



## 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 | Navodila  
za uporabo

Retain for future use  
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  
Behall för framtida användning  
Uchovejte pro další použití  
Hranite za prihodnjo uporabo



# **Wood-Mizer®**

## **Edger**

### **Safety, Operation, Maintenance and Replacement Parts**

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**EG800EH40S**

**rev. A2.00**

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

*Form #810*

**This is the original language  
for the manual.**

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## Getting Service

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.

### *General Contact Information*

From Europe call your local distributor or our European Headquarters and Manufacturing Facility in Koło, Nagórna 114 St, Poland at **+48-63-2626000**. From the continental U.S., call our U.S. Headquarter 8180 West 10th St. Indianapolis, IN 46214, toll-free at **1-800-525-8100**. Ask to speak with a Customer Service Representative. Please have your machine 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 machine. He also can schedule you for a service call.

### Office Hours:

Country	Monday - Friday	Saturday	Sunday
Poland	7 a.m.- 3 p.m.	Closed	Closed
US	8 a.m.- 5 p.m.	8 a.m.- 12 p.m	Closed

Please have your vehicle identification number and your customer number ready when you call.

Wood-Mizer will accept these methods of payment:

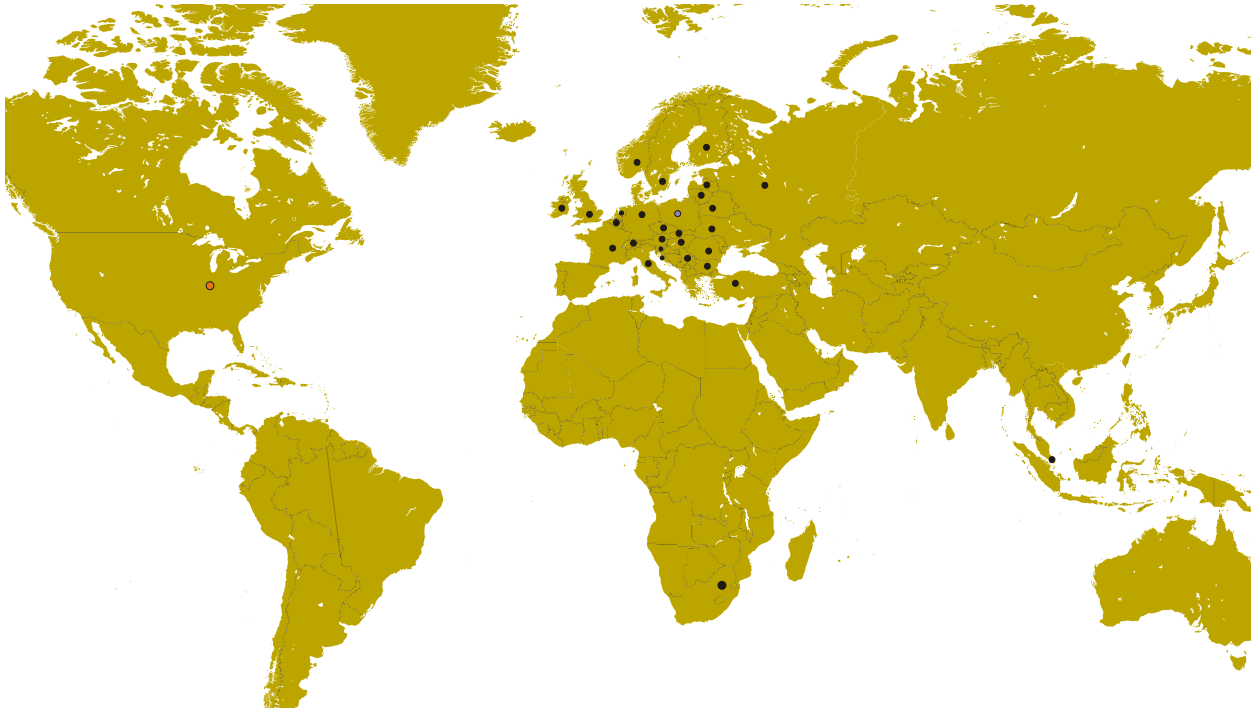
- Visa, Mastercard, or Discover
- COD
- Prepayment
- Net 15 (with approved credit)



Be aware that shipping and handling charges may apply. Handling charges are based on size and quantity of order.

Technical data are subject to change without prior notice.

Actual product may differ from product images. Some illustrations show machines with optional equipment.

Branches & Authorized Sales Centers Wood-Mizer Locations (North and South America)



EUROPE		UNITED STATES
<p> <b>European Headquarters</b>  <b>Wood-Mizer Industries Sp. z o.o.</b>                      Nagórna 114, 62-600 Kolo, Poland                      Tel.: +48-63-26-26-000                      Fax: +48-63-27-22-327  <a href="http://www.woodmizer.eu">www.woodmizer.eu</a></p>		<p> <b>World Headquarters</b>  <b>Wood-Mizer LLC</b>                      8180 West 10th Street                      Indianapolis, Indiana 46214-2400, USA                      Tel.: +1-317-271-1542                      Fax: +1-317-273-1011  <a href="http://www.woodmizer.com">www.woodmizer.com</a></p>
<p><b>BELARUS</b>  <b>MOST-GRUPP</b>                      Siemashko 15, k.3                      Minsk 2200116                      Tel.: +375-17-270-90-08                      Fax: +375-17-270-90-08                      GSM: +375-29-649-90-80                      e-mail: <a href="mailto:most-by@mail.ru">most-by@mail.ru</a></p>	<p><b>SWITZERLAND Stefan Wespí</b>                      Maschinen u. Geräte                      Spezialarbeiten GmbH                      Eichstraße 4                      6353 Weggis                      Tel.: +41-(0)41 - 3900312                      GSM: +41-(0)79 - 9643594  <a href="mailto:info@mobilsaegen.ch">info@mobilsaegen.ch</a></p>	<p><b>RUSSIA Dariusz Mikołajewski</b>  <b>OOO WOOD-MIZER INDUSTRIES</b>                      141031, Moscow                      Reg., Mytishenski raj., pos. Veshki,                      Zavodskaja str., 3B                      Tel.Fax: +7(495) 788-72-35                      Tel.Fax: +7(495) 641-51-60                      e-mail: <a href="mailto:dariuszm@woodmizer-moscow.ru">dariuszm@woodmizer-moscow.ru</a></p>
<p><b>BULGARIA Kalin Simeonov</b>  <b>Ecotechproduct</b>                      38 Star Lozenski pat str.                      Sofia 1186                      Tel.: +359-2-462-7035                      Tel.: +359-2-963-1656                      Tel./Fax                      : +359-2-979-1710  <b>Kalin Simeonov</b>                      GSM: +3592-963-2559                      e-mail: <a href="mailto:office@ecotechproduct.com">office@ecotechproduct.com</a></p>	<p><b>HUNGARY Wiktor Turoczy</b>  <b>Wood-Mizer Hungary K.F.T.</b>                      Szonyi Ut 67., 2921 Komárom                      Tel./Fax: +36-34-346-255                      e-mail: <a href="mailto:woodmizer@woodmizer.hu">woodmizer@woodmizer.hu</a></p>	<p><b>RUSSIA Far East Wladimir Glazaczew</b>  <b>"WM Service"</b>                      Krasnoretchenskaya Str.111                      680006 Khabarovsk                      Tel./Fax: +7-914-541-1183                      e-mail: <a href="mailto:wms-khv@mail.ru">wms-khv@mail.ru</a></p>

<p><b>CROATIA Krešimir Pregernik Pregimex d.o.o.</b> S. Batušićeva 31, 10090 Zagreb Tel./Fax: +3851-38-94-668 <b>Krešimir Pregernik</b> GSM: +3851-98-207-106 e-mail: <a href="mailto:Kresimir.Pregernik@gmail.com">Kresimir.Pregernik@gmail.com</a></p>	<p><b>ITALY Pasquale Felice Wood-Mizer Italia Srl Cda. Capoiaccio SN</b> 86012 Cercemaggiore Campobasso Tel./Fax: +39-0874-798-357 GSM: +39-333-281-03-79 e-mail: <a href="mailto:wmitaliasrl@gmail.com">wmitaliasrl@gmail.com</a></p>	<p><b>SERBIA Dragan Markov Wood-Mizer Balkan d.o.o.</b> Svetosavska GA 3/3; P. Fah 25 23 300 Kikinda Tel./Fax: +381-230-25-754 Tel./Fax: +381-230-23-567 GSM: +381-63-568-658 e-mail: <a href="mailto:office@woodmizer.co.yu">office@woodmizer.co.yu</a></p>
<p><b>CZECH REPUBLIC Miroslav Greill Wood-Mizer CZ s.r.o.</b> Osvaldova 91 339 01 Klatovy-Luby Tel./Fax: +420-376-312-220 Fax: +420-376-319-011 <b>Miroslav Greill</b> GSM: +420-723-580-799 e-mail: <a href="mailto:greill@woodmizer.cz">greill@woodmizer.cz</a></p>		<p><b>SLOVAKIA Wiktor Turoczy Wood-Mizer Danubia s.r.o.</b> Hadovce 5, 94501 Komárno Tel.: +421-35-77-40-316 Fax: +421-35-7740-326 GSM: +421-905-930-972 e-mail: <a href="mailto:woodmizer@woodmizer.sk">woodmizer@woodmizer.sk</a></p>
<p><b>CZECH REPUBLIC Lubomir Kudlik Wood-Mizer Moravia</b> Sovadinova 6 69002 Breclav Tel./Fax: +420-519-322-443 <b>Lubomir Kudlik</b> GSM: +420-602-734-792 e-mail: <a href="mailto:info@wood-mizer.net">info@wood-mizer.net</a></p>	<p><b>LATVIA Vilmars Jansons OBERTS Ltd</b> Gaujas str. 32/2 LV-2167 Marupe, Rigas Raj. Tel.: +371-7-810-666 Fax: +371-7-810-655 <b>Vilmars Jansons</b> GSM: +371-92-06-966 <b>Andris Orols</b> GSM: +371-28-33-07-90 e-mail: <a href="mailto:andris@oberts.lv">andris@oberts.lv</a></p>	<p><b>TURKEY Er-Ka Ahsap Profil Kerestecilik San. ve Tic. Ltd. Sti.</b> Adana Keresteciler Sitesi 191 sk No.41 ADANA Tel.: +90-322-346-15-86 Fax: +90-322-345-17-07 GSM: +90-533-363-18-44 e-mail: <a href="mailto:info@erkaahsap.com.tr">info@erkaahsap.com.tr</a></p>
<p><b>FINLAND Howard Blackbourn Oy Falkberg Jordbruk Ab</b> Falkintie 220 25610 Ylonkyla Tel.: +358-2732-2253 Fax: +358-2732-2263 <b>Howard Blackbourn</b> GSM: +358-440-424-339 e-mail: <a href="mailto:falkberg@woodmizer.fi">falkberg@woodmizer.fi</a></p>	<p><b>LITHUANIA Andrius Zuzevicius UAB Singlis</b> Savanoriu pr. 187, 2053 Vilnius Tel.: +370-5-2-32-22-44 Fax: +370-5-2-64-84-15 GSM: +370-620-28-645 e-mail: <a href="mailto:andrius.z@singlis.lt">andrius.z@singlis.lt</a></p> <p><b>Dmitrij Gaiduk</b> GSM: +370-69-84-51-91 e-mail: <a href="mailto:dmitrijus.g@singlis.lt">dmitrijus.g@singlis.lt</a></p>	<p><b>UKRAINE Ivan Vinnicki MOST UKRAINA</b> bul. Myru 3, Bajkivtsi Ternoplskyj r-j Ternopolska oblast 47711 Ukraine Tel/Fax: +38 (0352) 52 37 74 GSM: +38 (067) 352 54 34 GSM: +38 (067) 674 50 68 E-mail: <a href="mailto:most-ukraina@ukr.net">most-ukraina@ukr.net</a></p>
<p><b>FRANCE Tizoc Chavez Wood-Mizer France</b> 556 chemin des Embouffus, ZAC des Basses Echarrieres 38440 SAINT JEAN DE BOURNAY Tel: +33-4 74 84 84 44 GSM: +33-607 52 02 82 Mail: <a href="mailto:tchavez@woodmizer.fr">tchavez@woodmizer.fr</a></p>	<p><b>NORWAY Odd Edvoll Wood-Mizer Nordic AS</b> Vardelia 17, 2020 Skedsmokorset Tel.: +47-63-87-49-89 Fax: +47-63-87-37-66 GSM: +47-930-42-335 e-mail: <a href="mailto:odd.edvoll@woodmizer.no">odd.edvoll@woodmizer.no</a></p> <p>e-mail: <a href="mailto:firmapost@woodmizer.no">firmapost@woodmizer.no</a></p>	<p><b>UNITED KINGDOM &amp; IRELAND Wood-Mizer UK</b> Hopfield Barn Kenward Road, Yalding Kent ME18 6JP, UK Tel.: +44-1622-813-201 Fax: +44-1622-815-534 e-mail: <a href="mailto:info@woodmizer.co.uk">info@woodmizer.co.uk</a></p>
<p><b>SLOVENIA Jan Fale FAMTEH d.o.o.</b> Gacnikova pot 2, 2390 Ravne na Koroskem Tel.: +386-2-62-04-232 Fax: +386-2-62-04-231 <b>Jan Fale</b> GSM: +386-2-62-04-230 e-mail: <a href="mailto:jan.fale@famteh.si">jan.fale@famteh.si</a></p> <p><b>Matjaz Kolar</b> Tel.: +386-2-62-04-232 GSM: +386-31-775-999 e-mail: <a href="mailto:matjaz.kolar@famteh.si">matjaz.kolar@famteh.si</a></p>		

<p><b>GERMANY Klaus Longmuss</b>  <b>Wood-Mizer Sägewerke GmbH</b>                  Dorfstraße 5, 29485 Schletau                  Tel.: +49-5883-9880-10                  Fax: +49-5883-9880-20                  e-mail: <a href="mailto:info@woodmizer.de">info@woodmizer.de</a></p> <p><b>Klaus Longmuss</b>                  Tel.: +49-5883-9880-12                  GSM: +49-17-298-55-892                  e-mail: <a href="mailto:KLongmuss@woodmizer.de">KLongmuss@woodmizer.de</a></p>	<p><b>Subagent:</b>  <b>SWEDEN Kjell Larsson</b>  <b>Mekwood AB</b>                  Slingan 14, 812 41 Gästrike-Hammarby                  Tel.: +46-290-515-65  <b>Kjell Larsson</b>                  GSM: +46-706-797-965                  e-mail: <a href="mailto:kjell.larsson@mekwood.se">kjell.larsson@mekwood.se</a></p>	<p><b>IRELAND</b>  <b>Wood-Mizer Ireland</b>                  Stephen Brennan                  Cum Lahardane Ballina County Mayo                  Tel:+353 96 51345</p> <p>E-mail: <a href="mailto:brennanmill@ericom.net">brennanmill@ericom.net</a></p>
<p><b>Subagents:</b>  <b>DENMARK Brian Jensen</b>                  Arnborgvej 9, 7330 Brande- Fasterholt                  Tel.: +45-971-88-265                  Fax: +45-971-88-266</p> <p><b>Brian Jensen</b>                  GSM: +45-23-49-5828                  e-mail: <a href="mailto:Fasterholt-Savvaerk@Mail.Tele.dk">Fasterholt-Savvaerk@Mail.Tele.dk</a></p>	<p><b>ROMANIA Adrian Echert</b>  <b>SC WOOD-MIZER RO SRL</b>                  TRANSILVANIEI Nr. 5                  Sibiu, Cisnădie 555300                  Tel./Fax: : +40-369-405-433                  GSM: +40-745-707-323                  e-mail: <a href="mailto:aechert@woodmizer.ro">aechert@woodmizer.ro</a></p>	<p>Regional Manager - Asia                  Wood-Mizer Asia Pte Ltd.                  James Wong                  Tel: +65 81216910                  Fax: +65 6283 8636                  WWW: <a href="http://www.woodmizerasia.com">www.woodmizerasia.com</a>                  E-mail: <a href="mailto:jwong@woodmizerasia.com">jwong@woodmizerasia.com</a></p>
<p><b>Netherlands Chris Dragt</b>                  Lange Brink 77d,                  7317 BD Apeldoorn                  Tel.: +31-55312-1833                  Fax: +31-55312-2042                  e-mail: <a href="mailto:Info@dragtbosbouw.nl">Info@dragtbosbouw.nl</a></p>	<p><b>Subagent:</b>  <b>ROMANIA M. Echert</b>  <b>S.C. Echert Comprod s.r.l</b>                  Str. Schitului Nr. 6, Apt.7 etajul-1                  725 70 Vatra Dornei, Romania                  Tel./Fax: +40-230-374-235                  Tel. : +40-740-35-35-74</p>	<p>Regional Manager - Africa                  Wood-Mizer Africa                  Jean-Jacques Oelofse                  UNIT 3, LEADER PARK, NO: 20 CHARIOT ROAD                  STORMILL, EXT 5, Roodepoort,                  Johannesburg                  Tel: +27 011 473 1313                  Fax: +27 011 473 2005                  Jean-Jacques Oelofse E-mail:  <a href="mailto:jjoelofse@woodmizer africa.com">jjoelofse@woodmizer africa.com</a>                  Jean-Jacques Oelofse                  Skype:jean.jacques.pierre.oelofse</p>

### USA World Headquarters

*Serving North & South America, Oceania, East Asia*

Wood-Mizer LLC  
 8180 West 10th Street  
 Indianapolis, IN 46214

Phone: 317.271.1542 or 800.553.0182  
 Customer Service: 800.525.8100  
 Fax: 317.273.1011  
 Email: [infocenter@woodmizer.com](mailto:infocenter@woodmizer.com)

### Canadian Headquarters

*Serving Canada*

Wood-Mizer Canada  
 396 County Road 36, Unit B  
 Lindsay, ON K9V 4R3

Phone: 705.878.5255 or 877.357.3373  
 Fax: 705.878.5355  
 Email: [ContactCanada@woodmizer.com](mailto:ContactCanada@woodmizer.com)

### Brazil Headquarters

*Serving Brazil*

Wood-Mizer do Brasil  
 Rua Dom Pedro 1, No: 205 Bairro: Sao Jose  
 Ivoti/RS CEP:93.900-000

Tel: +55 51 9894-6461/ +55 21 8030-3338/ +55 51  
 3563-4784  
 Email: [info@woodmizer.com.br](mailto:info@woodmizer.com.br)

### Europe Headquarters

*Serving Europe, Africa, West Asia*

Wood-Mizer Industries Sp z o.o.  
 Nagorna 114  
 62-600 Kolo, Poland

Phone: +48.63.26.26.000  
 Fax: +48.63.27.22.327

### Branches & Authorized Sales Centers

For a complete list of dealers, visit [www.woodmizer.com](http://www.woodmizer.com)



## **SECTION 1 SERVICING THE EDGER**

### **1.1 Safety & General Information**

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.

The present documentation contains information that should be used when preparing the machine for operation, working with it and when servicing or repairing it, as well.

The EG800 Edger is intended for sawing wood only. See Section Specifications for log size capacities of the machine. The machine must not be used for any other purposes such as cutting ice, metal or any other materials.

Using the machine correctly, you will obtain a high degree of accuracy and efficiency.

The Edger should be operated only by an adult (over 18 year old) who has read and understood the entire operator's manual. The Edger is not intended for use by or around children.

The machine is built to be durable and easy to operate and maintain.

### **1.2 If You Need To Order Parts**

From Europe call our European Headquarters and Manufacturing Facility in Kolo, Nagórna Street, Poland at **+48-63-2626000**. 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.

### **1.3 Customer and Edger Identification**

Each Wood-Mizer Edger has its own serial number. In addition, when you pick up your edger, you will receive a customer number. These two numbers will help expedite our service to you. Please locate them now and write them below so you have quick, easy access to them.

# 1 Servicing The Edger

## If You Need Service

See Figure 1-1 An identification plate of the E100 Edger is described below.

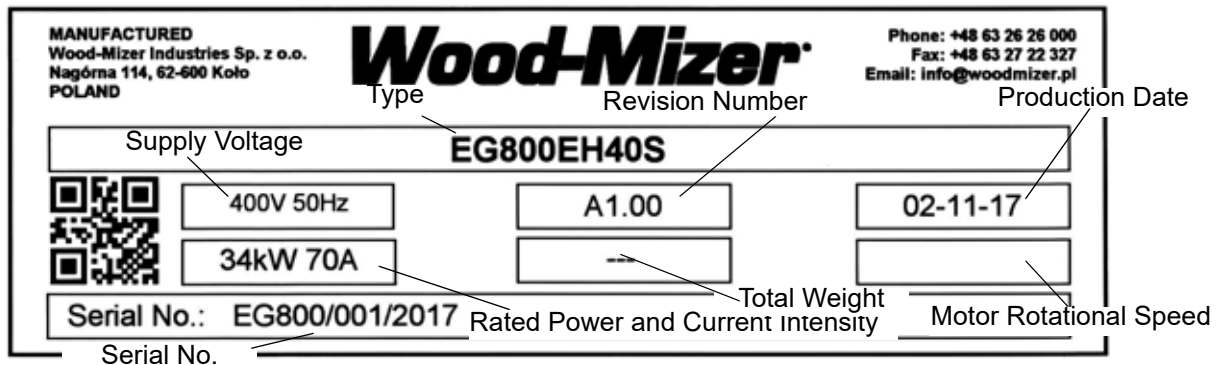


FIG. 1-1

See Figure 1-2 See the following figures for the serial number location.

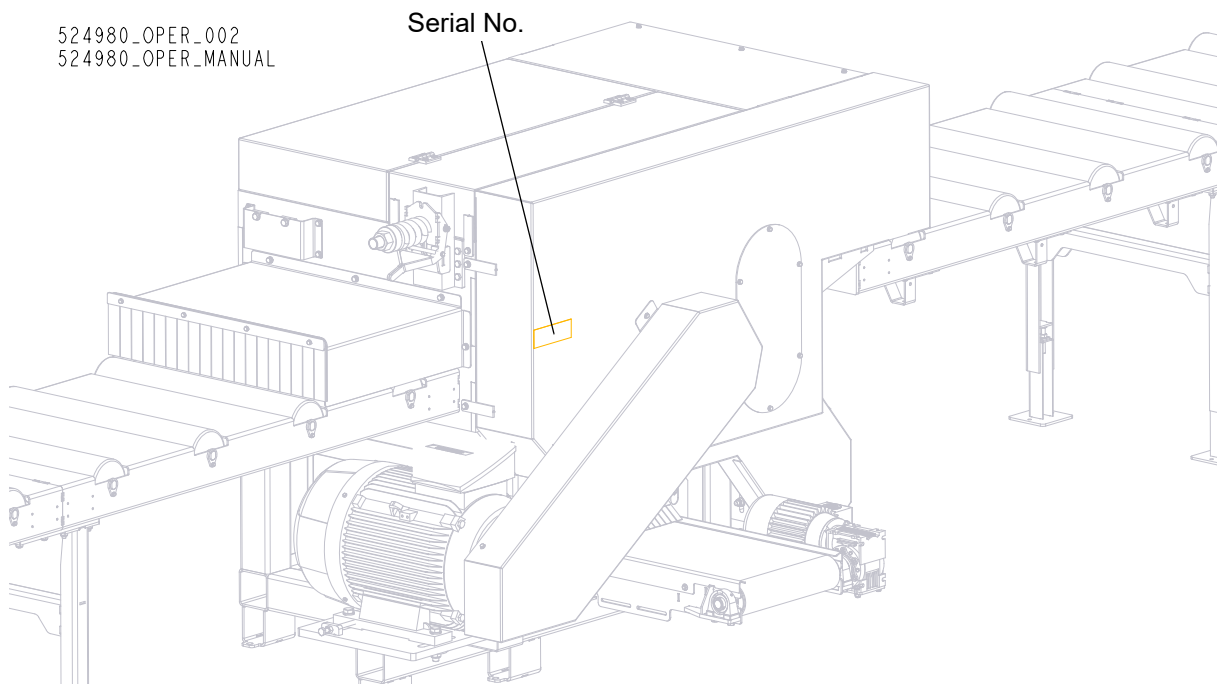


FIG. 1-2

## 1.4 If You Need Service

From Europe call our European Headquarters and Manufacturing Facility in Kolo, Nagórna Street, Poland at **+48-63-2626000**. Ask to speak with a Customer Service Representative. Please have the 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 moulder. He also can schedule you for a service call.

### Office Hours:

Country	Monday - Friday	Saturday	Sunday
Poland	8.00 am - 04:30 pm	Closed	Closed

## 1.5 EG800 Edger Components

See Figure 1-3 The major components of the EG800 Edger are shown below.

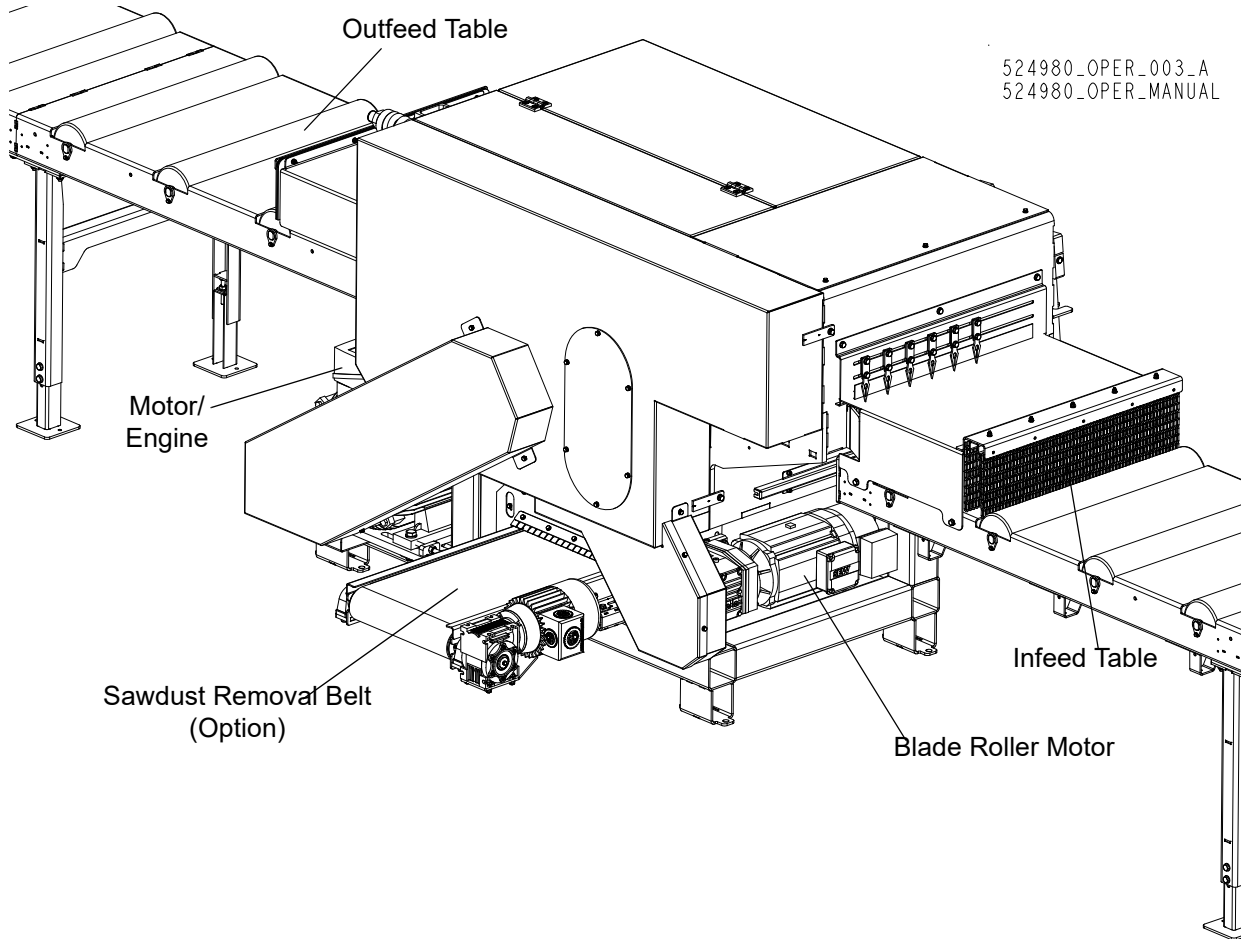




FIG. 1-3 EG800


## SECTION 2 SAFETY


### 2.1 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 to persons or 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.

### 2.2 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 owner's responsibility to comply with all applicable federal, state and local laws, rules and regulations regarding the ownership and operation 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 the Edger.

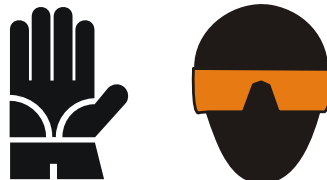


### Wear Safety Clothing



**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 safety goggles and gloves when replacing the blade. Changing blades is safest when done by one person! Keep all other persons away from work area when changing a blade. Failure to do so may result in serious injury.



**WARNING!** Always wear protective gloves (compatible with EN 388, Category III) and protective apron (compatible with EN ISO 13688:2013-12, kategorie I) when operating the machine.

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



### 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 may result in serious injury.

### Dispose of sawing by-products properly



**IMPORTANT!** Always properly dispose of all sawing by-products, including sawdust and other debris.

**CAUTION!** The Edger's work-stand should be equipped with a 4 kg or bigger dry powder extinguisher.

### Check Edger before operation



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



**WARNING!** Always turn off the motor 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 motor/engine drive belts with the machine 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 the anti-kickback fingers are free from obstruction and are in their downward position with the 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 may result in serious injury.

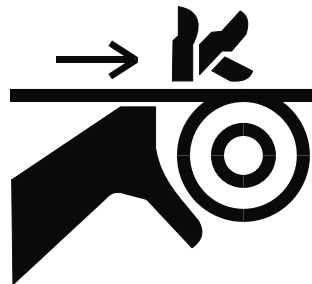
### Keep Hands Away



**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 motor. Allow the motor 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 the Edger. 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!** Always shut off the motor/engine and allow all moving parts to come to a complete stop before removing any guards or covers. Do NOT operate with any guard or cover 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 guards for the blades and drive are equipped with safety switches. As soon as you open the cover, the motor will get turned off and all moving parts will stop spinning. The safety switches should always be in proper working condition.

**IMPORTANT!** The cutting width setting system is equipped with two safety switches.

### **Use Proper Maintenance Procedures**



**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 Edger operation.



**WARNING!** Consider all electrical circuits energized and dangerous.

**WARNING!** Disconnect and lock out power supply before servicing! Failure to do so may result in serious injury.



**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!** The Edger is equipped with three emergency stop buttons: one at the front, second at the rear of the machine and the third one on the control panel. They are used to immediately stop the motor and/or the Edger in hazardous situations. The e-stop buttons should always be in proper working condition.



**WARNING!** Visible and/or invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation.



**WARNING!** No exchange with a different type of laser is permitted, and no additional optical equipment shall be used.



**DANGER!** Operator can not for any reason perform any laser maintenance or repair work. Repair shall only be carried out by the laser manufacturer or authorised persons.

***Keep Safety Labels In Good Condition***



**IMPORTANT!** Always be sure that all safety warning decals are clean and readable. Replace all damaged safety decals to prevent personal injury or damage to the equipment. Contact Wood-Mizer Customer Service or the Wood-Mizer distributor in your area to order a new decal.

**IMPORTANT!** If replacing a component which has a safety decal affixed to it, make sure the new component also has the safety decal affixed.

**Safety Labels Description**

See table 2-1 See the table below for descriptions of the safety labels placed on the machine.

**TABLE 2-1**

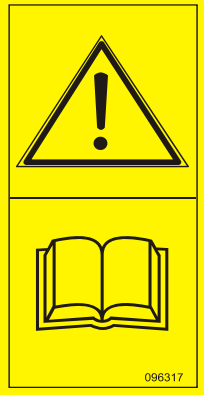

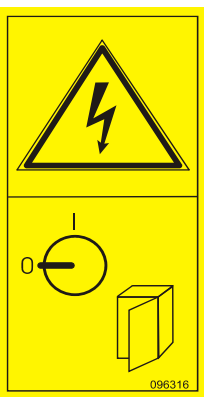
Decal View	Decal No.	Description
	096317	CAUTION! Read thoroughly the operator's manual before operating the Edger. Observe all safety instructions and rules when operating.
	099220	Close all guards and covers before starting the machine.
	096316	Do not open or close the electric box when the switch is <b>not</b> in the "0" position.

TABLE 2-1

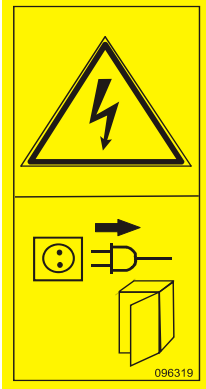










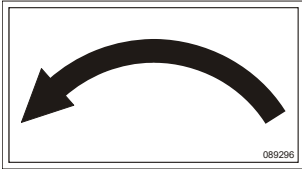
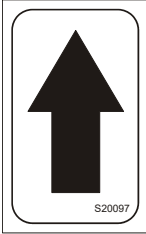
	<p>096319</p>	<p>Always disconnect the power cord before opening the electric box.</p>
	<p>099540</p>	<p>CAUTION! Toothed gear - keep persons away!</p>
	<p>524992</p>	<p>Decal, kickback hazard warning (pictogram)</p>
	<p>S12004G</p>	<p>Always wear safety goggles when operating the Edger.</p>

TABLE 2-1

	S12005G	Always wear protective ear muffs when operating the Edger.
	501465	Always wear safety boots when operating the edger!
	510080	Always wear protective gloves when operating the edger!
	539211	Always wear protective apron when operating the edger!
	501467	Lubrication point

**TABLE 2-1**

	<p>099504</p>	<p>Visible and/or invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation.</p>
	<p>P85070</p>	<p>CE safety certification</p>
	<p>089296</p>	<p>Rotation direction</p>
	<p>S20097</p>	<p>Motor rotation direction.</p>

**SECTION 3**

## 3.1 Operation

## 3.2 Pre-Operation Check

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

1. Make sure the Edger is level. Secure the edger to the ground. A concrete foundation and 12mm anchored bolts are recommended.



**CAUTION!** Make sure the edger is level before operation. Failure to do so can and will affect machine operation and wear life.

2. Make sure the tables are level with the rest of the Edger.

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



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

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



**WARNING!** In case of a drive belt break, wait until all rotating parts are completely stop. Failure to do so may result in serious injury or death.



**WARNING!** If edger is equipped with an optional sawdust removal belt, use extreme care not to trip over it.

See figure 3-1.



**WARNING!** Make sure anti-kickback levers (A) are in working position (in the notches located in the sheet (B)). Failure to do so may result in serious injury.

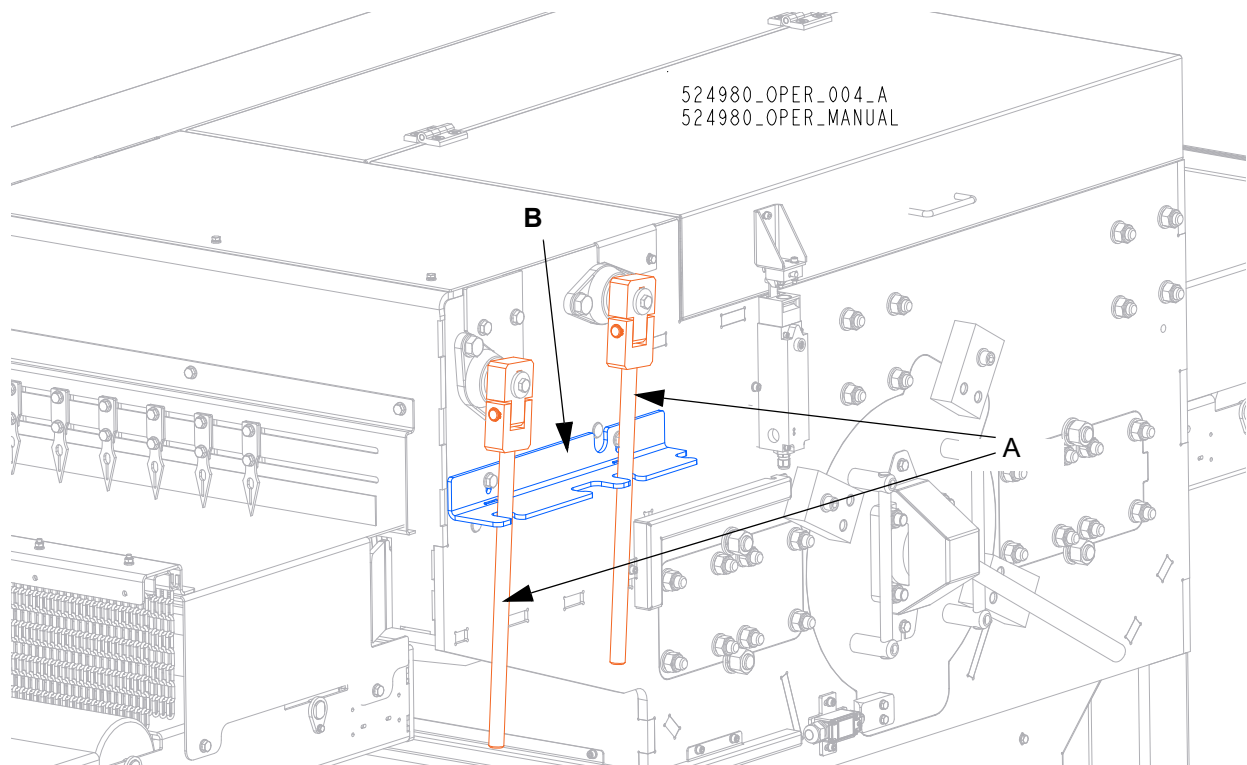


FIG. 3-1

3. 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 transporting the Edger. Failure to do so may result in serious injury.

4. Also be aware that the blades are spinning whenever the motor is ON. Always turn off the motor 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!** Always shut off the motor/engine and allow all moving parts to come to a complete stop before removing any guards or covers. Do NOT operate with any guard or cover removed.

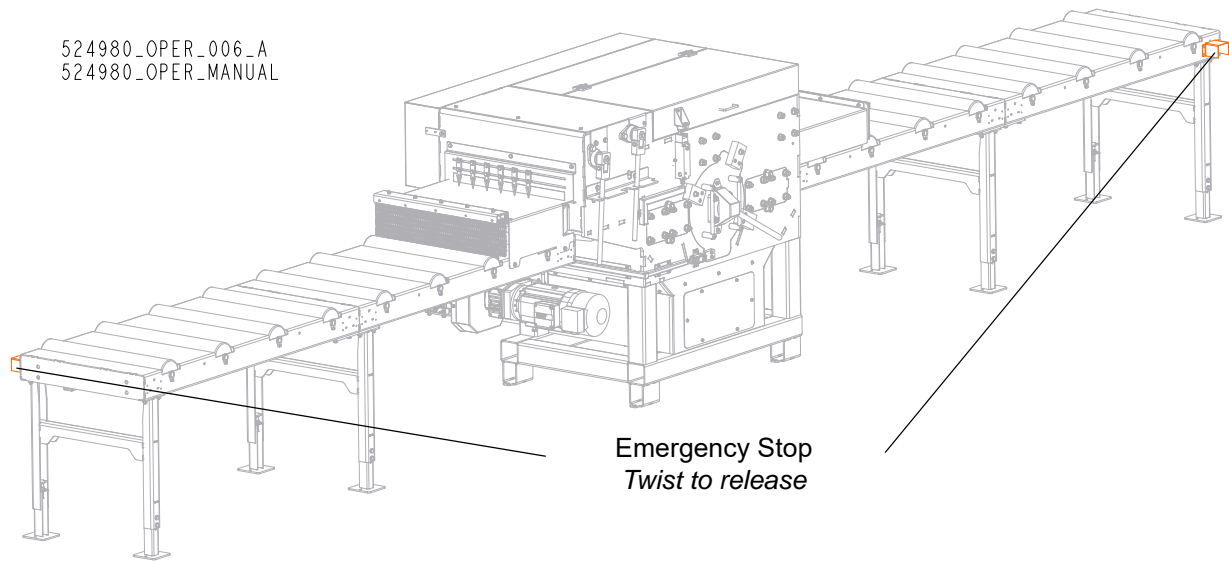
**WARNING!** Always turn off the motor to stop the blade whenever the Edger is not in use. Failure to do so may result in serious injury.



**IMPORTANT!** If at any time you need to immediately stop the motor and/or Edger operation, press the Emergency Stop button located on



the infeed table, outfeed table and on the control panel.



**FIG. 3-2 EG800 EMERGENCY STOP LOCATION**

### 3.3 Control Overview

#### Control Panel, EG800

See figure 3-3. The control panel includes: main switch (A), blade motor start-stop switch (B), power feed switch (C), feed rate knob (D) and emergency stop button (E).



FIG. 3-3 SWITCHES ON THE CONTROL PANEL

#### 1. Blade Drive

To turn the edger power on turn the main switch to the ON position. To turn the edger power off, turn the main switch to the OFF position.

#### 2. Blade motor start-stop switch

To start the blade motor press the START button. To stop the blade motor, press the STOP button.

#### 3. Power feed switch

To start the power feed motor, press the START button. To stop the power feed motor, press the STOP button.

#### 4. Feed Roller Speed Adjustment

The feed roller speed switch controls the speed at which the feed roller moves. Turn the switch right to increase the speed, turn left to reduce the speed.

#### 5. Emergency Stop

Push the emergency stop button to stop the blade and the track feed motors. Turn the emergency stop clockwise to release the stop. The machine will not restart until the emergency stop is released.

### 3.4 Edger Setup



**IMPORTANT!** Before starting to use the Edger you have to meet the following conditions:

- Set up the Edger on firm, level ground.
- Under roof, the Edger should always be operated with the sawdust collection system.
- The edger must not be operated outdoors when it is raining/snowing and in case of rain/snow the edger must be stored under a roof or indoors.
- The sawmill can be operated in temperature range from -15° C to 40° C only.
- Illuminance at operator's position must be 300lx.<sup>1</sup>
- The Edger's operator positions (two operators) is shown below.

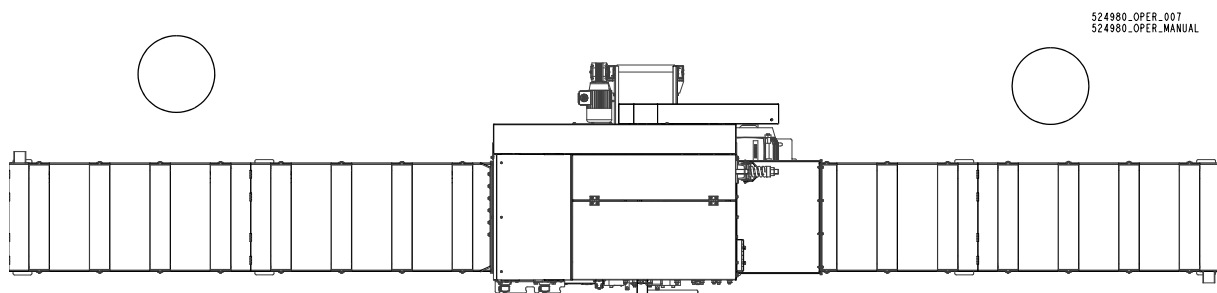


FIG. 3-4

- Have a qualified electrician install the power supply (according to EN 60204 Standard). The power supply must meet the specifications given in the table below.

3-Phase Volts	Fuse Disconnect bezpiecznikowy	Recommended Wire Size
---------------	-----------------------------------	-----------------------

TABELA 3-1

<sup>1</sup> The light source can not cause stroboscopic effect. (PN-EN 12464-1:2012)

400 VAC	C100	4 x16mm <sup>2</sup> , up to 15 m long
---------	------	--

TABELA 3-1



**IMPORTANT!** It is required that a 30mA Ground Fault Interrupter (GFI) be used.



**IMPORTANT!** When starting the machine for the first time, check that blade rotation direction is as indicated by the arrow located on the blades covers. If the rotation direction is incorrect, invert the phases in the phase inverter in the power socket (electric box). Setting the phases in the phase inverter correctly will ensure correct rotation directions of all sawmill motors.

- The Edger can be lifted using the forklift only. The forklift must be rated for at least 3000kg (4409lb.). Insert the forks into the pockets shown on the picture below.

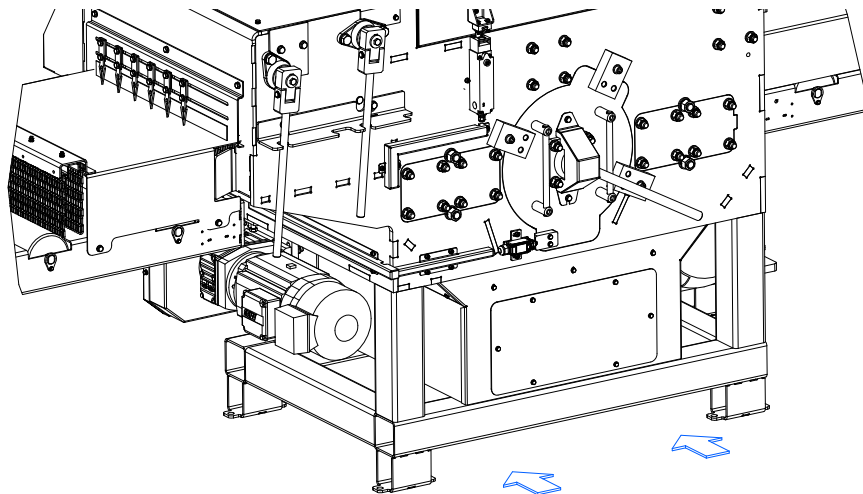


FIG. 3-5

## 3.5 Machine start



**DANGER!** Before starting the machine, perform these steps to avoid injury and/or damage to the equipment:

- Close the blade housing covers and replace any guards removed for service.
- Check the infeed table and remove all loose objects such as tools, wood, etc.
- Make sure all persons are a safe distance from the machine.
- Check that the emergency stops are released.

**NOTE:** The machine will not start if either of the emergency stops is on.

Before starting the blades, check that the main power switch on the electric box is on.

**See figure 3-6.**

1. To turn the Edger's power on, turn the main switch to the ON position.
2. Start the blade motors. To do this, push the START button on the control panel (see the figure below).

The motor should start.



**FIG. 3-6 SWITCHES ON THE CONTROL PANEL**

To stop the blade motor, press the STOP button shown on the figure above. The motor also may be stopped by pushing the emergency stop button.

The speed at which the feed rollers move is adjustable by dial located on the control panel, allows the operator to adjust the feed rate from 0 to ca. 40 m / 131 ft per minute.

Turn the switch clockwise to increase the feed rate, counterclockwise to slow the feed rate down.

**Factors that will determine what feed rate you can use include:**

- Material thickness.
- Hardness of material to be cut. Some woods that are seasoned or naturally very hard will require slower feed rates.
- Sharpness of blades. Dull or improperly sharpened blades will require slower feed rates than sharp and properly maintained blades.
- Off-bearing capability. Your ability to feed will also determine what feed rate you can use.

### 3.6 Board entry cover installation

- Install board entry cover (A) to infeed table (B) using fasteners (C) listed in EG800 Replacement Parts #811 [See Section 2.9 Board Enter Cover](#) .

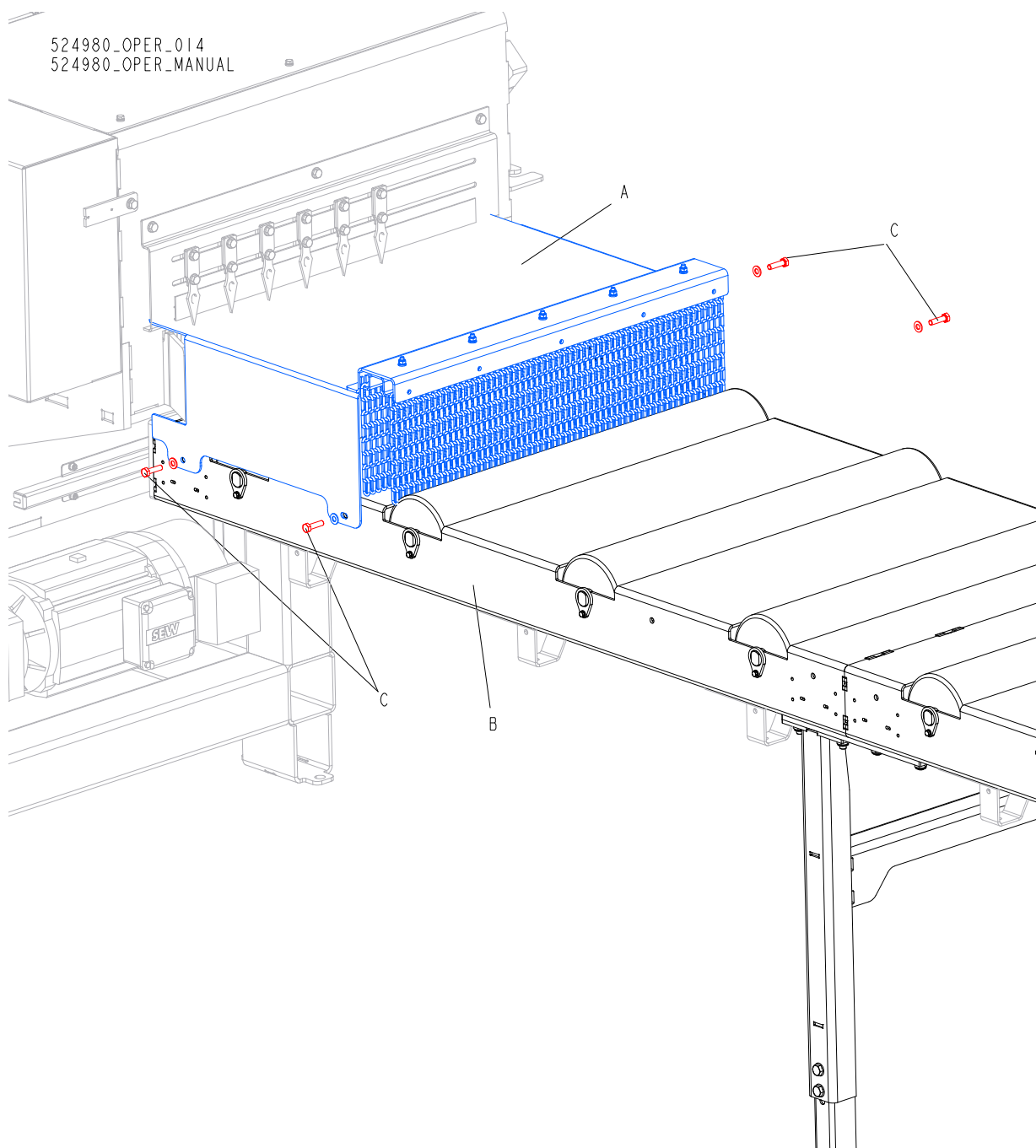


FIG. 3-7

## SECTION 4 MAINTENANCE AND ALIGNMENT



**WARNING!** Before performing service near moving parts such as blades, pulleys, motors, belts and chains, set the main switch in the "0" position and disconnect the power cord.



**WARNING!** Always shut off the motor 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!** Visible and/or invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation.



**DANGER!** The operator must not for any reason perform any service or repairs to the laser sight.



**WARNING!** Do not replace the factory-installed laser sight with any different laser sight, or mount any additional laser devices.

### 4.1. Rollers and Blades Cover

See Figure 4-1.

To Open the Cover:

1. Turn off the blade motors and wait until the solenoid interlock (A) is inactive. Then set the main switch in the "0" position and disconnect the power cord.



2. Move the blade housing (B) to access the blades and rollers.

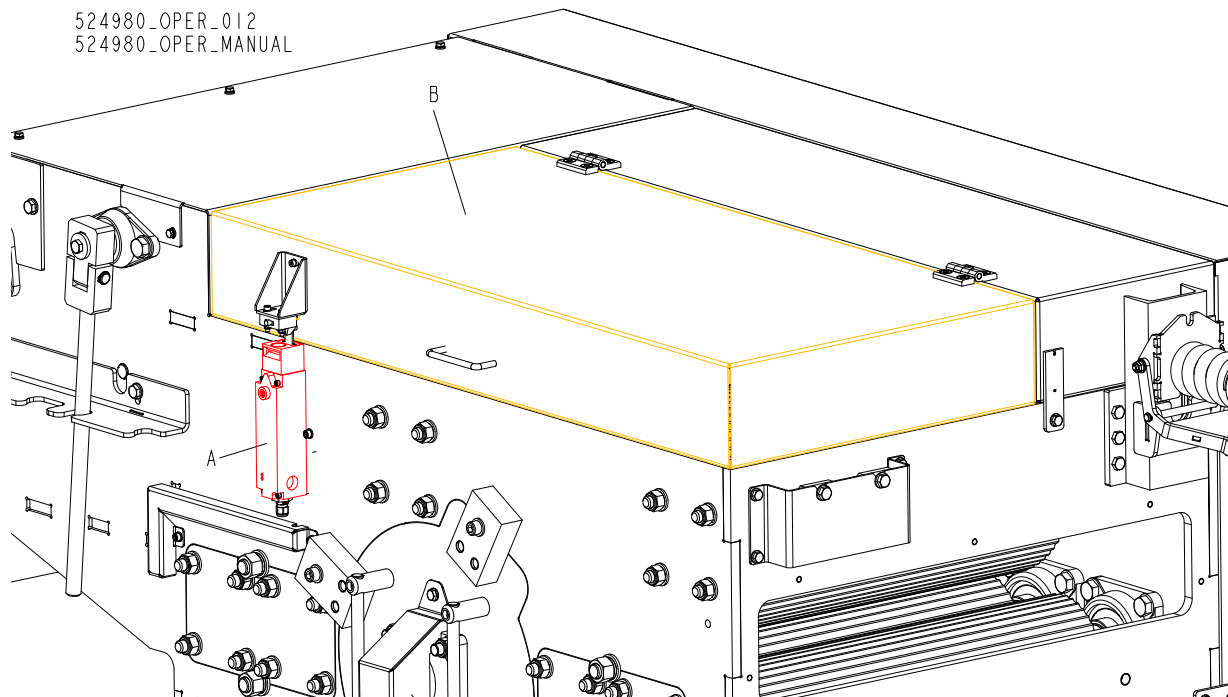




FIG. 4-1

## 4.2 Replacing and Aligning the Blades

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

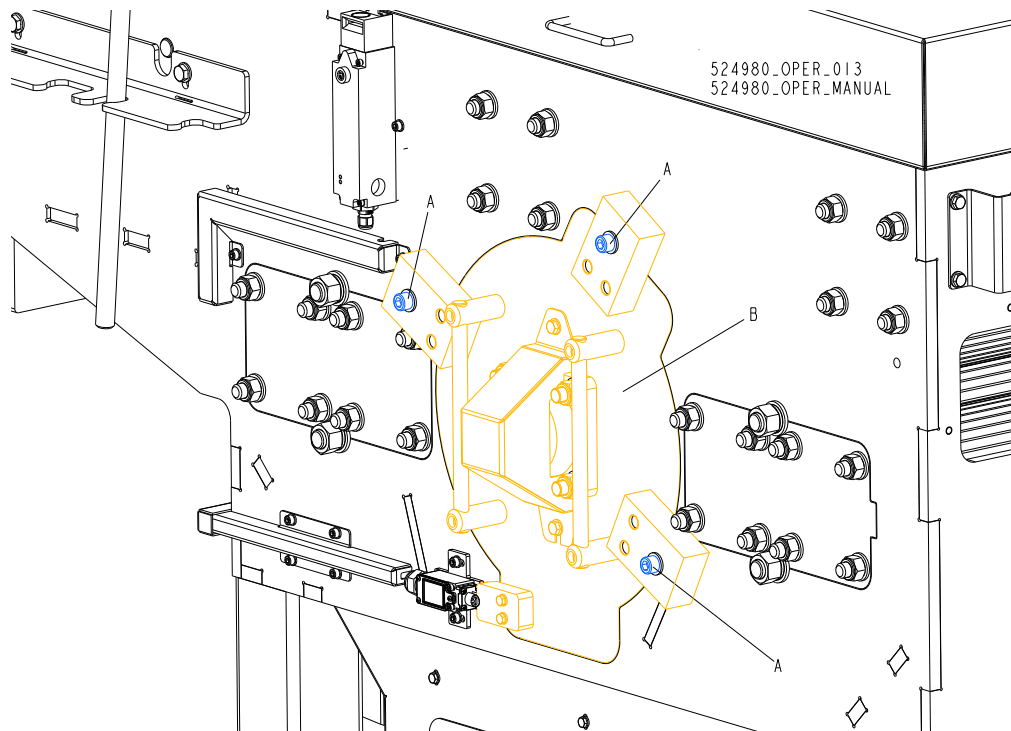
 **DANGER!** Before changing the blades, make sure all rotating parts have come to a complete stop and the motor is shut off completely. Turn the main switch to the "0" position and disconnect the power cord. Failing to do so can cause serious injury.

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

See Figure 4-2.

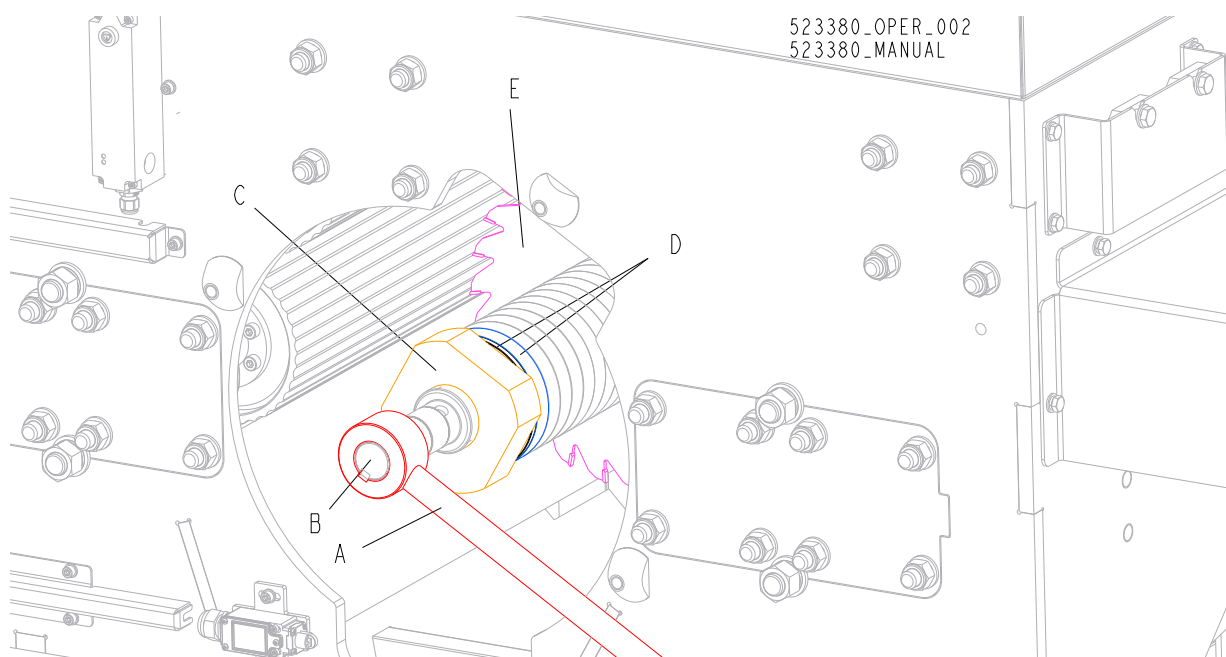
1. Turn off the blade motors and wait for completely stop of edger's moving parts. Then set the main switch in the "0" position and disconnect the power cord.

- Remove bolts (A) and dismount the blade drive shaft cover (B) to access the blades.

**FIG. 4-2**

See Figure 4-3.

- Place the provided wrench (A) on the blade drive shaft (B). Place the second wrench (also provided) on the nut (C), loosen and remove this nut to get access to spacers (D) and blades (E).
- Align the distance between blades by adding or removing spacers. Replace the circular blades as needed.
- Tighten the nut (C).

**FIG. 4-3**

See Figure 4-4.

6. Mount blades and arbor cover (B) using bolts (A).

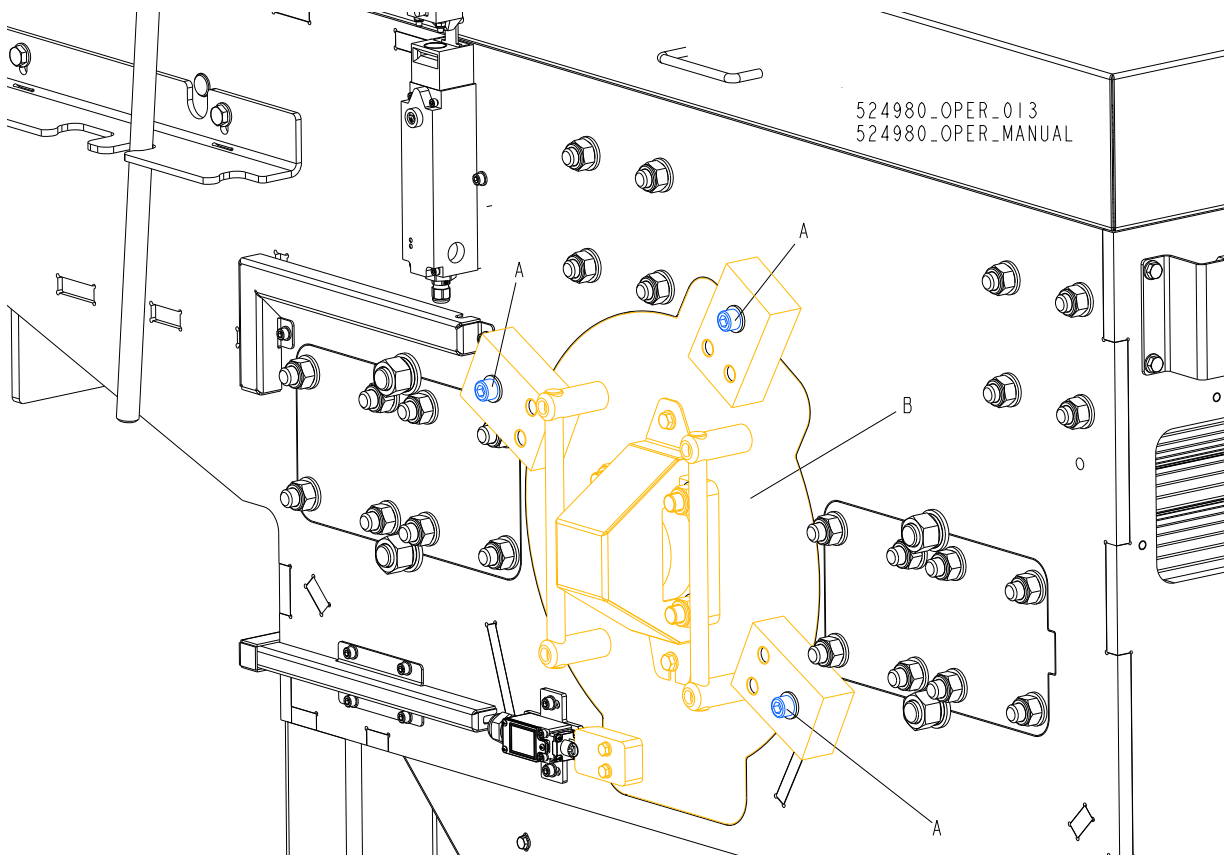


FIG. 4-4

## 4.3 Tensioning the Chains and Belts



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

Before tensioning the chains, make sure the motor is turned off and the main switch is in the "0" position. Disconnect the power cord. Failure to do so may result in serious injury.

### 4.3.1 Conveyor Belt Tensioning

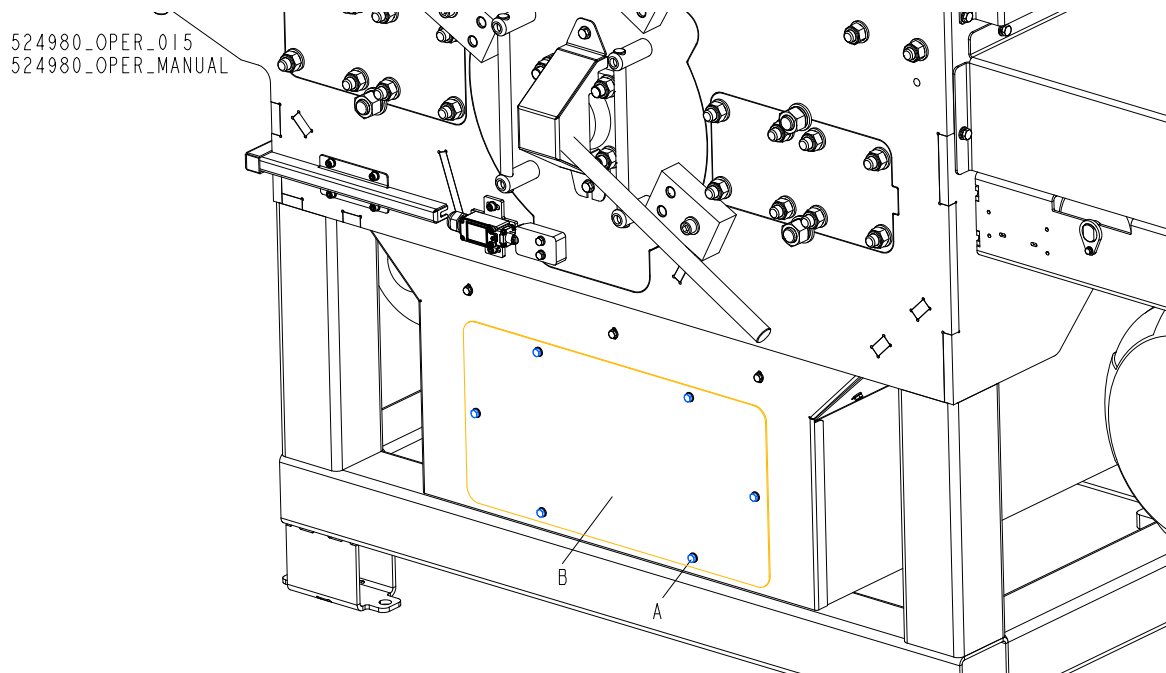


Check the conveyor belt tension every 40 hours of operation. Adjust the belt as necessary.

See Figure 4-5.

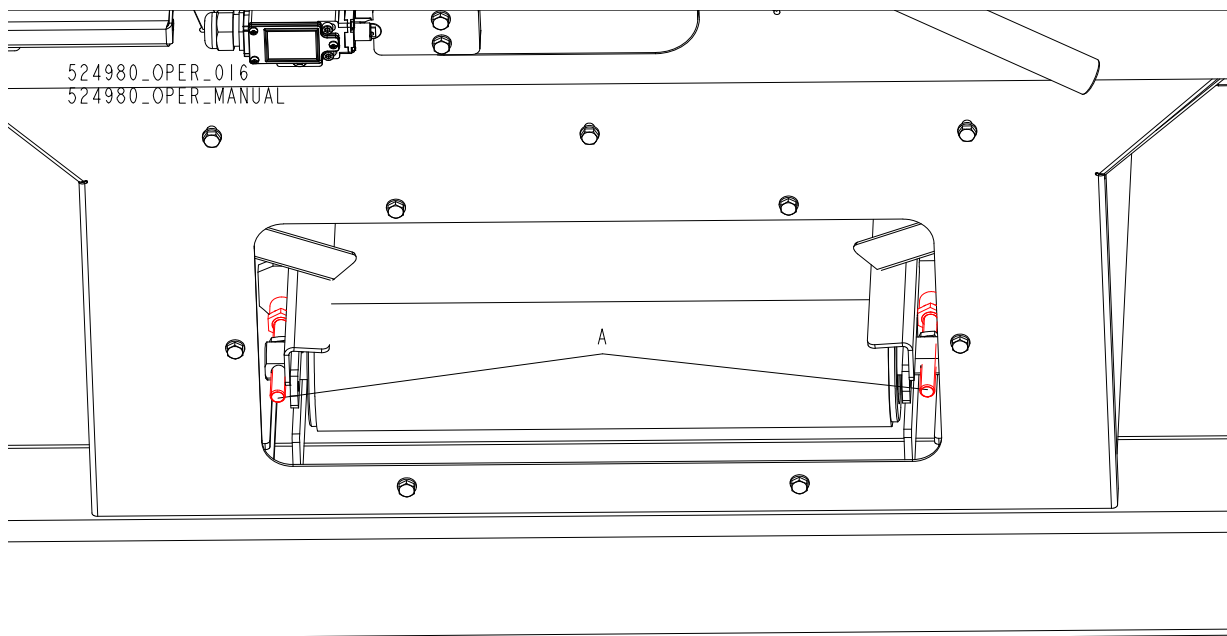
- To adjust the belt tension:

1. Unbolt fasteners (A) and remove the guard (B) shown below.

**FIG. 4-5**

See Figure 4-6.

2. Using the tensioner bolts (A), tension the conveyor belt evenly.

**FIG. 4-6**

3. Reinstall the guard.

### 4.3.2 Main Drive Belts

40

Check the main drive belts tension every 40 hours of operation. Adjust the belt if necessary. The belts should have approximately 15 mm of slack.

See Figure 4-7.

■ To adjust the main drive belts tension:

1. Loosen motor mounting bolts (A)
2. Adjust tension evenly on both side of the motor by using nuts and bolts (B) showing in figure below.

523380\_OPER\_003  
523380\_MANUAL

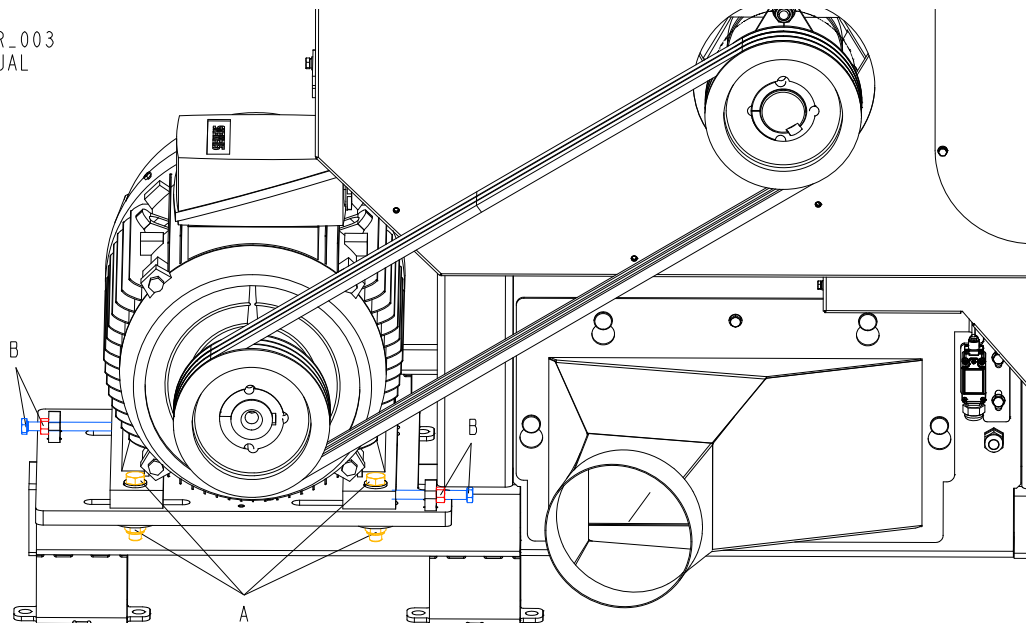
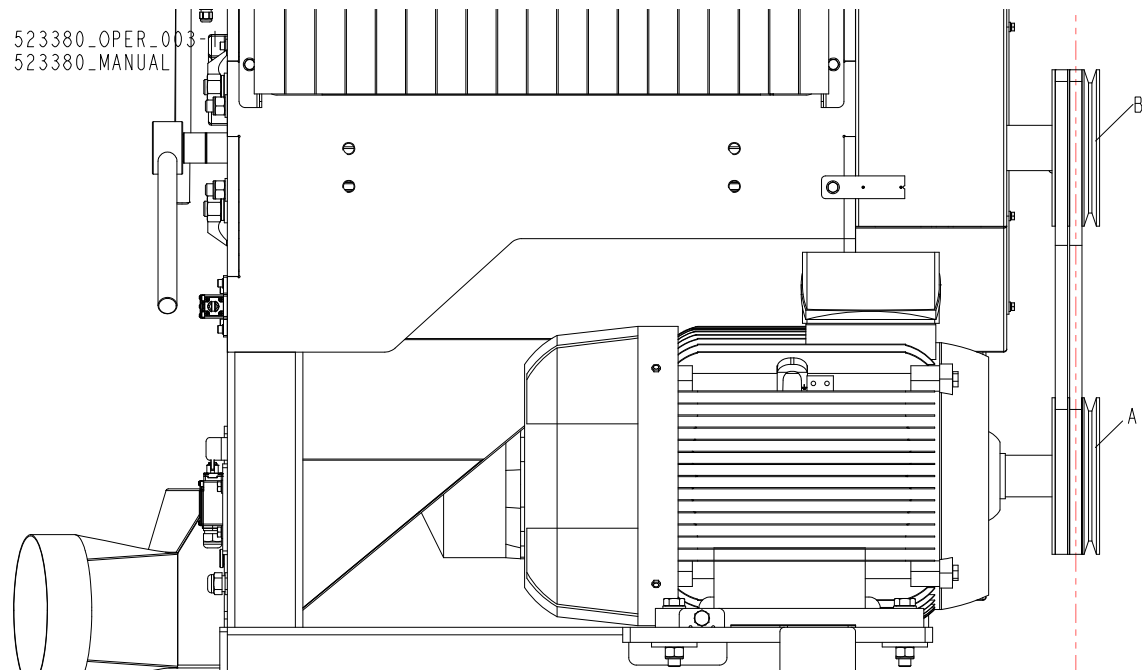


FIG. 4-7

See **Figure 4-8**. Be sure that motor pulley (A) and arbor pulley (B) are in line.



**FIG. 4-8**

### 4.3.3 Roller Chain Tension



Check that the rollers chain is tensioned properly every 100 hours of operation. Adjust the chain if necessary. The chain should have approximately 15 mm of slack.

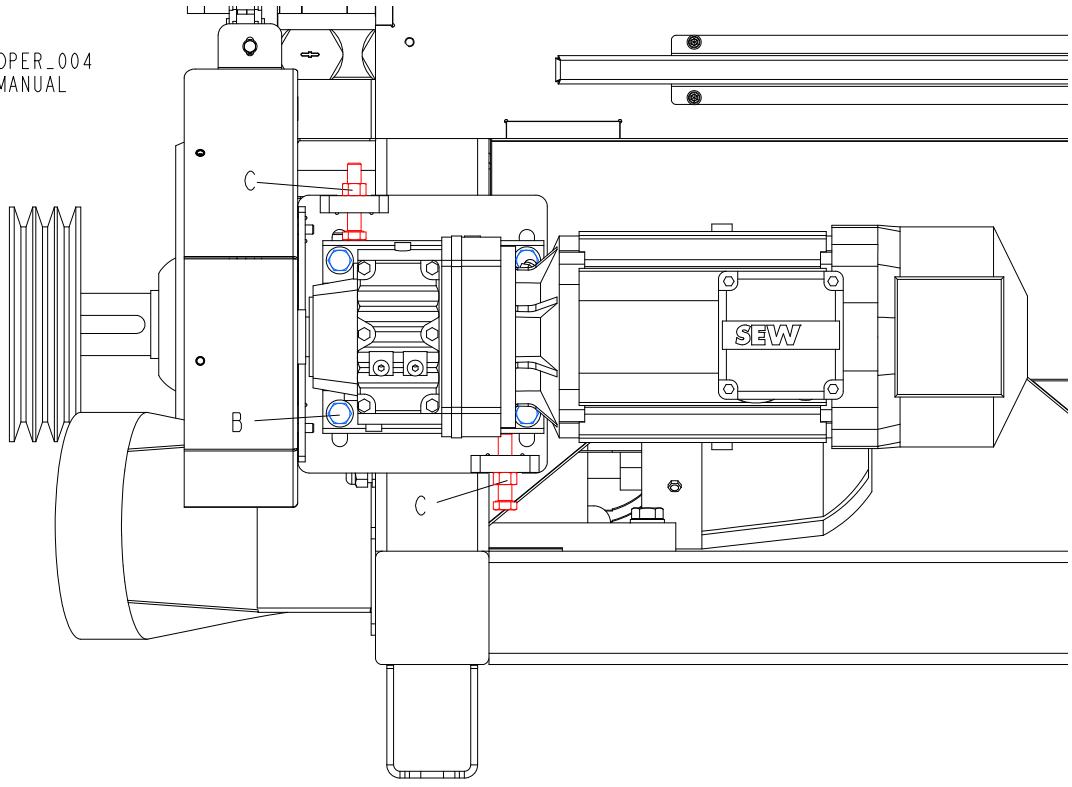
See **Figure 4-9**.

To adjust the rollers chain (A) tension:

1. Loosen the bolts (B)
2. Adjust tension evenly on both side of the gear motor by using nuts and bolts (C)

3. After tensioning chain, tighten the bolts (B).

523380\_OPER\_004  
523380\_MANUAL



SCALE 0.150

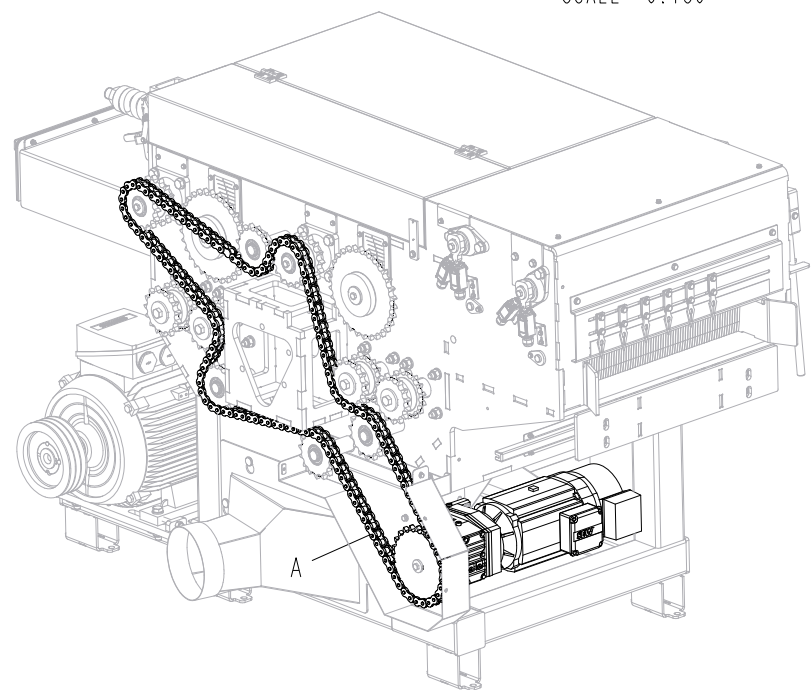



FIG. 4-9

## 4.4 Adjusting Height of the Hold-Down Rollers

See Figure 4-10.

 **IMPORTANT!** Be sure the dimensions in rollers lifter mechanism are as shown below. If not, adjust backlash A1 using nuts (A) to 20 mm and backlash B1 using nuts B to 10 mm.

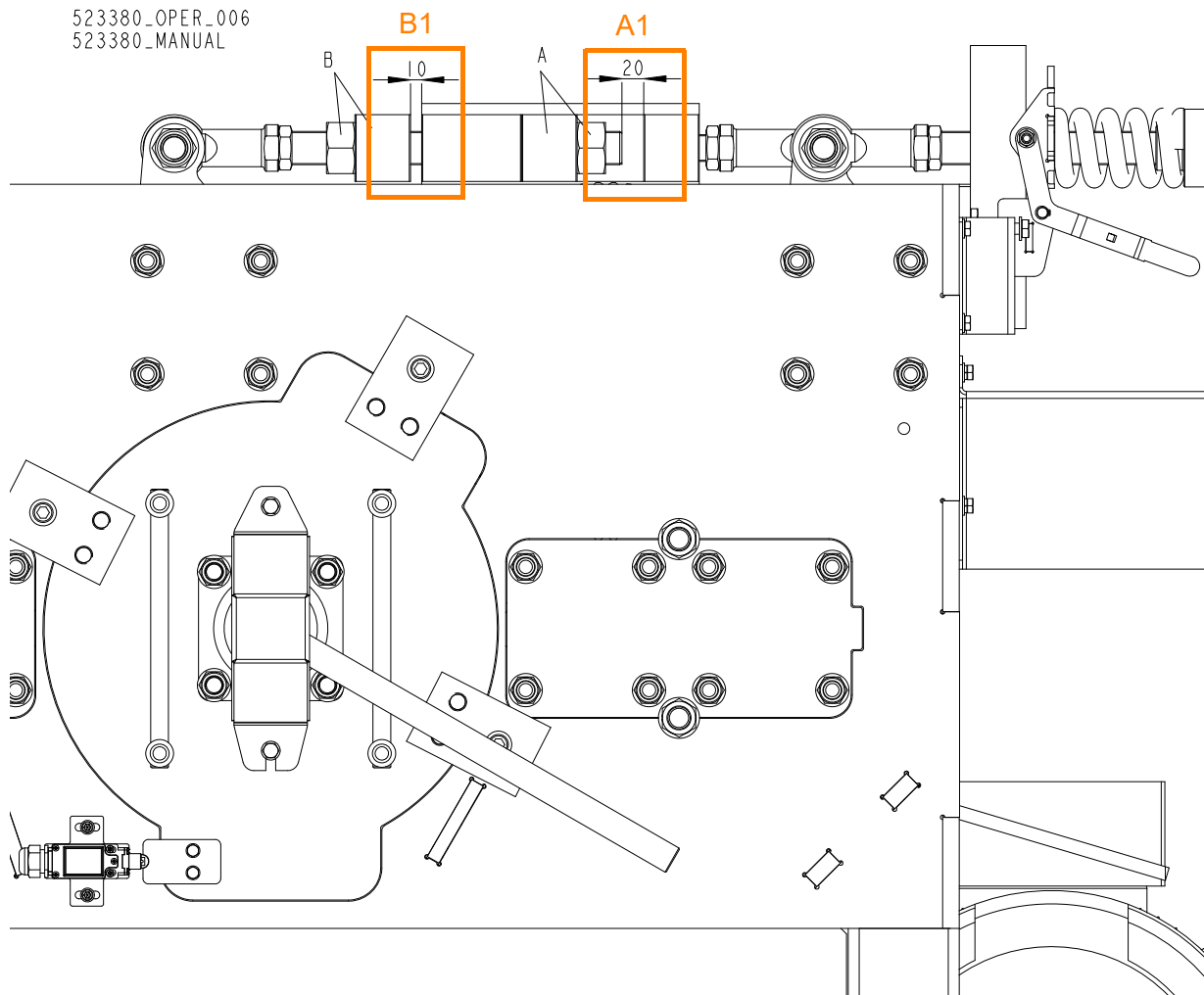


FIG. 4-10



See Figure 4-11.



**IMPORTANT!** Space between rollers must be minimum **20 mm** for boards up to 50mm and **50mm** for boards from 50mm to 107mm.

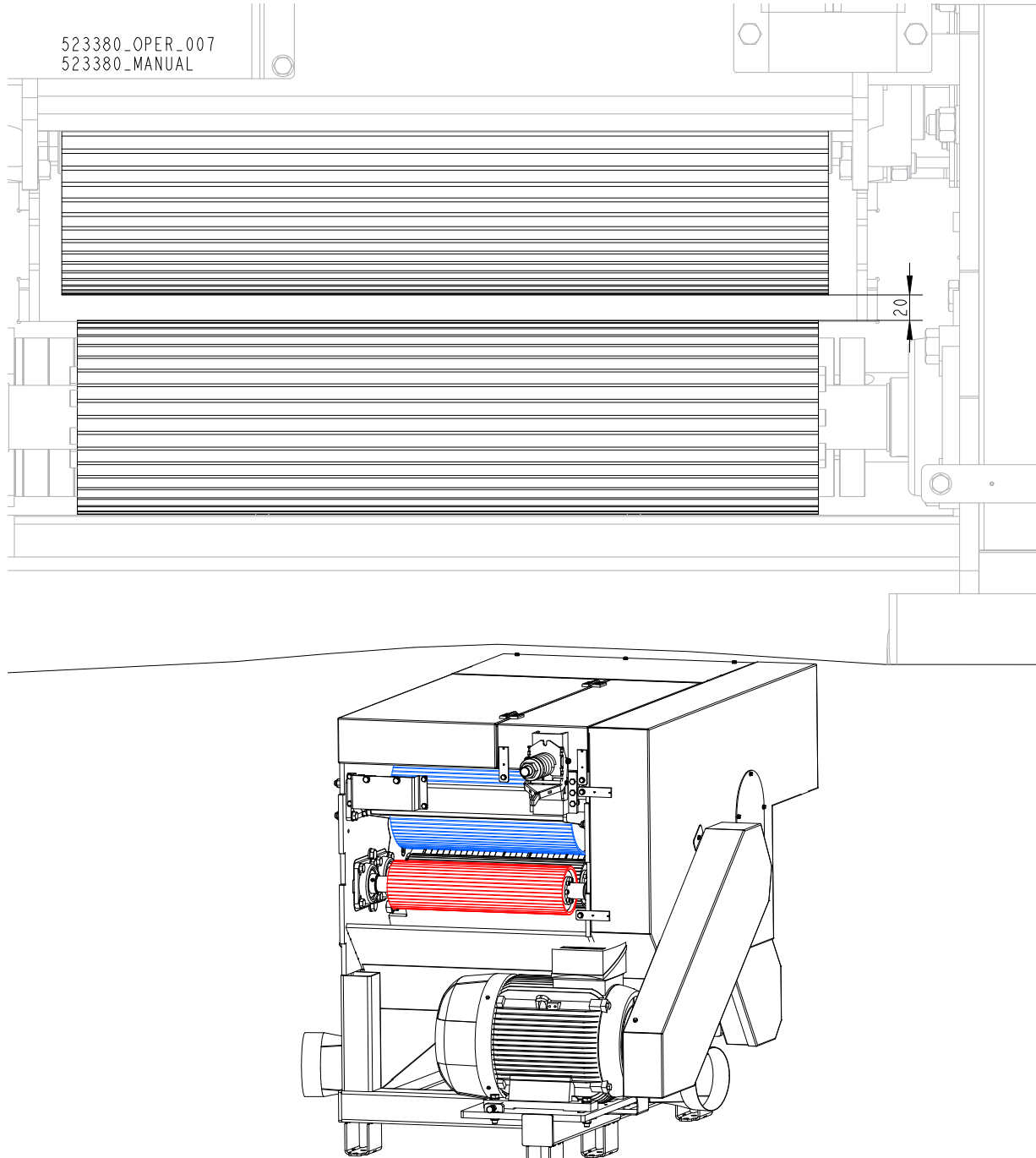


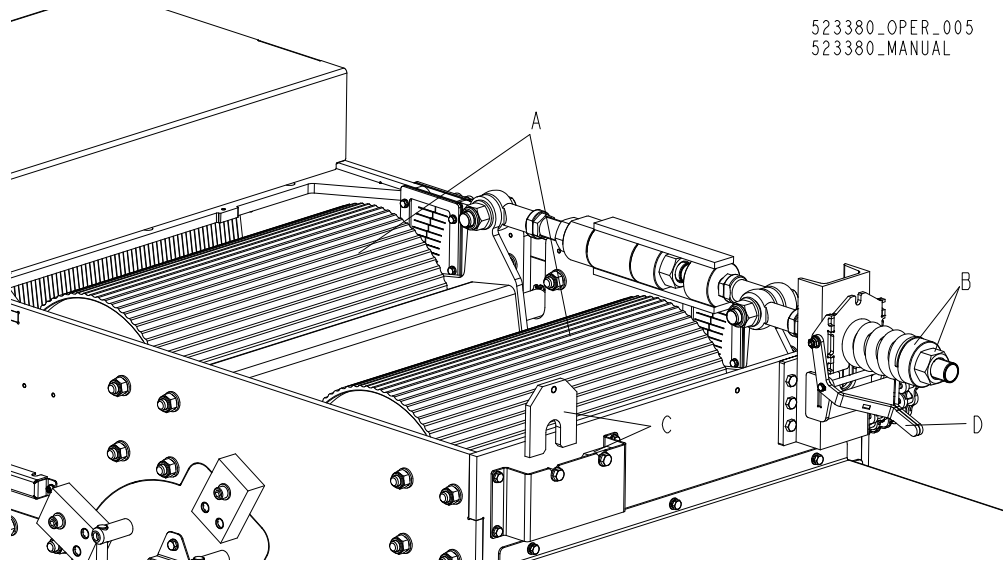
FIG. 4-11

See Figure 4-12.

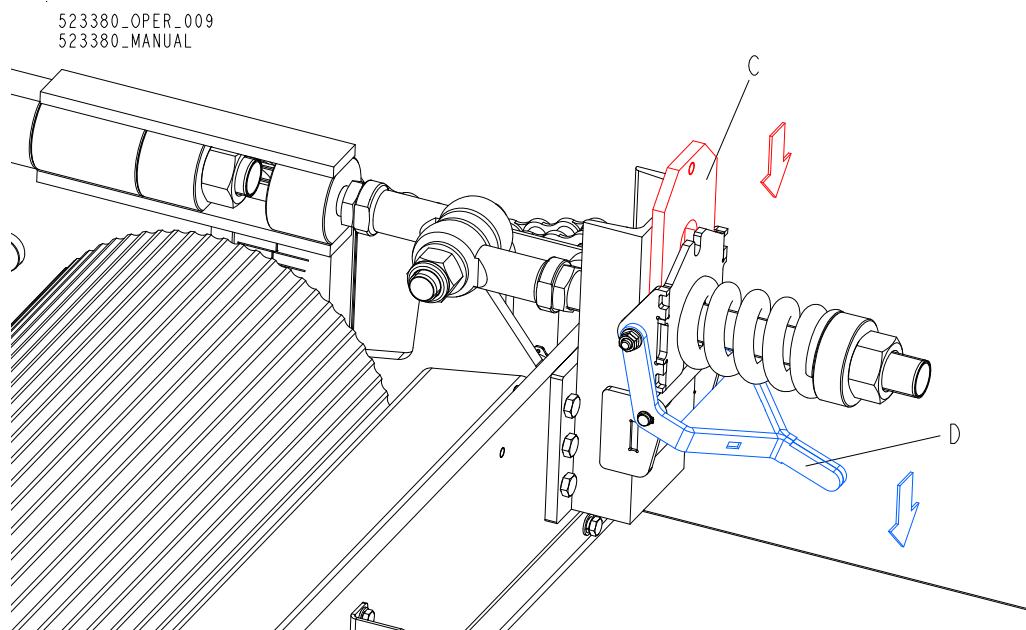
To adjust the rollers height:

- Adjust hold-down rollers (A) height by using (B) nuts.
- You can also use 10mm thick flat plates (C) to change the rollers height by 10mm. Push down lever (D) and put flat plate (C) in place shown in picture 4-13

See Figure 4-13. .







**FIG. 4-12**



**FIG. 4-13**

## 4.5 Lubrication and cleaning

-  **1.** Remove any debris from the blade drive shaft 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.
-  **2.** Lubricate the blade shaft bearings and the bearings of feed rollers every 200 hours of operation with a lithium grease such as Shell Alvania No. 3. Do not over-grease.
-  **3.** Lubricate the anti-kickback lever bearings every 200 hours of operation with a high-quality lithium-based grease such as Shell Alvania No. 3.
-  **4.** Check the press rollers every 4 hours of operation. Remove any dirt or debris from them. Make sure the rollers spin freely, without much play.

## 4.6 Maintaining the Anti-Kickback Fingers

This machine has the potential for kickbacks. Kickbacks 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.

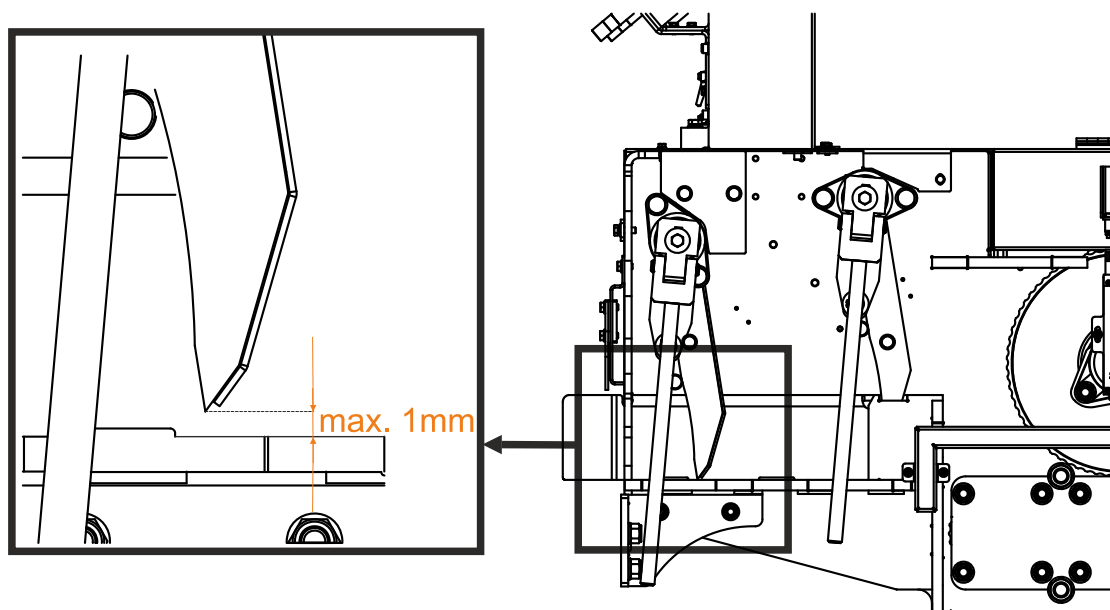
The EG800 edger is equipped with anti-kickback fingers to help prevent kickback from occurring. To maintain the safety of your edger, periodically inspect the machine to ensure all anti-kickback fingers are intact and undamaged and have a sharp point. Missing or damaged parts can affect the safety of the machine operator or bystanders and should be replaced immediately. Do not sharpen the anti-kickback fingers! If they are dulled, replace them with new ones.

Be sure the anti-kickback fingers are free from obstruction and are in their downward position. Failure to do so may result in serious injury.



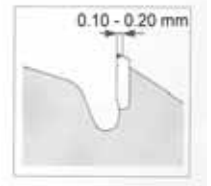
**DANGER!** Always ensure that there is a sharp point on the anti-kickback fingers before each use of the edger.

▶ Check the anti-kickback fingers for wear every 200 hours of operation. If the distance between sharp edge of the anti-kickback finger and edger base is bigger than 1mm, replace the worn finger (or fingers) immediately!



## 4.7 Blade Sharpening

The blade teeth should be sharpened as soon as their dullness, measured as shown in the figure on the right, is 0.10 - 0.20 mm (0.0039 - 0.0078").

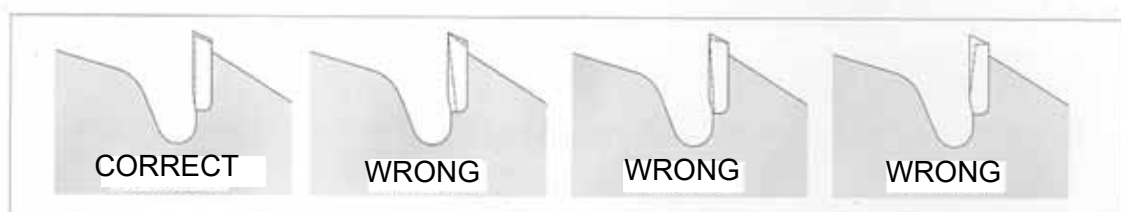


Use diamond grinding wheels for sharpening the blades. Apply intensive cooling during sharpening to prevent overheating and structural changes in the cemented carbide tips.

**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 (0.0157 - 0.0236") 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.



## 4.8 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.

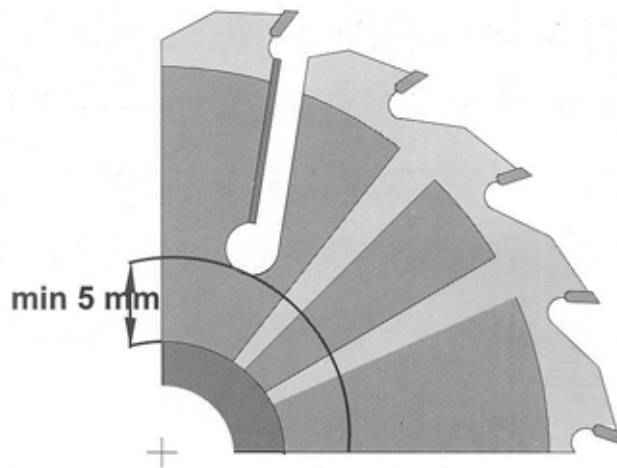
**Do not set teeth with cemented carbide tips!**

Do not make any modifications to the blade teeth!

Do not operate the machine if either 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 (0.197") 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 on machines in good operating condition and equipped with suitable safety guards.

## 4.9 Safety Devices Inspection (Only CE Version<sup>1</sup>)

### *EG800 Edger Safety Devices Inspection*

Before beginning a shift, inspect the following safety devices of the EG800 edger:

- E-Stop button circuit - control box

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1. Marking of products sold within European Economic Area

- E-Stop button circuit - infeed and outfeed table
- Safety switch circuit - cover
- Safety switch circuit - anti-kickback fingers (two persons)
- Safety switch circuit - blade shaft cover

**1 Inspecting the E-Stop Button Circuit - Control Box**

- Start the main motor/engine.
- Press the emergency stop button located on the control box (A). The motor/engine should stop. It should not be possible to restart the motor/engine until the E-STOP button is released.

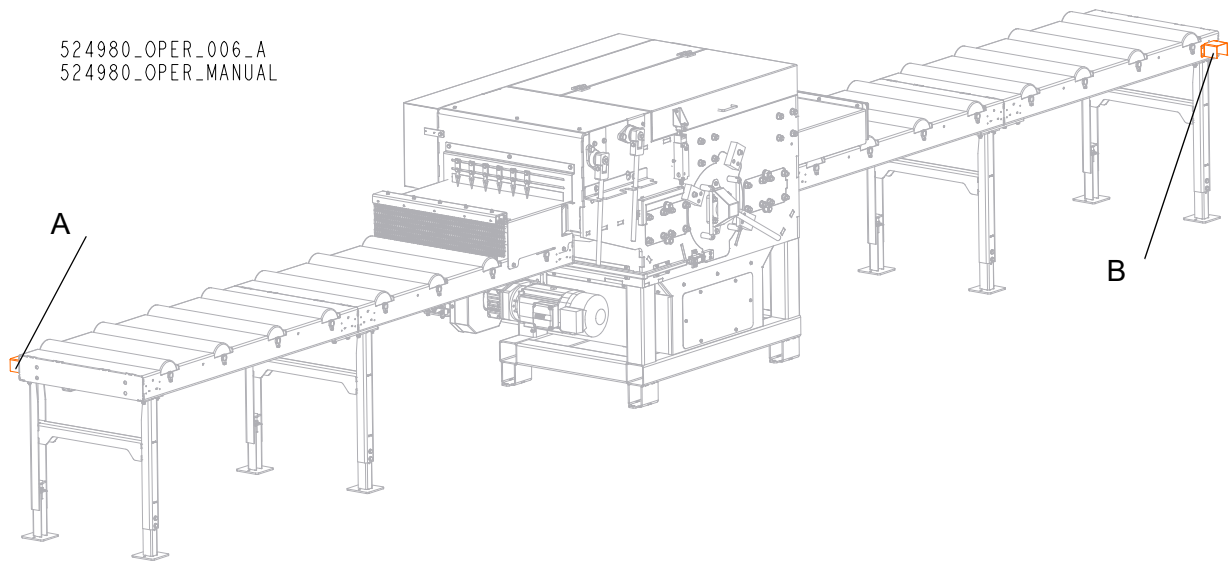
**FIG. 4-14 SWITCHES ON THE CONTROL PANEL****2 Inspecting the E-Stop Button Circuit - Infeed and Outfeed Table**

See Figure 4-14.

- Start the main motor/engine.
- Press the emergency stop button located on the infeed table (A). The motor/engine should stop. It should not be possible to restart the motor/engine until the E-STOP button is released.
- Press the emergency stop button located on the outfeed table (B). The motor/engine should



stop. It should not be possible to restart the motor/engine until the E-STOP button is released.



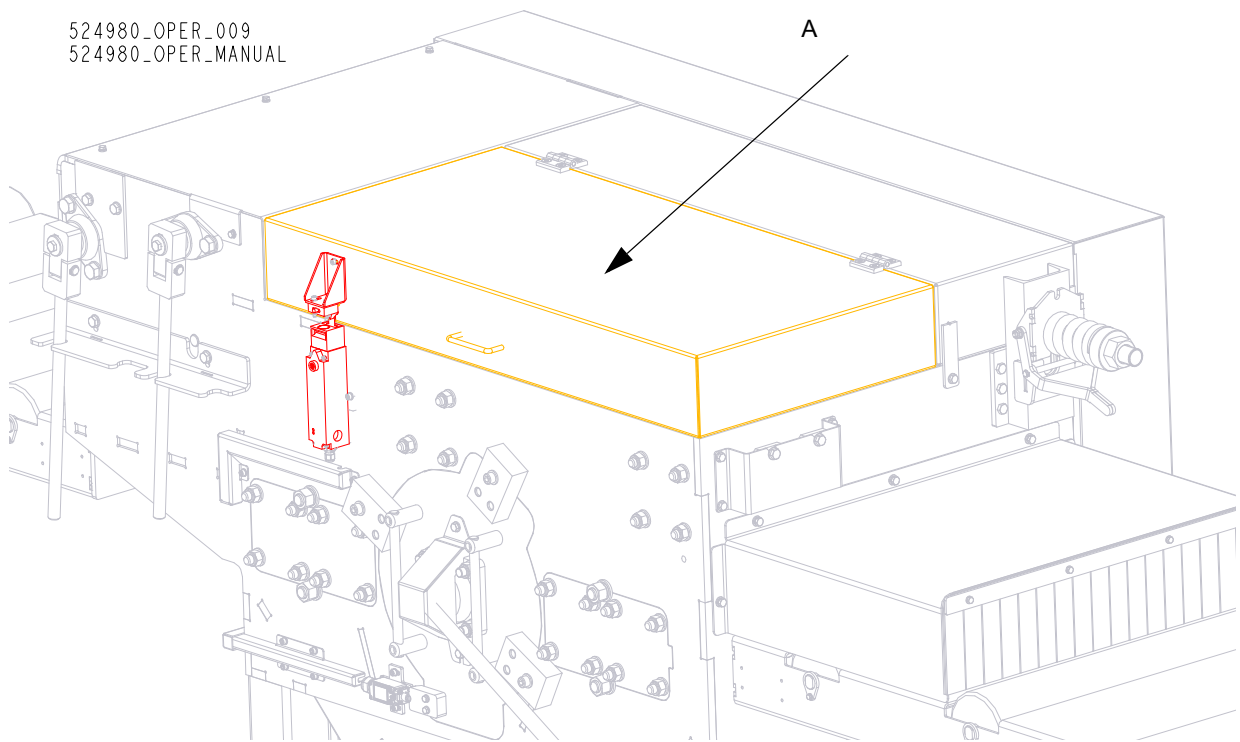
**FIG. 4-15 EG800 EMERGENCY SWITCH LOCATION**

### 3 Safety switch and solenoid interlock circuit - cover

See Figure 4-15.

- Start the main motor/engine.
- Try to open the cover (A).
- It should not be possible to open the cover.
- Turn off the main engine;
- Try to open the cover.

- It should not be possible to open the cover for 90 seconds from switching off the motor.



**FIG. 4-16**

## 6 Safety switch circuit - anti-kickback fingers (two persons)

See Figure 4-16.

- Start the main motor/engine.
- Push the anti-kickback lever (A) forward to raise lower anti-kickback fingers.

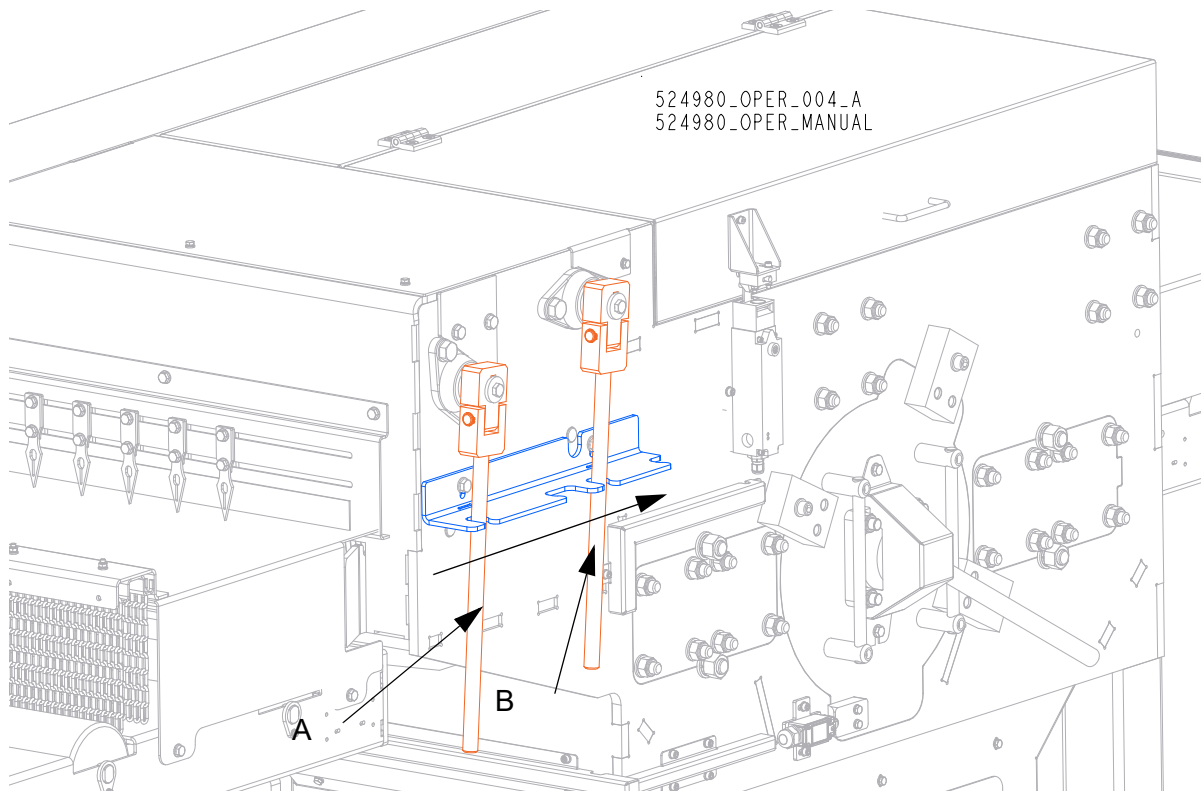
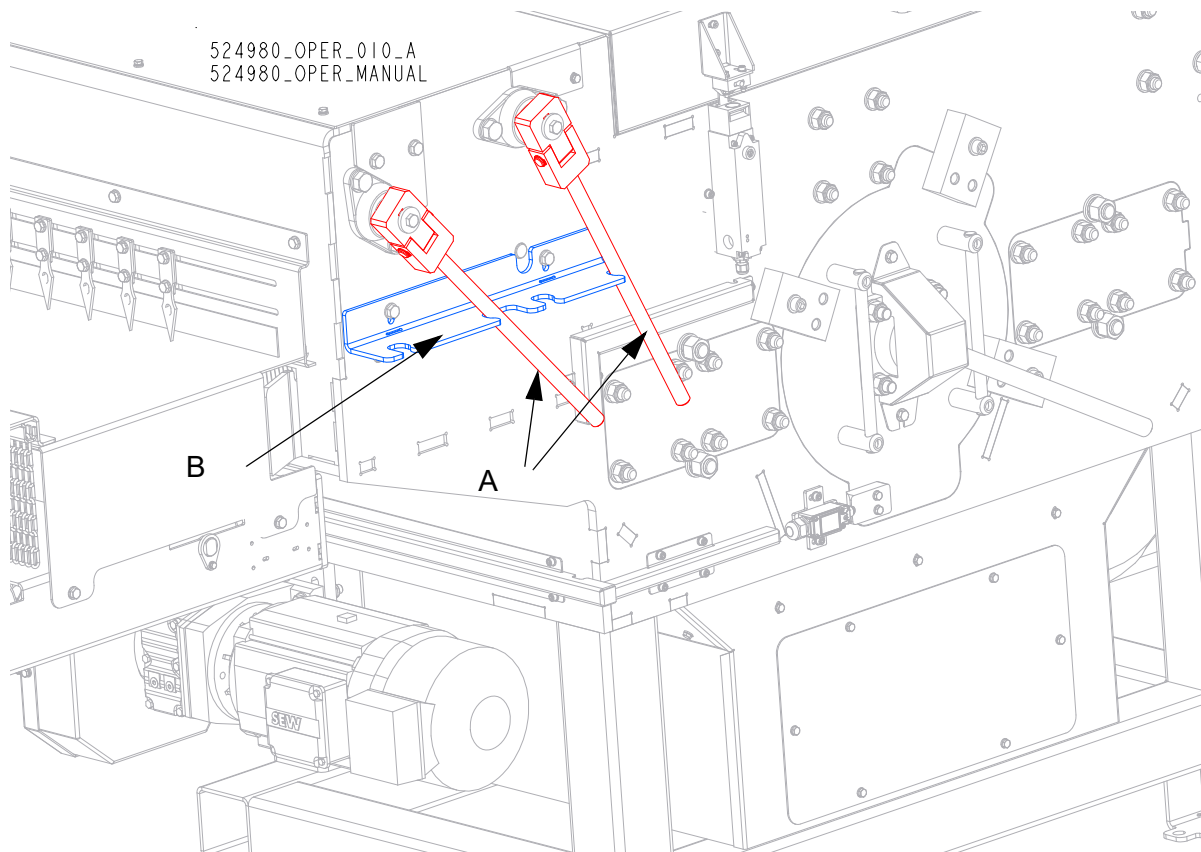


FIG. 4-17

- The engine should be stopped.
- With the anti-kickback fingers raised, try to start the motor using the START button. It should not be possible to start the engine.
- Lower the anti-kickback fingers to their working position.
- Push the anti-kickback lever (B) forward to raise the upper anti-kickback fingers.
- The engine should be stopped.
- With the anti-kickback fingers raised, try to start the motor using the START button. It should not be possible to start the engine.
- Lower the anti-kickback fingers to their working position.

See Figure 4-17.

- With the anti-kickback finger raised and locking both levers (A) in the notches located in the sheet (B), the reverse gear engages and the material can be removed.



**FIG. 4-18**

## 5. Safety switch circuit - blade shaft cover

See Figure 4-18.

- Start the main motor/engine
- Unbolt the fasteners (C) to remove emergency stop (B) safety switch (A).
- The motor/engine should stop. It should not be possible to restart the motor/engine
- Tighten the fasteners (C) to reinstall emergency stop (B) safety switch (A) - It should not be

possible that the engine would start by itself .

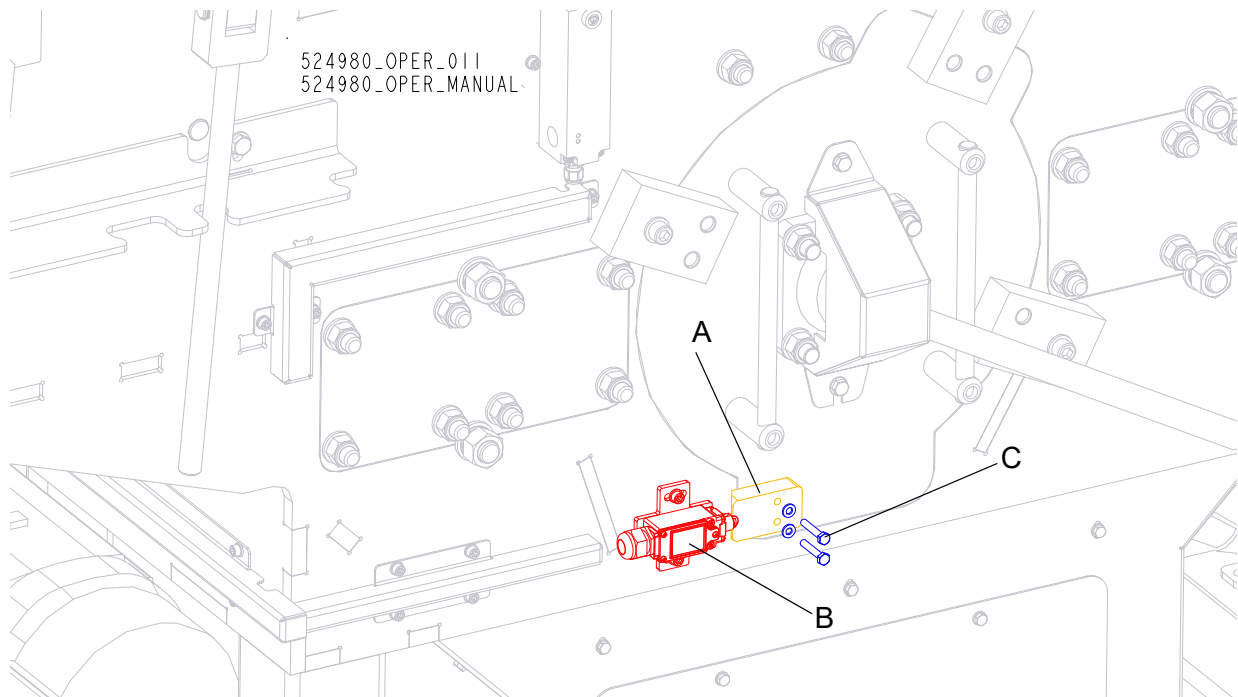


FIG. 4-19

## 6. Safety switch circuit - Sawdust Chute

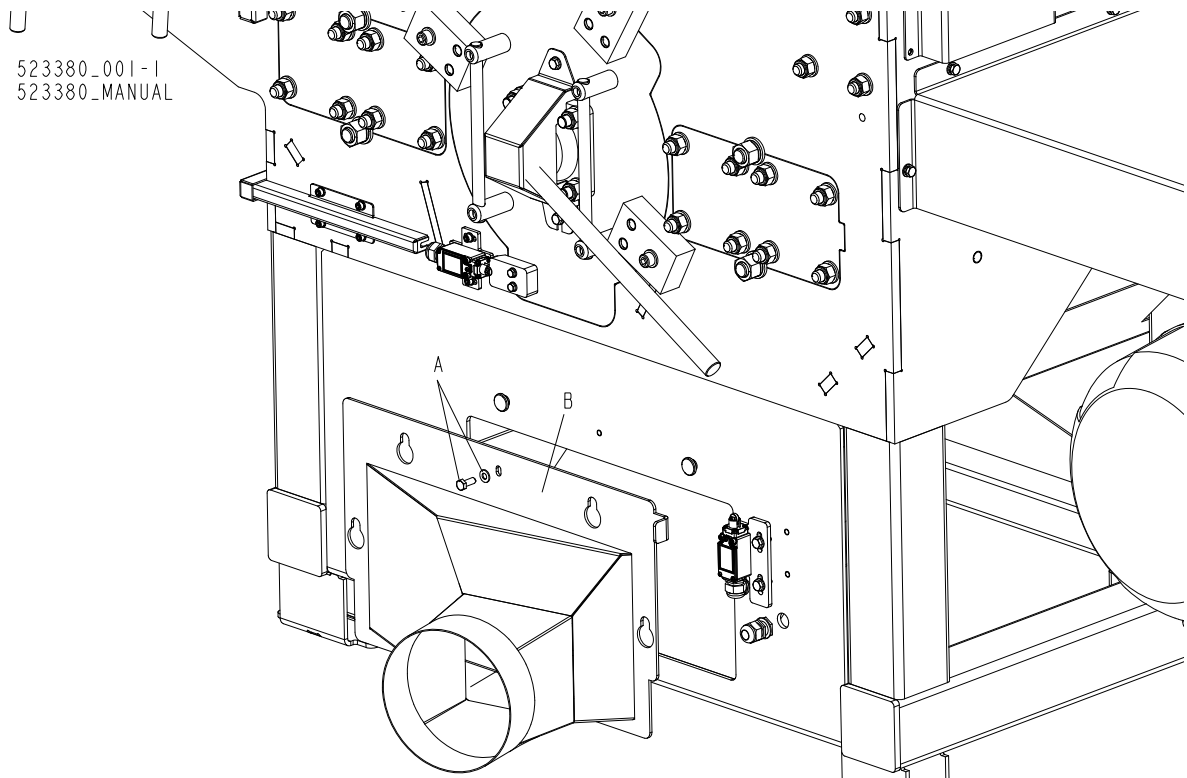


**CAUTION!** Inspect safety switches circuits on both sawdust chutes.

See Figure 4-19.

- Start the main motor/engine
- Unbolt the fasteners (A) to remove dust extractor tube (B)
- The motor should stop. It should not be possible to restart the motor.

- Mount sawdust chute (B), tighten the fasteners (A) - The motor should remain stopped.

**FIG. 4-20**

## SECTION 5 SPECIFICATIONS

### 5.1 Overall Dimensions

See figure 5-1 The major dimensions of the EG800 edger are shown below (all dimensions are in millimeters).

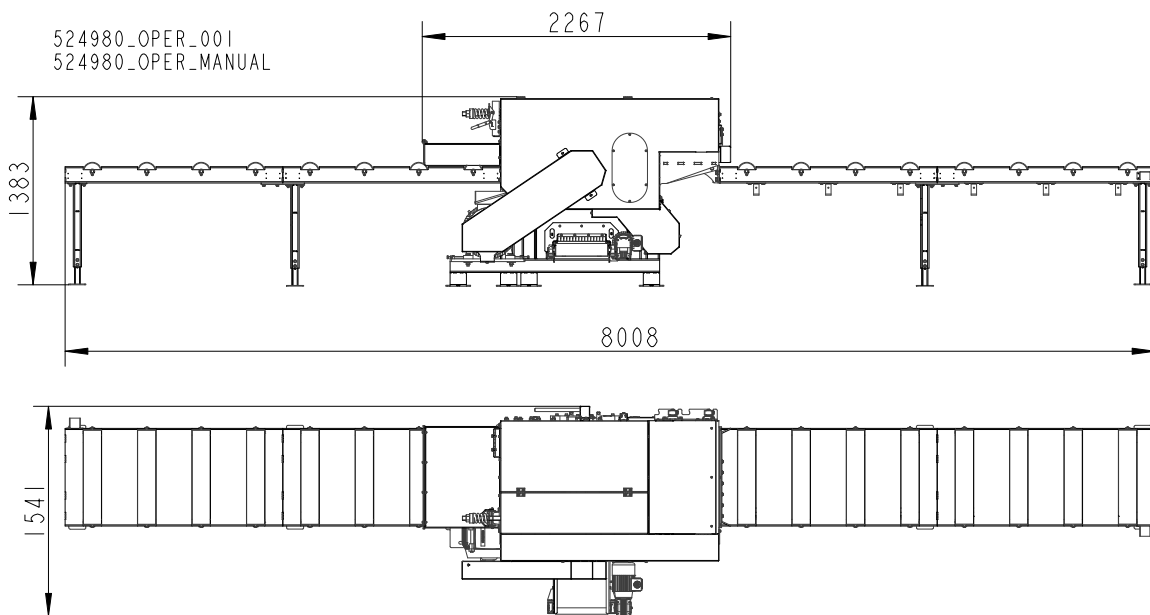


FIG. 5-1

See table 5-1 The overall dimensions are listed in the table below.

<b>Weight</b>	1500 kg
<b>Height</b>	1383 mm
<b>Width</b>	1541 mm
<b>Length</b>	8008 mm

## 5.2 EG800 Edger Specifications

See table 5-2 See the table below for technical data on the EG800 edger.

	Engine/Motor Specifications
Engine/Motor Type	E40 Electric Motor
Manufacturer	Siemens, Czech Republic
Voltage	400V, 460V
Maximum Current	53 A
Maximum Revolutions per Minute	2955 r.p.m. at 50Hz
Rated Power	30kW ( 40HP ) at 50Hz
Manufacturer Part No.	1LE15032AA434AA4

	Engine/Motor Specifications
Engine/Motor Type	E50 Electric Motor
Manufacturer	WEG, Brazil
Voltage	400V, 690V
Maximum Current	66 A
Maximum Revolutions per Minute	2950 r.p.m. at 50Hz
Rated Power	37kW ( 50HP ) at 50Hz
Manufacturer Part No.	W22 200L

See table 5-3 Noise Level:<sup>1 23</sup>

	Engaged
Edger Equipped with electric motor E40	107 dB (A)

1. The noise level measurement was taken in accordance with PN-EN ISO 3746 Standard Value for associated uncertainty K=4dB.

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.



See table 5-4 Other specifications of the EG800 edger are given below.

Number of blades	6
Blade diameter	400 mm
Blade Rotational Speed	2950 r.p.m.
Cutting speed	0 - 40 m/min
Minimum board length	1000 mm
Minimum board thickness	12 mm
Maximum board thickness	107 mm
Minimum cutting width	60 mm
Maximum cutting width	600 mm
Maximum material width	640 mm

**TABLE 5-4**

### 5.3 Sawdust Extractor Specifications

See table 5-5 See the table below for specifications of a sawdust extractor that can be used with the EG800 edger.<sup>1</sup>

Airflow	1200 m <sup>3</sup> /h
Inlet diameter	200 mm
Motor Power	4 kW
Number of sacks	2 pcs
Sack capacity	0.25 m <sup>3</sup>
Pressure drop	1,5 kPa (0.22 psi) <sup>1</sup>
Weight	110 kg
Recommended conveying air velocity in the duct	20 m/s

<sup>1</sup> The pressure drop between the inlet of the capture device and the connection to the CADES should not exceed 1.5 kPa (for the nominal air flow rate). If the pressure drop exceeds 1.5 kPa the machine might not be compatible with conventional CADES.

**TABLE 5-5**



**IMPORTANT!** The sawdust extractor hoses must be grounded or made with materials not accumulating electrostatic charge.



**CAUTION!** Always turn on the dust extractor before starting the machine.

3. The total value of hand-arm vibration the operator may be exposed to does not exceed 2.5 m/s<sup>2</sup>. The highest root mean square value of weighted acceleration to which the whole operator's body is subjected does not exceed 0.5 m/s<sup>2</sup>.

1. External chip and dust extraction equipment with fixed installations are dealt with in EN12779:2016-04.

# 6 Laser Information

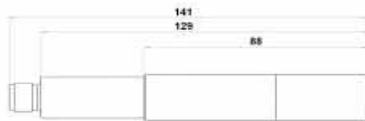
## SECTION 6 LASER INFORMATION

SEMICON SP. Z O.O., 43/43a, Zwolenska Str., 04-761 Warsaw, Poland  
 T +48 22 615 73 71, +48 22 615 64 31, F +48 22 615 73 75, info@semicon.com.pl  
 PRODUCTION BUSINESS UNIT, 71a Europa Str., 04-805 Warsaw, T +48 22 825 24 64



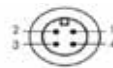
### LP - 520L -10

Industrial hermetic focusable laser line generator with rectilinearity correction.  
 Laser for industrial applications.



#### Technical data:

- Safety Class 2M from EN 60825-1:2014;
- Wavelength  $\lambda = 520\text{nm}$ ;
- Average Output Power 10 mW;
- Operating Voltage 9V - 28VDC;
- Operating Current <100mA;
- Optics: aspherical acrylic lens F=8mm; NA=0.28; rod lens  $\varnothing 5$ ;
- Line generating angle  $\sim 90^\circ$ ;
- Possibility to adjust the focus from few cm to several meters (external focus mechanism);
- Dimensions  $\varnothing 20 \times 130$ ;
- International Protection Rating IP65;
- Aluminium housing (black anodized);
- Chromed brass mounting M18 x 1;
- Operating temperature: 0 to  $+60^\circ\text{C}$ ;
- Storage temperature:  $-40$  to  $+85^\circ\text{C}$ ;
- Laser diode electrically isolated from housing;
- M12 plug, 4-pin M12 x 1
- Pin configuration:
  - 1: voltage supply (+)
  - 3: voltage supply (-)



#### OPTIONS:

- different optical power, wavelength, line generating angle, gaussian or uniform line optics,
- modulation.



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 USD 55 1750 0009 0000 0000 0272 8297, CHF 90 1750 0009 0000 0000 0272 8348  
 NIP PL5260303208, D6B 422320739

## EC declaration of conformity according to EC Machinery Directive 2006/42/EC, Annex II, 1.A

Manufacturer,

Wood-Mizer Industries sp. z o.o.  
Nagórna 114, 62-600 Koło; Poland  
Tel. +48 63 26 26 000

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Following machine in our delivered version complies with the appropriate essential 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.

### We, the undersigned herewith declare, that:

Designation of the machine: **Edger**

TYPE: EG800

Models: .....

No. of manufacturer: .....

### Is in conformity with the following EC directives:

Machinery Directive 2006/42/EC  
Electromagnetic Compatibility Directive  
2014/30/EU

### And is in conformity with the following Harmonized Standards:

PN-EN ISO 12100:2012  
PN-EN 1870-4:2012  
PN-EN ISO 14120:2016-03  
PN-EN 349+A1:2010  
PN-EN 13849-1\_2016-02  
PN-EN 60204-1:2010  
PN-EN ISO 13857:2010

Notified Body according to annex IV : INSTYTUT TECHNOLOGII DREWNA  
Centrum Certyfikacji Wyrobów Przemysłu Drzewnego  
Winiarska 1, 60-654 Poznań

Notification No: 1583

EC type-examination certificate no.: 0597/2018

Responsible for Technical Documentation: Piotr Adamiec / Engineering Manager  
Wood-Mizer Industries Sp. z o.o.  
62-600 Koło, Nagórna 114, Poland  
Tel. +48 63 26 26 000

Place/Date/Authorized Signature: Koło, 06.04.2018 

Title : Engineering Manager