



Bucket Screener (GBS)

SAFETY & OPERATOR'S MANUAL



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PREFACE

To ensure years of safe, dependable service, only trained and authorized persons should operate and service your Genesis attachment. It is the responsibility of the product's owner to ensure the operator is trained in the safe operation of the product and has this manual available for review. It is the responsibility of the operator and maintenance personnel to read, fully understand and follow all operational and safety-related instructions in this manual. The attachment should not be operated until you have read and fully understand these instructions. Always use good safety practices to protect yourself and those around you.

Important

This operator's manual must accompany the attachment at all times and be readily available to the operator.

Manual Replacement

Should this manual become damaged or lost or if additional copies are required, immediately contact any authorized Genesis dealer or the Genesis Service Department at 888-743-2748 or 715-395-5252 for a replacement.

Registration Form

The Warranty Registration Form must be filled out by the dealer or customer and returned to Genesis indicating the date the attachment went into service.

Possible Variations

Genesis cannot anticipate every possible circumstance that might involve a potential hazard, as the owner's requirements and equipment may vary. Therefore, the warnings in this publication and on the product may not be all-inclusive, and you must satisfy yourself that the procedure, application, work method or operating technique is safe for you and others before operating.

Public Notice

Genesis reserves the right to make changes and improvements to its products and technical literature at any time without public notice or obligation. Genesis also reserves the right to discontinue manufacturing any product at its discretion at any time.

Warranty

All work or repairs to be considered for warranty reimbursement must be pre-authorized by the Genesis Service Department. Any alterations, modifications or repairs performed before authorization by the Genesis Service Department will render all warranty reimbursement consideration null and void without exception. See page 40 for Warranty Claim Procedures.

Improper operation or improperly performed maintenance may render any warranty null and void.

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SAFETY STATEMENTS



This symbol by itself or used with a safety signal word throughout this manual is used to call attention to instructions involving your personal safety or the safety of others. Failure to follow these instructions can result in injury or death.



This statement is used where serious injury or death will result if the instructions are not followed properly.



This statement is used where serious injury or death could result if the instructions are not followed properly.



This statement is used where minor or moderate injury could result if the instructions are not followed properly.

NOTICE

This statement is used where property damage could result if the instructions are not followed properly.

GENERAL SAFETY PRECAUTIONS

Read Manual Prior to Operation

Improper installation, operation or maintenance of this equipment could result in serious injury or death. Operators and maintenance personnel should read this manual, as well as all manuals related to this equipment and the excavator thoroughly before beginning installation, operation or maintenance. **FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND THE EXCAVATOR MANUAL(S).**

Read and Understand All Safety Statements

Read all safety decals and safety statements in all manuals prior to operating or working on this equipment. Know and obey all OSHA regulations, local laws and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing or operating this equipment.

Know Your Equipment

Know your equipment's capabilities, dimensions and operations before operating. Visually inspect your equipment before you start, and never operate equipment that is not in proper working order with all safety devices intact. Check all hardware to ensure it is tight. Make certain all guards, locking pins, latches and connection devices are properly installed and secured. Remove and replace any damaged, fatigued or excessively worn parts. Make certain all safety decals are in place and legible. Keep decals clean and replace if they become worn or hard to read.



WARNING

Serious injury or death could result if warnings or instructions regarding safe operation are not followed.

Protect Against Flying Debris

Always wear proper personal protective equipment when driving pins in or out, or when any operation causes dust, flying debris or any other hazardous material. The GBS Bucket Screener may cause severe injuries. Never stand within operating range.

Lower or Support Raised Equipment

Do not work under raised booms without supporting them. Do not use support material made of concrete blocks, logs, buckets, barrels or any other material that could suddenly collapse or shift positions. Make sure support material is solid and not decayed, warped, twisted or tapered. Lower booms and attachments to the ground before leaving the cab.

GENERAL SAFETY PRECAUTIONS

Do Not Modify Excavator or Attachment

Modifications may weaken the integrity and impair the function, safety, life and performance of the attachment. When making repairs, use only the manufacturer's genuine parts, following maintenance instructions. Other parts may be substandard in fit and quality. Never modify any ROPS (Roll Over Protective Structure) or FOPS (Falling Object Protective Structure) equipment or device. Any modifications must be authorized in writing by the manufacturer.

Safely Maintain and Repair Equipment

- Do not wear loose clothing or any accessories that can catch in moving parts. If you have long hair, cover or secure it so it does not become entangled in the equipment.
- Work on a level surface in a well-lit area.
- Use properly grounded electrical outlets and tools.
- Use the correct tools for the job. Make sure they are in good condition for the task required.
- Wear proper protective equipment.

Safely Operate Equipment

Do not operate equipment until you are completely trained by a qualified operator in how to use the controls and know its capabilities, dimensions and all safety requirements. See your excavator manual for these instructions.

- Keep all step plates, grab bars, pedals and controls free of dirt, grease, debris and oil.
- Never allow people or animals to be around the equipment when it is operating.
- Do not allow riders on the attachment or excavator.
- Do not operate equipment from anywhere other than the correct operator's position.
- Never leave equipment unattended with the engine running or the attachment in a raised position.
- Do not alter or remove any safety feature from the excavator or attachment.
- Know your work site safety rules as well as traffic rules and flow. When in doubt on any safety issue, contact your supervisor or safety coordinator for an explanation.
- Incorrect use of the machine and/or improper maintenance carry risks that can cause serious injury or death.

OPERATIONAL SAFETY



WARNING

Serious injury or death could result if warnings or instructions regarding hydraulic fluid pressure are not followed properly.

Use Care with Hydraulic Fluid Pressure

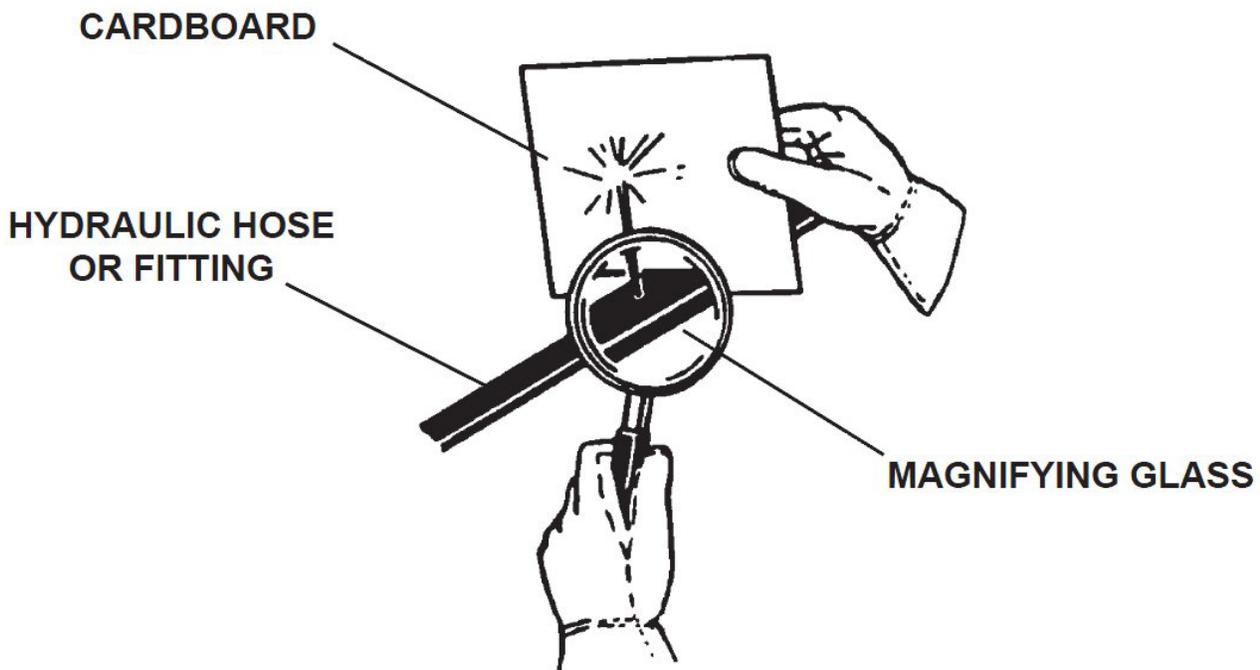
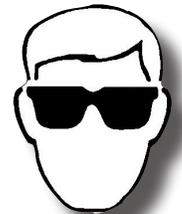
Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible.

- ✓ Keep unprotected body parts, such as face, eyes and arms as far away as possible from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent injuries.
- ✓ If injured by injected fluid see a doctor immediately.
- ✓ Wear safety glasses and protective clothing and use a piece of cardboard or wood when searching for hydraulic leaks.



Do Not Use Your Hands!
See illustration below.

- ✓ Hydraulic oil becomes hot during operation. Do not let hydraulic oil or components contact skin, as it could cause severe burns. Allow hydraulic components to cool before working on them. Use appropriate protective clothing and safety equipment. If burned, seek immediate medical attention.



OPERATIONAL SAFETY

Know Where Utilities Are

Observe overhead electrical and other utility lines. Be sure equipment will clear them. When digging, call your local utilities for location of buried utility lines, gas, water and sewer, as well as any other hazard you may encounter.

The use of dust suppression, dust collection and personal protective equipment is recommended during the operation of any attachment that may cause high dust levels.



WARNING

Exposure to respirable crystalline silica dust along with other hazardous dusts may cause serious or fatal respiratory disease.

Misuse

The GBS Bucket Screener may only be operated as intended. Intended use also includes compliance with the operating, maintenance and servicing conditions established by the manufacturer.

Any use other than or beyond that specified is regarded as improper. The manufacturer shall not assume any liability for damage resulting from improper use. The risk for any such damage shall be borne by the user.

The following are improper uses of the GBS.

- Operating with parameters (for example, oil pressure) that are outside the specified limits.
- Operating with excavators for which it is not designed.
- Operating while people who have not received any safety instructions are in the hazardous area.
- Operating in potentially explosive atmospheres.

Any use other than or beyond that stated above, such as with higher power values, at higher or lower speeds, in inappropriate operating conditions or following any structural modifications is regarded as improper.

OPERATIONAL SAFETY

This equipment is to be fitted on earthmoving machinery/excavators. It is made of a metal main-frame containing a screener drum with various screener plates.

The desired final product classification can be achieved by using different mesh sizes for the screener plates.

Name Plate

The name/type plate contains the following information.

- Serial No.
- Type
- Year
- Capacity
- Oil
- Weight

NOTICE

Check if your excavator is sized to operate with the bucket screener. See page 15.

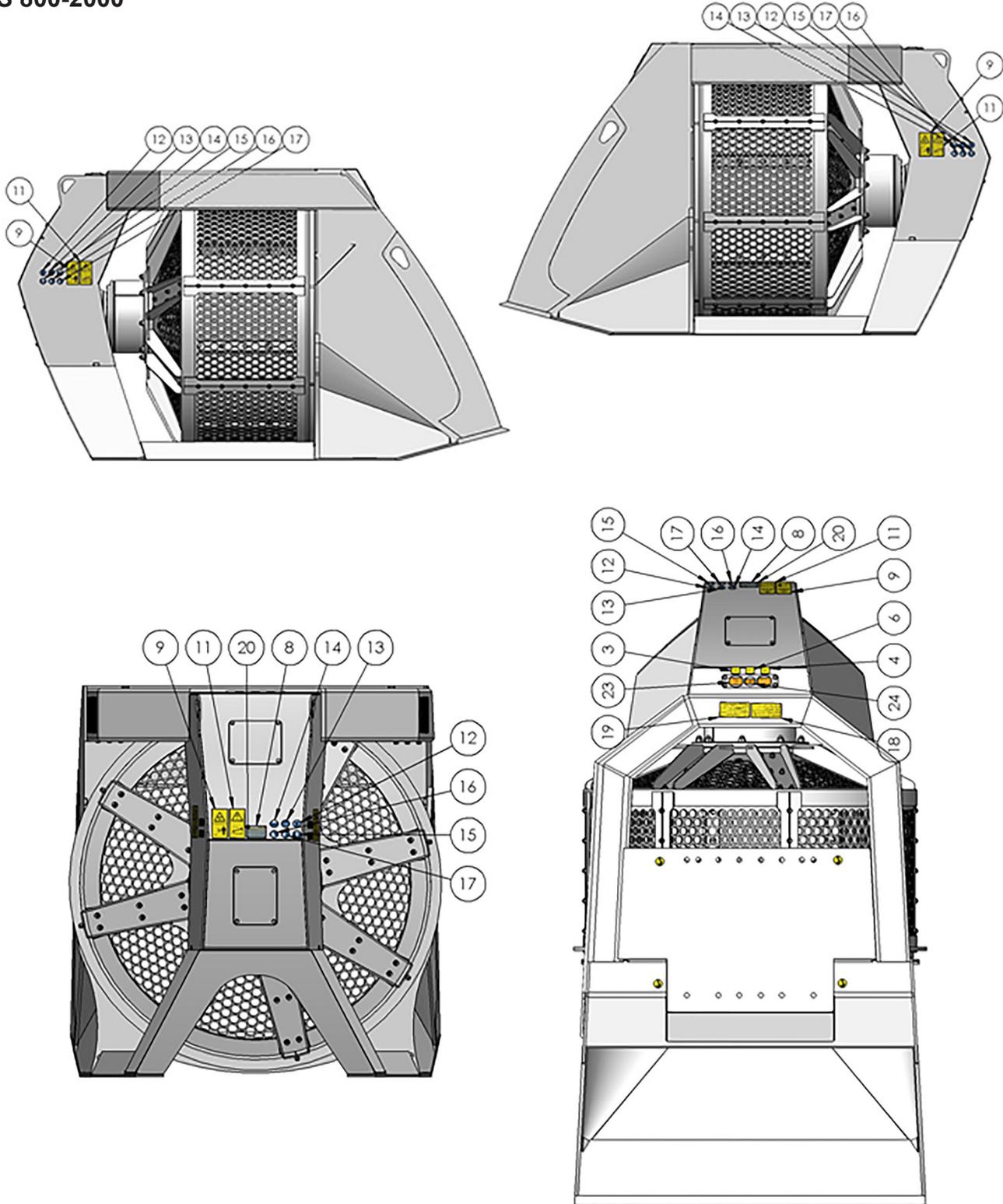
When contacting Genesis for assistance, be sure to have your GBS serial number available.

OPERATIONAL SAFETY

PPE, Caution and Warning Decals

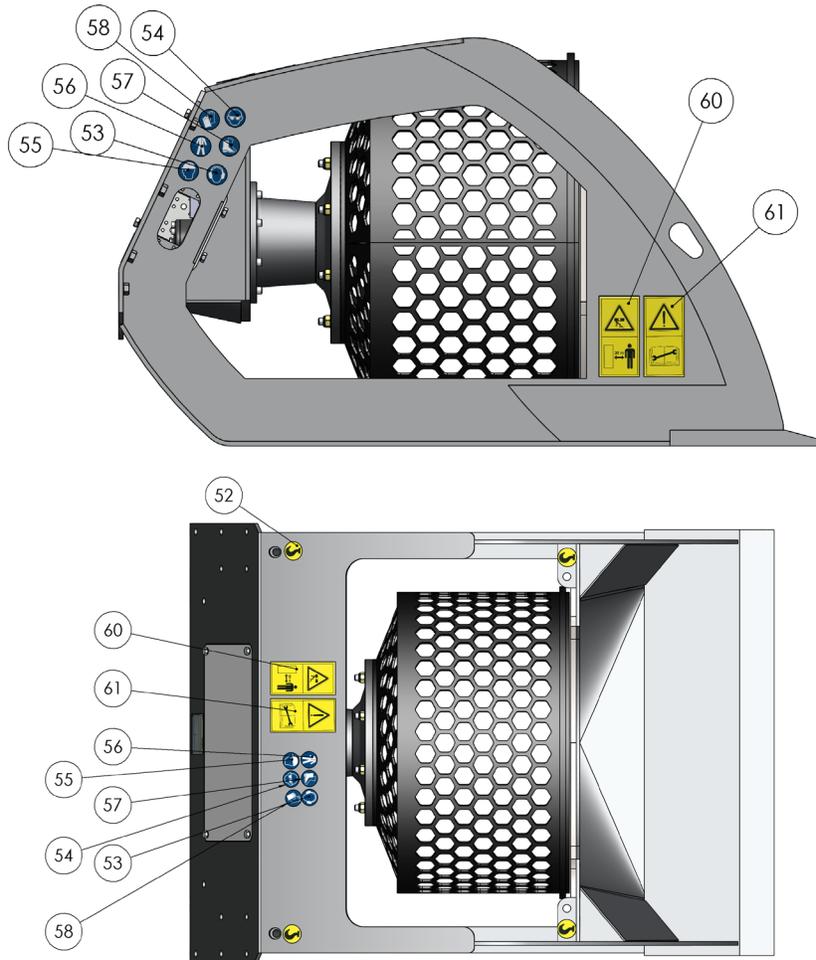
The GBS has been designed and built to be operated in a safe and effective manner. PPE, caution and warning decals required for use are clearly positioned and securely attached. Should any of these decals become damaged or removed, replace as soon as possible.

GBS 800-2000



OPERATIONAL SAFETY

GBS 600



Personal Protective Equipment (PPE)

The following personal protective equipment must be worn during GBS operation.

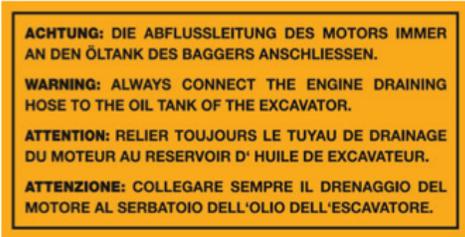
PPE	Position (GBS 800-2000/GBS 600)	PPE	Position (GBS 800-2000/GBS 600)
	12/53: Use hearing protection.		15/56: Wear protective clothing.
	13/54: Use eye protection.		16/58: Wear protective gloves.
	14/55: Wear a hard hat.		17/57: Wear safety shoes

OPERATIONAL SAFETY

Caution Decals

Decal	Position (GBS 800-2000/GBS 600)	Decal	Position (GBS 800-2000/GBS 600)
	2/52: Lifting point, use the indicated lifting points only		6: Drain line of hydraulic oil motor to the excavator, MUST have zero pressure at all times.
	3: Inlet coupling/flange of hydraulic oil hose		9/60: Stay at least 33 yards away from the screener during operation. Operator has to block off the danger zone. Risk of injury from crushed material and the GBS tipping is present.
	4: Outlet coupling/flange of hydraulic oil hose		19/61: Read and understand operating manual prior to installation and operation
	5: Drain line of hydraulic oil motor to the excavator, MUST have zero pressure at all times.		21: Do not rip, dig or excavate with the GBS. Danger of mainframe deformation or damage.

Warning Decals

Decal	Position (GBS 800-2000)
	18: Correct installation and connection of the drain line.
	19: Important hydraulic oil information

SPECIFICATIONS

Description	Unit	GBS 600*	GBS 800	GBS 1200	GBS 1600	GBS 2000
Recommended excavator weight	lbs (ton)	6,600 (3)	20,000 (9)	30,000 (14)	50,000 (23)	90,000 (41)
Screener length	in (mm)	64.6 (1640)	≥ 70.5 (1830)	≥ 94.1 (2640)	≥ 123.6 (3250)	≥ 147.2 (3900)
Screener width	in (mm)	45.3 (1150)	≥ 36.8 (1200)	≥ 53.3 (1440)	≥ 72.8 (1850)	≥ 87 (2450)
Screener height	in (mm)	35.8 (910)	≥ 46.9 (1120)	≥ 63 (1650)	≥ 83.9 (2150)	≥ 87.8 (2250)
Screener weight	lbs (kg)	1323 (600)	≥ 1420 (640)	≥ 2690 (1250)	≥ 5120 (2350)	≥ 10140 (4600)
Screener capacity	cu yds (m ³)	0.3 (0.25)	≥ 0.3 (0.25)	≥ 1 (0.80)	≥ 2.5 (1.91)	≥ 4.4 (3.36)
Screener capacity total	ISO 7451:2007 Vr cu yds (m ³)	0.8 (0.61)	≥ 0.7 (0.51)	≥ 2.1 (1.6)	≥ 4.8 (3.67)	≥ 7.8 (5.96)
Screener drum depth	in (mm)	19.7 (500)	≥ 19.7 (500)	≥ 29.5 (750)	≥ 43.3 (1100)	≥ 43.3 (1100)
Screener drum diameter	in (mm)	31.5 (800)	≥ 31.5 (800)	≥ 47.2 (1200)	≥ 63 (1600)	≥ 78.7 (2000)
Hydraulic oil type	DIN 51524	HLP, automatic transmission Type A, API CD engine oil				
Hydraulic oil pressure	psi (bar)	1885 (130)	1885 (130)	2466 (170)	2466 (170)	2466 (170)
Hydraulic oil volume max.	gpm (lpm)	5.3 (20)	6.6 (25)	15.9 (60)	19.8 (75)	19.8 (75)
Hydraulic oil drain max.	psi (bar)	N/A			218 (15)	218 (15)
Grease type	DIN 51825	KP2G-20				

* Skid steer model

For detailed information on attachment classifications, follow the excavator manufacturer's guidelines.

NOTICE

Always consult and obey your machine's lifting capability guidelines to ensure safe operation of the screener.

SPECIFICATIONS

Screw Torque

The data below refer to DIN 267 metric thread. Use a suitable torque wrench.

Screw Size Class	Hexagon Size [in]	Thread		8.8		10.9		12.9	
		Coarse [n/1"]	Fine [n/1"]	Coarse [ft lb]	Fine [ft lb]	Coarse [ft lb]	Fine [ft lb]	Coarse [ft lb]	Fine [ft lb]
M8	0.5	20.3	25.4	18.4	19.9	25.8	28.0	42	46
M10	0.7	16.9	20.3	36.9	39.1	51.6	54.6	84	89
M12	0.7	14.5	16.9	62.7	65.6	87.8	92.2	143	150
M14	0.9	12.7	16.9	99.6	109.2	140.1	153.4	228	250
M16	0.9	12.7	16.9	156.4	166.7	219.8	234.6	357	382
M18	1.1	10.2	12.7	213.9	228.7	296.5	321.6	490	523
M20	1.2	10.2	12.7	304.6	321.6	427.8	452.9	697	736
M22	1.3	10.2	12.7	419.0	440.3	588.6	619.6	958	1008
M24	1.4	8.5	12.7	526.6	576.1	740.6	809.9	1204	1317
M27	1.6	8.5	12.7	774.5	840.1	1089.4	1181.6	1772	1923
M30	1.8	7.3	12.7	1054.0	1172.8	1481.8	1649.3	2411	2648
M33	2.0	7.3	12.7	1431.7	1575.5	2012.9	2215.8	3275	3605
M36	2.2	6.4	8.5	1841.8	1956.1	2589.7	2751.2	4213	4476

TRANSPORTING

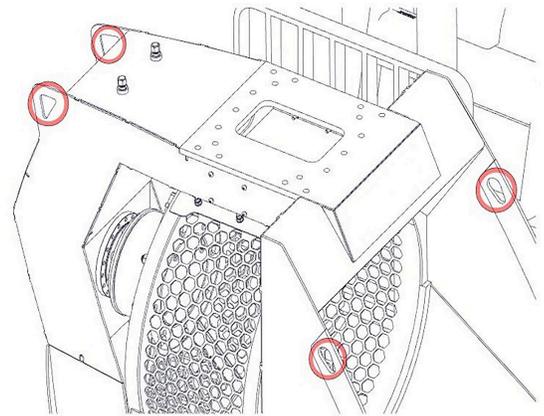
NOTICE

Check if your excavator is sized to operate with the bucket screener. See page 15.

Given the bucket screener's weight and size, it must be handled and transported only by skilled personnel. If the operator does not have a complete view of the bucket screener to be moved, a second person can assist on the ground but out of the earthmoving vehicle's range of action.

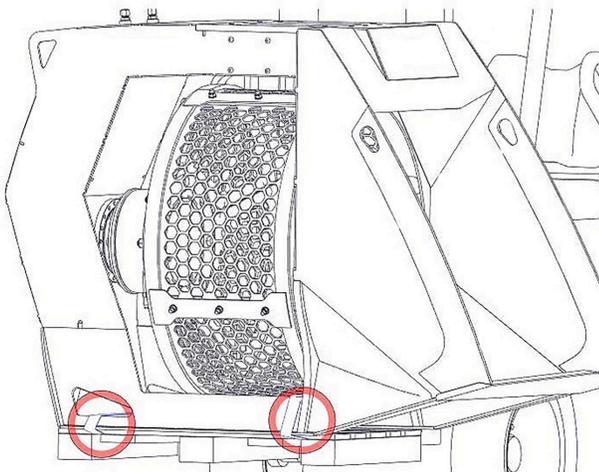
The bucket screener is equipped with lifting points for the insertion of lifting hooks. Make sure the hooks are firmly secured prior to lifting.

Lifting Points

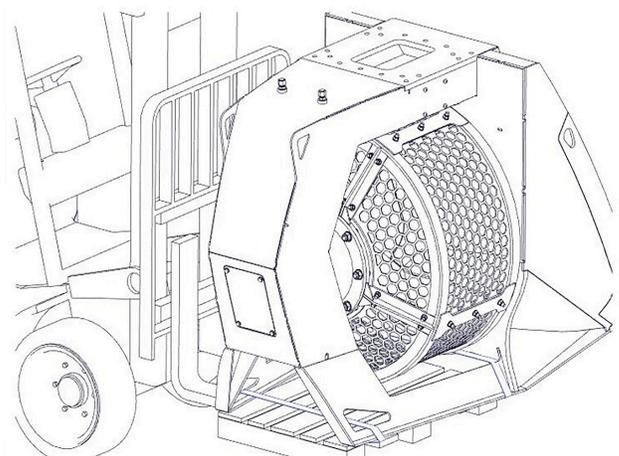


Whenever the bucket screener must be transported, it must be anchored to the loading truck using slings attached to the anchor points. Secure the load restraint tightly, but without damaging the GBS, to prevent the bucket screener from falling off the pallet/skid. Secure the screener drum separately to avoid stresses on the hydraulic motor. Transport carefully and do not tilt the GBS to avoid damage.

Transport Lashing Front



Transport Lashing Rear



If the GBS needs to be stored for more than two months, grease the motor to protect it from dampness, store in a dry place at temperatures between 23°F and 86°F, and protect from dirt, dust and humidity.

OPERATION

NOTICE

Check if your excavator is sized to operate with the bucket screener. See page 15.

The bucket screener is designed and used for screening natural rock, building debris, bitumen, wood chips, sand, recycling, soil and similar materials.

Check for and remove metal before screening.

For continuous screening and best performance of the bucket screener, fill the screener drum to 30% of the total drum capacity. The best screening position is 45° to the horizontal surface.

Never screen flammable materials, explosives, products that create flammable powders, or toxic or harmful substances. The use of bucket screeners is forbidden in potentially explosive environments.

In addition,

- Never break material using the bucket mainframe as a hammer.
- Never use the screener to move material.
- Never use the screener for excavation operations.
- Never use the screener with large metallic materials.
- Never use the screener for non-screenable materials such as humid or damp materials, wood, etc.
- Never use the bucket screener in temperatures above 140°F or less than 14°F.

OPERATION

Failure to follow operating guidelines can result in major problems with the locking wedges, screener drum and screener plates. Continuous improper use can damage the entire structure.



- DO NOT compress material with the bucket screener.
- DO NOT use the bucket screener to break stones or larger material.



- DO NOT use the bucket screener as an excavator bucket. The bucket screener is designed for crushing, NOT digging. Structural damage will occur.
- DO NOT distribute material sideways or in reverse.



- DO NOT lean the excavator on the bucket screener. Structural damage will occur.
- DO NOT use the bucket screener to prop up and move or turn the excavator in any direction.
- DO NOT push/hit the bucket screener on the ground.



- DO NOT use the bucket screener to rip objects from the ground or to rip material from hard stones/rocks.
- DO NOT use the bucket screener to clear or level the site.
- DANGER of ripping.

NOTICE

Do not fill with oversized material as it may block and damage the bucket screener.

OPERATION

General

During operation, the operator must stay on board the excavator, in the position recommended by the manufacturer.



WARNING

All operations must be performed with the excavator and GBS off, the parking brakes applied (if attached to an excavator) and the GBS resting on the ground. ALWAYS wear appropriate PPE. Use only Genesis spare parts.

Before installing the bucket screener, ensure all parts are in good condition and were not damaged during transportation. It is especially important to check that hoses are intact and hydraulic connections are firmly attached.

While being assembled, the bucket screener should be laid firmly on the ground with the excavator's engine shut off and its parking brakes applied.

The bucket screener must be installed in a space large enough to allow the necessary operations to be carried out in a safe environment.

The GBS is supplied without a quick coupler system. The customer must fit it with suitable couplings that comply with current safety standards. Refer to the manufacturer's operation manual.

People and animals must stand at least 33 yards away from the excavator and GBS when in operation.

Check all screws and nuts for damage and tightness before using the GBS.

NOTICE

If the air temperature reaches 14°F, increase the bucket screener temperature by:

- Carrying out working cycles with the machine empty for 20 minutes
- Begin with a light job for 10 minutes



WARNING

- When the quick coupler system is mounted or dismounted, there is a risk of loosening debris. Always wear PPE.
- If the quick coupler system is manual, the help of another person will be required.
- Do not use your fingers to find the center of the holes. If sudden, uncontrolled movements occur, your fingers could be severed.

OPERATION

Hydraulic Connections

The hydraulic connectors provided are equivalent to those supplied for the standard buckets of the excavator on which the fitting is mounted. For a detailed connections explanation, refer to the excavator operation manual.

The hydraulic system is connected by joining the two hydraulic connectors provided in the bucket screener to the corresponding couplings provided on the excavator. The GBS is supplied without hydraulic hoses to the excavator. The customer must fit it with suitable hydraulic hoses and couplings that comply with current safety standards.

The bucket screener is operated using the hydraulic circuit. Hydraulic hose connection fittings are provided. The inlet hose will support a working pressure of 3,625 psi maximum. The return hose must withstand a pressure of 725 psi (for GBS 2000 only). For excavators with hydraulic clutches, connectors may be adapted respectively.

For hydraulic connection details, refer to the hydraulic scheme. See page 22.



WARNING

The excavator outlet pressure must always be as required for the bucket screener in use. DO NOT modify the manufacturer's valve setting.

Verify the hydraulic hoses are in compliance with BS EN ISO 4413.

Do not use the bucket screener without verifying the fitting delivery pressure and the hose assembly delivery pressure are as required.

NOTICE

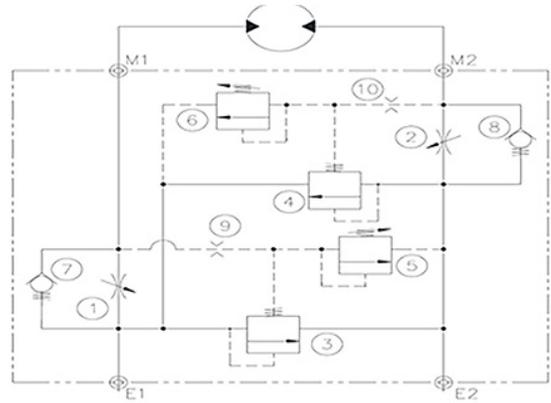
The use of quick-release hydraulic fittings to connect the equipment is not advised. These cause severe hydraulic oil overheating and shorten component life. A possible malfunctioning of the quick-release hydraulic fittings can cause serious damage to the GBS.

OPERATION

Hydraulic Scheme

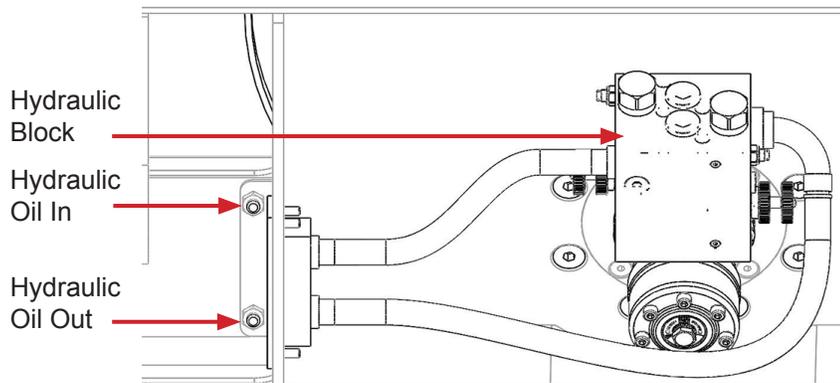
Hydraulic block:

- Maximum pressure: 3,625 psi
- Maximum flow: 32 gpm

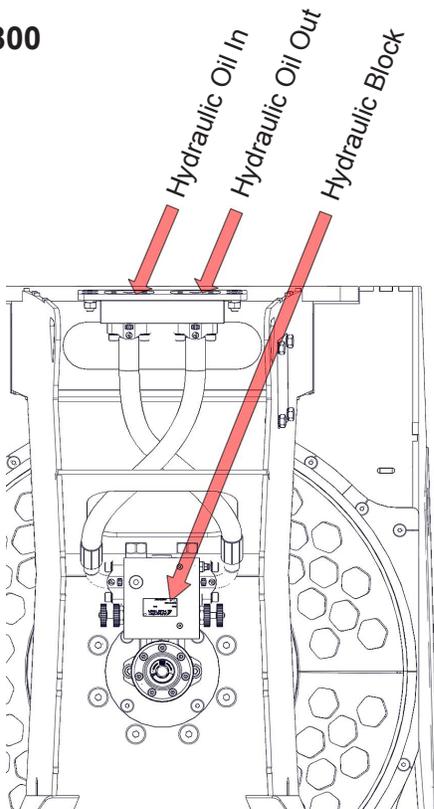


Hydraulic Connection Diagrams

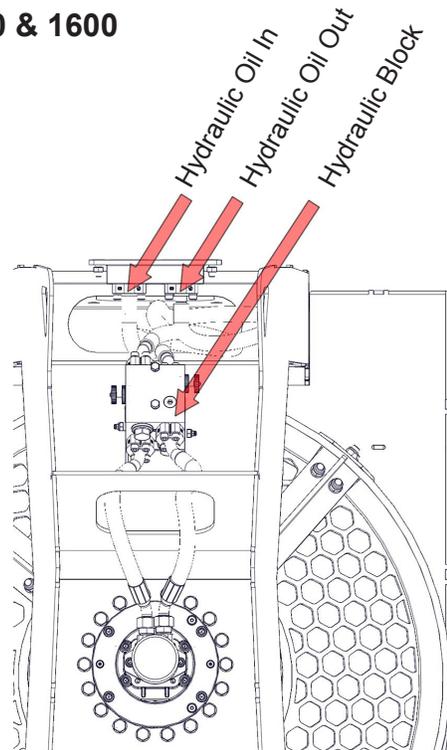
GBS 600



GBS 800

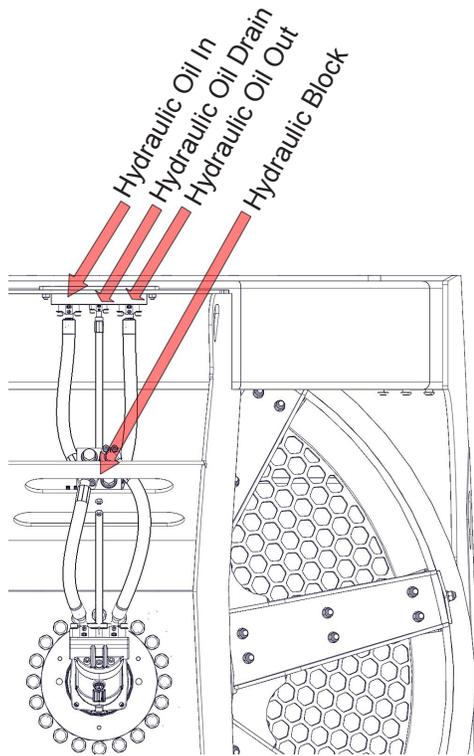


GBS 1200 & 1600



OPERATION

GBS 2000



Hydraulic Port Measurements

Ports	GBS 600	GBS 800	GBS 1200	GBS 1600	GBS 2000
In	1/2" Code 62 6000 psi flange ISO 6162 (SAE J518c)	3/4" Code 62 6000 psi flange ISO 6162 (SAE J518c)			
Out	1/2" 62 6000 psi flange ISO 6162 (SAE J518c)	3/4" Code 62 6000 psi flange ISO 6162 (SAE J518c)	3/4" Code 62 6000 psi flange ISO 6162 (SAE J518c)	3/4" Code 62 6000 psi flange ISO 6162 (SAE J518c)	3/4" Code 62 6000 psi flange ISO 6162 (SAE J518c)
Case Drain	N/A			1/2" Code 61 3000 psi flange ISO 6162 (SAE J518c)	1/2" Code 61 3000 psi flange ISO 6162 (SAE J518c)

OPERATION

Hydraulic Fluids

Ratings and performance data are based on operating with good quality, contaminate-free petroleum-based fluids.

Hydraulic fluid type HLP (DIN 51524), automatic transmission fluid type A, or API CD engine oils can be used.

The following temperatures should not be exceeded: Main circuit 158°F; Drain circuit: 194°F.

NOTE: The temperature should be measured at the utilized drain port. Continuous operation may require case flushing in order to meet the viscosity and temperature limitations.

Viscosity

The ideal operating range is 15 to 30 mm²/s [cSt]. At operating temperature, the viscosity of the drain fluid should be kept above 8 mm²/s [cSt]. At start-up, the viscosity should not exceed 1000 mm²/s [cSt].

Filtration

To obtain the highest service life, the fluid cleanliness should meet or exceed ISO code 20/18/13 (ISO 4406).

NOTICE

Refer to your excavator operating manual for oil specifications.

NOTICE

Hydraulic motor drain line installation: To eliminate any back pressure, the hydraulic motor drain line must be an independent return line piped directly back to the excavator hydraulic oil tank.

OPERATION

Crushing

Complete the connection process. Start the bucket screener slowly and gradually. The rotation control is on the table control in the cab. It ensures the jaw rotation is in the counterclockwise direction as seen when viewed from the side of the transmission.



WARNING

Always consult and obey your machine's lifting capability guidelines to ensure safe operation of the screener.

Let the engine run for a few minutes. In low temperatures, let the engine run about 10 minutes so the oil temperature increases to about 104°F before starting work.

Stop the GBS rotation, make the filling phase and operate command again, slowly and gradually, with the established 28 rpm.

Turn the bucket screener slowly so the discharge opening faces downward to facilitate the exit of the screened material.

When the material inside the GBS is screened, repeat the loading operation.



Stand the excavator on top of the material and load the loose material into the screener. Be careful of metallic material, as it may become trapped in and damage the meshes.

A load capacity of 30-40% provides the best screening results.



Simultaneously lift the GBC to vertical position and turn it on.

OPERATION

While screening, watch for and remove material that may become trapped.

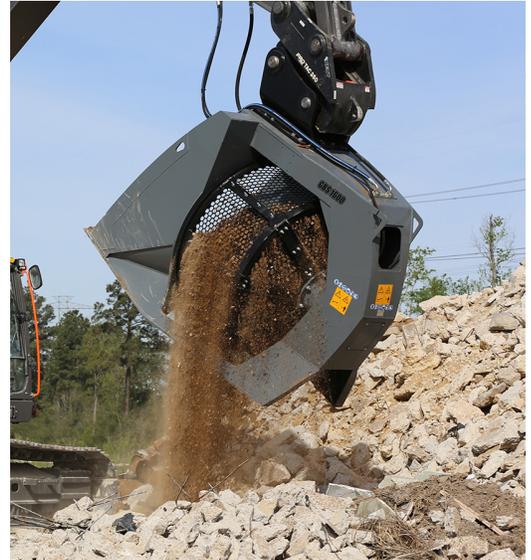
Occasionally change the rotation direction.

Tip the screener to screen the full load.

If the bucket screener stops,

- Turn it off
- Position the bucket screener so the loading opening is facing down
- Unload the material inside the GBS
- Clean the screen drum completely, checking for and removing bulky material blocking the drum
- Start the screener slowly
- Check material to be screened and remove any impurities

If necessary, jiggle the bucket screener slowly.



WARNING

Never remove blocked material from inside the bucket screener by hand or by putting yourself inside the bucket. Due to tensions on the mechanical structure, a sudden release may occur, resulting in serious injuries. Always stand a safe distance from the GBS and use tools.

MAINTENANCE

These maintenance instructions are intended for day-to-day maintenance to keep the screener in good running order and do not cover major repairs or replacements where specialist expertise is required. Only trained personnel should perform maintenance.

The screener should be completely emptied of material. Ensure the area surrounding the maintenance site is clear of any obstructions.

When performing maintenance, always observe the rules provided in the safety section of this manual. In addition to several other factors, the reliability and life of the screener depends upon regular and proper maintenance. Breakdowns caused by insufficient or improper maintenance will cause high repair costs and long downtime. When the screener is operated in extreme or very dusty conditions for long periods of time, maintenance must be performed more often.

The screener has been designed to facilitate easy routine maintenance; however, removing guards may be necessary. Replace guards once maintenance is complete and before restarting the machine.



Any operation requiring direct handling by the operator (inspection, maintenance) must be performed with the excavator off and its parking brakes applied with the bucket screener laid firmly on the ground. Let the hydraulic oil cool (approx. 2 hours). ALWAYS wear appropriate PPE. Use only Genesis spare parts.



Securely support any machine elements that must be raised for maintenance work.

NOTICE

Remove any build-up of grease, oil or debris.

NOTICE

Repair all defects. Even minor defects could affect performance when the machine is in operation.

MAINTENANCE

Maintenance Intervals

For operational safety, inspect and maintain the bucket screener and follow these maintenance interval guidelines.

Inspection and maintenance work	< 0 hrs	< 40 hrs	< 80 hrs
Check excavator hydraulic system if suitable to operate the bucket screener	x		
Check structure and component (damage, detachments, cuts, abrasions, softening)	x		
Check hydraulic motor and block (bubbles, leaks)	x		
Check hydraulic fitting fixation from screener and excavator (displacement, cracks, rust)	x		
Check hydraulic hose from screener and excavator (hardening, bending, rigidity, flattening, torsion, breaking, burn marks, leaks)	x		
Check all welds (cracks)		x	
Check bolt/nut assembly (tightness, damage)		x	
Check hydraulic hose inside screener (hardening, bending, rigidity, flattening, torsion, breaking, burn marks, leaks)		x	
Check hydraulic fluid quality from excavator (level, contamination)		x	
Clean motor and hydraulic hoses, check hydraulic system for leaks			x
Check PPE and caution decals. Replace if necessary.			x

After the first 40 hours of use, check the tightness of the hydraulic couplings inside the equipment. Hydraulic parts can loosen during initial screener operation.

NOTICE

- Use hydraulic fluids according to DIN 51524: Type HLP, automatic transmission Type A or API CD engine oil only.
- Use lubrication grease according to DIN 51825: Class KP2G-20 only.

WARNING

Should the bucket screener break down, contact the manufacturer or any authorized service personnel. The bucket screener itself and its functionality may not be modified in any way. More frequent lubrications should be made in tropical, very damp and dusty environments, as well as in environments full of impurities and subject to sudden temperature changes.

MAINTENANCE

Oil Change

The oil should be changed for the first time after 150 operating hours and then every 1000 hours or at least every 12 months. These periods may vary due to operating conditions.

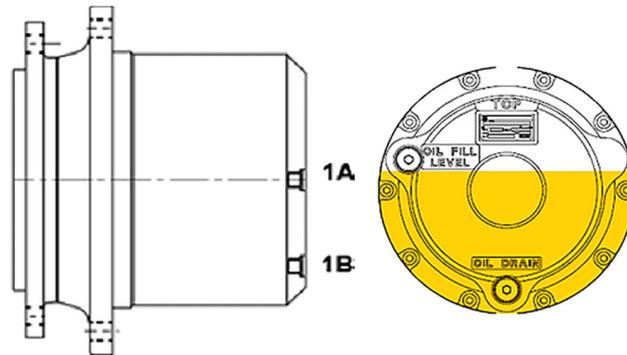
When changing the oil, wash the inside of the casing with a suitable liquid recommended by the lubricant manufacturer. To avoid leaving a sludge deposit, the oil should be changed when the reduction motor is hot. Check the oil level at least monthly. If more than 10% of the oil needs to be added, thoroughly check that the unit is not losing oil. Avoid mixing different types of oil (e.g., oils of the same type but of different operation periods, or oils from different manufacturers). Avoid mixing mineral and synthetic oils.

Draining the Oil

- Place a container under the drain plug.
- Unscrew the drain plug and drain all the oil.
- For better drainage, perform the operation with the gear motor still hot.
- Screw the drain plug back on.

Filling

- Unscrew the filler cap.
- Add approximately 2.5 L (84.5 oz) of oil.
- Screw the filler cap back on.

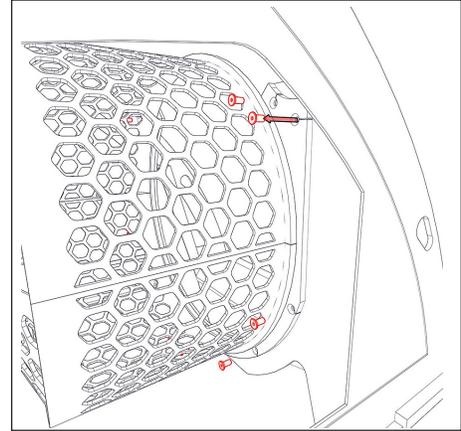
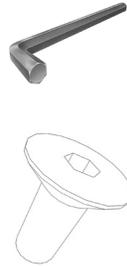
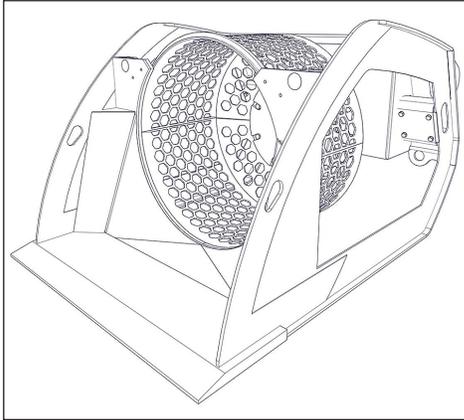


Inspection	Interval	Action
Tightening screws	After the first 50 operating hours of the gearbox	Screw tightening torque check
Oil level	Every 100 operating hours of the gearbox	Refill oil if necessary
1st oil change	At 150 operating hours of the gearbox	Oil replacement
Next oil change	Every 1000 operating hours or at least once a year	Oil replacement

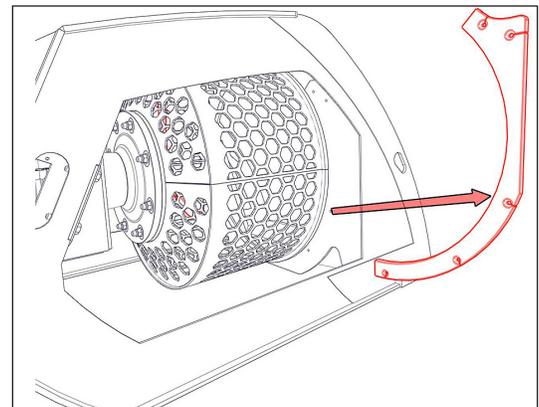
MAINTENANCE

GBS 600 Screening Drum Replacement

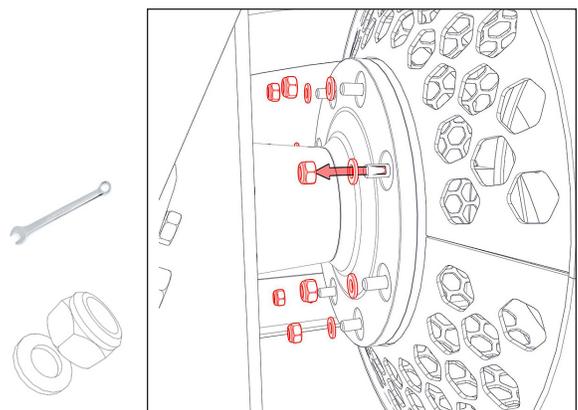
1. Place the GBS firmly on the ground, isolated from the excavator and hydraulic lines, and remove the M10 x 25 bolts.



2. Remove the ring from each side and place aside.



3. Remove the M16 nuts.



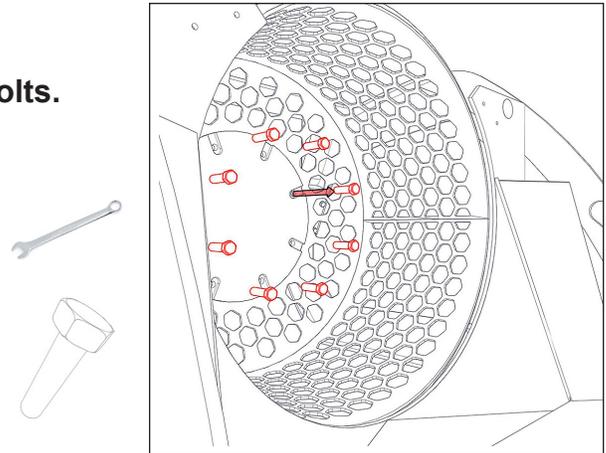
WARNING

ALL maintenance must be performed with the excavator and GBS off, the parking brakes applied (if attached to an excavator) and the bucket screener resting on the ground. **ALWAYS** wear appropriate PPE. Use only Genesis spare parts.

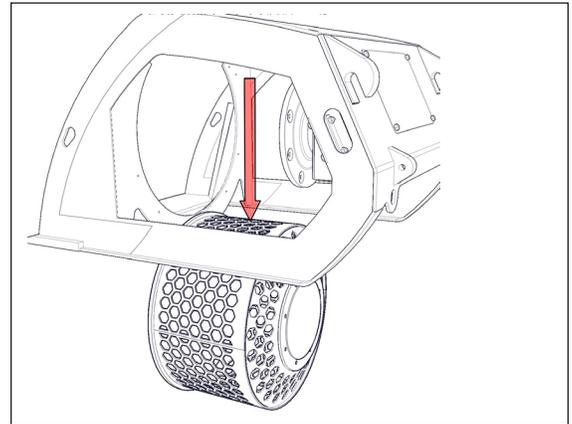
MAINTENANCE

4. Remove the M16 bolts from inside the drum.

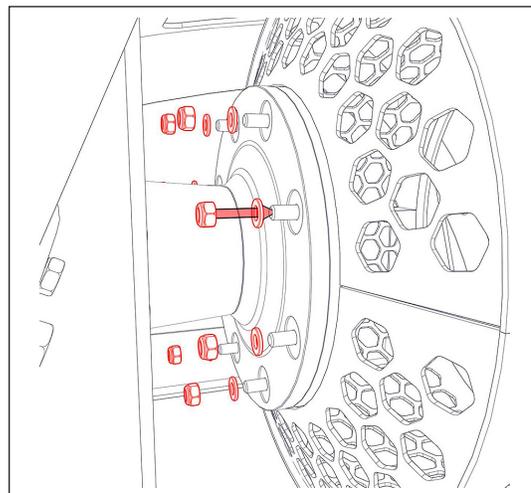
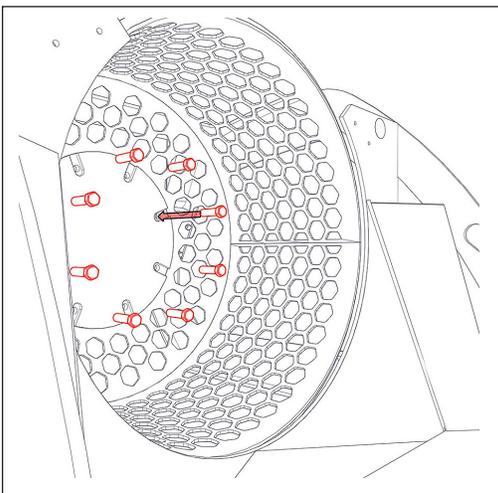
Secure the screen drum before removing the bolts.



5. Remove the entire worn/broken drum and replace with new drum.

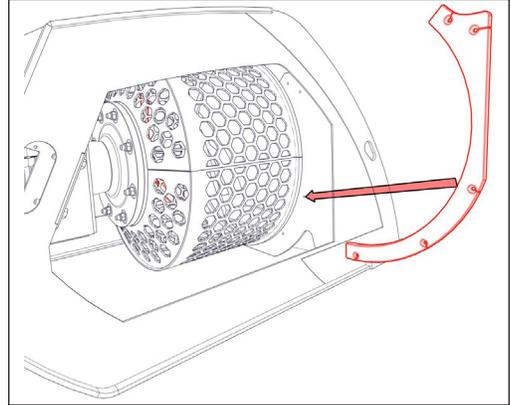


6. Insert M16 bolts and attach nuts. The use of new bolts and nuts is recommended.

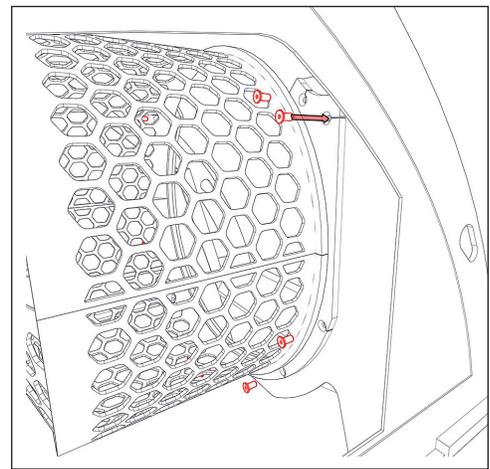


MAINTENANCE

7. Reinsert the ring on both sides, making sure the screen drum aligns with the rings and does not brush against them.

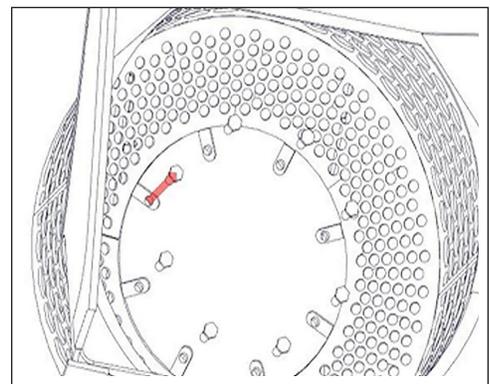
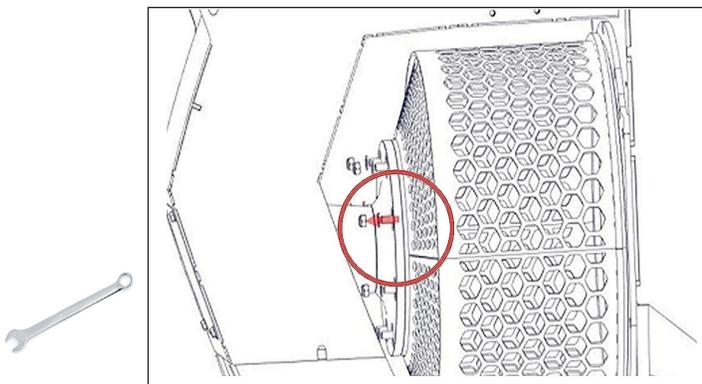


8. Insert the M10 bolts. The use of new bolts is recommended.



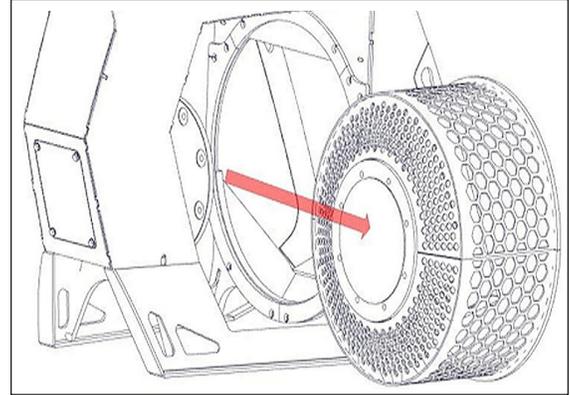
GBS 800 Screening Drum Replacement

1. Place the GBS firmly on the ground, isolated from the excavator and hydraulic lines. Remove the M16 nuts and the M16 screws from inside the drum.

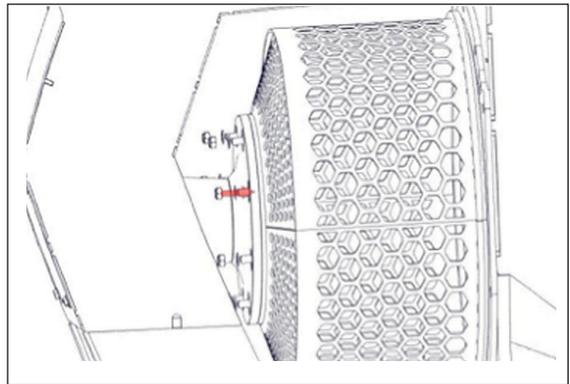
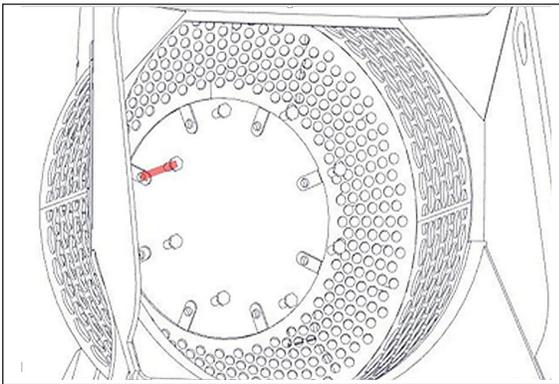


MAINTENANCE

2. Remove the entire worn/broken drum and replace with new drum.

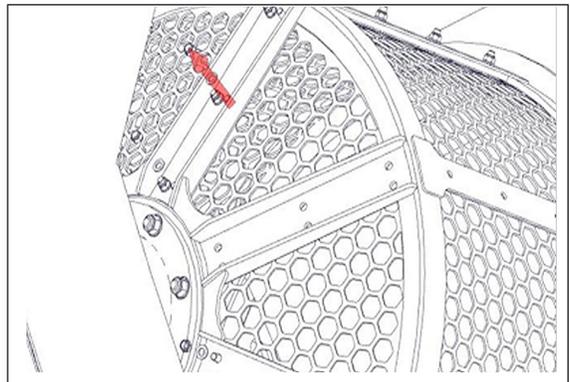


3. Insert M16 screws and attach nuts. The use of new screws and nuts is recommended.

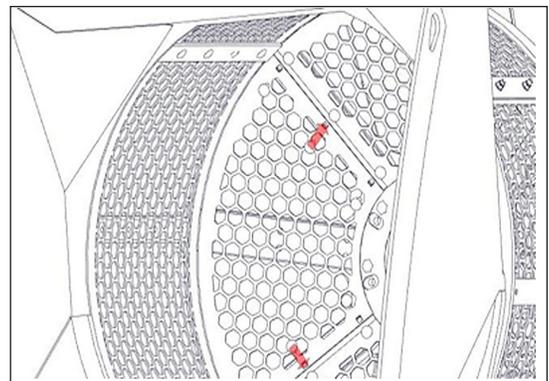
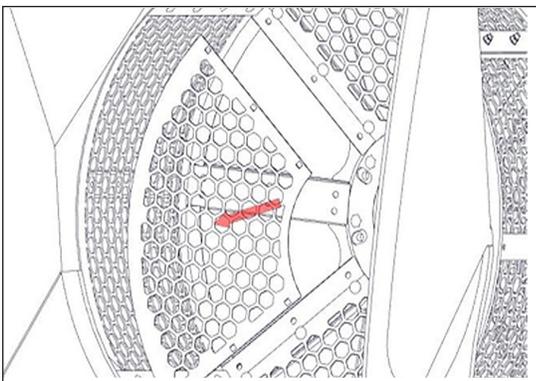


GBS 1200 & 1600 Screening Drum Replacement

1. Place the GBS firmly on the ground, isolated from the excavator and hydraulic lines, and remove the drum face panel M16 nuts and screws.

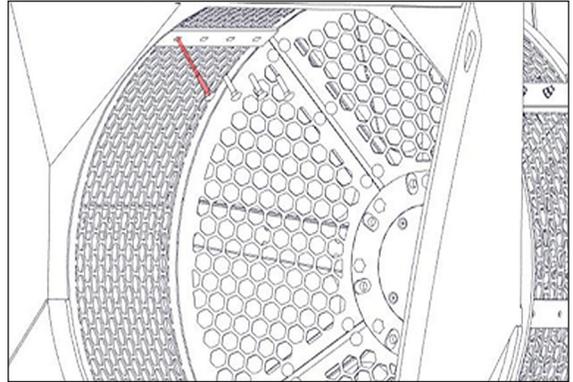
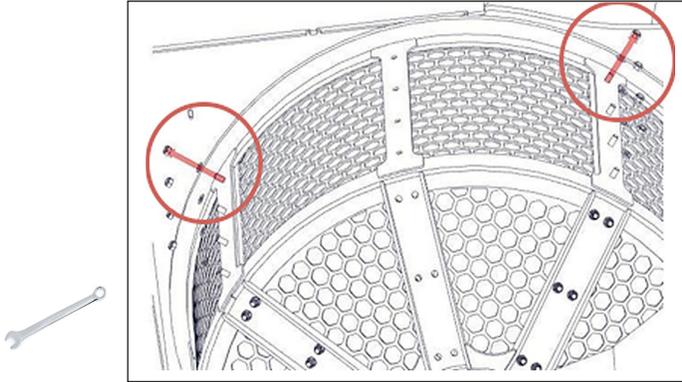


2. Remove the screen panel and install a new screen panel. Insert M16 screws and attach nuts. The use of new screws and nuts is recommended.

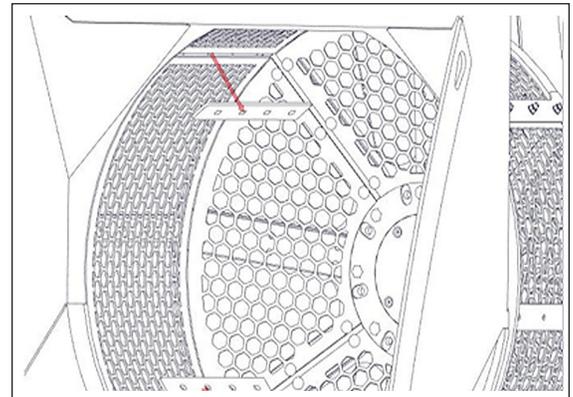


MAINTENANCE

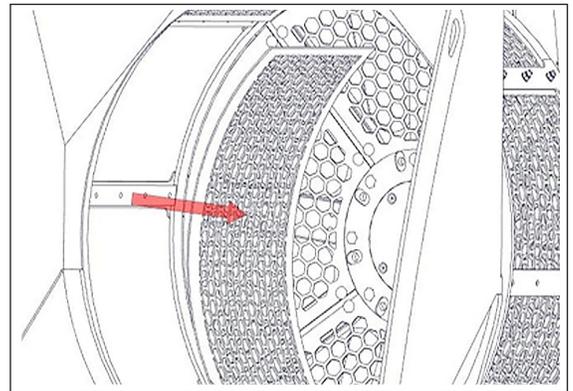
3. On the drum side panel, remove the M16 nuts and the M16 screws from inside the drum.



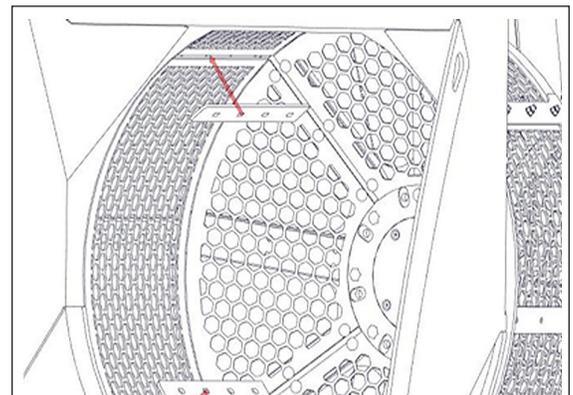
4. Remove the fixing strip.



5. Remove the screen panel and install a new screen panel.

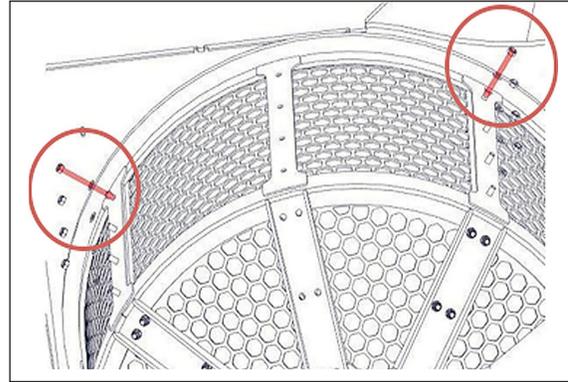
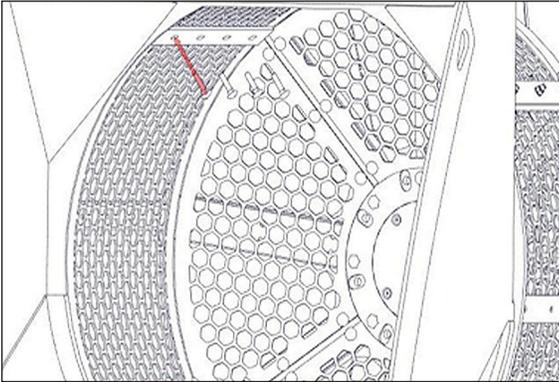


6. Install a new fixing strip.



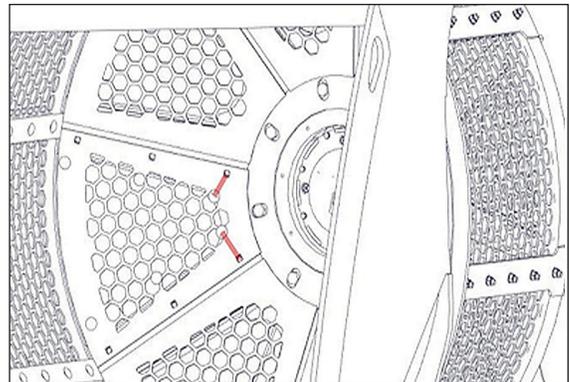
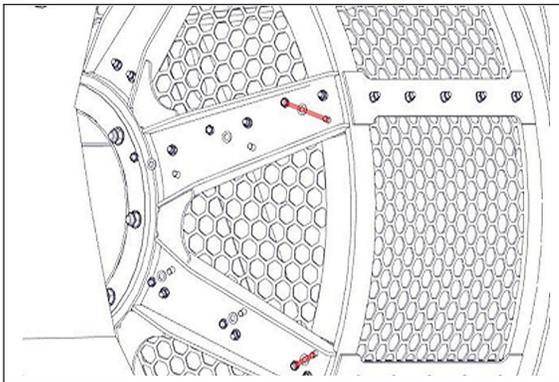
MAINTENANCE

7. Insert M16 screws and attach nuts. The use of new screws and nuts is recommended.

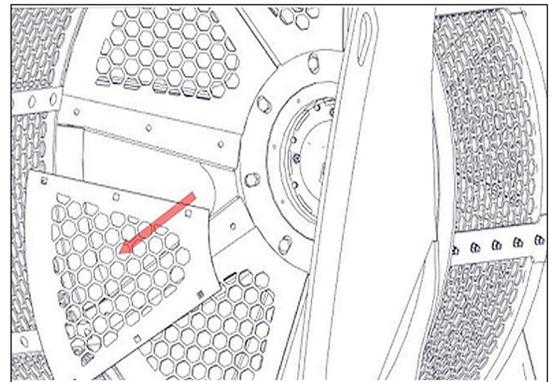


GBS 2000 Screening Drum Replacement

1. Place the GBS firmly on the ground, isolated from the excavator and hydraulic lines, and remove the drum face panel M16 nuts and screws.

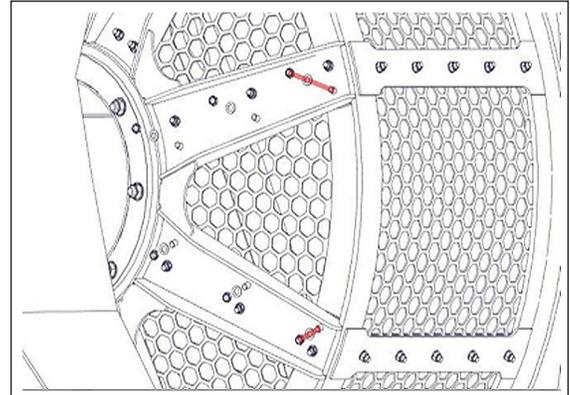
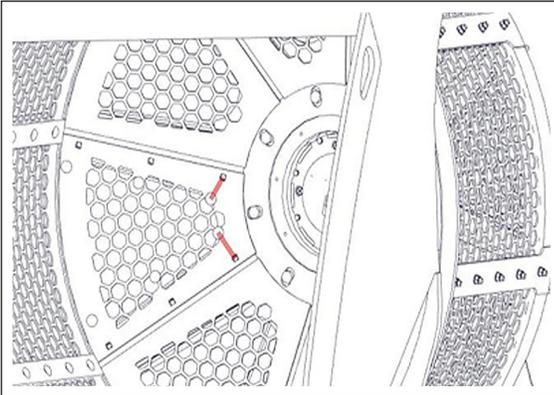


2. Remove the screen panel and install a new screen panel.

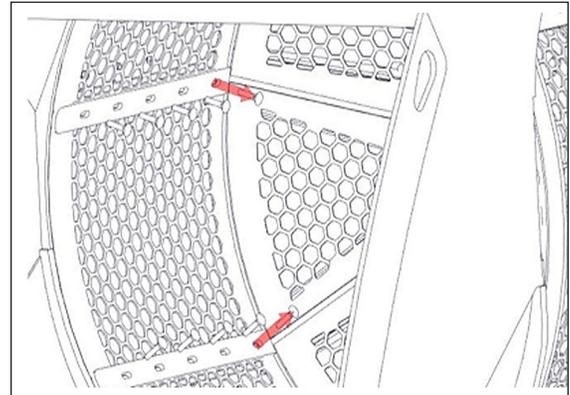
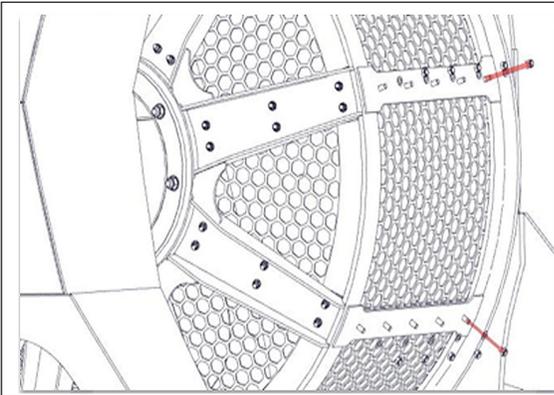


MAINTENANCE

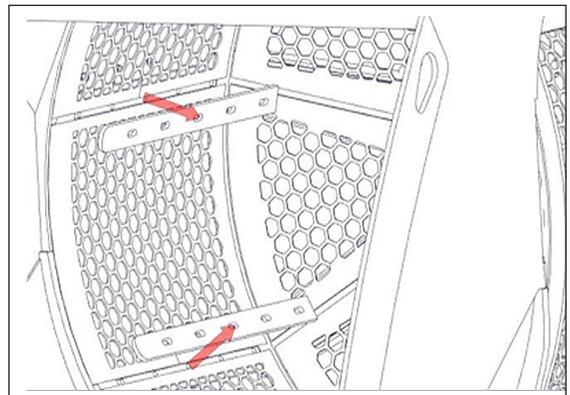
3. Insert M16 screws and attach nuts. The use of new screws and nuts is recommended.



4. Remove the drum side panel M16 nuts and screws.

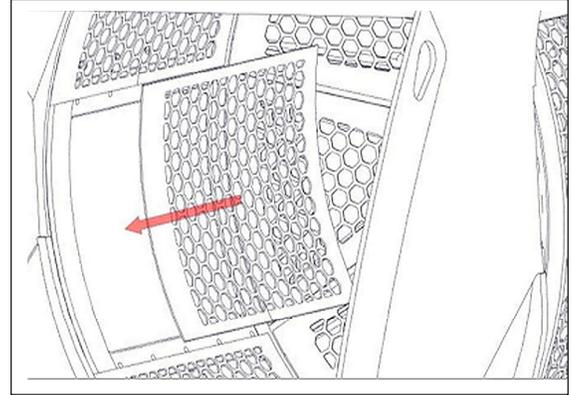


5. Remove the fixing strips.

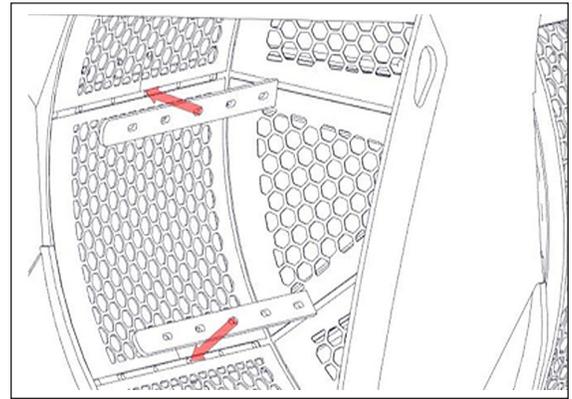


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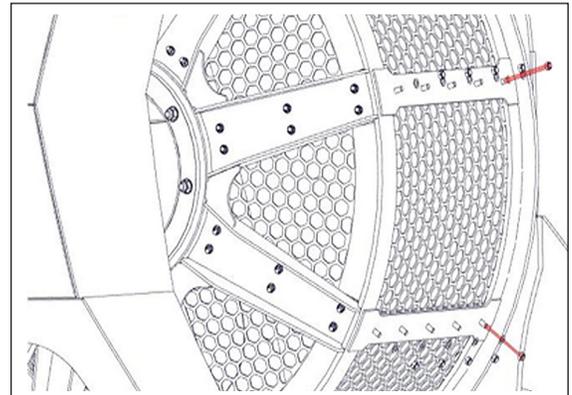
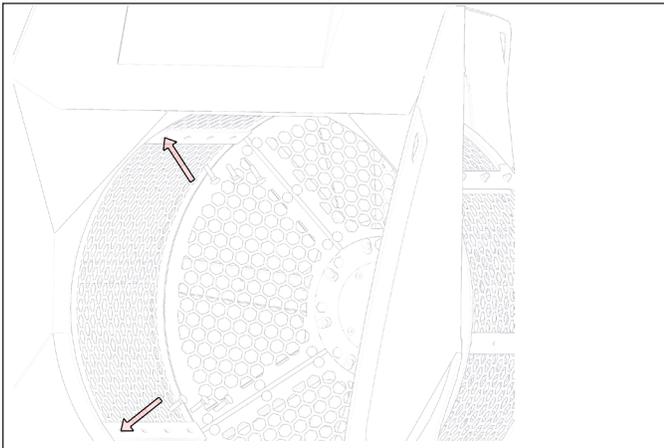
6. Remove the screen panel and install a new screen panel.



7. Install new fixing strips.



8. Insert M16 screws and attach nuts. The use of new screws and nuts is recommended.



TROUBLESHOOTING



WARNING

All troubleshooting must be performed with the machine off, the parking brakes applied (if attached to an excavator) and the bucket screener resting on the ground. ALWAYS wear appropriate PPE. Use Genesis spare parts.

Screener Operation Failure

Inspect	Possible Cause	Solutions
Check all wear and tear parts such as screener plates, fixing strips, screws and nuts	Damage has occurred.	Replace with genuine spare parts or have an authorized specialist perform the repair.
Check for non-screenable material, such as metal	Screener is blocked.	WARNING: Follow the safety instructions in this manual while checking for blockages. Remove any blocking material and clean screener drum completely before carefully restarting screening operation.
Check hydraulic connections for proper connection	Hydraulic connections are interchanged.	Correct connection.

Bucket Screener Vibration

Inspect	Possible Cause	Solutions
Check quick change coupling mounted on the bucket screener for loose bolts and screws	Bolts and screws are loose.	Tighten bolts and screws if necessary. Refer to the operation manual for the quick change coupling system.

TROUBLESHOOTING

Hydraulic Failure

Inspect	Possible Cause	Solutions
Check hydraulic oil pressure	Hydraulic oil pressure and/or oil volume is not correct.	Refer to the specification data. Check oil supply from the excavator and follow the operation manual of the device in question.
Check hydraulic oil temperature	Hydraulic oil temperature is too high (<194 °F).	Check oil supply from the excavator and follow the operation manual of the device in question.
Check for oil leaks	Oil is leaking.	<p>Check control hydraulic system and all hydraulic system components. If connectors are leaking, retighten or have them repaired by a hydraulic specialist. Follow the operation manual for the device in question.</p> <p>For hydraulic motor and hydraulic block, replace with genuine spare parts or have them repaired by a hydraulic specialist.</p>

WARRANTY

Claim Procedure

Notify the Genesis Service Department of the potential warranty claim prior to making the repair. Digital pictures are very helpful for diagnosing problems and recommending repairs.

Contact the Genesis Service Department before making alterations, changes or repairs to any component that is going to be considered for warranty. Not doing so will void all Genesis warranty consideration.

The Genesis Service Department will issue an authorization number to track the repair costs, outgoing parts, and/or defective parts returning to the factory.

Replacement parts must be ordered using a purchase order number. Shipping is standard ground. Overnight shipping is available by request, and Genesis will not cover the shipping charge.

When the repair is complete, submit an invoice to the Genesis Service Department within 30 days. Include itemized internal labor reporting, parts lists and invoices for outside contractors. Reference the authorization number on all invoices.

When returning parts for warranty consideration, include a copy of any related Genesis paperwork along with any other necessary documentation to ensure proper processing and credit. The Genesis Service Department will provide the necessary forms.

Your account will be credited when the warranty claim is accepted.

Please direct any questions to the Genesis Service Department: 715-395-5252

PARTS ORDER POLICY AND PROCEDURE

Parts Orders Should Include

- Purchase order number
- Model and serial number of attachment
- Part number and quantity needed
- Shipping and billing address
- Method of shipment or required delivery date

Placing Orders

Orders may be placed by phone, e-mail or fax. To fax an order, use the form on the following page. Contact information is located at the front of this manual.

Part Numbers

Part numbers are listed in a separate Parts Manual or, if included, the Parts section of this manual. Contact the Genesis Parts Department with questions regarding part numbers, availability and pricing.

Shipping

All orders will be shipped best way surface unless an alternate shipping method is requested. Shipping charges are not included in the purchase price of parts.

Invoices

All invoices are due upon receipt. Any accounts with invoices open beyond 60 days are subject to review and may be placed on C.O.D. status without further notice.

Returns

Unused Genesis parts may be returned with proper documentation. Return shipping is the responsibility of the purchaser. Credit will be issued upon return, less a 20% restocking fee. Documentation is required for credit of returned parts. Contact the Genesis Parts Department at 715-395-5252 for a RGA (Return Goods Authorization) number and form.

Return Goods Authorization

All parts returned to Genesis for warranty consideration must be returned with a completed RGA (Return Goods Authorization) provided by the Genesis Parts Department. The form needs to be completed in its entirety, including any additional information requested by the Parts or Service Department. Return freight is the responsibility of the shipper and will be credited upon claim approval. A determination to accept or deny the claim will be made based on the information available to Genesis. Warranty on purchased parts other than wear components is 6 months. There is no warranty period on wear parts or components.



CONTACT INFORMATION

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