



# PASLODE IMPULSE PPN-MASTER IM40 MANUAL



Please scan QR code for  
tool specific maintenance  
instructions

Register your Paslode tool today to ensure your details are kept safe and you maximise the benefits of your Paslode Warranty.

### Why it's important to register your tool:

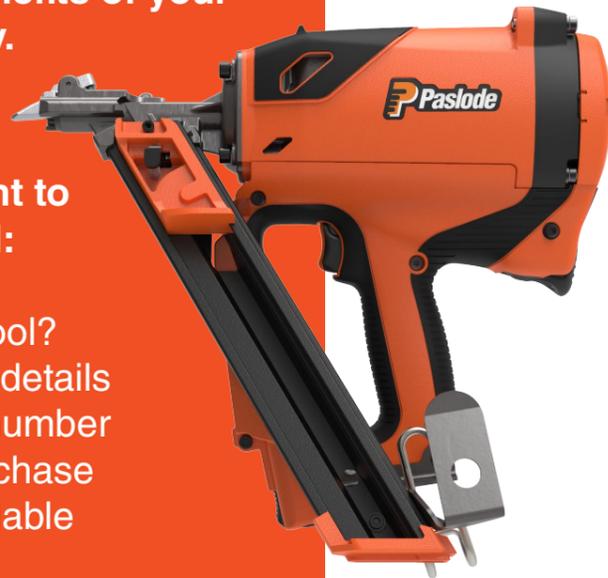
- Lost or stolen tool? Your registered details such as serial number and date of purchase are always available
- Be the first to hear about special offers, new product information and competitions.
- This may provide you a record in case of product loss, fire or theft for insurance claims.
- More Benefits Coming Soon!

Sign up here!



## REGISTER MY TOOL

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# GENERAL SAFETY INSTRUCTIONS

Congratulations on the purchase of your new Cordless Positive Placement Nailer. The Paslode Impulse PPN-Master IM40 is used for connecting Metal Timber Connectors.

The Impulse system consists of: tool, fuel cell, battery, charger and fasteners. In the interests of operator and system safety, the tool, fasteners and the fuel cells referred to in the Paslode documents, must be considered as one single, complete safety system.

## WARNINGS



**DO NOT ATTEMPT TO OPERATE THIS TOOL UNTIL YOU HAVE READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND MANUAL INSTRUCTIONS.**



The Paslode Impulse PPN-Master IM40 Nailer is an internal combustion device. It produces hot exhaust gases that may ignite flammable materials. This tool must not be used in a combustible environment or in the presence of combustible materials, such as flammable chemicals, adhesives, gasoline, or solvents.



Failure to follow all safety precautions and instructions may result in a permanent loss of vision, serious personal or even fatal injury, property damage and/or tool damage.



Do not expose the tool to temperatures in excess of 49°C (120°F). Fuel and/or the battery may burst, releasing flammable gas.



This tool must be operated only in a well-ventilated environment, because the tool exhausts carbon monoxide similar to a petrol/gasoline lawnmower. Exposure to carbon monoxide may cause dizziness, nausea, or unconsciousness.



ALWAYS keep the Impulse IM40 PPN-Master fuel cell, battery and battery charger out of the reach of children.



ALWAYS wear eye and ear safety equipment (PPE) when working with or in the vicinity of the Paslode Impulse IM40 PPN-Master. Meets: ANSIZ 87.1 (Standard).



The Paslode Impulse PPN-Master IM40 Nailer should not be used in the rain or where excessive moisture is present.

## MAINTENANCE

Restrict Field Maintenance to the following:

- CHECKING THE ENERGY LEVEL OF THE BATTERY
- RECHARGING THE BATTERY
- CHECKING THE FUEL CELL
- REPLACING THE FUEL
- CLEANING/REPLACING THE AIR FILTER
- CLEARING A JAM
- CLEANING AND LUBRICATING THE TOOL (SEE UPDATED INSTRUCTIONS VIA QR CODE (PG 12))



## CAUTION

Never attempt any maintenance of a Paslode Impulse tool without first removing the fasteners, fuel cell and battery. Maintenance should be started only after the tool is inoperative.

Operators should be capable of conducting basic maintenance on the tool. **This will not affect your tool warranty.**

## FUEL CELL CHECK

Check the fuel cell. First remove the fuel cell from the tool and check the "Best Use Before" date stamped on the bottom of the cell.

## CLEARING A NAIL JAM SAFELY

1. Remove the battery, fuel and fasteners.
2. Remove magazine if required to clear nail.
3. Clear jam, and push driver blade back up to its rest position at the top of the cylinder.
4. Close magazine. Check contact probe moves freely.

## FUEL CELL DISPOSAL

Dispose of all empty fuel cells responsibly. Remember to dispose of these fuel cells where they will not be crushed, punctured, burned or found by children.

Refer to your local authority regulations.

# TOOL SAFETY INSTRUCTIONS

## SAFETY INSTRUCTION: TOOL OPERATION

1. EYE AND EAR PROTECTION.



Eye protection must meet the requirements of AS/NZS 1337:1992 and should have side shields for increased protection.

2. NEVER ASSUME THE TOOL IS EMPTY.  
Never point the tool at yourself or anyone else.
3. NEVER ENGAGE IN "HORSEPLAY" WITH THE TOOL.  
Careless and improper use may result in a serious accident.
4. NEVER CARRY THE TOOL WITH YOUR FINGER ON, OR DEPRESSING, THE TRIGGER.  
This practice may result in an accidental discharge or a fastener.
5. NEVER OPERATE A TOOL THAT IS MALFUNCTIONING.  
Repair or refer to a service agent.
6. DO NOT LOAD FASTENERS WITH THE TRIGGER OR SAFETY YOKE DEPRESSED.  
A fastener may be accidentally discharged.
7. NEVER OPERATE THE TOOL WITH THE WORK CONTACT ELEMENT REMOVED OR DISABLED.  
Never operate the tool if the work contact element is not working properly or sliding freely.
8. ALWAYS POINT THE TOOL AWAY FROM YOURSELF AND OTHERS WHEN CLEARING A JAM OR REMOVING FASTENERS. ALWAYS REMOVE THE FUEL CELL AND BATTERY BEFORE CHECKING THE TOOL.
9. NEVER OPERATE THE IMPULSE PPN-MASTER IF PARTS ARE LOOSE, DAMAGED OR MISSING.
10. DO NOT DRIVE FASTENERS INTO KNOTS OR ON TOP OF OTHER FASTENERS.  
A fastener may ricochet and cause serious injury.
11. OPERATE THE TOOL ONLY ON THE WORKPIECE.
12. NEVER DRIVE FASTENERS INTO AREAS WITH CONCEALED HAZARDS.  
Always check the area behind the work surface for electrical wiring, gas, pipes, water pipes, sewer drains or other potential hazards.
13. ALWAYS MAINTAIN SECURE AND UNOBSTRUCTED FOOTING WHEN ON LADDERS, PLATFORMS OR OTHER HIGH LOCATIONS.
14. ALLOW ONLY QUALIFIED PERSONNEL TO OPERATE THE IMPULSE PPN-MASTER.

15. PROPERLY STORE FUEL CELL.



Always store fuel cells where they will not be exposed to an open flame, sparks, in direct sunlight or temperatures above 25°C (77°F).

16. ALWAYS STORE THE TOOL WITH THE FUEL CELL AND BATTERY REMOVED.

Store the fuel cells in the case with the Impulse PPN-Master.

17. KEEP THE TOOL CLEAN AND WELL MAINTAINED.

18. KEEP YOUR HANDS CLEAR OF THE WORK AREA SURFACE.



A fastener may exit at an angle unexpectedly and cause injury.

19. OBSERVE LOCAL BATTERY AND FUEL CELL DISPOSAL REGULATIONS.

20. WHEN NOT IN USE, REMOVE THE BATTERY AND FASTENERS AND RETURN THE TOOL TO ITS CASE.

21. IT IS NOT PERMITTED TO MAKE ANY MODIFICATION TO THE TOOL, FUEL CELL OR BATTERY OTHER THAN THOSE SPECIFIED BY THE MANUFACTURER.

22. ONLY USE PASLODE SPECIFIED CONSUMABLES, BATTERIES AND FUEL CELLS.

23. IF THE TOOL MISFIRES, ALWAYS REMOVE THE BATTERY PRIOR TO EXAMINATION OF THE TOOL.

24. If the problem persists contact your local centre or the tool manufacturer. The tool should be regularly inspected for defective parts, loose screws (especially after cleaning), etc and any defects rectified before use. Check prior to each operation that the safety mechanism is functioning properly.

25. ALWAYS FIRE TOOL AT 90° TO WORK SURFACE.

Any application that requires an angle less than 80° must be hand nailed or screwed.

26. ONLY DRIVE PRODUCT NAILS THROUGH METAL / TIMBER CONNECTION PLATES THAT HAVE A STEEL THICKNESS BETWEEN .50 – 1.2MM (0.02 TO 0.44 INCHES).

27. HARDENED PPN NAILS ARE NOT A HEAVY STEEL PLATE FIXING METHOD.

28. HEAVY GAUGE STEEL PLATE SHOULD BE FITTED WITH SCREWS, RIVETS OR POWDER ACTUATED TOOL AND FASTENERS EG. RAMSET.

# BATTERY SAFETY & CHARGING

## BATTERY AND CHARGING INSTRUCTIONS

1. Plug power adapter into charger base.
2. Connect to 240v AC outlet, a green light indicates power is on.
3. Install battery, red light indicates battery is charging.
4. After charging is complete, the green light will come on.

**NOTE:** If battery is completely discharged, the red light and the green light may alternate back and forth for up to 20 minutes. This safety feature slowly recharges the battery until it is ready to accept the full charging current. If the red and green lights continue to alternate after 20 minutes, the battery may be damaged.

## CHARGING TIMES

First charge (new battery) - 1 hour

Discharged Battery - 5 minutes to 1 hour

## DO NOT:

-  Charge battery outdoors, in exposed wet conditions, or in temperatures below 5°C (40°F).
-  Allow metal objects to come in contact with battery terminals.
-  Puncture or attempt to open battery case or cells.
-  Store battery where it will be subjected to temperatures above 49°C (120°F).
-  Incinerate battery.
-  Use a defective battery charger, one that over-heats and/or smokes when plugged in.
-  Immerse the battery in water.
-  Do not short-circuit a battery.
-  Do not use a battery charger which heats up excessively or gives off fumes when connected - disconnect the charger immediately.

The power adapter, charger base and battery are designed to operate together as one system. Only use the 'Paslode Impulse' charger for 'Paslode Impulse' batteries.

The charging system is designed for use in covered areas. Do not expose it to rain or to excessive humidity.

Arrange the charger lead appropriately to avoid unnecessary damage. Do not use the charger if the cable or plug is damaged. Replace immediately.

To avoid electrocution, disconnect the power supply adapter before cleaning the terminals and contacts. Use a dry cloth.

## BATTERY DISPOSAL

Batteries and charging systems must be recycled or taken to a designated disposal areas. (Subject to local regulations).

## TRANSPORT - LI ION BATTERY & FUEL CELLS

The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements (see UN3480 or UN3481). The user can transport the batteries by road without further requirements.

When being transported by third parties (eg: air transport or forwarding agency), special requirements on packaging and labelling must be observed. For preparation of the item being shipped, consult an expert for hazardous material if required.

Dispatch batteries only when the housing is undamaged. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging. Please also observe possibly more detailed national regulations.

For the transport of Paslode fuel cells use UN Code UN3478.

Transport of small amounts (<30 Kg / 66lb) in a private vehicle is permitted without a transport and safety sheet (Limited quantity exemption for road transport). The regulations by transport categories are:

- Road/rail: ADR- RID - UN code 3478 class 2 code 5F
- Sea: IMDG - UN code 3478 + emergency instructions sheet F-D, S-U
- Air: IATA - UN code 3478 class 2.1

Goods must be accompanied by the written safety instruction of the chapter 5-4-3 of the ADR. Transport by post is not permitted.

# FUEL CELL SAFETY

## FUEL CELL SAFETY



### WARNING EXPLOSION/FIRE HAZARD



Read all instructions before using or handling the fuel cell.



Keep the fuel cell away from heat, sparks and open flame. Do not smoke when handling or operating tool or fuel cell.



Exposure to temperatures above 49°C (120°F) may cause the fuel cell to burst, releasing flammable gas.

Sunlight can raise the inside temperature of an unventilated motor vehicle or storage container to above 60°C (140°F).



Never puncture or attempt to open the fuel cell; it is non-refillable. Never incinerate, reclaim or recycle the fuel cell. Dispose of used cell responsibly.



Never smoke while installing the fuel cell or operating the tool.



Never inhale the spray. Store fuel cell(s) in well-ventilated areas only.



Keep out of the reach of children.



Liquid gas can cause injury in the event of contact with the skin or eyes.



**FUEL CELL CHECK**  
Paslode Impulse fuel cells are marked with a "Best Use Before" date on the bottom of the can. For maximum performance use fuel before the "Best Use Before" date.

## COLD WEATHER OPERATION

Fuel combustion can be adversely affected at extreme low temperatures. Ensure that the tool battery and fuel cell are above the minimum operating temperature of -3°C (27°F) before use.

The fuel cell is an aerosol product corresponding to the 2008/47/EC regulations. It contains:

- Liquefied hydrocarbon gases (butane, propane, propylene).
- A lubricant to maximise the tool durability.

When the fuel is used there will always be some propellant left inside the cartridge. The fuel cell is always pressurized. Its contents are extremely flammable. The fuel cell is not reusable.

## FUEL CELL DISPOSAL

Dispose of all empty fuel cells responsibly. Remember to dispose of these fuel cells where they will not be crushed, punctured, burned or found by children. Disposal code D001 EPA (USA).

## STORAGE

Stores and showrooms must comply with building regulations. All local instructions corresponding to fire regulations must be followed.

- Where possible, store fuel at a stable temperature in the range 7°C to 25°C (44.6°F to 77°F). Do not expose to temperatures exceeding 49°C (120°F).
- Do not use tools that emit flames, sparks or reach high temperatures in the vicinity that fuel cells are stored.
- Do not store in designated thoroughfares, hallways or stairwells.
- Store in a well-ventilated area.
- Fuel cells must not be displayed in shop windows.
- Storage with pyrotechnic products is not permitted.

## FIRST AID

- Direct contact with liquid gas may cause burns or frostbite.
- In case of inhalation remove the person to fresh air, and encourage breathing. Should the casualty become unconscious, or breathing does not quickly return to normal, summon urgent medical assistance.
- If gas gets into the eyes they should be flushed out with copious amounts of water. Skin contamination should be removed with soapy water.
- If symptoms persist, seek medical assistance.

# TOOL OVERVIEW



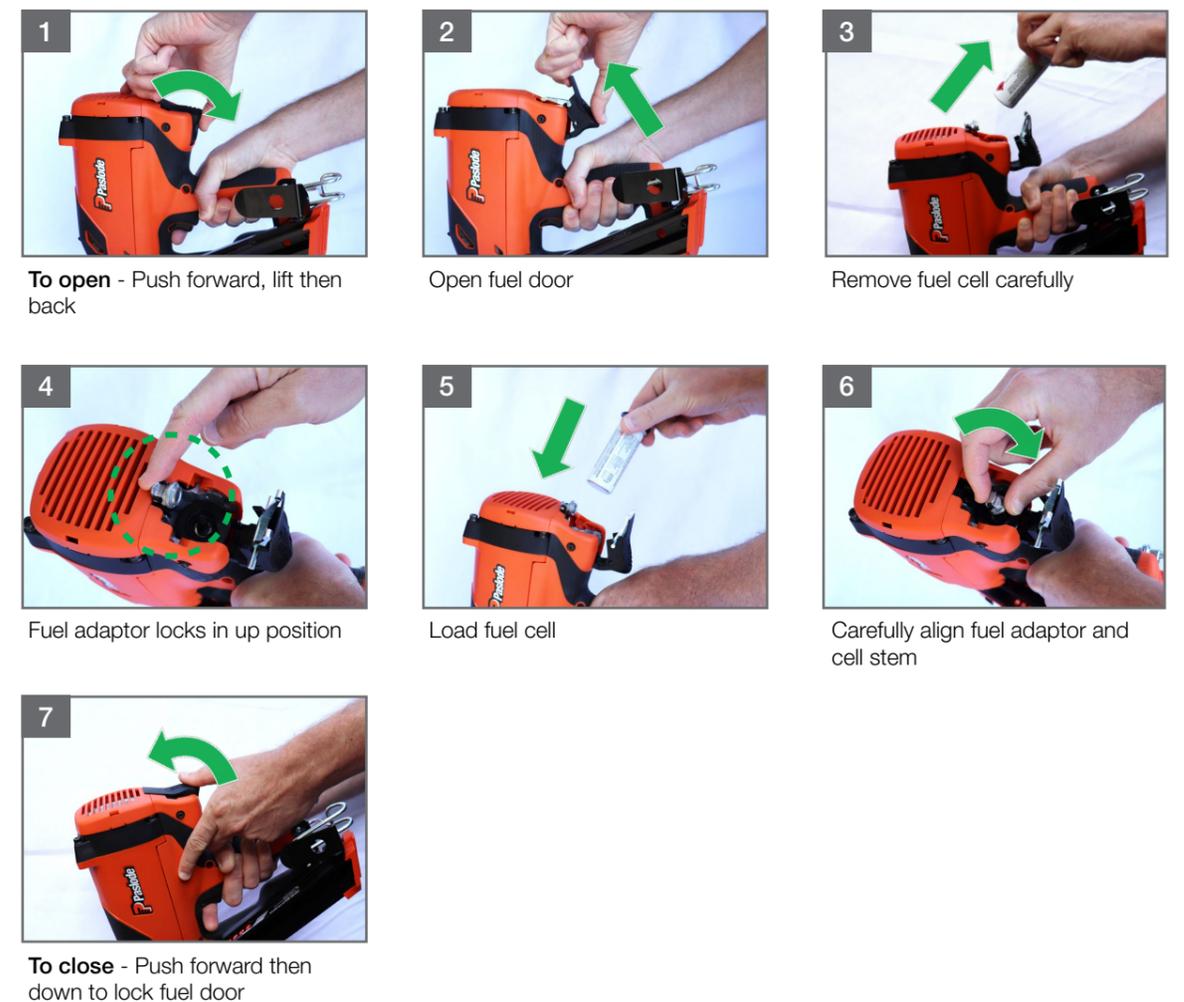
# FUEL CELL LOADING PROCEDURE



ONLY USE PASLODE'S SPECIALLY FORMULATED FUEL, FAILURE TO DO SO MAY DAMAGE YOUR TOOL, CAUSE MISFIRES AND VOID WARRANTY.



## CORRECT FUEL CELL LOADING PROCEDURE



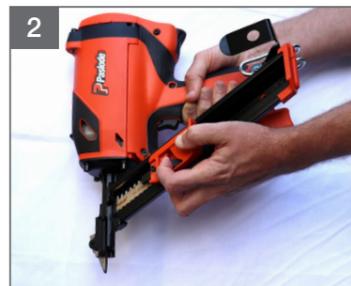
# CORRECT TOOL OPERATING PROCEDURES



## CORRECT NAIL LOADING PROCEDURE



Slide nail strip into back of Magazine



Depress lever, then pull nail follower back past nail strip



Gently release follower onto rear of nail strip, to prevent collation damage

## APPLICATIONS



Hanger bracket



Nail on plate



Strap Brace



Multigrip



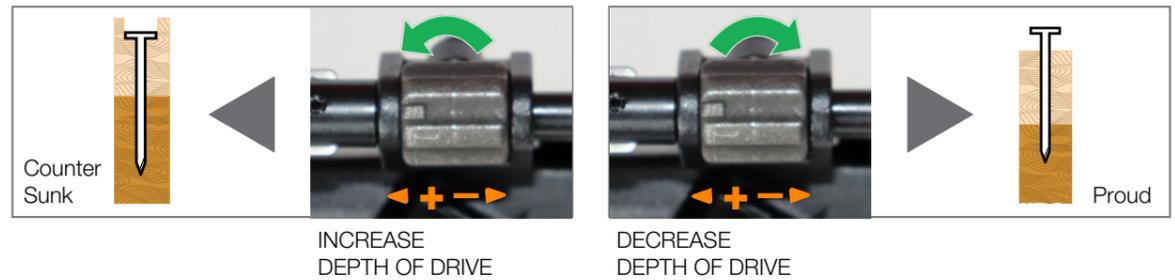
Triplegrip

Caution: Always refer to timber connector manufacturers fixing instructions

# PREPARING AND USE OF TOOL

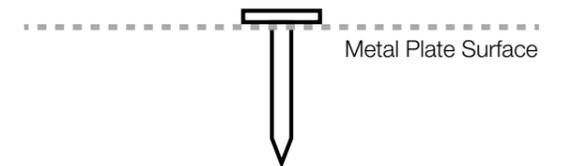


## ADJUSTING THE DEPTH OF DRIVE - THUMB WHEEL ROTATION



## FOR FIXING METAL CONNECTING PLATES

Caution: Use Paslode 35 and 40mm (1.35 to 1.57 inches) Hardened nails only. Do not over drive Nail. Under side of nail head should rest against Metal plate surface



## CORRECT BATTERY OPERATION



ON/OFF SWITCH. Battery has 2 secure lock positions: engaged and disengaged



Green indicates charged battery



Red indicates battery needs recharging

## TOOL FIRING SEQUENCE 1,000/Hour Max Fire/Cycle rate at 2 nails per second / -3°C to 40°C (27°F to 104°F)



Depress work contact probe



Actuate trigger, tool fires



Allow recoil, work contact is released



Trigger released

# TROUBLESHOOTING

# TOOL MAINTENANCE

**ALWAYS REMOVE BATTERY, FUEL CELL AND FASTENERS WHEN SERVICING OR CLEARING A JAM.**

**ALWAYS REMOVE BATTERY, FUEL CELL AND FASTENERS WHEN SERVICING OR CLEARING A JAM.**

## FIRING THE TOOL



**Tool Working Correctly**



**PROBLEM:** No fan and does not fire



**SOLUTION:**

- Check for flat battery
- Remove and re-charge battery to reset tool



**PROBLEM:** Fan runs but tool does not fire



**SOLUTION:**

- Check for empty fuel cell, flat battery, clogged filter or dirty spark plug
- Check driver blade returned to top of cylinder
- Clean and oil tool



**PROBLEM:** Fan runs, tool fires, no nail fed.



**SOLUTION:**

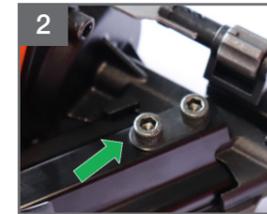
- Check for jammed nail
- Check for collation tape or nail jam, or any foreign body in magazine
- Clean out any oil or material - do not oil magazine



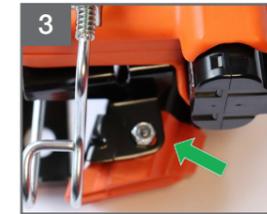
## CLEARING A FASTENER JAM



Remove Battery, Fuel cell and nails



Remove 2 cap screws located on side of Magazine securing magazine to the nose



Remove Nut from rear of magazine



Remove the magazine assembly to expose the back of the nose slot (Be careful the nail follower does not come out of the magazine channel)



Push or punch the driver blade back to top rest position, using a long punch (if needed)



With driver blade clear, operator is free to remove jammed or bent nail



Reassemble tool, attached magazine to nose, replace cap screws and Nylock nut. Tool is ready to use.

## CLEANING THE AIR FILTER



Use a flat bladed screw driver to remove cap



Tap filter gently against timber to remove dust



Cleaner/Degreaser or soap and water restores the filter



Filter will look like new

Please scan QR code for tool specific maintenance instructions



# TOOL SPECIFICATIONS

## PASLODE IMPULSE IM40 PPN-MASTER



MAX FIRE/CYCLE RATE	FIRE RATE	TEMPERATURE RANGE
hours	seconds	Celcius
1000	2 nails	-3°C to 40°C (27°F to 104°F)

TOOL SIZE	TOOL WEIGHT	MAGAZINE CAPACITY	NAIL SIZE	COLLATION TYPE	SHANK TYPES	TYPE OF HEAD	DURABILITY
mm	kg	Unit	mm	0° Degree			
Length is 310mm (12.2")	without battery 3.03kg (6.68lb)	29 nails	Length: 35 to 40mm (1.4 to 1.57 inches)	Paper Strip Collation	Smooth Ring Centre Post	Flat and Full Round Head Nail	Mechanical Galv Stainless Steel
Height is 345mm (13.6")	with battery is 3.14kg (6.9lb)		Diameter: 3.15 to 3.75mm (0.120 to 0.150 inches)				
Width is 138mm (5.4")							

## LI-ION BATTERY AND CHARGER SYSTEM



TECHNICAL DATA	PART NO	INPUT	OUTPUT	POLARITY
	Power Adapter B20543C	240V AC 50/60 Hz 30W 12VDC @ 1.8A	12V @ 1.8A	
	Battery Charger Kit B20543B		8.5VDC @ 2.0A	
	Battery B20543A	7.4 VDC Li-Ion 9.3Wh 1250mAh		
	Fuel Cell Capacity 800 shots			

# SCHEMATICS

## PARTS LEGEND

1	919042	1 Grill
* 2	900455	1 Filter
3	901065	4 Screw SHC 10-24 x 1-1/4
4	919040	1 Cap
5	900902	3 Screw TF SEMS 8-32 x 5/8
6	902637	1 Limiter
7	905658	1 Motor Assembly, Fan
8	900287	1 Spark Plug Assembly
9	401356	1 Sleeve, Fan Motor
10	904517	1 Fuel Barb
• 11	904546	1 Fuel Tube
12	902405	1 Fuel Block
13	904521	1 Pivot Arm, Fuel Tube
14	919126	1 Cylinder Head
• 15	919067	4 Seal Ring, Cylinder Head and Sleeve
16	403167	1 Fan Blade Assembly
17	919048	1 Air Dam
18	919132	1 Combustion Chamber Assembly
■ 19	900969	4 Screw 8-32 x 5/8
• 20	919045	1 O-Ring
■ 21	919065	4 Screw TX SEMS 8-32 x 1/4
22	919028	1 Bracket, Chamber Lockout
23	919004	1 Ring, Retaining Circlip
* 24	906120	1 Driver & Piston Assembly
• 25	900612	2 Seal Ring, Piston
26	919125	1 Sleeve Assembly
■ 27	900595	4 Screw TX SEMS 8-32 x 3/8
28	919010	1 Cover, Muffler
• 29	919049	1 Muffler
• 30	919009	1 Reed Valve
31	919011	1 Reed Plate
32	919016	1 Baffle, Exhaust
• 33	919014	1 Seal, Exhaust
• 34	919017	1 O-Ring
* 35	919012	1 Bumper
36	919046	1 Spring, Yoke
37	919123	1 Yoke Assembly
38	018956	1 Wheel, Depth Adjustment
• 39	919110	1 O-Ring, Retaining
40	919142	1 Housing Assembly
41	906102	1 Nose
42	906141	1 Probe Assembly
■ 43	919108	4 Screw SHC SEMS 1/4-20 x 7/8

- \* Normal Wear Item
- Included in Service Kit
- Apply Loctite® 242 (Blue)

AR As Required

**WARNING:** All parts must be periodically inspected and replaced if worn or damaged. Failure to comply can affect the tool's operation and present a safety hazard.

## PASLODE IM40 POSITIVE PLACEMENT NAILER B60001

44	919153	1 Fuel Door Assembly
45	919116	2 Screw SHC 8-32 x 3/8
46	919115	2 Bush
47	919130	1 Handle RH
48	900662	1 Wire Harness, ESU
49	916258	1 Electronic Spark Unit (ESU)
50	919092	2 Nut, Nyloc 10-24
51	901095	1 Slide Switch Assembly
52	919068	1 Circuit Board Assembly
53	918903	2 Pad, Foam (Battery)
54	404702	3 Screw TF 6-19 x 3/8
55	919120	1 Trigger Assembly
56	903728	1 Wire Lead Assembly, Spark
57	919063	1 Wire Lead Assembly, Fan Motor
58	919075A	1 Hook Assembly Kit, Belt/Rafter
59	919075	1 Hook, Belt/Rafter
60	919077	1 Block, Belt/Rafter Hook
61	904532	1 Retainer, Trigger & Wire Lead
62	904705	1 Housing, Lockout Pin
63	904707	1 Spring
64	919095	1 Pin, Lockout
65	919129	1 Handle LH
66	906113	1 Belt Hook & Bracket Assy
67	906114	2 Bracket/Belt Hook screws
68	901066	2 Screw TF TX 8-16 x 3/4
69	919093	2 Screw 10-24
■ 70	502338	2 Screw SHC 1/4-28 UNF X .5
71	502323	1 Washer Plate, Magazine
72	906115	1 Magazine Assembly
73	092037	2 Nut, lock
74	408302	2 Washer, Flat
75	502329	1 End Cap, Magazine
76	906150	1 Bolt SHC 10-32 x 1
77	502226	1 Spring, Negator
78	502025	1 Drum & Pin Assembly
79	502335	1 Lockout Bar
80	502340	1 Pin, Roll
81	502318	1 Body, Follower
82	500627	1 Screw SHC 8-32 x 1/2
83	502020	1 Spring, Follower
84	513101	1 Lever, Follower
85	010031	AR Service Kit

**Remove battery & brads before comencing service.**  
**Use eye and ear protection when operating/testing tools.**  
**Use eye protection when cleaning tools.**  
**Use degreaser in a well ventilated area.**

# SCHEMATICS cont.

**PASLODE IM40  
PPN-MASTER  
B60001 906100**

85 **Paslode  
SERVICE KIT  
010031**

Torque Values (in/lb)			
Item	Torque	Item	Torque
3	55-60	19	35-40
5	30-35	21	30-35
8	20-25	27	30-35
10	15-20	43	155-165
16	8-10		

• Service Kit Item  
■ Loctite® 242

All parts sold as single items unless described as a pack, set or forms part of an assembly (multiple items defined within a box). A part with no item number is only available in an assembly.

# SCHEMATICS cont.

**PASLODE IM40  
PPN-MASTER  
B60001 906100**

Torque Values (in/lb)			
Item	Torque	Item	Torque
45	30-35	70	35-40
54	6-8	76	35-40
67	18-22	82	18-22
68	18-22	▲	55-65
69	25-30		

• Service Kit Item  
■ Loctite® 242

All parts sold as single items unless described as a pack, set or forms part of an assembly (multiple items defined within a box). A part with no item number is only available in an assembly.





**For technical support contact Paslode:**  
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