

user manual

Instrukcja obsługi | Руководство пользователя
Manuel de l'Utilisateur | Betriebsanweisung
Bruksanvisning | Manual del Usuario
Betjeningsvejledning | Gebruikershandleiding
Käyttöohjeet | Manual de utilizare | Bruksanvisning
Manuale d'uso | Příručka uživatele

Zachować do przyszłego użytku
Сохраните для последующего использования
A conserver pour une utilisation future
Für zukünftige Benutzung aufbewahren
Behold for senere bruk
Säilytä nämä käyttöohjeet tulevaa tarvetta marten
Opbevar manualen til fremtidig brug
Bewaren voor gebruik in de toekomst
Conservare il presente manuale a l'uso futuro
Păstrați acest manual pentru utilizare viitoare
Conservar para futuras consultas
Uchovajte pro další použití

Edger Multi-Rip

Safety, Operation, Maintenance & Parts Manual

EE20
EE25

rev. A2.02
rev. A2.02



Safety is our #1 concern! Read and understand all safety information and instructions before operating, setting up or maintaining this machine.

Form #905

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SECTION 1 SAFETY

1.1 Safety Symbols

The following symbols and signal words call your attention to instructions concerning your personal safety. Be sure to observe and follow these instructions.



DANGER! indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING! suggests a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION! refers to potentially hazardous situations which, if not avoided, may result in minor or moderate injury or damage to equipment.



IMPORTANT! indicates vital information.

NOTE: gives helpful information.



Warning stripes are placed on areas where a single decal would be insufficient. To avoid serious injury, keep out of the path of any equipment marked with warning stripes.

1.2 Safety Instructions

NOTE: ONLY safety instructions regarding personal injury are listed in this section. Caution statements regarding only equipment damage appear where applicable throughout the manual.

OBSERVE SAFETY INSTRUCTIONS



IMPORTANT! Read the entire Owner's Manual before operating the Edger. Take notice of all safety warnings throughout this manual and those posted on the machine. Keep this manual with this machine at all times, regardless of ownership.

Also read any additional manufacturer's manuals and observe any applicable safety instructions including dangers, warnings, and cautions.

Only persons who have read and understood the entire operator's manual should operate the Edger. The Edger is not intended for use by or around children.

IMPORTANT! It is always the owner's responsibility to comply with all applicable federal, state and local laws, rules and regulations regarding the ownership, operation and towing of your Wood-Mizer Edger. All Wood-Mizer owners are encouraged to become thoroughly familiar with these applicable laws and comply with them fully while using or towing the Edger.



WEAR SAFETY CLOTHING



WARNING! Secure all loose clothing and jewelry before operating the Edger. Failure to do so may result in serious injury or death.

WARNING! Always wear eye, ear, respiration, and foot protection when operating or servicing the Edger.



KEEP EDGER AND AREA AROUND EDGER CLEAN



DANGER! Maintain a clean and clear path for all necessary movement around the Edger and lumber stacking areas. Failure to do so will result in serious injury.

DISPOSE OF SAWING BY-PRODUCTS PROPERLY



IMPORTANT! Always properly dispose of all sawing by-products, including sawdust and other debris, coolant, oil, fuel, oil filters and fuel filters.

CHECK EDGER BEFORE OPERATION OR TOWING



DANGER! Make sure all guards and covers are in place and secured before operating or towing the Edger. Failure to do so may result in serious injury.



WARNING! Always shut off the engine to stop the blade whenever the Edger is not in use. Failure to do so may result in serious injury.

WARNING! Do not for any reason adjust the engine drive belts with the engine running. Doing so may result in serious injury.

WARNING! Always ensure that there is a sharp point on the anti-kickback fingers before each use of the Edger.

Be sure anti-kickback fingers are free from obstruction and are in a downward position with lever released. Failure to do so may result in serious injury.

KEEP PERSONS AWAY



DANGER! Keep all persons out of the path of moving equipment and boards when operating the Edger. Failure to do so will result in serious injury.

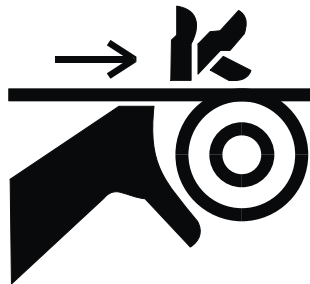
KEEP HANDS AWAY




DANGER! Engine components can become very hot during operation. Avoid contact with any part of a hot engine. Contact with hot engine components can cause serious burns. Therefore, never touch or perform service functions on a hot engine. Allow the engine to cool sufficiently before beginning any service function.


DANGER! Moving Parts Can Crush and Cut. Keep hands clear. Make sure all guards and covers are in place and secured before operating or towing. Failure to do so may result in serious injury.


DANGER! Always be aware of and take proper protective measures against rotating shafts, pulleys, fans, etc. Always stay a safe distance from rotating members and make sure that loose clothing or long hair does not engage rotating members resulting in possible injury.



 **WARNING!** Coastdown Required. Always shut off the engine and allow all moving parts to come to a complete stop before removing any guards or covers. Do NOT operate with any guards or covers removed.


WARNING! Kickback Hazard. Stay clear of area during operation. Follow all anti-kickback service and safety rules. Failure to do so may result in serious injury

 **DANGER!** Before changing the blades or performing any service to the machine, disconnect the power cord from the electric box.

 **IMPORTANT!** The blade housing and drive assembly covers are equipped with safety key switches. As soon as you open the cover, the engine will get turned off and all moving parts will stop spinning. The safety switches should always be in proper working condition.



USE PROPER PROCEDURE WHEN CONDUCTING ELECTRICAL SAFETY CHECKS AND MAINTENANCE

 **DANGER!** Make sure all electrical installation, service and/or maintenance work is performed by a qualified electrician and is in accordance with applicable electrical codes.

DANGER! Hazardous voltage inside the electric disconnect box, starter box, and at the motor can cause shock, burns, or death. Disconnect and lock out power supply before servicing! Keep all electrical component covers closed and securely fastened during

1 Safety

Safety Instructions

Edger operation.



WARNING! Consider all electrical circuits energized and dangerous.

WARNING! Never assume or take the word of another person that the power is off; check it out and lock it out.

WARNING! Do not wear rings, watches, or other jewelry while working around an open electrical circuit.



IMPORTANT! Edger is equipped with two emergency stop buttons - one at the front, the other at the rear of the machine. They are used to immediately stop the engine and/or Edger operation in hazardous situations. The emergency stop buttons should always be in proper condition.

1.3 Multirip Edger Specifications

See Table 1-1. The power option specifications of the Wood-Mizer Mutirip Edger is listed below.

| | Motor Specifications | Motor Specifications |
|----------------------------|----------------------|----------------------|
| Motor Type | E20 Electric Motor | E25 Electric Motor |
| Manufacturer | Tamel S.A., Poland | INDUKTA |
| Voltage at 380V | 380-420V | 380-420V |
| Maximum Current | 26.7 A | 32.2 A |
| Maximum RPM | 2920 RPM | 2920 RPM |
| Rated Output | 15kW (20KM) | 18.5kW (25KM) |
| Manufacturer Part # | Sg160M2BHM | SG160ML2HM |
| WM Part # | 087929 | 096622 |

TABLE 1-1

See Table 1-2. The overall dimensions of the Mutirip Edger is shown below.

| Model | Maximum Length | Maximum Width | Height | Outfeed Table | Infeed Table | Weight |
|--------|--------------------|-----------------|----------------|----------------|------------------|-----------------------|
| E20/25 | 20' 5" (6.15 m) | 70" (1.75 m) | 51" (1.3 m) | 10' (3.0 m) | 6' 5" (1.9 m) | 1880 lbs. (850 kg) |

TABLE 1-2

See Table 1-3. The noise level.^{1 2}

| | Engaged |
|---|-----------|
| Mutirip Edger Equipped With E20 Electric Motor | 84 dB (A) |

TABLE 1-3

1 The noise level measurement was taken in accordance with PN-EN ISO 3746 Standard. The noise exposure level given above concerns an 8-hour work day
 2 The measured values refer to emission levels, not necessarily to noise levels in the workplace. Although there is a relation between emission levels and exposure levels, it is not possible to determine with certainty if preventives are needed or are not needed. The factors affecting a current level of noise exposure during work are inter alia room characteristics and characteristics of other noise sources, e.g. number of machines and machining operations nearby. Also, the permissible exposure level value may vary depending on country. This information enables the machine's user to better identify hazards and a risk.

1 Safety

Multirip Edger Specifications

See Table 1-4. Other saw specifications of the Mutirip Edger are listed below.

| Saw Specifications | Width of Passage | Maximum Board Thickness | Feed Speed | Blade Size (Wood-Mizer Products) | Max blade qty. | Saw Diameter |
|--------------------|-------------------|-------------------------|--|----------------------------------|----------------|--------------|
| E20/25 Motor | 20.75" (70 cm) | 2.36" (6 cm) | max 59'/min (18m/min) ¹ | 16" x 14" x 18 tooth | 5 | 14" |

TABLE 1-4

¹ Multirips gear box has transmission ratios which allow to choose one of three feed speeds: 14.3 m/min, 16.9m/min or 18 m/min.

SECTION 2 SERVICING THE EDGER

Wood-Mizer is committed to providing you with the latest technology, best quality and strongest customer service available on the market today. We continually evaluate our customers' needs to ensure we're meeting current wood-processing demands. Your comments and suggestions are welcome.

2.1 If You Need To Order Parts

From Europe call our European Headquarters and Manufacturing Facility in Kolo, Poland at **+48-63-2626000**. From the continental U.S., call our toll-free Parts hotline at **1-800-448-7881**. Please have the vehicle identification number and your customer number ready when you call. Wood-Mizer will accept these methods of payment:

- Visa, Mastercard, or Discover
- COD
- Prepayment
- Net 15 (with approved credit)

Be aware that shipping and handling charges may apply. Handling charges are based on size and quantity of order. In most cases, items will ship on the day they are ordered. Second Day and Next Day shipping are available at additional cost.

If your edger was purchased outside of the United States, contact your distributor for replacement parts.

2.2 Customer and Edger Identification

Each Wood-Mizer edger has a 17-digit Vehicle Identification Number (VIN). In addition, when you pick up your edger, you will receive a customer number. These three numbers will help expedite our service to you. Please locate them now and write them below so you have quick, easy access to them. VIN plates can be found in two locations: 1) on the Edger's frame; 2) inside the gearbox housing.

See **Figure 2-1**. See the following figures for V.I.N. locations.

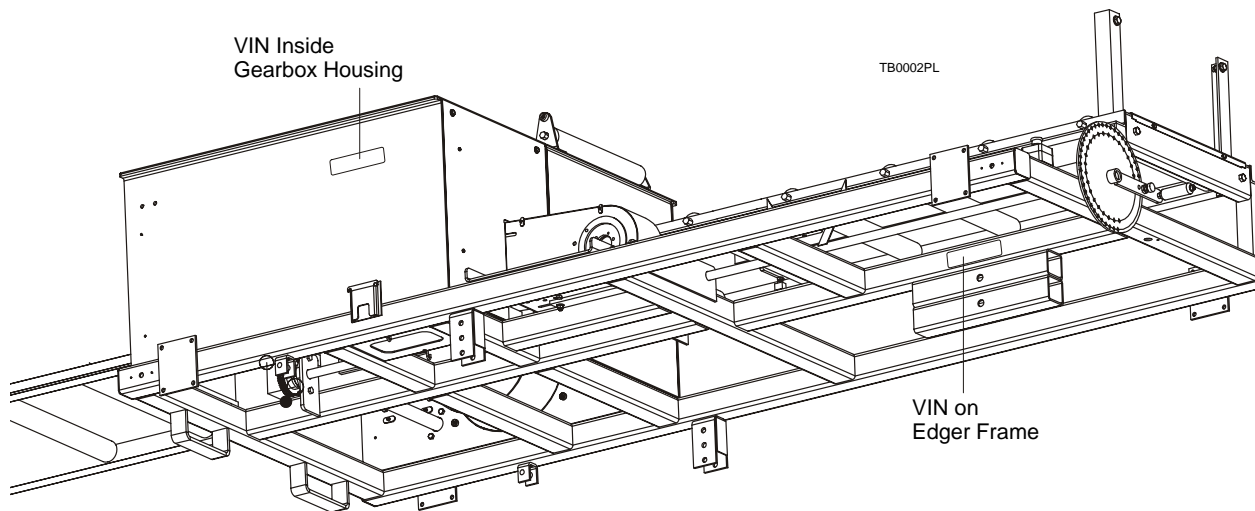


FIG. 2-1

(To be filled in by purchaser)

Edger VIN _____

Customer No. _____

See below for a description of the V.I.N.

| | | | | | | | | | | | | |
|---|---|---|----|---|---|---|---|---|----|-----|----|-----|
| 456 | A | 1 | 14 | 1 | X | S | N | A | A1 | 017 | A1 | .01 |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>Company Identification Number 456=Wood-Mizer Indiana</p> </div> <div style="width: 15%;"> <p>Weight Class; A=Under 3,000 lbs B=3,001-4,000 lbs C=4,001-5000 lbs</p> </div> <div style="width: 15%;"> <p>Product No.; 1 = Edger</p> </div> <div style="width: 15%;"> <p>Length of the Trailer; 14=14 Ft.</p> </div> <div style="width: 15%;"> <p>Number of axles on the trailer</p> </div> <div style="width: 15%;"> <p>Check Digit Add all the numbers and divide by 11</p> </div> <div style="width: 15%;"> <p>Year of Manufacture; X=1999, Y=2000, Z=2001</p> </div> <div style="width: 15%;"> <p>State of Manufacture N=Indiana, P=Poland</p> </div> <div style="width: 15%;"> <p>Month of Manufacture A=January, B=February, C=March, etc...</p> </div> <div style="width: 15%;"> <p>Revision Level</p> </div> <div style="width: 15%;"> <p>Sequence Number Ranging from 000-999</p> </div> <div style="width: 15%;"> <p>End of 17-Digit VIN</p> </div> <div style="width: 15%;"> <p>Revision Level (Repeated)</p> </div> <div style="width: 15%;"> <p>Two-Digit Minor Revision Level</p> </div> </div> | | | | | | | | | | | | |

V.I.N. DESCRIPTION.

2 Servicing The Edger *If You Need Service*

2.3 If You Need Service

From Europe call our European Headquarters and Manufacturing Facility in Kolo, Poland at **+48-63-2626000**. From the continental U.S., call us toll-free at **1-800-525-8100**. Ask to speak with a Customer Service Representative. Please have your vehicle identification number and your customer number ready when you call. The Service Representative can help you with questions about the operation and maintenance of your edger. He also can schedule you for a service call.

Office Hours: All times are Eastern Standard Time. Please remember that Indiana does not go on Daylight Savings Time in the summer.

| Country | Monday - Friday | Saturday | Sunday |
|----------------|------------------------|------------------|---------------|
| U.S., Indiana | 8 a.m. to 5 p.m. | 8 a.m. to 4 p.m. | Closed |
| Poland | 8 a.m. to 4:30 p.m. | 8 a.m. to 1 p.m. | Closed |

If your edger was purchased outside the United States, contact the distributor for service.

SECTION 3 EDGER SETUP

3.1 Pre-Operation Check

Prior to operating the Edger; always perform these basic checks:

1. Make sure the Edger is level. Secure the legs to the surface.



CAUTION! Always be sure the machine is level prior to operating. Failure to do so can and will affect machine operation and wear life.

2. Make sure the outfeed table is level with the rest of the Edger. Place blocks under the table if necessary.
3. Make sure the engine drive belt is tensioned properly. [See Section 4.2](#) for more information.



WARNING! Do not for any reason adjust the engine drive belts with the engine running. Doing so may result in serious injury.

4. Be sure the anti-kickback fingers are in proper working condition.

See Figure 3-1.



WARNING! Always ensure that there is a sharp point on the anti-kickback fingers before each use of the Edger.

Be sure anti-kickback fingers are free from obstruction and are in a downward position with lever released. Failure to

do so may result in serious injury.

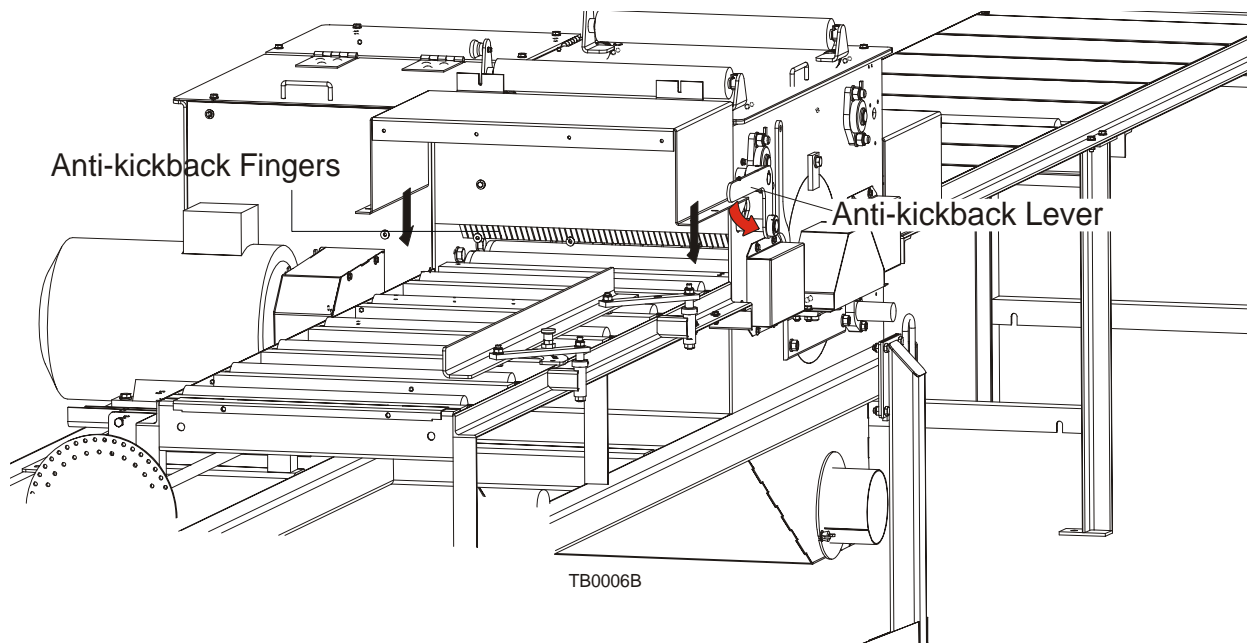


FIG. 3-1

5. Be sure all guards and covers are in place and secured.



DANGER! Make sure all guards and covers are in place and secured before operating or towing the Edger. Failure to do so may result in serious injury.

6. Also be aware that the blades are spinning whenever the engine is ON. You should always turn off the engine to stop the blade whenever the Edger is not in use and ensure that all parts have stopped moving before removing any covers or guards.



WARNING! Coastdown Required. Always shut off the engine and allow all moving parts to come to a complete stop before removing any guards or covers. Do NOT operate with any guards or covers removed.

WARNING! Always shut off the engine to stop the blade whenever the Edger is not in use. Failure to do so may result in serious injury.

See Figure 3-2. An Emergency Stop is located at the front of the Edger, to the left of the Setworks dial. Press the Emergency Stop to shut down the engine. Before operating the

Edger again, reset the switch by turning the button to the right and releasing.

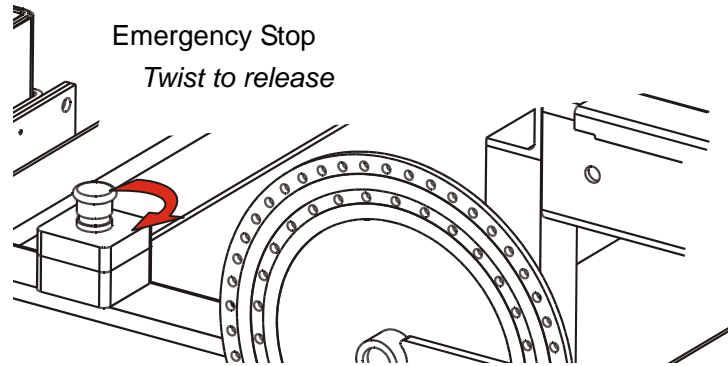


FIG. 3-2

3.2 Blade Installation

The main shaft's strength and motor horsepower allows you to use maximally five blades with your Multi-Rip Edger. Using more blades may make the cutting parameters worse and cause the shaft to crack. The standard Wood-Mizer Edger is equipped with two blades. The additional three blades in Multi-Rip Edger are installed on the provided bushing with spacers.

The blades should be installed on the main shaft in the following order:

- movable blade arbor,
- fixed blade arbor,
- bushing with three blades.

The table below will help you choose suitable thickness and number of spacers for various numbers of blades and distances between them. Use the toolmaker's table to mount the blades on the bushing and then install the bushing assembly to the Edger. You can also mount two bushing assemblies on the shaft, however no more than five blades. To do this, you have to order an additional bushing with spacers.

| Ref. | Board Width | Maximum number of blades | Thickness and number of spacers behind each blade except the last one G [mm] | | | | Thickness and number of spacers filling the spacing behind the last blade (up to the nut) | | | | | |
|------|-------------|--------------------------|--|-----|------|------|---|-----------|-----------|-----------|------------|------------|
| | | | | | | | A - 4,2mm | B - 6,4mm | C - 7,8mm | D - 5,0mm | E - 10,0mm | F - 20,0mm |
| | | | G=26,1 | G=5 | G=10 | G=20 | Number of spacers | | | | | |
| 1 | 25 | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| 2 | 25 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 3 | 30 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 35 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 5 | 40 | 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 6 | 25 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 |
| 7 | 30 | 3 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| 8 | 35 | 3 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 3 |
| 9 | 40 | 3 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| 10 | 45 | 3 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| 11 | 50 | 3 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| 12 | 55 | 3 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 13 | 60 | 3 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| 14 | 65 | 3 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| 15 | 25 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 |
| 16 | 30 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| 17 | 35 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 5 |
| 18 | 40 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 19 | 45 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 4 |
| 20 | 50 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 4 |
| 21 | 55 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 4 |
| 22 | 60 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 23 | 65 | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 3 |
| 24 | 70 | 2 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 |
| 25 | 75 | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 3 |
| 26 | 80 | 2 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| 27 | 85 | 2 | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 2 |
| 28 | 90 | 2 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 2 |
| 29 | 95 | 2 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 2 |
| 30 | 100 | 2 | 1 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 2 |
| 31 | 105 | 2 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 1 | 1 |
| 32 | 110 | 2 | 1 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 1 |
| 33 | 115 | 2 | 1 | 0 | 1 | 4 | 0 | 0 | 0 | 1 | 0 | 1 |
| 34 | 120 | 2 | 1 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 1 |
| 35 | 125 | 2 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 1 | 0 |
| 36 | 130 | 2 | 1 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 0 |
| 37 | 135 | 2 | 1 | 0 | 1 | 5 | 0 | 0 | 0 | 1 | 0 | 0 |
| 38 | 140 | 2 | 1 | 1 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |

RYS. 3-2

NOTE: The minimum distance between two blades can be 25mm. The maximum dis-

tance between the blades can be as follows:

- for 2 blades 140mm
- for 3 blades 65mm
- for 4 blades 40mm
- for 5 blades 25mm

3.3 Edging Lumber



DANGER! Make sure all guards and covers are in place and secured before operating or towing the Edger. Failure to do so may result in serious injury.

DANGER! Keep all persons out of the path of moving equipment and boards when operating the Edger or loading boards. Failure to do so will result in serious injury.

DANGER! Moving Parts Can Crush and Cut. Keep hands clear. Make sure all guards and covers are in place and secured before operating or towing. Failure to do so may result in serious injury.

DANGER! Maintain a clean and clear path for all necessary movement around the Edger and lumber stacking areas. Failure to do so will result in serious injury.



WARNING! Always shut off the engine to stop the blade whenever the Edger is not in use. Failure to do so may result in serious injury.

WARNING! Always wear eye, ear, respiration, and foot protection when operating the Edger. Failure to do so may result in serious injury.

WARNING! Secure all loose clothing and jewelry before operating the Edger. Failure to do so may result in serious injury or death.

After performing the pre-operation check, you are ready to begin edging lumber.

1. Set the networks dial indicator for the desired size of boards to be cut.

See Figure 3-3. The networks dial adjusts the movable saw blade closer to or farther away from the fixed saw blade, thus setting the width of the cut to be made. To set, **pull the locking lever**, turn the networks handle as necessary, and release the pin into the appropriate labeled hole, from 3" to 15" (or 8 to 38 cm).

For example, setting the dial at 3" (or 80 mm on the metric scale) will position the movable blade 3" (or 80 mm on the metric scale) from the fixed blade. Resulting cuts will be 3" (or 80 mm on the metric scale) in width.

NOTE: To change from using U.S. measurements to metric measurements, simply remove the locking pin from the handle's outer hole and reinstall to the handle's inner hole. After the locking bolt is removed from metric measurements to U.S. measurements, it should be adjusted. To adjust the locking bolt, unbolt and secure the nut so the locking bolt fits to the U.S. measurements.

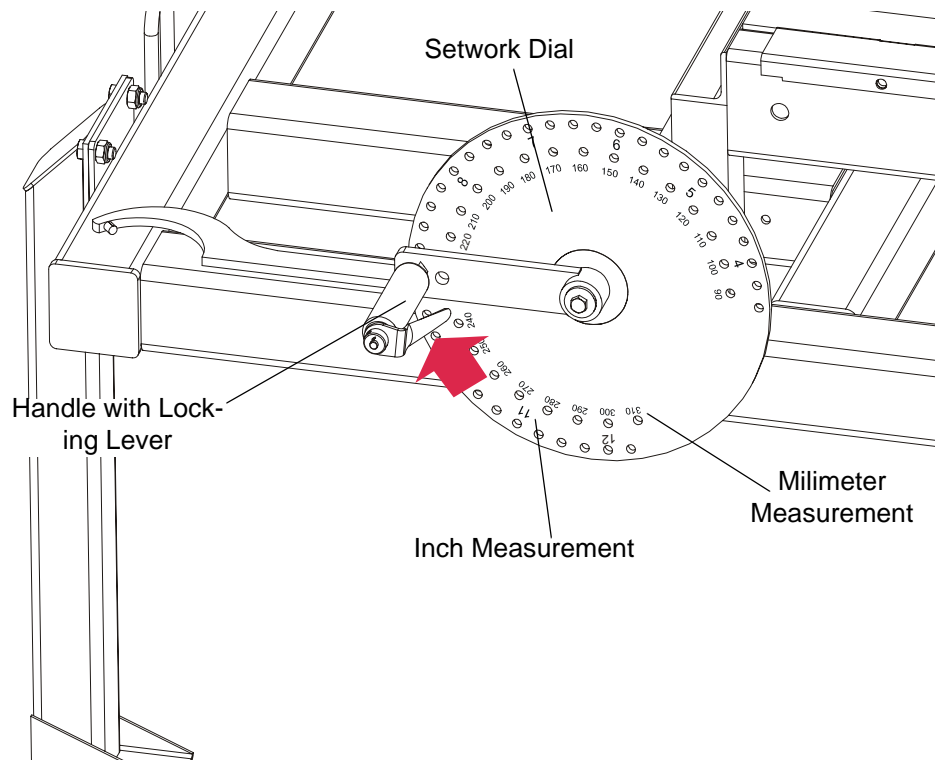


FIG. 3-3

3 Edger Setup

Edging Lumber

2. Set the front fence.

See **Figure 3-4**. The board guide fence allows guide the board parallel. Release the locking bolt to adjust the board guide fence.

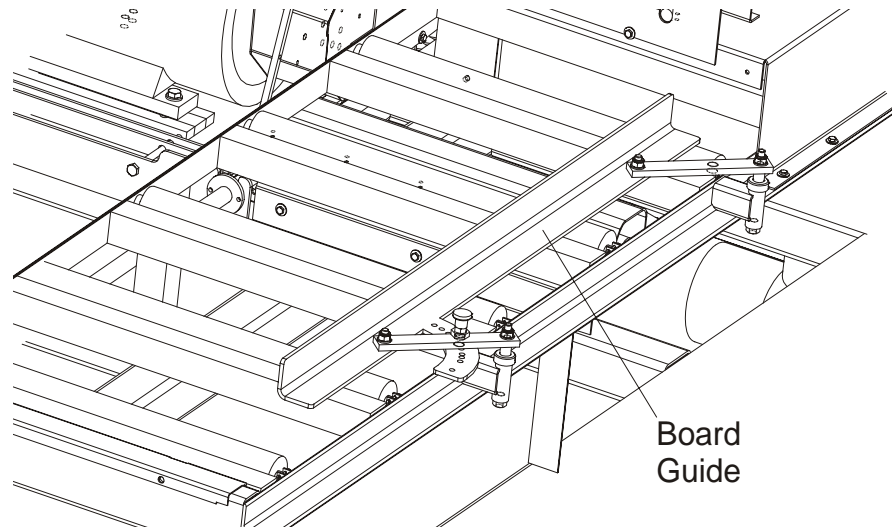



FIG. 3-4

3. Position a board on top of the infeed rollers.
4. Start the motor. If you have an electric Edger, see the appropriate manual supplied with your specific motor configuration for detailed operating instructions.

 **IMPORTANT!** If at any time you need to immediately stop the engine and/or Edger operation, press the Emergency Stop button located at the front or at the rear of the Edger.

See **Figure 3-5**.

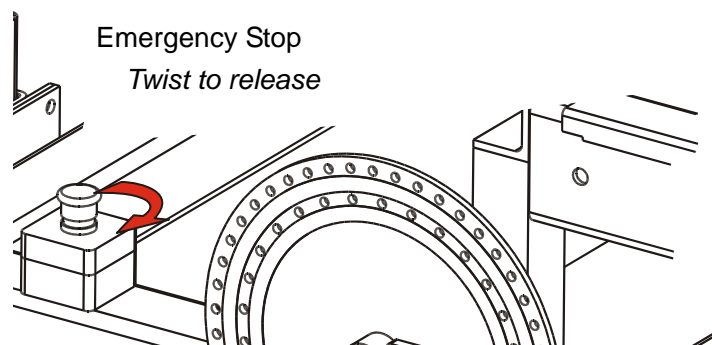


FIG. 3-5

5. Gently push the board through the anti-kickback fingers into the blade until the board begins to feed itself.
6. If the board needs to be edged again, lift the board from the outfeed table. Use the return feed rollers on top of the Edger unit to return the board to the infeed operator.

SECTION 4 MAINTENANCE

Refer to the engine manufacturer's manual for maintenance intervals and procedures regarding the power supply unless otherwise instructed in this manual. Follow the manufacturer's recommendations for dusty conditions.



IMPORTANT! This manual only provides information about additional procedures or procedures to be performed at different time intervals than found in the manufacturer's manuals. Refer to the manufacturer's manual for complete maintenance instructions.

4.1 Changing the Blades

1. Replace the blades as necessary. Dull blades will cause the engine to work harder and will result in decreased cut quality and accuracy. Blade life will vary depending on maintenance of machine, operator, species of wood being sawn, and condition of wood being sawn.



DANGER! Before changing the saws, make sure the arbor has come to a complete stop and the motor is shut off completely. Failing to do so can cause serious injury.



WARNING! Always wear eye, glove and foot protection when handling saw blades.

2. To access the blades, unbolt and open the blade housing cover.
3. With the shaft secured, use the provided spanner wrenches to loosen the locking nuts on the blades.

4. Remove the cone/bearing assembly from the Edger. To remove, first unbolt and remove the blade shaft bearing guard. Loosen the cone retaining bolt. Remove the three mounting nuts on the bearing plate and pry the plate from the Edger.

See Figure 4-1.

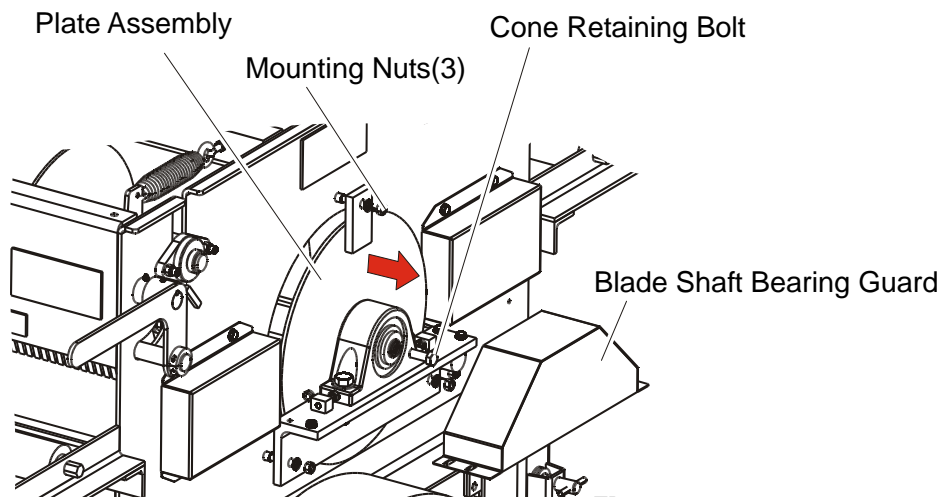


FIG. 4-1

5. Next, remove the blades from the shaft. Remove the fixed blade locking nut and the fixed blade. Loosen the two allen screws on the fixed blade arbor and remove the arbor from the shaft.

6. Unscrew and remove the adjustable blade locking nut. Slide the movable blade from the shaft.

See Figure 4-2.

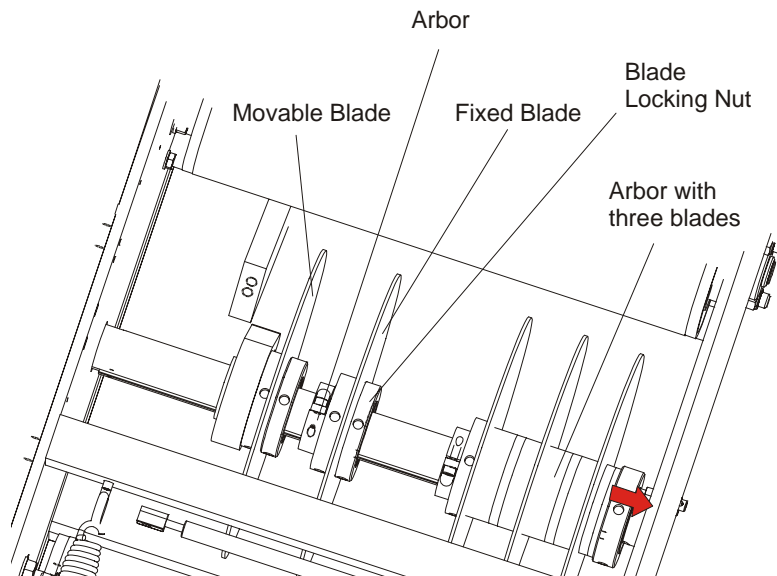


FIG. 4-2

7. Apply an anti-seize lubricant to the face of the arbor and to the face and threads of the blade locking nut.
8. Install a new or resharpened blade to shaft and position it next to the movable blade arbor. Loosely reinstall the adjustable blade locking nut.
9. Reinstall the fixed blade arbor to the shaft. Install a new or resharpened blade, and loosely reinstall the fixed blade locking nut.
10. Reinstall the cone/bearing assembly and secure in place with the existing mounting nuts.
11. Reinstall the cone retaining bolt and the blade shaft bearing guard.
12. With the shaft secured, use the spanner wrenches to tighten the blade locking nuts all the way.
13. Align the blades. [See Section 4.8.](#)
14. During alignment, the blade arbor allen screws will be tightened to secure the blade assemblies in place.
15. After alignment, be sure to close and re-secure the blade housing cover.

4.2 Tensioning the Belts



DANGER! Always shut off the engine and allow all moving parts to come to a complete stop before removing any guards or covers. Failure to do so will result in serious injury.



WARNING! Do not for any reason adjust the engine drive belts with the engine running. Doing so may result in serious injury.



CAUTION! Never apply belt dressing as this will damage the belt and cause early failure.

1. Check the drive belt for wear every 8 hours of operation and more frequently during the first 24-48 hours of operation. Tension or replace as necessary. Tension should be 9/16" deflection with 9 lbs of force for new belts or 9/16" deflection with 6 lbs of force for used belts.

See Figure 4-3. To tension the drive belt:

- Unbolt and open the gearbox housing cover.
- Locate the mounting bolts which secure the drive belt guard to the gearbox housing. Loosen these so that the drive belt housing is free to slide as necessary.
- Loosen the four engine mounting bolts.
- Use the two adjustment bolts as shown to move the engine mount towards the front of the Edger until the belt is properly tensioned. Be sure to adjust the bolts evenly so the motor remains in alignment.



CAUTION! Do not over tighten the drive belt as it can cause premature belt and/or bearing failure.

CAUTION! Do not under-tighten the drive belt as it can cause one or all of the following damages: slippage of the belt on the drive pulley, binding or fetching up of the saws while in the cut, damage or bending of saws

- Retighten the engine mounting bolts. Retighten the belt guard mounting bolts.

2. Check the gearbox drive belt for wear every 8 hours of operation. Belt tension is adjusted automatically.
3. The multigroove pulleys on the gearbox and drive shaft allow choosing the board feed speed between values: 15, 16 and 17m/min¹.

See Figure 4-4. To change the board feed speed:

- With the gearbox housing cover still open, locate the gearbox belt tensioner. Loosen the belt by pushing down the automatic tensioner handle and securing it with the locking pawl.

1. The optional belts and pulleys assembly, mounted on Edger reducer, enables getting lower feed rates, which are: 11.1; 13.2 and 15 m/min. [See Section 6.18.](#)

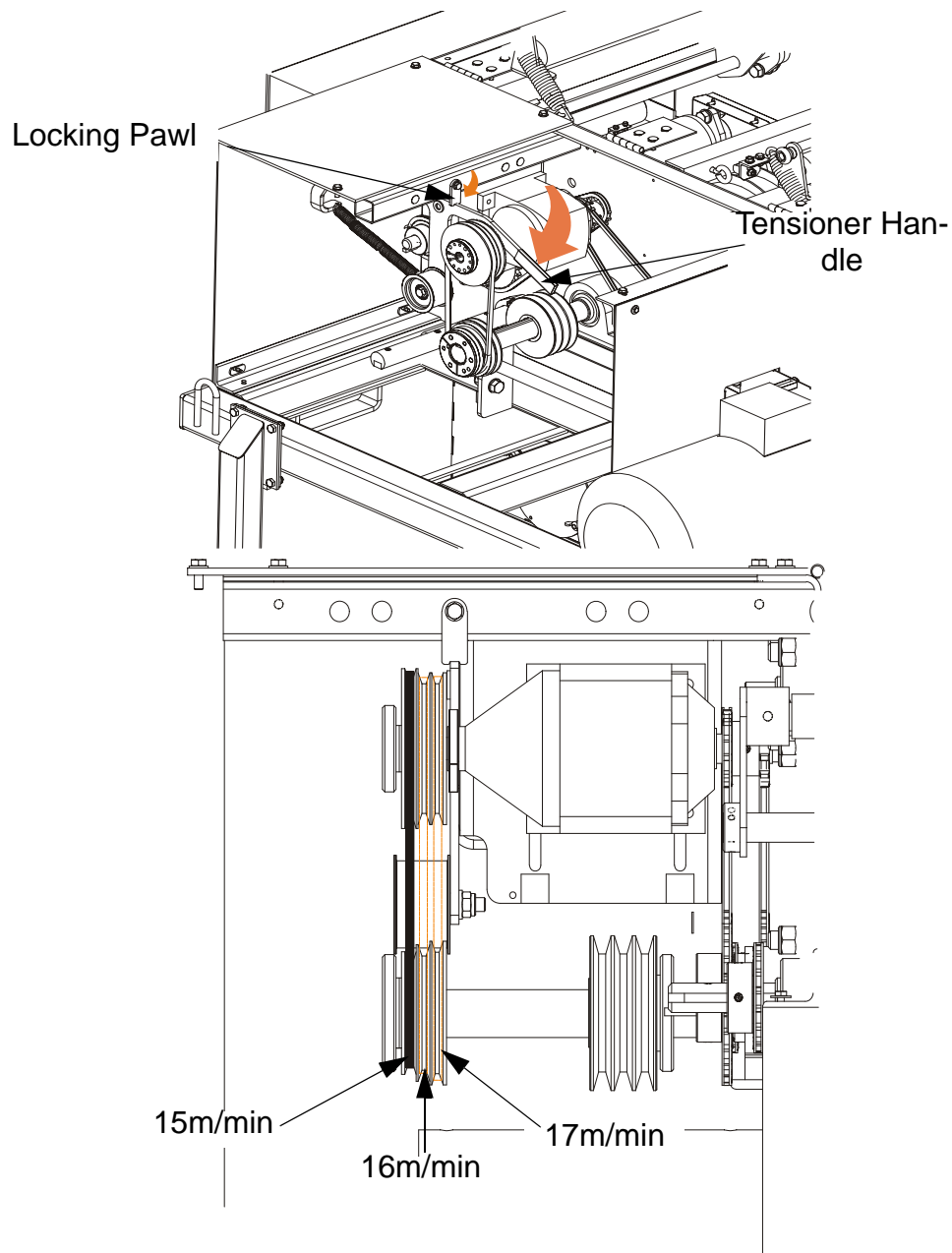


FIG. 4-4

- Place the drive belt in the proper grooves of the pulleys to achieve the required feed speed.
 - Release the automatic tensioner handle.
4. Close the gearbox housing cover and use the existing bolts to secure.

4.3 Tensioning the Chains

40

Check the drive chains for tension every 40 hours of operation and tension as necessary. The chains should have approximately 1/2" of slack. **NOTE:** The smaller idler chains have no adjustment.

See Figure 4-5. To tension the drive chains, unbolt and open the gearbox housing cover.

- Loosen the four gearbox mounting bolts.
- Use the adjustment bolts underneath the gearbox to raise the gearbox until the chains are tensioned as needed. Be sure to adjust the bolts evenly.
- Retighten the gearbox mounting bolts and close and secure the gearbox housing cover.

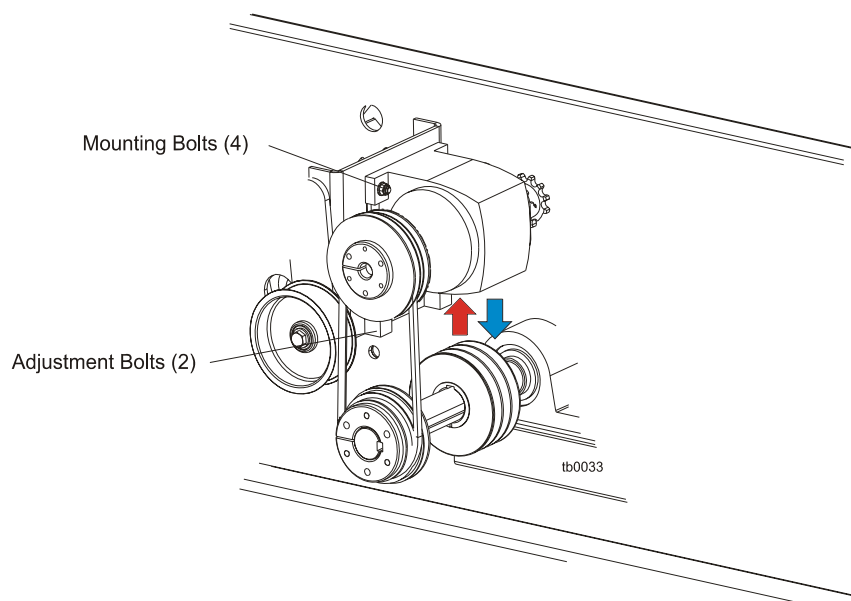




FIG. 4-5

4.4 Checking the Rollers

-  1. Check the feed rollers every 8 hours of operation. Remove any dirt or debris from the rollers. Make sure they spin freely, without much play. Replace the spring-loaded feed rollers as needed.
-  2. Check the press rollers every 8 hours of operation. Clean any debris or sap buildup from the rollers with a wire brush. Replace the press roller bearings if there is any play in the rollers.

4.5 Lubrication

1. Clean any debris from the blade drive shaft and every 8 hours of operation. Use a soft cloth to apply a dry graphite daily to ensure resistance-free motion and to prevent surface corrosion.

Also, clean debris from the rack and pinion every 8 hours of operation. Lubricate with dry graphite.

2. Lubricate the blade shaft bearings every 200 hours of operation with one to two pumps of lithium-based grease such as Shell Alvania No. 3. Do not overgrease.
3. Lubricate the anti-kickback shaft pivots every 200 hours of operation with a high-quality lithium-based grease such as Shell Alvania No. 3.
4. Lubricate the press roller bearings every 200 hours of operation with a high-quality lithium-based grease such as Shell Alvania No. 3.
5. Lubricate the Setworks dial every 200 hours of operation with a high-quality lithium-based grease such as Shell Alvania No. 3.
6. Apply anti-seize lubricant to the surfaces and threads of the blade arbors and locking nuts every blade change ([See Section 4.1](#)).

4.6 Maintaining and Sharpening Anti-Kickback Fingers

This machine has the potential for kick-backs. Kick-backs can cause the board to be suddenly and uncontrollably hurled towards the operator. Such action can result in severe injury or death.

If you are working with frozen boards or with boards that have protruding knots, the chance of kickbacks is increased.

The infeed opening of the Edger is equipped with anti-kickback fingers to help prevent kickback from occurring. To maintain the safety of your Edger, periodically inspect the machine to ensure all anti-kickback fingers are intact and undamaged and have a sharp point. Missing or damaged parts can affect the safety of the machine operator or bystanders and should be replaced immediately. Dulled parts should be re-ground with a hand grinder or replaced.



DANGER! Always ensure that there is a sharp point on the anti-kickback fingers before each use of the Edger.

Be sure anti-kickback fingers are free from obstruction and are in a downward position with lever released. Failure to do so may result in serious injury.

4.7 Alignment



WARNING! Before performing service near moving parts such as blades, pulleys, motors, belts and chains, first turn the engine key switch to the OFF (#0) position and remove the key. If the key is turned on and moving parts activated, serious injury may result.

WARNING! Coastdown Required. Always shut off the engine and allow all moving parts to come to a complete stop before removing any guards or covers. Do NOT operate with any guards or covers.

1. **Position of fixed blade** - the position of the fixed blade is adjusted by loosening the blade clamps just sufficiently to be able to slide the blade on the shaft.
2. Place a string, or straight edge along the inside edge of the blade and move the blade so that the string or straight edge is aligned with the 0 mark on the scale. [See Figure 4-6.](#)
3. Tighten the blade clamps and check the alignment again.

See Figure 4-6.

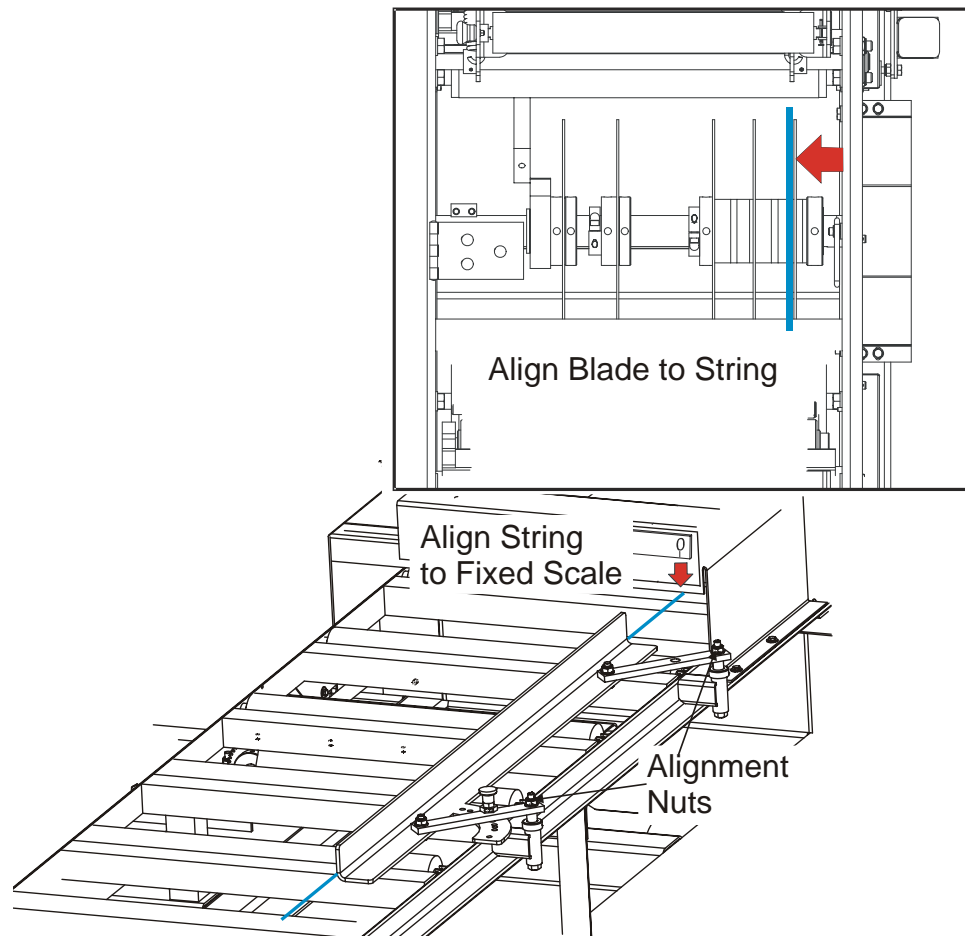
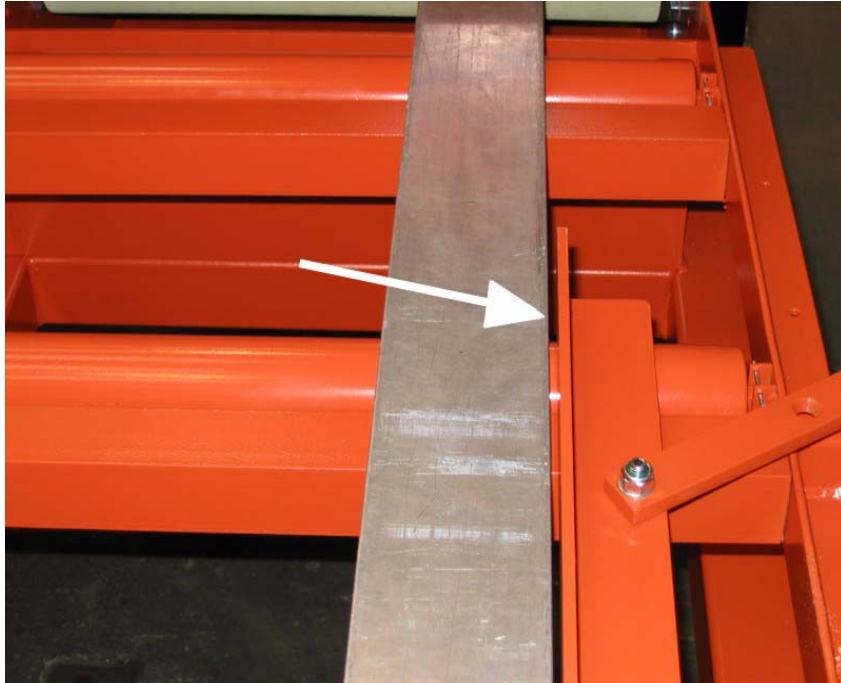


FIG 4-6

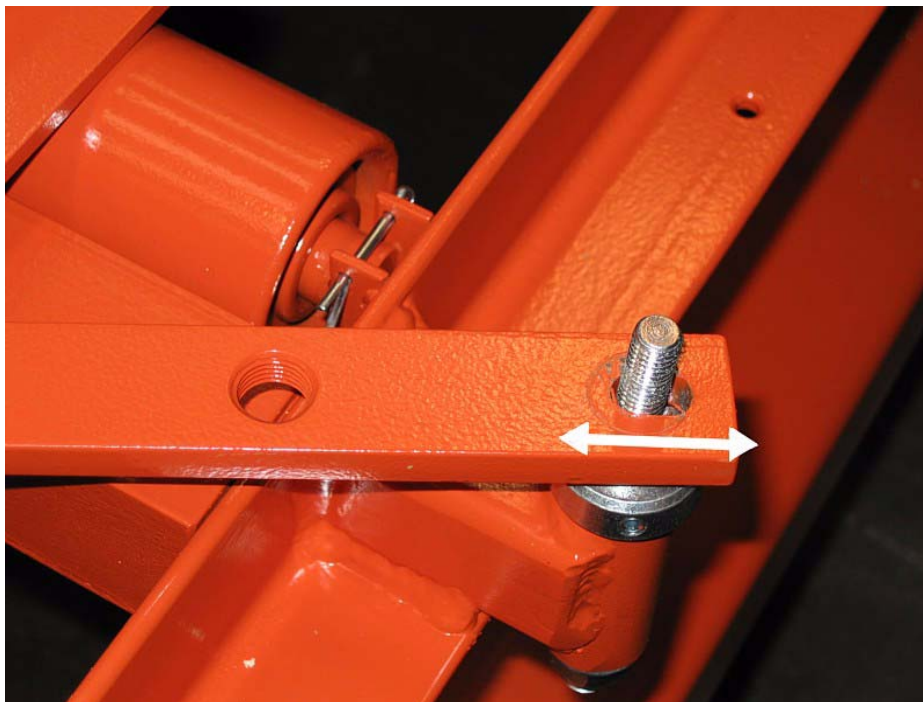
4. **Fence Alignment** - having fixed the position of the fixed blade, extend the string or straight edge so that it meets the fence. [See Figure 4-7.](#)

See Figure 4-7.



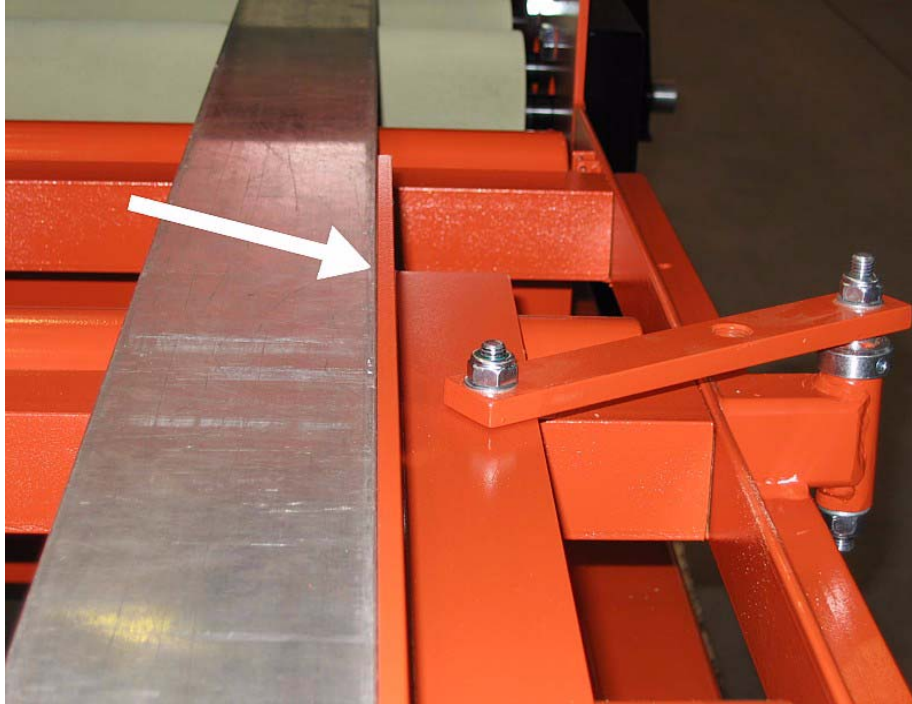
5. If the board guide fence is not parallel to the string or to straight edge, loosen the alignment nuts. Elongated holes allows adjusting the board guide fence. [See Figure 4-8.](#)

See Figure 4-8.



6. Slide the board guide fence to the adjustment strip. If the board guide fence is parallel to the blade, tighten alignment nuts. [See Figure 4-9.](#)

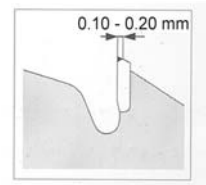
See Figure 4-9.



7. To position the adjustable blade, set the setworks dial at 3" (80mm). Measure from the inside of the fixed blade to the inside of the movable blade. If necessary, loosen the movable blade arm and slide the blade assembly on the shaft until the blades are 3" (80mm) apart. Retighten the blade arm and tighten the arbor allen screws to secure in place.

4.8 Blade sharpening

The blade teeth should be sharpened as soon as their dullness, measured as shown in the figure on the right, is .10 -.20 mm.

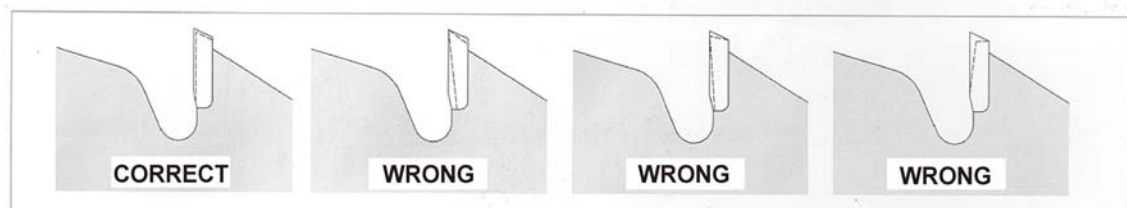
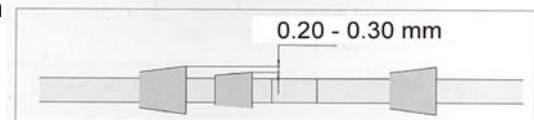


Use diamond grinding wheels for sharpening the blades. Apply intensive cooling during sharpening to prevent overheating and structural changes in the cemented carbide tips.

Blades with hard tips (GLOTECH series) must be intensively cooled with water during sharpening. Failure to do so will result in cracks in the tips.

In Multix type blades the carbide tips should be .4 - .6 mm wider than the carbides in the wiper slots. (See the figure below.) If this difference is not kept, it will result in disk overheating and – in extreme case – in cracks in the blade gullets. The carbide plates in the wiper slots remove sawdust and splinters from the kerf. They also cause sawdust to be blown away.

When sharpening, maintain the proper tooth geometry as indicated in the figure below.



4.9 Using the blades

The surfaces of spacers should be clean and flat against one another. The blade should not rotate on the shaft during sharpening as it will lead to its damage.

It is not recommended to change the blade mounting hole. Unsuitable hole modification will result in decreased breaking strength, increased radial run-out and wavy cuts. Besides, it may result in blade burning, cracks in the gullets and finally in blade breakage.

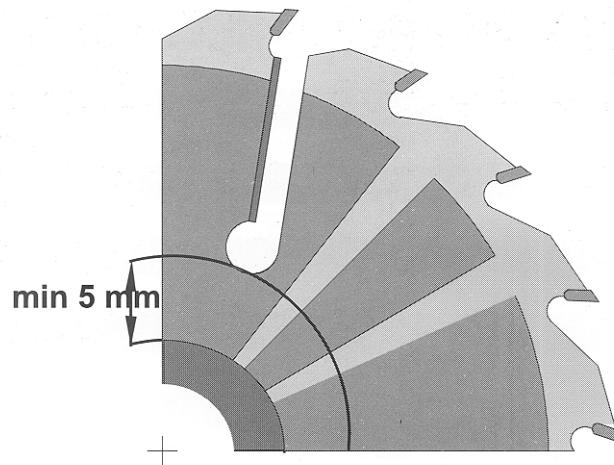
Do not set teeth with cemented carbide tips!

Do not make any modifications to the blade teeth!

Do not operate the machine if any of the blades is dull. Using dull blades causes stronger cutting resistance, decreased cut accuracy and may result in blade burning and even cracks in the gullets and the wiper slots.

Do not exceed the maximum blade rotation speed recommended for a given type of material!

When using Multix type blades, keep at least 5 mm spacing between the bottom of the wiper slot and the spacer outer diameter.



To remove any sawdust buildup from the blade disk, preferably use a solution of hot water and soda or another cleaner.

Any blades which are not used for a longer period of time should be properly maintained.

The blades should be used in accordance with safety rules and their application and with machines in good operating condition and equipped with suitable safety guards.

SECTION 5 TROUBLESHOOTING

5.1 Boards Are Not Self-Feeding



DANGER! Always shut off the engine and allow all moving parts to come to a complete stop before removing any guards or covers.

1. If boards are not self-feeding, increase the tension on the top press rollers.
2. To do this, unbolt and open the blade housing cover.
3. Locate the four horizontal springs which provide tension to the press rollers.
4. Tighten the tension spring eyebolts until sufficient tension is placed on the top press rollers. Always use the lowest amount of tension that still enables boards to feed properly. Too much tension on soft wood can mar the wood.



CAUTION! Do not overtension as this can affect wear life and can cause the rollers to mar the surface of some of the softer woods.

5. Close and secure the blade housing cover.

5.2 Jammed Boards



DANGER! Always shut off the engine and allow all moving parts to come to a complete stop before removing any guards or covers.

1. If a board becomes jammed, temporarily remove press roller tension to release the board.
2. To do this, unbolt and open the blade housing cover.
3. Loosen the nuts on the tension spring eyebolts until enough tension has been released to remove the jammed board.

You may need to use cant hooks to lift the press rollers enough to remove the board. It may also be necessary to lift the anti-kickback fingers by pushing the kickback lever down.

4. Retighten the nuts until the top press rollers are properly tensioned. Always use the lowest amount of tension that still enables boards to feed properly. Too much tension on soft wood can mar the wood.



CAUTION! Do not overtension as this can affect wear life and can cause the rollers to mar the surface of some of the softer woods.

5. Close and secure the blade housing cover.

SECTION 6 PARTS

6.1 How To Use The Parts List

- Go to the appropriate section and locate the part in the illustration.
- Use the number pointing to the part to locate the correct part number and description in the table.
- Parts shown indented under another part are included with that part.
- Parts marked with a diamond (◆) are only available in the assembly listed above the part.

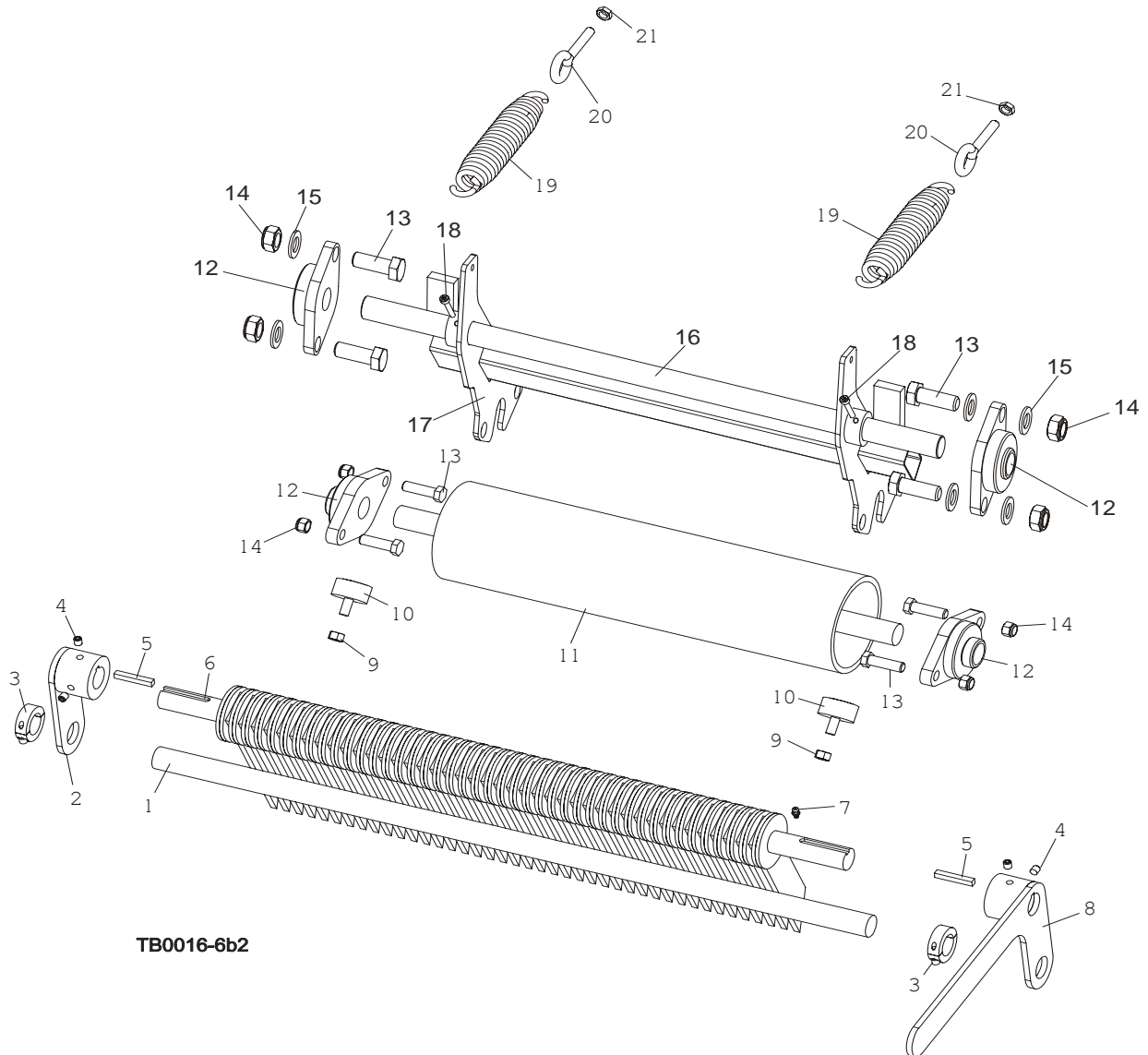
See the sample table below. Sample Part #A01111 includes part F02222-2 and subassembly A03333. Subassembly A03333 includes part S04444-4 and subassembly K05555. The diamond (◆) indicates that S04444-4 is not available except in subassembly A03333. Subassembly K05555 includes parts M06666 and F07777-77. The diamond (◆) indicates M06666 is not available except in subassembly K05555.

| 6.2 Sample Assembly | | | | |
|----------------------------|--|-----------|------|---|
| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. | |
| | SAMPLE ASSEMBLY, COMPLETE (Includes All Indented Parts Below) | A01111 | 1 | |
| 1 | Sample Part | F02222-22 | 1 | |
| 2 | Sample Subassembly (Includes All Indented Parts Below) | A03333 | 1 | |
| | Sample Part (Indicates Part Is Only Available With A03333) | S04444-4 | 1 | ◆ |
| 3 | Sample Subassembly (Includes All Indented Parts Below) | K05555 | 1 | |
| | Sample Part (Indicates Part Is Only Available With K05555) | M06666 | 2 | ◆ |
| 4 | Sample Part | F07777-77 | 1 | |

To Order Parts:

From the Europe, call **+48 26 26 000** to order parts. Have your customer number, VIN, and part numbers ready when you call. From other international locations, contact the Wood-Mizer distributor in your area for parts.

6.3 Anti-Kickback & Press Roller



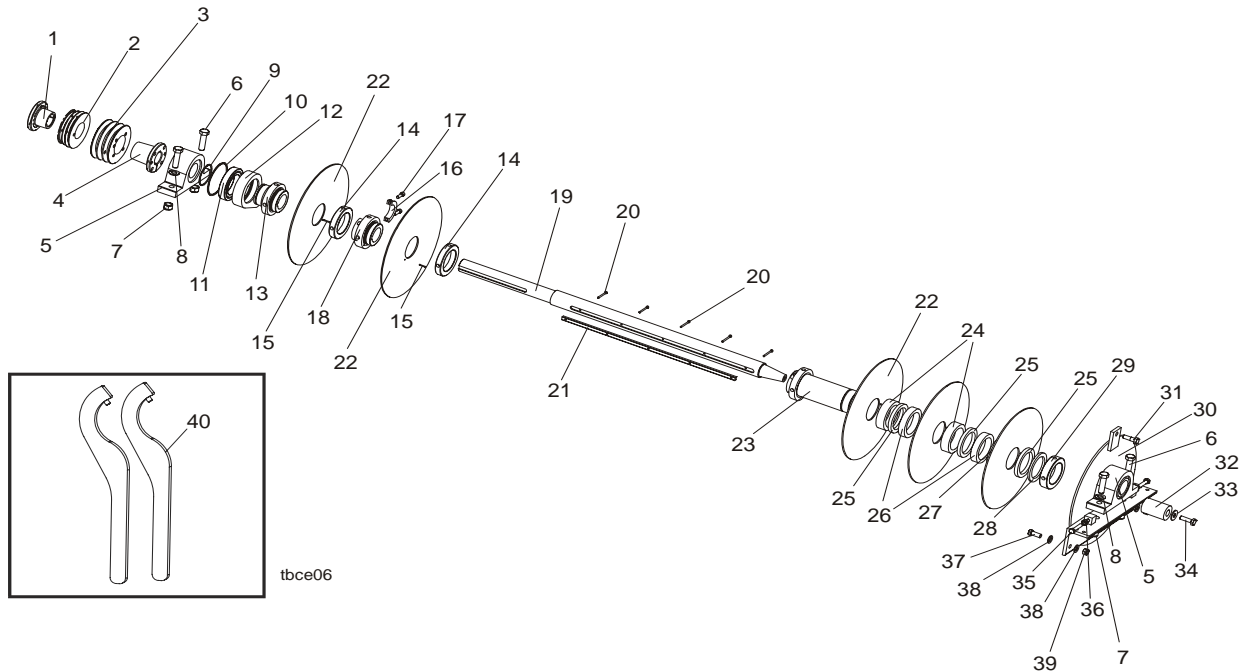
TB0016-6b2

| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|----------|------|
| 1 | SHAFT, 25X810 | 089089-1 | 1 |
| 2 | PLATE WELDMENT, ANTI-KICKBACK FINGER | 089087-1 | 1 |
| 3 | COLLAR, 1" LOCKING | 089161 | 2 |
| 4 | SCREW, M8X8-33H HEX SOCKET SET FLAT POINT ZINC | F81014-1 | 4 |
| 5 | KEY, 1/4" X 1 11/16" | 089229 | 2 |
| 6 | SHAFT, ANTI-KICKBACK FINGER | 089088-1 | 1 |
| 7 | FITTING, STRAIGHT GREASE | 086280 | 1 |
| 8 | HANDLE WELDMENT, ANTI-KICKBACK RELEASE | 089086 | 1 |

6**Parts***Anti-Kickback & Press Roller*

| | | | | |
|----|--|-----------|---|--|
| 9 | NUT, M10-8-B HEX ZINC | F81033-3 | 2 | |
| 10 | BUMP STOP, RUBBER | 089147 | 2 | |
| | PRESS ROLLER ASSEMBLY | 089156 | 1 | |
| 11 | Roller, Press w/Shaft | 038193 | 1 | |
| 12 | Bearing, UCFL 205 | 089124 | 4 | |
| 13 | Bolt, M10x35-8.8 Hex Head Full Thread Zinc | F81003-17 | 8 | |
| 14 | Nut, M10-8-B Hex Nylon Zinc Lock | F81033-1 | 8 | |
| 15 | Washer, 17 Flat Zinc | F81058-1 | 8 | |
| 16 | SHAFT, PIVOT | 089064 | 1 | |
| 17 | PIVOT WELDMENT, PRESS ROLLER | 089063-1 | 1 | |
| 18 | SCREW, M6X16 8.8 ZINC HEX SOCKET HEAD CAP | F81001-21 | 2 | |
| 19 | SPRING, 1.5 X 7 X 243 | 089689-1 | 2 | |
| 20 | TENSIONER, ZINC-PLATED | 089153-1 | 2 | |
| 21 | NUT, M10-8-B HEX NYLON ZINC LOCK | F81033-1 | 2 | |

6.4 Blade Drive Shaft Assembly



| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|---------------------|------|
| 1 | BUSHING, KEYED BORE SPLIT TAPER (2) | 091211 | 1 |
| 2 | PULLEY, 3-GROOVE ZINC-PLATED | 089649-1 | 1 |
| 3 | PULLEY, 15/18.5 KW EA25 MOTOR | 085671 | 1 |
| | PULLEY, 3-GROOVE | 087526 ¹ | 1 |
| 4 | BUSHING, KEYED BORE SPLIT TAPER (E25 MOTOR) | 085714 | 1 |
| 5 | BEARING ASSEMBLY, UCP 210 CX ² | 089041 | 2 |
| 6 | BOLT, M16X60 8.8 HEX HEAD FULL THREAD ZINC | F81006-12 | 4 |
| 7 | NUT, M16-8 HEX NYLON ZINC LOCK | F81036-2 | 4 |
| 8 | WASHER, 16.3 SPLIT LOCK ZINC | F81058-2 | 4 |
| | BLADE DRIVE SHAFT, COMPLETE | 089416 | 1 |
| 9 | Ring, Z70 Outside Retaining | 089165 | 1 |
| 10 | Ring, W110 Inside Retaining | 089166 | 1 |
| 11 | Bearing, 6014 2RS1 CX Ball ¹ | 089164 | 1 |
| 12 | Slider, Painted | 089094-1 | 1 |
| 13 | Arbor, Movable Blade Ptd | 089093-1 | 1 |
| 14 | Nut, Blade Retainer Ptd (EE15) | 089092-1 | 1 |
| 15 | Pin, H 3m6x20 DIN6325 HRC60 Roll | F81048-2 | 2 |
| 16 | Collar, Locking | 089116 | 1 |
| 17 | Screw, M8x25-8.8 Hex Socket Head Cap Zinc | F81002-21 | 2 |
| 18 | Arbor, Fixed Blade Ptd | 089091-1 | 1 |

6

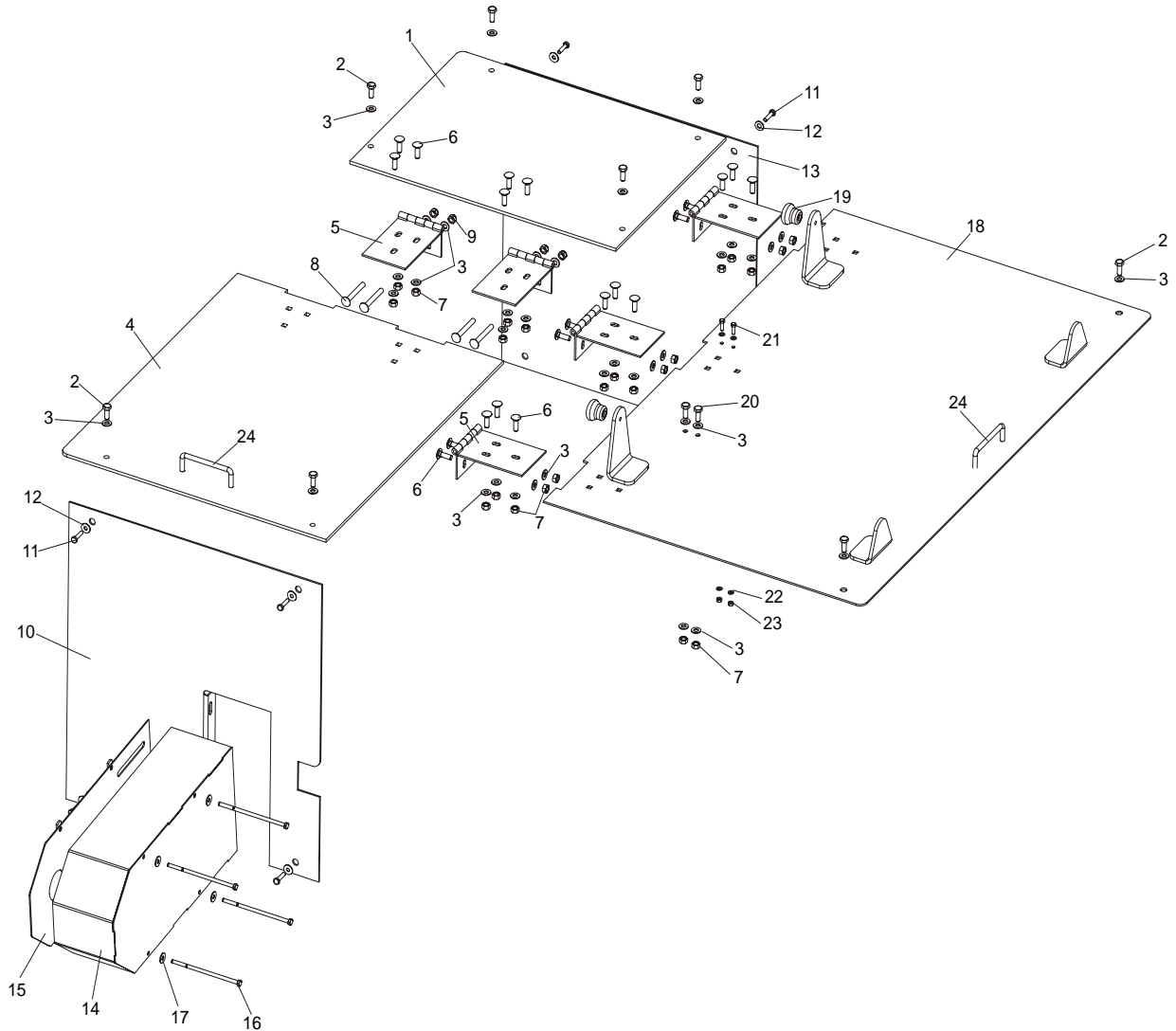
Parts*Blade Drive Shaft Assembly*

| | | | | |
|----|---|-----------|---|--|
| 19 | Shaft, Blade Drive | 089037 | 1 | |
| 20 | Screw, M4x50-8.8 Hex Socket Head Cap Zinc | F81011-32 | 5 | |
| 21 | Key, 12x8x585 Special | 089040 | 1 | |
| 22 | BLADE, DNPDe MULTIX 350x76x3.8/18 GM | 089144 | 5 | |
| | MOUNTING KIT FOR 5 BLADES | 093328 | 1 | |
| 23 | Bushing, Blade Mount (For 5 Blades) | 092961-1 | 1 | |
| 24 | Spacer, 26.1mm Thick (For 5 Blades) | 091510-1 | 4 | |
| 25 | Ring, Spacer (For 5 Blades) | 090967-1 | 4 | |
| 26 | Spacer (For 5 Blades) | 090968-1 | 5 | |
| 27 | Spacer, 5mm Thick (For 5 Blades) | 090971-1 | 4 | |
| 28 | Spacer, 6.4mm Thick (For 5 Blades) | 091511-1 | 1 | |
| | Spacer, 7.8mm Thick (For 5 Blades) | 091509-1 | 1 | |
| | Spacer, 4.2mm Thick (For 5 Blades) | 091135-1 | 1 | |
| 29 | Nut, Locking Zinc-Plated (For 5 Blades) | 091493-1 | 1 | |
| 30 | COVER, SIDE COMPLETE | 089167-1 | 1 | |
| 31 | BOLT, M12X40-8.8 HEX HEAD ZINC | F81004-1 | 1 | |
| 32 | BOLT, M12X40-8.8 HEX HEAD ZINC | 089128 | 1 | |
| 33 | WASHER, 13 ZINC FLAT | F81056-1 | 1 | |
| 34 | BOLT, M12X40-8.8 HEX HEAD FULL THREAD ZINC | F81004-4 | 1 | |
| 35 | BOLT, M10X50-8.8 HEX HEAD FULL THREAD ZINC | F81003-4 | 2 | |
| 36 | NUT, M10-8-B ZINC HEX | F81033-3 | 2 | |
| 37 | BOLT, M12X30-8.8 HEX HEAD FULL THREAD ZINC | F81004-22 | 2 | |
| 38 | WASHER, 13 ZINC FLAT | F81056-1 | 4 | |
| 39 | NUT, M12-8-B ZINC HEX | F81034-1 | 2 | |
| 40 | WRENCH FOR BLADE | 094641 | 2 | |

¹ 60Hz alternating current version.

² NOTE: Do not grease the bearings.

6.5 Covers



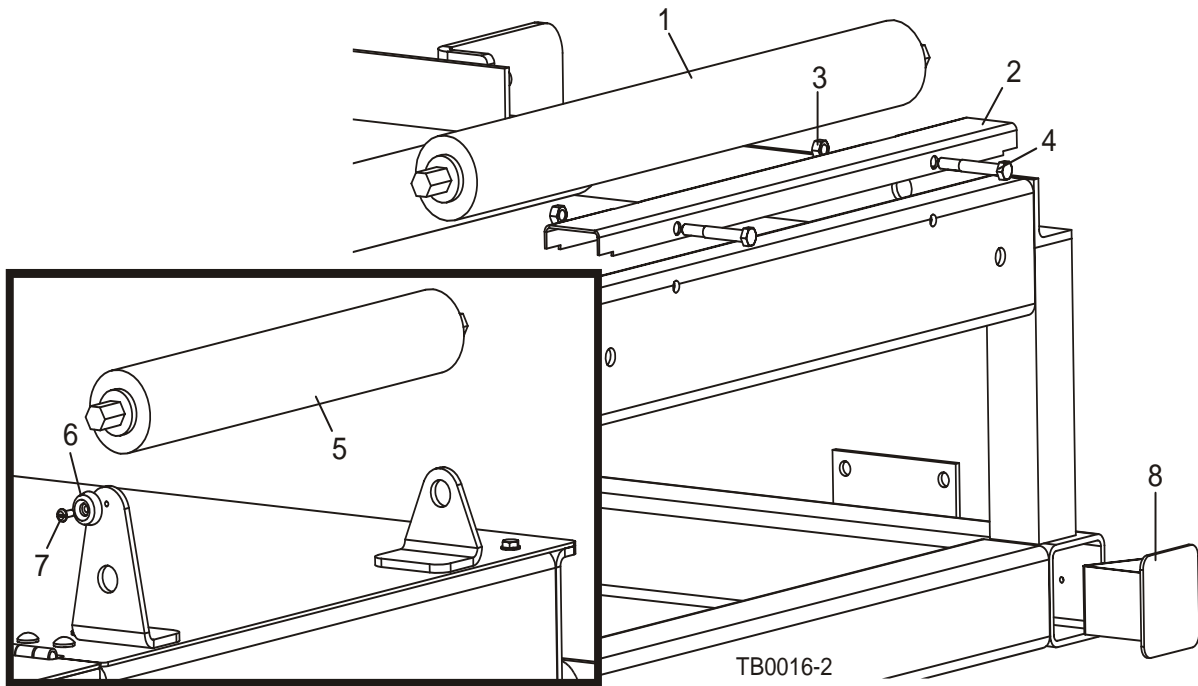
| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|-----------|------|
| 1 | COVER, DRIVE ASSEMBLY | 089646-1 | 1 |
| 2 | BOLT, M8X20-8.8-B HEX HEAD FULL THREAD ZINC | F81002-4 | 8 |
| 3 | WASHER, 8.4 FLAT ZINC | F81054-1 | 35 |
| 4 | COVER, DRIVE ASSEMBLY | 089645-1 | 1 |
| 5 | HINGE, SLOTTED, COMPLETE | 089190 | 5 |
| 6 | BOLT, M8X20 MUSHROOM HEAD SQUARE NECK ZINC | F81002-11 | 21 |
| 7 | NUT, M8-8-B HEX ZINC | F81032-1 | 21 |
| 8 | BOLT, M8X65-8.8 MUSHROOM HEAD SQUARE NECK ZINC | F81002-24 | 4 |
| 9 | NUT, M8-8-B HEX NYLON ZINC LOCK | F81032-2 | 4 |
| 10 | COVER, RIGHT FRONT | 089096-1 | 1 |

6 Parts

Covers

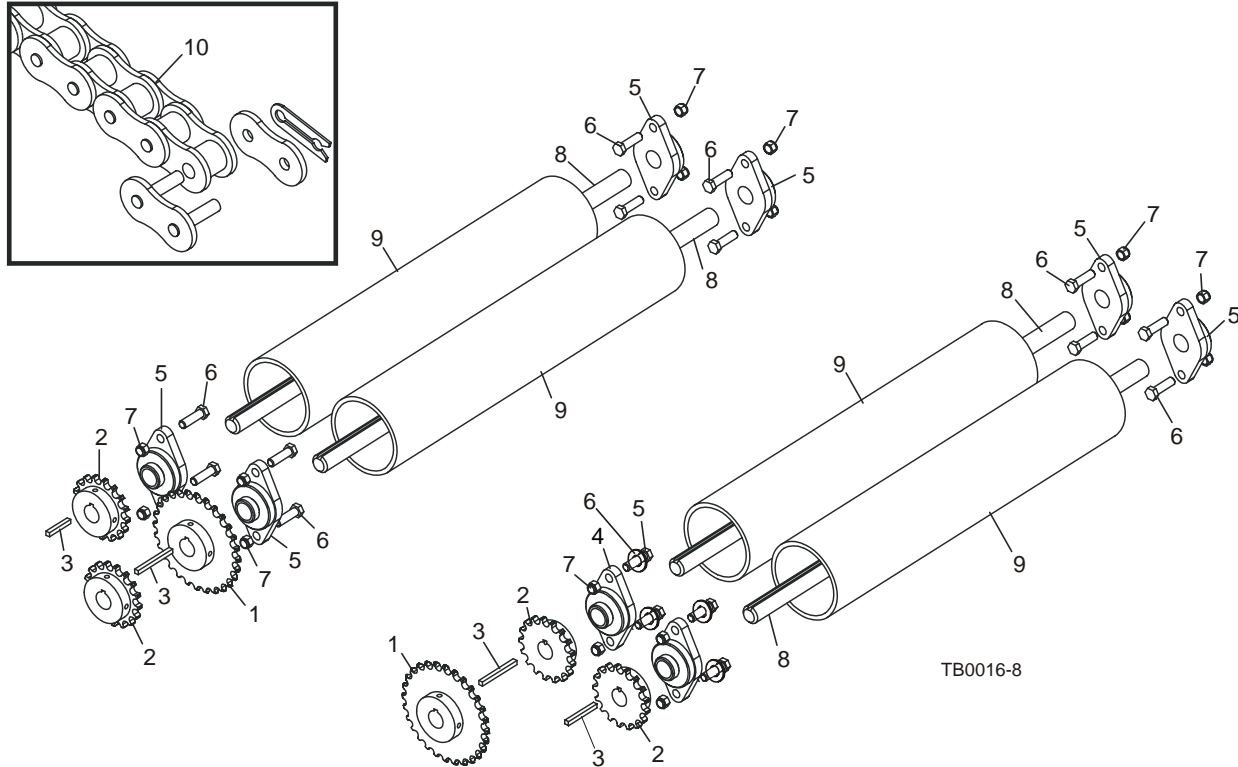
| | | | | |
|----|---|-----------|---|--|
| 11 | BOLT, M6X25-5.8 HEX HEAD FULL THREAD ZINC | F81001-3 | 8 | |
| 12 | WASHER, 6.4 FLAT ZINC | F81053-1 | 8 | |
| 13 | COVER, RIGHT REAR | 089107-1 | 1 | |
| 14 | COVER WELDMENT, BELT GUARD | 089607-1 | 1 | |
| 15 | PLATE WELDMENT, BELT GUARD | 089595-1 | 1 | |
| 16 | BOLT, M6X136-5.8 HEX HEAD ZINC | F81001-51 | 4 | |
| 17 | WASHER, 6.5 SPECIAL FLAT ZINC | F81053-11 | 4 | |
| 18 | COVER WELDMENT, TOP LEFT | 089109 | 1 | |
| 19 | STOP, RUBBER | 087825 | 2 | |
| 20 | BOLT, M8X20-5.8 HEX HEAD FULL THREAD ZINC | F81002-1 | 2 | |
| 21 | BOLT, M5X16-5.8 HEX HEAD FULL THREAD ZINC | F81000-51 | 2 | |
| 22 | WASHER, 5.3 FLAT ZINC | F81052-1 | 4 | |
| 23 | NUT, M5-8 HEX ZINC | F81030-1 | 2 | |
| 24 | HANDLE, BLADE COVER | P08065 | 2 | |

6.6 Feed Table & Return Rollers



| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|-----------|------|
| 1 | ROLLER, 63.5/20X600/608/626 s=14-PTD (EE15) FEED | 089044-1 | 6 |
| 2 | COVER, 22 3/4" STAINLESS STEEL RAIL | S13012 | 1 |
| 3 | NUT, M8-8-B HEX ZINC | F81032-1 | 2 |
| 4 | BOLT, M8X70 8.8 HEX HEAD ZINC | F81002-71 | 2 |
| 5 | ROLLER, 63.5/2X500/508/526 S=14 PTD (EDGER) RETURN | 089039-1 | 2 |
| 6 | STOP, RUBBER | 087825 | 2 |
| 7 | BOLT, M5X30-5.8 HEX HEAD ZINC | F81000-9 | 2 |
| 8 | CAP WELDMENT, TUBE END | 089143-1 | 4 |

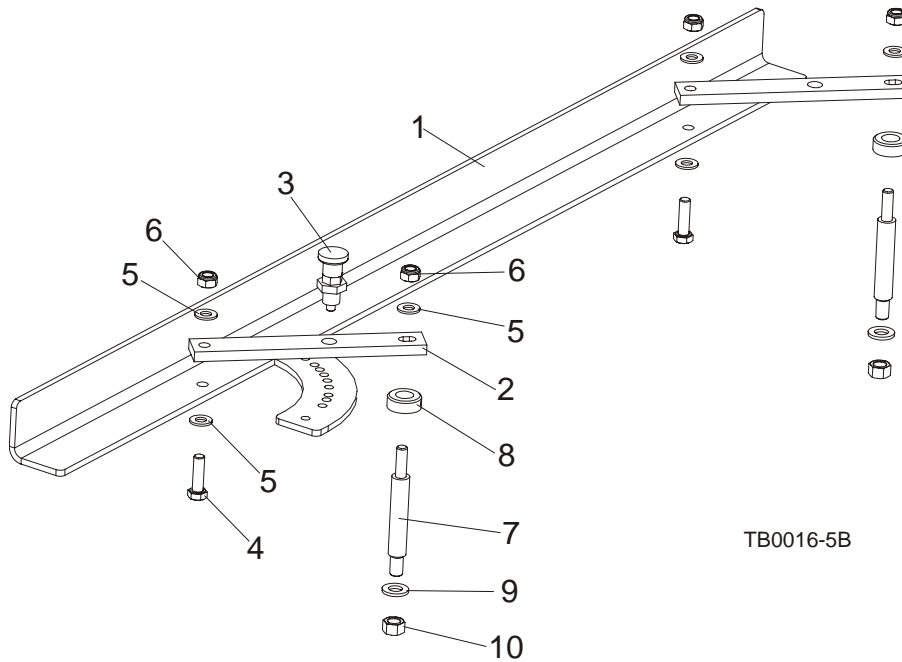
6.7 Feed Roller Assemblies & Roller Chain



TB0016-8

| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. | |
|-----|--|-----------|------|--|
| 1 | SPROCKET, Z 28 ZINC-PLATED | 089099-1 | 2 | |
| 2 | SPROCKET, ZINC-PLATED | 089098-1 | 4 | |
| 3 | KEY, AB 8X8X70 | 089231 | 2 | |
| 4 | BEARING, UCFL 205 FLANGED | 089124 | 8 | |
| 5 | BOLT, M10X35-8.8 HEX HEAD FULL THREAD ZINC | F81003-17 | 16 | |
| 6 | WASHER, 10.5 FLAT ZINC | F81055-1 | 16 | |
| 7 | NUT, M10-8-B HEX NYLON ZINC LOCK | F81033-1 | 16 | |
| 8 | SHAFT, FEED ROLLER | 089059-1 | 4 | |
| 9 | ROLLER, FEED | 038192 | 4 | |
| 10 | CHAIN, 10B-37WZ+LINK 10BWZ, ROLLER-TO-ROLLER | 089177 | 2 | |
| | CHAIN, 10B-65WZ+LINK 10BWZ GEARBOX-TO-ROLLER | 089175 | 2 | |

6.8 Board Guide Fence

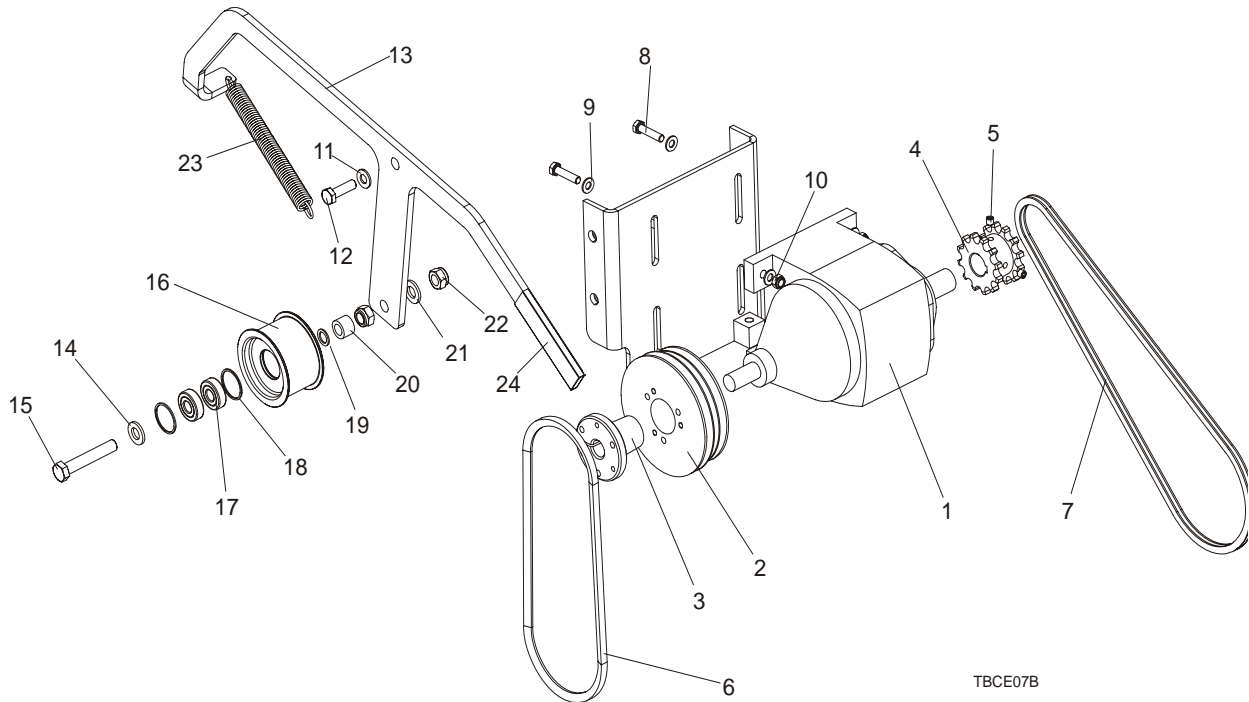


| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|-----------|------|
| | FENCE ASSEMBLY, BOARD GUIDE | 095424 | 1 |
| 1 | Fence, Board Guide | 095423-1 | 1 |
| 2 | Bar, Guide Fence Arm | 094621-1 | 2 |
| 3 | Pin, Detent | 090197 | 1 |
| 4 | Bolt, M10x35-8.8 Hex Head Full Thread Zinc | F81003-17 | 2 |
| 5 | Washer, 10.5 Flat Zinc | F81055-1 | 6 |
| 6 | Nut, M10-8-B Hex Nylon Zinc Lock | F81033-1 | 4 |
| 7 | Pin, Guide Fence Arm Zinc-plated | 094874-1 | 2 |
| 8 | Ring, 17 Stopping Light Type Zinc-plated | F81039-1 | 2 |
| 9 | Washer, 13 Flat Zinc | F81056-1 | 2 |
| 10 | Nut, M12-8-B Hex Zinc | F81034-1 | 2 |

6 Parts

Gear Box & Idle-Side Pulley

6.9 Gear Box & Idle-Side Pulley



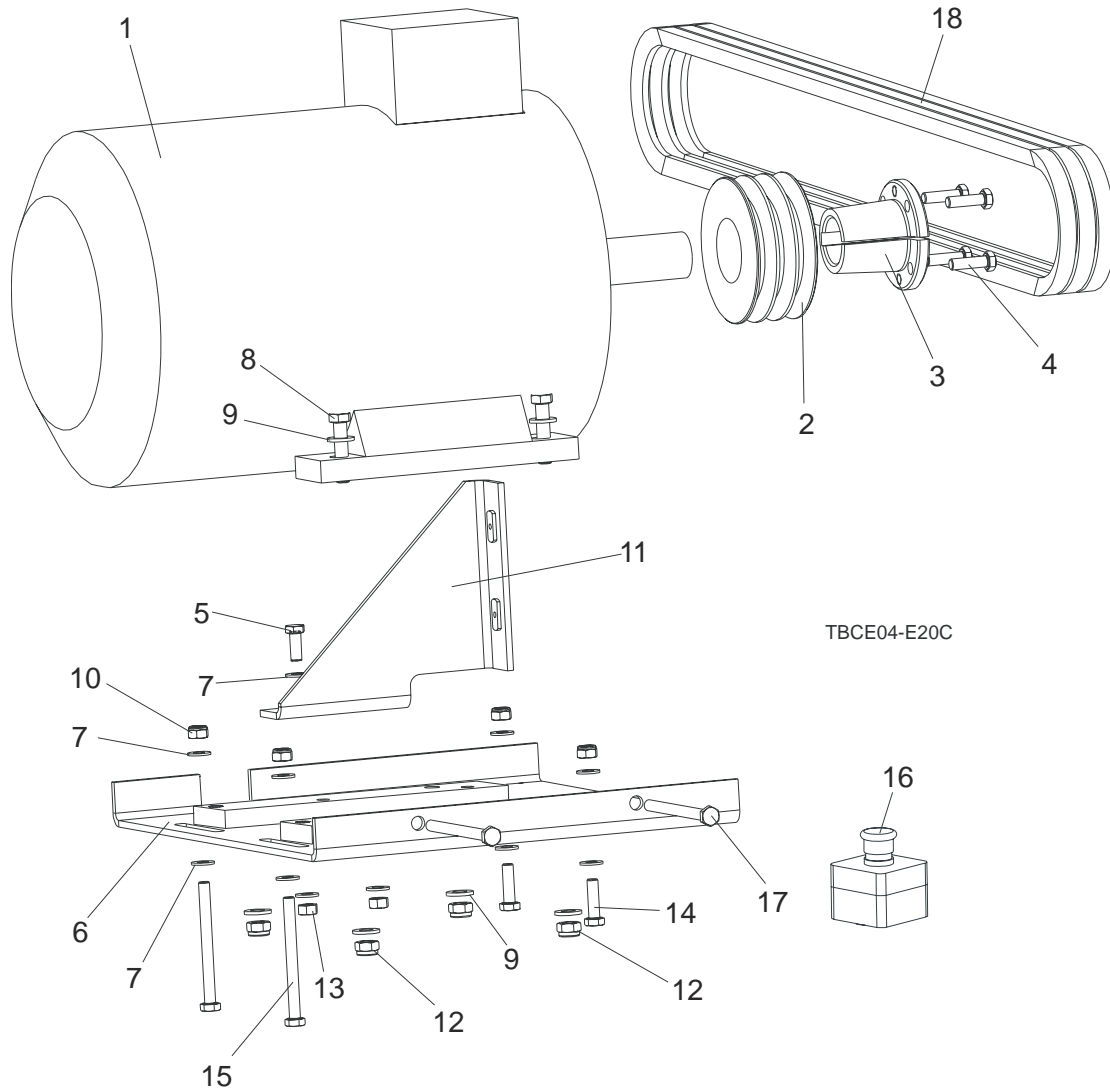
| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART# | QTY. |
|-----|--|-----------|------|
| | GEAR BOX ASSEMBLY | 091815 | 1 |
| 1 | Gear Box, R37AD2 | 089046 | 1 |
| 2 | Pulley, 3-Groove Zinc-plated (2) | 089648-1 | 1 |
| 3 | Bushing, Split Taper (1) | 091210 | 1 |
| 4 | Sprocket, 2x12 Zinc-plated | 089100-1 | 1 |
| 5 | Screw, M8X8-33H Hex Socket Set Flat Point Zinc | F81014-1 | 2 |
| 6 | Belt, AVX10x875La | 090678 | 1 |
| 7 | Chain, 10B-62PZ | 089179 | 1 |
| 8 | Bolt, M8x35 -8.8 Hex Head Full Thread Zinc | F81002-13 | 2 |
| 9 | Washer, 8.4 Flat Zinc | F81054-1 | 4 |
| 10 | Nut, M8-8-B Hex Nylon Zinc Lock | F81032-2 | 2 |
| 11 | Washer, 10.5 Flat Zinc | F81055-1 | 1 |
| 12 | Bolt, M10X35-8.8 Hex Head Full Thread Zinc | F81003-17 | 1 |
| | Belt Tensioner Assembly | 094382 | 1 |
| 13 | Arm, Belt Tensioner | 095441-1 | 1 |
| 14 | Washer, 13 Flat Zinc | F81056-1 | 1 |
| 15 | Bolt, M12x70-8.8 Hex Head Zinc | F81004-39 | 1 |
| | Belt Tensioner Roller Assembly | 093982 | 1 |
| 16 | Roller, Belt Tensioner Zinc-plated | 093984-1 | 1 |

| | | | | |
|-----------|--------------------------------|----------|---|--|
| 17 | Bearing, 6201 2RS | 089060 | 2 | |
| 18 | Collar, SW32 | 089062 | 2 | |
| 19 | Ring, Spacer | 089058 | 1 | |
| 20 | Bushing, Belt Tensioner | 093444 | 1 | |
| 21 | Washer, 13 Flat Zinc | F81056-1 | 1 | |
| 22 | Nut, M12-8-B Hex Zinc | F81034-2 | 2 | |
| 23 | Spring, FI 2.8 x FI 22.2 x 183 | 091864 | 1 | |
| 24 | Grip, Hand | 095074 | 1 | |

6 Parts

Motor, Hour Meter & E-Stop

6.10 Motor, Hour Meter & E-Stop

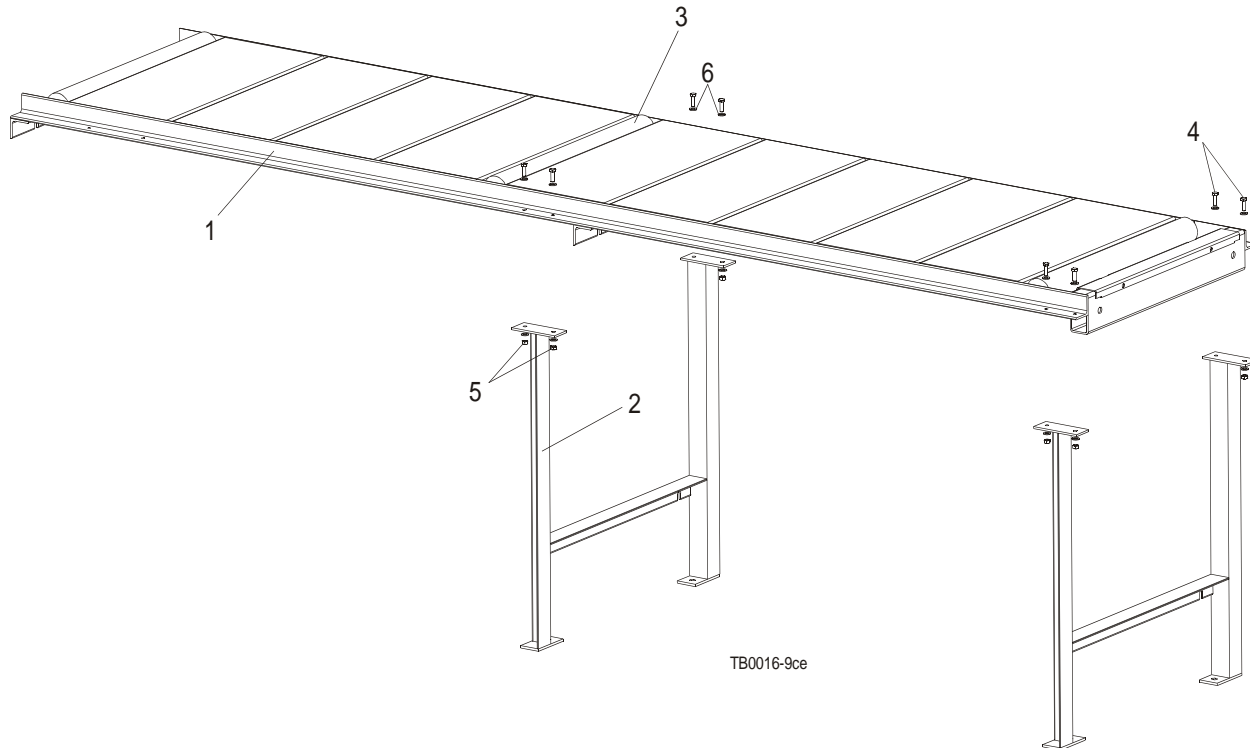


| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|---------------------|------|
| | ELECTRIC MOTOR ASSEMBLY | ES20 | 1 |
| | ELECTRIC MOTOR ASSEMBLY, CE VERSION | ES25C | 1 |
| 1 | Motor, 15kW (20HP) 3-Phase 380-420V/50Hz (EE20) Sg160M2B-HM | 087929 | 1 |
| | Motor, 230V Sg160M2B-HM (Norwegian version) | 087929-2 | 1 |
| | Motor, 400V Sg160ML2-HM 50Hz 18.5kW (EE25) | 096622 | 1 |
| 2 | Motor Pulley | 085671 | 1 |
| | Pulley, 3-groove | 093770 ¹ | 1 |
| 3 | Bushing | 085714 | 1 |
| 4 | Bolt, M10x35-8.8 Hex Head Full Thread Zinc | F81003-17 | 4 |
| 5 | Bolt, M10x25-8.8 Hex Head Full Thread Zinc | F81003-11 | 2 |

| | | | | |
|-----------|--|-----------|----|--|
| 6 | Plate, ES15/ES20/ES25 Motor Mount | 094649-1 | 1 | |
| 7 | Washer, 10.5 Flat Zinc | F81055-1 | 12 | |
| 8 | Bolt, M12x55-8.8 Hex Head Zinc | F81004-12 | 2 | |
| 9 | Washer, 13 Flat Zinc | F81056-1 | 6 | |
| 10 | Nut, M10-8-B Hex Nylon Zinc Lock | F81033-1 | 4 | |
| 11 | Bracket Weldment, EE20 Belt Guard | 089162-1 | 1 | |
| 12 | Nut, M12-8 Hex Nylon Zinc Lock | F81034-2 | 4 | |
| 13 | Nut, M10-8-B Hex Zinc | F81033-3 | 5 | |
| 14 | BOLT, M10X35-8.8 HEX HEAD FULL THREAD ZINC | F81003-17 | 2 | |
| 15 | BOLT, M10X110 8.8 HEX HEAD ZINC | F81003-43 | 1 | |
| 16 | SWITCH ASSEMBLY, XALK 174 EMERGENCY STOP | E22703-P | 1 | |
| 17 | BOLT, M10X140-8.8 HEX HEAD FULL THREAD ZINC | F81003-39 | 2 | |
| 18 | BELTS, 3B/HB2000LI | 089223 | 1 | |

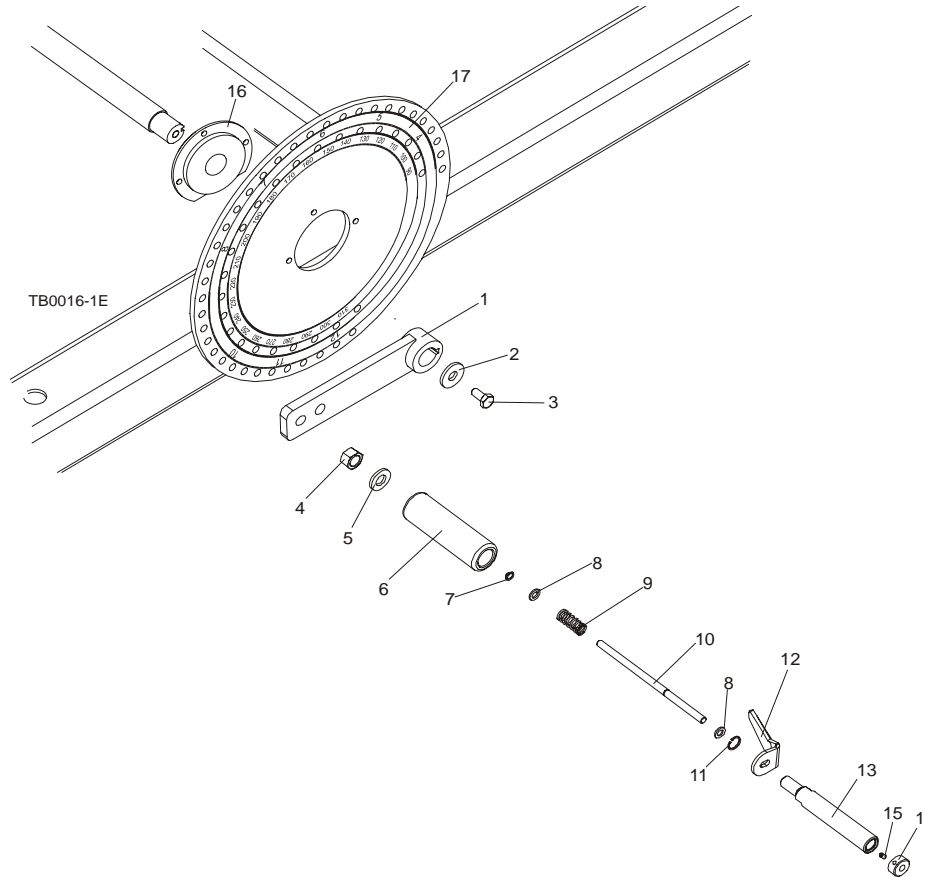
¹ 60Hz current version.

6.11 Outfeed Table



| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. | |
|-----|--|----------|------|--|
| | OUTFEED TABLE, COMPLETE | 089248 | 1 | |
| 1 | Outfeed Table | 089163-1 | 1 | |
| 2 | Leg, Outfeed Table | 089250-1 | 2 | |
| 3 | Roller, 63.5 x 600 Feed | 089044-1 | 3 | |
| 4 | Bolt, M8x25-8.8-B Hex Head Full Thread Zinc | F81002-5 | 8 | |
| 5 | Nut, M8-8-B Hex Zinc | F81032-1 | 8 | |
| 6 | Washer, 8.4 Flat Zinc | F81054-1 | 16 | |

6.12 Networks Dial & Indicator

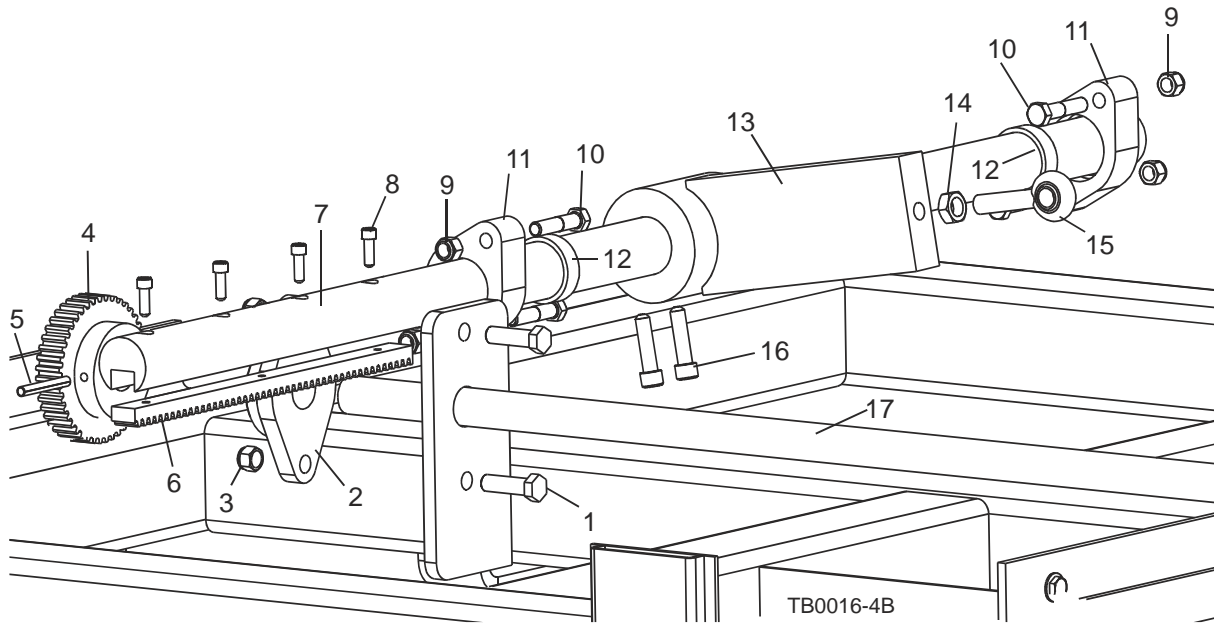


| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|-----------|------|
| 1 | HANDLE WELDMENT, CRANK | 096686-1 | 1 |
| 2 | WASHER,10,5 SPECIAL FLAT ZINC | F81055-6 | 1 |
| 3 | BOLT, M8x16 -8.8 HEX HEAD FULL THREAD ZINC | F81002-20 | 1 |
| | HANDLE, EDGER SETWORKS DIAL CRANK | 096499 | 1 |
| 4 | Nut, M12, Hexagon, Grade 5.8, Zinc | F81034-1 | 1 |
| 5 | Washer, M12 , Flat, Zinc | F81056-1 | 1 |
| 6 | Grip, Edger Crank Handle | 097263 | 1 |
| 7 | Ring, Z 7 Outside Retaining | F81090-17 | 1 |
| 8 | Washer, 7.2/12.5 - Zinc | 097264-1 | 2 |
| 9 | Spring, .048 Dia x 1.5 Long SS Compression | 047690 | 1 |
| 10 | Pin, Edger Crank Handle | 097095-1 | 1 |
| 11 | Ring, W13 Retaining | F81090-18 | 1 |
| 12 | Plate, Edger Crank Handle | 047689 | 1 |
| 13 | Mandrel, Edger Crank Handle Zinc | 096504-1 | 1 |
| 14 | Ring, 7 Retaining | F81039-9 | 1 |
| 15 | Screw, M4X8 Set Zinc-Plated | F81011-40 | 1 |

6 **Parts** *Setworks Dial & Indicator*

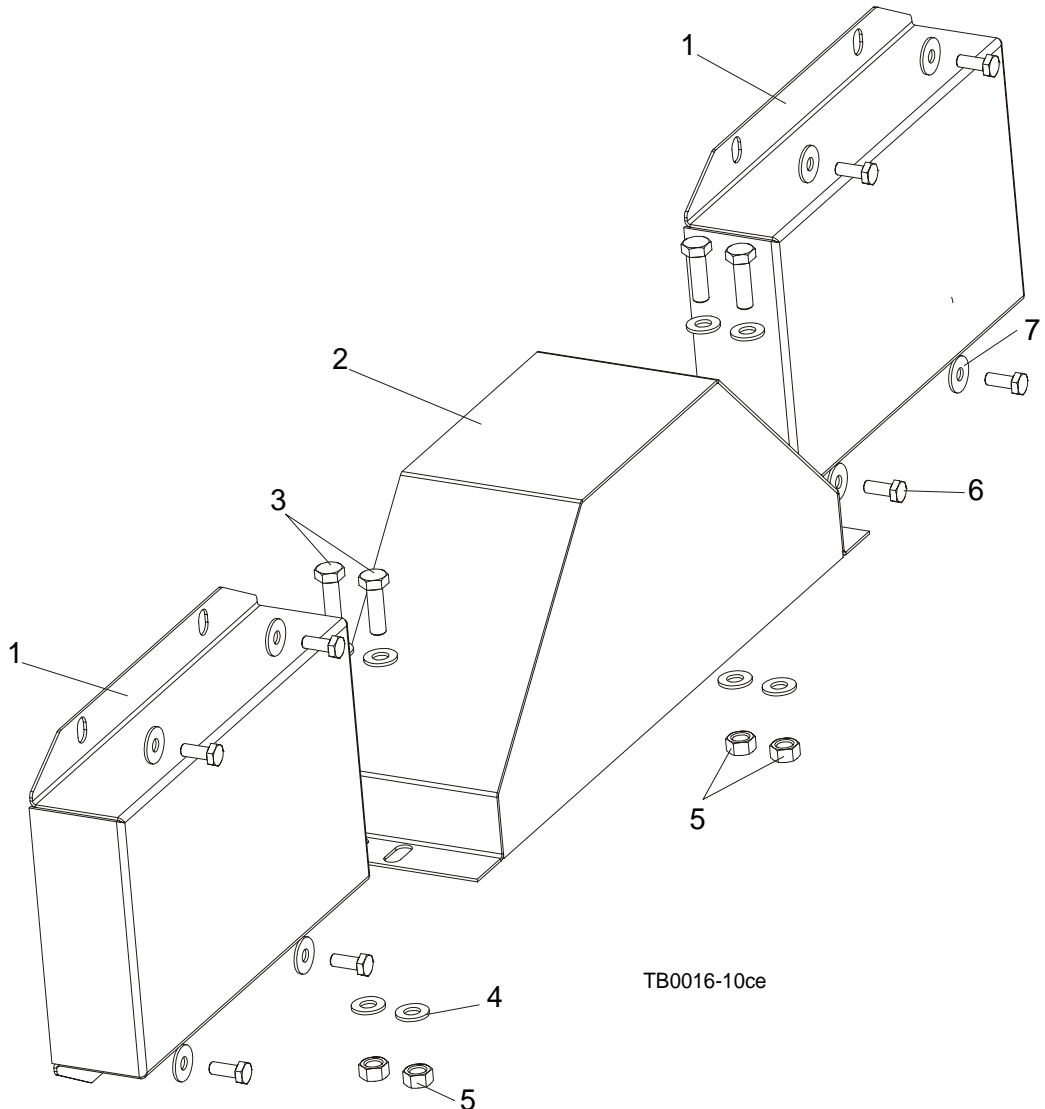
| | | | | |
|----|-------------------------------------|----------|---|--|
| 16 | REDUCTION BUSHING, INDEX PLATE ZINC | 089208-1 | 1 | |
| 17 | DECAL, INDEX PLATE | 101196 | 1 | |

6.13 Networks Gear & Shaft



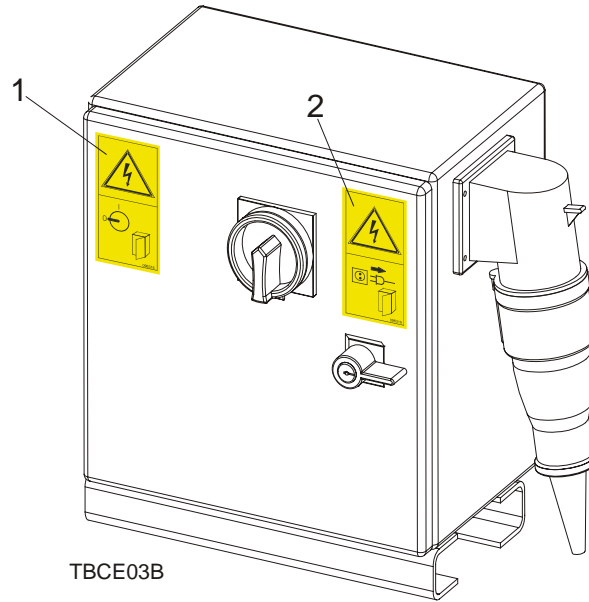
| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|-----------|------|
| 1 | BOLT, M12X40-8.8 HEX HEAD FULL THREAD ZINC | F81004-4 | 2 |
| 2 | BEARING, UCFL 205 FLANGED | 089124 | 1 |
| 3 | NUT, M12-8-B HEX ZINC | F81034-1 | 2 |
| 4 | GEAR, SETWORKS TRAVEL, ZINK-PLATED | 089054-1 | 1 |
| 5 | PIN, 6X50 FE/ZN5 | F81045-1 | 1 |
| | SETWORKS TRAVEL, COMPLETE | 089131 | 1 |
| 6 | Rack, Setworks Travel | 089128 | 1 |
| 7 | Shaft, Setworks Gear Travel Chromium-plated | 089038-1 | 1 |
| 8 | SCREW, M6X20-8.8 HEX SOCKET HEAD CAP ZINC | F81001-22 | 4 |
| 9 | NUT, M10-8-B HEX ZINC | F81033-3 | 4 |
| 10 | BOLT, M10X45-8.8 HEX HEAD FULL THREAD ZINC | F81003-3 | 4 |
| | SETWORKS SHAFT BEARING - COMPLETE | 089134 | 2 |
| 11 | Mount, Setworks Shaft Bearing | 089047 | 2 |
| 12 | Bearing, SR.38/45 | 089048 | 2 |
| 13 | BRACKET WELDMENT, SETWORKS SLIDING | 089150-1 | 1 |
| 14 | NUT, M12-8-B HEX ZINC | F81034-1 | 1 |
| 15 | ROD END, PGAKR 12 MALE | 089127 | 1 |
| 16 | SCREW, M10X40 HEX SOCKET HEAD CAP ZINC | F81003-22 | 2 |
| 17 | AXLE, INDEX HEAD ZINC (EDGER MULTIRIP) | 089119-1 | 1 |

6.14 Shaft End Covers



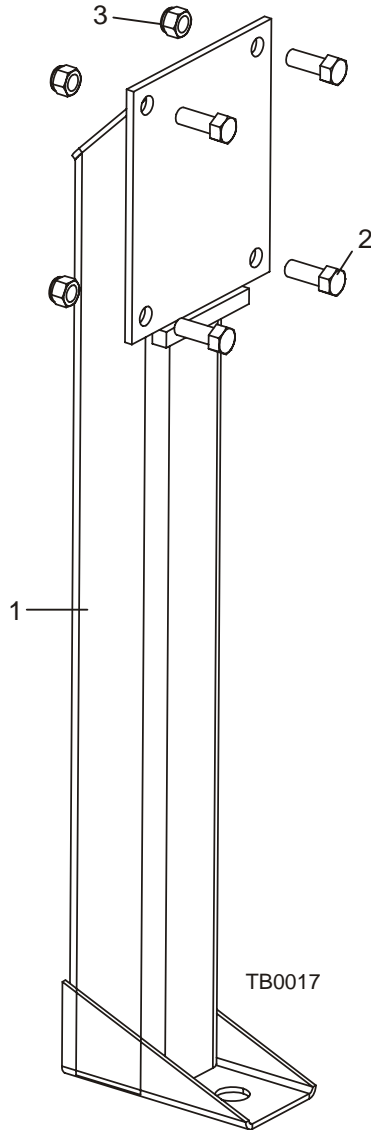
| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|-----------|------|
| 1 | COVER, FLANGED BEARING | 089125 | 2 |
| 2 | COVER WELDMENT, BEARING | 089133-1 | 1 |
| 3 | BOLT, M8X25-8.8-B HEX HEAD FULL THREAD ZINC | F81002-5 | 4 |
| 4 | WASHER, 8.4 FLAT ZINC | F81054-1 | 4 |
| 5 | NUT, M8-8-B HEX ZINC | F81032-1 | 4 |
| 6 | BOLT M6X16 8.8 HEX HEAD FULL THREAD ZINC | F81001-15 | 8 |
| 7 | WASHER, 6.5 SPECIAL FLAT ZINC | F81053-11 | 8 |

6.15 Starter Assembly



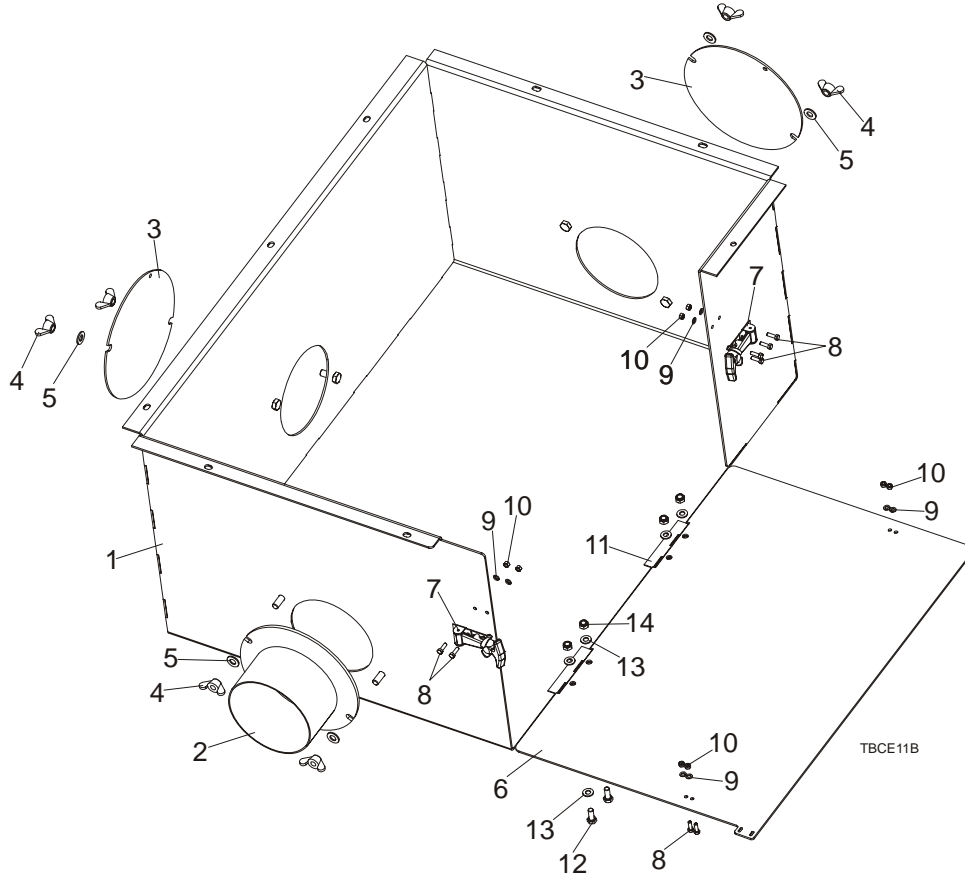
| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. | |
|-----|---|----------|------|--|
| | BOX ASSEMBLY, E15&E20 EDGER (See Section 7 for details) | 088390 | 1 | |
| | BOX ASSEMBLY, EDGER (NORWEGIAN VERSION) | 088390-2 | 1 | |
| | BOX ASSEMBLY, E25 EDGER | 096233 | 1 | |
| 1 | DECAL, HIGH VOLTAGE INSIDE THE ELECTRIC BOX (PICTOGRAM) | 096316 | 1 | |
| 2 | DECAL, REMOVE THE PLUG BEFORE OPENING THE BOX (PICTOGRAM) | 096319 | 1 | |

6.16 Stationary Legs



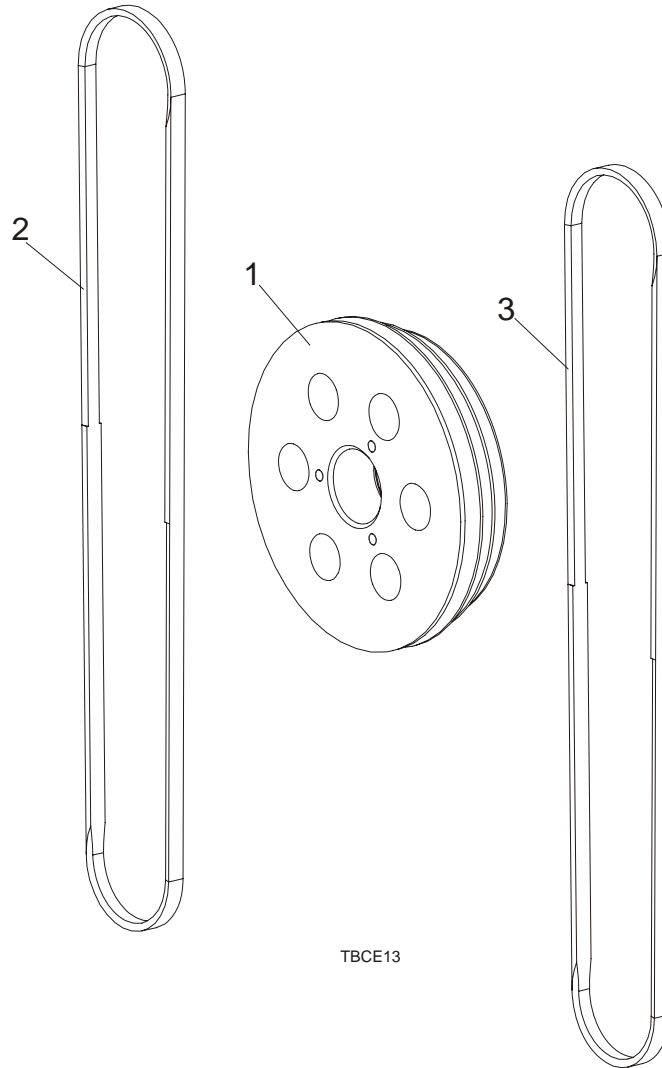
| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. | |
|-----|--|-----------|------|--|
| 1 | LEG WELDMENT, STATIONARY | W09515 | 4 | |
| 2 | BOLT, M10X1X25 DIN 933 STAINLESS STEEL | F81003-28 | 16 | |
| 3 | NUT, M10-8-B HEX NYLON ZINC LOCK | F81033-1 | 16 | |

6.17 Sawdust Hopper



| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|---------------|----------|
| | HOPPER ASSEMBLY, EDGER SAWDUST DEEP | 100690 | 1 |
| 1 | Hopper Weldment, Sawdust | 100685-1 | 1 |
| 2 | Pipe Weldment, Sawdust Extractor Connector | 095412-1 | 1 |
| 3 | Cover, Hopper Hole Painted | 095413-1 | 2 |
| 4 | Nut, M10 Wing Zinc | F81033-8 | 6 |
| 5 | Washer, 10.5 Flat Zinc | F81055-1 | 6 |
| 6 | Cover, Edger Hopper | 100689-1 | 1 |
| 7 | Latch, Flexible Draw | 014829 | 2 |
| 8 | Screw, M5x16-5.8 Zinc | F81000-51 | 8 |
| 9 | Washer, 5.3 Flat Zinc | F81052-1 | 8 |
| 10 | Nut, M5 Hex Gr 5,8 Free, Zinc | F81030-1 | 8 |
| 11 | Hinge, Cover | 097138 | 2 |
| 12 | Bolt, M8X20mm, Hex Head, Gr 5.8 Zinc | F81002-4 | 4 |
| 13 | Washer, 8.4 Flat Zinc | F81054-1 | 8 |
| 14 | Nut, M8-8-B, Hex, Nylon Lock Zinc | F81032-2 | 4 |

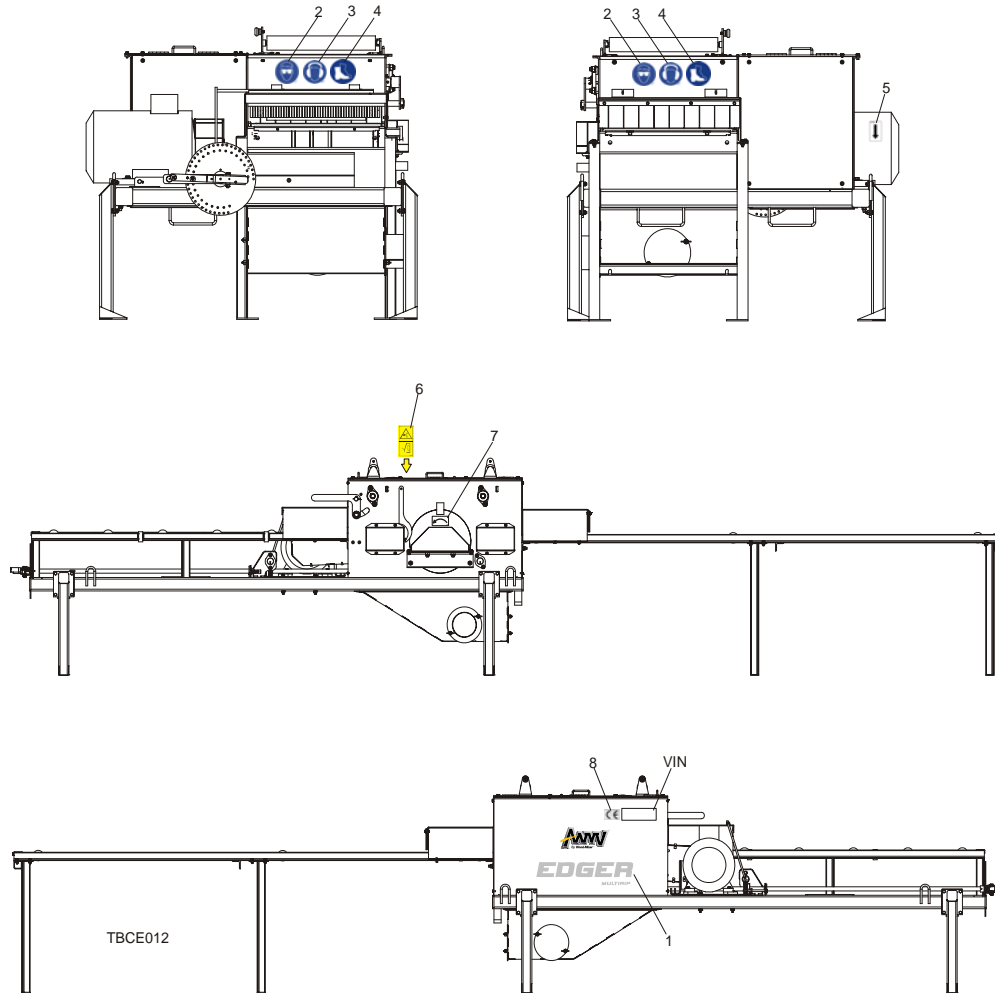
6.18 Speed Reduction Assembly (optional)



| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|---------------------|------|
| | EDGER SPEED REDUCTION ASSEMBLY | 099960 ¹ | 1 |
| 1 | Pulley, 3-Groove Zinc-plated | 099782-1 | 1 |
| 2 | Belt, AVX 10x925 | 099961 | 1 |
| 3 | Belt, AVX 10x900 | 099962 | 1 |

¹ Belts and pulley assembly, mounted on Edger reducer, enables getting lower feed rates, which are: 11.1; 13.2 and 15 m/min.

6.19 Edger Decals



| REF | DESCRIPTION (◆ Indicates Parts Available In Assemblies Only) | PART # | QTY. |
|-----|--|---------------|----------|
| | DECAL KIT, EDGER | 101047 | 1 |
| 1 | DECAL KIT, EDGER NAME | 099586 | 1 |
| | PICTOGRAPHIC DECAL KIT, EDGER | 099520 | 1 |
| 2 | DECAL, EYE PROTECTION WARNING (PICTOGRAM) | S12004G | 2 |
| 3 | DECAL, EAR PROTECTION WARNING (PICTOGRAM) | S12005G | 2 |
| 4 | DECAL, USE SAFETY BOOTS (PICTOGRAM) | 501465 | 2 |
| 5 | DECAL, MOTOR ROTATION DIRECTION | S20097 | 1 |
| 6 | DECAL, SAWMILL COVERS CAUTION | 099220 | 1 |
| 7 | DECAL, ROTATION DIRECTION | 089296 | 1 |
| 8 | DECAL, CE CERTIFIED SAWMILL | P85070 | 1 |
| | DECAL, INDEX PLATE | 089295 | 1 |
| | SKALE, EDGER | 089297 | 2 |

SECTION 7 ELECTRICAL INFORMATION

7.1 Wiring Diagrams

7.2 Wiring Diagrams

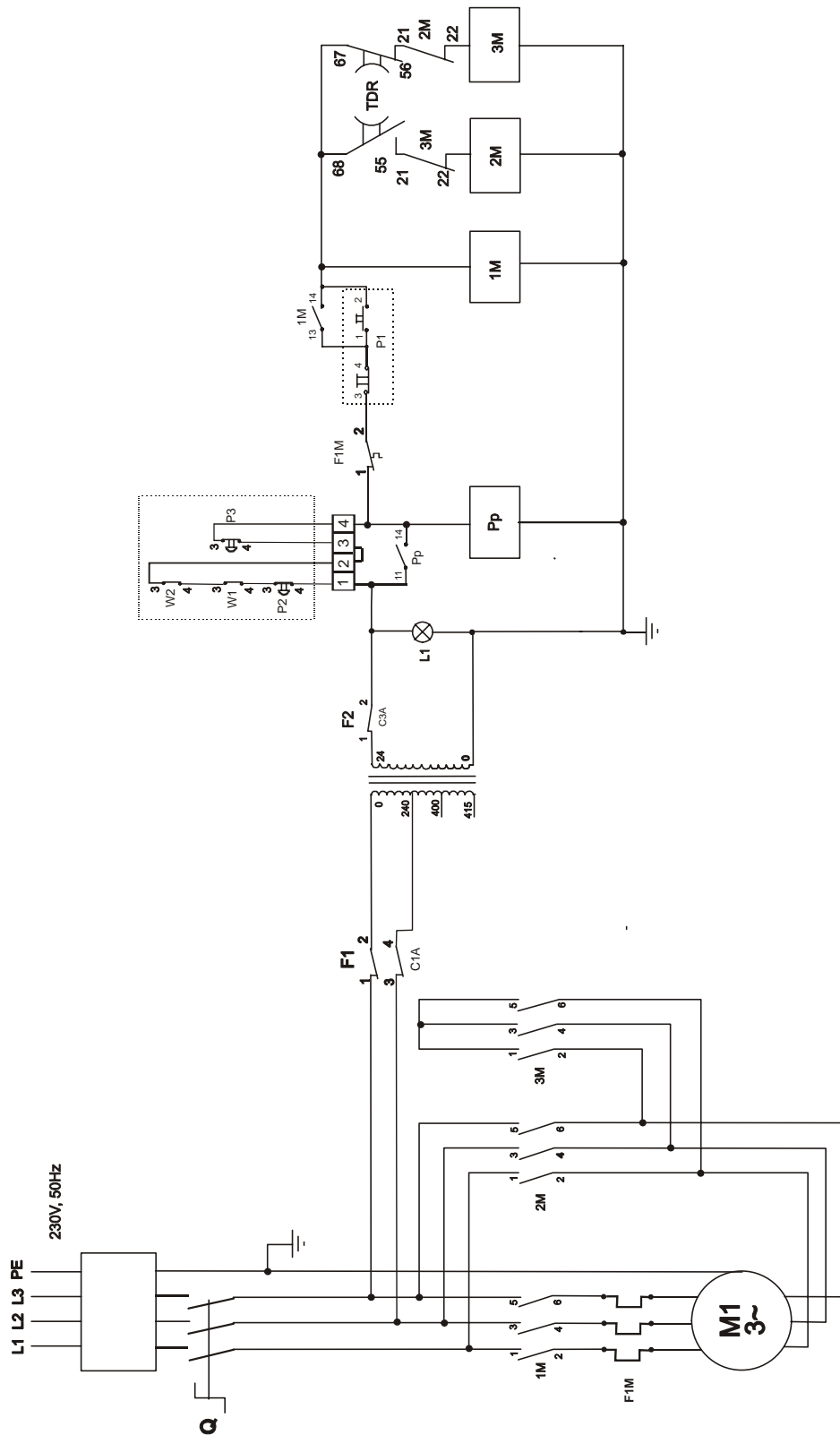


FIG. 7-3 EE15, EE20 ELECTRICAL EDGER (NORWEGIAN VERSION)

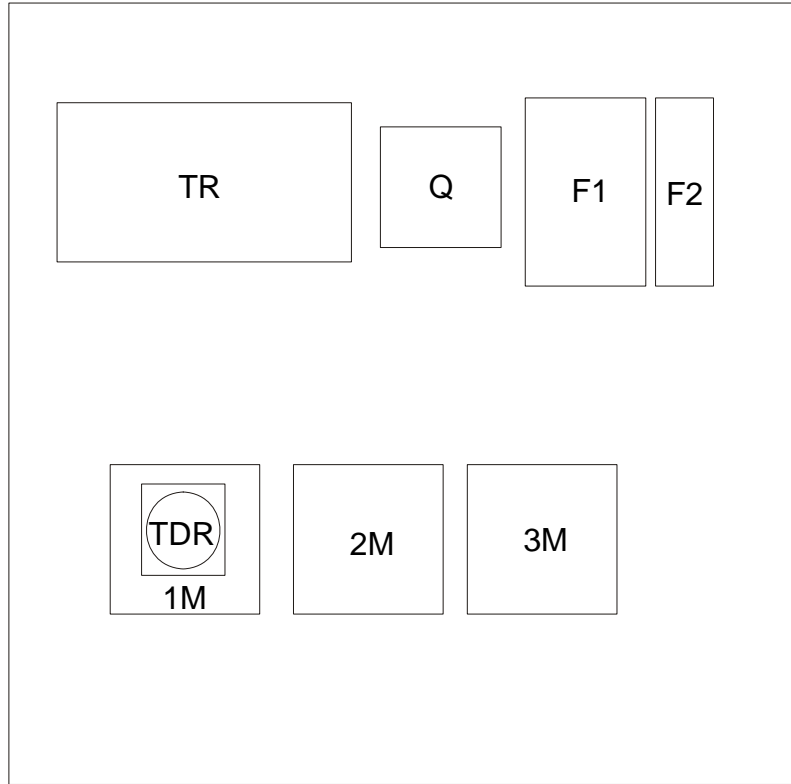
7.3 Electrical Component Lists

| Component List - EE15, EE20 | | | |
|-----------------------------|--------------------------------|---------------------|--|
| Item | Mfg. Part No. | Wood-Mizer Part No. | Description |
| Tr | TMM63/A | 094487 | Transformer 230,400/25V |
| Q | ABB OT32E3 | 088265 | Disconnecter |
| GZ | GZ1 M32 | 088264 | Disconnecter, Motor |
| F1 | C60N 2P C1 24331 | 093905 | Disconnecter, Module |
| F2 | C60N 1P C1 24395 | 084454 | Disconnecter, Module |
| 1M, 2M | LC1 D18 B7 | 084306 | Contactora |
| 3M | LC1 D09 B7 | 084305 | Contactora |
| TDR | LADS2 | 084037 | Relay, Time |
| P1 | M22 | 090452 | Button, START-STOP |
| P2, P3 | XALJ174F | E22703-P | Switch Assembly, Emergency Stop |
| P6 | XB4BS542 | 086556 | Switch Assembly, Emergency Stop |
| L1 | M22 | 090448 | Lamp, Control |
| M1 | Sg132S- 2PC HM Sg160 M2B HM | 088049 087929 | 15 KM Motor, Electric 20 KM Motor, Electric |
| W1 | GSCA 01S1 | 088407 | Switch, Handle Stop |
| W1 | GSCA 01S1 | 088407 | Switch, Limit |
| W2 | EVN2000C | -- | Switch, Limit |
| W2 | EVN2000C | 089816 | Switch, Limit |

| Component List - EE15, EE20 (Norwegian version) | | | |
|---|--------------------------------|----------------------|--|
| Item | Mfg. Part No. | Wood-Mizer Part No. | Description |
| Tr | TMM100A | 094487 | Transformer 230,400/25V |
| Q | ABB OT63E3 | -- | Disconnecter |
| F1M | LR2 D33 | -- | Disconnecter, Thermal |
| F1 | C60N 2P C1 24331 | 093905 | Disconnecter, Module |
| F2 | C60N 1P C3 24395 | 084454 | Disconnecter, Module |
| 1M, 2M, 3M | LC1 D4011 B7 | -- | Contactora |
| Pp | 40.52.8.024.00.00 | 090354 | Relay, Finder |
| TDR | LADS2 | 084037 | Relay, Time |
| P1 | M22 | 090452 | Button, START-STOP |
| P2, P3 | XALJ174F | E22703-P | Switch Assembly, Emergency Stop |
| P6 | XB4BS542 | 086556 | Switch Assembly, Emergency Stop |
| L1 | M22 | 090448 | Lamp, Control |
| M1 | Sg132S- 2PC HM SG160 M2B HM | 088049-2 087929-2 | 15 KM Motor, Electric 20 KM Motor, Electric |
| W1 | GSCA 01S1 | 088407 | Switch, Limit |
| W2 | EVN2000C | 089816 | Switch, Limit |

| Component List - EE25 | | | |
|------------------------------|----------------------|----------------------------|---------------------------------|
| Item | Mfg. Part No. | Wood-Mizer Part No. | Description |
| Tr | TMM63/A | 094487 | Transformer 230,400/25V |
| Q | ABB OT32E3 | 088265 | Disconnecter |
| GZ | GV3 ME40 | 090436 | Disconnecter, Motor |
| F1 | C60N 2P C1 24331 | 093905 | Disconnecter, Module |
| F2 | C60N 1P C1 24395 | 084454 | Disconnecter, Module |
| 1M, 2M | LC1 D25 B7 | 090923 | Contactora |
| 3M | LC1 D18 B7 | 084306 | Contactora |
| TDR | LADS2 | 084037 | Relay, Time |
| P1 | M22 | 090452 | Button, START-STOP |
| P2, P3 | XALJ174F | E22703-P | Switch Assembly, Emergency Stop |
| P6 | XB4BS542 | 086556 | Switch Assembly, Emergency Stop |
| L1 | M22 | 090448 | Lamp, Control |
| M1 | Sg160ML2 HM | 096622 | 25 KM Motor, Electric |
| W1 | GSCA 01S1 | 088407 | Switch, Handle Stop |
| W1 | GSCA 01S1 | 088407 | Switch, Limit |
| W2 | EVN2000C | -- | Switch, Limit |
| W2 | EVN2000C | 089816 | Switch, Limit |

7.4 Component Layout Diagram (EE20)



TBCE01

FIG. 7-4

7.5 Component Layout Diagram (EE25)

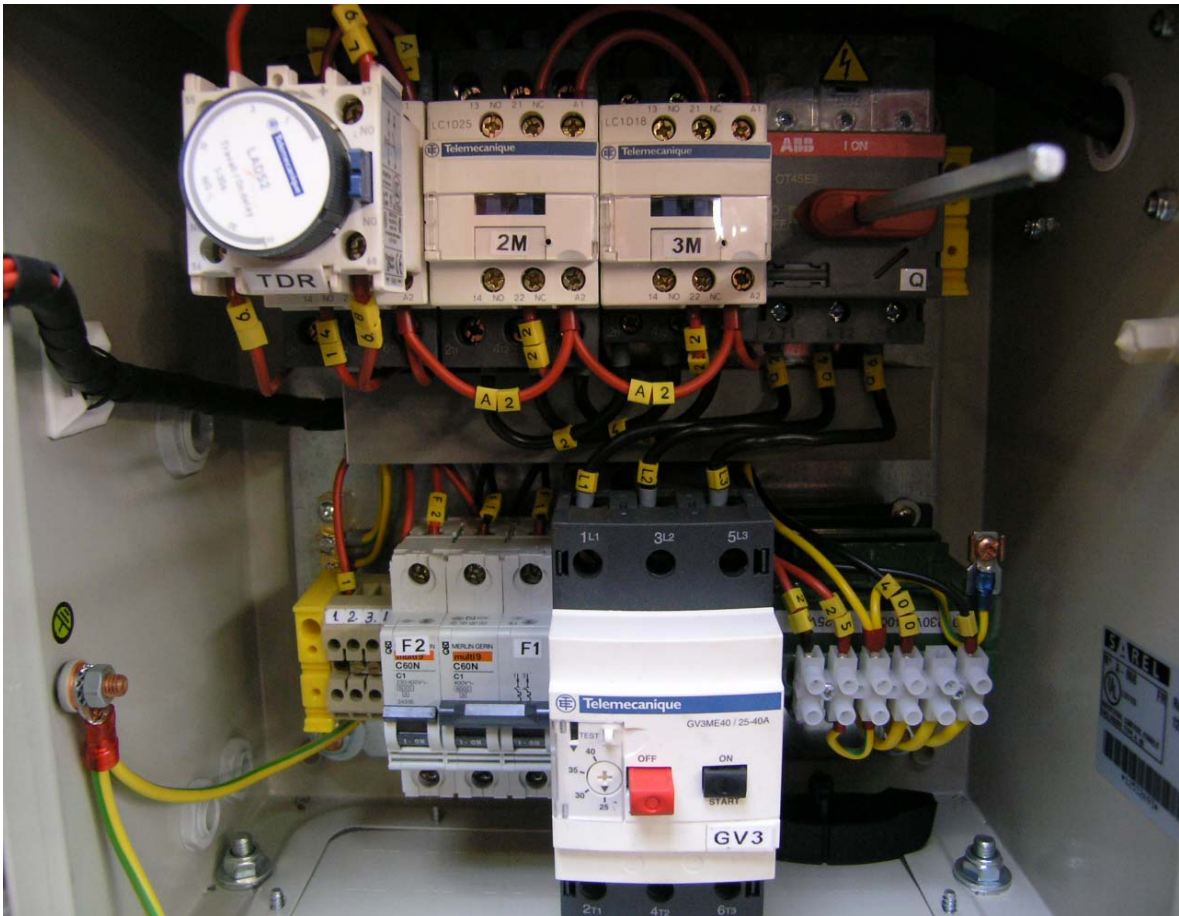
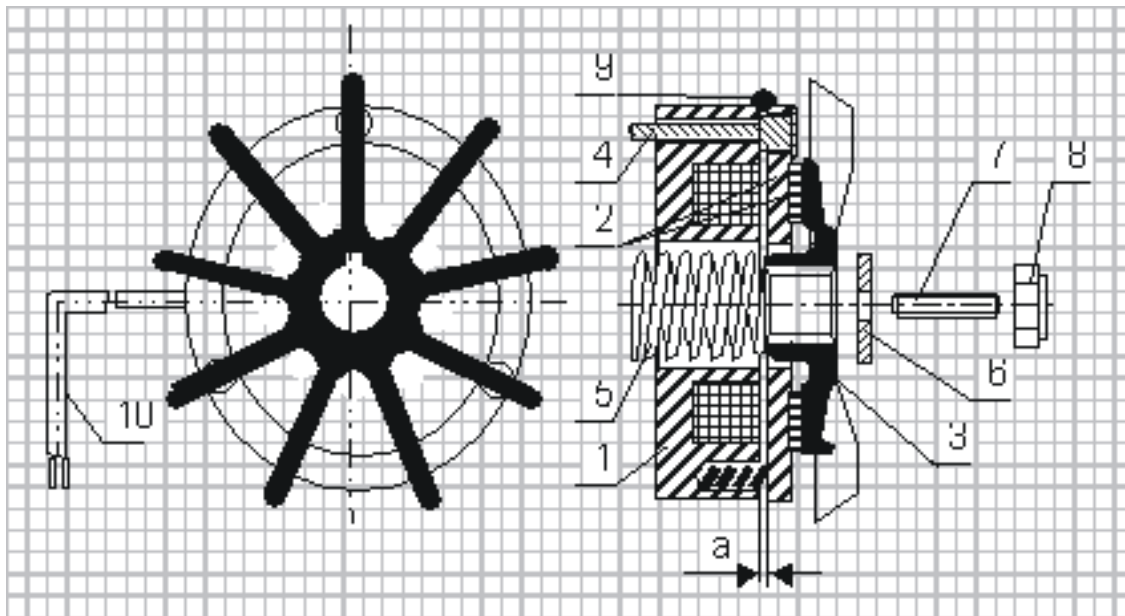


FIG. 7-5

SECTION 8 DC ELECTROMAGNETIC BRAKE



- 1 - Electromagnet,
- 2 - Armature complete with brake linings,
- 3 - Fan,
- 4 - Retaining bolt
- 5 - Central spring,
- 6 - Special washer,
- 7 - Set screw,
- 8 - Self-locking nut,
- 9 - Sealing ring,
- 10 - Output cable.

8.1 Design and principle of operation

The DC electromagnetic brake type H consists of 3 main subassemblies:

- electromagnet (1),
- armature complete (2)
- cast iron fan (3).

Electromagnet (1) energised: The DC voltage from the motor applied via the rectifying circuit causes the attraction of the armature (2) releasing the brake and thus the fan (3) is free to rotate.

Electromagnet (1) de-energised: The electromagnet stops to attract the armature (2) and spring presses the armature with brake linings (2) against the fan and the brake is thus applied.

8.2 Service

During normal operation and at the routine inspections verify the air gap and check if all screws are tight. In case when any symptoms of inefficient braking are observed, then use the self-locking nut (8) to re-adjust the air gap to the value corresponding to Table 1.

Such readjustment may be repeated until the brake linings are completely worn out. When this will occur, a complete armature with brake linings (2) must be replaced.

If the air gap of the brake is correctly adjusted and despite of it the brake does not operate properly (the brake fails to release), it may be caused by:

- the electromagnet (1): burned coil or defected output cable (10),
- rectifying circuit (installed in the electric motor terminal box).

The above mentioned subassemblies should be checked and defected part replaced.

Table 1:

| TYPE | H-63 | H-71 | H-80 | H-90 | H-100 | H-112 | H-132 | H-160 |
|-----------------|--------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| Nominal Gap „a” | 0.2 ±0,05 | 0.2 ±0,05 | 0.2 ±0,05 | 0.2 ±0,05 | 0.2 ±0,1 | 0.2 ±0,1 | 0.2 ±0,1 | 0.2 ±0,1 |

EC declaration of conformity according to EC Machinery Directive 2006/42/EC

We herewith declare,

Wood-Mizer Industries sp. Z O.O.
114 Nagorna street, 62-600 Kolo; Poland.

That the following described machine in our delivered version complies with the appropriate basic safety and health requirements of the EC Machinery Directive 2006/42/EC based on its design and type, as brought into circulation by us. In case of alteration of the machine, not agreed by us, this declaration is no longer valid.

| | |
|--|---|
| Designation of the machine: | Edger Multirip |
| TYPE: | EE25S-EMR |
| No. of manufacturer: | |
| Applicable EC Directives: | EC Machinery Directive 2006/42/EC EC Low-Voltage Directive 2006/95/EC EC Electromagnetic Compatibility Directive 2004/108/EC |
| Applicable Harmonized Standards: | EN ISO 12100 : 2009; EN ISO 13857 : 2008; EN 847-1 : 2007; EN 1870-4 : 2009 ; EN 60204-1 : 2007. |
| Notified Body according to annex IV : | PZ.LSV; Pruf- und Zertifizierungsstelle des Spitzenverbandes der landwirtschaftlichen Sozialversicherung |
| Notification No: | 2157 |
| Responsible for: | EC type examination |
| EC type-examination certificate no. | LSV-EG-2009/103 |
| Responsible for Technical Documentation: | Roman Frontczak / R&D Director |
| Date/Authorized Signature: | 29. 12. 2009  |
| Title: | R&D Director |