



Operating Instructions and Parts Manual

Sliding Dual-Bevel Compound Miter Saw

Model JMS-10X and JMS-12X



JET
427 New Sanford Road
LaVergne, Tennessee 37086
Ph.: 800-274-6848
www.jettools.com

Part No. M-707210
Edition 1 06/2019
Copyright © 2019 JET



1.0 IMPORTANT SAFETY INSTRUCTIONS

WARNING – To reduce risk of injury:

1.1 General machine safety warnings

1. Read and understand the entire owner's manual before attempting assembly or operation.
2. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
3. Replace warning labels if they become obscured or removed.
4. This saw is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a miter saw, do not use until proper training and knowledge have been obtained.
5. Do not use this saw for other than its intended use. If used for other purposes, JET disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
6. Always wear approved safety glasses or face shield while using this saw. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
7. Before operating this saw, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Do not wear loose clothing. Confine long hair. Non-slip footwear or anti-skid floor strips are recommended. Do not wear gloves.
8. Wear ear protectors (plugs or muffs) during extended periods of operation.
9. Make certain the switch is in the OFF position before connecting the machine to the power supply.
10. Make certain the machine is properly grounded.
11. Make all machine adjustments or maintenance with the machine unplugged from the power source.
12. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
13. Keep safety guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately after completion of maintenance.
14. Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
15. Provide for adequate space surrounding work area and non-glare, overhead lighting.
16. Keep the floor around the machine clean and free of scrap material, oil and grease.
17. Keep visitors a safe distance from the work area. Keep children away.
18. Make your workshop child proof with padlocks or master switches.
19. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
20. Maintain a balanced stance at all times so that you do not fall into the blade or other moving parts. Do not overreach or use excessive force to perform any machine operation.
21. Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and more safely.
22. Use recommended accessories; improper accessories may be hazardous.
23. Maintain tools with care. Keep saw blades sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories.
24. Always disconnect power to the machine (unplug) before performing maintenance.
25. Use a brush or compressed air to remove chips or debris — do not use bare hands.
26. Do not stand on the machine. Serious injury could occur if the machine tips over.
27. Never leave the machine running unattended. Turn the power off and do not leave the machine until it comes to a complete stop.
28. Remove loose items and unnecessary work pieces from the area before starting the machine.

- 29. Keep hands out of the line of saw blade.
- 30. Don't use in dangerous environment. Don't use power tools in damp or wet location, or expose them to rain. Keep work area well lighted.

1.2 Miter saw safety warnings

Specific safety instructions for this compound miter saw:

- 31. Do not operate the miter saw until it is completely assembled and installed according to these instructions.
- 32. If you are not familiar with the operation of miter saws, seek guidance from your supervisor, instructor or other qualified person.
- 33. Always hold the work firmly against the fence and table.
- 34. Do not perform free-hand operations; use clamp wherever possible.
- 35. Keep hands out of the path of the saw blade. If the workpiece you are cutting would cause your hands to be within 8 inches of the saw blade, the workpiece should be clamped in place before making the cut.
- 36. Be sure the blade is sharp, runs freely and is free of vibration.
- 37. Allow the motor to come up to full speed before starting a cut.
- 38. Keep the motor air vents clean and free of chips or dust.
- 39. Make sure all handles are tight before cutting, even if table is positioned in one of the positive stops.
- 40. Be sure both the blade and the flange are clean and the arbor bolt is tightened securely.
- 41. Use only blade flanges specified for your saw.
- 42. Never use blades larger in diameter than the size specified by your particular model.
- 43. Never apply lubricants to the blade when it is running.
- 44. Always check the blade for cracks or damage before operation. Replace a cracked or damaged blade immediately.
- 45. Never use blades rated for fewer RPM's than the rated speed of the saw. See your saw specifications.
- 46. Always keep blade guards in place and use at all times.
- 47. Never reach around the saw blade.
- 48. Make sure the blade is not contacting the workpiece before the switch is turned ON.
- 49. After completing the cut, release the trigger and wait for the blade to stop before returning the saw to raised position.
- 50. Make sure the blade has come to a complete stop before removing or securing the workpiece, changing the workpiece angle or changing the angle of the blade.
- 51. Never cut metals or masonry products with this tool. This miter saw is designed for use on wood and wood-like products.
- 52. Never cut small pieces. If the workpiece being cut would cause your hand or fingers to be within 8 inches of the saw blade, the workpiece is too small.
- 53. Provide adequate support to the sides of the saw table for long work pieces.
- 54. Never use the miter saw in an area with flammable liquids or gases.
- 55. Never use solvents to clean plastic parts. Solvents could possibly dissolve or otherwise damage the material.
- 56. Shut off the power before servicing or adjusting the tool.
- 57. Disconnect the saw from the power source and clean the machine when finished using.
- 58. Make sure the work area is clean before leaving the machine.
- 59. Should any part of your miter saw be missing, damaged, or fail in any way, or any electrical component fail to perform properly, remove the plug from the power supply outlet. Replace missing, damaged, or failed parts before resuming operation.

⚠ WARNING: This product can expose you to chemicals including lead and cadmium which are known to the State of California to cause cancer and birth defects or other reproductive harm, and phthalates which are known to the State of California to cause birth defects or other reproductive harm. For more information go to <http://www.p65warnings.ca.gov>.

⚠ WARNING: Drilling, sawing, sanding or machining wood products generates wood dust and other substances known to the State of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask or other safeguards for personal protection.

Wood products emit chemicals known to the State of California to cause birth defects or other reproductive harm. For more information go to <http://www.p65warnings.ca.gov/wood>.

Familiarize yourself with the following safety notices used in this manual:



This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.



This means that if precautions are not heeded, it may result in serious, or possibly even fatal, injury.

2.0 Table of contents

| Section | Page |
|---|------|
| 1.0 IMPORTANT SAFETY INSTRUCTIONS | 2 |
| 1.1 General machine safety warnings | 2 |
| 1.2 Miter saw safety warnings | 3 |
| 2.0 Table of contents | 4 |
| 3.0 About this manual | 6 |
| 4.0 Features and terminology | 7 |
| 5.0 Specifications | 8 |
| 5.1 Cutting capacities | 9 |
| 6.0 Setup and assembly | 10 |
| 6.1 Unpacking | 10 |
| 6.2 Shipping contents | 10 |
| 6.3 Tools required for assembly | 10 |
| 6.4 Transporting the saw | 10 |
| 6.5 Mounting saw to bench | 10 |
| 6.6 Releasing slide carriage | 10 |
| 6.7 Releasing cutting head | 10 |
| 6.8 Dust extraction | 10 |
| 6.9 Power cord storage clips | 11 |
| 6.10 Saw blade wrench | 11 |
| 6.11 Installing hold-down | 11 |
| 6.12 Removing/installing blade | 11 |
| 7.0 Electrical connections | 12 |
| 7.1 Extension cords | 12 |
| 8.0 Adjustments | 13 |
| 8.1 Support foot | 13 |
| 8.2 Miter angle setting | 13 |
| 8.3 Table extensions and work stop | 13 |
| 8.4 Fence adjustment | 14 |
| 8.5 Bevel adjustments | 14 |
| 8.6 Depth adjustment | 15 |
| 9.0 Operation | 15 |
| 9.1 LED light | 15 |
| 9.2 Laser guide | 15 |
| 9.3 General saw operation | 16 |
| 9.4 Jammed material | 16 |
| 9.5 Cutting options | 16 |
| 9.6 Cutting bowed material | 17 |
| 9.7 Rough cutting a dado | 17 |
| 9.8 Base molding | 17 |
| 9.9 Crown molding | 17 |
| 10.0 User-maintenance | 17 |
| 10.1 General cleaning | 17 |
| 10.2 Lower Blade Guard | 18 |
| 10.3 Lubrication | 18 |
| 10.4 Commutator brush inspection | 18 |
| 10.5 Additional servicing | 18 |
| 11.0 Crown molding charts | 19 |


| | |
|---|----|
| 11.1 Crown molding: 90° wall angles | 19 |
| 11.2 Crown molding: various wall angles | 20 |
| 12.0 Troubleshooting JMS-10X,12X Miter Saws | 21 |
| 13.0 Replacement Parts..... | 22 |
| 13.1.1 JMS-10X (#707210) – Miter Saw Assembly – Exploded View I..... | 23 |
| 13.1.2 JMS-10X (#707210) – Miter Saw Assembly – Exploded View II..... | 24 |
| 13.1.3 JMS-10X (#707210) – Miter Saw Assembly – Parts List..... | 25 |
| 13.2.1 JMS-12X (#707212) – Miter Saw Assembly – Exploded View I..... | 29 |
| 13.2.2 JMS-12X (#707212) – Miter Saw Assembly – Exploded View II..... | 30 |
| 13.2.3 JMS-12X (#707212) – Miter Saw Assembly – Parts List..... | 31 |
| 14.0 Electrical Connections – JMS-10X,12X | 35 |
| 15.0 Warranty and service | 36 |

3.0 About this manual

This manual is provided by JET, covering the safe operation and maintenance procedures for a JET Model JMS-10X and JMS-12X Miter Saw. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. Your machine has been designed and constructed to provide consistent, long-term operation if used in accordance with the instructions set forth in this document.

If there are questions or comments, please contact your local supplier or JET. JET can also be reached at our web site: www.jettools.com.

Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.

 WARNING Read and understand the entire contents of this manual before attempting assembly or operation. Failure to comply may cause serious injury.

Register your product using the provided mail-in card, or register online: <http://www.jettools.com/us/en/service-and-support/warranty/registration/>

4.0 Features and terminology

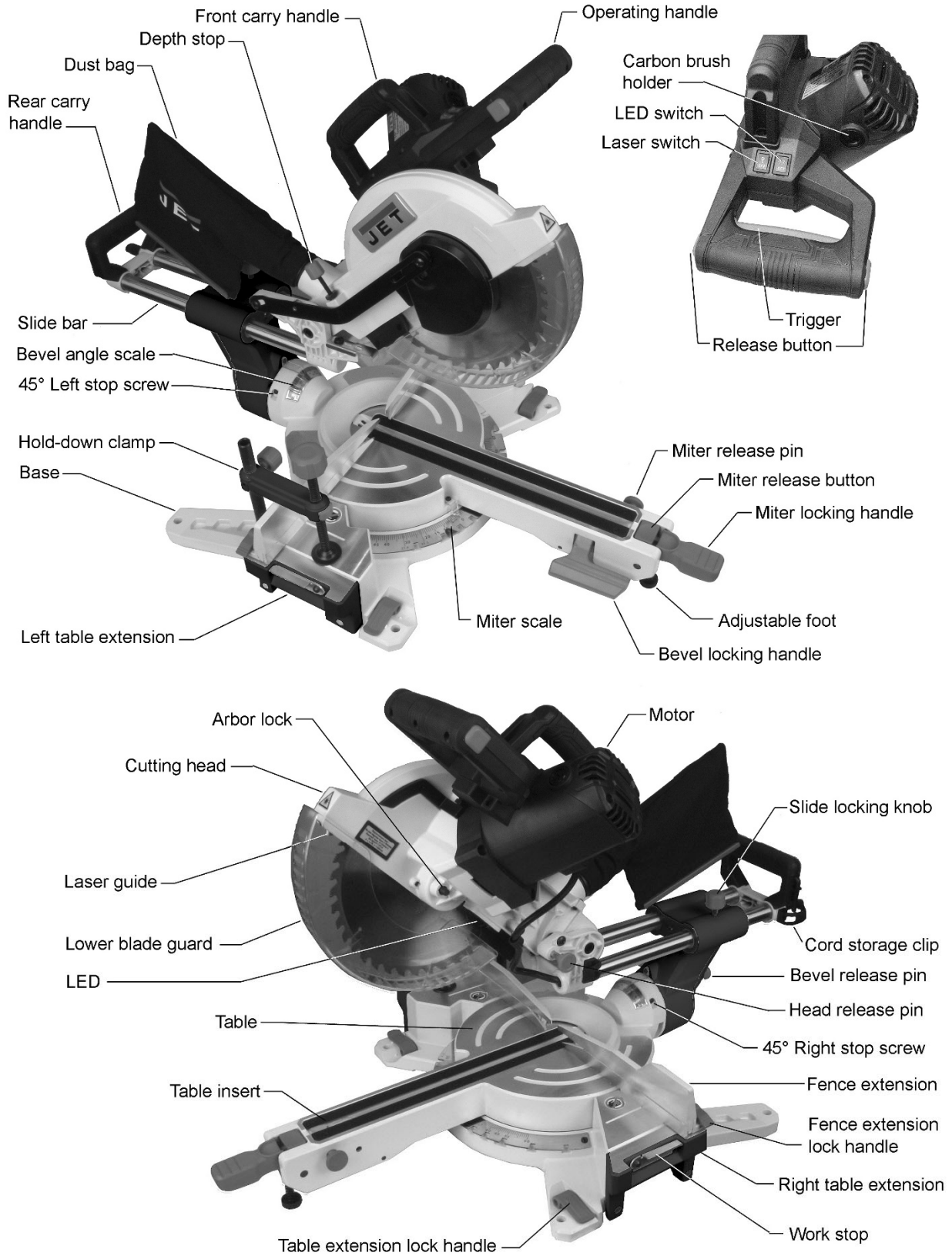


Figure 4-1: Features and Terminology

5.0 Specifications

Table 1

| Model number | JMS-10X | JMS-12X |
|---------------------------------------|--|---|
| Stock number | 707210 | 707212 |
| Motor and Electricals | | |
| Motor type | Series-wound, double insulated | |
| Input power | 1.7 kW | |
| Phase | single | |
| Voltage | 115 V | |
| Cycle | 60 Hz | |
| Listed FLA (full load amps) | 15 A | |
| Motor speed | 4000±10% RPM | |
| Starting amps | 25 A | |
| Running amps (no load) | 5.10 A | 5.33±10% A |
| Switch | Saw: 18A,127V; Laser: 6A 250AC; LED: 10A 125VAC | |
| Power cable | SJT 14AWGx3C, 8-1/2 ft. | |
| Power plug | Type ZT-1 (115V), without ground | |
| Recommended circuit size ¹ | 15 A | |
| Sound emission ² | 95 dB at 3 ft. (900mm) from blade | |
| Laser | Class 2, 3V 400~700 NM | |
| Work light | LED | |
| Capacities and measurements | | |
| Blade speed | 4000±10% RPM | |
| Motor arbor size | Ø 5/8 in. (15.875 mm) | |
| Reducer for blade to arbor | n/a | Ø 5/8 x 1 x 0.11 in. (16 x 25.4 x 2.8 mm) |
| Saw blade | Ø10in. x 40T x 5/8in. arbor, carbide tipped, (Ø254 x 15.875 x 2.8mm – 40T); Nmax. 7000 RPM | Ø12in. x 48T x 1in. arbor, carbide tipped, (Ø305 x 25.4T x 2.8mm – 48T); Nmax. 7000 RPM |
| Blade arbor size | 5/8 in. (15.875 mm) | 1 in. (25.4 mm) |
| Miter cutting range | 52° Left, 60° Right | |
| Bevel cutting range | 0° to 45° L & R | |
| Miter stops | 0, 15, 22.5, 31.6, 45 deg. L & R and 60 deg. R | |
| Bevel stops | 45° L, 0°, 45° R | |
| Maximum sliding travel | 9-3/8 in. (240 mm) | 9.2 in. (233 mm) |
| Cutting capacity | See Table 2 | |
| Dust collection | | |
| Dust port diameter | Ø 1-5/8 in. (40.6 mm) | |
| Adaptor diameters | Ø 1-5/8 in. (40.6 mm) to 2-1/2 in. (63 mm) | |
| Main materials | | |
| Work table | Aluminum | |
| Base | Aluminum | |
| Extension support | Aluminum | |
| Upper blade guard | Aluminum | |
| Lower blade guard | PC | |
| Slide bar | Steel | |
| Upper sliding fence | Aluminum | |
| Lower fixed fence | Aluminum | |
| Dimensions | | |
| Machine overall dimensions, LxWxH | 43-1/2 x 29-1/2 x 28-1/2 in. (1100 x 750 x 720 mm) | 47-1/2 x 30 x 30-5/8 in. (1200 x 760 x 780 mm) |
| Shipping dimensions, LxWxH | 37-3/8 x 24-7/8 x 14-1/2 in. (950 x 630 x 370 mm) | 41-3/4 x 26 x 17-3/8 in. (1060 x 660 x 440 mm) |

| Weights | | |
|---------------------------|-----------------|-----------------|
| Net weight (approx.) | 47 lbs. (21 kg) | 56 lbs. (25 kg) |
| Shipping weight (approx.) | 54 lbs. (24 kg) | 62 lbs. (28 kg) |

5.1 Cutting capacities

Table 2

| | | | JMS-10X | JMS-12X |
|-------------|-------------|-------------|----------------------------------|------------------------------|
| Type of cut | Miter angle | Bevel angle | Capacity | |
| Cross cut | 0° | 0° | 12 x 3-9/16 in. (305 x 90 mm) | 14 x 4.0 in. (355 x 100 mm) |
| Miter cut | 45° L & R | 0° | 8-1/2 x 3-9/16 in. (215 x 90 mm) | 10 x 4.0 in. (254 x 100 mm) |
| Bevel cut | 0° | 45° L | 12 x 1-9/16 in. (305 x 40 mm) | 14 x 2.0 in. (355 x 50 mm) |
| Bevel cut | 0° | 45° R | 12 x 1.0 in. (305 x 25 mm) | 14 x 1-3/8 in. (355 x 35 mm) |
| Compound | 45° L & R | 45° L | 8-1/2 x 1-9/16 in. (215 x 40 mm) | 10 x 2.0 in. (254 x 50 mm) |
| Compound | 45° L & R | 45° R | 8-1/2 x 1.0 in. (215 x 25 mm) | 10 x 1-3/8 in. (254 x 35 mm) |

¹ subject to local and national electrical codes.

² The specified values are emission levels and are not necessarily to be seen as safe operating levels. As workplace conditions vary, this information is intended to allow the user to make a better estimation of the hazards and risks involved only.

L = length, W = width, H = height

L & R = Left and Right

n/a = not applicable

The specifications in this manual were current at time of publication, but because of our policy of continuous improvement, JET reserves the right to change specifications at any time and without prior notice, without incurring obligations.

⚠WARNING Read and understand the entire contents of this manual before attempting assembly or operation. Failure to comply may cause serious injury.

6.0 Setup and assembly

6.1 Unpacking

Inspect contents for shipping damage or missing parts. If either is discovered, report it to your distributor.

Do not discard carton or packing material until saw is assembled and running satisfactorily.

6.2 Shipping contents

- 1 Miter saw
- 1 Dust bag
- 1 Dust port adaptor
- 1 Hold-down clamp assembly
- 3 Hex wrenches, 2.5/3/6 mm
(6mm wrench is preinstalled in rear handle)

6.3 Tools required for assembly

Hex wrenches – 2.5mm, 6mm

(Additional tools may be needed for adjustment procedures and securing the miter saw to a workbench.)

6.4 Transporting the saw

Observe the following safety measures to avoid injury from unexpected saw movement:

- Disconnect power cord and wrap it around the storage clips.
- Bring cutting head to forward position and down, and lock it in lower position.
- Lock slide carriage in place.
- Always use the carrying handles when lifting or moving to avoid damage to machine.
- Bend at the knees, not from the back.

6.5 Mounting saw to bench

For stationary use:

Select a location for the saw, such as the top of a workbench, that provides sufficient room for handling workpieces. Secure the saw to the bench. Mounting hardware is not included and must be purchased separately.

For portable use:

Place saw on a 3/4-in. thick piece of plywood and bolt the base securely to the plywood using the mounting holes on base. Mounting hardware is not included and must be purchased separately.

Use C-clamps to clamp this mounting board to a stable work surface at the worksite.

6.6 Releasing slide carriage

Loosen slide locking knob (A, Figure 8-1).

⚠CAUTION When transporting or storing miter saw, the slide carriage should always be locked in position.

6.7 Releasing cutting head

⚠WARNING When not in use, lock cutting head in down position. Failure to comply can cause serious injury or equipment damage.

1. Push down on operating handle.
2. Pull out on head release pin (B, Figure 6-1).
3. Raise cutting head to UP position.

Note: When not in use, lock cutting head in down position:

4. Pull out on head release pin (B) and bring cutting head down.
5. Push in head release pin (B) to lock.

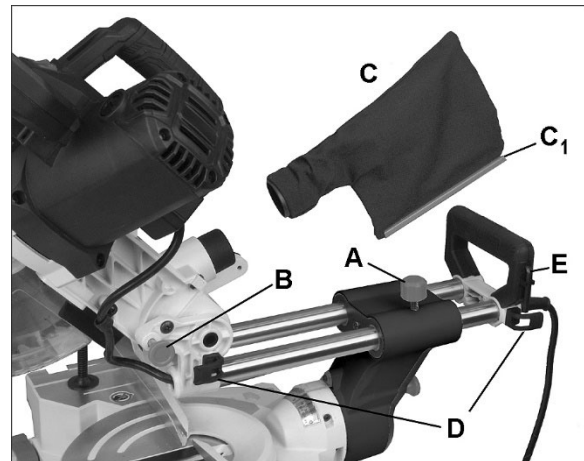


Figure 6-1

6.8 Dust extraction

6.8.1 Dust bag

Push dust bag onto exhaust port (Figure 6-1).

To empty dust bag, remove it from exhaust port, slide off plastic clip (C₁, Figure 6-1) and empty sawdust through bag opening. Reinstall clip before using dust bag.

Note: Inspect and empty bag frequently; do not wait for it to become full.

6.8.2 Adaptor

The adaptor can be used to convert the 1-5/8 in. diameter port to 2-1/2 in. diameter, for connection to a hose used with a shop vacuum or other dust collection system. Use a hose clamp to secure the dust hose (not provided) to the saw port.

6.9 Power cord storage clips

The slide carriage has two clips for cord storage when machine is not in use (D, Figure 6-1).

6.10 Saw blade wrench

The hex wrench used for blade changing is stored in the rear handle (E, Figure 6-1). The hex wrench also has a cross-point driver on its opposite end.

6.11 Installing hold-down

1. Insert hold-down post (F, Figure 6-2) into mounting hole located behind left or right fence.
2. Loosen knob (G) to raise or lower clamp support, then tighten knob.
3. Press button (H) to allow clamp to drop onto workpiece, then use knob (J) to tighten clamp against workpiece.

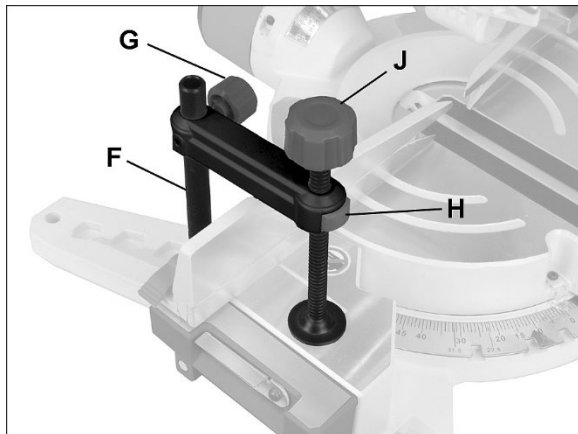


Figure 6-2

6.12 Removing/installing blade

⚠WARNING Disconnect power (unplug) to avoid accidental starts. Failure to comply may cause serious injury.

1. Unplug saw from electrical outlet.
2. Raise cutting head to upright position.
3. Raise lower blade guard to uppermost position and hold. See Figure 6-3.
4. Loosen cover plate screw (K, Figure 6-3) with provided crosspoint tool.

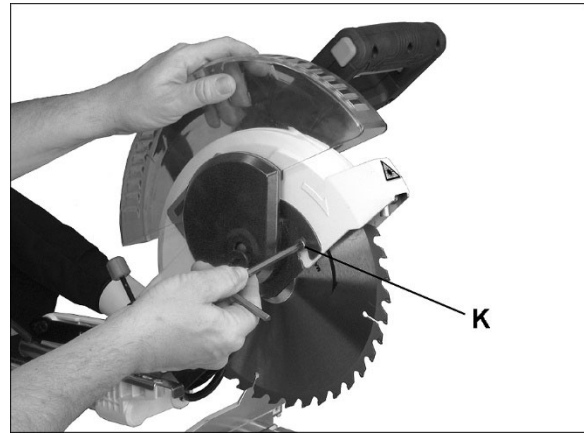


Figure 6-3

5. Allow cover plate and guard to fall backward, to expose arbor bolt (L, Figure 6-4).
6. Press and hold arbor lock on opposite side of head (Figure 6-5) while rotating blade until arbor lock engages.
7. Continue pressing arbor lock, while loosening arbor bolt with hex wrench. **NOTE:** Left-hand threads – turn *clockwise* to loosen.

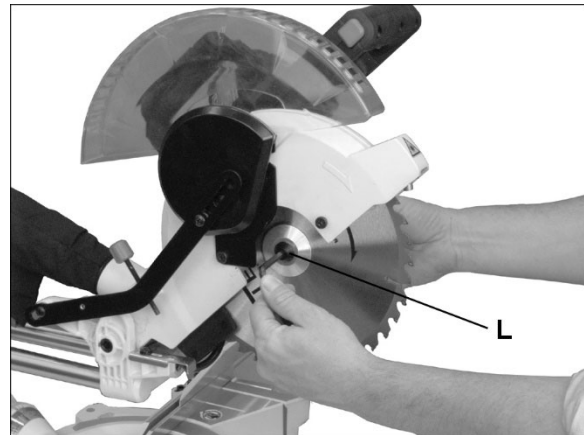


Figure 6-4

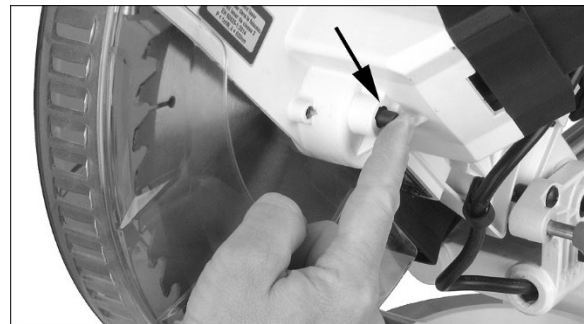


Figure 6-5

8. Remove arbor bolt, outer flange, and blade. (On model JMS-12X, also remove reducer sleeve). See Figure 6-6. Do not remove inner flange.

Note: Pay attention to the pieces removed, noting their position and direction they face. Wipe pieces clean of any sawdust before installing a new blade.

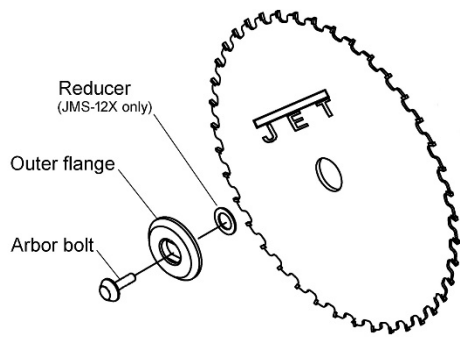


Figure 6-6

Important: Make sure blade size and arbor hole match specification of miter saw.

9. Install new blade. Rotation arrow on blade must match clockwise rotation arrow on upper guard, and the blade teeth must point downward.
10. Place flange outer flange against blade and on arbor. Thread arbor bolt onto arbor in *counterclockwise* direction.

Important: Make sure flat edge inside flange opening is aligned with flat edge on arbor shaft. Also, the flat -side of the flange must be placed against blade.

6. Press and hold arbor lock (Figure 6-5) while rotating blade until arbor lock engages.
7. Tighten arbor bolt.
8. Rotate cover plate back to original position, until slot in cover plate engages completely with cover plate screw (K, Figure 6-3). While holding lower blade guard up as shown in Figure 6-3, tighten screw.
9. Lower blade guard and verify that it operates smoothly without binding or sticking.

▲WARNING Never use saw without cover plate securely in place and screw tightened down. Failure to comply may cause serious injury.

If arbor bolt should accidentally loosen, the cover plate prevents it from falling out, and helps prevent the spinning blade from coming off the saw.

▲WARNING Verify that the flanges are clean and properly installed. Lower the blade into the table and verify that it does not come into contact with the base, table, or table inserts. Failure to comply may cause serious injury.

7.0 Electrical connections

▲WARNING To avoid electrical hazards, fire hazards, or damage to the machine, use proper circuit protection. Your saw is wired at the factory for 115V operation. Connect to a 120V, 15 Amp circuit and use a 15 amp time delay fuse or circuit breaker. If power cord is worn or cut, or damaged in any way, have it replaced immediately to avoid shock or fire.

Before connecting to power source, be sure switch is in *off* position.

This machine is double insulated to provide a double thickness of insulation between the user and the machine's electrical system. All exposed metal parts are isolated from the internal metal motor components with protective insulation.

This saw has a plug that looks like the one shown in Figure 7-1.

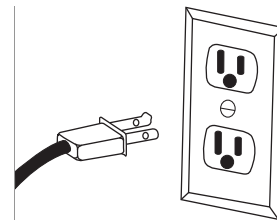


Figure7-1

To reduce the risk of electrical shock, this saw has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way; if the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not alter the plug in any way.

Double insulation does not take the place of normal safety precautions when operating this tool.

To avoid electrocution:

1. Use only identical replacement parts when servicing a tool with double insulation. Servicing should be performed by a qualified technician.
2. Do not use power tools in wet or damp locations or expose them to rain or snow.

7.1 Extension cords

The use of extension cords is discouraged; try to position equipment within reach of the power source. If an extension cord becomes necessary, be sure it is heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

Table 3 shows recommended size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

| Cord length | Wire gauge (AWG) |
|-------------|------------------|
| 0 – 25 ft. | 16 |
| 25- 50 ft. | 14 |

Table 3

Important: Make certain the receptacle in question is properly grounded. If you are not sure, have a registered electrician check the receptacle.

8.0 Adjustments

Note: Your miter saw was adjusted by the manufacturer. However, during shipment slight misalignment may have occurred. Check the following settings and adjust if necessary prior to using this miter saw.

8.1 Support foot

The foot (A, Figure 8-1) can be turned in or out to adjust its height. It is designed to provide support for the miter table when locking handle is pushed down or when cutting head is brought forward for slide-cutting. The foot should be adjusted to contact surface of bench or worktable.

8.2 Miter angle setting

The miter scale shows miter angles from 0° to 52° to the left, and 0° to 60° to the right.

To set miter angle:

1. Lift up on miter lock handle (B, Figure 8-1) to unlock table.
2. Press and hold release button (C) and use miter lock handle to push cutting arm until desired degree aligns with angle indicator (D).
3. Push down miter lock handle (B) to lock the position.

Note: The release button (C) can be continuously engaged to bypass the stops. This is convenient when frequent and quick adjustment of miter angles is needed.

1. Push down release button (C) and push in pin (E). Release button is now continuously engaged.
2. Grasp handle (B) and freely rotate cutting arm.
3. Press release button (C) again to disengage pin.

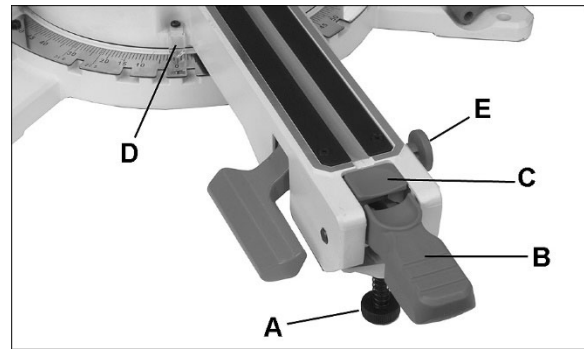


Figure 8-1: selecting miter angles

8.2.1 Miter positive stop selection

The miter saw table has preset stops for quick and accurate positioning at common angle settings of 0°, 15°, 22.5°, 31.6°, and 45° left and right; and 60° right.

1. Lift up on miter lock handle (B, Figure 8-1) to unlock table.
2. Press release button (C) and move table with handle (B). As scale indicator approaches the desired degree, release the button (C). The table will engage the next positive stop.
3. Push down miter lock handle (B) to lock the position.

8.2.2 Miter scale indicator alignment

1. Rotate table to the 0° stop.
2. If indicator (D, Figure 8-1) does not align with zero on scale, loosen screw and adjust indicator to 0° mark. Retighten screw.

8.3 Table extensions and work stop

Pull up lock handle (H, Figure 8-2) and slide table extension outward, as shown. Push down lock handle to secure position.

Raise workstop (J) for quick positioning of stock when cutting multiple pieces of equal length.

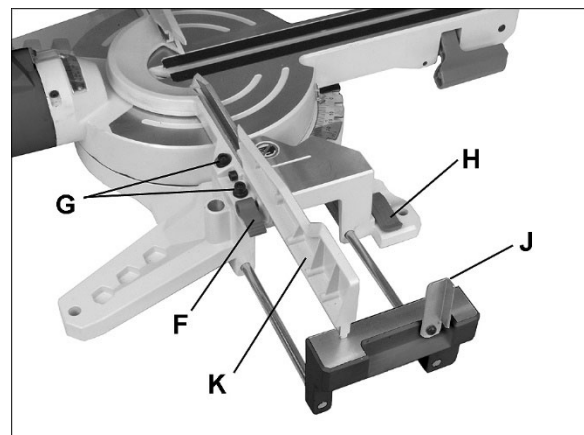


Figure 8-2

8.4 Fence adjustment

⚠WARNING The fence extensions must be extended to left or right, or removed entirely, when making bevel cuts, to prevent blade or guard obstruction. Failure to comply may cause serious injury.

Failure to extend the fence will not allow enough space for the blade to pass through. This could result in serious injury. At extreme miter or bevel angles the saw blade may also contact the fence resulting in damage to equipment as well as personal injury.

IMPORTANT: Make a “dry run” of the cut, including downward and sliding paths, and resolve any potential fence obstructions before turning on the saw.

To adjust fence:

1. Raise lock handle (F, Figure 8-2) to unlock fence extension.
2. Slide fence extension (K) outward to accommodate desired bevel angle, or slide it completely off.
3. Push down lock handle (F) to tighten fence extension in position.

Note: Secure fence extensions in position closest to saw blade when transporting the miter saw.

8.4.1 Checking fence squareness

1. Unplug saw from electrical outlet.
2. Loosen four fence locking screws (G, Figure 8-2). Note: Two locking screws to each fence.
3. Lower cutting head and lock in position.
4. Place a combination square against fence and blade, as shown in Figure 8-3.



Figure 8-3

5. Adjust fence square to blade and tighten the four fence locking screws (G, Figure 8-2).
6. After fence has been aligned, use a scrap piece of wood to make a cut at 90°, then check squareness of the piece. Readjust if necessary.

8.5 Bevel adjustments

8.5.1 90° (zero) bevel stop adjustment

1. Unplug saw from electrical outlet.
2. Pull up bevel lock handle (A, Figure 8-4) to unlock tilt mechanism.
3. Pull out on bevel pin (B, Figure 8-4) and tilt cutting arm to 90° position (0° on bevel scale) against positive stop.
4. Push down lock handle (A) to secure cutting head angle.

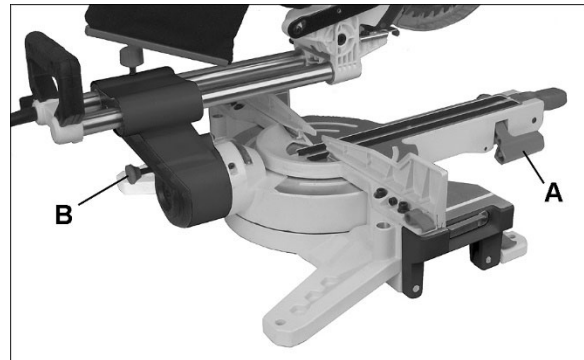


Figure 8-4

NOTE: If lock handle (A) is disengaged and bevel pin (B) has been pulled out, but cutting head still refuses to tilt, the lock nut may have been overtightened for shipping purposes. Remove three screws and open rear cover (see Figure 8-5). Slightly loosen lock nut (N, Figure 8-5) with wrench. Reinstall rear cover. This adjustment is *only if necessary*.

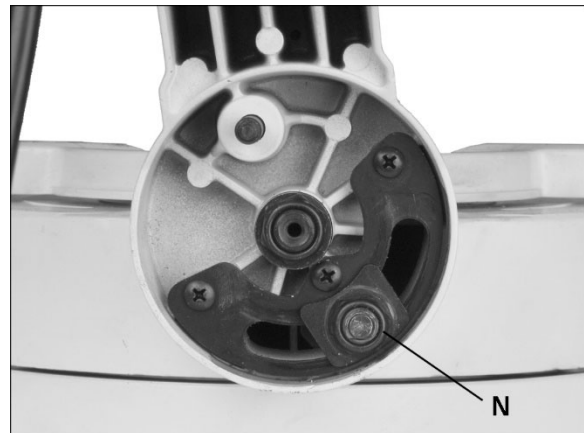


Figure 8-5

5. Place a combination square flat on the table and against blade, as shown in Figure 8-6. **Note:** Position the square flush against main blade surface, not against a projecting blade tooth.

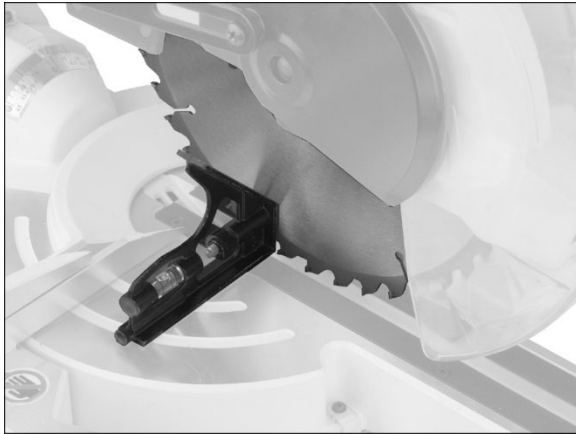


Figure 8-6

6. If blade is not 90° to miter table (i.e. square does not sit flush against both surfaces), turn right set screw (E, Figure 8-7) in or out until blade is 90° to table.
7. If needed, loosen screw (D, Figure 8-7) and adjust bevel angle indicator to align with zero on scale. Retighten screw.

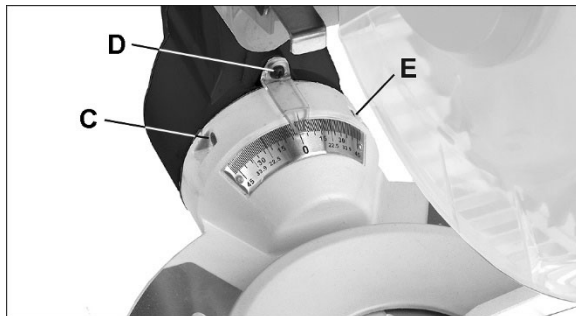


Figure 8-7

8.5.2 45° bevel stop adjustment

1. Unplug saw from electrical outlet.
2. Make sure 90-degree bevel stop is accurate (sect. 8.5.1).
3. Set miter angle to zero degrees. Fully extend both sliding fences to prevent obstruction.
4. Pull up bevel lock handle (A, Figure 8-4).
5. Pull out bevel lock pin (B, Figure 8-4) and tilt cutting head to 45-degrees left. The cutting head should stop at the 45-degree mark on scale.
10. If adjustment is needed, turn left set screw (C) as needed to bring cutting head to 45-degree mark on scale. Verify the setting using a 45-degree angle tool on the table and against blade.

Note: The left set screw (C, Figure 9-7) may be used instead to set a different angle stop, less than 45°, that is used frequently by the operator.

The right 45° tilt stop will have already been established when the 90° setting is calibrated in sect. 8.5.1.

8.6 Depth adjustment

Cutting depth can be pre-set for even and repetitive shallow cuts, such as slots or dadoes.

1. Raise cutting head.
2. Loosen screw (F, Figure 8-8) and slide plate (G) outward. Retighten screw.
3. Pull cutting head down until blade teeth are at desired depth of cut.
4. Hold cutting head in this position and turn stop screw (H) until it touches plate (G).
5. Rotate knurled nut (J) against casting to secure setting.
6. Recheck blade depth by moving cutting head front to back through the full motion of a typical cut along the control arm.

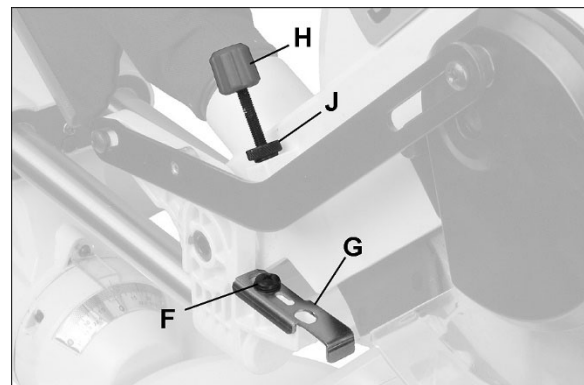


Figure 8-8

9.0 Operation

⚠WARNING Before operating miter saw, make sure that you have read and thoroughly understand all safety instructions in sect. 1.0. Failure to comply may result in serious injury.

Before operating miter saw, verify that blade will not be obstructed. Remove fence extensions if needed. Failure to comply may result in serious injury and/or damage to saw.

Make sure all locking handles function properly. A malfunctioning locking handle can present a safety hazard.

9.1 LED light

Use rocker switch atop handle to turn light on and off. See Figure 4-1.

9.2 Laser guide

⚠WARNING Laser radiation. Avoid direct eye exposure. The use of optical instruments with this product will increase eye hazard. Refer to Figure 9-1.



Figure 9-1

Use rocker switch atop handle to turn laser guide on and off (see Figure 4-1). The laser must align with blade cutting path.

The laser has no user-adjustments. If you suspect realignment is necessary, take the miter saw to an approved service center.

⚠WARNING Do not attempt to repair or disassemble the laser. If unqualified persons attempt to repair this laser product, serious injury may result. Any repair or adjustment required on this laser product should be performed by authorized service center personnel.

9.3 General saw operation

9.3.1 Starting the cut

1. Set desired bevel and/or miter angles and lock the settings. See *sect. 8.2* and *8.5*.
2. Place hands a safe distance away from blade path.
3. Hold workpiece firmly against fence to prevent it creeping toward blade. Use hold-down clamp whenever possible.
4. Perform a “dry run” – bring blade down to workpiece to confirm cutting path of blade, and ensure that no obstacles are present. If needed, slide the fence extension(s) away or remove them entirely.
5. Position blade just above the workpiece. Press release button on either left or right side of operating handle, and press trigger (see Figure 4-1) to start saw. *Blade must NOT be contacting workpiece when trigger is pressed.*
6. Lower blade into workpiece with a firm downward motion.

9.3.2 Finishing the cut

7. Hold cutting head in down position.
8. Release trigger and wait for all moving parts to stop before moving your hands and raising cutting arm.

Note: The miter saw is equipped with an electrical blade brake. When trigger is released, the brake will automatically stop the blade in approximately 3 seconds.

9.4 Jammed material

If a jam occurs, release trigger and wait for all moving parts to stop. *Unplug saw* and remove jammed items.

9.5 Cutting options

9.5.1 Chop cuts

For chop cutting operations on small workpieces, slide cutting head completely toward rear of unit and tighten slide lock knob (A, Figure 8-1). Follow general cutting procedures of *sect. 9.3*.

9.5.2 Sliding cuts

To cut wide boards, loosen slide lock knob (A, Figure 8-1) to allow cutting head to slide freely. See specifications for maximum slide capacity of your saw.

⚠WARNING Observe these precautions:

- Never pull cutting head assembly and spinning blade toward you during the cut.
- Allow blade to reach full speed before cutting.
- Extend fence by sliding it out to required location, or
- Remove right sliding fence if necessary.
- Return carriage to full rear position after each crosscut operation.

To crosscut boards that are wider than the length of the saw blade, proceed as follows:

1. Set desired bevel and/or miter angles and lock the settings. See *sect. 8.2* and *8.5*.
2. Position workpiece against fence and clamp it to the table.
3. Loosen slide lock knob (A, Figure 8-1).
4. Grasp operating handle and pull cutting head forward until center of saw blade is over front of workpiece.
5. Press release button and trigger to turn on saw.
6. When saw reaches full speed, push handle down slowly, cutting through leading edge of workpiece.
7. Slowly push operating handle back toward fence to complete the cut. Do not use excessive force; allow blade to do the cutting.
8. Release trigger and allow blade to stop spinning before allowing cutting head to rise.

9.5.3 Miter cutting

Rotate table to desired miter angle as shown on miter scale. Refer to *sect. 8.2*.

The miter setting can be locked down at any angle from 52° left to 60° right.

Miter stops are provided at common angles of 0°, 15°, 22.5°, 31.6°, 45° left and right, and 60° right.

Always push down miter lock handle (B, Figure 8-1) to secure table in position.

9.5.4 Bevel cutting

Tilt cutting head to desired angle as shown on bevel scale. Refer to *sect. 8.5.1*.

The blade can be tilted at any angle, from 90° straight cut (0° on scale) to 45° left and right bevel. Always push down bevel lock handle (A, Figure 9-4) to secure cutting head in position.

Bevel positive stops are provided at 0° and 45° left and right.

9.5.5 Compound cuts

A compound cut involves both miter and bevel angles in the same operation.

The charts in *sect. 11.0* show miter and bevel settings for specific angles of compound cuts.

9.6 Cutting bowed material

A curved or warped workpiece must be secured against the fence and with a clamping device used. To help prevent binding, place convex side of workpiece against fence. An extremely warped piece should not be used.

9.7 Rough cutting a dado

1. Mark lines identifying width and depth of desired cut on the workpiece and position on the table so that inside tip of blade is positioned on the line. Use hold down clamp to secure workpiece.
2. Set cutting depth as described in *sect. 8.6*.
3. Cut two parallel grooves, then remove the material between them.

9.8 Base molding

Base moldings and many other moldings can be cut on a compound miter saw. The setup of the saw depends on molding characteristics and application. Perform practice cuts on scrap material to achieve best results.

- Make sure that moldings rest firmly against fence and table. Use hold-down, crown molding vise or C-clamps, whenever possible, and place tape on the area being clamped to avoid marks.
- Reduce splintering by taping the cut area prior to making the cut. Mark the cut line directly on the tape.
- Splintering typically happens due to an incorrect blade application and thinness of the material.

Note: Always perform a dry run cut so you can determine if the operation being attempted is possible before power is applied to the saw.

9.9 Crown molding

Your compound miter saw is suited for the difficult task of cutting crown molding. To fit properly, crown molding must be compound-mitered with extreme accuracy. The two surfaces on a piece of crown molding that fit flat against the ceiling and wall are at angles that, *when added together, equal exactly 90°*.

Most crown molding has a top rear angle (the section that fits flat against the ceiling) of 52° and a bottom rear angle (the section that fits flat against the wall) of 38°.

In order to accurately cut crown molding for a 90° inside or outside corner, lay the molding with its broad back surface flat on the saw table.

When setting the bevel and miter angles for compound miters, remember that the settings are interdependent – changing one changes the other.

10.0 User-maintenance

⚠WARNING Always disconnect power to the machine (unplug) before performing maintenance. Failure to comply may result in serious personal injury.

Never use gasoline or any highly volatile solvents to clean the miter saw.

Use only replacement parts that are identical to the parts list at the end of this manual and reassemble exactly as the original assembly to avoid electrical shock.

10.1 General cleaning

- Wipe off machine with a dry cloth. Use a bristle brush for hard-to-reach areas.
- Vacuum or blow out motor air vents.

⚠WARNING Wear proper eye and respiratory protection when using compressed air.

- Periodically, saw dust will accumulate under saw table and base. This could cause difficulty in the movement of the table when setting up a miter cut. Frequently blow out or vacuum up the saw dust. Turn saw over and blow out dust from beneath saw table.
- Wipe dust/debris off the slide bars.
- Clean out the fence extension trackways.
- Remove table inserts to clear away any small pieces beneath. Reinstall table inserts before operating.

10.2 Lower Blade Guard

Do not use saw without lower blade guard. The lower blade guard is attached to the saw for your protection. Should the lower guard become damaged, do not use saw until the damaged guard has been replaced. Develop a regular check to make sure the lower guard is working properly. Clean the lower guard of any dust or buildup with a damp cloth.

⚠WARNING When cleaning lower guard, unplug saw from power source receptacle to avoid unexpected startup.

⚠WARNING Do not use solvents on lower blade guard; they could make the plastic “cloudy” and brittle.

10.3 Lubrication

All motor bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions; therefore, no further lubrication is required.

Lubricate the following as necessary. Use a light household oil, such as sewing machine oil. Avoid excessive oil, to which saw dust will cling.

- Chop pivot and spring.
- Central pivot of plastic guard: Use light machine oil on metal-to-metal or metal-to-plastic guard contact areas as required for smooth, quiet operation.
- Table extension rods.

10.4 Commutator brush inspection

To maintain motor efficiency, inspect the two carbon brushes every two months, or more frequently if saw is heavily used. Stalling or loss of power may be a symptom of worn carbon brushes. If one brush is worn out, replace both at the same time.

⚠CAUTION Continued use of damaged or worn brushes may result in damage to motor armature.

1. Unplug saw from power source.
2. Unscrew and remove cap with a flat blade screwdriver. See Figure 10-1. Note: Unscrew cap cautiously – the brush spring will push it out.

3. Pull out brush assembly. Notice orientation of brush as you remove it; it should be inserted in the same manner; curvature of brush will match curvature of motor. (This will avoid a break-in period that reduces motor performance and increases wear.)
4. Inspect brush; it should be replaced if any of the following are discovered:
 - Brush has worn to about 1/4-inch long.
 - Signs of crumbling, burning or breaking.
 - End of brush is rough or pitted.
 - Abnormal coloration of spring
 - Broken lead in spring
 - Collapsed spring
5. Install new brush (or reinstall current brush) and gently press it all the way into hole.
6. Install cap snugly, but do not overtighten.
7. Repeat for other brush.

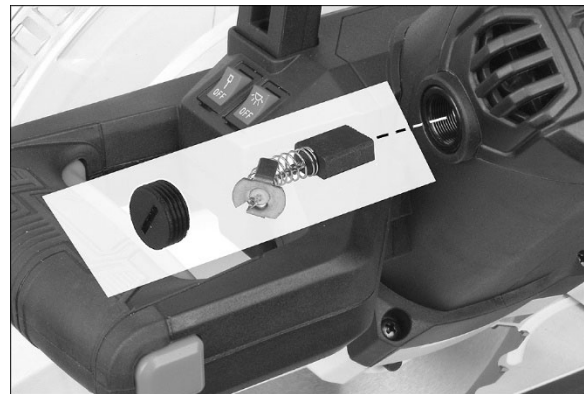


Figure 10-1

10.5 Additional servicing

Any additional servicing should be performed by authorized service personnel.

11.0 Crown molding charts

11.1 Crown molding: 90° wall angles

Crown molding compound cut with 90° walls.

| Type of Cut | Key | Bevel Setting | Miter Setting | Procedure |
|-----------------------------|-----|---------------|---------------|---|
| Inside corner – Left Side | IL | 33.9° | 31.6° Right | <ol style="list-style-type: none"> 1. Position top of molding against fence. 2. Miter table set at RIGHT 31.6°. 3. LEFT side is finished piece. |
| Inside corner – Right Side | IR | 33.9° | 31.6° Left | <ol style="list-style-type: none"> 1. Position bottom of molding against fence. 2. Miter table set at LEFT 31.6°. 3. LEFT side is finished piece. |
| Outside corner – Left Side | OL | 33.9° | 31.6° Left | <ol style="list-style-type: none"> 1. Position bottom of molding against fence. 2. Miter table set at LEFT 31.6°. 3. RIGHT side is finished piece. |
| Outside corner – Right Side | OR | 33.9° | 31.6° Right | <ol style="list-style-type: none"> 1. Position top of molding against fence. 2. Miter table set at RIGHT 31.6°. 3. RIGHT side is finished piece |

Table 4

11.2 Crown molding: various wall angles

Compound *miter* and *bevel* angle settings for wall-to-crown molding angles.

| Angle Between Walls | 52/38° Crown Molding | | 45/45° Crown Molding | |
|---------------------|----------------------|---------------|----------------------|---------------|
| | Miter Setting | Bevel Setting | Miter Setting | Bevel Setting |
| 67 | 42.93 | 41.08 | 46.89 | 36.13 |
| 68 | 42.39 | 40.79 | 46.35 | 35.89 |
| 69 | 41.85 | 40.50 | 45.81 | 35.64 |
| 70 | 41.32 | 40.20 | 45.28 | 35.40 |
| 71 | 40.79 | 39.90 | 44.75 | 35.15 |
| 72 | 40.28 | 39.61 | 44.22 | 34.89 |
| 73 | 39.76 | 39.30 | 43.70 | 34.64 |
| 74 | 39.25 | 39.00 | 43.18 | 35.38 |
| 75 | 38.74 | 38.69 | 42.66 | 34.12 |
| 76 | 38.24 | 38.39 | 42.15 | 33.86 |
| 77 | 37.74 | 38.08 | 41.64 | 33.60 |
| 78 | 37.24 | 37.76 | 41.13 | 33.33 |
| 79 | 36.75 | 37.45 | 40.62 | 33.07 |
| 80 | 36.27 | 37.13 | 40.12 | 32.80 |
| 81 | 35.79 | 36.81 | 39.62 | 32.53 |
| 82 | 35.31 | 36.49 | 39.13 | 32.25 |
| 83 | 34.83 | 36.17 | 38.63 | 31.98 |
| 84 | 34.36 | 35.85 | 38.14 | 31.70 |
| 85 | 33.90 | 35.52 | 37.66 | 31.42 |
| 86 | 33.43 | 35.19 | 37.17 | 31.14 |
| 87 | 32.97 | 34.86 | 36.69 | 30.86 |
| 88 | 32.52 | 34.53 | 36.21 | 30.57 |
| 89 | 32.07 | 34.20 | 35.74 | 30.29 |
| 90 | 31.62 | 33.86 | 35.26 | 30.00 |
| 91 | 31.17 | 33.53 | 34.79 | 29.71 |
| 92 | 30.73 | 33.19 | 34.33 | 29.42 |
| 93 | 30.30 | 32.86 | 33.86 | 29.13 |
| 94 | 29.86 | 32.51 | 33.40 | 28.83 |
| 95 | 29.43 | 32.17 | 32.94 | 28.54 |
| 96 | 29.00 | 31.82 | 32.48 | 28.24 |
| 97 | 28.58 | 31.48 | 32.02 | 27.94 |
| 98 | 28.16 | 31.13 | 31.58 | 27.64 |
| 99 | 27.74 | 30.78 | 31.13 | 27.34 |
| 100 | 27.32 | 30.43 | 30.68 | 27.03 |
| 101 | 26.91 | 30.08 | 30.24 | 26.73 |
| 102 | 26.50 | 29.73 | 29.80 | 26.42 |
| 103 | 26.09 | 29.38 | 29.36 | 26.12 |
| 104 | 25.69 | 29.02 | 28.92 | 25.81 |
| 105 | 25.29 | 28.67 | 28.48 | 25.50 |
| 106 | 24.89 | 28.31 | 28.05 | 25.19 |
| 107 | 24.49 | 27.96 | 27.62 | 24.87 |
| 108 | 24.10 | 27.59 | 27.19 | 24.56 |
| 109 | 23.71 | 27.23 | 26.77 | 24.24 |
| 110 | 23.32 | 26.87 | 26.34 | 23.93 |
| 111 | 22.93 | 26.51 | 25.92 | 23.61 |
| 112 | 22.55 | 26.15 | 25.50 | 23.29 |
| 113 | 22.17 | 25.78 | 25.08 | 22.97 |
| 114 | 21.79 | 25.42 | 24.66 | 22.66 |
| 115 | 21.42 | 25.05 | 24.25 | 22.33 |
| 116 | 21.04 | 24.68 | 23.84 | 22.01 |
| 117 | 20.67 | 24.31 | 23.43 | 21.68 |
| 118 | 20.30 | 23.94 | 23.02 | 21.36 |
| 119 | 19.93 | 23.57 | 22.61 | 21.03 |
| 120 | 19.57 | 23.20 | 22.21 | 20.70 |
| 121 | 19.20 | 22.83 | 21.80 | 20.38 |
| 122 | 18.84 | 22.46 | 21.40 | 20.05 |
| 123 | 18.48 | 22.09 | 21.00 | 19.72 |
| 124 | 18.13 | 21.71 | 20.61 | 19.39 |
| 125 | 17.77 | 21.34 | 20.21 | 19.06 |
| 126 | 17.42 | 20.96 | 19.81 | 18.72 |
| 127 | 17.06 | 20.59 | 19.42 | 18.39 |
| 128 | 16.71 | 20.21 | 19.03 | 18.06 |
| 129 | 16.37 | 19.83 | 18.64 | 17.72 |
| 130 | 16.02 | 19.45 | 18.25 | 17.39 |
| 131 | 15.67 | 19.07 | 17.86 | 17.05 |
| 132 | 15.33 | 18.69 | 17.48 | 16.71 |
| 133 | 14.99 | 18.31 | 17.09 | 16.38 |
| 134 | 14.66 | 17.93 | 16.71 | 16.04 |
| 135 | 14.30 | 17.55 | 16.32 | 15.70 |
| 136 | 13.97 | 17.17 | 15.94 | 15.36 |
| 137 | 13.63 | 16.79 | 15.56 | 15.02 |
| 138 | 13.30 | 16.40 | 15.19 | 14.62 |
| 139 | 12.96 | 16.02 | 14.81 | 14.34 |
| 140 | 12.63 | 15.64 | 14.43 | 14.00 |
| 141 | 12.30 | 15.25 | 14.06 | 13.65 |
| 142 | 11.97 | 14.87 | 13.68 | 13.31 |
| 143 | 11.64 | 14.48 | 13.31 | 12.97 |
| 144 | 11.31 | 14.09 | 12.94 | 12.62 |
| 145 | 10.99 | 13.71 | 12.57 | 12.29 |
| 146 | 10.66 | 13.32 | 12.20 | 11.93 |
| 147 | 10.34 | 12.93 | 11.83 | 11.59 |
| 148 | 10.01 | 12.54 | 11.46 | 11.24 |
| 149 | 9.69 | 12.16 | 11.09 | 10.89 |
| 150 | 9.37 | 11.77 | 10.73 | 10.55 |
| 151 | 9.05 | 11.38 | 10.36 | 10.20 |
| 152 | 8.73 | 10.99 | 10.00 | 9.85 |
| 153 | 8.41 | 10.60 | 9.63 | 9.50 |
| 154 | 8.09 | 10.21 | 9.27 | 9.15 |
| 155 | 7.77 | 9.82 | 8.91 | 8.80 |
| 156 | 7.46 | 9.43 | 8.55 | 8.45 |
| 157 | 7.14 | 9.04 | 8.19 | 8.10 |
| 158 | 6.82 | 8.65 | 7.83 | 7.75 |
| 159 | 6.51 | 8.26 | 7.47 | 7.40 |
| 160 | 6.20 | 7.86 | 7.11 | 7.05 |
| 161 | 5.88 | 7.47 | 6.75 | 6.70 |
| 162 | 5.57 | 7.08 | 6.39 | 6.35 |
| 163 | 5.26 | 6.69 | 6.03 | 6.00 |
| 164 | 4.95 | 6.30 | 5.68 | 5.65 |
| 165 | 4.63 | 5.90 | 5.32 | 5.30 |
| 166 | 4.32 | 5.51 | 4.96 | 4.94 |
| 167 | 4.01 | 5.12 | 4.61 | 4.59 |
| 168 | 3.70 | 4.72 | 4.25 | 4.24 |
| 169 | 3.39 | 4.33 | 3.90 | 3.89 |
| 170 | 3.08 | 3.94 | 3.54 | 3.53 |
| 171 | 2.77 | 3.54 | 3.19 | 3.10 |
| 172 | 2.47 | 3.15 | 2.83 | 2.83 |
| 173 | 2.15 | 2.75 | 2.48 | 2.47 |
| 174 | 1.85 | 2.36 | 2.12 | 2.12 |
| 175 | 1.54 | 1.97 | 1.77 | 1.77 |
| 176 | 1.23 | 1.58 | 1.41 | 1.41 |
| 177 | 0.92 | 1.18 | 1.06 | 1.06 |
| 178 | 0.62 | 0.79 | 0.71 | 0.71 |
| 179 | 0.31 | 0.39 | 0.35 | 0.35 |

Table 5

12.0 Troubleshooting JMS-10X,12X Miter Saws

| Symptom | Possible Cause | Correction * |
|--|--|---|
| Motor will not start | No incoming power. | Check plug connection to receptacle. If satisfactory, check electrical panel for blown fuse or tripped breaker – replace fuse or reset breaker. |
| | Low voltage. | Correct the low voltage conditions. |
| | Faulty power cord or plug. | Have cord and plug inspected by a qualified service center. |
| | Open circuit in motor or loose connection. | Have motor inspected by a qualified service center. |
| Motor will not start: fuse blows or circuit breaker trips. | Short circuit in line cord or plug. | Inspect cord or plug for damaged insulation and shorted wires. |
| | Open circuit in motor or loose connection. | Have motor inspected by a qualified service center. |
| | Incorrect fuses or circuit breakers in power line. | Install correct fuses or circuit breakers. |
| Motor overheats. | Motor overloaded. | Reduce pressure on workpiece. Allow saw to cool down before restarting. |
| | Extension cord too long or not proper gauge. | Use shorter extension cord, or larger gauge. |
| | Air circulation through motor is restricted. | Blow out motor vents with compressed air to restore normal air circulation. |
| Motor stalls, or fails to reach full speed. | Motor overloaded. | Reduce pressure on workpiece. |
| | Improper extension cord. | Use proper extension cord. |
| | Low voltage. | Correct the low voltage conditions. |
| | Air circulation through motor is restricted. | Blow out motor vents with compressed air to restore normal air circulation. |
| | Motor failure. | Have motor inspected by a qualified service center. |
| | Incorrect fuses or circuit breakers in power line. | Install correct fuses or circuit breakers. |
| Machine slows when operating. | Applying too much pressure to workpiece. | Feed workpiece more slowly. |
| Cuts not square. | Fence not parallel to blade | Align fence square to blade. |
| | 90-degree stop is misaligned. | Adjust 90-degree stop. |
| Poor cutting performance. | Blade is dull. | Sharpen or replace blade. |
| | Workpiece is creeping during cut. | Adjust hold-down for better clamping. |
| | Blade not appropriate for material being cut. | Use proper blade for selected material. |
| Blade coasts after trigger is released. | Electrical blade brake malfunction. | Have saw inspected by a qualified service center. |

Table 6

***Warning:** Some corrections may require a qualified electrician.

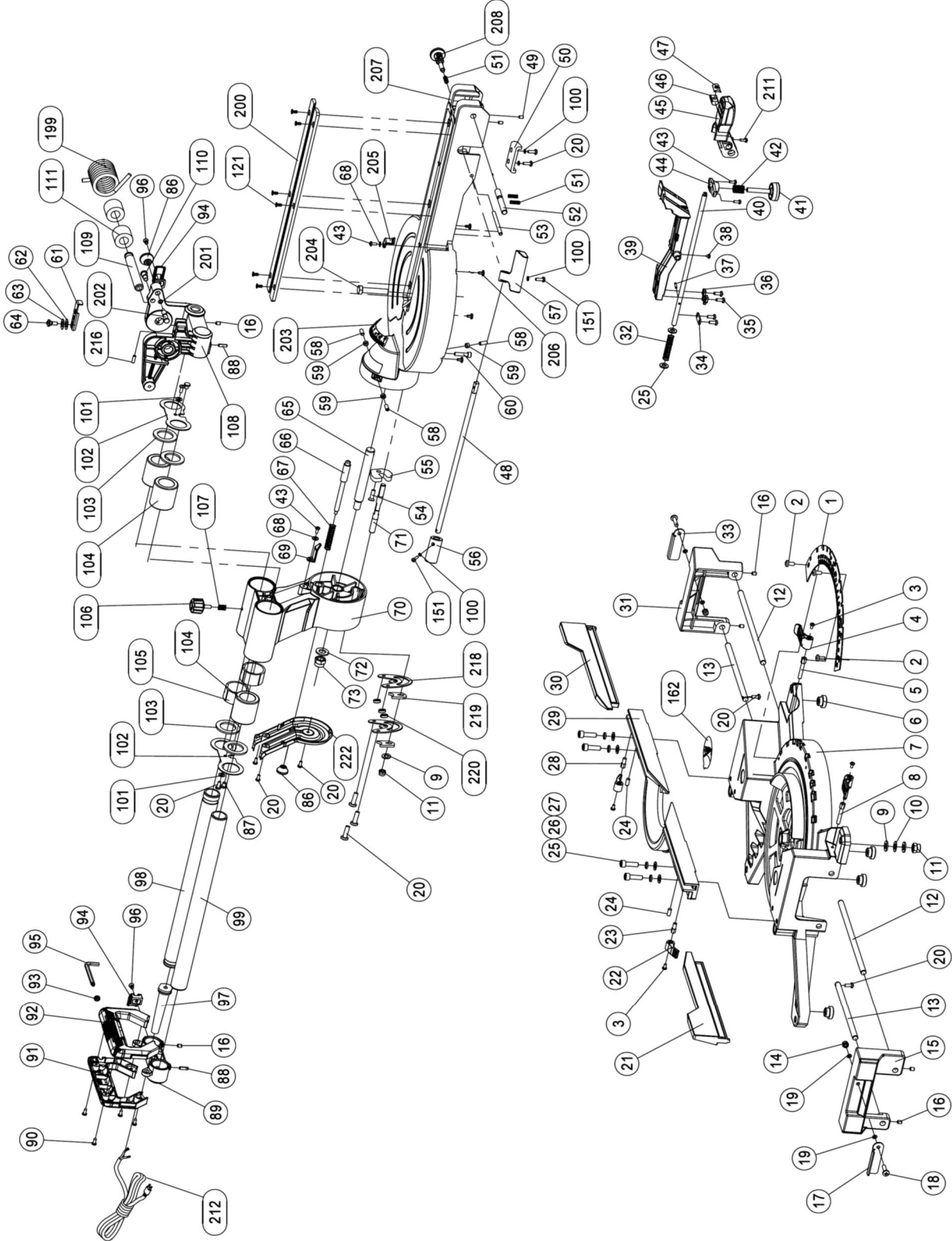
13.0 Replacement Parts

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday, 8:00 a.m. to 5:00 p.m. CST. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

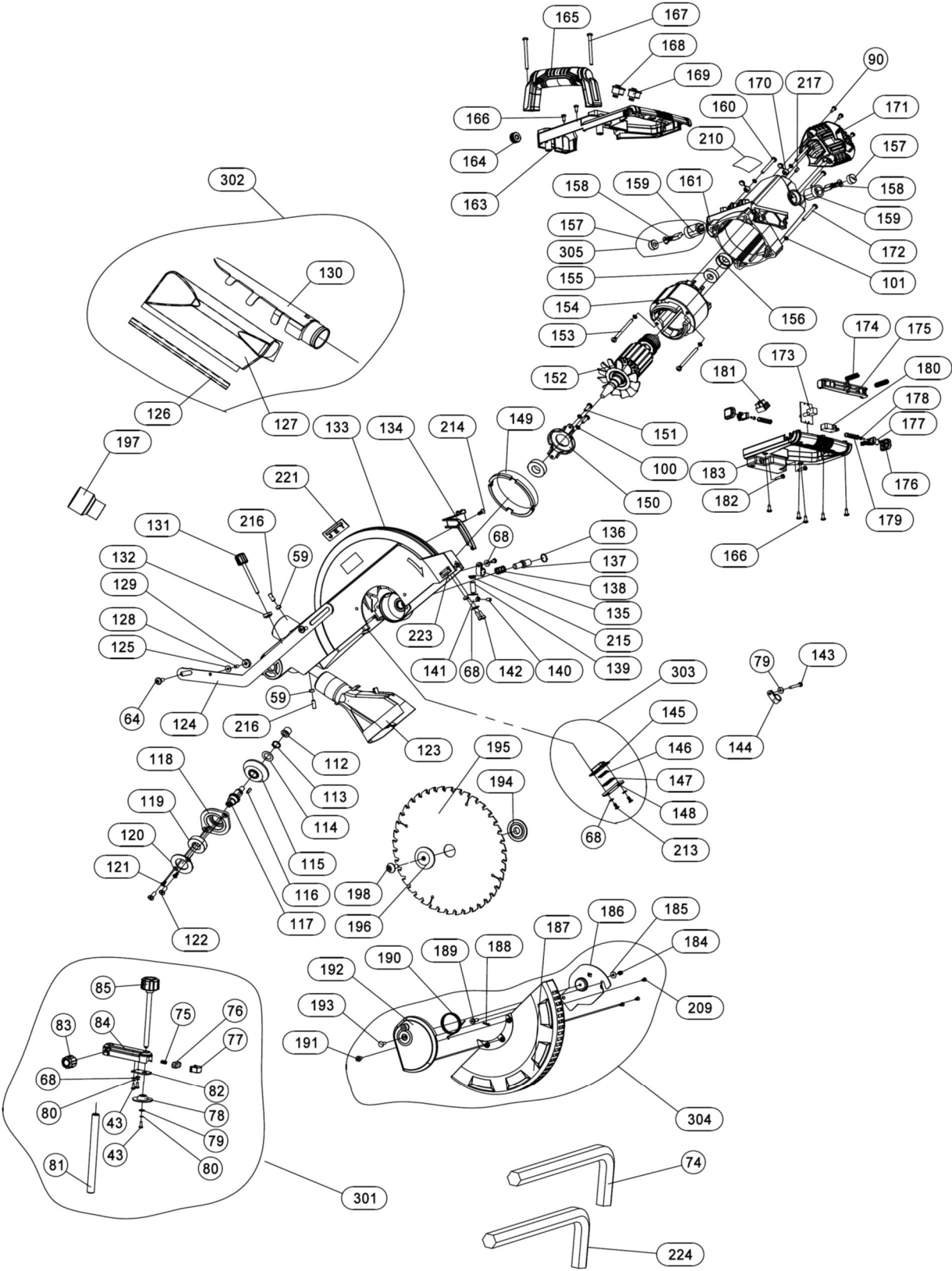
Non-proprietary parts, such as fasteners, can be found at local hardware stores, or may be ordered from JET.

Some parts are shown for reference only, and may not be available individually.

13.1.1 JMS-10X (#707210) – Miter Saw Assembly – Exploded View I



13.1.2 JMS-10X (#707210) – Miter Saw Assembly – Exploded View II



13.1.3 JMS-10X (#707210) – Miter Saw Assembly – Parts List

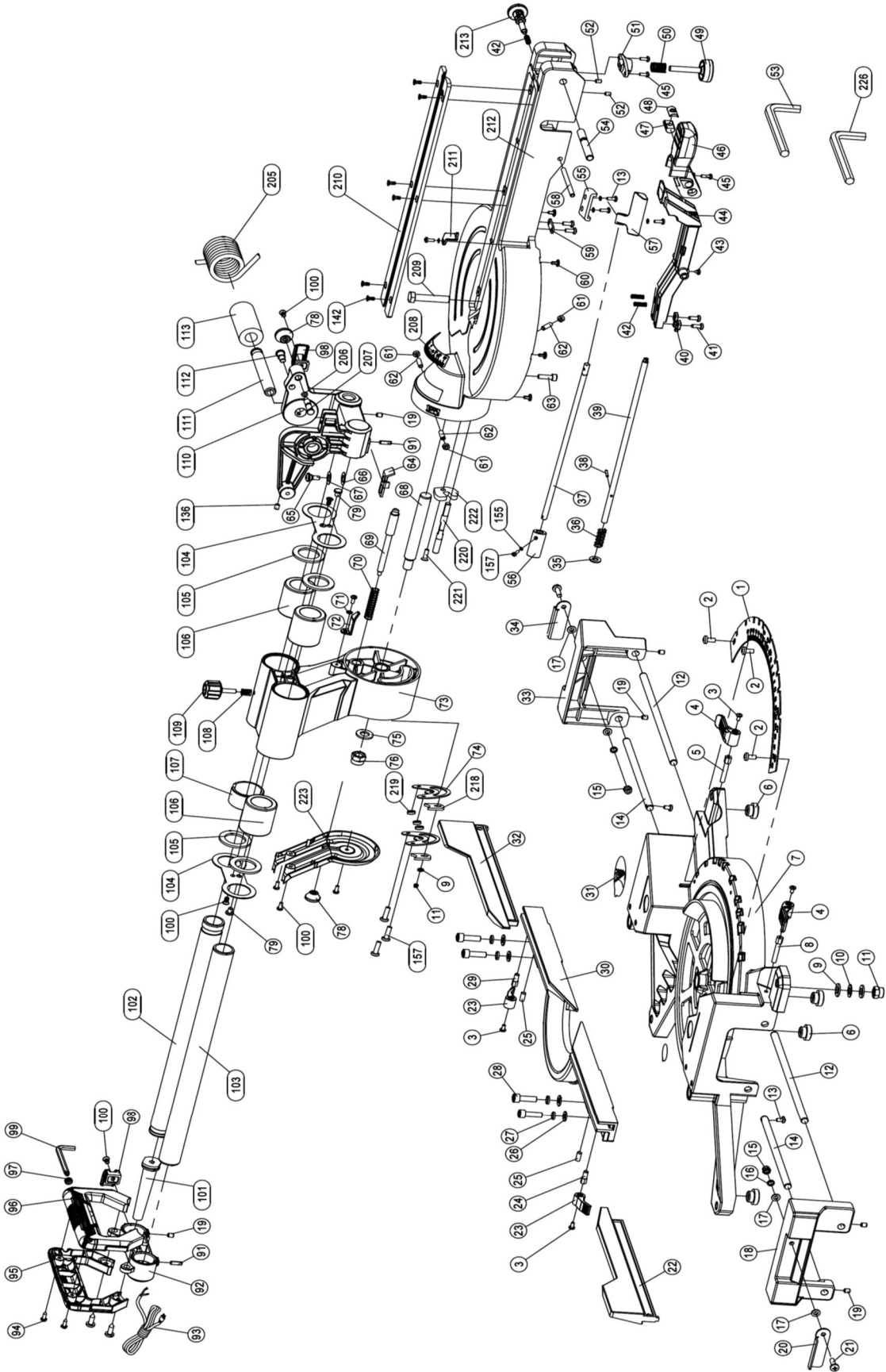
| Index No | Part No | Description | Size | Qty |
|----------|------------|--------------------------|-------------|-----|
| 001 | JMS10X-001 | Miter Angle Scale | | 1 |
| 002 | TS-2245122 | Socket Head Button Screw | M5x12 | 3 |
| 003 | TS-2284082 | Pan Head Machine Screw | M4x8 | 4 |
| 004 | JMS10X-004 | Lock Handle | | 2 |
| 005 | JMS10X-005 | Lock Bolt (RH Threads) | | 1 |
| 006 | JMS10X-006 | Foot | | 4 |
| 007 | JMS10X-007 | Base | | 1 |
| 008 | JMS10X-008 | Lock Bolt (LH Threads) | | 1 |
| 009 | TS-1550071 | Flat Washer | 10 mm | 4 |
| 010 | JAT450-31 | Wave Washer | 10 mm | 1 |
| 011 | TS-2342101 | Hex Nut, Nylon Lock | M10 | 2 |
| 012 | JMS10X-012 | Extension Rod (Long) | | 2 |
| 013 | JMS10X-013 | Extension Rod (Short) | | 2 |
| 014 | TS-1541021 | Hex Nut, Nylon Lock | M6 | 2 |
| 015 | JMS10X-015 | Left Worktable | | 1 |
| 016 | TS-1523011 | Socket Set Screw | M6x6 | 7 |
| 017 | JMS10X-017 | Left Stop Plate | | 1 |
| 018 | TS-2286202 | Pan Head Machine Screw | M6x20 | 2 |
| 019 | TS-1550041 | Flat Washer | 6 mm | 4 |
| 020 | TS-1533042 | Pan Head Machine Screw | M5x12 | 9 |
| 021 | JMS10X-021 | Fence Extension, Left | | 1 |
| 022 | JMS10X-022 | Lock Handle | | 2 |
| 023 | JMS10X-023 | Lock Bolt (RH threads) | | 1 |
| 024 | TS-1523051 | Socket Set Screw | M6x16 | 2 |
| 025 | TS-1550061 | Flat Washer | 8 mm | 6 |
| 026 | TS-2361081 | Lock Washer | 8 mm | 4 |
| 027 | TS-1504051 | Socket Head Cap Screw | M8x25 | 4 |
| 028 | JMS10X-028 | Lock Bolt (LH threads) | | 1 |
| 029 | JMS10X-029 | Fence | | 1 |
| 030 | JMS10X-030 | Fence Extension, Right | | 1 |
| 031 | JMS10X-031 | Right Worktable | | 2 |
| 032 | JMS10X-032 | Spring | | 1 |
| 033 | JMS10X-033 | Right Stop Plate | | 1 |
| 034 | JMS10X-034 | Plate | | 1 |
| 035 | JMS10X-035 | Self-Tapping Screw | ST4.8x13 mm | 4 |
| 036 | JMS10X-036 | Fixed Block | | 1 |
| 037 | F012097 | Roll Pin | 3x16 mm | 1 |
| 038 | JMS10X-038 | Self-Tapping Screw | ST4x8 | 1 |
| 039 | JMS10X-039 | Fixed Block | | 1 |
| 040 | JMS10X-040 | Locking Rod | | 1 |
| 041 | JMS10X-041 | Adjustable Foot | | 1 |
| 042 | JMS10X-042 | Spring | | 1 |
| 043 | TS-1532042 | Pan Head Machine Screw | M4x12 | 8 |
| 044 | JMS10X-044 | Support | | 1 |
| 045 | JMS10X-045 | Lock Handle | | 1 |
| 046 | JMS10X-046 | Adjust Pin | | 1 |
| 047 | JMS10X-047 | Locking Block | | 1 |
| 048 | JMS10X-048 | Locking Rod | | 1 |
| 049 | TS-1522021 | Socket Set Screw | M5x8 | 3 |
| 050 | JMS10X-050 | Stop Plate | | 1 |
| 051 | JMS10X-051 | Spring | | 1 |
| 052 | JMS10X-052 | Lock Axis | | 1 |
| 053 | JMS10X-053 | Locating Axis | | 1 |
| 054 | TS-1513041 | Socket Head Flat Screw | M5x20 | 1 |
| 055 | JMS10X-055 | Stop Plate | | 1 |
| 056 | JMS10X-056 | Sleeve | | 1 |
| 057 | JMS10X-057 | Lock Handle | | 1 |
| 058 | TS-1523061 | Socket Set Screw | M6x20 | 3 |
| 059 | JMS10X-059 | Washer | | 5 |
| 060 | TS-1503061 | Socket Head Cap Screw | M6x25 | 1 |

| Index No | Part No | Description | Size | Qty |
|----------|------------|-----------------------------|-----------|-----|
| 061 | JMS10X-061 | Stop Plate | | 1 |
| 062 | F011908 | Wave Washer | 8 mm | 1 |
| 063 | JMS10X-063 | Flat Washer | | 1 |
| 064 | JMS10X-064 | Screw | M6 | 3 |
| 065 | JMS10X-065 | Shaft | | 1 |
| 066 | JMS10X-066 | Pin | | 1 |
| 067 | JMS10X-067 | Spring | | 1 |
| 068 | TS-1550021 | Flat Washer | 4 mm | 11 |
| 069 | JMS10X-069 | Pointer | | 1 |
| 070 | JMS10X-070 | Support Arm | | 1 |
| 071 | JMS10X-071 | Lock Shaft | | 1 |
| 072 | TS-2360121 | Flat Washer | 12 mm | 1 |
| 073 | TS-2342121 | Hex Nut, Nylon Lock | M12 | 1 |
| 074 | JMS10X-074 | Hex Wrench | 2.5mm | 1 |
| 075 | JMS10X-075 | Spring | | 1 |
| 076 | JMS10X-076 | Locking Block | | 1 |
| 077 | JMS10X-077 | Button | | 1 |
| 078 | JMS10X-078 | Plate | | 1 |
| 079 | JMS10X-079 | Washer | 4mm | 2 |
| 080 | TS-2361041 | Lock Washer | 4mm | 7 |
| 081 | JMS10X-081 | Post | | 1 |
| 082 | JMS10X-082 | Plate | | 1 |
| 083 | JMS10X-083 | Knob | | 1 |
| 084 | JMS10X-084 | Clamp Support | | 1 |
| 085 | JMS10X-085 | Handle | | 1 |
| 086 | JMS10X-086 | Knob | | 1 |
| 087 | JMS10X-087 | Washer | | 2 |
| 088 | JMS10X-088 | Pin | 5x14 mm | 2 |
| 089 | JMS10X-089 | Sleeve | | 1 |
| 090 | JMS10X-090 | Self-Tapping Screw | ST4.2x13 | 8 |
| 091 | JMS10X-091 | Handle Left | | 1 |
| 092 | JMS10X-092 | Handle Right | | 1 |
| 093 | JMS10X-093 | Grommet | | 1 |
| 094 | JMS10X-094 | Cord Holder | | 1 |
| 095 | JMS10X-095 | Hex Wrench with Cross Point | 6mm | 1 |
| 096 | TS-1513011 | Socket Head Flat Screw | M5x10 | 2 |
| 097 | JMS10X-097 | Protective Sleeve | | 1 |
| 098 | JMS10X-098 | Slide Bar, Right | | 1 |
| 099 | JMS10X-099 | Slide Bar, Left | | 1 |
| 100 | TS-2361051 | Lock Washer | 5 mm | 6 |
| 101 | TS-1550031 | Flat Washer | 5 mm | 8 |
| 102 | JMS10X-102 | Bearing Plate | | 2 |
| 103 | JMS10X-103 | Felt | | 4 |
| 104 | JMS10X-104 | Bearing | LM254035 | 4 |
| 105 | JMS10X-105 | Bearing Sleeve | | 2 |
| 106 | JMS10X-106 | Knob | | 1 |
| 107 | JMS10X-107 | Spring | | 1 |
| 108 | JMS10X-108 | Support | | 1 |
| 109 | JMS10X-109 | Shaft | | 1 |
| 110 | JMS10X-110 | Screw | | 1 |
| 111 | JMS10X-111 | Sleeve | | 2 |
| 112 | JMS10X-112 | Bearing | | 1 |
| 113 | F006042 | C-Retaining Ring, Ext | 14 mm | 1 |
| 114 | JMS10X-114 | Washer | | 1 |
| 115 | JMS10X-115 | Gear | | 1 |
| 116 | K-4412 | Key, Dbl Rd Hd | 4x4x12 mm | 1 |
| 117 | JMS10X-117 | Arbor | | 1 |
| 118 | JMS10X-118 | Gear Cover | | 1 |
| 119 | BB-6003ZZ | Bearing | 6003-2RS | 2 |
| 120 | JMS10X-120 | Plate | | 1 |
| 121 | TS-1512011 | Socket Head Flat Screw | M4x10 | 8 |

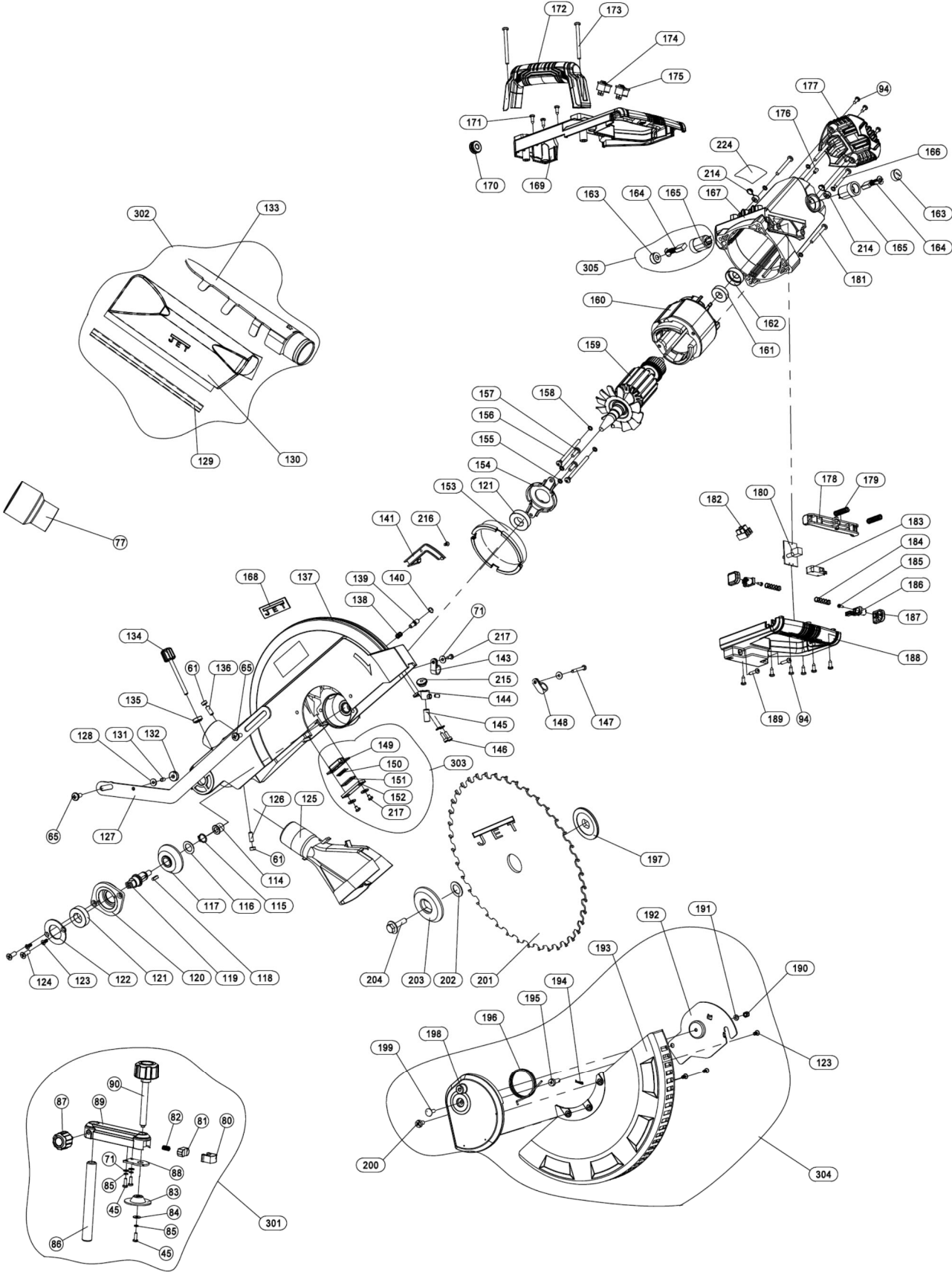
| Index No | Part No | Description | Size | Qty |
|----------|------------|------------------------------------|------------------|-----|
| 122 | TS-1514021 | Socket Head Flat Screw | M6x16 | 2 |
| 123 | JMS10X-123 | Dust Exhaust | | 1 |
| 124 | JMS10X-124 | Linkage Bar | | 1 |
| 125 | JMS10X-125 | Washer | 6 mm | 1 |
| 126 | JMS10X-126 | Clip | | 1 |
| 127 | JMS10X-127 | Dust Bag | | 1 |
| 128 | JMS10X-128 | Pin | | 1 |
| 129 | JMS10X-129 | Bearing | 606-2RS | 1 |
| 130 | JMS10X-130 | Plastic Frame | | 1 |
| 131 | JMS10X-131 | Knob | | 1 |
| 132 | JMS10X-132 | Nut | | 1 |
| 133 | JMS10X-133 | Saw Body | | 1 |
| 134 | JMS10X-134 | Support Piece | | 1 |
| 135 | JMS10X-135 | Cable Clip | | 1 |
| 136 | JMS10X-136 | Retaining Ring | Ø10.5 x 1 | 1 |
| 137 | JMS10X-137 | Pin | | 1 |
| 138 | JMS10X-138 | Spring | | 1 |
| 139 | JMS10X-139 | Laser Unit | | 2 |
| 140 | TS-1523011 | Socket Set Screw | M6x6 | 1 |
| 141 | JMS10X-141 | Laser Seat | | 1 |
| 142 | TS-1501041 | Socket Head Cap Screw | M4x12 | 2 |
| 143 | JMS10X-143 | Self-Tapping Screw | ST4.2x40 mm | 1 |
| 144 | JMS10X-144 | Cable Clip | | 1 |
| 145 | JMS10X-145 | Light Box | | 1 |
| 146 | JMS10X-146 | LED Light | | 1 |
| 147 | JMS10X-147 | Seal | | 1 |
| 148 | JMS10X-148 | Lens | | 1 |
| 149 | JMS10X-149 | Deflector | | 1 |
| 150 | JMS10X-150 | Motor Plate | | 1 |
| 151 | F001232 | Pan Head Machine Screw | M5x16 | 2 |
| 152 | JMS10X-152 | Armature | | 1 |
| 153 | F001231 | Pan Head Machine Screw | M5-0.8x70 | 2 |
| 154 | JMS10X-154 | Stator | | 1 |
| 155 | BB-6001ZZ | Ball Bearing | 6001-2RS | 1 |
| 156 | JMS10X-156 | Damping Ring | | 1 |
| 157 | JMS10X-157 | Cap | | 2 |
| 158 | JMS10X-158 | Carbon Brush | | 2 |
| 159 | JMS10X-159 | Brush Holder | | 2 |
| 160 | F001232 | Pan Head Machine Screw | M5-0.8x45 | 2 |
| 161 | JMS10X-161 | Motor Housing | | 1 |
| 162 | JMS10X-162 | Warning Label (Hands Clear Symbol) | | 2 |
| 163 | JMS10X-163 | Upper Handle | | 1 |
| 164 | JMS10X-164 | Grommet | | 1 |
| 165 | JMS10X-165 | Handle | | 1 |
| 166 | JDP17-090 | Self-Tapping Screw | ST4.2x16 mm | 8 |
| 167 | F001233 | Pan Head Machine Screw | M5-0.8x60 | 2 |
| 168 | JMS10X-168 | Laser Switch | KCD-117 | 1 |
| 169 | JMS10X-169 | LED Light Switch | KCD-117 | 1 |
| 170 | JMS10X-170 | Screw Cap | | 2 |
| 171 | JMS10X-171 | Motor Cover | | 1 |
| 172 | TS-2285352 | Pan Head Machine Screw | M5x35 | 2 |
| 173 | JMS10X-173 | Controller Assembly | | 1 |
| 174 | JMS10X-174 | Spring | | 2 |
| 175 | JMS10X-175 | Trigger | | 1 |
| 176 | JMS10X-176 | Button | | 2 |
| 177 | JMS10X-177 | Button | | 2 |
| 178 | JMS10X-178 | Self-Tapping Screw | ST2.9x9.5 | 2 |
| 179 | JMS10X-179 | Spring | | 2 |
| 180 | JMS10X-180 | Trigger Switch WD01-1 | 18A, 127V, ~ 5E4 | 1 |
| 181 | JMS10X-181 | Terminal | | 1 |
| 182 | JMS10X-182 | Self-Tapping Screw | ST4.2x19 mm | 2 |
| 183 | JMS10X-183 | Lower Handle | | 1 |

| Index No | Part No | Description | Size | Qty |
|----------|---------------|---|--------------------|-----|
| 184 | TS-1541011 | Hex Nut, Nylon Lock | M5 | 1 |
| 185 | TS-1550031 | Flat Washer | 5 mm | 1 |
| 186 | JMS10X-186 | Fixed Plate | | 1 |
| 187 | JMS10X-187 | Blade Guard | | 1 |
| 188 | JMS10X-188 | Pin | | 1 |
| 189 | JMS10X-189 | Screw | | 1 |
| 190 | JMS10X-190 | Spring | | 1 |
| 191 | JMS10X-191 | Screw | | 1 |
| 192 | JMS10X-192 | Support Plate | | 1 |
| 193 | PM2700-236 | Carriage Bolt | M5x16 | 1 |
| 194 | JMS10X-194 | Inner Flange | | 1 |
| 195 | JMS10X-195 | Blade | 10"x40Tx5/8" Arbor | 1 |
| 196 | JMS10X-196 | Outer Flange | | 1 |
| 197 | JMS10X-197 | Adaptor | | 1 |
| 198 | JMS10X-198 | Screw (LH Threads) | M8x20 Left | 1 |
| 199 | JMS10X-199 | Spring | | 1 |
| 200 | JMS10X-200 | Table Insert | | 2 |
| 201 | JMS10X-201 | O-Ring | | 1 |
| 202 | JMS10X-202 | Pin | | 2 |
| 203 | JMS10X-203 | Bevel Angle Scale | | 1 |
| 204 | CL1640ZX-0153 | Hex Cap Screw | M10x55 | 1 |
| 205 | JMS10X-205 | Pointer | | 1 |
| 206 | JMS10X-206 | Washer | | 4 |
| 207 | JMS10X-207 | Table | | 1 |
| 208 | JMS10X-208 | Pin | | 1 |
| 209 | TS-1512011 | Socket Head Flat Screw | M4x10 | 3 |
| 210 | LM000391 | ID Label, JMS-10X | | 1 |
| 211 | JDR34-026 | Self-Tapping Screw | ST4.2x9.5 mm | 1 |
| 212 | JMS10X-212 | Power Cord | 14AWG | 1 |
| 213 | 2210-331 | Self-Tapping Screw | M4x12 | 3 |
| 214 | 990805 | Self-Tapping Screw | M4x10 | 1 |
| 215 | JMS10X-215 | Light Cover | | 1 |
| 216 | TS-1523051 | Socket Set Screw | M6x16 | 3 |
| 217 | TS-1522021 | Socket Set Screw | M5x8 | 1 |
| 218 | JMS10X-218 | Friction Pad | | 2 |
| 219 | JMS10X-219 | Washer | | 2 |
| 220 | JMS10X-220 | Sleeve | | 3 |
| 221 | JET-92 | JET Logo | 92x38 mm | 1 |
| 222 | JMS10X-222 | Rear Cover | | 1 |
| 223 | LM000393 | Warning Label, Laser | | 1 |
| 224 | TS-152704 | Hex Wrench | 3 mm | 1 |
| 301 | JMS10X-301 | Clamp Hold Down Assembly (#75~85,43,68) | | 1 |
| 302 | JMS10X-302 | Dust bag Assembly (#126,127,130) | | 1 |
| 303 | JMS10X-303 | LED Light Assembly (#145~148,213,68) | | 1 |
| 304 | JMS10X-304 | Blade Guard Assembly (#184~193, 209) | | 1 |
| 305 | JMS10X-305 | Carbon Brush Assembly (#157~159) | | 1 |
| | LM000392 | Warning Label, (not shown) | | 1 |

13.2.1 JMS-12X (#707212) – Miter Saw Assembly – Exploded View I



13.2.2 JMS-12X (#707212) – Miter Saw Assembly – Exploded View II



13.2.3 JMS-12X (#707212) – Miter Saw Assembly – Parts List

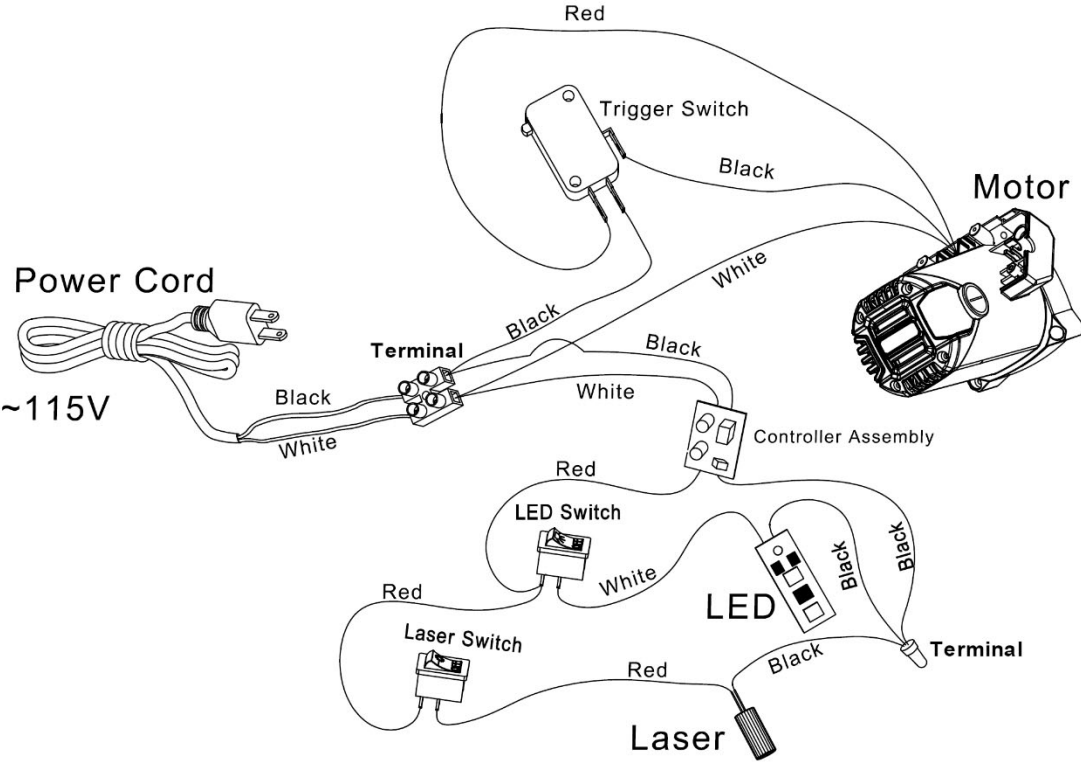
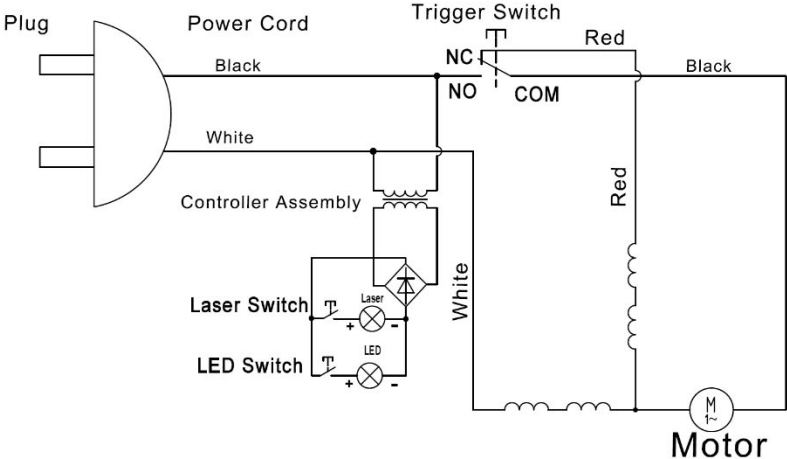
| Index No | Part No | Description | Size | Qty |
|----------|------------|------------------------------------|-----------|-----|
| 001 | JMS12X-001 | Miter Angle Scale | | 1 |
| 002 | TS-2246122 | Socket Head Button Screw | M6x12 | 3 |
| 003 | TS-2284082 | Pan Head Machine Screw | M4x8 | 4 |
| 004 | JMS10X-004 | Lock Handle | | 2 |
| 005 | JMS12X-005 | Lock Bolt (RH Threads) | | 1 |
| 006 | JMS10X-006 | Foot | | 4 |
| 007 | JMS12X-007 | Base | | 1 |
| 008 | JMS12X-008 | Lock Bolt (LH Threads) | | 1 |
| 009 | TS-1550071 | Flat Washer | 10 mm | 3 |
| 010 | JMS10X-010 | Wave Washer | 10 mm | 1 |
| 011 | TS-2342101 | Hex Nut, Nylon Lock | M10 | 2 |
| 012 | JMS10X-012 | Extension Rod (Long) | | 2 |
| 013 | TS-1533042 | Pan Head Machine Screw | M5x12 | 7 |
| 014 | JMS10X-013 | Extension Rod (Short) | | 2 |
| 015 | TS-1541021 | Hex Nut, Nylon Lock | M6 | 2 |
| 016 | TS-2361061 | Lock Washer | 6 mm | 2 |
| 017 | TS-1550041 | Flat Washer | 6 mm | 4 |
| 018 | JMS12X-018 | Left Worktable | | 1 |
| 019 | TS-1523011 | Socket Set Screw | M6x6 | 7 |
| 020 | JMS10X-017 | Left Stop Plate | | 1 |
| 021 | TS-2286202 | Pan Head Machine Screw | M6x20 | 2 |
| 022 | JMS12X-022 | Fence Extension, Left | | 1 |
| 023 | JMS10X-022 | Lock Handle | | 2 |
| 024 | JMS10X-023 | Lock Bolt (RH Threads) | | 1 |
| 025 | TS-1523051 | Socket Set Screw | M6x16 | 2 |
| 026 | TS-1550061 | Flat Washer | 8 mm | 4 |
| 027 | TS-2361081 | Lock Washer | 8 mm | 4 |
| 028 | TS-1504051 | Socket Head Cap Screw | M8x25 | 4 |
| 029 | JMS10X-028 | Lock Bolt (LH Threads) | | 1 |
| 030 | JMS12X-030 | Fence | | 1 |
| 031 | JMS10X-162 | Warning Label (Hands Clear Symbol) | | 2 |
| 032 | JMS12X-032 | Fence Extension, Right | | 1 |
| 033 | JMS12X-033 | Right Worktable | | 1 |
| 034 | JMS10X-033 | Right Stop Plate | | 1 |
| 035 | TS-1550061 | Flat Washer | 8 mm | 1 |
| 036 | JMS12X-036 | Spring | | 1 |
| 037 | JMS12X-037 | Locking Rod | | 1 |
| 038 | JMS10X-037 | Pin | 3x16 mm | 1 |
| 039 | JMS12X-039 | Locking Rod | | 1 |
| 040 | JMS10X-036 | Located Block | | 1 |
| 041 | JMS10X-035 | Self-Tapping Screw | ST4.8x13 | 4 |
| 042 | JMS10X-051 | Spring | | 3 |
| 043 | JMS12X-043 | Self-Tapping Screw | ST4.2x6.5 | 1 |
| 044 | JMS12X-044 | Fixed Block | | 1 |
| 045 | TS-1532042 | Pan Head Machine Screw | M4x12 | 8 |
| 046 | JMS10X-045 | Lock Handle | | 1 |
| 047 | JMS10X-046 | Adjust Pin | | 1 |
| 048 | JMS10X-047 | Locking Block | | 1 |
| 049 | JMS10X-041 | Adjustable Foot | | 1 |
| 050 | JMS10X-042 | Spring | | 1 |
| 051 | JMS10X-044 | Support | | 1 |
| 052 | TS-1522021 | Socket Set Screw | M5x8 | 3 |
| 053 | JMS10X-074 | Hex Wrench | 2.5mm | 1 |
| 054 | JMS12X-054 | Lock Axis | | 1 |
| 055 | JMS10X-050 | Stop Plate | | 1 |
| 056 | JMS10X-056 | Sleeve | | 1 |
| 057 | JMS10X-057 | Lock Handle | | 1 |
| 058 | JMS12X-058 | Locating Axis | | 1 |
| 059 | JMS10X-034 | Stop Plate | | 1 |

| Index No | Part No | Description | Size | Qty |
|----------|------------|-----------------------------|-------------|-----|
| 060 | JMS10X-206 | Washer | | 6 |
| 061 | JMS10X-059 | Locking Ring | | 5 |
| 062 | TS-1523061 | Socket Set Screw | M6x20 | 3 |
| 063 | TS-1503051 | Socket Head Cap Screw | M6x20 | 1 |
| 064 | JMS12X-064 | Stop Plate | | 1 |
| 065 | JMS10X-064 | Screw | | 3 |
| 066 | JMS10X-063 | Washer | 8 mm | 1 |
| 067 | F011908 | Wave Washer | 8 mm | 1 |
| 068 | JMS12X-068 | Shaft | | 1 |
| 069 | JMS12X-069 | Pin | | 1 |
| 070 | JMS10X-067 | Spring | | 1 |
| 071 | TS-1550021 | Flat Washer | 4 mm | 8 |
| 072 | JMS10X-069 | Pointer | | 1 |
| 073 | JMS12X-073 | Support Arm | | 1 |
| 074 | JMS12X-074 | Friction Pad | | 2 |
| 075 | TS-2360121 | Flat Washer | 12 mm | 1 |
| 076 | TS-2342121 | Hex Nut, Nylon Lock | M12 | 1 |
| 077 | JMS10X-197 | Adaptor | | 1 |
| 078 | JMS10X-086 | Knob | | 2 |
| 079 | JMS10X-087 | Washer | | 2 |
| 080 | JMS10X-077 | Button | | 1 |
| 081 | JMS10X-076 | Locking Block | | 1 |
| 082 | JMS10X-075 | Spring | | 1 |
| 083 | JMS10X-078 | Plate | | 1 |
| 084 | JMS12X-084 | Washer | 4mm | 2 |
| 085 | TS-2361041 | Lock Washer | 4mm | 3 |
| 086 | JMS12X-086 | Post | | 1 |
| 087 | JMS10X-083 | Knob | | 1 |
| 088 | JMS10X-082 | Plate | | 1 |
| 089 | JMS10X-084 | Clamp Support | | 1 |
| 090 | JMS10X-085 | Handle | | 1 |
| 091 | F012104 | Roll Pin | 5x14 mm | 2 |
| 092 | JMS12X-092 | Sleeve | | 1 |
| 093 | JMS10X-212 | Power Cord | 14AWG | 1 |
| 094 | F011287 | Self-Tapping Screw | ST4.2x13 mm | 6 |
| 095 | JMS12X-095 | Handle Left | | 1 |
| 096 | JMS12X-096 | Handle Right | | 1 |
| 097 | JMS10X-093 | Grommet | | 1 |
| 098 | JMS10X-094 | Cord Holder | | 1 |
| 099 | JMS10X-095 | Hex Wrench with Cross Point | 6mm | 1 |
| 100 | TS-1513011 | Socket Head Flat Screw | M5x10 | 4 |
| 101 | JMS12X-101 | Protective Sleeve | | 1 |
| 102 | JMS12X-102 | Slide Bar, Right | | 1 |
| 103 | JMS12X-103 | Slide Bar, Left | | 1 |
| 104 | JMS12X-104 | Bearing Plate | | 2 |
| 105 | JMS12X-105 | Felt | | 4 |
| 106 | JMS12X-106 | Bearing | LM304550 | 4 |
| 107 | JMS12X-107 | Bearing Sleeve | | 2 |
| 108 | JMS10X-107 | Spring | | 1 |
| 109 | JMS10X-106 | Knob | | 1 |
| 110 | JMS12X-110 | Support | | 1 |
| 111 | JMS12X-111 | Shaft | | 1 |
| 112 | JMS10X-110 | Screw | | 1 |
| 113 | JMS12X-113 | Sleeve | | 1 |
| 114 | JMS10X-112 | Bearing | | 1 |
| 115 | F006042 | C-Retaining Ring, Ext | 14 mm | 1 |
| 116 | JMS10X-114 | Washer | | 1 |
| 117 | JMS10X-115 | Gear | | 1 |
| 118 | K-4412 | Key, Dbl Rd Hd | 4x4x12 mm | 1 |
| 119 | JMS10X-117 | Arbor | | 1 |
| 120 | JMS10X-118 | Gear Cover | | 1 |
| 121 | BB-6003ZZ | Bearing | 6003-2RS | 2 |

| Index No | Part No | Description | Size | Qty |
|----------|------------|------------------------|------------------|-----|
| 122 | JMS10X-120 | Plate | | 1 |
| 123 | TS-1512011 | Socket Head Flat Screw | M4x10 | 5 |
| 124 | TS-1514021 | Socket Head Flat Screw | M6x16 | 2 |
| 125 | JMS12X-125 | Dust Exhaust | | 1 |
| 126 | TS-1523071 | Socket Set Screw | M6x25 | 1 |
| 127 | JMS12X-127 | Linkage Bar | | 1 |
| 128 | JMS10X-125 | Washer | 6 mm | 1 |
| 129 | JMS10X-126 | Clip | | 1 |
| 130 | JMS10X-127 | Dust Bag | | 1 |
| 131 | JMS10X-128 | Pin | | 1 |
| 132 | JMS12X-132 | Bearing | 606-2RS | 1 |
| 133 | JMS10X-130 | Plastic Parts | | 1 |
| 134 | JMS12X-134 | Knob | | 1 |
| 135 | JMS10X-132 | Nut | | 1 |
| 136 | TS-1523051 | Socket Set Screw | M6x16 | 2 |
| 137 | JMS12X-137 | Saw Body | | 1 |
| 138 | JMS10X-138 | Pin | | 1 |
| 139 | JMS10X-137 | Spring | | 1 |
| 140 | JMS10X-136 | Retaining Ring | Ø10.5x1 mm | 1 |
| 141 | JMS12X-141 | Support Piece | | 1 |
| 142 | TS-1512011 | Socket Head Flat Screw | M4x10 | 6 |
| 143 | JMS10X-135 | Cable Clip | | 1 |
| 144 | JMS10X-141 | Laser Seat | | 1 |
| 145 | JMS10X-139 | Laser Unit | | 2 |
| 146 | TS-1501041 | Socket Head Cap Screw | M4x12 | 2 |
| 147 | JMS12X-147 | Self-Tapping Screw | ST4.2x40 | 1 |
| 148 | JMS10X-144 | Cable Clip | | 1 |
| 149 | JMS10X-145 | Light Box | | 1 |
| 150 | JMS10X-146 | LED Light | | 1 |
| 151 | JMS10X-147 | Seal | | 1 |
| 152 | JMS10X-148 | Lens | | 1 |
| 153 | JMS10X-149 | Deflector | | 1 |
| 154 | JMS10X-150 | Motor Plate | | 1 |
| 155 | TS-2361051 | Lock Washer | 5 mm | 5 |
| 156 | F001231 | Pan Head Machine Screw | M5-0.8x70 | 2 |
| 157 | TS-1533052 | Pan Head Machine Screw | M5x16 | 8 |
| 158 | TS-1550031 | Flat Washer | 5 mm | 6 |
| 159 | JMS12X-159 | Armature | | 1 |
| 160 | JMS12X-160 | Stator | | 1 |
| 161 | BB-6001ZZ | Ball Bearing | 6001-2RS | 1 |
| 162 | JMS10X-156 | Damping Ring | | 1 |
| 163 | JMS10X-157 | Cap | | 2 |
| 164 | JMS10X-158 | Carbon Brush | | 2 |
| 165 | JMS10X-159 | Brush Holder | | 2 |
| 166 | F001232 | Pan Head Machine Screw | M5-0.8x45 | 2 |
| 167 | JMS10X-161 | Motor Housing | | 1 |
| 168 | JET-92 | JET Logo | 92x38mm | 1 |
| 169 | JMS12X-169 | Upper Handle | | 1 |
| 170 | JMS10X-164 | Grommet | | 1 |
| 171 | JDP17-090 | Self-Tapping Screw | ST4.2x16 mm | 8 |
| 172 | JMS10X-165 | Handle | | 1 |
| 173 | F001233 | Pan Head Machine Screw | M5-0.8x60 | 2 |
| 174 | JMS10X-168 | Laser Switch | KCD-117 | 1 |
| 175 | JMS10X-169 | LED Light Switch | KCD-117 | 1 |
| 176 | TS-1522021 | Socket Set Screw | M5x8 | 1 |
| 177 | JMS10X-171 | Motor Cover | | 1 |
| 178 | JMS10X-175 | Trigger | | 1 |
| 179 | JMS10X-174 | Spring | | 2 |
| 180 | JMS10X-173 | Controller Assembly | | 1 |
| 181 | TS-2285352 | Pan Head Machine Screw | M5x35 | 2 |
| 182 | JMS10X-181 | Terminal | | 1 |
| 183 | JMS10X-180 | Trigger Switch WD01-1 | 18A, 127V, ~ 5E4 | 1 |

| Index No | Part No | Description | Size | Qty |
|----------|------------|---|------------------|-----|
| 184 | JMS10X-179 | Spring | | 2 |
| 185 | JMS12X-185 | Self-Tapping Screw | ST2.9x9.5 mm | 2 |
| 186 | JMS10X-177 | Button | | 2 |
| 187 | JMS10X-176 | Button | | 2 |
| 188 | JMS12X-188 | Lower Handle | | 1 |
| 189 | JMS10X-182 | Self-Tapping Screw | ST4.2x19 mm | 2 |
| 190 | TS-1541011 | Hex Nut, Nylon Lock | M5 | 1 |
| 191 | TS-1550031 | Flat Washer | 5 mm | 1 |
| 192 | JMS10X-186 | Fixed Plate | | 1 |
| 193 | JMS12X-193 | Blade Guard | | 1 |
| 194 | JMS10X-188 | Pin | | 1 |
| 195 | JMS10X-189 | Screw | | 1 |
| 196 | JMS10X-190 | Spring | | 1 |
| 197 | JMS10X-194 | Inner Flange | | 1 |
| 198 | JMS12X-198 | Support Plate | | 1 |
| 199 | PM2700-236 | Carriage Bolt | M5x16 | 1 |
| 200 | JMS10X-200 | Screw | | 1 |
| 201 | JMS12X-201 | Saw Blade | 12"x48Tx1" Arbor | 1 |
| 202 | JMS12X-202 | Reducer | 5/8" x1"x 0.11" | 1 |
| 203 | JMS10X-196 | Outer Flange | | 1 |
| 204 | JMS10X-198 | Screw (LH Threads) | M8x20 Left | 1 |
| 205 | JMS12X-205 | Spring | | 1 |
| 206 | JMS10X-201 | O Ring | Ø8xØ1.9 mm | 1 |
| 207 | JMS10X-202 | Pin | | 2 |
| 208 | JMS12X-208 | Bevel Angle Scale | | 1 |
| 209 | JMS12X-209 | Hex Cap Screw | M10x50 | 1 |
| 210 | JMS12X-200 | Table Insert | | 2 |
| 211 | JMS10X-205 | Pointer | | 1 |
| 212 | JMS12X-212 | Table | | 1 |
| 213 | JMS10X-208 | Pin | | 1 |
| 214 | JMS10X-170 | Screw Cap | | 2 |
| 215 | JMS10X-215 | Light Cover | | 1 |
| 216 | 990805 | Self-Tapping Screw | M4x10 | 1 |
| 217 | 2210-331 | Self-Tapping Screw | M4x12 | 3 |
| 218 | JMS12X-218 | Washer | | 2 |
| 219 | JMS10X-220 | Sleeve | | 3 |
| 220 | JMS12X-220 | Shaft | | 1 |
| 221 | TS-1522061 | Socket Set Screw | M5x20 | 1 |
| 222 | JMS10X-055 | Stop Plate | | 1 |
| 223 | JMS12X-223 | Rear Cover | | 1 |
| 224 | LM000394 | ID Label, JMS-12X | | 1 |
| 225 | LM000393 | Warning Label, Laser | | 1 |
| 226 | TS-152704 | Hex Wrench | 3 mm | 1 |
| 301 | JMS12X-301 | Clamp Hold Down Assembly (#81~90,45,71) | | 1 |
| 302 | JMS12X-302 | Dust bag Assembly (#129,130,133) | | 1 |
| 303 | JMS12X-303 | LED Light Assembly (#149~152, 217) | | 1 |
| 304 | JMS12X-304 | Blade Guard Assembly (#190~200,123) | | 1 |
| 305 | JMS12X-305 | Carbon Brush Assembly (#163~165) | | 1 |
| | LM000392 | Warning Label, (not shown) | | 1 |

14.0 Electrical Connections – JMS-10X,12X



15.0 Warranty and service

JET® warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

Warranty Period

The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website.

- JET products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

Who is Covered

This warranty covers only the initial purchaser of the product from the date of delivery.

What is Covered

This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance. JET woodworking machinery is designed to be used with Wood. Use of these machines in the processing of metal, plastics, or other materials outside recommended guidelines may void the warranty. The exceptions are acrylics and other natural items that are made specifically for wood turning.

Warranty Limitations

Woodworking products with a Five Year Warranty that are used for commercial or industrial purposes default to a Two Year Warranty. Please contact Technical Service at 1-800-274-6846 for further clarification.

How to Get Technical Support

Please contact Technical Service by calling 1-800-274-6846. **Please note that you will be asked to provide proof of initial purchase when calling.** If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the JET website.

More Information

JET is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website.

How State Law Applies

This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty

JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

JET SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

JET sells through distributors only. The specifications listed in JET printed materials and on official JET website are given as general information and are not binding. JET reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever. JET® branded products are not sold in Canada by JPW Industries, Inc.

Product Listing with Warranty Period

| |
|--|
| 90 Days – Parts; Consumable items |
| 1 Year – Motors; Machine Accessories; Air Tool Accessories |
| 1 Year Wear and Tear – Air Tools |
| 2 Year – Metalworking Machinery; Electric Hoists, Electric Hoist Accessories; Woodworking Machinery used for industrial or commercial purposes |
| 3 Year – Woodworking Bench Top Machinery |
| 5 Year – Woodworking Machinery |
| Limited Lifetime – JET Parallel clamps; VOLT Series Electric Hoists; Manual Hoists; Manual Hoist Accessories; Shop Tools; Warehouse & Dock products; Hand Tools: Air Tools |

NOTE: JET is a division of JPW Industries, Inc. References in this document to JET also apply to JPW Industries, Inc., or any of its successors in interest to the JET brand.