lay the stick of staples into the fixed channel

Release the Staple Pusher



MAINTENANCE

REGULAR MAINTENANCE

1. Frequent, but not excessive, lubrication is required for best performance. Oil added through the airline connection will lubricate internal parts. An automatic airline oilier is recommended but oil may be added manually before every operation or after about 8 hours of continuous use.

Only a few drops of oil at a time are necessary. Too much oil will collect inside the tool and be blown out during the exhaust cycle. ONLY USE PNEUMATIC TOOL OIL. Do not use detergent oil or additives, as these lubricants will cause accelerated wear to the seals in the tool.

2. Use a small amount of oil on all moving surfaces and pivots.

3. Dirt and water in the air supply are major causes of pneumatic tool wear. Use a filter/oiler for better performance and longer life. The filter must have adequate flow capacity for the specific application.

4. Keep tools clean for better and safer performance. Use nonflammable cleaning solutions only if necessary. CAUTION: Soaking the tool may damage O-rings and other tool parts.

STAPLER SAFETY LABELS

Operating Pressure
70 - 120 psi

CLEARING A JAM

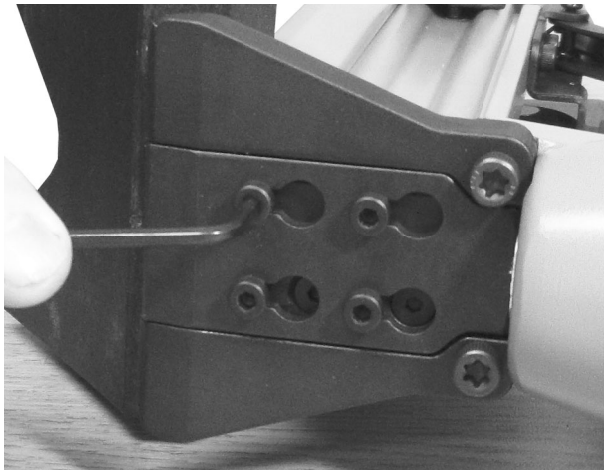
Disassembly: (See pictures below)

1) Loosen the 4 M4 screws (35) with a 3mm allen wrench.
2) Slide the gate plate down until it is free from the nose..
3) Lift the gate plate (36) off.
4) Inspect and clear any debris from the drive blade (13A) and its path.

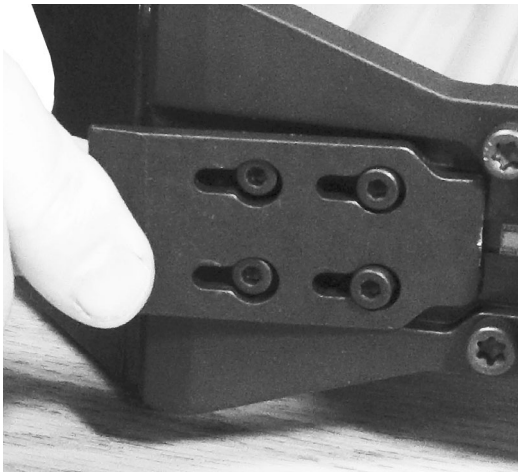
Reassembly:

1) Install the the gate plate (36) over the four M4 screws (35).
2) Slide the gate plate upwards as far as it go.
3) Tighten the four M4 screws (35).
4) Unit is ready for funtional testing.

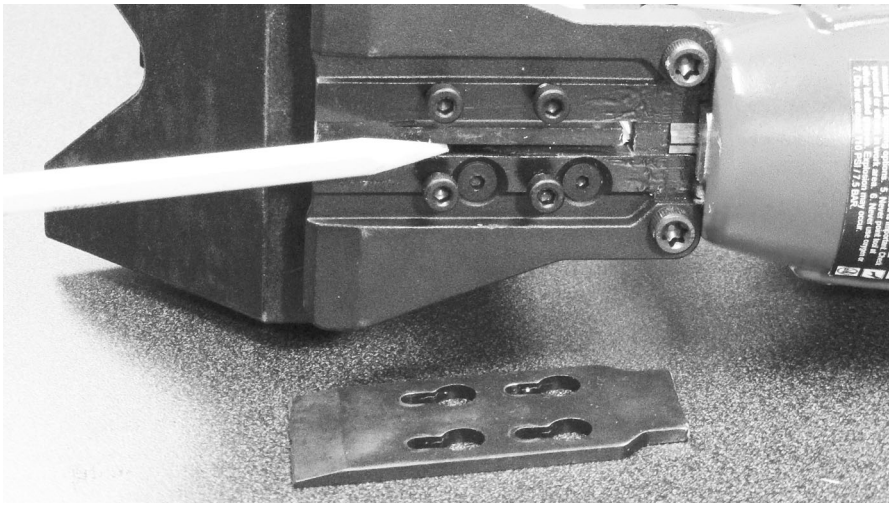
Step 1: Loosen 4 screws.



Step 2. Slide gage plate off.



Step 3. Clear drive blade path and reassemble.



TROUBLE SHOOTING CHART

Here are some common issues that may occur during use.
If the stapler is not working as it should, stop using the tool immediately and resolve the issue before continuing.

	PROBLEM	POSSIBLE CAUSE	SOLUTION
1	Air leaking at Trigger area	1. O-ring (32) in trigger valve is damaged. 2. Trigger valve head (32) is damaged. 3. Trigger valve stem (32) is damaged.	1. Check and replace trigger valve. 2. Check and replace trigger valve. 3. Check and replace trigger valve.
2	Air leaking between body and drive guider	Damaged bumper (19).	Check and replace bumper.
3	Air leaking between body and cylinder cap	1. Screw loose (5). 2. Damaged gasket (20).	1. Tighten screws. 2. Check and replace gasket.
4	Blade driving fastener too deeply	1. Worn bumper (19). 2. Air pressure is too high	1. Replace bumper. 2. Adjust the air pressure.
5	Runs slowly or has loss of power	1. Insufficient oil. 2. Insufficient air supply. 3. Broken spring in cylinder cap (8). 4. Exhaust port (3) in cylinder cap is blocked	1. Lubricate as instructed 2. Check air supply. 3. Replace spring. 4. Replace damaged internal parts.
6	Tool skips a fastener	1. Worn bumper (19) or damaged spring (52A). 2. Dirt in nose (39). 3. Inadequate airflow to tool. 4. Worn or dry O-ring (13A) on piston. 5. Cylinder cap seal leaking (20).	1. Replace bumper or pusher spring. 2. Clean drive channel of front plate. 3. Check hose and compressor fittings. 4. Replace O-ring or lubricate. 5. Replace seal.
7	Fasteners are jammed (see page 8)	1. Joint guider is worn (23). 2. Fasteners are wrong size or damaged. 3. Magazine or front plate screws are loose (35,37,38). 4. Blade (13A) in piston assembly is damaged.	1. Replace joint guider. 2. Use the recommended and undamaged fasteners. 3. Tighten screws. 4. Replace piston assembly.
8	Tool will not drive down tight	1. Worn blade in piston assembly (13A). 2. Lack of power. 3. Slow cycling and loss of power.	1. Replace piston assembly. 2. Adjust to adequate air pressure. 3. Check cylinder cap spring for broken coils or reduced length. Check if exhaust port of cylinder cap is restricted.

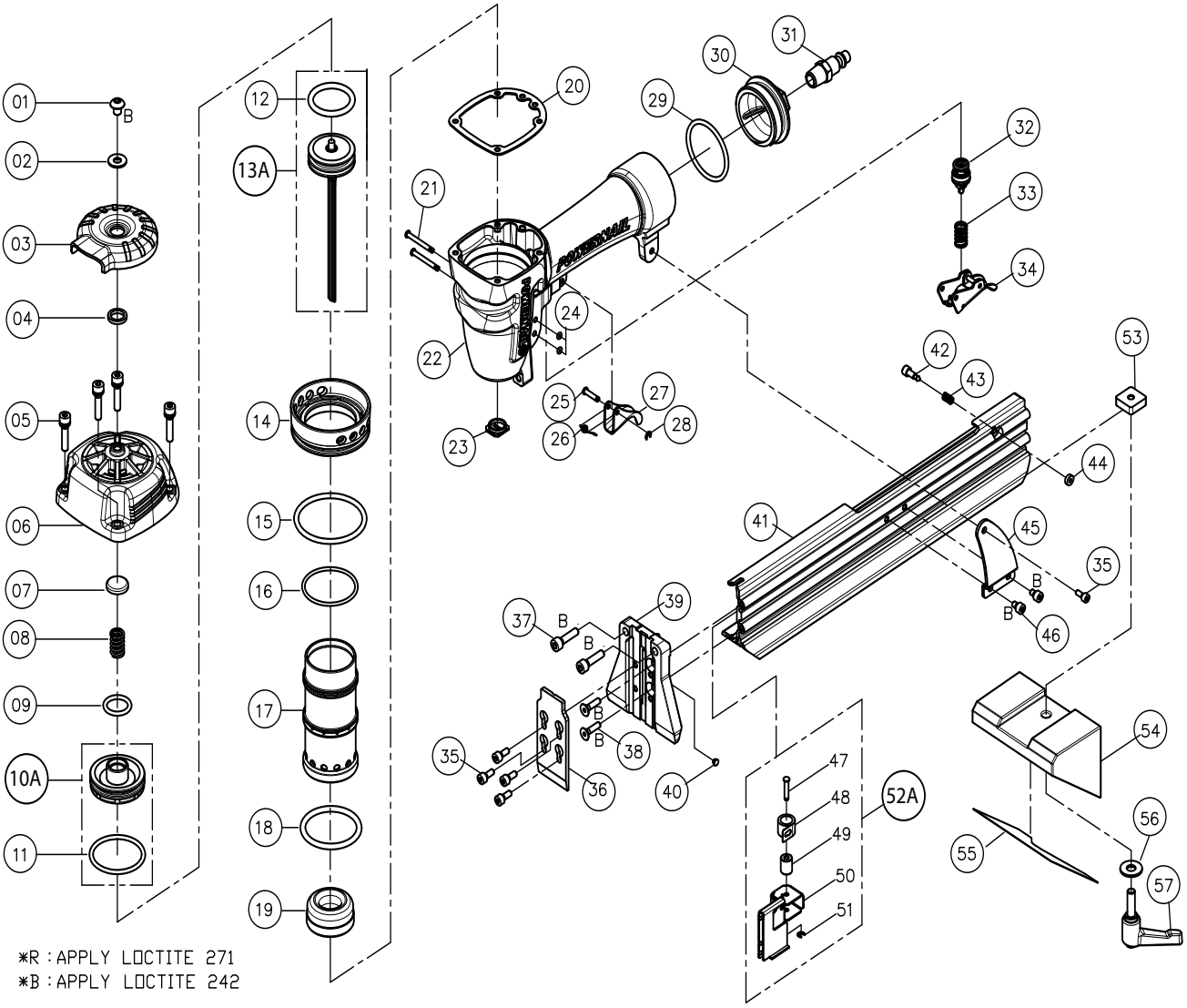
MODEL 1845F PARTS LIST

ITEM #	Description	Avail.	PART #	Qty
01	Um.hd.bolt	S	09-18F001	1
02	Flat Washer	S	09-18F002	1
03	Exhaust Cover, Metal	S	09-18F003	1
04	Seal	S	09-18F004	1
05	Hex.soc.hd.bolt+Sw	S	09-18F005	4
06	Cap	S	09-18F006	1
07	Seal	S	09-18F007	1
08	Spring	S	09-18F008	1
09	O Ring	S,Kit	09-18F009	1
10	Head Valve Asm.	A	See #10A	1
#10A	Head Valve Assembly with O-Ring	A	09-18F010A	1
11	O Ring	S,Kit	09-18F011	1
12	O Ring	S,Kit	09-18F012	1
13	Driver Assembly	A	See #13A	1
13A	Driveblade/Seal Asm.	S	09-18F013A	1
14	Cylinder Ring	S	09-18F014	1
15	O Ring	S,Kit	09-18F015	1
16	O Ring	S,Kit	09-18F016	1
17	Cylinder	S	09-18FS017	1
18	O Ring	S,Kit	09-18FS018	1
19	Bumper	S	09-18F019	1
20	Cylinder Cap Seal	S	09-18F020	1
21	Stepped Pin	S	09-18F021	2
22	Body		n/a	1
23	Joint Guide	S	09-18F023	1
24	O Ring	S	09-18F024	2
25	Stepped Pin	S	09-18F025	1
26	Tor. Spring	S	09-18F026	1
27	Trigger	S	09-18F027	1
28	E Ring	S	09-18F028	1
29	O Ring		n/a	1
30	Cover		n/a	1
31	Air Plug		n/a	1
32	Trigger Valve Assembly	S	09-18F032	1
33	Spring	S	09-18F033	1
34	Bump Fire Trigger	S	09-18F034	1

ITEM #	Description	Avail.	PART #	Qty
35	Hex.soc.hd.bolt	S	09-18F035	5
36	Driver Guide Cover	S	09-18F036	1
37	Hex.soc.hd.bolt	S	09-18F037	2
38	Flat. Hd.bolt	S	09-18F038	2
39	Nose	S	09-18F039	1
40	Anchor	S	09-18F040	1
41	Magazine	S	09-18F041	1
42	Stopper	S	09-18F042	1
43	Spring	S	09-18F043	1
44	Rubber Washer	S	09-18F044	1
45	Bracket	S	09-18F045	1
46	Hex.soc.hd.bolt	S	09-18F046	2
47	Stepped Pin	A	See #52A	1
48	Spring	A	See #52A	1
49	Roller	A	See #52A	1
50	Pusher	A	See #52A	1
51	E Ring	A	See #52A	1
52A	Pusher Assembly	S	09-18F052A	1
53	Flex Foot Lock Nut	S	09-18F053	1
54	Flex Foot Base	S	09-18F054	1
55	No-Mar Pad	S	09-18F055	1
56	Flat Washer	S	09-18F056	1
57	Flex Foot Adjustment Lever	S	09-18F057	1
#90	Seal Kit - Complete Set of 6 O-Rings	KIT	09-18F090SK	1

KEY: S=Sold Separately, A=Assembly, n/a Not available separately, KIT=Sold as part of a Kit

MODEL 1845F SCHEMATIC

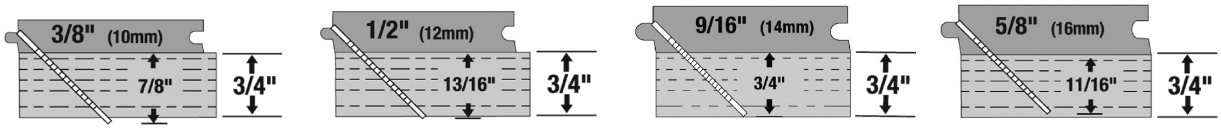


POWERSTAPLES LENGTH DETERMINATION CHART

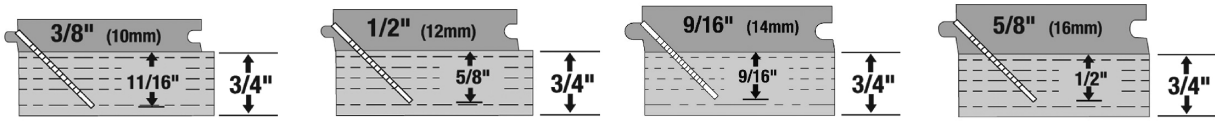
This chart will assist you in determining the proper length of Powerstaples to use for various thicknesses of flooring. Approximate vertical penetration of the Powerstaple under the hardwood floor is shown for each application. This is only a guide. Results should be tested in the field before proceeding.

Staple Penetration for 3/4" Subflooring.

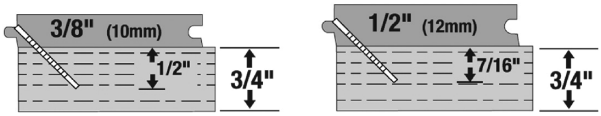
1-1/2" PowerStaples (18 Gauge)



1-1/4" PowerStaples (18 Gauge)



1" PowerStaples (18 Gauge)



18 GA. 1/4" CROWN POWERSTAPLES™

⅞"
(5,000 CT.)
Part #: PS-18087

1"
(5,000 CT.)
Part #: PS-18100

1⅛"
(5,000 CT.)
Part #: PS-18112

1¼"
(5,000 CT.)
Part #: PS-18125

1½"
(5,000 CT.)
Part #: PS-18150

POWERNAIL COMPANY, INC.
1020 Williams Road, Genoa City, WI 53128 US
Phone: 1-800-323-1653 or 262-292-5300
www.powernail.com