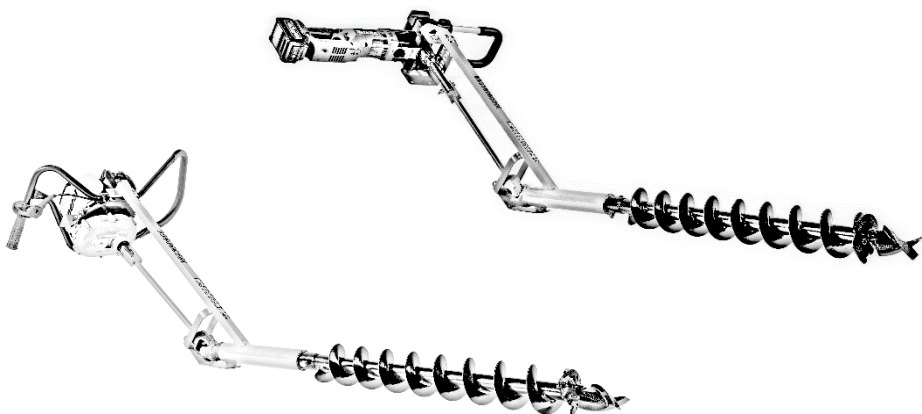


SIBORE™

DRILL



OPERATOR'S AND SAFETY MANUAL

FOR SIBORE DRILL MODELS:

SB215/SB215e, SB216/SB216e & SB431/SB431e

WARNING!

Read and understand this Manual. Always follow safety precautions in the Operator's and Safety Manual. Improper use can cause serious injury!

TerraTrench USA, Inc. dba MiniTrencher
815 NE 172nd Avenue Vancouver, WA 98684
877-694-0141 www.minitrencher.com

Thank you for purchasing a MiniTrencher™ product!

Congratulations on choosing a MiniTrencher SiBore Drill™ horizontal auger. We are confident that you will be satisfied with this modern piece of equipment. The SiBore Drill is a patented design allowing the operator to easily bore underneath hard surfaces like sidewalks and patios. The SiBore Drill is capable of being powered by a battery-electric motor and Gas-powered engines.

Other advantages of the SiBore Drill horizontal auger.

- Sturdy construction and high reliability.
- Lightweight design for easy, handheld use.
- Durable Augers and extensions for digging through any soil.
- Easily converts to single-man posthole digger.

For more information and operating techniques, refer to the website:

www.SiboreDrill.com

We want you to be satisfied with your MiniTrencher product.

In order to guarantee the optimal function and performance of your SiBore Drill horizontal auger and to ensure your personal safety we would request you to perform the following.

WARNING!

Read and understand this Manual. Always follow safety precautions in the Operator's and Safety Manual. Improper use can cause serious injury!

WARNING!

FUELS WITH MORE THAN 10% ETHANOL ARE NOT APPROVED FOR USE IN SIBORE DRILL 2-STROKE AND 4-STROKE ENGINES! Use of alternative fuels, such as E-20 (20% ethanol), E-85 (85% ethanol) or any fuels not meeting MINITRENCHER requirements are not approved for use in SIBORE DRILL HORIZONTAL AUGERS!

USE OF ALTERNATIVE FUELS CAN CAUSE THE FOLLOWING PROBLEMS:
Poor performance, loss of power, overheating, fuel vapor lock, improper clutch engagement, premature deterioration of fuel lines, premature deterioration of gaskets, premature deterioration of carburetors.

USING ALTERNATIVE FUELS AND/OR 2-STROKE OILS NOT ACCORDING TO JASO FC OR ISO-L-EGD IN SIBORE DRILL WILL VOID YOUR ENGINE WARRANTY!

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What's In The Box

- **SB215/SB215e MicroBore models**

- Makita 40V MAX XGT Battery System (SB215e) – Separate Box **OR**
- Honda GX35 all-position, 4-stroke, gasoline engine (SB215) – Separate Box
 - Lower Unit Assembly
 - MicroBore Adapter
 - (2) MicroBore Drill Tip
 - MicroBore Swivel
 - (8) 36" MicroBore Drill Rod
 - (9) MicroBore Coupler
 - Accessory Stand
 - Assorted Tools

- **SB216/SB216e models**

- Makita 40V MAX XGT Battery System (SB216e) – Separate Box **OR**
- Honda GX35 all-position, 4-stroke, gasoline engine (SB216) – Separate Box
 - Lower Unit Assembly
 - 4" Auger
 - 2" Auger
 - (3) 32" Extensions
 - Accessory Stand
 - Assorted Tools

- **SB431/SB431e models**

- Makita 40V MAX XGT Battery System (SB431e) – Separate Box **OR**
- Honda GX35 all-position, 4-stroke, gasoline engine (SB431) – Separate Box
 - Lower Unit Assembly
 - MicroBore Adapter
 - (2) MicroBore Drill Tip
 - MicroBore Swivel
 - (8) 36" MicroBore Drill Rod
 - (9) MicroBore Coupler
 - 4" Auger
 - 2" Auger
 - (3) 32" Extensions
 - Accessory Stand
 - Assorted Tools



Read operator's and safety manual and follow the warning- and safety precautions!



Hand entanglement possible, causing severe, permanent injury.



Particular care and caution!



Stop engine!



Forbidden!



Sharp edges can cause severe, permanent injury.



Eye and hearing protection required!



Do not touch hot surfaces!



Hazardous dust and/or gas emission!



**Know what's below.
Call before you dig.**

SAFETY PRECAUTIONS

Intended Use

SiBore Drill horizontal auger

Use the SiBore Drill horizontal auger with the appropriate Honda GX35 engine or Makita 40V MAX XGT motor. Use the SiBore Drill gas models outdoors only. For digging and boring through suitable materials.

Improper Use:

Never use the SiBore Drill for cutting through solid rock or concrete. Never use the SiBore Drill for vertical digging (post hole digging) while the engine/motor is installed on the lower unit assembly. Never use hydraulic powered equipment to power or assist in pulling the SiBore Drill.

Unauthorized Use:

Persons unfamiliar with the operator's manual, children, young people, and persons under the influence of alcohol, drugs or medications must not use the SiBore Drill horizontal auger.

General Precautions

- **The operator MUST read this operator's manual to ensure safe operation (even if you already have experience in using horizontal boring machines.)** It is important to be familiar with the operation of this particular boring machine. Users insufficiently informed will endanger themselves as well as others due to improper handling.
- Let only persons who have experience in using boring machines work with this unit. When letting another person use the SiBore Drill horizontal auger, this operator's manual must be provided along with it.
- First-time operators should ask a specialist to instruct them in working with boring machines.
- Children and persons under 18 years of age must not be allowed to use this horizontal auger. Persons over the age of 16 years may, however, use the horizontal auger for the purpose of being trained as long as they are under the supervision of a qualified trainer.

General Precautions (cont.)

- Working with the boring machine requires high concentration.
- Operate the horizontal auger only if you are in good physical condition. If you are tired, your attention will be reduced. Be especially careful at the end of a working day. Perform all work calmly and carefully. The user must accept liability for others.
- Never work while under the influence of alcohol, drugs, medication or other substances which may impair vision, dexterity or judgement.
- A fire extinguisher must be available in the immediate vicinity when working in easily inflammable vegetation or when it has not rained for a long time (danger of fire).
- If weather is hot, please follow all company and local regulations to stay hydrated and cool.

Protective equipment

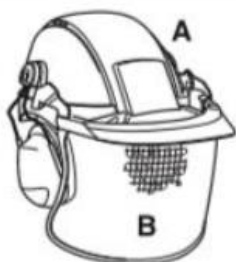
- **To avoid head, eye, hand or foot injuries as well as to protect your hearing the following protective equipment must be used during the operation of the SiBore Drill horizontal auger:**
When using personal protective equipment, ensure compliance with ANSI Z87.1!
- The kind of clothing should be appropriate, i.e. it should be tight-fitting but not be a hindrance. Clothing in which material can accumulate (trousers with cuffs, loose-fitting shoes) must not be worn.
- Do not wear any jewelry or clothing that can get caught or distract from operation of the boring machine.
- It is necessary to wear a protective helmet whenever working with SiBore Drill horizontal auger. The **protective helmet (A)** is to be checked in regular intervals for damage and is to be replaced after 5 years at the latest. Use only approved protective helmets.
- The helmet **visor (B)** protects the face from dust and spoils from boring. In order to prevent injuries to eyes and face, always wear **protective goggles (C)** or visor when using the boring machine.
- To prevent hearing damage, always wear suitable personal **hearing protection**. (earmuffs (D), ear plugs, etc.)
- When dry-boring dust-producing material such as fine sand and certain clay soils, always wear approved **respiratory protection (E)**.
- **Work gloves (F)** of tough leather are part of the required work kit of the horizontal auger and must always be worn when working with SiBore Drill horizontal auger.



1



2



3



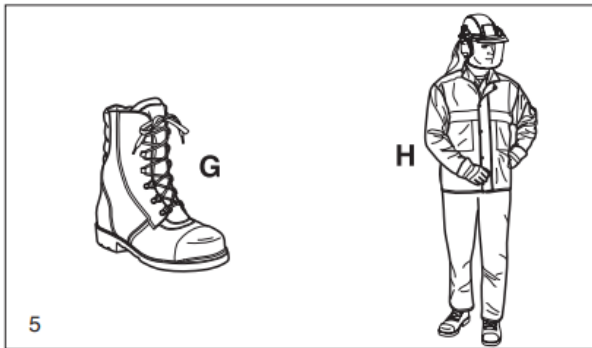
4

E

F

Protective equipment (cont.)

- Always wear **safety shoes or boots (G)** with steel toes, non-skid soles, and leg protectors when working with the horizontal auger. Safety shoes equipped with a protective layer provide protection against cuts and ensure a secure footing.
- Always wear a **work suit (H)** made of tough material with sufficient flame-retardant qualities whenever working with the SiBore Drill horizontal auger.



Putting into operation

- **Do not work on your own. There must be someone around in case of an emergency (within shouting distance).**
- Observe all anti-noise regulations when working in residential areas.
- **Never use the horizontal auger near inflammable materials or explosive gasses! The SiBore Drill horizontal auger can create sparks leading to fire or explosion!**
- Avoid inhaling or coming into skin contact with fuel. Immediately wash the contacted area or seek medical attention if ingested or inhaled. **Injury risk!**
- Make sure that all persons within 30 meters (100 feet), such as other workers, are wearing protective gear (see “Protective equipment”). Children and other unauthorized persons must remain more than 30 meters away from the working area. Keep an eye out for animals as well.

Putting Into Operation (cont.)

- SiBore Drill horizontal auger shall not be used in low visibility or when the operator cannot visually inspect the digging area.
- **Before starting work the horizontal auger must be checked for perfect function and operating safety according to the prescriptions.** In particular, make sure that the lower unit assembly, extensions and augers are in good condition (replace immediately if torn, damaged or bent), the universal joint is properly greased and rotating properly, the Start/Stop switch functions properly on your specific engine (see manufacturer's operation and safety manual for proper function of Start/Stop switch). Visually inspect cutting edges for damage and possible dirt build-up.
- Start the horizontal auger only after complete assembly and inspection. Never use the boring machine when it is not completely assembled.
- Put the SiBore Drill horizontal auger into operation only as described in this operator's manual. Ensure that the auger bit is not in contact with anything prior to starting the machine (gas engine specifically). Other starting procedures are not allowed.
- When starting the horizontal auger, it must be well supported and securely held.
- If the product is new, test it by running it at least 60 seconds at top speed. When doing this, make sure that no persons or body parts are in the extended swing range of the lower unit, in case it is defective and performs erratically.
- **When working with SiBore Drill always hold it with both hands.** Hold the handles tightly with thumbs facing fingers.
- **CAUTION: When you release the throttle, the auger will keep spinning for a short period of time.** (free-wheeling effect).
- Continuously ensure that you have a safe footing.
- (Gas engines only) Do not work in closed rooms or in deep holes or ditches (danger or poisoning by fumes).
- **WARNING (GAS ENGINES ONLY) – CARBON MONOXIDE PRODUCTED DURING USE CAN KILL – DO NOT USE SIBORE DRILL INDOORS – MAKE SURE THERE IS PROPER VENTILATION WHEN USING BORING MACHINE IN DEEP TRENCHES OR OTHER CONFINED SPACES.**
- Do not touch the digging parts while engine is on and running. **Injury hazard!**
- **Switch off horizontal auger immediately if you observe changes in its operating behavior.**

Putting Into Operation (cont.)

- **Switch off boring machine before inspecting lower unit assembly, replacing auger, extensions, repositioning the horizontal auger, or forcefully removing the machine from the bore (stuck).**
- Turn off the engine immediately and check the machine if you hear or feel any change in digging behavior.
- **BACK REAM OFTEN!** Best practice is to back ream 3-5". This is especially true once the user cannot visually see the auger. Failure to back ream can cause a stuck machine.
- Turn off the engine when taking a break or stopping work. Place the unit in such a way that the moving parts of the horizontal auger cannot endanger anyone.
- Do not put the overheated SiBore Drill in dry grass or on any inflammable objects. The muffler is very hot (gas engines only) (danger of fire).

Sharp Rotation

- When working with SiBore Drill horizontal auger there is a danger of sharp rotational force.
- This occurs when the auger jams against a solid object (large tree root, rock, footing, etc.)
 - This causes the rotational force of the engine to move the lower assembly instead of the auger. **Risk of injury!**
To prevent sharp rotational force, observe the following:
 - Back ream often. The natural motion of forward and backward with the machine every 3-5" helps to mitigate auger jams.
 - Keep the boring trench narrow. A trench that is just wide enough for the SiBore Drill horizontal auger can help stop the rotational force due to a jamb.

Working behavior / Method of working

- Check the integrity of the auger and drill tips before and after fitting it on the machine.
- Allow enough time before your project to call the below-grade locating service in your area to reveal any utilities that may be within the path of your boring project. **Electric shock warning!**

Working behavior / Method of working (cont.)

- Before starting work, check the work area for any hazards (loose vegetation, electrical wires, inflammable substances). Clearly mark the work area (for example with warning signs or by cordoning off the area).
- When working with the horizontal auger, hold it firmly by the left and right handles. Never leave the boring machine unattended!
- Only use the horizontal auger during good light and visibility periods. Be aware of slippery or wet areas, and of ice and snow (risk of slipping).
- Never work on unstable surfaces. Make sure that there are no obstacles in the work area, risk of stumbling. Always ensure that you have a safe footing.
- Never bore above your waist height.
- Do not lean over too far when working. When putting down and picking up the boring machine, do not bend over from the waist, but instead bend in the knees. Save your back!
- Guide the boring machine in such a way that no part of your body is within the extended reach of the universal joint, auger and extensions.
- Use the horizontal auger only for the materials for which it is designed. Do not attempt to bore through solid rock, concrete or large tree roots.
- **Important!** Before boring, remove all loose foreign objects, such as loose rocks, gravel, vegetation, etc. from the digging area. Otherwise, such objects can be flung away by the auger with great speed. **Injury hazard!**
- Restrict consistent use to 30 minutes to avoid vibration-related vascular phenomena. **Injury hazard!**

Always observe the following when digging in soil

- Put the fully assembled SiBore Drill horizontal auger into the trench with the auger pointing toward the direction you wish to bore.
- With the machine firmly on the ground, start the engine.
- Align the point of the boring machine with the vertical wall under the hard surface.
 - Ensure the auger and main drive shaft is level
 - **NOTE:** The longer the horizontal distance of the bore, the more crucial it is for the auger and main drive shaft to be level. One degree (1°) of misalignment can cause inches to feet of misalignment at the other end of the bore.
- With both hands firmly holding the engine by the handles, turn or depress throttle for appropriate rotation of the auger.

- **REMEMBER TO BACK REAM OFTEN!!!** While the throttle is open and auger is spinning, pull firmly backwards removing the spoils from the bore. Do this every 3-5" of forward movement when the auger is not visible. Back reaming often puts less stress on the engine, operator and makes the job go faster!
- After prolonged use in abrasive soils, auger, extensions, and lower unit can become hot to the touch. **DO NOT** touch hot augers, extensions, or lower unit without wearing appropriate Personal Protection Equipment such as leather gloves. **Injury risk!**

CAUTION!

When digging near concrete slabs or curbing, be prepared for the machine to twist quickly and forcefully if the auger jams. Make sure you can get out of the way if you have to!

Observe the accident-prevention rules and regulations of your employer and/or insurance organization.

Transport and storage

- **Always turn off the horizontal auger when transporting it or moving it from place to place on a site.**
- **Never carry or move the unit with the engine on or the auger moving!**
- Carry the unit only by the engine handles and square tube support with unit in front of you. Avoid touching the exhaust muffler (burn hazard!).
- When moving the horizontal auger over long distances, use a wheelbarrow or wagon.
- When transporting the boring machine in a vehicle, make sure it is securely positioned in such a way that no fuel can leak out. Always remove the auger and extensions before transporting the unit in a vehicle. Before transporting in a vehicle, allow the horizontal auger to cool off completely. Note: Mufflers with catalytic converters take longer to cool off!
- The horizontal auger should be stored safely in a dry place. It must not be left outdoors! Always remove the auger and extensions before storage. Keep the boring machine away from children.
- **Before long-term storage and before shipping the horizontal auger, follow the instructions in the chapter on "Periodic care and maintenance".**
ALWAYS remove the battery / empty the fuel tank and run the carburetor dry.

Transport and storage (cont.)

- When putting augers in storage, be careful to:
 - Clean and dry them well.
 - Cover augers, boring rods, and extensions in a light oil or water displacement product like WD40®.
 - **Always check new augers or augers that have been in storage to make sure that they are free of defects** and before the first bore, test-run at top speed for at least 60 seconds. Keep body parts and people well away out of range of the direction of the auger during the test.

Maintenance

- **Before performing maintenance work, switch off the horizontal auger and pull out the plug cap / remove the battery.**
- **Allow the boring machine to cool off before doing any maintenance work (burn hazard)!**
 - **Engines with catalytic converters take longer to cool down!**
- Always check the horizontal auger before using it to make sure that it is in good working order. In particular, make sure the lower unit, extensions and auger are properly mounted. Make sure that the auger is undamaged and suitable for the job it will be used for.
- **For engine/motor maintenance, refer to your specific engine/motor operator's and safety manual.**
- Clean the boring machine regularly.

Observe the accident prevention instructions issued by trade associations and insurance companies. NEVER make any modifications to the SiBore™ Drill horizontal auger or its accessories! You will only be putting your own safety at risk!

Perform only the maintenance and repair works described in the operator's manual. All other work must be carried out by the engine/motor manufacturer or MiniTrencher Service.

Use only MiniTrencher-approved engines/motors indicated on the SiBore Drill packaging.

Maintenance (cont.)

The use of non-MiniTrencher approved engines/motors increases the risk of accident. We cannot accept any responsibility for accidents or damage occurring in association with the use of engines or motors other than those approved by MiniTrencher.

Use only original MiniTrencher spare parts and accessories.

The use of non-MiniTrencher spare parts, or accessories increases the risk of accident. We cannot accept any responsibility for accidents or damage occurring in association with the use of spare parts or accessories other than original MiniTrencher.

First Aid

For the event of a possible accident, please make sure that a first aid kit is always immediately available close by. Immediately replace any items used from the first aid box.

When calling for help, give the following information:

- Place of accident
- What happened
- Number of injured people
- Kind of injuries
- Your name!

NOTE

Individuals with poor circulation who are exposed to excessive vibration may experience injury to blood vessels or the nervous system.

Vibration may cause the following symptoms to occur in the fingers, hands or wrists: "Falling asleep" (numbness), tingling, pain, stabbing sensation, alteration of skin color or of the skin. If any of these symptoms occur, see a physician!

Disposal and environmental protection

Be mindful of the environment!

Dispose of worn-out or defective augers, extensions, drill tips, and batteries (if applicable) in accordance with your local disposal regulations. To protect unusable boring parts from misuse, destroy them before disposal.

When the horizontal auger is worn out or damaged beyond repair, have it disposed of or recycled in an environmentally sound manner. If necessary, consult your local authorities.



Check with local authorities for any underground services.

CALL 811 BEFORE YOU DIG

In rural areas, check with landowners who may have a detailed knowledge of utility location.

In many locations (along road sides and near subdivisions) surface re-grading may have occurred after utilities were laid. This can result in cables or other utilities appearing unexpectedly at shallower depths than regulations require. Stop boring if something doesn't look or feel right.

Technical data

For engine technical data refer to the engine manufacturer’s Owner’s and safety manual.

	SB215	SB215e
MiniTrencher-approved powerhead	General 242H Epic Series (Honda GX35)	Makita® GGD01M1
Maximum recommended boring depth (horizontal distance)	24.0 feet [120 cm]	24.0 feet [120 cm]
Number of Drill Tips	2	2
Number of Wire Swivels	1	1
Number of 36" Drill Rods	8	8
Number of Couplers	9	9
Adapter needed?	No	Yes, Included

	SB216	SB216e
MiniTrencher-approved powerhead	General 242H Epic Series (Honda GX35)	Makita® GGD01M1
Maximum recommended boring depth (horizontal distance)	12.0 feet [60 cm]	12.0 feet [60 cm]
Augers Provided	2" [5 cm], 4" [10 cm]	2" [5 cm], 4" [10 cm]
Number of 32" Extensions	3	3
Adapter needed?	No	Yes, Included

	SB431	SB431e
MiniTrencher-approved powerhead	General 242H Epic Series (Honda GX35)	Makita® GGD01M1
Maximum recommended boring depth (horizontal distance)	24.0 feet [120 cm] 1" Drill Tip 12.0 feet [60 cm] Augers	24.0 feet [120 cm] 1" Drill Tip 12.0 [60 cm] Augers
Number of Drill Tips	2	2
Number of Wire Swivels	1	1
Number of 36" Drill Rods	8	8
Number of Couplers	9	9
Augers Provided	2" [5 cm], 4" [10 cm]	2" [5 cm], 4" [10 cm]
Number of 32" Extensions	3	3
Adapter needed?	No	Yes, Included

Instructions for periodic maintenance

To ensure long life, prevent damage and ensure the full functioning of the safety features the following maintenance must be performed regularly. Guarantee claims can be recognized only if this work is performed regularly and properly. Failure to perform the prescribed maintenance work can lead to accidents!

Users of the SiBore Drill horizontal auger must not perform any maintenance work not described in this operator's manual. All such work must be carried out by a MiniTrencher™ service center or the original engine/motor manufacturer.

Service, spare parts and warranty

Maintenance and repair

The maintenance and repair of SiBore Drill horizontal auger and its safety-related components require qualified technical training and a workshop equipped with special tools and testing services.

We therefore recommend that you consult a MiniTrencher service center for all work not described in this operator's manual.

The MiniTrencher service centers have all the necessary equipment and skilled and experienced personnel, who can work out cost-effective solutions and advise you in all matters.

Please contact your nearest service center (see online at www.minitrencher.com) or the general trading company or importer, who will gladly provide you with the address of your nearest MiniTrencher service center.

Spare parts

Reliable long-term operation, as well as the safety of your SiBore Drill, depend on the quality of the spare parts used. Use only original MiniTrencher parts.

Only original parts are from the same production line as the original unit and therefore ensure the highest possible quality of materials, dimensions, functioning and safety.

Only original spare parts and accessories guarantee the highest quality in material, dimensions and function.

Original spare parts and accessories can be obtained from your local dealer. They will also have the spare part lists to determine the required spare part numbers and will be constantly informed about the latest improvements and spare part innovations.

Please bear in mind that if parts other than original MiniTrencher spare parts are used, this will automatically invalidate the MiniTrencher product guarantee.

We will furthermore not accept any liability damages arising from the use of Non-MiniTrencher spare parts.

For all engine-related parts, please refer to your engine/motor owner's manual and consult the original engine manufacturer.

WARRANTY

ONE YEAR MINITRENCHER LIMITED WARRANTY

1. TERRATRENCH USA, INC dba MINITRENCHER (MiniTrencher) WILL REPAIR OR REPLACE, AT ITS OPTION, ANY NEW MINITRENCHER PRODUCT WHICH FAILS DUE TO A DEFECT IN MATERIALS OR WORKMANSHIP DURING THE APPLICABLE WARRANTY PERIOD SPECIFIED IN SECTION 2 BELOW, SUBJECT TO THE EXCLUSIONS AS NOTED IN SECTION 3.
2. THE WARRANTY PERIOD APPLICABLE TO NEW MINITRENCHER PRODUCTS, DEPENDING ON THE END USE OF THE PRODUCT AND PRODUCT TYPE, WITH COVERAGE COMMENCING FROM THE DATE OF SALE, IS ONE YEAR.
3. THIS WARRANTY DOES NOT IN ANY WAY COVER:
 - NORMAL WEAR AND TEAR
 - FAILURE ARISING FROM IMPROPER USE OF THE PRODUCT
 - FAILURE ARISING FROM IMPROPER ASSEMBLY, MAINTENANCE OR STORAGE
 - FAILURE ARISING FROM THE USE OF PARTS NOT MANUFACTURED OR SUPPLIED BY MINITRENCHER OR ITS AUTHORIZED AGENTS
4. MINITRENCHER DOES NOT WARRANTY ANY ENGINES OR MOTORS ASSOCIATED WITH SIBORE DRILL PRODUCTS. PLEASE SEE ENGINE/MOTOR MANUFACTURER WARRANTY.
5. SHOULD ANY TROUBLE DEVELOP DURING THE ONE YEAR PERIOD, RETURN THE COMPLETE PRODUCT, FREIGHT PREPAID BY USER, TO ONE OF MINITRENCHER’S FACTORY OR AUTHORIZED SERVICE CENTERS. IF INSPECTION SHOWS THE TROUBLE IS CAUSED BY DEFECTIVE WORKMANSHIP OR MATERIAL, MINITRENCHER WILL REPAIR (OR AT OUR OPTION, REPLACE) WITHOUT CHARGE TO THE EXTENT ALLOWABLE. TO FIND A FACTORY OR AUTHORIZED SERVICE CENTER, PLEASE CONTACT MINITRENCHER AT 877-694-0141.
6. THE SAFE AND CORRECT USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER. MINITRENCHER WILL NOT BE LIABLE TO ANY PURCHASER OR ANY OTHER PERSON FOR ANY LOSS OF PROFITS OR ANY CONSEQUENTIAL, INDIRECT OR SPECIAL LOSS, DAMAGE OR INJURY OF ANY KIND, HOWEVER CAUSED, (INCLUDING NEGLIGENCE) ARISING DIRECTLY OR INDIRECTLY FROM OR IN CONNECTION WITH ANY MINITRENCHER PRODUCT AND/OR ANY FAILURE OF OR ANY FAULT IN ANY MINITRENCHER PRODUCT. BY WAY OF EXPLANATION, WE ARE NOT LIABLE IF YOU CAUSE OR SUFFER DAMAGE, INJURY OR LOSS WHEN USING A MINITRENCHER PRODUCT.
7. IN NO EVENT SHALL MINITRENCHER BE LIABLE FOR (A) ANY INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES ARISING FROM THE SALE OR USE OF THE PRODUCTS SOLD UNDER THESE WARRANTIES, OR (B) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID TO MINITRENCHER FOR THE PRODUCTS SOLD HEREUNDER. THIS LIMITATION APPLIES BOTH DURING AND AFTER THE TERMS OF THE WARRANTY.
8. MINITRENCHER DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF “MERCHANTABILITY” AND “FITNESS FOR A SPECIFIC PURPOSE” AFTER THE EXPIRATION OF ANY EXPRESS WARRANTY.
9. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

MiniTrencher guarantees the highest quality and will therefore reimburse all costs for repair by replacement of damaged parts resulting from material or production faults occurring within the warranty period after purchase. Please note that in some countries particular conditions may exist. If you have any questions, please contact your salesman, who is responsible for the guarantee of the product.

Please note that we cannot accept any responsibility for damage caused by:

- Disregard of the operator's manual.
- Non-performance of the required maintenance and cleaning.
- Incorrect adjustments.
- Normal wear and tear.
- Obvious overloading due to permanent exceeding of the upper performance limits.
- The use of other than original MiniTrencher replacement parts.
- Use of force, improper use, misuse or accidents.
- Damage from overheating due to improper cleaning.
- Work on the SiBore Drill horizontal auger by unskilled persons or inappropriate repairs.
- Use of unsuitable spare parts or parts which are not original MiniTrencher parts, insofar as they have caused the damage.
- Damage related to conditions arising from lease or rent contracts.
- Damages caused by disregarding loose outer bolted connections.

Cleaning, servicing, and adjustment work is not covered by the warranty. All repairs covered by the warranty must be performed by a MiniTrencher service center.

Troubleshooting

- **REMEMBER TO BACK REAM OFTEN!!!** While the throttle is open and auger is spinning, pull firmly backwards removing the spoils from the bore. Do this every 3-5" of forward movement when the auger is not visible. Back reaming often puts less stress on the engine, operator and makes the job go faster!
- The longer the horizontal distance of the bore, the more crucial it is for the auger and main drive shaft to be level. One degree (1°) of misalignment can cause inches to feet of misalignment at the other end of the bore.
- If you get stuck, lay the SiBore Drill on its side and use the pullout ring at the base of the unit. Connect a 3'-4' rope or chain to the pullout ring. Wrap the rope or chain around a spud bar. Use the leverage of the spud bar to pull the SiBore Drill straight back.
- If drill is stuck, NEVER USE HYDRAULIC OR POWERED EQUIPMENT TO ASSIST IN PULLING THE SIBORE DRILL OUT. This will void the warranty.
- If additional troubleshooting is needed, please call 877-694-0141.

Assembly Instructions

Need help assembling your SiBore Drill horizontal auger? Scan the QR Code below with your smartphone to find videos on how-to assemble the best horizontal auger on the market. If you do not have the ability to scan, follow the web address below to the same page!



<https://minitrencher.com/pages/product-assembly>

REPLACEMENT PARTS FOR SIBORE™ DRILL

SB2000 2" Auger

SB3000 3" Auger

SB4000 4" Auger

SB6000 6" Auger

SB8000 8" Auger

SB3200 32" Extension
w/ Hardware - Used for SB216 systems

SB3600 36" MicroBore Drill Rod
w/ Coupling Nut - Used for SB215 MicroBore systems

SB1000 1" MicroBore Drill Tip
w/ Coupling Nut - Used for SB215 MicroBore systems

SB1250 MicroBore Coupling Nut
Used for SB215 MicroBore systems

SB1500 MicroBore Swivel Tip
w/ Coupling Nut - Used for SB215 MicroBore systems

EU DECLARATION OF CONFORMITY

No.: 8152023172

Manufacturer:

Company name: TerraTrench USA, Inc. dba MiniTrencher
Street: 815 NE 172nd Avenue
City: Vancouver
Postal Code: 98684
State/County/Province: Clark County, Washington State
Country: United States of America
Phone: +1 (877) 694-0141

Person authorized to compile the Technical File:

Company name: Lochmans.com S.R.O.
Street: Zelezná 92
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Postal Code: 266 01
State/County/Province:
Country: Czech Republic
Phone: +42-602-210-413

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

Object(s) of the declaration:

*SiBore Drill Horizontal Auger
Models SB215, SB215e, SB216, SB216e, SB431, SB431e*

The object of the declaration described above is in conformity with the relevant Community harmonization legislation:

Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (in short referred to as "the Machinery Directive")

References to the relevant harmonised standards used or references to the specifications in relation to which conformity is declared:

EN ISO 12100:2010

Additional information:

Signed for and on behalf of TerraTrench USA, Inc.
Vancouver, Clark, Washington 1st Day of May, 2023
Peter Blundell, President

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