Electric Log Splitter

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Model: FM5, FM8 & FM10 (Versions D, T & TW)

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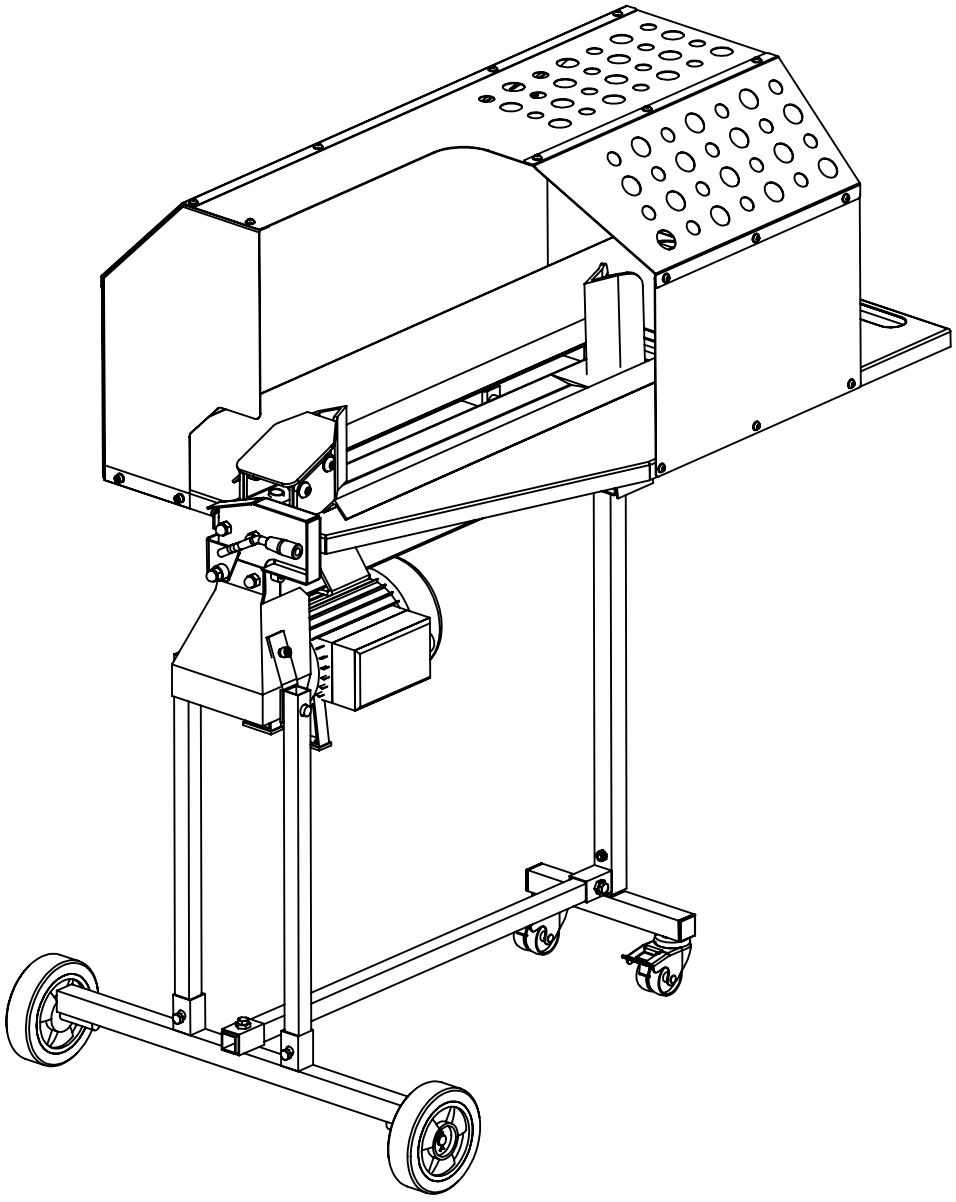
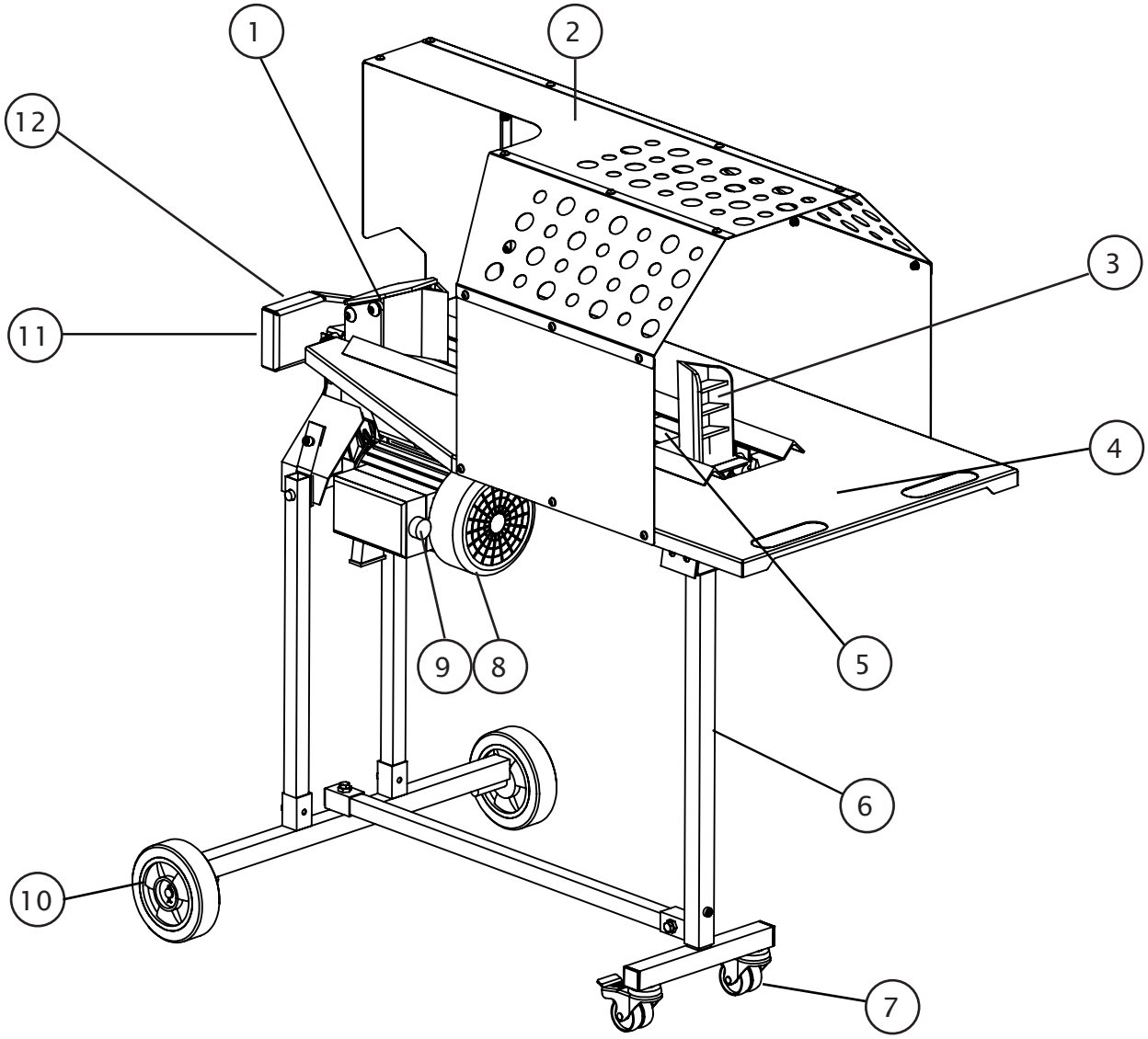


Model Shown FM10TW

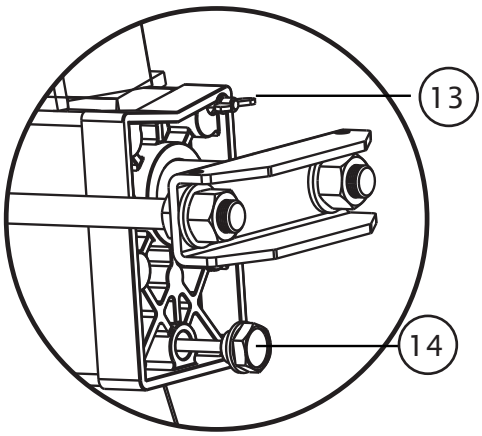
IMPORTANT: Read this manual fully before assembly and use, and observe all safety rules and operating instructions

Contents

Model	FM5	FM8	FM10
Minimum log diameter	50 mm	50 mm	50 mm
Maximum log diameter	250 mm	250 mm	500 mm
Maximum Log Length	300 mm	370 mm	450 mm
Motor	230V 50Hz 2200W IP54	230V 50Hz 2200W IP54	230V 50Hz 2200W IP54
Splitting Force	5 ton	5 ton	5 ton 7 ton
Hydraulic Pressure	400 bar	400 bar	400 bar 500 bar
Hydraulic Oil Capacity	1.9 Litre	2.4 Litre	3.5 Litre
Length	710 mm	780 mm	940 mm
Width	270 mm	270 mm	270 mm
Height	510 mm	510 mm	510 mm
Weight	32 kg	37 kg	47 kg



1	Pusher (FM5, FM8) / Duocut Blade (FM10)
2	Cage
3	Wedge
4	Log Tray
5	Log Bed
6	Stand (T & TW models only)
7	Locking Castors (TW models only)
8	Motor
9	Push Button
10	Wheels
11	Hydraulic Control Lever
12	Control Lever Guard
13	Bleed Screw
14	Oil Drain Bolt w/ Dipstick



Symbol on the machine

UNDERSTAND YOUR LOG SPLITTER: Read and understand the owner's manual and labels affixed to the log splitter. Learn its application and limitations as well as the specific potential hazards peculiar to it.

DRUGS, ALCOHOL AND MEDICATION: Do not operate the log splitter while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

AVOID DANGEROUS CONDITIONS: Use the log splitter on the ground, on the stand supplied or one of the stands available as accessories. Ensure the stand, if used, is securely assembled.
Keep your work area clean and well lit. Cluttered areas invite injuries. Do not use the log splitter in wet or damp areas or expose it to rain. Do not use it in areas where fumes from paint, solvents or flammable liquids pose a potential hazard.

INSPECT YOUR LOG SPLITTER: Check your log splitter before turning it on. Keep guards in place and in working order. Form a habit of checking to see that keys and adjusting wrenches are removed from tool area before turning it on. Replace damaged, missing or failed parts before using it.

DRESS PROPERLY: Do not wear loose clothing, gloves, neckties or jewellery (rings, wrist watches). They can be caught in moving parts.
Protective electrically non conductive gloves and non-skid footwear are recommended when working. Wear protective hair covering to contain long hair, preventing it from getting caught in machinery.

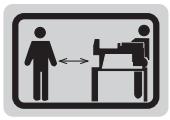
PROTECT YOUR EYES AND FACE: Any log splitter may throw foreign objects into the eyes. This can cause permanent eye damage. Always wear safety goggles. Everyday eyeglasses have only impact resistant lenses. They are not safety glasses.
Stand behind and to the right of the machine when operating it. Do not bend over the machine to operate it, this is an awkward operating position that has the operator bring their face close to the machine, and thus risk being struck by wood chips or debris.

EXTENSION CORDS: Improper use of extension cords may cause inefficient operation of the log splitter which can result in overheating. Be sure the extension cord is no longer than 10m and its section is no less than 2.5mm^2 to allow sufficient current flow to the motor.
Avoid use of free and inadequately insulated connections. Connections must be made with protected material suitable for outdoor use.

AVOID ELECTRICAL SHOCK: Check that the electric circuit is adequately protected and that it corresponds with the power, voltage and frequency of the motor. Check that there is a ground connection, and a regulation differential switch upstream.
Ground the log splitter. Prevent body contact with grounded surfaces: pipes, radiators, ranges, and refrigerator enclosures.
Never open the push button box on the motor. Should this be necessary, contact a qualified electrician.
Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging the log splitter.

AVOID BURNS: Avoid contact with hot oil, exhaust fumes and hot surfaces. Do not touch the engine or exhaust, these parts get extremely hot from operation and remain hot for a time after the unit is turned off. Allow the engine to cool before doing maintenance or adjustment.

Symbol on the machine



KEEP VISITORS AND CHILDREN AWAY: The log splitter must be always operated by one person only. Other people should keep a safe distance from the work area, especially when the log splitter is under operations. Never use another person to help you with freeing jammed logs.

INSPECT YOUR LOG: Make sure there are no nails or foreign objects in logs to be split. The ends of the logs must be cut square. Branches must be cut off flush with the trunk.

DON'T OVERREACH: Floor must not be slippery.
Keep proper footing and balance at all times. Never stand on log splitter. Serious injury could occur if the tool is tipped or if the cutting tools is unintentionally contacted. Do not store anything above or near the log splitter where anyone might stand on the tool to reach them.

AVOID INJURY FROM UNEXPECTED ACCIDENT: Always pay full attention to the movement of the log pusher.
Do not attempt to load the log on until the log pusher has stopped. Keep hands out of the way of all moving parts.

PROTECT YOUR HANDS: Keep you hands away from splits and cracks which open in the log; They may close suddenly and crush or amputate your hands.
Do not remove jammed logs with your hands.

DON'T FORCE THE TOOL: It will do a better and safer job at its design rate. Never try to split logs larger than those indicated in the specifications table. This could be dangerous and may damage the machine.
Don't use log splitter for a purpose for which it was not intended.

NEVER LEAVE THE TOOL RUNNING UNATTENDED: Don't leave tool until it has come to a complete stop.

DISCONNECT POWER: Unplug the electric motor or remove the plug cap from the spark plug before making adjustments, changing parts, cleaning, or maintaining the log splitter. Consult technical manual before servicing.

PROTECT THE ENVIRONMENT: Take used oil to an authorized collection point or follow the stipulations in the country where the log splitter is used. Do not discharge into drains, soil or water.

MAINTAIN YOUR LOG SPLITTER WITH CARE: Keep the log splitter clean for best and safest performance.

MAKE THE WORKSHOP CHILDPROOF: Lock the shop. Disconnect master switches. Store the log splitter away from children and others not qualified to use it.

The warnings, cautions and instructions referred to in this manual cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution must be applied by the operator when using the log splitter.

WORK BENCH and SAFETY GUARD

In the EU or UK, if you supply the log splitter to a third party to use, you must fit it with the work bench and safety guard.

The work bench and safety guard are designed to be used only with log splitters that are two handed operation. They must not be fitted to log splitters that can be operated one handed.

NEVER attempt to place a hand or hands in the guard when the log splitter is operation.

NEVER attempt to place logs in the guard or remove them from within the guard when the log splitter is in operation.

NEVER allow a second person to assist in placing logs in or removing logs from within the guard whether the log splitter is in operation or not.

Before using the log splitter, check all bolts securing the panels of the guard together, the bolts that secure the cage to the work bench and the bolts that secure the work bench to the log splitter to ensure they are secure.

DO NOT place fingers or other objects through the holes in the top and angled panels, these holes are only to allow you to view the log.

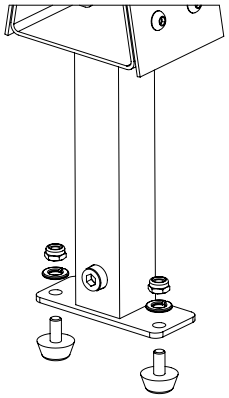
DO NOT attempt to split a log greater than the specified maximum log diameter as this may result in damage to the guard.

DO NOT attempt to load logs onto the log splitter through the front (fixed blade) opening.

ALWAYS load logs through the right hand rear opening.

DO NOT leave split logs lying inside the guard when splitting a subsequent log as these may be forced against the cage and damage it.

BEFORE FIRST USE

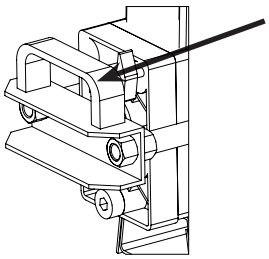


FIT FRONT FEET (FM10D & FM10D-7 Only)

If you have purchased a T or TW stand to go with your log splitter then you can ignore this step. Attach the two plastic/rubber feet (supplied in the plastic bag with the handle) to the plate on the bottom of the front foot, using the nuts and spring washers supplied.

This step does not apply to the FM5 & FM8 as they use a different front leg.

FIT THE LIFTING HANDLE (For use outside of the European Union)



When used outside of the European Union, a lifting handle is supplied so the machine can be lifted up and moved on the rear wheels. This is fitted to the top face of the cross piece on the end of the ram using the two bolts supplied which screw into the threaded holes in the top face.

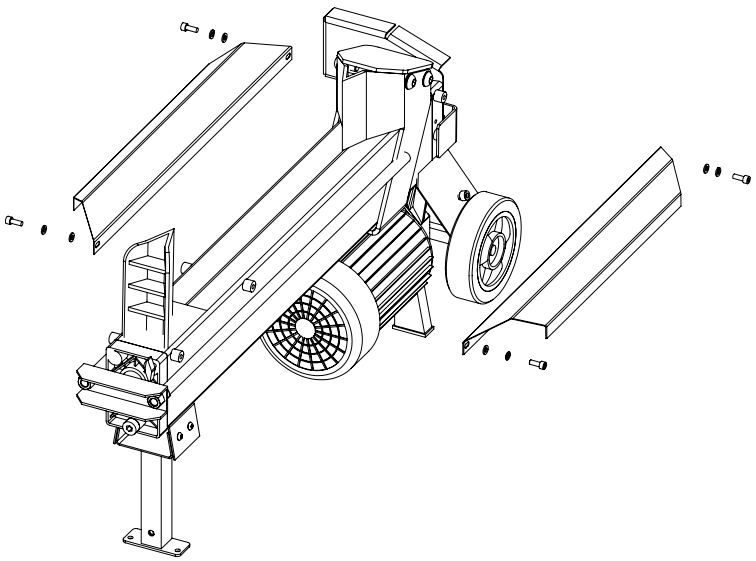
If using the log splitter in the European Union then this handle should not be fitted as it obstructs the work bench and safety guard, see the next section.

ATTACH THE WORK BENCH AND GUARD (UK & European Union Only)
The work bench and guard are only necessary to comply with CE Approval and health and safety at work legislation in the European Union. Outside of the European Union the individual user can choose to not use either or just use the work bench. If you have purchased a stand for your log splitter, you may find it easier to fit the stand before fitting the work bench and guard.

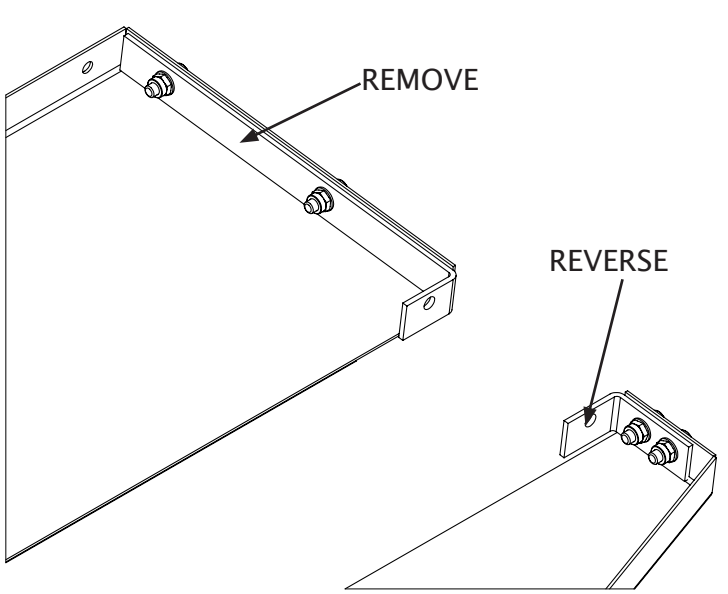
The work bench & guard package contains
1 x Work Bench (with rear brackets attached)
6 x Guard panels
25 x M6x12 Button Head Bolts (1 spare)
5 x M6x16 Cap Head Bolts (7 for FM10) (1 spare)
25 x M6 nyloc Nut (1 spare)
5 x M6 Spring Washers (7 for FM10) (1 spare)
53 x M6 Flat Washers (55 for FM10) (1 spare)

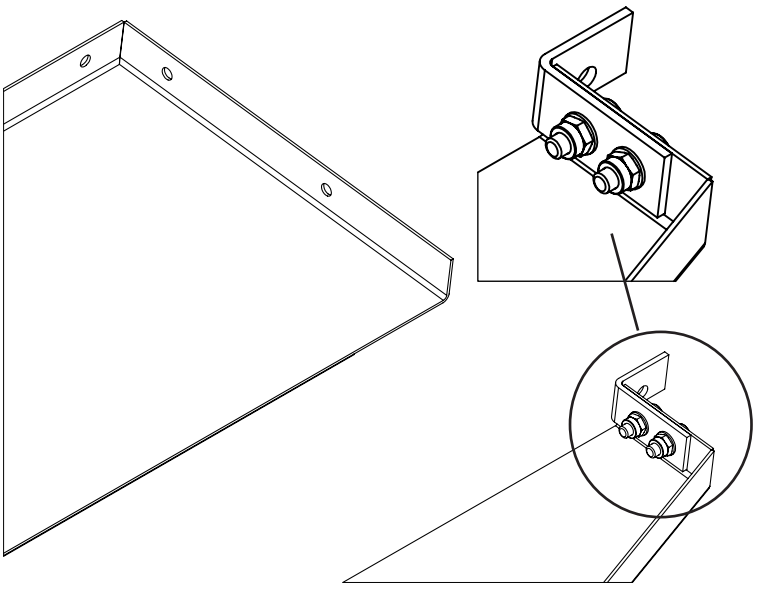
Attaching The Tray
Using an M6 Allen key (not supplied), undo the bolts and remove the existing log support rails.

If the lifting handle is fitted to the ram crosspiece, unbolt and remove it.

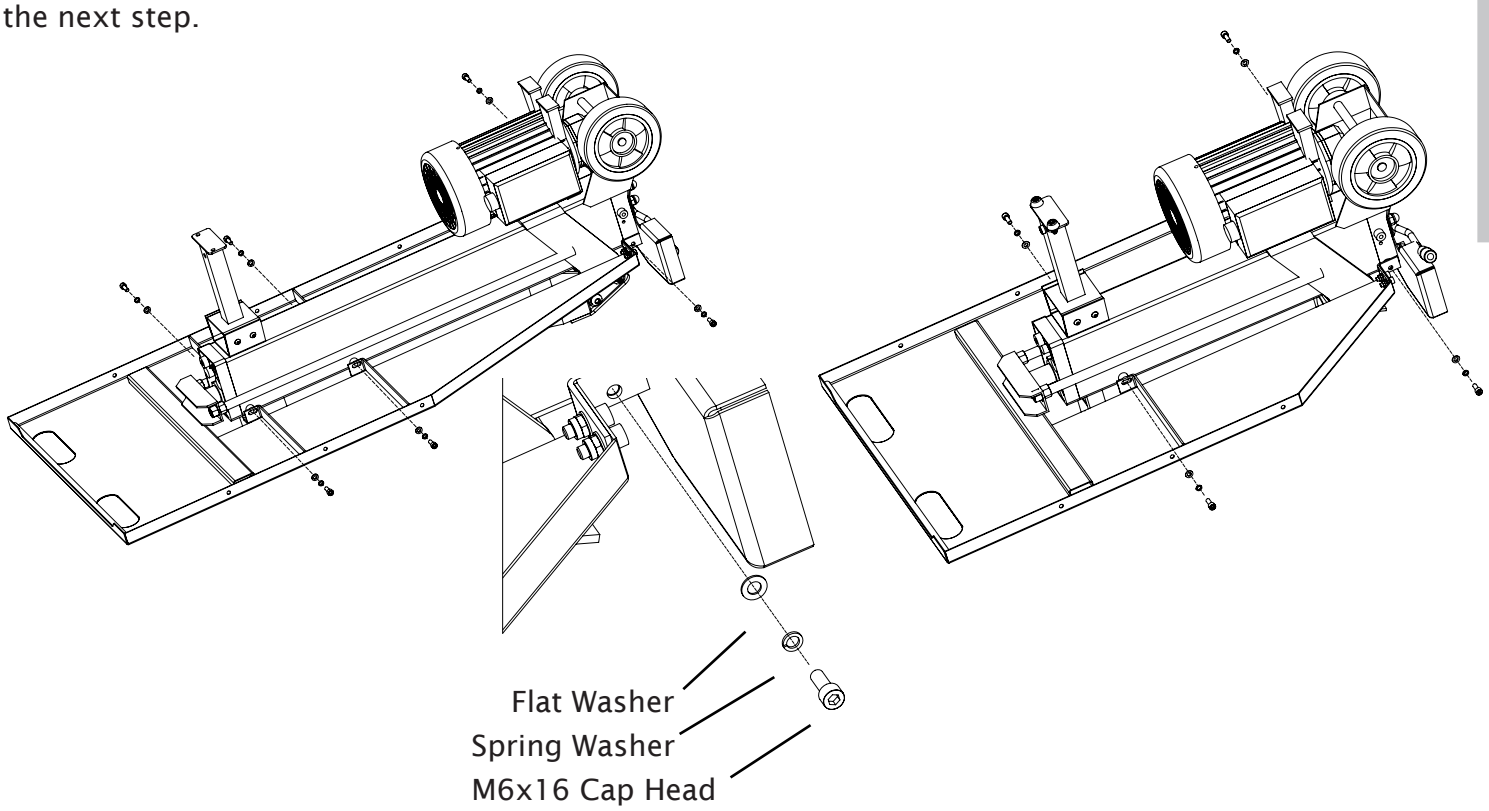


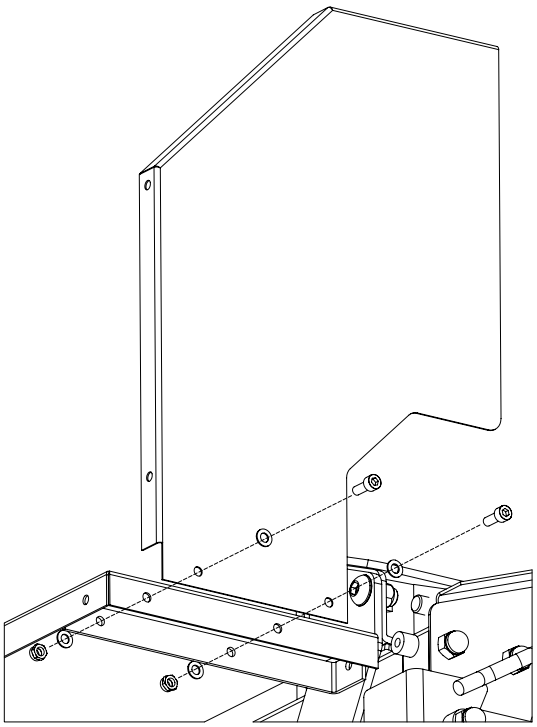
Attaching The Work Bench
For shipping, the rear mounting brackets are fastened to the faces to which they attach, in a reversed position. Before assembly, remove the long mounting bracket (it will be re-attached later) and remove then reverse the short rear bracket. Note that it must still be fixed to the inner face of the rear side.



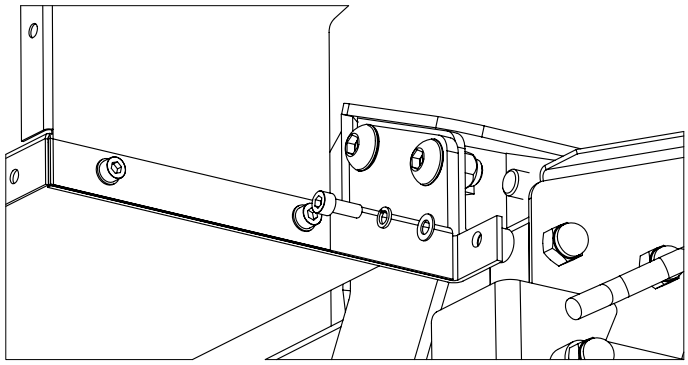


Attach the work bench to the log rail mounting points using the M6x16 cap head bolts, M6 spring washers, M6 flat washers. There are 4 mounting points but note that one of the rear mounting points is for the long rear bracket, which is attached in the next step. Do not fully tighten the bolts until after the next step.



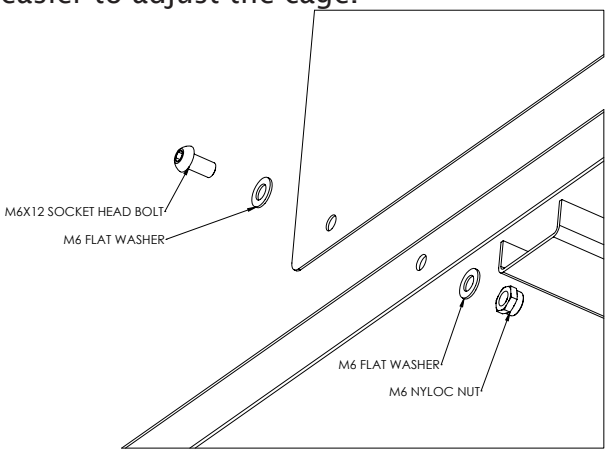


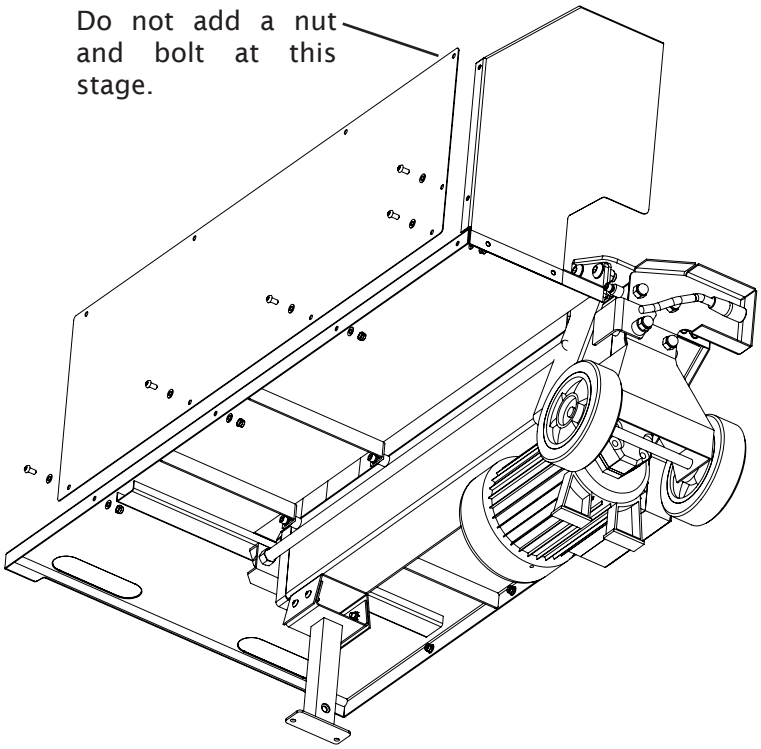
Fit the long rear mounting bracket to the inside face of the long rear edge of the work bench and the rear guard panel to the outside face, using 2 M6x16 cap head bolts, 4 M6 flat washers and 2 M6 nyloc nuts. Then attach the rear bracket to the mounting point on the splitter using an M6x16 cap head bolt, M6 spring washer and M6 flat washer. You should now fully tighten the bolts holding the tray to the log splitter.

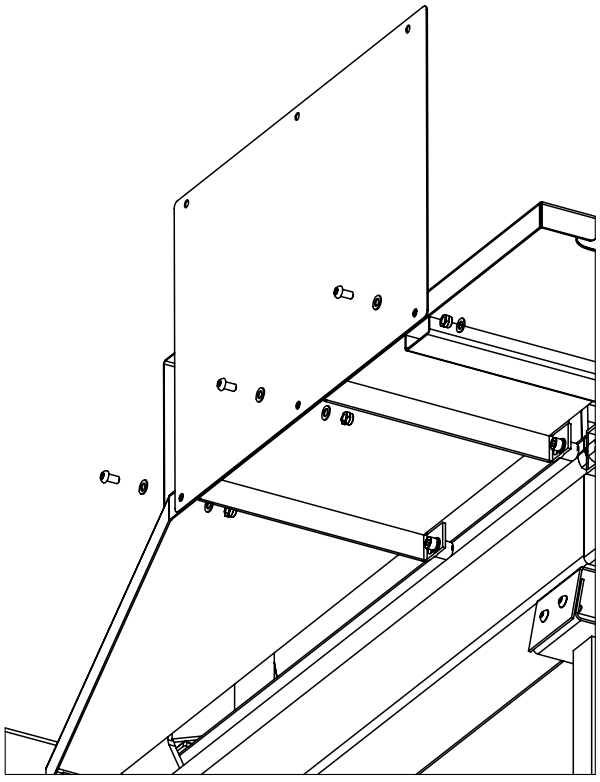


Attach the longer of the two plain guard panels to the left side of the work bench and the rear cage panel. The bottom rear corner has two closely spaced holes, the top rear corner has a single hole approximately 10mm from the rear edge. Do not fasten the top rear corner at this stage.

Use 5 M6x12 button head bolts, 10 M6 flat washers (1 under each bolt head and 1 under each nut) and 5 M6 nyloc nuts. Leave all nuts and bolts finger tight until the last step, this makes it easier to adjust the cage.

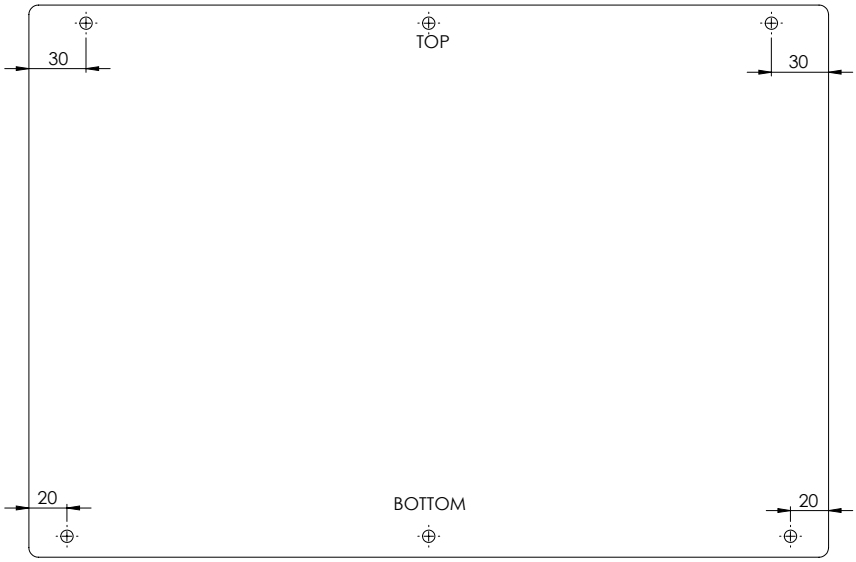






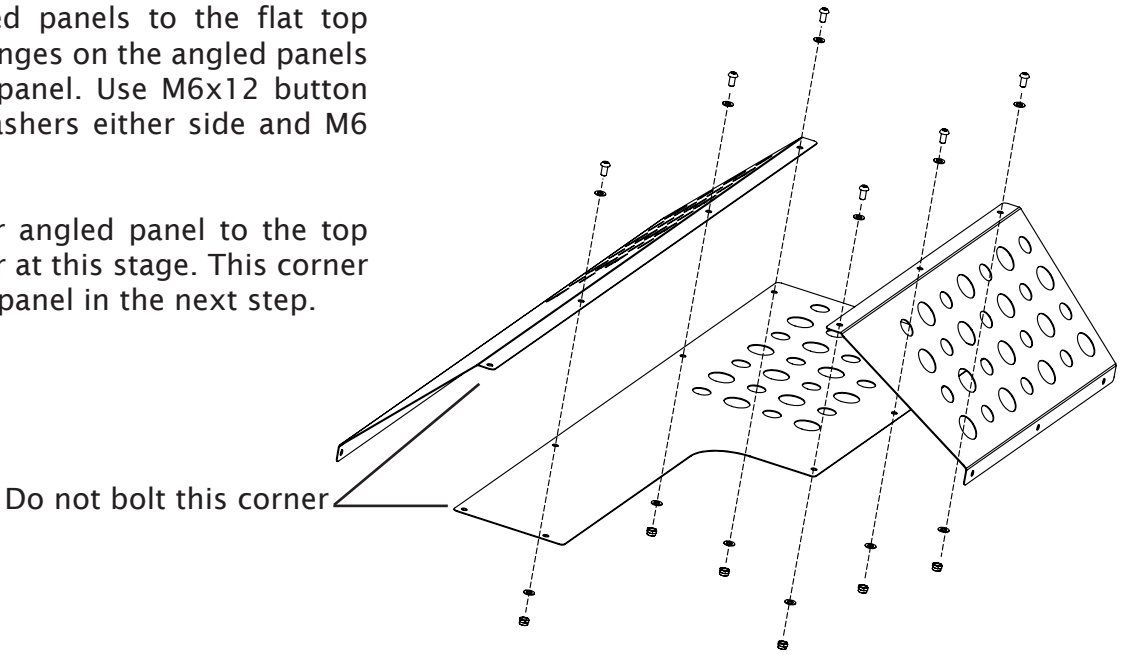
Attach the shorter of the two plain guard panels to the right side of the work bench. For the orientation of the panel see the diagram below.

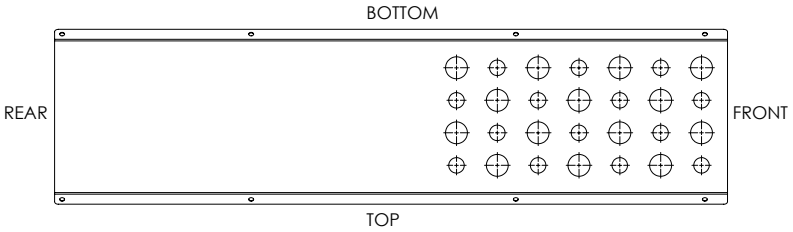
Use 3 M6x12 button head bolts, 6 M6 flat washers (1 under each bolt head and 1 under each nut) and 3 M6 nyloc nuts.



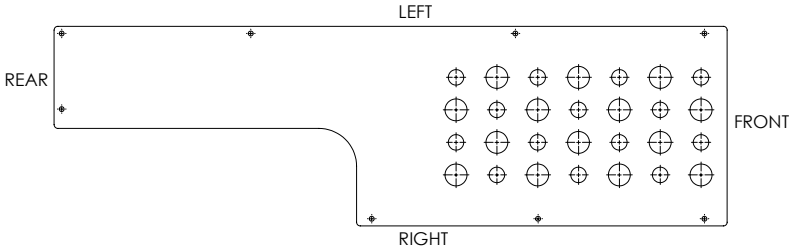
Attach the two flanged panels to the flat top panel, note that the flanges on the angled panels go on top of the top panel. Use M6x12 button head bolts, M6 flat washers either side and M6 nyloc nuts.

Do not join the longer angled panel to the top panel at it's rear corner at this stage. This corner is secured to the back panel in the next step.

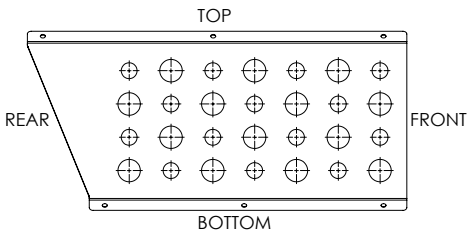




Long Angled Panel



Top Panel

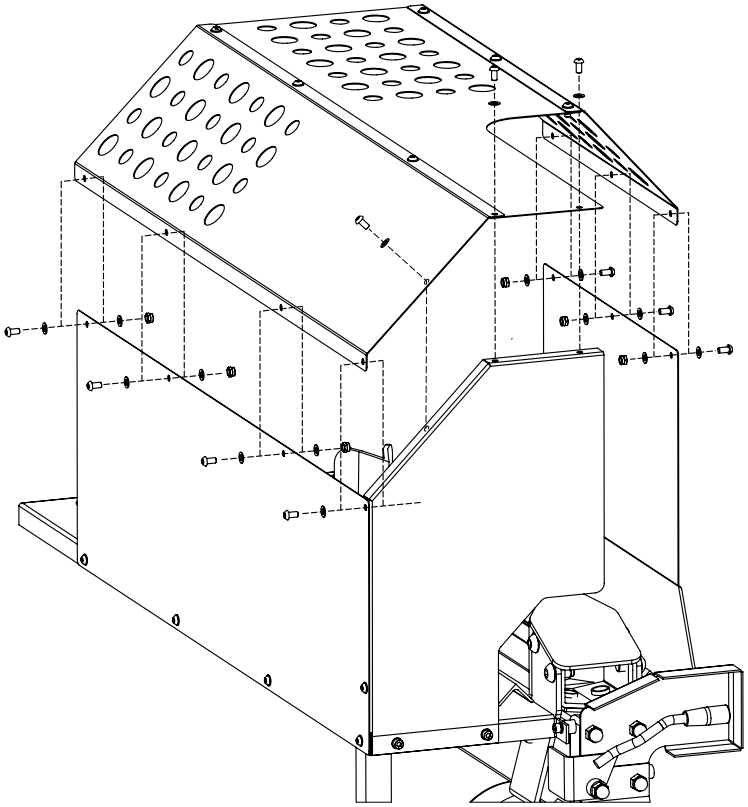


Short Angled Panel

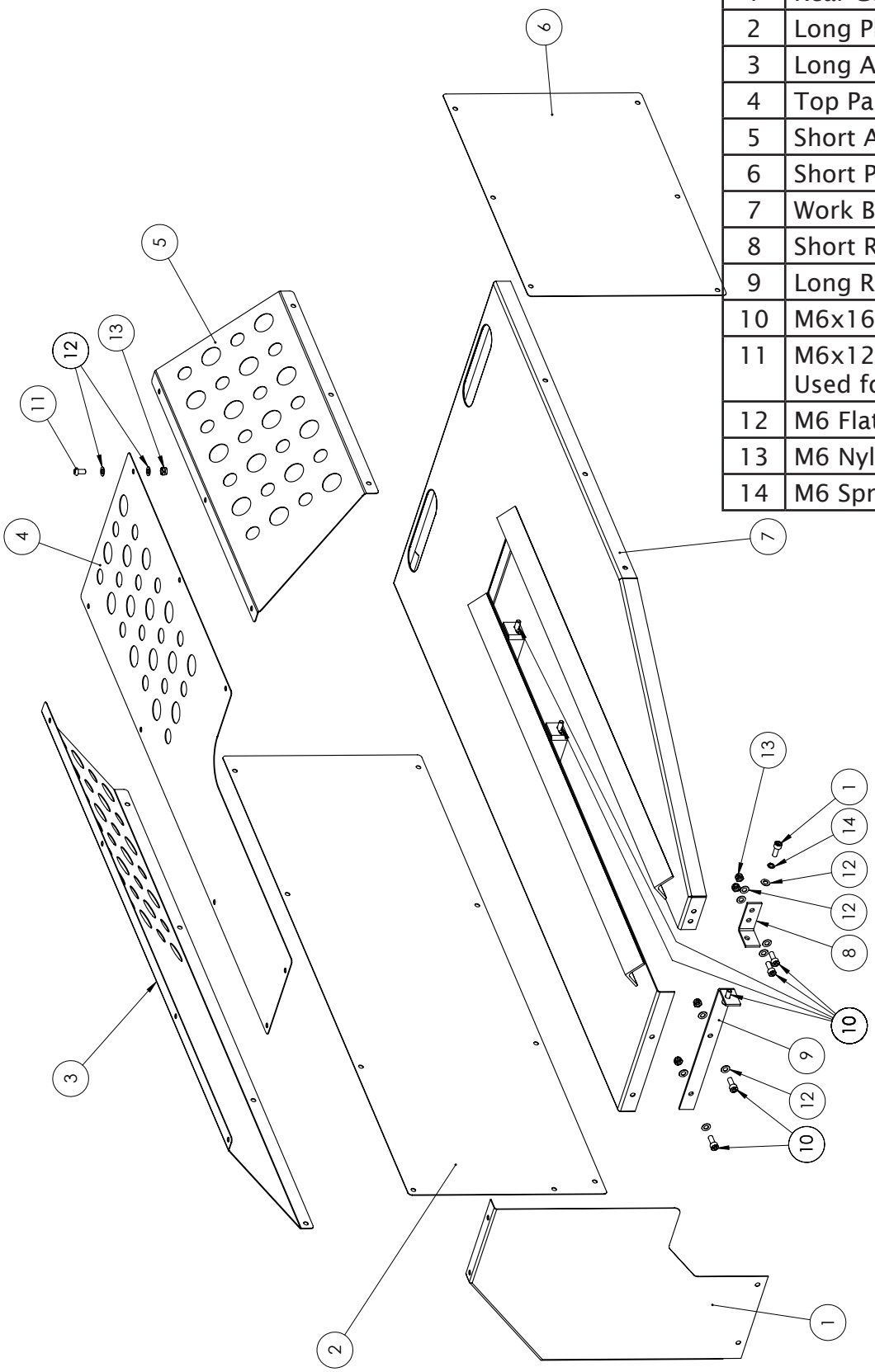
Fasten the assembled top section to the side panels and the rear panel using 10 M6x12 button head bolts, 20 M6 flat washers one either side of the panels for each bolt and an 10 M6 nyloc nut.

Note that the flanges of the angled panels go outside of the plain side panels.

You should now fully tighten all nuts and bolts for the guard and tray.



No.	Description	FM5 FM8	FM 10
1	Rear Guard Panel	1	1
2	Long Plain Panel	1	1
3	Long Angled Panel	1	1
4	Top Panel	1	1
5	Short Angled Panel	1	1
6	Short Plain Panel	1	1
7	Work Bench	1	1
8	Short Rear Bracket	1	1
9	Long Rear Bracket	1	1
10	M6x16 Cap Head Bolts	8	10
11	M6x12 Button Head Bolt Used for all cage bolts	24	24
12	M6 Flat Washer	60	62
13	M6 Nyloc Nut	28	28
14	M6 Spring Washer	4	6



OPERATING CONDITIONS

This log splitter is a home use model. It is designed for operating under ambient temperatures between +5˚C and 40˚C and for installation at altitudes no more than 1000m above M.S.L. The surrounding humidity should be less than 50% at 40˚C. It can be stored or transported under ambient temperatures between -25˚C and 55˚C.

ELECTRICAL REQUIREMENTS (FM5, FM8, FM10)

Connect the main leads to a standard 230V±10% (50Hz±1Hz) electrical supply which has protection devices of under-voltage, over-voltage and over-current as well as a residual current device (RCD) which is maximum residual current rated at 0.03A.

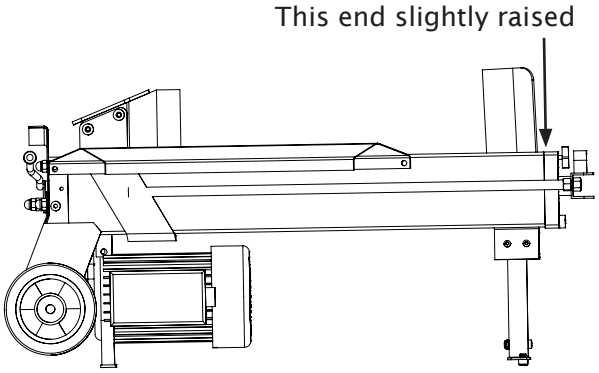
This equipment is fitted with a UK 3 pin mains electricity plug and is supplied with a 2 pin adapter for use where necessary. DO NOT remove the 3 pin mains electricity plug and fit a 2 pin mains electricity plug.

If operating the machine with an extension lead, the extension lead must be at least a heavy duty 2.5mm^2 cable. For best performance the lead should be no more than 10 metres long.

POSITIONING THE LOG SPLITTER

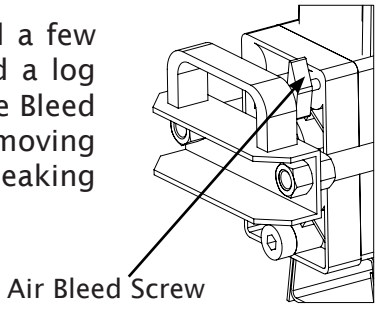
The log splitter should be positioned level or preferably positioned with the end where the fixed wedge is, slightly raised. A difference of 5mm over the length of the log splitter is sufficient.

It **should not** be positioned with the fixed wedge end lower than the operating handle end as this may limit the flow of oil to the pump.



AIR BLEED SCREW

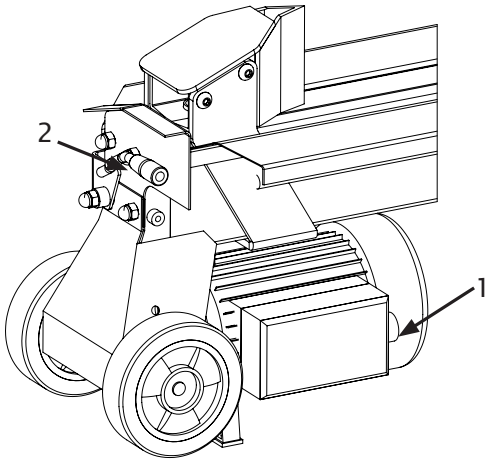
Before operating the log splitter, the Bleed Screw should be loosened a few turns until air can flow in and out of the oil tank smoothly. To avoid a log hitting the bleed screw, ensure the wings are level. Air flow through the Bleed Screw hole should be detectable during log splitter operation. Before moving the log splitter, make sure the Bleed Screw is tightened to avoid oil leaking from this point.



IMPORTANT: failure to loosen the bleed screw will keep air sealed in the hydraulic system, being compressed and being decompressed. Such continuous air compression and decompression will blow out the seals of the hydraulic system and cause permanent damage to the log splitter.

TWO HANDED CONTROL

This log splitter is equipped with a control system that requires operation by both hands of the user. One hand controls the hydraulic control lever while the other hand controls the motor push button switch. The log splitter will freeze upon absence of either hand. Only after both hands release the controls, will the log pusher start to return backward to the starting position.



To split a log, press and hold the button to start the electric motor then press the lever to advance the ram. Do not use excessive force on the lever as this will produce no greater splitting force and can bend the lever.

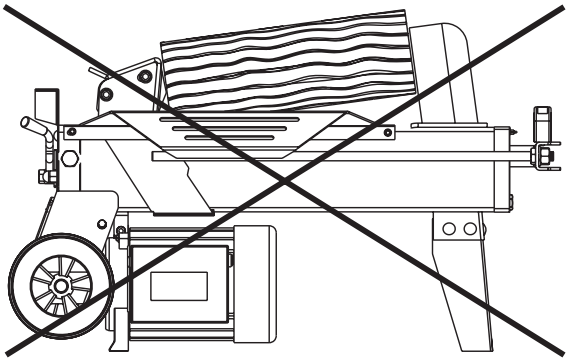
Never move the lever before pressing the motor button.

LUBRICATE THE LOG BED

Some types of wood can contain a lot of sap that may occasionally adhere to the log bed of the log splitter. This can cause the plastic spacer underneath the moving blade or pusher, to stick to the work surface, causing the blade to jerk and possibly pulling the spacer away from underneath the blade.
To avoid this happening, it is recommended to lubricate the log bed of the log splitter before first use and periodically thereafter.
If the plastic spacer does get pulled from under the blade or pusher, do not use the log splitter until the spacer has been refitted.

POSITIONING THE LOG

Always set logs firmly on the log retaining plates and work table. Make sure logs will not twist, rock or slip while being split. Do not force the blade by splitting the log on the upper part. This will break the blade or damage the machine.

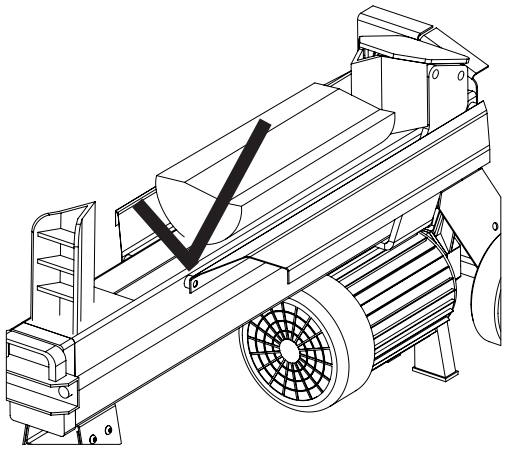


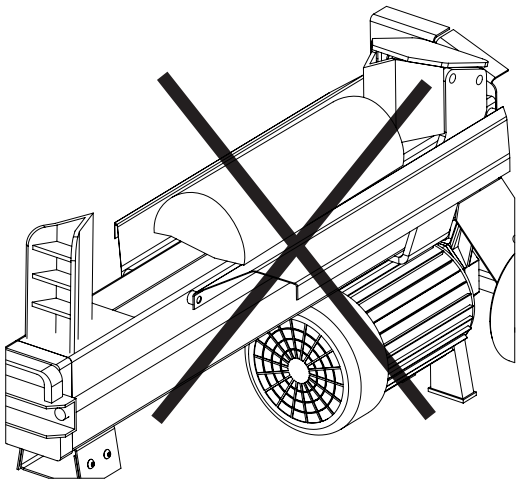
Split the log in the direction of its growing grain. Do not place the log across the log splitter for splitting. It may be dangerous and may seriously damage the machine. Do not attempt to split 2 pieces of log at the same time. One of them may fly up and hit you.

WARNING: Never use the machine without the plastic spacer fitted under the blade.

IMPORTANT: Do not attempt to split a log across the grain.

If splitting a log that has already been split, always place the log so that the split face is uppermost and the bark covered outer face of the log is against the bed of the log splitter.





NEVER place a split log with the split face or faces against the bed of the log splitter, as this can cause the log to jam against the log guides as it splits, thereby bending and possibly breaking the log guides and possibly the body of the log splitter.

SEASONED & HARD LOGS

Electric log splitters are best suited to splitting green logs. When splitting seasoned and hard logs, do not hold the opertaing lever down for anymore than 4 to 5 seconds, holding it down longer may result in serious damage to the machine if the log suddenly splits with a bang. There is also a danger of wood flying off at speed and causing injury if a log splits suddenly.

If a log does not split easily, release the pressure and rotate the log around it's long axis and try splitting at a new position.

Additionally, do not exert force on the operating lever to try and split a log. This will generate no additional pressure and may bend the lever, which can allow the operating valve to shoot out.

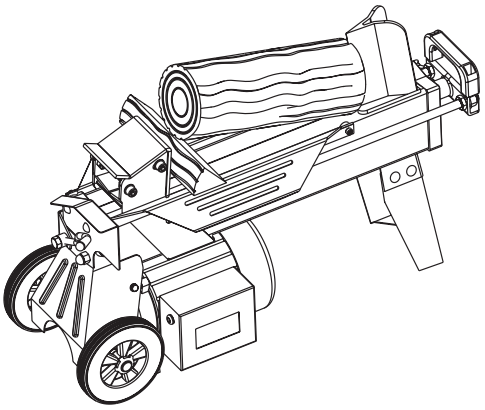
WARNING: Never place the split face or faces of a log against the bed of the log splitter.
IMPORTANT: Never keep pressure on a log for more than 5 seconds to force it to split very hard wood.

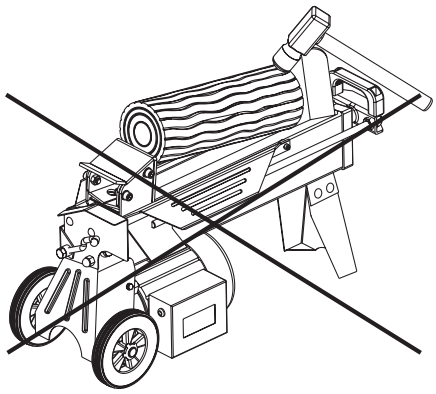
FREEING A JAMMED LOG (FM5, FM8)
Release both controls.

After the log pusher moves back and completely stops at its starting position, insert a wood wedge under the jammed log.

Start the log splitter to push the wood wedge completely under the jammed log.

Repeat above procedure with sharper slope wood wedges until the log is completely freed.

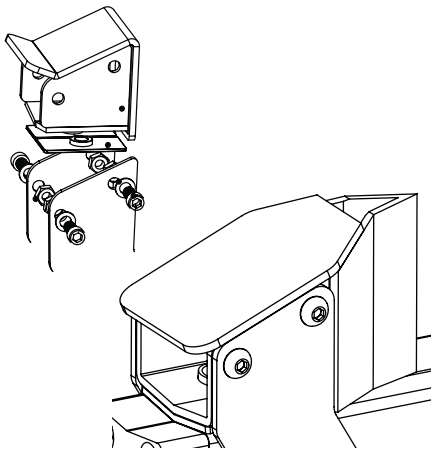




Do not try to knock the jammed log off. Knocking the log will damage the machine or may launch the log and cause an accident.

Due to the FM10 series all being fitted with the Duocut blade, it is extremely unlikely that a log could become stuck on both wedges

FITTING THE DUOCUT BLADE AS AN ACCESSORY (FM5, FM8)



It is easier to fit the Duocut blade if the ram is slightly extended. Operate the machine and move the ram about 150mm/6" forward. Release the button but keep the lever depressed and place a block of wood behind the ram crosspiece.

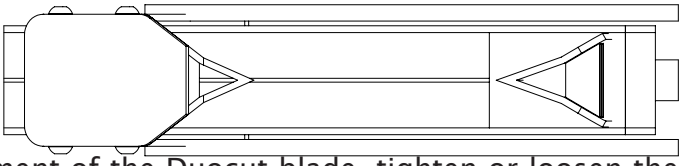
To fit the Duocut blade, remove the four bolts holding the pusher block in place (an open ended offset spanner is best for turning the nuts) and remove the pusher block from the cradle.

Fit the Duocut blade into the cradle and secure with the four bolts and nuts. Note that because the spacer under the Duocut blade is a tight fit between the log bed and the blade, It is necessary to apply leverage to align the bolt holes in the blade and cradle.

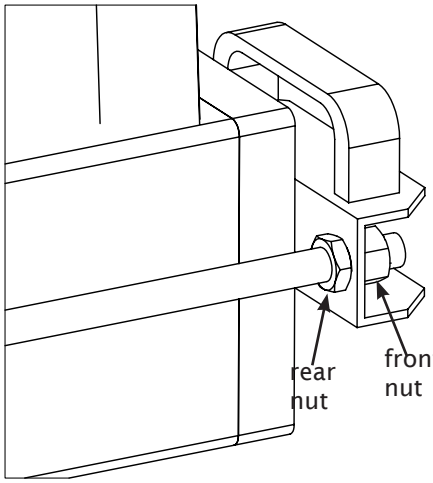
To do this, place a stout screwdriver through the upper forward bolt holes and apply leverage to align the rear holes. Insert the bolts into the rear holes and secure with the nuts, the nuts only need to be finger tight. Remove the screwdriver and insert the bolts into the forward holes and add the nuts. Tighten all the nuts before removing the wood block and allowing the ram to return.

CHECKING THE ALIGNMENT (FM5, FM8 & FM10 All Versions)

Each time of use, before splitting any logs, the alignment of the Duocut blade should be checked and adjusted if necessary. The Duocut blade should point along the centreline of the splitter bed and approximately align (within a few millimetres) with the edge of the fixed blade.



To adjust the alignment of the Duocut blade, tighten or loosen the nuts on the forward end of the each of the cradle arms to increase or decrease their tension.
To increase the tension, turn the rear nut anti-clockwise to loosen it then turn the front nut clockwise to tighten it.
To decrease the tension, turn the front nut anti-clockwise to loosen it then turn the rear nut clockwise to tighten it.



MAINTAINING DUOCUT BLADE ALIGNMENT DURING SPLITTING

Under most circumstances when using your Duocut electric log splitter, there will not be a problem if the blades encounter a knot, as the log splitter will simply stop splitting with the blade that encounters the knot and continue splitting at the other blade.

However there is a possibility that, if the moving Duocut blade encounters a knot at a shallow angle then rather than stopping, the blade may be deflected off line and if splitting continues the moving carriage arms can be bent out of alignment.

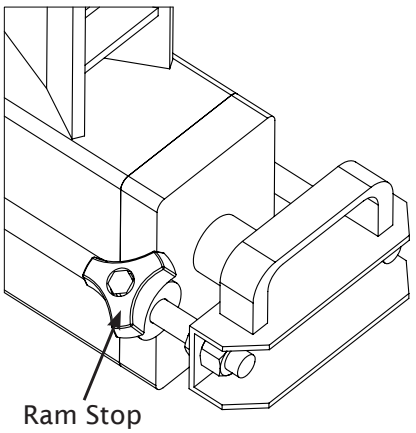
When splitting logs, you should therefore monitor the moving duocut blade and if you observe the blade being deflected away from the centreline of the splitter, you should stop splitting immediately. After the blade has returned to its stop you should turn the log through 90 degrees about the long axis and try splitting the log again.

To minimise the possibility of a knot deflecting the blade, it is recommended to place logs that have a visible knot, so that the knot is vertical. Note however that as explained on page 13, you must not place a log with a split face towards the bed of the log splitter in order to position a knot vertically.

RAM STOP (FM10 Only (All Versions)

Loosen the knob on the ram stop so that it is free to slide on the bar. Operate the log splitter to move the ram forward to the required length.

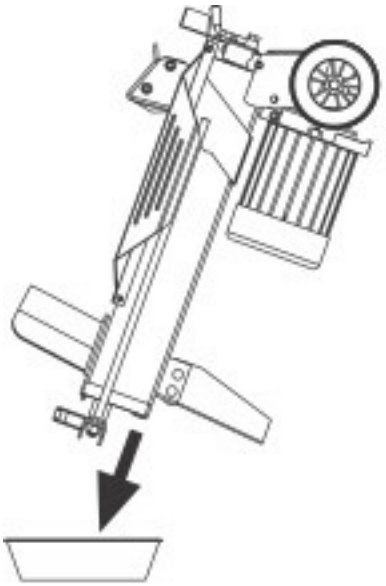
Holding the operating lever in place to ensure the ram does not return, position the ram stop against the front of the splitter and tighten using the knob. The ram stop can be adjusted by simply unscrewing the knob and sliding along the cradle bar, the ram may need to be moved forward depending on the length of log you wish to split. The operating lever must be held in place when unscrewing the ram stop or the ram will return.

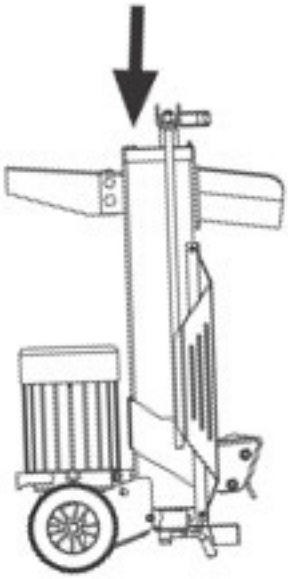


IMPORTANT: Ensure the motor is switched off and only use the operating lever to hold the ram in position when adjusting the ram stop.

REPLACING THE HYDRAULIC OIL

Replace the Hydraulic oil in the log splitter after every 150 hours of use as follows.





- Make sure all moving parts are stopped and the log splitter is unplugged.
- Unscrew Oil Drain Bolt with Dipstick to remove it.
- Tip the log splitter onto the Support Leg end over a 4 litres capacity container to drain the hydraulic oil off.
- Tip the log splitter onto the motor end so that it is vertical.
- Refill with fresh hydraulic oil to the volume given for a particular model in technical specifications table.
- Clean the surface of Dipstick attached to the Oil Drain Bolt and screw it back into the oil tank while keep the log splitter vertical.
- Make sure the level of the refilled oil is no more than 10mm above the 1st groove on the dipstick.
- Clean the Oil Drain Bolt threads before re-inserting. Make sure it is tightened to avoid leakage before placing the log splitter horizontal.
-

Periodically check oil level to ensure it is between the 2 grooves around the Dipstick. When the oil level reaches the lower groove, oil refilling is required. For optimum performance we recommend using our specially formulated HYD46+ hydraulic oil, available on our website www.forest-master.com.

SHARPENING WEDGE(S)

After using the log splitters for some time, sharpen the wedge of the log splitter using a fine-toothed file and smooth any burrs or crushed area along the cutting edge.

MOVING CARRIAGE

When new, it may be noticed that occasionally the moving carriage is slow to return or does not return fully when the controls are released. This is due to the necessary close fit between the plastic spacer that is fitted under and up the sides of the pusher or Duocut blade. With use this spacer will wear so that the carriage returns correctly.

If after using the log splitter for a while, the carriage is still slow to return or does not return fully, follow the procedure below.

Lie the splitter on one side and remove the two bolts securing the pusher/blade on that side. Remove the washers from the outside of the carriage and place them between the carriage and the pusher/blade. If it is difficult to get the washers in then the gap can be opened with a flat bladed screwdriver.

Test the log splitter and if the carriage is still not returning correctly, repeat the procedure with the bolts on the opposite side.

Note that when the plastic spacer has finally bedded in, it is recommended to return the washers to the outside position.

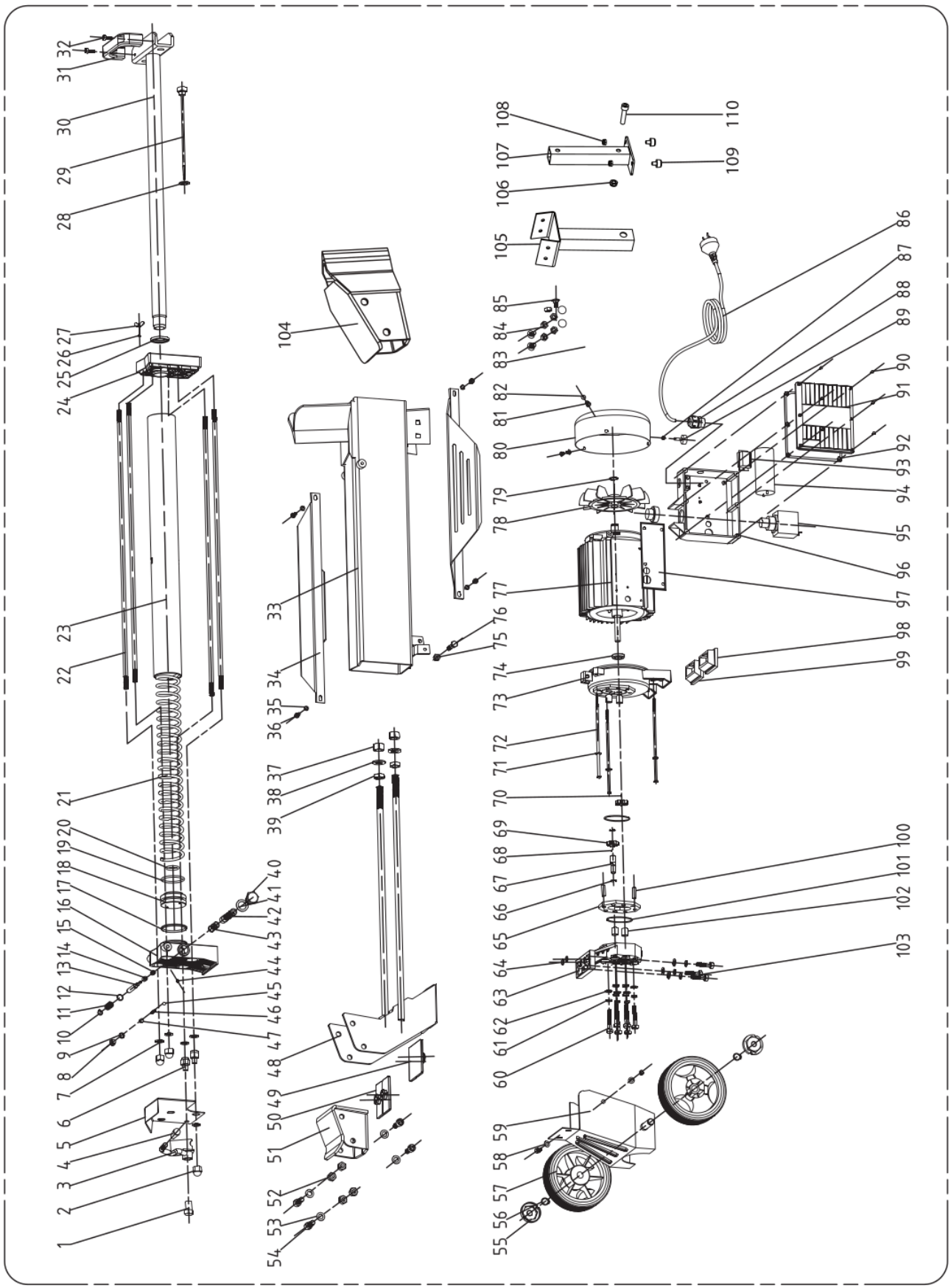
STORAGE

This machine should be dried before storing and must be stored in an enclosed dry environment. If it is left in a damp humid environment then water damage may occur to the motor. It should not be stored under a wood store.

PROBLEM	PROBABLE CAUSE	REMEDY
Fails to split logs	Log is improperly positioned	Refer to “Operation” section for correct log loading.
	The sizes or hardness of the log exceeds the capacity of the machine	Reduce the log sizes before splitting it on the log splitter
	Operating lever obstructed	Check that the plastic knob on the end of the operating lever has not unscrewed and obstructed it’s movement.
	Wedge cutting edge is blunt	Refer to “Sharpening Wedge“ section.
	Low pressure caused by unauthorised adjustment of the Max. Pressure Limiting Screw.	Contact the dealer.
	Operating valve needs cleaning	Ensure the ram is back to the starting position. Remove the nut holding the lever and remove the lever. Remove the valve, check the O-Ring and clean the valve with lint free cloth. Replace the valve and the lever.
	Partial blockage of the pump oil ways.	Close the bleed screw. Turn the splitter upside down. Undo the 3 bolts fastening the pump to the underside of the rear end plate and the horizontal bolt at the top of the motor end cover. Check the oilways in the pump and the end plate for signs of a blockage. If no sign of a blockage, contact the dealer
The carriage moves slowly, jerkily.	Sap on log bed	Clean log bed using carb cleaner or similar. Dry off then apply a thin layer of grease.

PROBLEM	PROBABLE CAUSE	REMEDY
The carriage moves slowly, jerks, making unfamiliar noise, fails to split	Log splitter pointing downhill	Check that the front (fixed blade end) of the log splitter is not pointing downhill, the splitter should be level or pointing uphill.
	Low oil level	Check oil level or raise the front foot on a block of wood, if the splitter works normally then the oil level is low, top up.
Oil leaks around cylinder ram	Air sealed in hydraulic system while operating.	Loosen Bleed Screw by 3 ~ 4 rotations before operating the log splitter
	Bleed Screw is not tightened before moving the log splitter.	Tighten the Bleed Screw up before moving the log splitter.
	Oil Drain Bolt with Dipstick is not tight.	Tighten the Oil Filler Bolt.
Oil leaks around rear of motor or other points	Seals worn or pump leaking	Locate the oil leak. Clean the area around the rear of the motor and log splitter with white spirit and dry it. Dab around the area with kitchen towel which should pick up spots of oil from the source of the leak. It may help to operate the pump. After locating the leak contact the dealer.
As soon as the motor starts, the carriage begins to move without pressing the lever.	Operating valve sticking and not springing back out	Check that end of the valve stem is in contact with the face of the lever, if not. Remove the nut holding the lever and remove the lever. Remove the valve, check the O-Ring and clean the valve with lint free cloth. Replace the valve and the lever.
Carriage moves without pressing the lever and the splitter fails to split logs.	Operating valve sleeve misaligned	Remove the valve as above. Loosen the grub screw in the angled hole below the valve sleeve then use a wooden drift to tap in the sleeve and tighten the grub screw.
No power to motor or motor won't start	Fuse blown or RCD tripped	Check fuse in plug. Check RCD for the ring main has not tripped. If the RCD has tripped, try the machine on a separate ring main. If it repeatedly trips, unplug all other equipment from sockets on the ring main and switch these sockets off. Try to start the motor.

PROBLEM	PROBABLE CAUSE	REMEDY
No power to motor or motor won't start	Capacitor failed or failing	If the motor makes a humming noise but does not start the capacitor may have failed. Replace the capacitor.
Log splitter trips RCD each time it starts or after running for a short while	Motor jammed	Check motor turns freely, remove the black fan cover. It should be possible to turn the fan with slight pressure from one finger. If not check for obstructions of the fan.
	Pump gears binding	Loosen each of the 6 bolts on the back of the pump by ¼ of a turn and check if the motor turns freely.
	Pump gears jammed	Remove the 6 bolts from the pump and separate the motor and pump. Check the gears for any silicone sealant or other material. When reassembling, the torque for the bolts is 12 ft lb, 16 N m.
Ram does not return fully or returns jerkily	Moving carriage is obstructed	Check underneath the blade/pusher and down the sides of the carriage, for any splinters of wood that may be obstructing the carriage. Also check that the plastic spacers underneath the blade and between the carriage and the underside of the splitter have not been dislodged.
	Sap on log bed	Check the log bed for a build up of sap. Clean the bed and apply a thin layer of grease to the bed.
	Moving carriage arms bent	Use the Ramstop to lock the ram in position about 150mm forward. Remove the 4 bolts holding the Duocut blade/pusher to the carriage and remove the blade/pusher. Unlock the Ramstop, if the carriage returns then the arms are bent. Check the amount of bend with a straight edge, if it is less than 5mm then you may be able to straighten them in a vice.
	Ram bent	If the ram does not return after removing the Duocut blade. Loosen the 2 rear lock nuts on the carriage arms and remove the 2 nuts in front of the crosspiece. Remove the carriage from the log splitter. If the ram does not return contact the dealer.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33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54
55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110

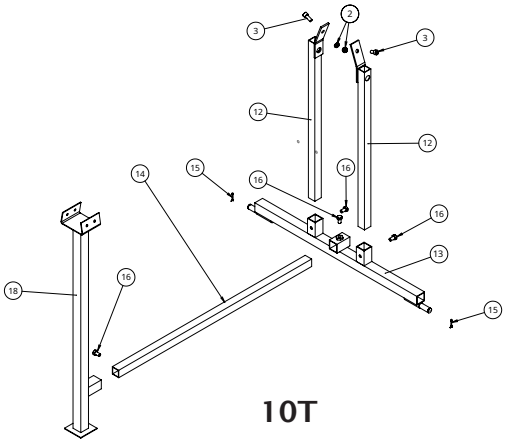
Item	Description
1	Lever Mount Nut
2	Nut Cap M10
3	Lever
4	Lever Knob
5	Guard Plate
6	Nut
7	Copper Gasket
8	Screw M8
9	O-ring 5.5x2
10	Snap Washer
11	Valve Retract Spring
12	O-ring 6x1.5
13	Valve Core Rod
14	Sliding Pressure Sensor Sleeve
15	Sliding Pressure Sensor Sleeve Spring
16	Aluminium Cover Rear
17	O-ring 55x3.1
18	Piston
19	Piston Ring
20	O-ring 32x3.5
21	Spring
22	Stud
23	Hydraulic Cylinder
24	Aluminium Cover Front
25	Piston Rod Seal
26	O-ring 7x1.9
27	Wing Bolt M5x12
28	Washer Groupware
29	Dipstick
30	Piston Rod
31	Lift Handle
32	Screw M6x16
33	Frame Tube
34	Log Guide
35	Spring Washer
36	Screw M6x10
37	Nut
38	Flat Washer
39	Nut M14
40	Nut Plug
41	Washer Groupware
42	Valve Sleeve
43	O-ring 14x1.9

Item	Description
44	Adjusting Screw
45	Steel Ball 6
46	Pressure Limited Valve Spring
47	Adjusting Screw
48	Moving Carriage
49	Plastic Insert 1
50	Plastic Insert 2
51	Log Pusher (FM8)
52	Nut
53	Flat Washer
54	Screw
55	Wheel Cover
56	Block Turn
57	Wheel
58	Washer
59	Wheel Shelf
60	Bolt M8x55
61	Spring Washer
62	Washer
63	Gear Pump Cover
64	O-ring 10.6x2.65
65	Gear Housing Plate
66	Circlip
67	Gear Shaft
68	Steel Ball 2.5
69	Gear
70	Pin 2.5x4
71	Washer
72	Bolt
73	Motor Cover
74	Seal FB11x26x7
75	Nut
76	Screw M8x35
77	Motor
78	Fan
79	Block Turn
80	Fan Cover
81	Spring Washer
82	Cross Head Screw M5x10
83	Leg Groupware
84	Nut M8
85	Bolt M8x12
86	Power Cable

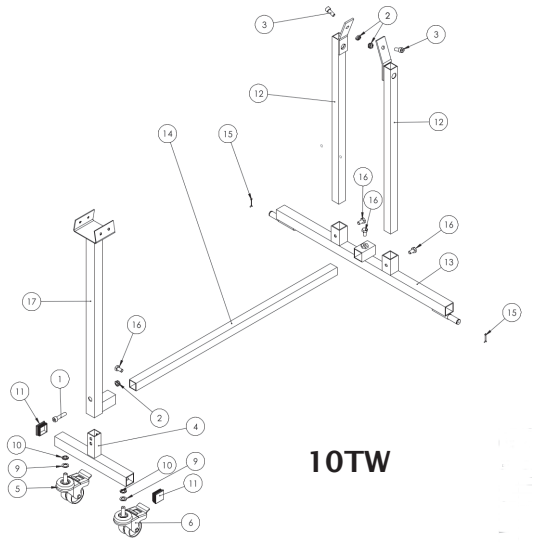
Item	Description
87	Nut M5
88	Power Cable Grommet
89	Adjustable Foot Bolt
90	Screw M4x10
91	Switch Box Cover
92	Airproof Underlay
93	Connection Terminal
94	Capacitor
95	Switch
96	Switch Box
97	Waterproof Underlay
98	Motor Foot Shoe Left

Item	Description
99	Motor Foot Shoe Right
100	Pin 8x24
101	O-ring 46.2x1.8
102	Sliding Sleeve
103	Bolt M8x30
104	Duocut Blade (FM10)
105	New Front Leg
106	M8 Nyloc Nut
107	New Front Foot
108	M6 Nyloc Nut
109	M6 Rubber Foot
110	M8x35 Cap Head Bolt

10T STAND and 10TW TROLLEY PARTS



10T



10TW

Item	Description
1	M8x35 Cap Head Bolt (10TW)
2	M8 Nyloc Nut
3	M8x20 Cap Head Bolt
4	Castor Cross Beam (10TW)
5	Castor (10TW)
7	Castor Plate Nut (10TW)
9	M10 Washer (10TW)
10	M10 Spring Washer (10TW)
11	30mm End Cap (10TW)
12	Rear Leg
13	Wheel Cross Beam
14	Longitudinal Beam
15	Split Pin

Item	Description
16	M10x20 Bolt
17	Front Leg 10TW Trolley
18	Front Leg 10T Stand

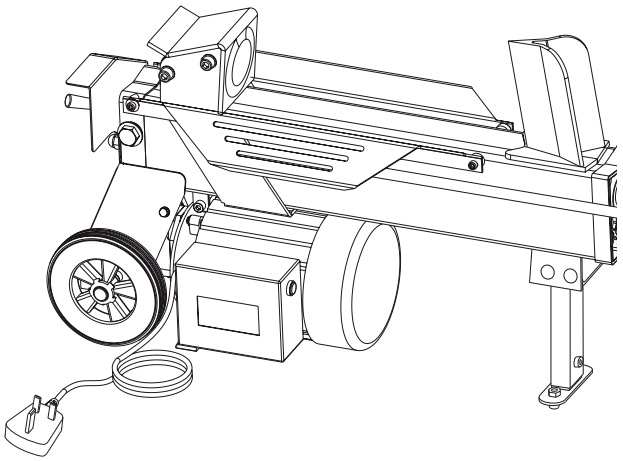
10T STAND ASSEMBLY

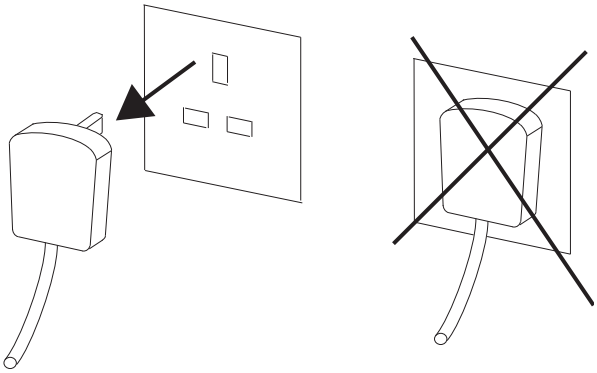
1. Before starting assembly, ensure the log splitter is disconnected from the power supply.

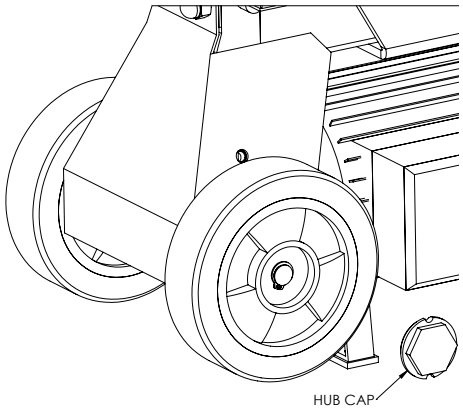
Ensure the bleed screw on the log splitter is closed.

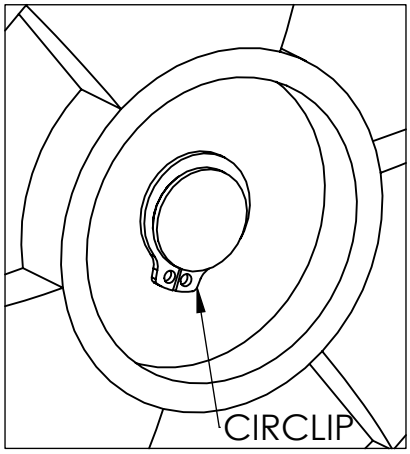
If you have someone to assist you in turning the log splitter over then it may be easier to attach the stand to the log splitter with the splitter upside down.

Alternatively you can prop the log splitter vertically against a wall, with the motor end at the bottom. Then when assembled it can be lowered to the ground with the wheels acting as a pivot.







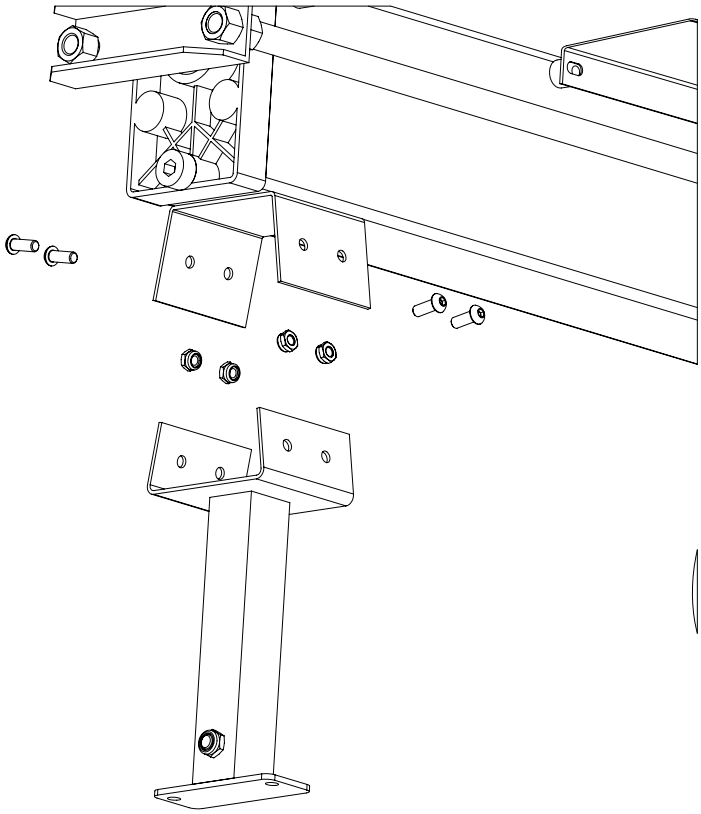


2. Remove the rear wheels from the log splitter.

Prise the hubcaps off with a flat bladed screwdriver. They are push on not screw on.

Remove the retaining circlip from the groove using either a pair of circlip pliers or a small flat bladed electricians screwdriver. If using a screwdriver, insert it into a gap between the circlip and axle, lever one end off then the other. Retain the circlips for attaching the wheels to the stand.

Remove the wheels.

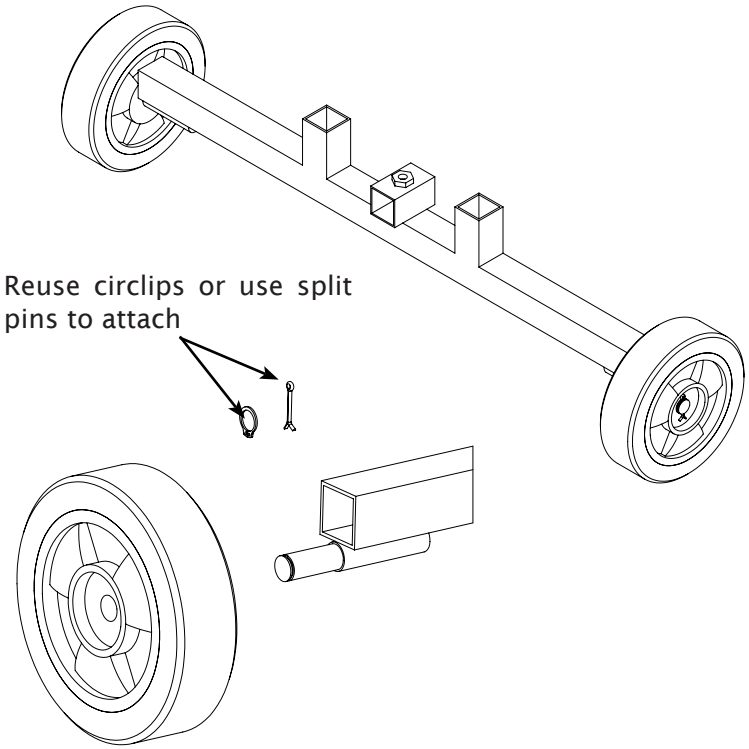


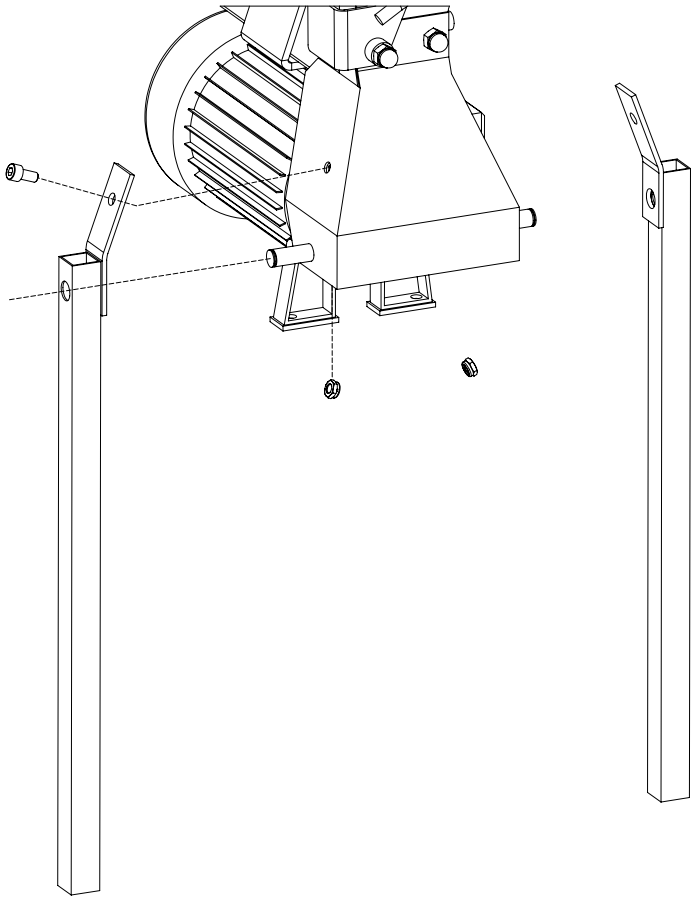
3. Remove the 4 bolts and nuts holding the front leg to the body and remove the front foot assembly from the log splitter. Keep the nuts and bolts as they will be used to attach the stand front leg.

Keep the front leg in case at any time you wish to remove the splitter from the stand and use it at ground level.

4. Attach the rear wheels you have removed from the splitter, to the rear axle bar(3). To secure the wheels, you can either reuse the circlips or use the additional split pins supplied.

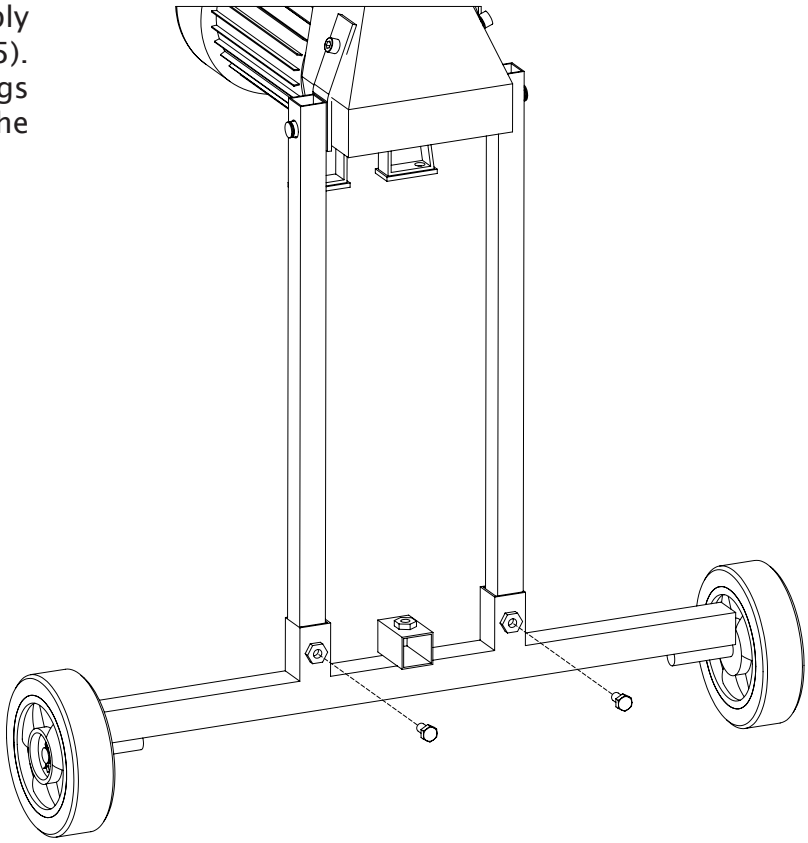
Refit the hubcaps, these just push on.

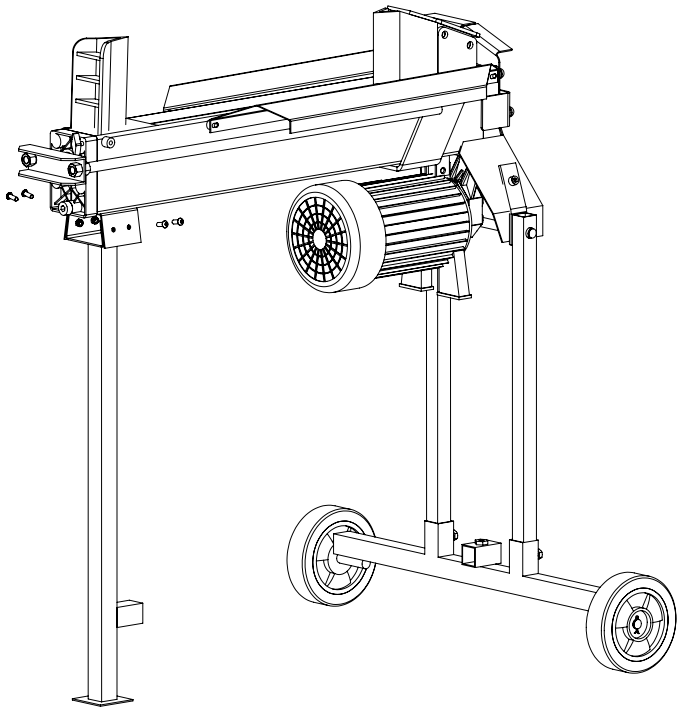




5. Attach the rear legs(1) to the wheel carriage of the log splitter. The axles of the carriage go through the large holes in the legs. Secure them to the sides of the wheel frame using the 2 M8x20 cap head bolts(6) and two M8 nuts(7). Insert the bolts through the hole in the leg flange and the hole in the side of the wheel carriage. The nuts go inside the wheel carriage.

6. Attach the rear axle bar and wheel assembly to the rear legs using 2 of the M8 x 15 bolts(5). Note that there are no holes in the rear legs for the bolts. The bolts tighten up against the legs.



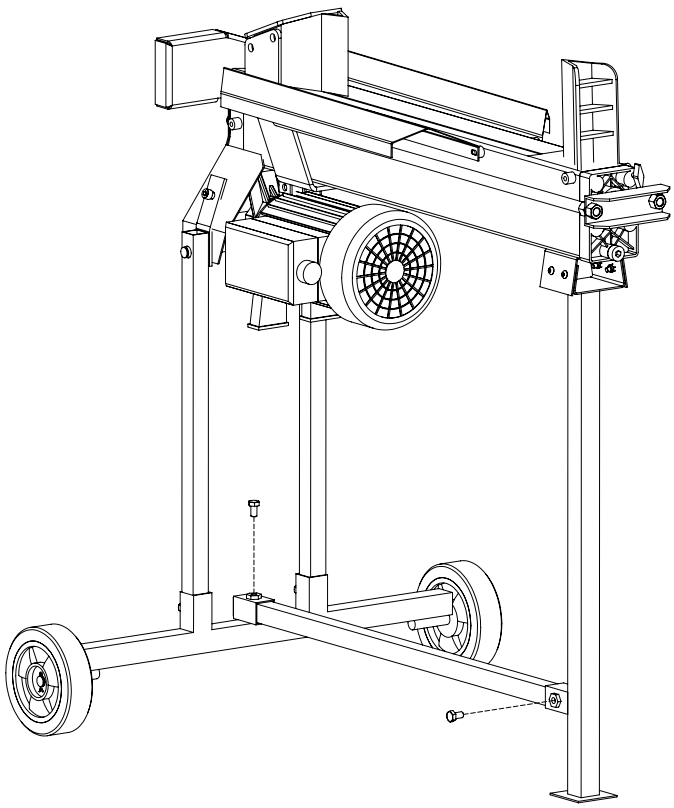


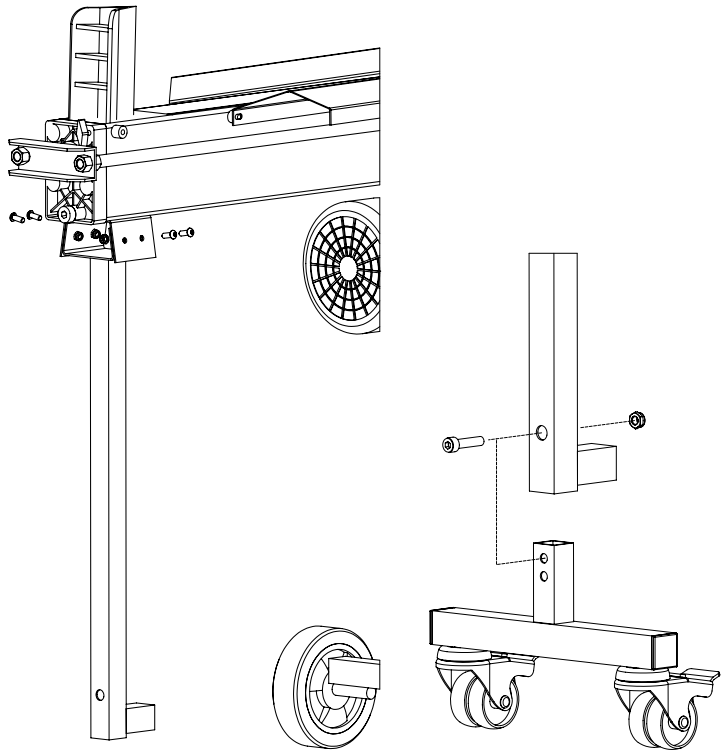
7. Attach the stand front leg(2) to the log splitter using the 4 bolts and 4 nuts that where removed from the short front leg in step 3.

8. Attach the longitudinal beam(4) to the front leg and the assembled wheel cross beam, using the remaining 2 of the M8x15 bolts(5). Note that the bolts tighten against the longitudinal beam, there are no holes in it.

Note that the stand is designed to fit the FM5, FM8 & FM10 log splitters, therefore the longitudinal beam will protrude out the rear of the wheel cross beam. For the FM5 & FM8, the longitudinal beam can be cut in length to shorten it if desired. For the FM8 it can be cut to 600mm and for the FM5 530mm. A standard hacksaw should be used if cutting the beam.

The log splitter can now be rotated to the upright position from the position in which the stand has been assembled. Depending on which splitter you have , this may require two persons.





10TW TROLLEY ASSEMBLY

Follow the instructions for the 10T stand assembly as far as the end of step 6.

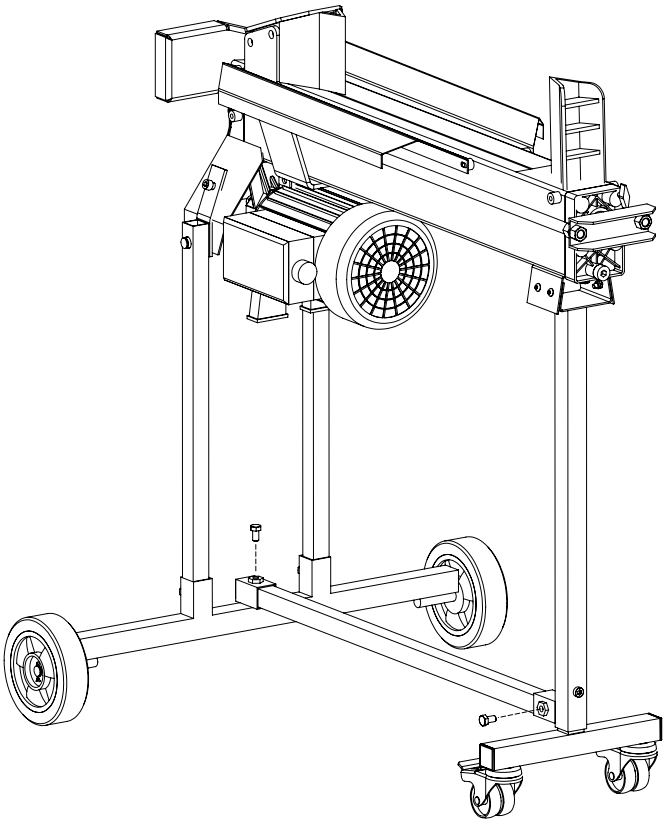
7. Attach the stand front leg(2) to the log splitter using the 4 bolts and 4 nuts that where removed from the short front leg in step 3.

Attach the castor foot assembly(9) to the front leg using the M8 x 35 bolt and M8 nut from step 3. Note the bolt goes through the upper hole in the castor assembly.

8. Attach the longitudinal beam(4) to the front leg and the assembled wheel cross beam, using the remaining 2 of the M8x15 bolts(5). Note that the bolts tighten against the longitudinal beam, there are no holes in it.

Note that the stand is designed to fit the FM5, FM8 & FM10 log splitters, therefore the longitudinal beam will protrude out the rear of the wheel cross beam. For the FM5 & FM8, the longitudinal beam can be cut in length to shorten it if desired. For the FM8 it can be cut to 600mm and for the FM5 530mm. A standard hacksaw should be used if cutting the beam.

The log splitter can now be rotated to the upright position from the position in which the stand has been assembled. Depending on which splitter you have , this may require two persons.



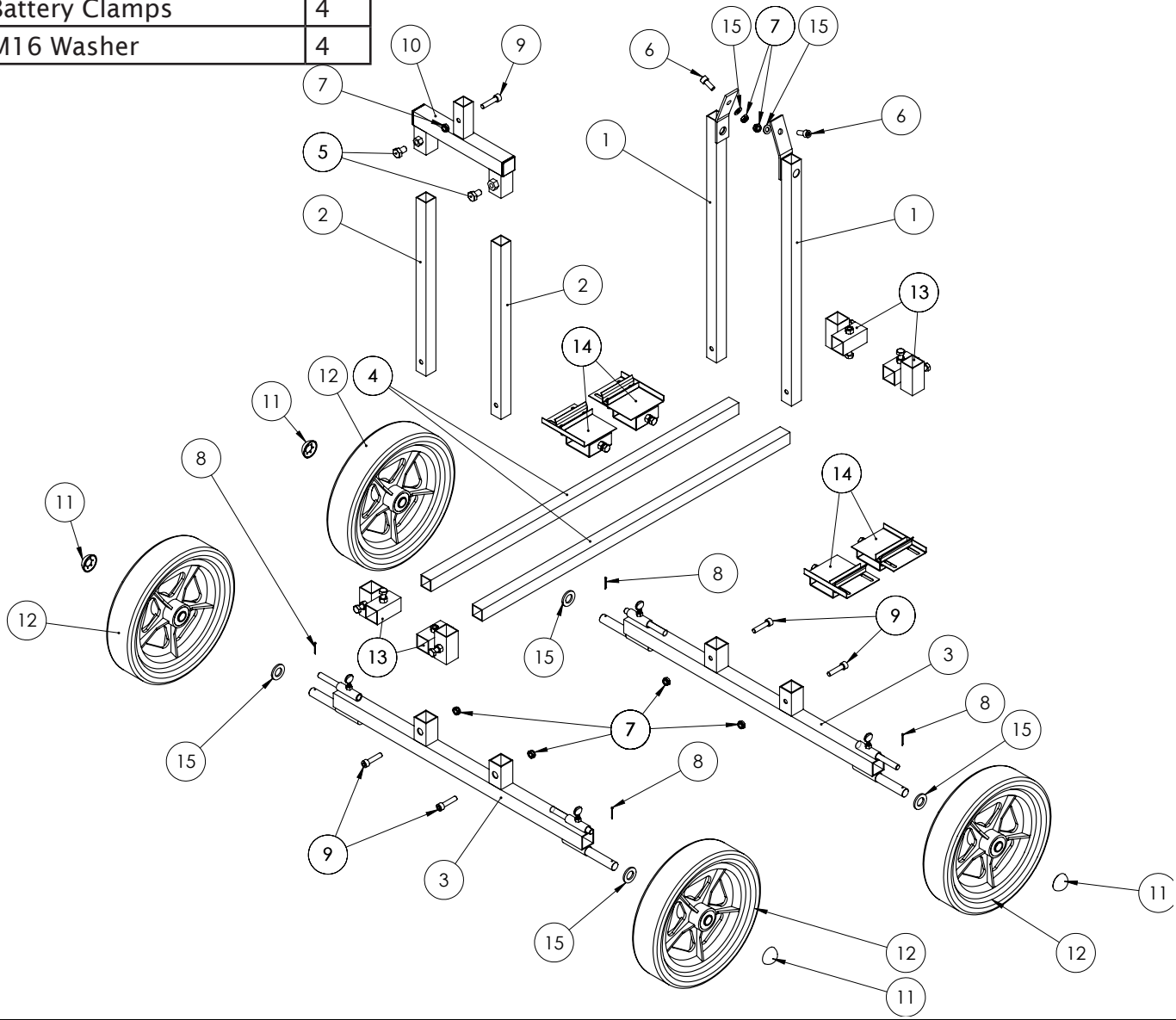
ALL TERRAIN STAND

Part No.	Description	Qty
1	Rear Legs	2
2	Front Legs	2
3	Axle Bar	2
4	Longitudinal Support Bar	2
5	M10 x 20 Bolts	4
6	M8 x 20 Allen head Bolts	2
7	M8 Nuts	7
8	Split Pins	4
9	M8x35 Allen Head Bolt	5
10	Front Leg mount	1
11	Dome Caps	4
12	Wheels	4
13	Leg Clamps	4
14	Battery Clamps	4
15	M16 Washer	4

The All terrain Stand is designed to fit both our mains powered and battery powered log splitters.

If you are using it on a mains powered log splitter, there is no need to fit the battery clamps(14), as detailed in step 12.

Do not use the log splitter when on the stand without first locking the wheels with the brake pins, see step 13.

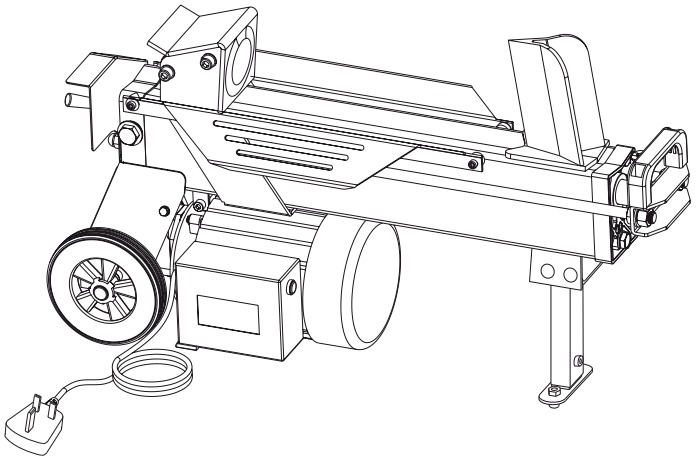


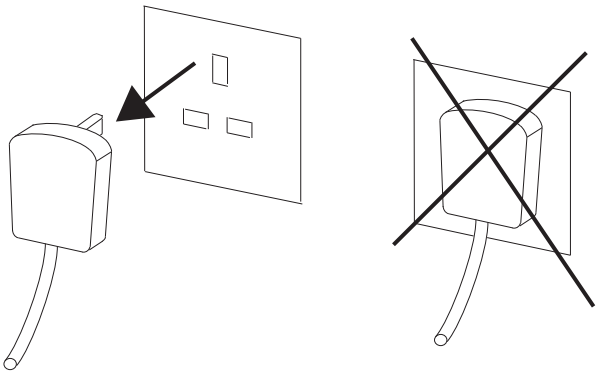
1. Before starting assembly, ensure the log splitter is disconnected from the power supply.

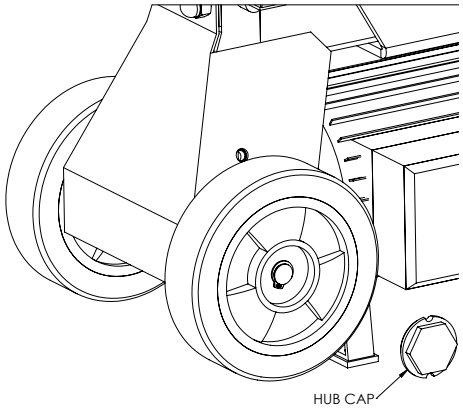
Ensure the bleed screw on the log splitter is closed.

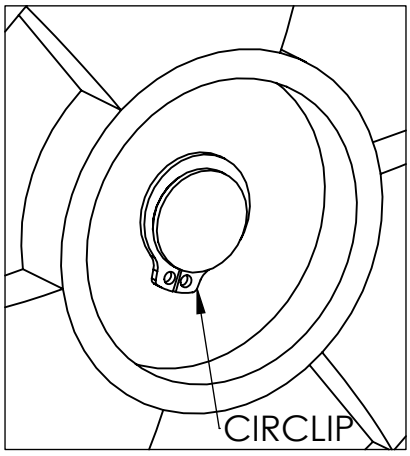
If you have someone to assist you in turning the log splitter over then it may be easier to attach the stand to the log splitter with the splitter upside down.

Alternatively you can prop the log splitter vertically against a wall, with the motor end at the bottom. Then when assembled it can be lowered to the ground with the wheels acting as a pivot.







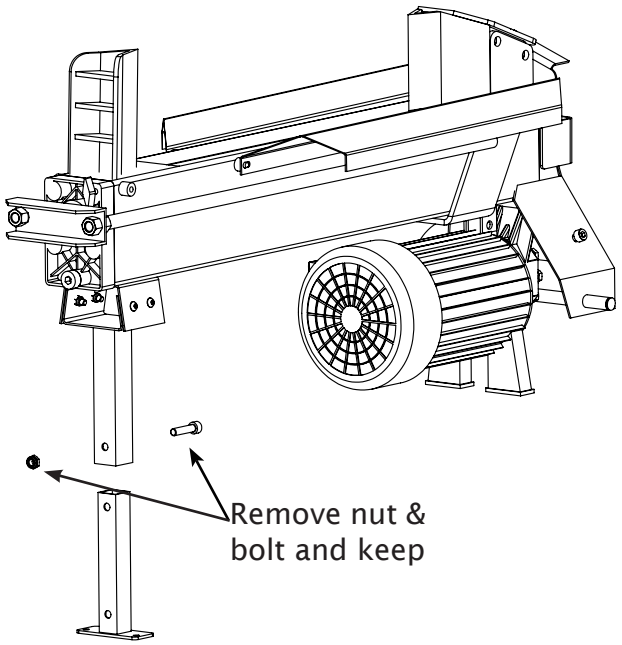


2. Remove the rear wheels from the log splitter.

Prise the hubcaps off with a flat bladed screwdriver. They are push on not screw on.

Remove the retaining circlip from the groove using either a pair of circlip pliers or a small flat bladed electricians screwdriver. If using a screwdriver, insert it into a gap between the circlip and axle, lever one end off then the other. Retain the circlips for attaching the wheels to the stand.

Remove the wheels.



3. Remove the M8 x 35 bolt and M8 nut that joins the two leg sections and remove the lower part of the leg. Keep this nut and bolt as they are used to attach the front leg mount to the front leg.

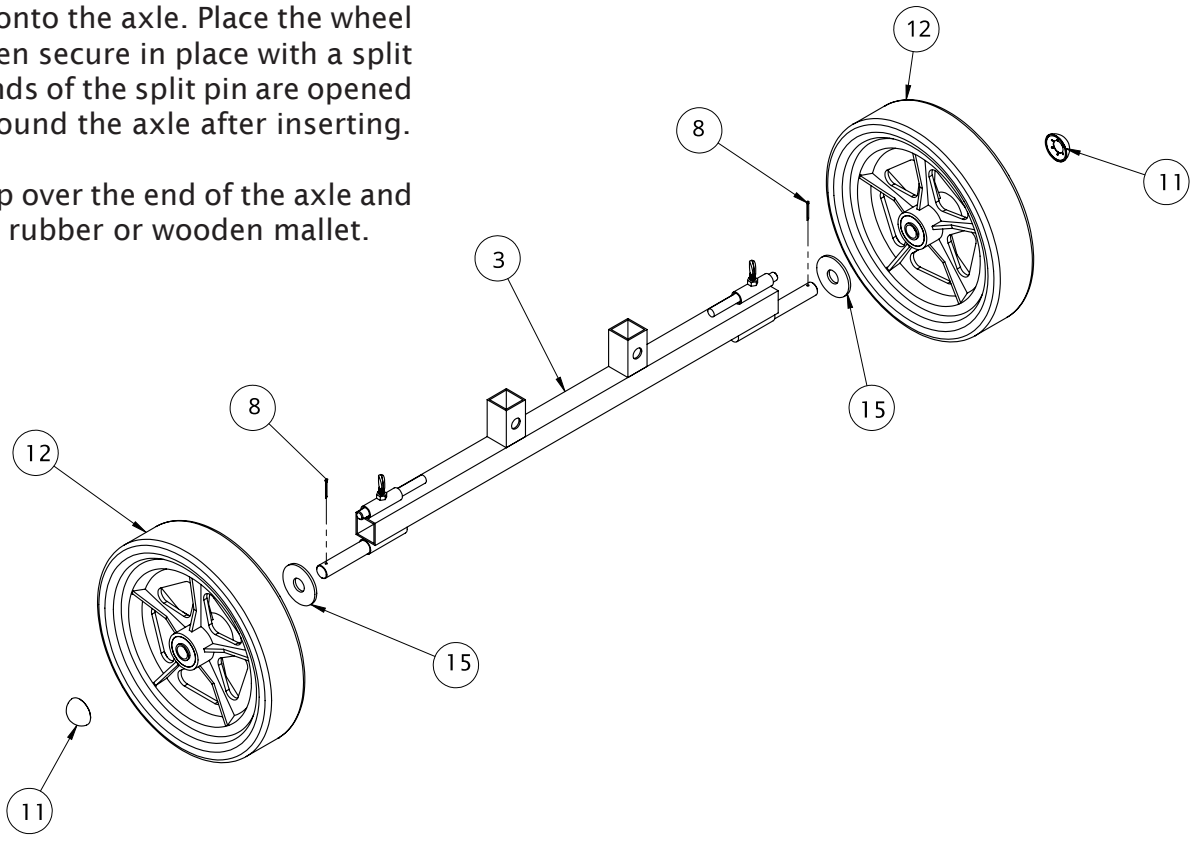
Keep the front leg in case at any time you wish to remove the splitter from the stand and use it at ground level.

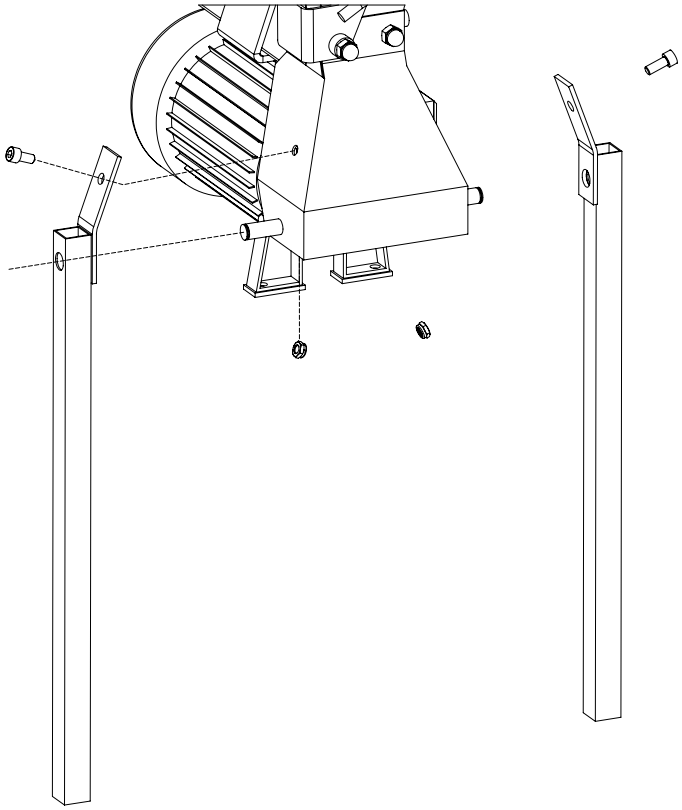
NOTE: The FM5 and FM8 may have a different front leg to that shown. In this case the M8 x 35 bolt and M8 nut will be in with the stand nuts and bolts.

4. Attach the wheels (12) to the axle bars(3).

Place a washer (15) onto the axle. Place the wheel (12) over the axle then secure in place with a split pin (8). Ensure the ends of the split pin are opened up and bent back around the axle after inserting.

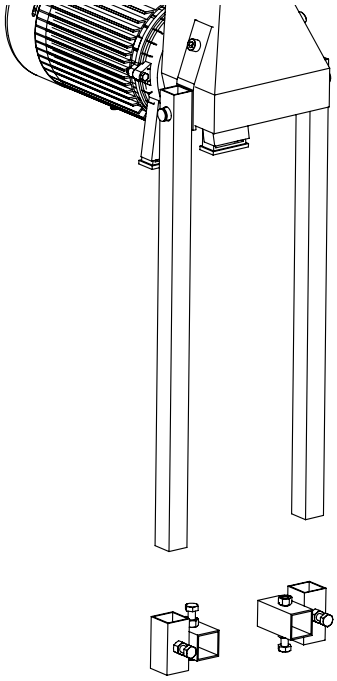
Place a dome (11) cap over the end of the axle and tap into place with a rubber or wooden mallet.

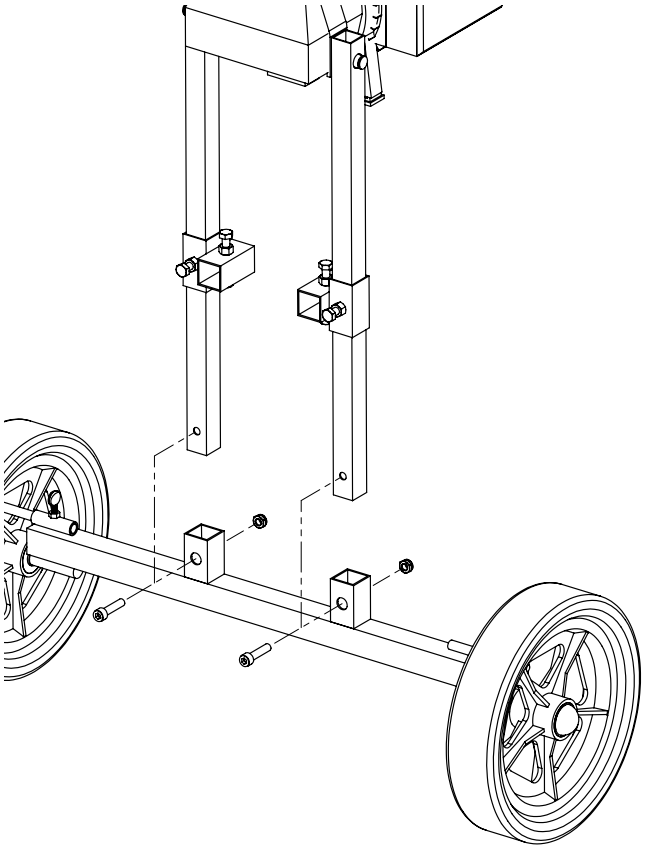




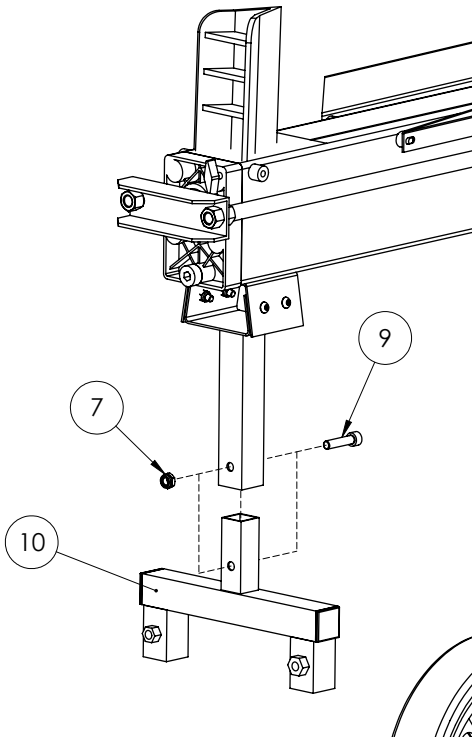
5. Attach the rear legs(1) to the wheel carriage of the log splitter. The axles of the carriage go through the large holes in the legs. Secure them to the sides of the wheel frame using the 2 M8x20 cap head bolts(6) and two M8 nuts(7). Insert the bolts through the hole in the leg flange and the hole in the side of the wheel carriage. The nuts go inside the wheel carriage.

6. Slide a leg clamp(13) onto each rear leg and secure by tightening the M8 bolt. The leg should be slid through the clamp tube with just a single nut welded on.





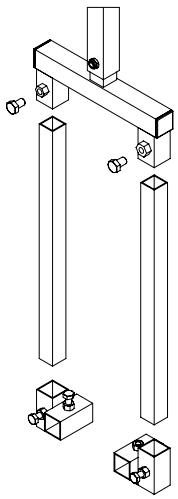
7. Attach an axle bar and wheel assembly to the rear legs using 2 of the M8 x 35 Allen bolts(9) and 2 M8 nuts (7). Note that the bolt should be inserted through the larger hole in socket.

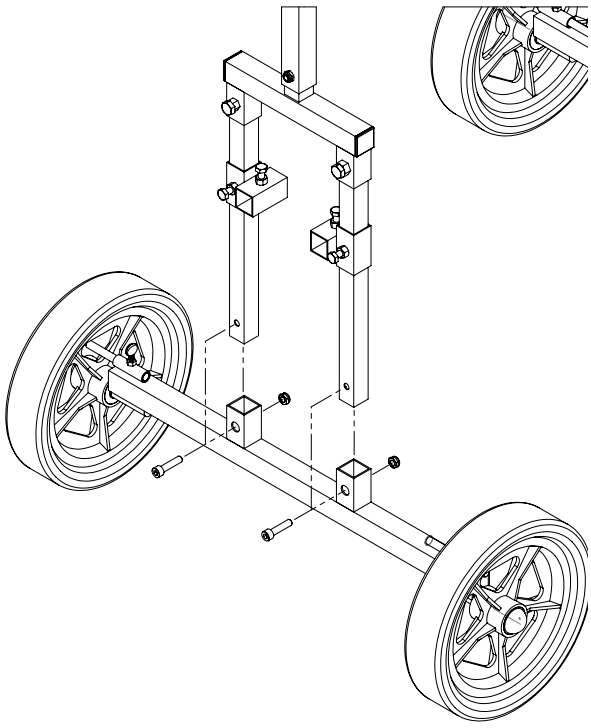


8. Attach the front leg mount (10) to the log splitter using the M8x35 Allen bolt (9) and M8 nut (7) .

9. Attach the front legs (2) to the front leg mount using 2 M10 x 20 bolts (5).

10. Slide the remaining two leg clamps onto the legs and tighten the M8 bolts to secure. As with the rear legs, the legs go through the tubes with only one nut welded to them.





11. Attach the remaining axle bar and wheel assembly to the front legs using 2 of the M8 x 35 Allen bolts(9) and 2 M8 nuts (7). Note that the bolt should be inserted through the larger hole in socket.

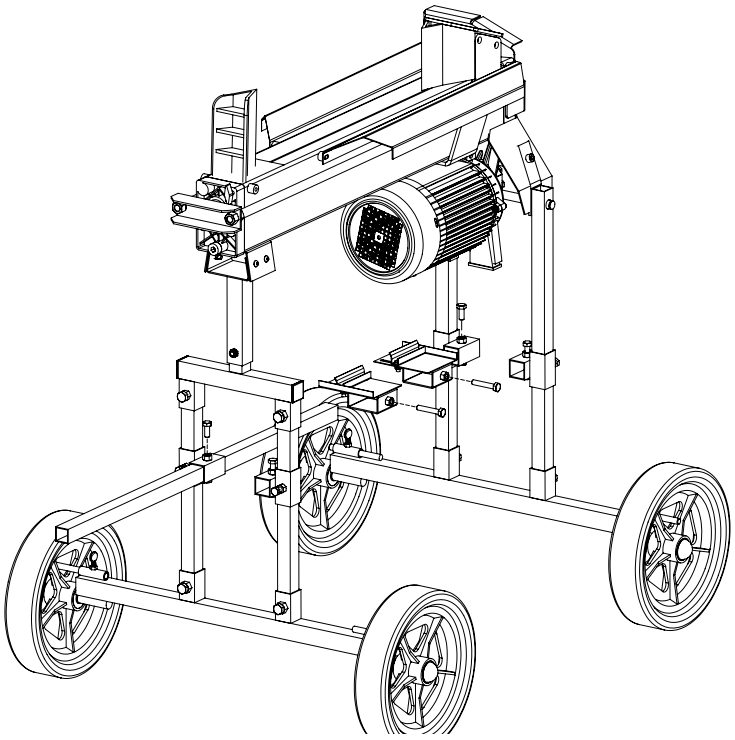
12. Adjust the four leg clamps so that they are at roughly the same height.

Insert a longitudinal support bar(4) through a leg clamp on a front leg, insert two battery clamps over the bar, then insert the longitudinal bar through the leg clamp on the rear leg. Adjust the height of the front and rear leg clamps, so that the longitudinal bar is level. Tighten the clamp bolts against the beam to secure it.

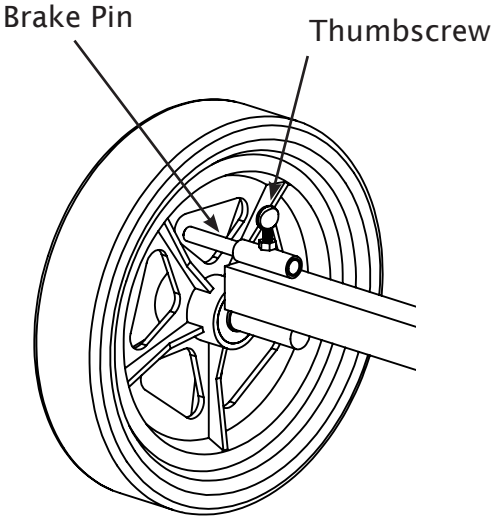
Repeat for the remaining longitudinal support bar.

Note that the stand is designed to fit the FM5, FM8 & FM10 log splitters, therefore the longitudinal beam will protrude on the FM5 & FM8. You can cut the beam to length if you wish using a standard hacksaw.

The log splitter can now be rotated to the upright position from the position in which the stand has been assembled. Depending on which splitter you have , this may require two persons.



Adjust the postion of the four battery clamps to securely hold you battery then tighten all the battery clamp bolts.



13. To stop the log splitter moving when in use. Loosen the thumbscrew and slide the brake pin until it protrudes through one of the holes in the wheel hub.

This should be done with at least one brake pin on each axle.

This product carries a limited parts warranty for 1 year from the date of purchase. Please keep your proof of purchase as this will be required for any claim.

Should this product become defective, contact the store where it was purchased and either replacement parts will be issued, it will be repaired or it will be replaced free of charge.

IMPORTANT: NO RESPONSIBILITY IS ACCEPTED FOR INCORRECT USE OF THIS PRODUCT.

THIS WARRANTY DOES NOT COVER:

1. Any part that has become inoperative due to misuse, abuse, neglect, accident, improper maintenance, or alteration; or
2. The unit, if it has not been operated and/or maintained in accordance with the owner's manual; or
3. Normal wear;
4. Routine maintenance items such as lubricants, blade sharpening;
5. Normal deterioration of the exterior finish due to use or exposure.

TRANSPORTATION CHARGES:

Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. The purchaser must pay transportation charges for any part submitted for replacement under this warranty unless such return is requested by Forest Master.

FOREST MASTER LTD
Declaration of Conformity

1. Product Model / Type:
   a. Product: Log Splitter
   b. Model: FM5D,FM5T,FM5TW,FM8D,FM8T,FM8TW,FM10D-7,FM10T-7,FM10TW-7
   c. Description: Electric hydraulic log splitter
2. Manufacturer:
   a. Name: Forest Master Ltd
   b. Address: Industry Road, Newcastle Upon Tyne, NE6 5XB
3. This declaration is issued under the sole responsibility of the product manufacturer.
4. The object of the declaration described in point 1 is in conformity with the relevant UK Statutory Instruments and their amendments:

2008 No 1597	The Supply of Machinery (Safety) Regulations 2008
2016 No 1091	The Electromagnetic Compatibility Regulations 2016

5. We hereby declare that the product described above, to which this declaration of conformity refers to, is in conformity with the essential requirements of the following standards:

Reference & Date	Title
BS EN 60204-1:2018	Safety of machinery. Electrical equipment of machines - General requirements
BS EN 609-1:2017	Agricultural and forestry machinery - Safety of log splitters - Part 1: Wedge splitters
BS EN 60335-1:2012+A15:2021	Household and similar electrical appliances. Safety – General requirements.
BS EN 62233:2008	Measurement methods for electromagnetic fields of household and similar apparatus with regard to human exposure
BS EN ISO 14982:2009	Agricultural and forestry machinery. Electromagnetic compatibility. Test methods and acceptance criteria
BS EN 55014-1:2017	Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus - Emission
BS EN 55014-2:2015	Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus - Immunity. Product family standard
BS EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

The conformity derives from assessments carried out by TUV Rheinland (China) ltd, reports CN228PEN 001 & CN228PEN 002.

6. Additional Information:
   The technical documentation for the machinery is available from the manufacturer at the above address

Signed for & on behalf of:	Forest Master Ltd
Place of issue:	Newcastle Upon Tyne
Date of Issue:	20/09/2023
Name:	Peter Johnson
Function:	Managing Director
Signature:	

FOREST MASTER LTD

Declaration of Conformity/Konformitätserklärung/Déclaration de conformité

1. Product Model / Type:
   a. Product: Log Splitter/Holzspalter/Fendeuse de bûches
   b. Model: FM5D,FM5T,FM5TW,FM8D,FM8T,FM8TW,FM10D-7,FM10T-7,FM10TW-7
   c. Description: Electric hydraulic log splitter/Elektrohydraulischer Holzspalter/Fendeuse de bûches hydraulique électrique
2. Manufacturer:
   a. Name: Forest Master Ltd
   b. Address: Industry Road, Newcastle Upon Tyne, NE6 5XB

3. This declaration is issued under the sole responsibility of the product manufacturer.
   Die Erstellung dieser Erklärung unterliegt der alleinigen Verantwortung des Produktherstellers.
   Cette déclaration est établie sous la seule responsabilité du fabricant du produit.

4. Relevant EU Directives/Relevante EU-Richtlinien/Directives européennes pertinentes :

   2006/42/EC-Annex I

5. Relevant standards/Relevante Standards/Normes pertinentes :

   EN 60204-1:2018
   EN 609-1:2017
   EN 60335-1:2012+A15:2021
   EN 62233:2008
   EN ISO 14982:2009
   EN 55014-1:2017
   EN 55014-2:2015
   EN 61000-3-3:2013

6. Additional Information:
   TUV Rheinland (China) ltd, reports CN228PEN 001 & CN228PEN 002.
   Von TÜV Rheinland (China) Ltd., Berichte CN228PEN 001 und CN228PEN 002.
   TUV Rheinland (China) ltd, rapports CN228PEN 001 & CN228PEN 002.

   The technical documentation for the machinery is available from the manufacturer.
   Die technische Dokumentation der Maschine ist beim Hersteller erhältlich.
   Die technische Dokumentation der Maschine ist beim Hersteller erhältlich.

Signed for & on behalf of:	Forest Master Ltd
Place of issue:	Newcastle Upon Tyne
Date of Issue:	20/09/23
Name:	Peter Johnson
Function:	Managing Director
Signature:	

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Manufactured under license for Forest Master Limited.

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