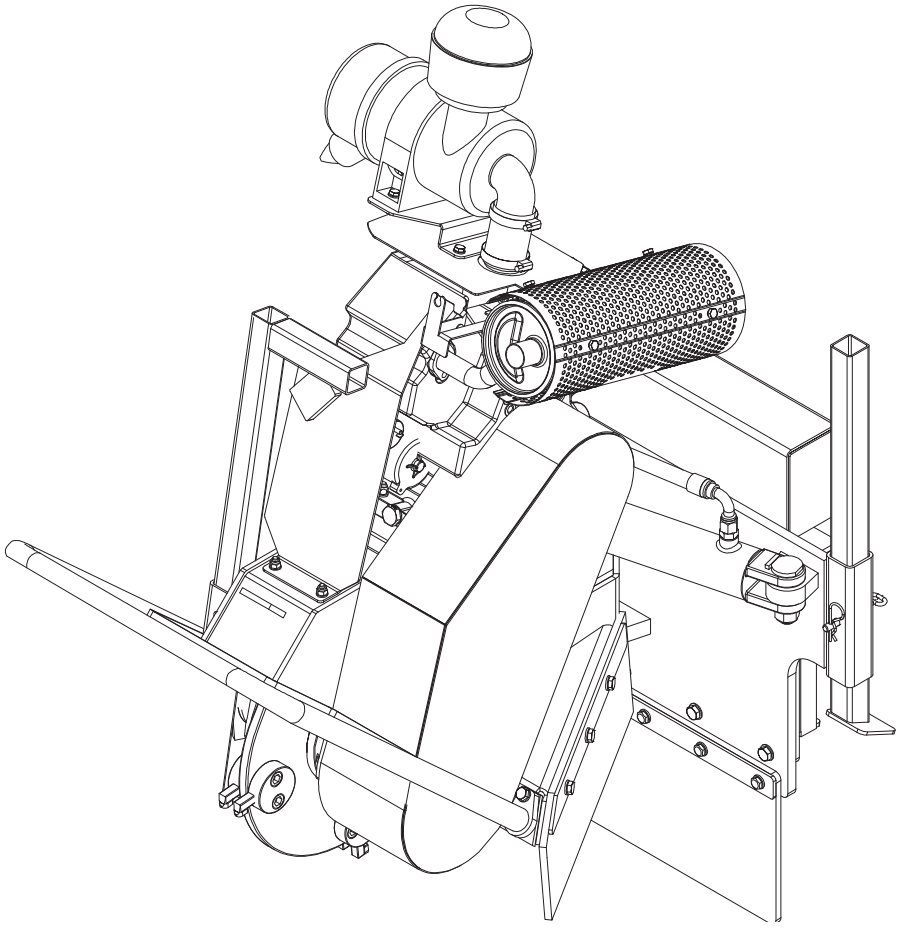
TERMINATOR
STUMP GRINDER
Operator's Manual



PM-000126-A

08.23

We thank you for choosing the Digga Terminator.

Your machine is the result of extensive design and development and is acknowledged as being the superior product in its category. We congratulate you on your discerning choice and wish you many years of productive service!

Read this manual carefully before operating your machine. It contains important technical information, safety precautions, and operating instructions. With correct operation and attention to maintenance procedures, you are ensured of a long, safe, and trouble-free working life for your Digga Terminator.

We advise you to study and understand this manual before undertaking any maintenance. Keep it with your machine at all times as a ready reference. Some illustrations in this publication show details or attachments that may be different from those of your machine. In addition, continuing improvements and advancement in product design may have resulted in changes to your machine that are not present in this publication. If you have any questions, please do not hesitate to contact us.

Safety first!

Safety guidelines and warnings are highlighted throughout this manual. These address potential hazards that may arise during the typical daily operation and maintenance of your equipment. You must know and observe these safety guidelines and ensure that all personnel working on or near your equipment understand and practice them as well.

Proprietary Statement

Disclaimer

While all care has been taken in the development of this product, Digga makes no representation or warranty that this document is accurate, error-free, or up to date and no loss of any kind is accepted by Digga or its agents arising from the use of this document.

Digga makes no representations or warranties with respect to the contents of this document, and specifically disclaims any express or implied warranties or fitness for any particular purpose. Furthermore, Digga reserves the right to revise this publication and to make changes to its contents, at any time, without obligation to notify any person or entity of such revisions or changes.

Trade marks

This document includes use of trade marks that are the property of Digga, including registered trade marks and trade marks that are the subject of pending applications, or which are otherwise protected by law. You may not use or infringe these trade marks or the names "Digga", "Kanga Loaders", or the name of any of our related companies, without the express written consent of Digga.

Copyright

This document, its contents, the material, and content (including, but not limited to, artistic and literary works) on the Digga website are owned or licensed by Digga and protected by copyright under the laws of the Australia, United States of America and other countries.

You may view this document for the purposes of use and operation of the Digga product purchased in connection with the issue of this document.

You may view the contents of our website and save an electronic copy of the website solely for the usual operation of your web browser visiting the site.

You must not otherwise reproduce, transmit (including broadcast), adapt, distribute, sell, modify or publish or otherwise use any of the material on this document or our website, including audio and video excerpts, except as permitted by statute or with Digga's prior written consent.

Patent and design rights

The products, inventions and processes subject of this document may be protected by granted patents or registered designs owned or licensed by Digga. You must not use or exploit such products, inventions and/or processes in a manner that would constitute infringement of Digga's or its licensors' rights in such patents or registered designs without the express written consent of Digga, or otherwise as expressly permitted under this document.

Framing

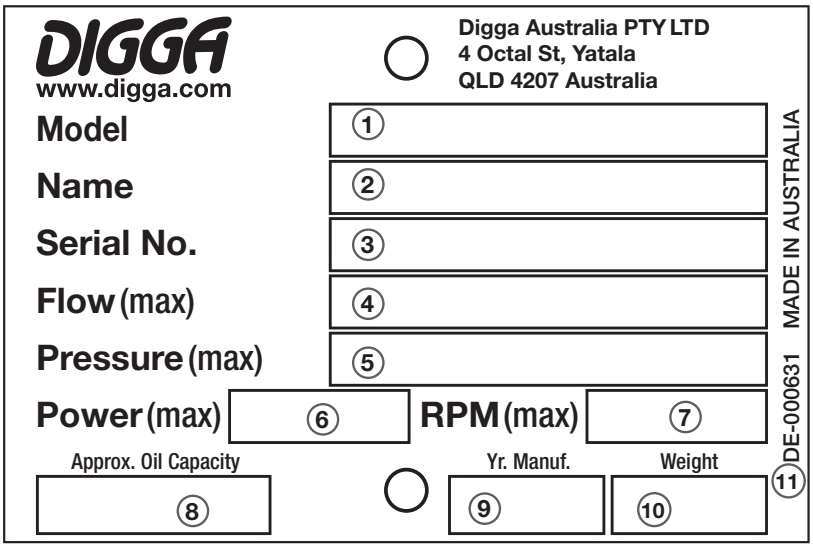
You must not frame any of the material appearing on this document or on Digga websites and marketing material except in accordance with the Digga Linking and Framing Policy (contained at https://www.digga.com/digga-privacy-policy.html) or otherwise in accordance with Digga's prior written consent.

Table of Contents

**Digga Handover Worksheets section is removed, during the handover.

Identify Your Product

Read Your Product Plate



Key

1 Full Model Code
2 Product Name
3 Serial Number
4 Maximum Hydraulic Flow for the slew cylinder
5 Maximum Hydraulic Pressure for the slew cylinder
6 Nominal Engine Max Power
7 Nominal Engine Max RPM
8 Approximated Engine Oil Capacity
9 Year of Manufacture (in Australia)
10 Attachment Weight
11 Serial Tag Part Number

Models covered by this manual

MODEL	DESCRIPTION
ML-000431	TERMINATOR MINI STUMP GRINDER - MULTIFIT FRAME
ML-000432	TERMINATOR MINI STUMP GRINDER - VERMEER

Safety Information

Understand Safety Warnings and Symbols

You must understand all safety statements shown on your attachment and in this manual. Especially note information called out by the designations shown below. Following these safety precautions is required when operating or maintaining a Digga Terminator.

DANGER

The DANGER designation indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

WARNING

The WARNING designation indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION

The CAUTION designation indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury or property damage.

You will also see information called out with the ***NOTE*** designation. This additional safety or general information is important to the maintenance and operation of your attachment.

This Operator's Manual provides measurements in both International System of Units (SI) and United States customary system units (USCS), displayed as "SI (USCS)."

During day-to-day operation of your attachment, you will encounter a variety of situations beyond those listed in this manual. We encourage you to assess the risk present at any job site and in every work task *before* beginning work. Apply appropriate risk mitigation strategies to make safety a first priority at all times, and if these are not sufficient, stop the job and immediately seek the help of a qualified safety consultant.

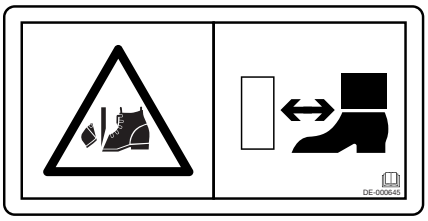
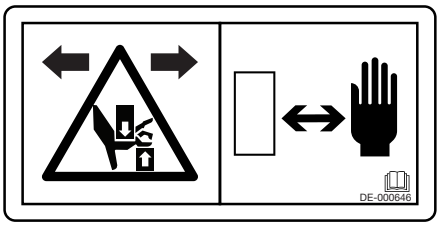
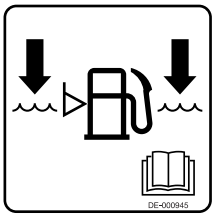
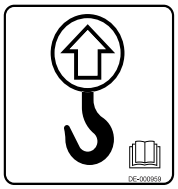
NOTE
In the diagrams and illustrations shown in this manual, safety guards and covers may have been removed. This is strictly for illustrative purposes. All guards and safety controls must be in place while operating your equipment.

Safety Decal Labels

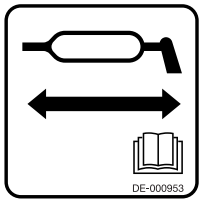
The following section provides a glossary of safety labels found on your Digga Terminator. These labels are important! Become familiar with both their meaning and location prior to operating your attachment.

They must be maintained so each decal label is clean, visible, and legible. To clean the decal, use a soft cloth, water, and soap. Avoid the use of solvents, gasoline, or other harsh chemicals, as these may damage the decal.

If a safety label has been damaged or removed, it must be replaced. In the Spare Parts section of this Operator's Manual, refer to "Terminator Stump Grinder Decal List" on page 51 for decals part number information.

KEEP DISTANCE	LACERATION HAZARD	CRUSHING HAZARD
		
DANGER Keep personnel and bystanders at a safe distance from the attachment.	**WARNING** Keep feet and body parts a safe distance from the attachment.	**WARNING** Keep hands and body parts a safe distance from actuating parts.
SAFE FILL LEVEL	**FLAMMABLE LIQUID**	**LIFT POINT**
		
CAUTION Do not overfill the fuel tank. See "Refuelling" on page 30 for refuelling and maximum fuel level.	**WARNING** The fuel required for this equipment is flammable. Do not refuel while the engine or other surfaces are hot. See "Refuelling" on page 30.	**CAUTION** Lift the attachment only at points approved for lifting. See "Lifting Your Attachment" on page 21.

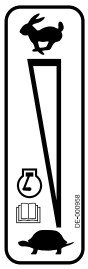
DAILY GREASE POINT

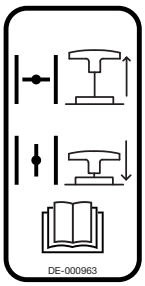


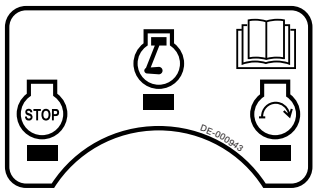
CAUTION

Some grease points may be hidden. See "Service Tasks: Grease Nipples" on page 40.

ENGINE CONTROLS







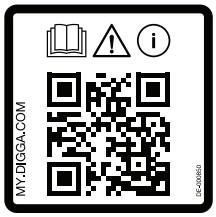
See "Dash Controls" on page 25.

SAFE OPERATING RANGE

DANGER

Do not exceed the recommended tilting operating range. Maximum of 20 degrees forward or backward. See "Controls" on page 24.

MY.DIGGA.COM

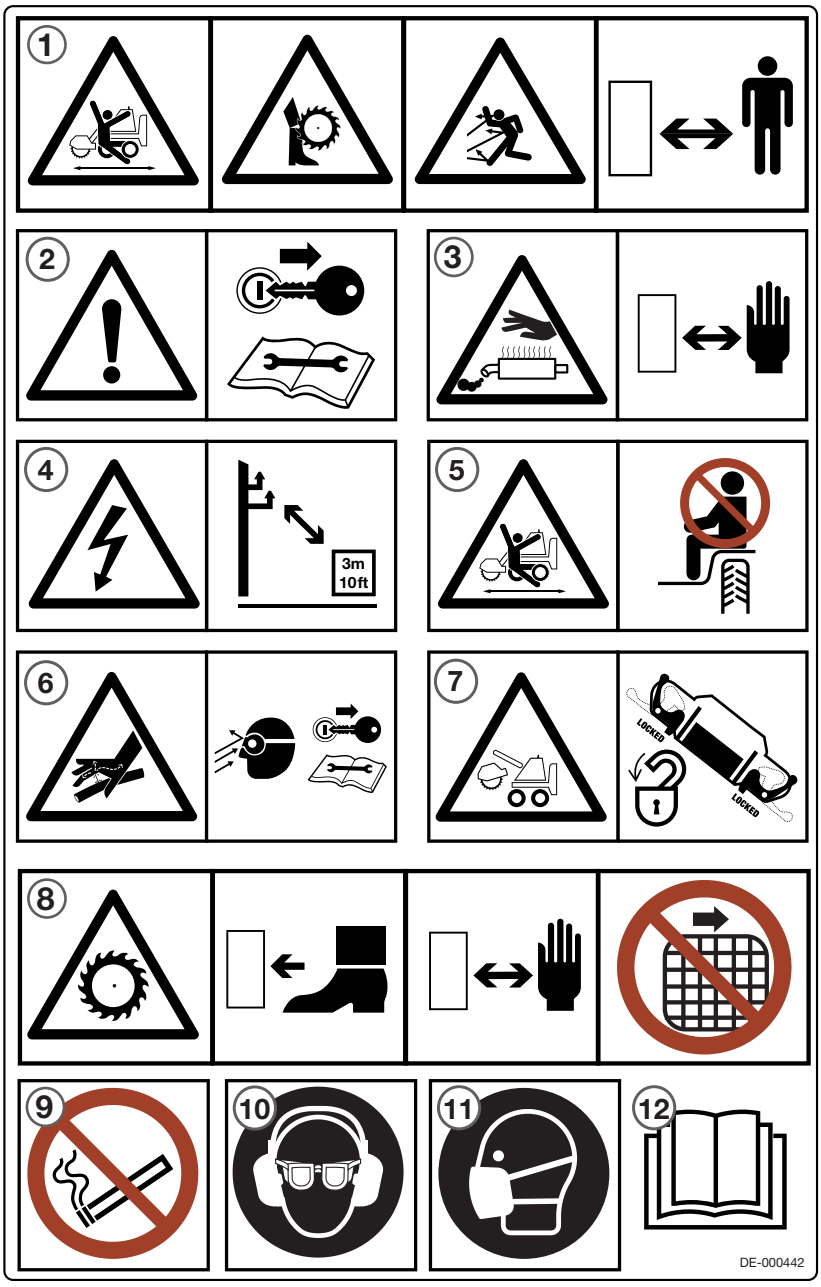


NOTE

Scan the QR-code to access my.digga.com and find manuals, safety information, guides and more.

Safe Work Practices—Pictograms

These decals illustrate key safety practices related to the operation of your Digga Terminator.



1. Keep distance: risk of entanglement, laceration, and particle projection. All personnel are to stay 12 m (40 feet) from the machine.

2. Remove the key for maintenance: Before any maintenance is performed, switch the engine off and remove the key. Never leave the key in an unattended machine.

3. Hot surfaces: Keep hands and body parts at a safe distance from the hot surfaces located in the exhaust, engine, and hydraulic areas.

4. Electrocution hazard: Always check for overhead and underground power services. Keep 3 meters (10 feet) from overhead services and 2 meters (6 feet) from on-ground utility markings. See page 13.

5. Entanglement hazard: Always stay in the machine workstation. Only operating personnel may be present on the hosting machine. Never sit or ride on the attachment.

6. Pressure injection risk of injury: This machine operates on high-pressure hydraulic fluid. Always wear eye protection when operating or performing maintenance on this machine. Hydraulic fluid under pressure presents a risk of serious injury. Pressure injection injury, if not treated immediately could result in amputation.

7. Attachment connections: Ensure attachment locking pins are engaged and quick couplers are connected before using a loader attachment.

8. Rotating grinder: Keep your feet and hands off. Do not remove any guards or covers.

9. Do not smoke: No smoking, no fire, or open flame on or near this machine.

10. PPE is mandatory: Wear hearing and eye protection at all times during the operation of this machine.

11. PPE is mandatory: Wear breathing respirator during stump grinding. See page 14.

12. Read Operator's Manual: Take note of the above safe work practices and safety notices. Completely read and understand this operator's manual before using your Digga Terminator. Keep the manual with the machine at all times.

Practice Safety at All Times

General Safety Rules

Read, remember, and apply the following safety rules during the operation of your Digga Terminator. In addition, complete a thorough risk assessment before loading and unloading the machinery, and before beginning work. This will aid in anticipating any unsafe operations or work conditions unique to the job.

Completely read and understand this Operator's Manual in conjunction with the loader or hosting machine operator's manual. Keep the manuals with the machine at all times.

Identify, mark, and delineate all underground utility installations before any work commences.

Establish a traffic control plan with a well-defined and clearly marked loading/unloading and work area.

DANGER

To avoid the risk of struck-by and back-over accidents, ensure all personnel, guests, and passers-by in the work area understand where they can and cannot travel on foot.

Never operate the equipment within 12m (40ft) of persons or property.

Mark the boundaries of the work area with barricades and/or traffic cones before beginning work.

Before commencing grinding operations check and clear the work area of all objects and obstructions that could be a hazard.

Ensure that the attachment mounting plate locking pins are correctly engaged.

Check all safety features on the equipment, including guards and safety (dead-man) switch are operational prior commending grinding operations.

Keep body parts within the confines of the loader and never attempt to dismount the equipment when the grinding wheel is turning.

DANGER

Keep hands, feet and clothing away from all moving parts, including hydraulic arms.

Stop completely before actuating hydraulic movements in the opposite direction when slewing or lifting/lowering the attachment.

Stop completely before operating other hydraulic controls.

Operate at speeds suitable for the conditions and as determined by the task risk assessment.

Run the engine at the recommended operating speed between 2/3 and 3/4 throttle.

NOTE
Reduced speeds minimize noise levels dangerous to both the operator and bystanders.

Travel with the attachment low and level to the ground.

Ensure the attachment is fully stopped and shut off when leaving the loader.

Use handholds to aid in stepping onto or off of the loader.

CAUTION

Do not use control levers as handholds.

Use only thumbs and forefingers to operate the control levers.

Use a steady, even action to achieve proper control.

Do not jerk the control levers.

Avoid distractions during the operation.

DANGER

Never carry passengers on any part of the loader or its attachments.

Shut-down and remove the key when the attachment is left unattended and/or unsupervised.

Attach a "Do Not Operate" or similar warning tag in the driver area during service and repairs.

Shut off engine during refuelling.

Do not smoke or use open flame during equipment operation or while refuelling.

Ensure the Rated Operating Capacity (ROC) of your loader is adequate to operate the Digga Terminator.

Do not engage in horseplay and other dangerous behaviour while operating the loader or attachments.

WARNING

Avoid touching exhaust, engine parts, hydraulic pipes and fittings, drive chains, friction parts, or guards.

Do not remove safety decals. Replace decals that have become damaged or illegible.

Do not remove safety guarding.

If safety guarding must be removed for repairs or maintenance, replace immediately.

Do not raise the grinding wheel more than 250mm (10") above the ground level when in use.

Do not operate the equipment for extended periods at full throttle.

Working on Slopes

Slopes present especially dangerous working conditions. Environmental factors, such as the presence of moisture, snow, ice, or slippery plant material, can affect the machine stability. Soil conditions, rough terrain, reduced visibility due to dust, and other factors can impair safe operation. The condition and configuration of the machine, the loads being carried, and operator experience also impact work safety.

Before You Dig

Never begin work at a new location until the work area has been fully marked for underground utilities. Buried electrical cable, telephone wires, gas, water and sewer lines are likely to be present. Unintentionally disrupting these hidden hazards while working with your attachment can result in dangerous situations and property damage.

Many countries offer a similar "Before You Dig" service to Australia, which advises the location of underground services in your area. If available also use this service prior to digging, drilling, trenching or any form of excavating and earthmoving.

CAUTION

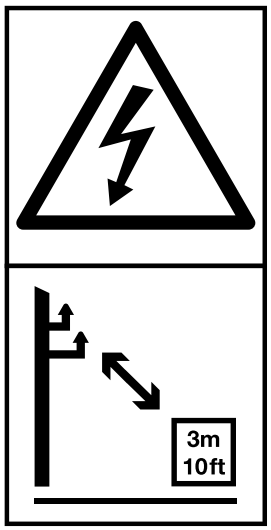
You must ensure that underground utilities have been officially marked out before working in the area. Markings must be valid according to state law or practice.

To begin the process of utility location, log on to the respective "Before You Dig" authority for your Country or State, several days before work is set to begin. You can request the necessary information on the utility services in that area.

Be ready to provide information about where you plan to dig, the type of work involved, and how you can be reached. An asset plan can be provided to ensure zero damage to assets can occur.

The applicable utility companies may also be informed, and utility locator personnel may be sent to the property to mark the approximate locations of the underground utilities. They may use paint, flags, stakes, or other temporary methods.

While operating your equipment in a marked area, keep a distance of at least 2 meters (6 feet) from all underground services.



DANGER

During equipment operation, maintain a minimum "no-work zone" buffer of 3 meters (10 feet) from any overhead electrical service and 2 meters (6 feet) from any underground service.

Personal Protective Equipment (PPE)

All personnel working on or near the Digga Terminator must follow the work site's Health and Safety guidelines and wear a hard hat, hearing protection, safety glasses, and other protective equipment, as appropriate for the hazards present.

WARNING

Avoid loose clothing or jewellery that can snag on controls or on other parts of the equipment.

NOTE
After all the engineering and administrative controls have been exhausted. PPE is considered the last line of defence against Injury. Wear the correct PPE at all times while operating the Digga Terminator.

Host Machine Connections

Electric Connections

The Digga Terminator Stump Grinder must be connected to the machines power supply 12VDC (battery) and to the auxiliary cut out system ('deadman') switch.

The Digga Terminator uses an Anderson plug for the power supply connection and a 2-pin Utilux plug for the auxiliary cut-out system. See Figure 3 on page 22.

Consult your machine dealer or an auto electrician to install these connectors.

WARNING

Do not operate the equipment without the auxiliary safety switch installed and operational.

Hydraulic Connections

See "Hydraulic Connections" on page 28.

Complete a Risk Assessment

Five Steps to an Effective Risk Assessment

Your Digga Terminator is a versatile machine, capable of grinding tree stumps in a safe and effective manner. To ensure the safety of operators and others, it is important to document the work at hand for hazards and risk. Before beginning work, complete a risk assessment. The following steps provide a framework for this activity:

1	**Document the Activity** Assemble those involved in the activity. Write down the tasks required for the activity in step-by-step form.
2	**Identify the Hazards** (see list, right) Next to each task, identify what part of the task may cause injury to those engaged in the task or others in the vicinity. Rate the consequences and likelihood of the hazard using the risk assessment matrix on the next page.
3	**Document the Control Measures** Using the results from the risk assessment matrix, determine which hazards require attention. List all mitigation measures that are required to eliminate or minimize those hazards.
4	**Identify the Responsible Person** Document the name of the person responsible for implementation of the mitigation measure.
5	**Monitor and Review** Ensure that the activity is supervised and that the documented process is being followed. When a documented activity changes, when there is a change of personnel, or after an appropriate length of time, review the documentation.

Should an incident occur, conduct an investigation to determine hazards, the underlying causes, and any safety-related strategies that may be needed. In this way you can work to prevent future occurrences.

The following are examples of hazards that may be present at your work site:

- Overhead power lines
- Underground utilities
- Excavations
- Slopes or adverse cambers
- Confined spaces
- Poor or limited sight lines and visibility
- Roadways carrying vehicular traffic

People or animals accessing the work area or machine

Note other hazards here:

Risk Assessment Matrix

CONSEQUENCES	RATING	LIKELIHOOD	RATING
Catastrophic Catastrophic injury, injuries resulting in single or multiple deaths or permanent disablements	5	**Almost certain** May occur several times a year/can happen almost every time the activity takes place/almost all employees are exposed to the hazard	5
Major Major injury, fatality, serious bodily injury or illness caused by work- permanent incapacitate	4	**Likely** May occur once or several times during the life of the activity / many employees are exposed to the hazard	4
Moderate Moderate injury or illness- injury requiring casualty treatment- Lost time injury	3	**Possible** Low possibility that it may happen in the life of the activity / some employees are exposed to the hazard	3
Minor Minor injury- first aid treatment without absence- medical treatment injury	2	**Unlikely** Only a remote risk that it may happen in the life of the activity / few employees are exposed to the hazard	2
Negligible Small injury or bruises- first aid treatment	1	**Very Unlikely** No knowledge of similar situations happening elsewhere / only a few employees are exposed to the hazard	1

Likelihood	CONSEQUENCES				
	Negligible	Minor	Moderate	Major	Catastrophic
5 Almost certain	11	16	20	23	25
4 Likely	7	12	17	21	24
3 Possible	4	8	13	18	22
2 Unlikely	2	5	9	14	19
1 Very Unlikely	1	3	6	10	15

Risk Control Legend - Outcome

23 to 25 = Extreme Risk - *Cease activity immediately and implement risk controls before restarting work activities. Consult with competent and qualified personnel to make the work area safe.*

15 to 22 = High Risk - *Plan and implement risk control measures after performing the five-step risk assessment. Seek advice from the manufacturer if any doubt remains.*

7 to 14 = Medium Risk - *Acceptable but remedial work may be required in the longer term.*

1 to 6 = Low Risk - *Acceptable without further remedial work. However, you should still monitor and review periodically.*

Be Work-Ready

Before beginning work, answer the following questions. Immediately address any issues detected during this process.

Perform a Site Assessment

- ☐ Is the terrain stable and suitable to work on?
- ☐ Have you conducted a thorough site inspection before entering the area with equipment?
- ☐ Are wet or boggy conditions present?
- ☐ Are other environmental factors affecting the equipment operation present?
- ☐ Is the work area sloped?
- ☐ Are slope angles within safe recommendations?
- ☐ Have underground utilities been marked and the no-work zone specified?

Ensure Personal Safety

- ☐ Are all safety instructions clearly understood by all individuals working on and around the equipment?
- ☐ Are all personnel wearing recommended and appropriate PPE?
- ☐ Is the equipment operator fully prepared to use the it as specified in the operator's manual?
- ☐ Has the daily pre-operation inspection of the attachment and the hosting machine been completed?
- ☐ Have issues detected during the pre-operation inspection been addressed?
- ☐ Are all equipment safety features operable?
- ☐ Are the attachment locking pins fully engaged and secure?
- ☐ Is the driving platform clean, dry, and free from grease, mud, or other slip risks?

Execute the Task

- ☐ Have any required risk mitigation strategies been put in place?
- ☐ Has a safe and logical sequence of work been specified?
- ☐ Has the plan of work been discussed with all personnel and bystanders in the area?
- ☐ Has work been coordinated with other trades and activities on the site?
- ☐ Has the work area been clearly demarcated?
- ☐ Do work plans reflect the weight or load and operational limitations of the equipment?
- ☐ Have all operators been reminded to travel with loads low to the ground?
- ☐ Do operators understand that the grinding wheel must be below 250mm (10") from the ground at all times?

Operate Your Digga Terminator

Inspection After Delivery

As soon as your equipment is delivered and before declaring it ready for use, thoroughly inspect it for any evidence of damage resulting from shipment.

CAUTION

The task of preparing a new stump grinder for use should be completed by a responsible person who has read and understood this manual.

Care and maintenance requirements for your attachment are simple, and coupled with the use of common sense, a general occupational health and safety knowledge, and a daily prework visual inspection, should not pose any problems. The following checklist provides suggestions for detecting defective or damaged parts.

Check Before Using

1	Inspect the machine chassis for any visible damage.
2	Visually inspect all components to ensure they are securely attached, especially guards and covers.
3	Check that the teeth and wheel are tight and secure and that there are no obstructions or entanglements around the teeth or wheel.
4	Inspect all areas for evidence of hydraulic oil, engine oil, or fuel leakage.
5	Check hydraulic cylinders for oil leakage and visible damage.
6	Check hydraulic oil lines for correct connections and for signs of leakage.
7	Check all linkage pins for greasing.
8	Inspect electrical wiring loom, remote start switch, and dead man foot pedal for signs of damage and functionality.
9	Inspect all cylinders for rust, nicks, scratches, or foreign material on shafts. Check for hydraulic oil leaks at the seal and fitting areas.
10	Inspect the engine for loose or missing components and any evidence of damage or leakage.
11	Check the engine oil level is within operating limits as marked on the dip stick.

Loading and Unloading

Carefully observe the following safety guidelines during the loading, unloading, and trailering of your Digga Terminator.

When loading or unloading the machine from a trailer, the trailer must be located on a firm, even surface. It must remain fully attached to the towing vehicle.

CAUTION

Never unload a trailer positioned on a slope. Do not park or leave the equipment on a slope.

Carry out all loading or unloading manoeuvres at a slow speed, with due care for personal safety and damage to equipment.

Loading

NOTE
Always shut off the fuel petcock valve (if equipped) when transporting your Digga Terminator, as the vibration might cause fuel to flood the engine and damage it.

1. Inspect the lashing points on the trailer or truck for bolt tightness, excessive wear or visible cracking.

DANGER

The attachment must be securely lashed to the trailer during transport. Failure to prevent the load movement may cause injury or death to yourself or others.

2. Inspect all lashing gear for excessive wear and make sure the inspection tags are up to date.
3. Inspect all attachment legs for condition. Check if all leg pins are secured with r-clips.
4. Lash the attachment accordingly.
5. Check the lashing conditions before departure and periodically during the transport.

Lashing Points

CAUTION

The Digga Terminator does not have specific lashing points. The responsibility to lash the equipment properly falls onto the operator.

Safety in the Work Zone

In all work zones, it is important to control both vehicle and foot traffic in the area.

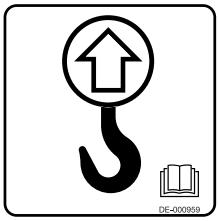
Always use cones, signage, and other signals to demarcate the unloading and loading zone. Ensure that non-essential personnel and bystanders are sufficiently clear of the area before proceeding with the loading or unloading process.

DANGER

Observe extra vigilance when loading, unloading, or working with your equipment close to roadways carrying traffic. Never count on drivers to slow down, stop, or otherwise accommodate your presence.

Lifting Your Attachment

When lifting the equipment, use appropriately rated slings and shackles. These must be attached securely to the lifting point on the front of the attachment, which is identified by the symbol below.



Fitting the attachment

1. Drive the loader to the Terminator and engage the attachment plate to the attachment mount. Press the attachment locking pins into position ensuring the attachment locking pins are securely fitted.

2. Lift the attachment from the ground.

3. Switch off the loader at the loader ignition and remove the key.

4. Detach the Terminator remote control box from its stored position located at the front of the attachment . See Figure 1.

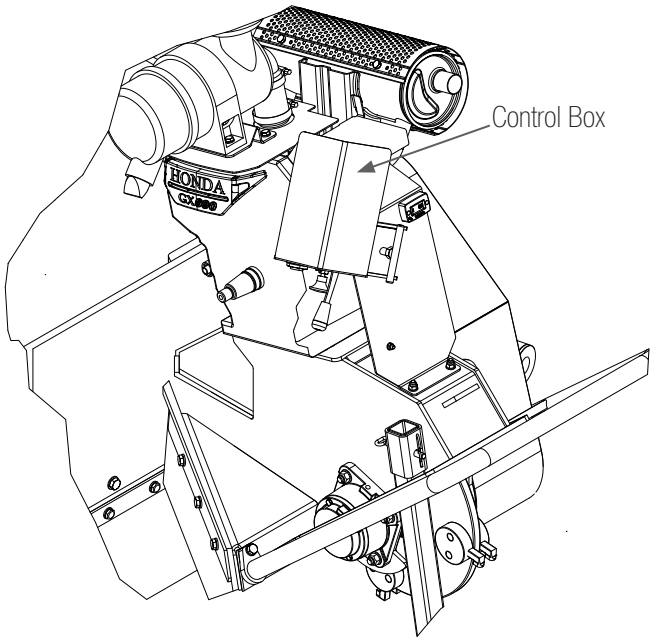


Figure 1. Control Box in stored position

5. Affix the Terminator control box to the right hand loader arm as shown in Figure 2. A butterfly bolt is provided for convenience and alleviates the necessity for tools.

6. Ensure the bolt is tightened securely. Make sure the umbilical sleeve is routed on top of the arm and not subject to any crush points.

7. Plug the auxiliary cut-out connection firmly into the corresponding plug on the loader.

8. Attach QRCs to the hydraulic remote connections of the loader.

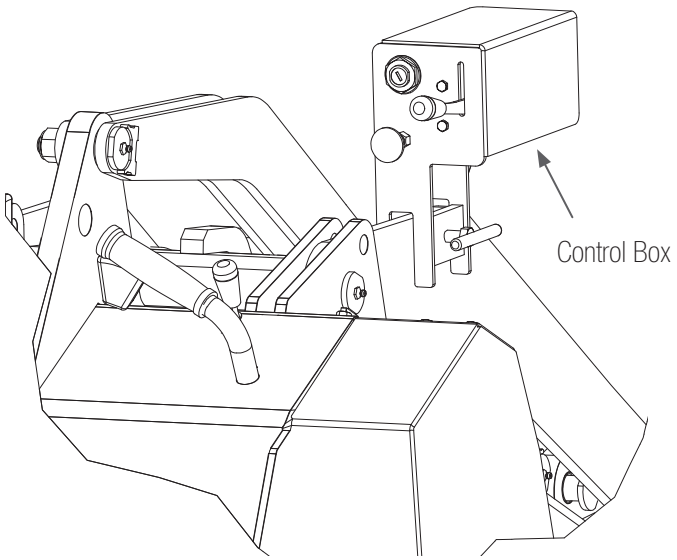


Figure 2. Control Box clamped to Loader Arm

9. Plug in the battery lead connection ensuring correct alignment of the terminals.

10. Ensure hoses and harnesses are free from pinching and rubbing on loader tyres or tracks.

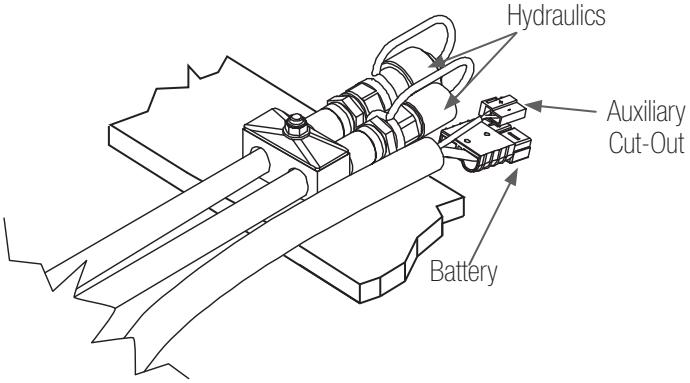


Figure 3. Digga Terminator connections

11. If the Digga Terminator is fitted with the Stump Grinder arm lock, affix it to the left-hand side of the loader, ensuring the pin is correctly positioned in its receptacle and is locked using the attached "R" clip. See Figure 4.

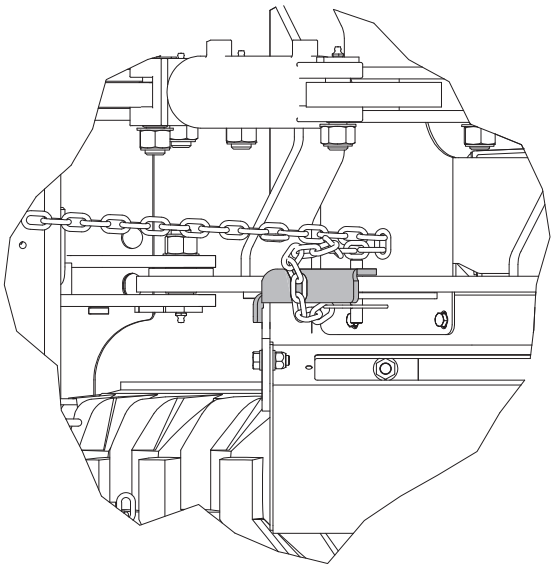


Figure 4. Arm lock clamped to the loader arm.

DANGER

The arm lock limits the lifting of the attachment. Do not raise the grinding wheel more than 250mm (10") above the ground when in use.

12. Move the front leg and the back legs into the operational position by removing the pin and R Clip holding them in place. Place the front leg on top of the safety guard and slide the rear legs upwards. Once in position secure with pin and R Clip. See Figure 5.

13. Ensure non-operating personnel are at least 12 metres (40 feet) from any point of the loader or Terminator.

14. Ensure there are no obstructions around the loader or Terminator. Remove any wheel chocks.

15. Do not operate any of the loader or attachment control levers including auxiliary power take-off unless you are standing with both feet on the platform of the loader. Keep hands, feet and clothing away from all moving parts, including hydraulic rams and keep all body parts within the confines of the loader.

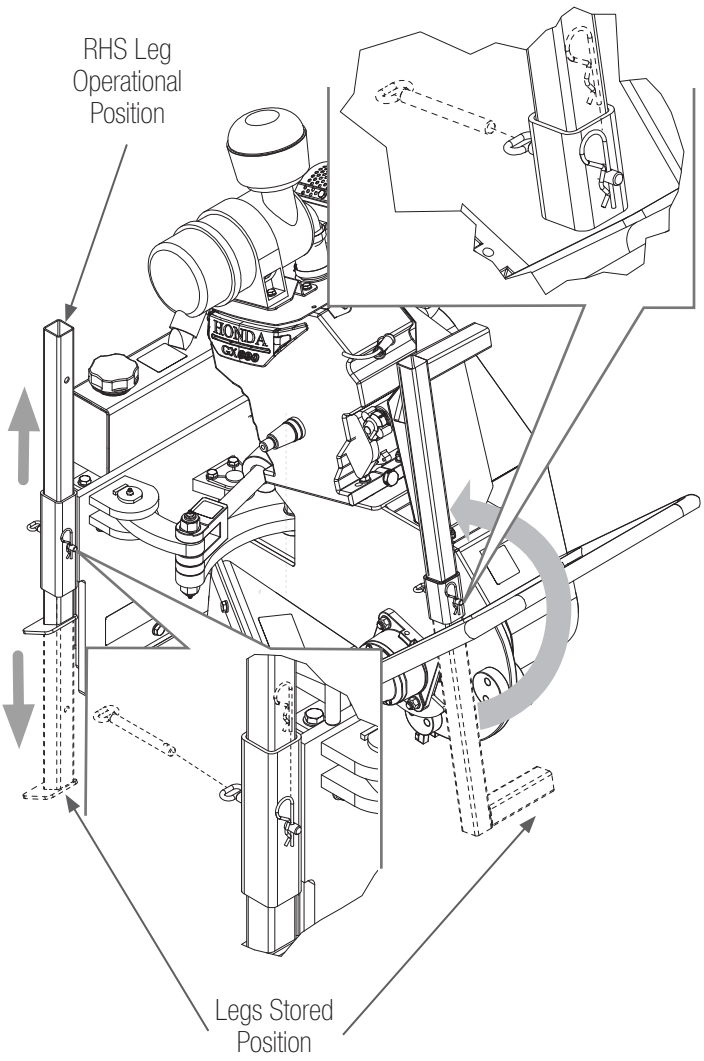


Figure 5. Legs operational and stored positions.

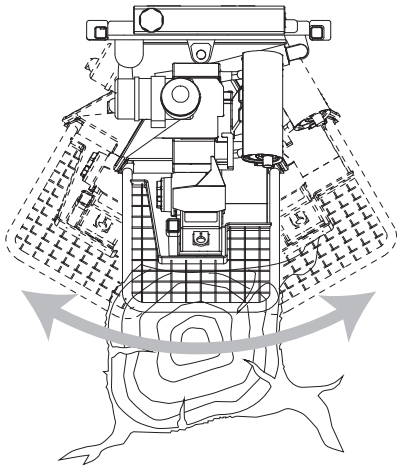
Controls

The Digga Terminator Stump Grinder is started / turned off and it's speed / RPM is controlled via the loader arm mounted control box. See "Dash Controls" on page 25.

The hosting machine controls are used to operate the up / down (tilt) and slewing operation of the Digga Terminator.

The Digga Terminator is supplied with 2 hydraulic hoses and couplers which are to be connected to the hosting machine hydraulic remotes to operate the slewing motion.

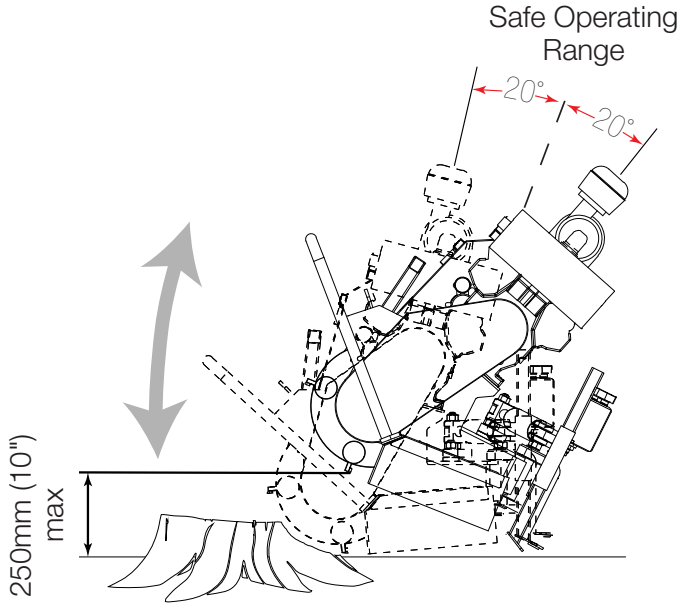
Check your loaders operators manual to determine which remotes to use and how to connect the couplers onto the machine.



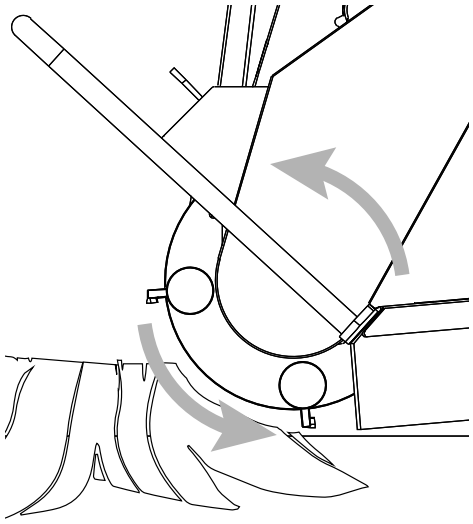
Grinder Sweep Action (viewed from the top of the attachment)

DANGER

Operate the attachment only within the safe operating range of 20 degrees forward or backward. Do not raise the grinding wheel more than 250mm (10") above the ground when in use.



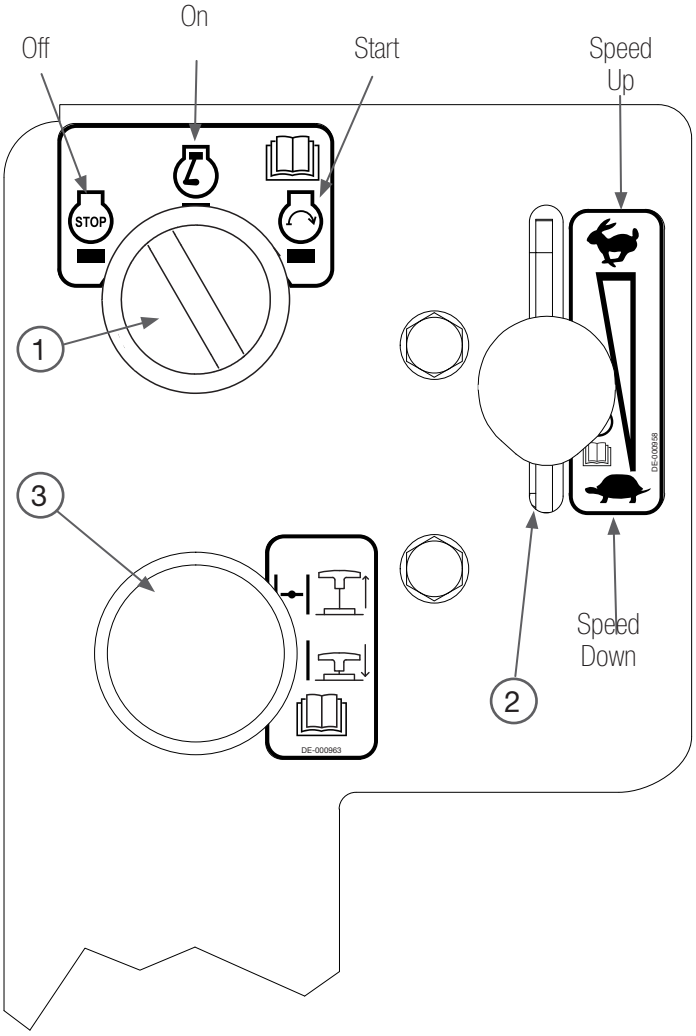
Tilt Grinder Action



Rotary Grinder Action (counter-clockwise viewed from the left-hand-side of the attachment)

Dash Controls

The dash is located in the Control Box (see "Fitting the attachment" on page 22) and allows to control the Digga Terminator engine.



1 - Ignition Switch

The ignition switch is turned with one of the 2 keys supplied with your Digga Terminator. It has 3 positions:

OFF- Shuts off the engine and stops the hour-meter. The key can be inserted and removed only in this position.

ON -This is the normal ignition switch position when operating your Digga Terminator. The hour-meter accrues working hours in this position.

START - Use this position only to start the engine. The switch returns to the ON position once you release the ignition switch. Do not keep the switch in this position for more than 5 seconds at a time as it might overheat the starter motor.

2 - Throttle

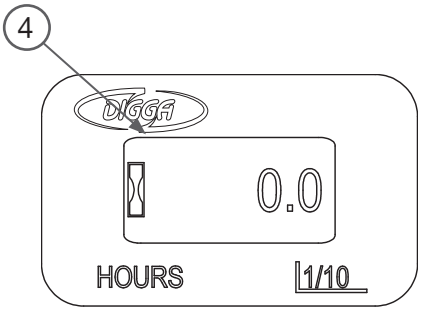
Slide up to increase the engine speed. Slide down to decrease the engine speed.

3 - Choke

Pull to CLOSE the choke and push to OPEN the choke. See "Starting" on page 26.

4 - Hour-meter

The hour-meter display registers working hours for maintenance purposes. See "About Service Tasks" on page 37.



Before Starting Up

Before starting up, the operator must be familiar with the content of this manual and understand all safety procedures (see "Safety Information" on page 7 and "Practice Safety at All Times" on page 11), then complete the following steps:

- Check the fuel level and fill up if necessary (see "Refuelling" on page 30). Ensure that the fuel is the correct type, free from impurities or water.
- Check that both the crankcase oil level is within operating limits (see "Engine Oil" on page 38).
- Ensure that the attachment mounting plate locking pins are correctly engaged.
- Finally, complete the "Daily Checklist" on page 32. With all items checked and compliant, you are ready to start working.

CAUTION

Always ensure that the attachment locking pins are fully engaged at all times.

Starting

After completing the "Daily Checklist" on page 32 you are able to start the Digga Terminator:

1. Ensure the grinder is off any obstacles and free to rotate.

CAUTION

Do not attempt to start the stump grinder under load.

2. Step onto the working platform.

NOTE
The Digga Terminator is fitted with a safety ('Dead Men') switch connected to the working platform of the hosting machine. It prevents the engine to start/operate when the operator is not on the working platform. See "Host Machine Connections" on page 15.

3. To start a cold engine, pull the choke lever to the CLOSE position. To restart a warm engine, leave the choke lever in the OPEN position (pushed in). See "Dash Controls" on page 25.
4. Move the throttle lever from the SLOW position, about 1/3 of the way toward the FAST position.
5. Turn the ignition switch to the ON position.
6. Operate the starter motor turning the ignition switch to the START position and holding it there until the engine starts. If the engine fails to start within 5 seconds, release the ignition switch and wait at least 10 seconds before a new attempt.

NOTE
Using the START position for more than 5 seconds at a time will overheat the starter motor and can damage it.

7. Warm up the engine for 2 or 3 minutes.
8. If the choke lever was moved to the CLOSE position to start the engine, gradually move it to the OPEN position as the engine warms up.
9. Commence work.

The equipment must be operated only by experienced operators. Trainee users should practice in a safe and clear area until competent. The recommended normal operating speed of the equipment is 2/3 to 3/4 throttle.

Cold Weather Starting

- Do not allow the starter motor to run continuously for more than 5 seconds.
- Be sure to warm up the engine, not only in winter, but also in warmer seasons. An insufficiently warmed-up engine can shorten its service life.

Grinding

1. Ensure non-operating personnel are at least 12 metres (40 ft) from any point of the Loader or Terminator.

2. Ensure there are no obstructions around the Loader or Terminator. Remove any wheel chocks.

3. Inspect the work area and remove any objects and obstructions that could damage the cutting teeth or be projected out of the working area, such as rocks, concrete and steel.

WARNING

Ensure the teeth do not come into contact with any material other than wood.

4. Do not operate any of the Loader or attachment control levers including auxiliary power take-off unless you are standing with both feet on the platform of the Loader. Keep hands, feet and clothing away from all moving parts, including hydraulic rams and keep all body parts within the confines of the loader.

5. Start the loader and then start the Terminator engine by engaging the key switch. Refer to the engine manual for correct throttle starting positions in warm and cold conditions. Turn the starter key switch to start the engine.

6. Using low engine speed on the Loader (Smooth idle RPM for the sweep action), and 1/3 to 1/2 throttle, on the Terminator, using slow smooth movements; test all controls and functions of both the Loader and Terminator ensuring correct operation.

7. The Stump Grinder Throttle is to be set at about ¾ for normal grinding operations.

8. Commence grinding operations with "light cuts", removing small portions of the stump each sweep, and sweeping slowly. Increase the loading gradually by taking larger stump portions per sweep and sweeping faster. Respect the limitations of the equipment.

WARNING

Do not raise the grinding wheel more than 250mm (10") above the ground when in use.

Shutting Down

To shut down your Digga Terminator:

1. Select a levelled ground to stop the machine.
2. Reduce the engine speed to idle pulling the throttle lever to the position SLOW.
3. Turn off the Digga Terminator engine turning the ignition key to the position OFF.
4. Make sure the engine shut-off and the grinding wheel is not turning.
5. Remove the key from the ignition switch to prevent unauthorised use.

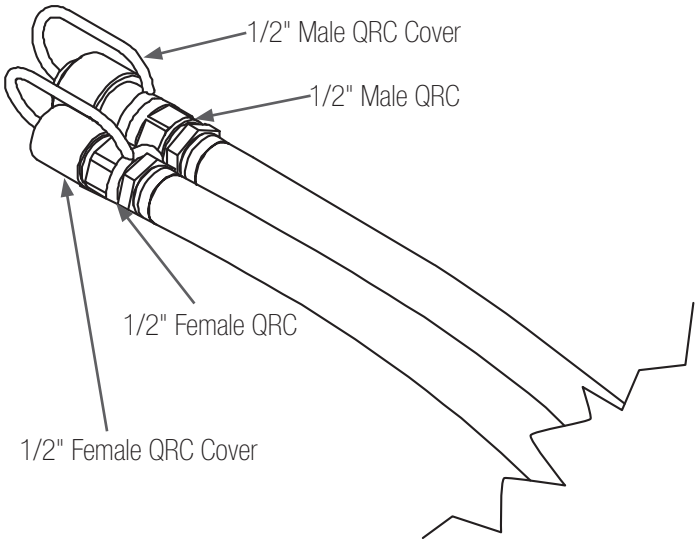
NOTE
If the engine is fitted with a fuel valve, turn it to CLOSE position to prevent fuel from flooding the engine.

Hydraulic Connections

Digga Terminators are fitted with hydraulic Quick Release Couplings (QRC) to connect to the hosting machine hydraulic remotes. The QRCs are paired as male and female to ensure correct hose connections.

HYDRAULIC FITTING	PART NUMBER
1/2' Male QRC	HS-000009
Male QRC Cover	HC-000032
1/2' Female QRC	HS-000010
Female QRC Cover	HC-000033

NOTE
The *Quick Release Couplings (QRC)* can be fitted with dust caps to prevent contaminants and dust from entering the hydraulic system. Ensure the Quick Release Couplings are clean before connecting hydraulic lines.



Detaching

To remove your Digga Terminator from the loader:

1. Slide the rear legs downwards and lock them in place with pins and R-clips.

2. Remove the front leg stored above the front guard and slide it into the receptacle below the front guard. Lock it in place using the pin and R-clip.

3. Lower the attachment to the ground.

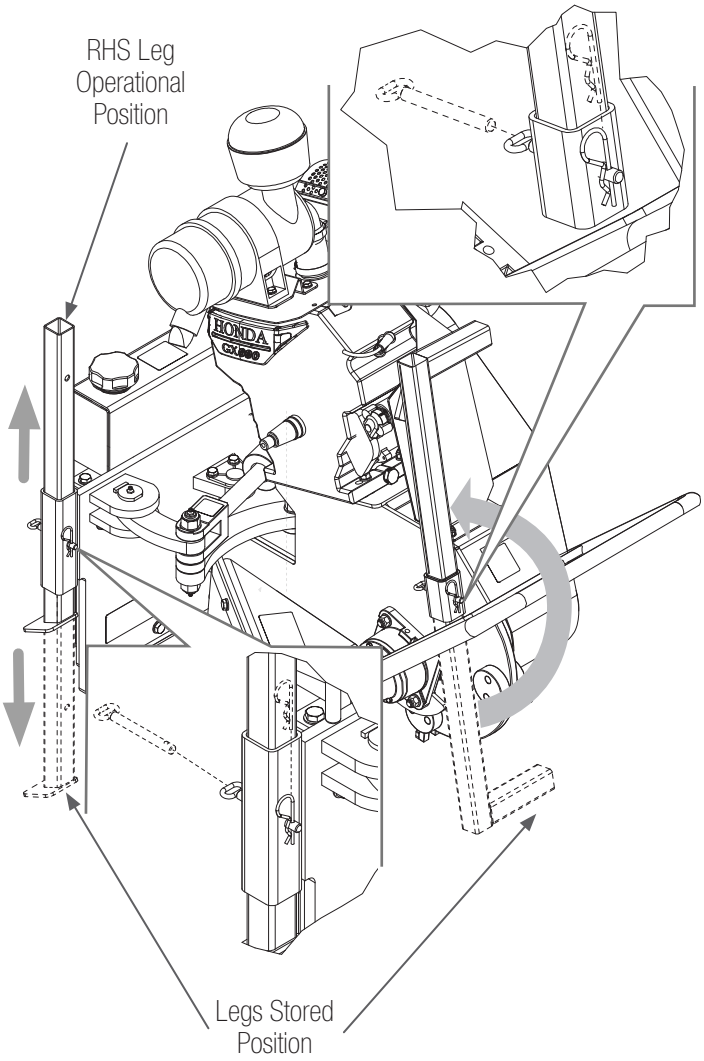
4. Unplug the auxiliary cut-out and battery lead connections.

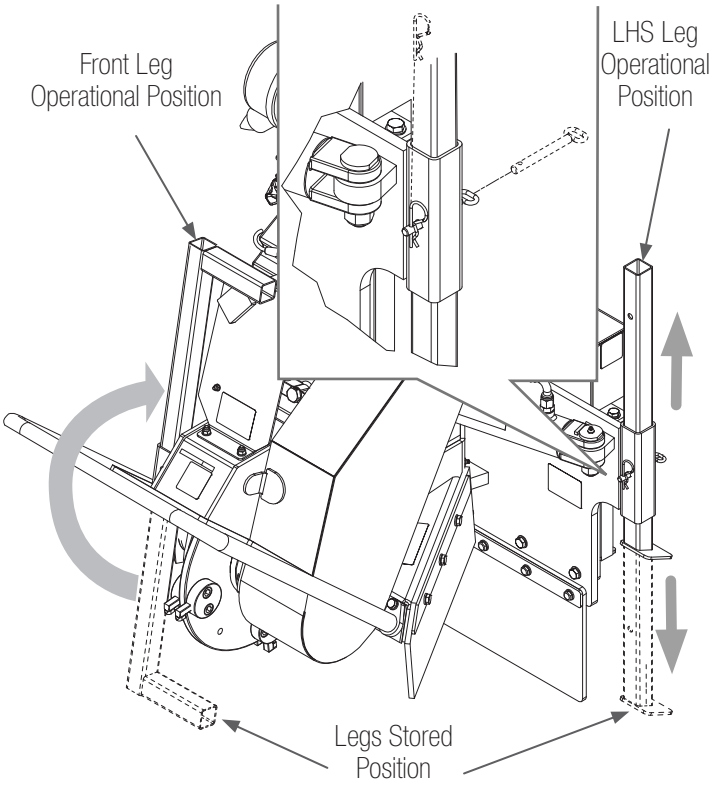
5. Disconnect the hydraulic QRCs.

6. Detach the Terminator remote control box from the loader arm and affix it to its stored position located at the front of the attachment. See Figure 1 on page 22.

7. Make sure the hoses and harnesses are correctly stowed and that the Digga Terminator is free to be released.

8. Release the attachment locking pins and disengage the Digga Terminator from the machine.





Refuelling

The Digga Terminator is fitted with a 9 litre fuel tank. Refuel in a well-ventilated area with the engine stopped (see "Shutting Down" on page 28).

Avoid refuelling while the Digga Terminator is over a truck or trailer tray. Always fully lower the attachment to the ground to discharge static electricity.

Never refuel the engine in an enclosed space or where petrol (gasoline) fumes may reach flames or sparks.

Recommended Fuel

The Honda GX690 Engine that powers the Digga Terminator is certified to operate on unleaded petrol (gasoline) with a pump octane rating of 86 or higher (a research octane rating of 91 or higher).

Unleaded petrol (gasoline) containing no more than 10% ethanol (E10) or 5% methanol by volume can be used. See Honda Engine Manual for more information.

Never use stale or contaminated petrol (gasoline) or any fuel mixture. Avoid getting dirt or water in the fuel tank.

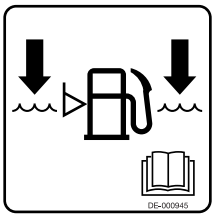
Refuelling procedure

If the engine has been running, allow it to cool. Wearing all required PPE, open the fuel cap and check the fuel level. Be mindful of fuel vapours when opening the fuel cap.

Refuel carefully to avoid spilling fuel. Do not refill over the level indicated on the max fuel level decal.

Keep fuel away from appliance pilot lights, barbecues, electric appliances, power tools, etc.

Spilled fuel is not only a fire hazard, but also causes environmental damage. Contain and wipe up spills immediately. Follow local environmental regulations to dispose of contaminated soil and containment materials.



DANGER

Petrol (gasoline) is highly flammable. Allow the engine and muffler to cool down before refuelling. Follow all safety instruction described above.

FLAMMABLE LIQUID

Digga Handover Worksheets

The following 3 pages are to be filled out as part of the machine handover with the centre spread removed by the Digga representative.

The information will be stored by Digga for warranty and after sales service.

Please note: The centre 4 pages do not form part of the owners operators manual.

TO BE FILLED OUT BY DIGGA MANUFACTURING

Record the Main Component Serial Numbers

Terminator Stump Grinder

Serial Number	
Engine Type / Power	☐ Honda GXV690 - Petrol - 24HP
Engine Serial Number	
Slew Ram	
Purchase Date	

Additional Manufacturing Notes

Checklist

MODEL: TERMINATOR STUMP GRINDER	INSPECTOR'S NAME:
SERIAL NUMBER:	MACHINE BUILT BY:
ENGINE NUMBER:	DATE:

VISUAL CHECK	✓	✗
1. Damage		
2. Loose bolts/nuts		
3. Rust		
4. Leakage oil		
5. Wiring		
6. Paint work		
7. Any untidy weld spots or runs		
8. Check for fitting alignment		
9. Is equipment clean and free of debris?		
10. Are hoses secured?		

SERVICE	✓	✗
2. Correct attachment plate/operation OK with test jig		
3. Lubricate, grease all linkages		
4. All pins and bushes fitted and tight		
5. Cutter wheel bolts tensioned to 355 Nm (260 ft-lb)		
6. Belt correctly tensioned		
7. Are cutter wheel and teeth holders tight		
8. Air element and hose clearance and connections tight		
9. Are QRCs correctly aligned and covers fitted?		
10. Spare key in compendium		
11. Are guards and flaps fitted?		
12. Ensure control knobs are not split and are secured		

OPERATIONAL CHECK	✓	✗
1. Slew cylinder stops in correct positions		
2. Attachment plate		
3. Throttle lever and choke control (not too tight or loose)		
4. Levers and linkages		
5. Unusual noises or vibrations.		
6. Petrol (Gasoline) engine idle 1350-1450 RPM		
7. Petrol (Gasoline) engine max 3550-3650 RPM		
8. Is engine easy to start?		
9. Is hour meter working? Test time = hrs.		
10. Aux stop cable: Cable length is correct; tested 5 times		

GUIDANCE	✓	✗
1. Correct stickers applied for country/export		
2. Identification plate (correct number stamped)		
3. Operator's Manual present		
4. Engine Manual (Honda) present		

FLUID COMPARTMENT CHECK	✓	✗
1. Engine oil level		
2. Inspect fuel tanks for leaks (if auxiliary supplied)		

OTHER	✓	✗
1. Is the "Passed By" sticker attached and signed?		
2. Check Terminator to be shipped against order		
3. Is the Terminator ready for delivery?		
4. Is teeth gauge attached?		

NOTE:
Where optional parts are Not Fitted or Not Applicable (N/A)
Insert a Dash: —

Received the above equipment and documentation as stated above in good condition. The correct operation of the equipment has been explained to our satisfaction. We understand that this equipment should be operated by a properly trained operator. We are aware that the use of this equipment in any manner or place for which it is not designed will render it unsafe.

DISTRIBUTOR'S NAME:	INSPECTOR'S SIGNATURE:

Delivery Sheet & Warranty Registration

Owner Name	Date
Owner Street Address	
Owner City, State, Post Code / ZIP	
Owner Email	Owner Telephone
Dealer/Delivered by	

Products	Serial Number
(1)	
(2)	
(3)	
(4)	
(5)	

Customer's Name _____

	Salesperson Initials	Owner Initials
Accept delivery of the equipment as detailed above. All equipment has been inspected and is accepted.		
Have had the operational and safety procedures explained to me for the equipment and accessories and have been provided a copy of these procedures for reference and use.		
Have received a copy and understand the Operator's Manual and safety information contained therein for all equipment and accessories supplied.		
Owner: I understand that I am required to perform a risk assessment covering all tasks before I operate this machine and/or any attachment.		
Understand the warranty conditions and maintenance requirements for the equipment and accessories.		

Comments

PURCHASER'S SIGNATURE _____ DATE _____

ADDITIONAL NOTES FROM THE EQUIPMENT HANDOVER

EQUIPMENT OWNER UNDERSTANDING

I _____ (the Purchaser) have read and fully understand the Operator's Manual, safety instructions and warranty conditions.

Warranty will only be accepted if this certificate is completed and returned to:

AUSTRALIA:

DIGGA AUSTRALIA PTY LTD

4 Octal Street, Yatala, QLD, 4207

Email: info@digga.com

UNITED STATES:

DIGGA NORTH AMERICA

2325 Industrial Parkway SW, Dyersville, Iowa 52040

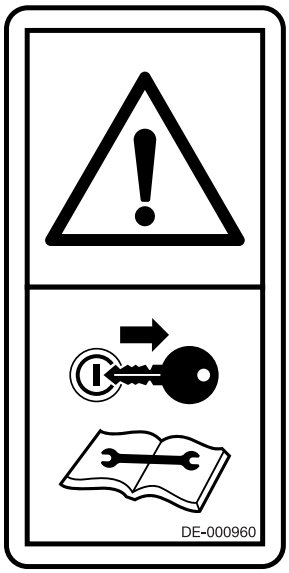
Email: infous@digga.com

PURCHASER'S SIGNATURE _____ DATE _____

Maintain Your Digga Terminator

Inspection and Checks

Before operating the Digga Terminator each day, the operator must complete the inspection and checks as outlined on the following pages. This inspection will ensure the equipment is in safe working order and aid in the detection of malfunctions between scheduled maintenance checks.



CAUTION

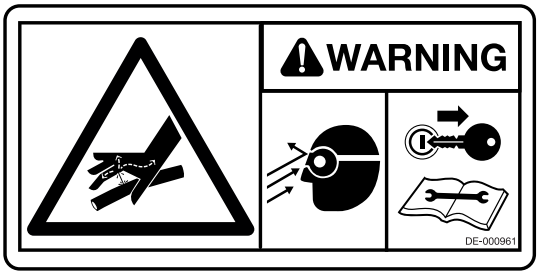
While it may not be the operator's responsibility to perform mechanical maintenance, he or she should be thoroughly familiar with the equipment. Such familiarity is critical to operator safety.

DANGER

In addition to ensuring safety, the daily inspection can prevent many costly maintenance jobs. Should an issue arise, however, consult an authorised Digga technician.

CAUTION

Before any maintenance is performed, switch engine off and remove the key. Never leave the key in an unattended machine.



The owner should retain evidence that proper maintenance has been performed as prescribed. A claim against a warranty will not qualify if it results not from defective material or authorised workmanship, but from a lack of maintenance.

Never operate a Digga Terminator that is known to be damaged or malfunctioning. Remove the key from the ignition and tag out the machine using an "Out of Service" tag. Contact your Digga service technician.

Defective components, equipment malfunctions, or both can jeopardise the safety of the operator and other personnel while also causing extensive damage to your equipment. Remember: Poorly maintained machinery can be a significant operational hazard.

WARNING

This machine operates on high hydraulic fluid pressure. Always wear eye protection when operating or performing maintenance on this machine. See "Hydraulic Connections" on page 28 on safe connection and disconnection of attachments for hydraulic safety.

Daily Checklist

EQUIPMENT				
Element		Yes	No	Comment
Grinding Wheel	Teeth secure			
	Wheel secure			
	Free of obstructions or entanglements			
Teeth	Check cutting length with Teeth Gauge			
Guarding	Rubber flaps condition			
	Belt cover in good condition and secure			
	Front guard in good condition and secure			
Drive Belts	Check tension			
	Check for wear and tear			
Hydraulics	Good condition of hoses (check for leaks)			
	Good condition of casings (check for leaks)			
	Good condition of rams (check for leaks)			
Arm lock	Secure and correctly positioned			
Controls	Correct operation			
	Responsiveness			
Structure	Adequate weld condition			
	Free of cracks or damage			
	Linkage pins greased			
Bolts and fasteners	Check fasteners and pins for wear or damage			
	Tight			
	None missing or damaged			
Electrical	Connectors and wiring loom			
	Remote Start Switch			
	Safety (dead-man) switch operation			

Daily Checklist (continued)

Element		Yes	No	Comment
Safety decals	Legible			
	All in place			
Engine	Adequate crankcase oil level			
	Check air cleaner/filter			
Air Management	Empty pre-filter cleaner bowl (if fitted)			
	Clean air filter			
Fuel	No leakage			
	Adequate fuel level			
Operator's Manual	Present with machine			

Long-Term Storage

If your Digga Terminator must be stored for an extended period of time, follow these guidelines for preparation and storage.

Preparation

- Complete the following maintenance prior to storage:
- Thoroughly clean the equipment including the engine compartment.
- Touch up the paint to prevent rusting.
- Replace worn or damaged parts.
- Lubricate and grease any exposed cylinder rods.
- Replace all fluids and filters.
- Add fuel stabilizer to the fuel tank and operate the engine for several minutes to fully circulate the stabilizer. Move the fuel shut-off valve to OFF position.

Storage

To store, following these steps:

- Move the attachment to a dry and protected location.
- Lower the 3 legs and lock them in place using the locking pins. Replace the r-clips to each pin.
- Disengage the attachment from the loader.
- Remove the remote control and arm locks. Accommodate it over the attachment.
- Cover the exhaust pipe opening and any other openings that might admit small animals.
- Tag the attachment to clearly indicate it is in non-operational storage condition.

Post-Storage and Return to Operation

To return the Digga Terminator to operation after a period of long-term storage, complete these steps:

- Remove cover(s) from exhaust pipe and other locations.
- Remove grease from exposed cylinder rods.
- Complete maintenance inspection and correct any issues detected.
- Lubricate the linkage pins.
- Install the attachment. See "Fitting the attachment" on page 22.
- Start the engine and operate for several minutes. See "Before Starting Up" on page 26 and "Starting" on page 26.
- Observe engine, panels, and systems for correct operation.
- Operate the equipment, checking for correct function.
- Stop the engine and check for leaks. If detected, repair before returning the equipment to service.

End-of-Service-Life Disposal

When your Digga Terminator has reached the end of its useful life, responsible disposal of its parts, components, and fluids is required. Fortunately, much of a Digga Terminator can be recycled.

NOTE
Regulations and approaches related to the disposal of materials vary from region to region. Learn more about guidelines specific to your location before proceeding with equipment disposal.

CAUTION

The steps required for proper disposal may expose the dismantler to hazardous or toxic materials. Proper PPE and safety precautions are required.

The following provides general steps for proper end-of-service-life disposal:

Remove Hazardous Materials

Remove hazardous materials in an area with a sturdy, non-permeable floor.

Drain all hazardous fluids from petrol/gasoline fuel tank, oil reservoirs, and similar.

Remove items containing toxic metals, such as mercury switches and lead battery connectors.

NOTE
Each of these materials and the rags, paper, sawdust, and gloves contaminated by them must be captured in suitable containers and disposed of properly. Avoid scattering this toxic material in the environment.

Dismantle the equipment

Dismantle the equipment for usable or recyclable parts.

Remove all usable or recyclable parts.

Sell or store usable parts in safe, environmentally suitable ways.

Recycle remaining parts through local environmental or recycling centres.

Recycle the metal hulk.

After identifying a metal recycling vendor in your area, inquire about their requirements for preparing the metal hulk for recycling.

As required by the metal recycler, remove all plastic, synthetic fabrics, and other non-metal components.

Perform Service Tasks

About Service Tasks

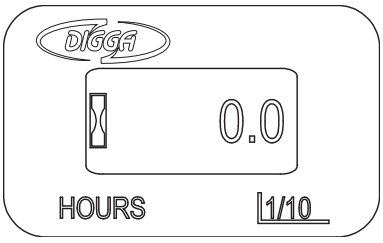
The following service work should be completed only by a qualified Digga service technician. Required service intervals are shown in the next section.

Determine Hours of Operation

Total hours of equipment operation are displayed on the hour meter.

Service Interval Indicator

When a service interval has been reached, the display will flash. Flashing ends after a two-hour operating period has passed. This is a generic setting from the gauge supplier. Please refer to "Service Intervals and Records" on page 44 for correct service intervals.

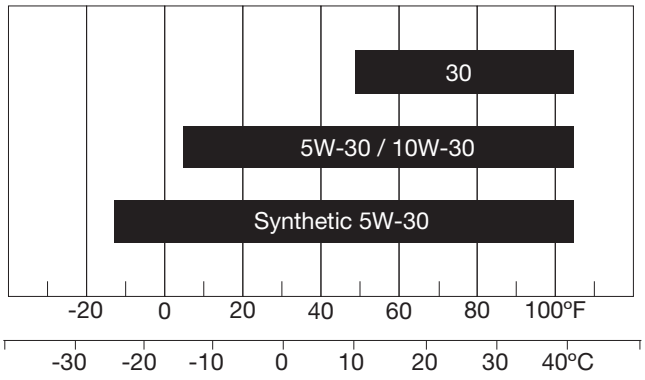


Engine Oil

Check the engine oil level daily (see "Daily Checklist" on page 32). See Honda Engine Manual for details.

Change the engine oil after the first 20 hours of operation to ensure bed in service of the engine. Thereafter, change the oil after every 100 hours.

Engine oil type SAE 10W-30 is generally recommended. See Honda Engine Manual for details.



AMBIENT TEMPERATURE

DANGER

To avoid unintended start-up during service and repairs, attach a "Do Not Operate" or similar warning tag in the driver area.

NOTE
Please contact Digga for assistance with service and parts.

Engine oil filter

Replace the oil filter after every 100 hours of operation. See engine manual for details.

Fuel Filter

Replace the fuel filter after every 100 hours.

Idle Speed

Check engine idle speed after every 200 hours of operation. Adjust if out of specification. See Honda engine manual for details.

REPLACEMENT PARTS		
Description	**Part Number**	**Qty**
Fuel Filter 1/4" in-line	DL-000714	1
Spark Plug NGK (ZFR5F-NGK)	KS-000027	2
Air Filter Element	L120682	**1**
Engine oil filter (Honda)	L115910	1

NOTE
Please contact Digga for assistance with service and parts

Valve Clearance

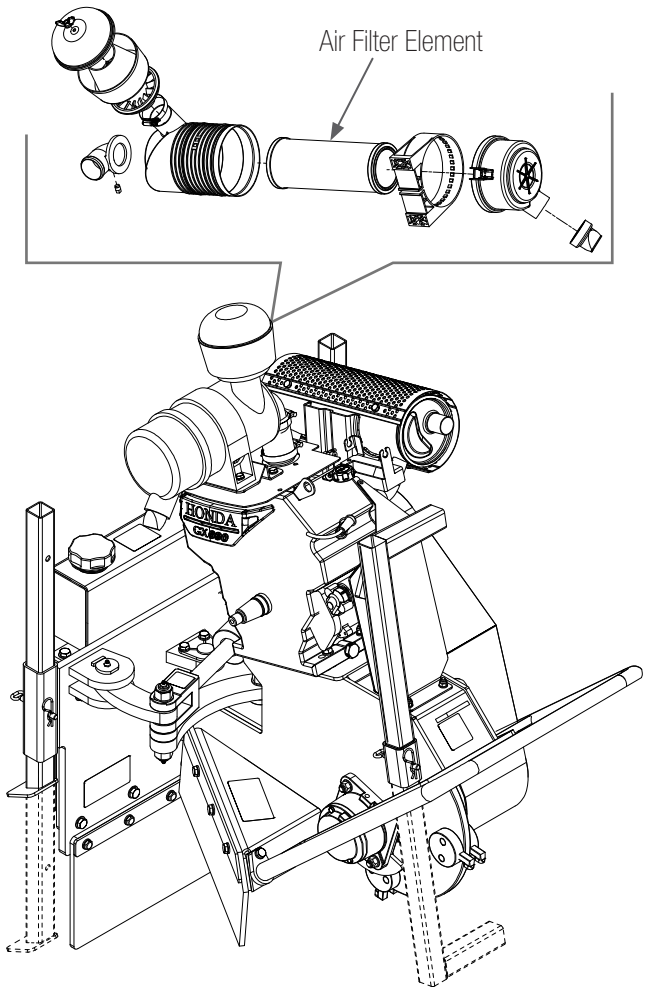
Check and adjust engine valve clearance after every 200 hours of operation. See Honda Engine Manual for details.

Spark Plugs

Inspect and adjust the spark plug gap every 100 hours. Replace the spark plugs every 200 hours. See the Honda engine manual for details.

Air Cleaner

Inspect and clean the engine air filter every day. Replace the air filter element after every 100 hours of operation, or sooner if operating in a dusty environment.



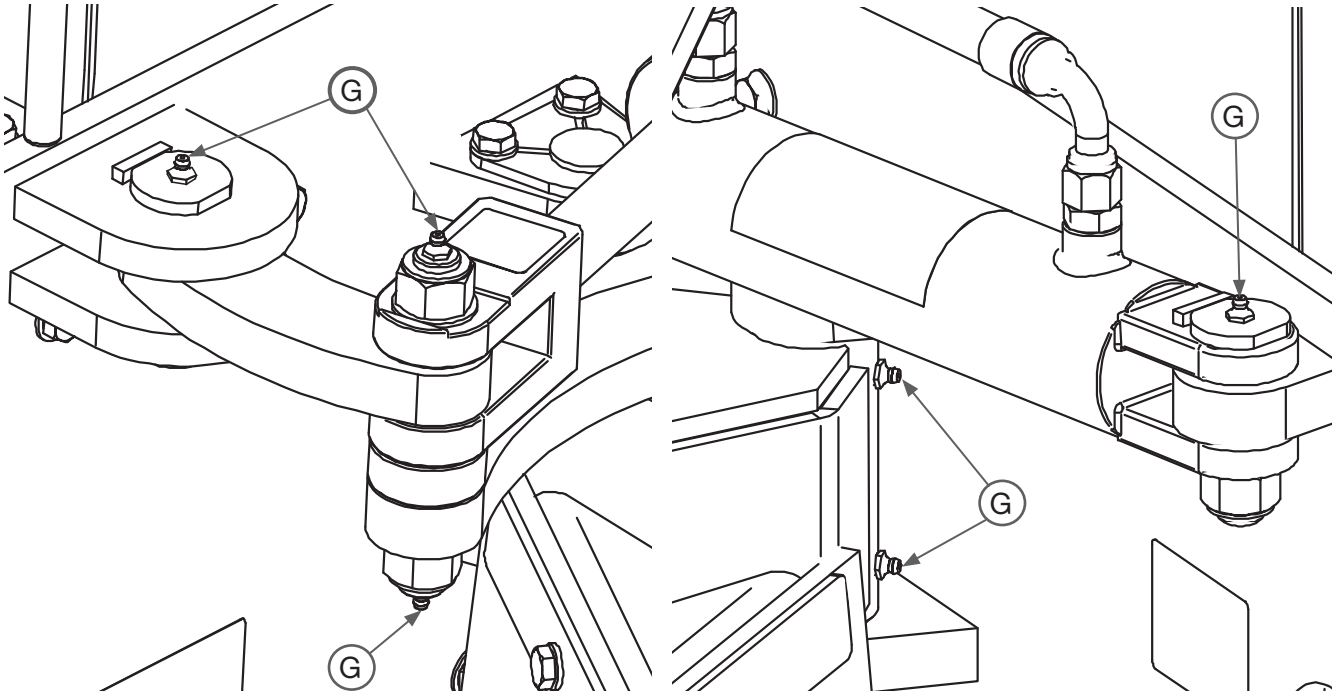
Service Tasks: Grease Nipples

Grease

After every 9-10 operating hours, grease each of the linkage pins, using an appropriate grease (multi-purpose pin grease). During greasing, also inspect for wear.

CAUTION

The frequency of re-greasing depends on the workload and the severity of the working conditions. Re-greasing during the day of operation may be necessary.

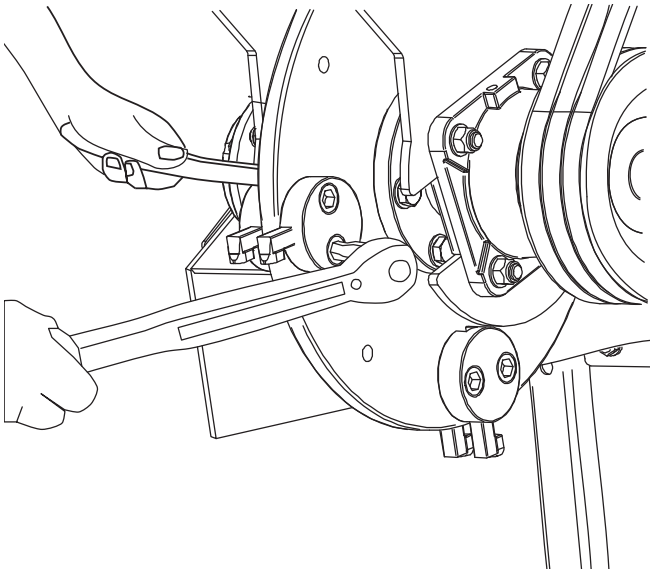


NOTE
The location of the grease-points are indicated above, It is important to grease the attachment regularly to prevent friction damage between moving parts from occurring.

Service Tasks: Cutters

Check cutter teeth daily for wear and damage as part of the daily checks. Replace worn or damaged teeth.

There is a pair of cutter teeth located in 4 positions around the cutter wheel. It is essential that these teeth are correctly positioned and securely retained.



NOTE
All 8 bolts to be tightened to 355Nm (260 lb ft).

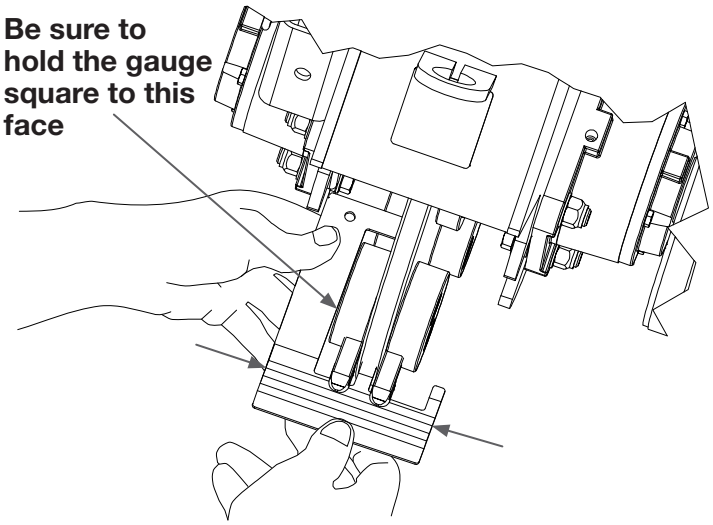
From the factory, the cutter wheel is supplied with 4 pairs of straight cutters. Cranked right and left hand cutters can be fitted by the operator to suit the application.

When mixing straight and cranked cutters it is important to make sure that the grinder wheel stays balanced. This means that the same cutter combination is installed in the diametrically opposed position on the grinder wheel.

Cutter Projection

It is important that all cutters project the same distance from the grinder wheel. This can be achieved with the use of a gauge plate supplied.

Replace teeth as necessary when badly worn, damaged or uneven.



NOTE
All cutter teeth must project to the same gauge guide line.

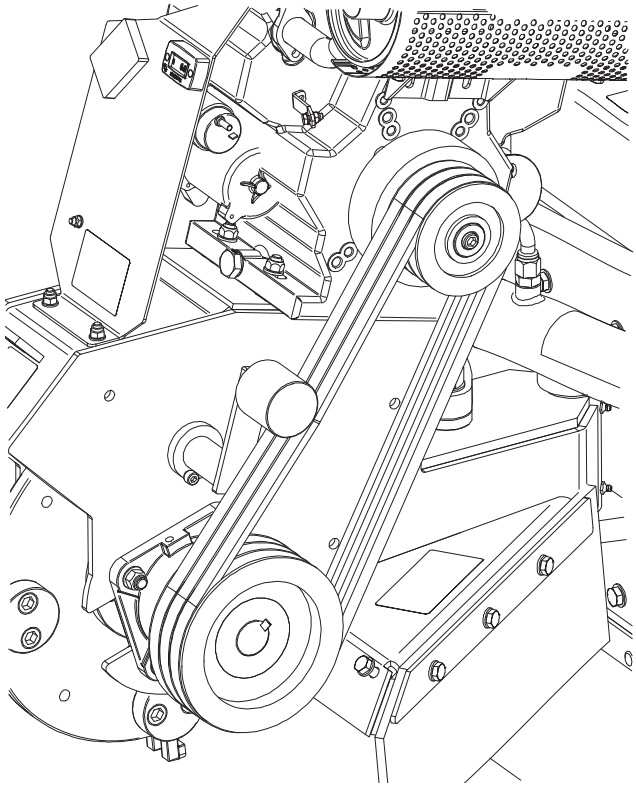
Service Tasks: Drive Belts

The belt tensioner is self adjusting; remove it to change belts.

Check belts after every 100 hours for wear and tear and replace as necessary.

Replace the belts every 500 hours or earlier if required. To ensure even tension and wear, replace all 3 belts together.

REPLACEMENT PARTS	
Description	**Part Number**
Drive Belt	L173312
Roller Tensioner	L173410



NOTE
Remove belt guard and safety bar to get access to drive belts. Reinstall the guard and cover immediately after servicing belts.

DANGER

Do not operate the equipment without all guards and covers correctly installed.

Service Tasks: Visual Inspection

Check all over machine for loose bolts, cracks, and dents after every 100 operating hours. Tighten loose bolts, and replace if worn or damaged.

Ensure all Safety Decals are clean and legible.

Inspections and Checks

Before each day's operation of the Digga Terminator Stump Grinder, the operator MUST perform the inspection and checks as outlined in the "Daily Checklist" on page 32.

The purpose of the operator's inspection is to keep the equipment in a safe working condition and to detect any signs of malfunctioning during normal operations between scheduled maintenance checks. While it may not be the operator's responsibility to perform mechanical maintenance, they should be thoroughly familiar with the unit, as this involves their own safety.

Many costly maintenance jobs can be prevented through observance of the operator maintenance inspections and checks.

For expert advice and quality service, consult an expert repairer. We recommend an authorised Digga repairer. The owner should retain evidence that proper maintenance has been performed as prescribed. A claim against a warranty will not qualify if it results from lack of maintenance and not from defective material or authorised workmanship

CAUTION

DO NOT operate a Digga Terminator that is known to be damaged or malfunctioning. Remove the key from the ignition and Tag Out the machine using an "Out of Service" tag and contact your Service Agent.

NOTE
Defective components and/or equipment malfunctions can jeopardise the safety of the operator and other personnel and can cause extensive damage to the unit. Remember, a poorly maintained unit could become a great operational hazard.

Service Intervals and Records

MAINTENANCE INTERVAL	TYPE	MIN	MIN	MAJ	MIN	MAJ	MIN	MAJ	MIN	MAJ	MIN	MAJ	MIN	MAJ	MIN	MAJ	MIN
	HOURS	20	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
ENGINE OIL		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ENGINE OIL FILTER		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
AIR FILTER ELEMENT *		I	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
AIR PRE FILTER FOAM *		I	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FUEL FILTER *		I	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I
SPARK PLUG		A	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A
SPARK ARRESTER**		I	C	C	C	C	C	C	C	C	C	C	C	C	C	C	R
IDLE SPEED		-	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-
VALVE CLEARANCE		-	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-
COMBUSTION CHAMBER		-	-	-	-	-	-	-	-	-	-	C	-	-	-	-	-
FUEL LINES		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	R
HYDRAULIC HOSES/QRCs		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
DRIVE BELTS		I	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R
CLUTCH		-	-	-	-	-	I	-	-	-	-	I	-	-	-	-	I
CUTTING TEETH		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I

DAILY	ITEMS TO BE CHECKED ON A DAILY BASIS															
	HOURS	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
AIR PRE FILTER FOAM *		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
VISUAL CHECK (CRACKS, WEAR)		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
GREASE NIPPLES/PINS		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L

Key

R	Replace
C	Clean as required
L	Lubricate as necessary
A	Adjust as necessary
I	Inspect, fill up, tighten, or replace as necessary

* Service may be required at more regular intervals if working in dusty conditions.
** If applicable

Maintenance Schedule

	MINOR SERVICE	MAJOR SERVICE	MINOR SERVICE	MAJOR SERVICE	MINOR SERVICE [1]
MODEL	100Hr	200Hr	300Hr	400Hr	500Hr
TERMINATOR	DATE_____ SERVICE STAMP	DATE_____ SERVICE STAMP	DATE_____ SERVICE STAMP	DATE_____ SERVICE STAMP	DATE_____ SERVICE STAMP
	MAJOR SERVICE	MINOR SERVICE	MAJOR SERVICE	MINOR SERVICE	MAJOR SERVICE [1 2]
MODEL	600Hr	700Hr	800Hr	900Hr	1000Hr
TERMINATOR	DATE_____ SERVICE STAMP	DATE_____ SERVICE STAMP	DATE_____ SERVICE STAMP	DATE_____ SERVICE STAMP	DATE_____ SERVICE STAMP

NOTE

The warranty on the equipment is subject to the periodic maintenance being carried out at the intervals specified.

If a service provider other than Digga is used, maintenance records from the trade- qualified provider may be required to support any claim.

Only genuine Digga spare parts should be used during servicing.

Maintenance Schedule (continued)

MODEL	MINOR SERVICE	MAJOR SERVICE	MINOR SERVICE	MAJOR SERVICE	MINOR SERVICE [1]
TERMINATOR	1100Hr	1200Hr	1300Hr	1400Hr	1500Hr
	DATE_____	DATE_____	DATE_____	DATE_____	DATE_____
	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP

MODEL	MAJOR SERVICE	MINOR SERVICE	MAJOR SERVICE	MINOR SERVICE	MAJOR SERVICE [1 2]
TERMINATOR	1600Hr	1700Hr	1800Hr	1900Hr	2000Hr
	DATE_____	DATE_____	DATE_____	DATE_____	DATE_____
	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP

NOTE

The warranty on the equipment is subject to the periodic maintenance being carried out at the intervals specified.

If a service provider other than Digga is used, maintenance records from the trade- qualified provider may be required to support any claim.

Only genuine Digga spare parts should be used during servicing.

Troubleshooting Guide

This section contains troubleshooting information to be used for locating and correcting problems which may develop with your Digga Terminator. Troubleshooting and maintenance information relating to the engine are contained in the engine manual.

TROUBLE	PROBABLE CAUSE	REMEDY
Engine will not crank over	Low battery output	Recharge or replace battery.
	Loose, disconnected, or broken battery cables.	Inspect cable(s) and tighten all connections. Repair or replace cables as necessary.
	Faulty Starter	Repair or replace starter
	Faulty Safety ('dead-man') switch	Check operation with continuity tester. Replace as necessary
	Faulty circuit wiring	Check wiring continuity
	Engine flooded	Remove spark plug and crank
Engine cranks but doesn't fire	No fuel in tank	Refill fuel tank
	Spark plug fouled	Check spark plug gap and clean or replace spark plug.
	Dirty fuel filter	Clean filter
	Carburettor flooded	Clear carburettor
	Fuel valve closed	Open valve
Engine runs but stalls.	Spark plug fouled	Check spark plug gap & clean or replace
	Fuel valve closed	Open valve
	Low battery output	Recharge or replace battery.
	Power take-off engaged	Shift power take-off lever into neutral

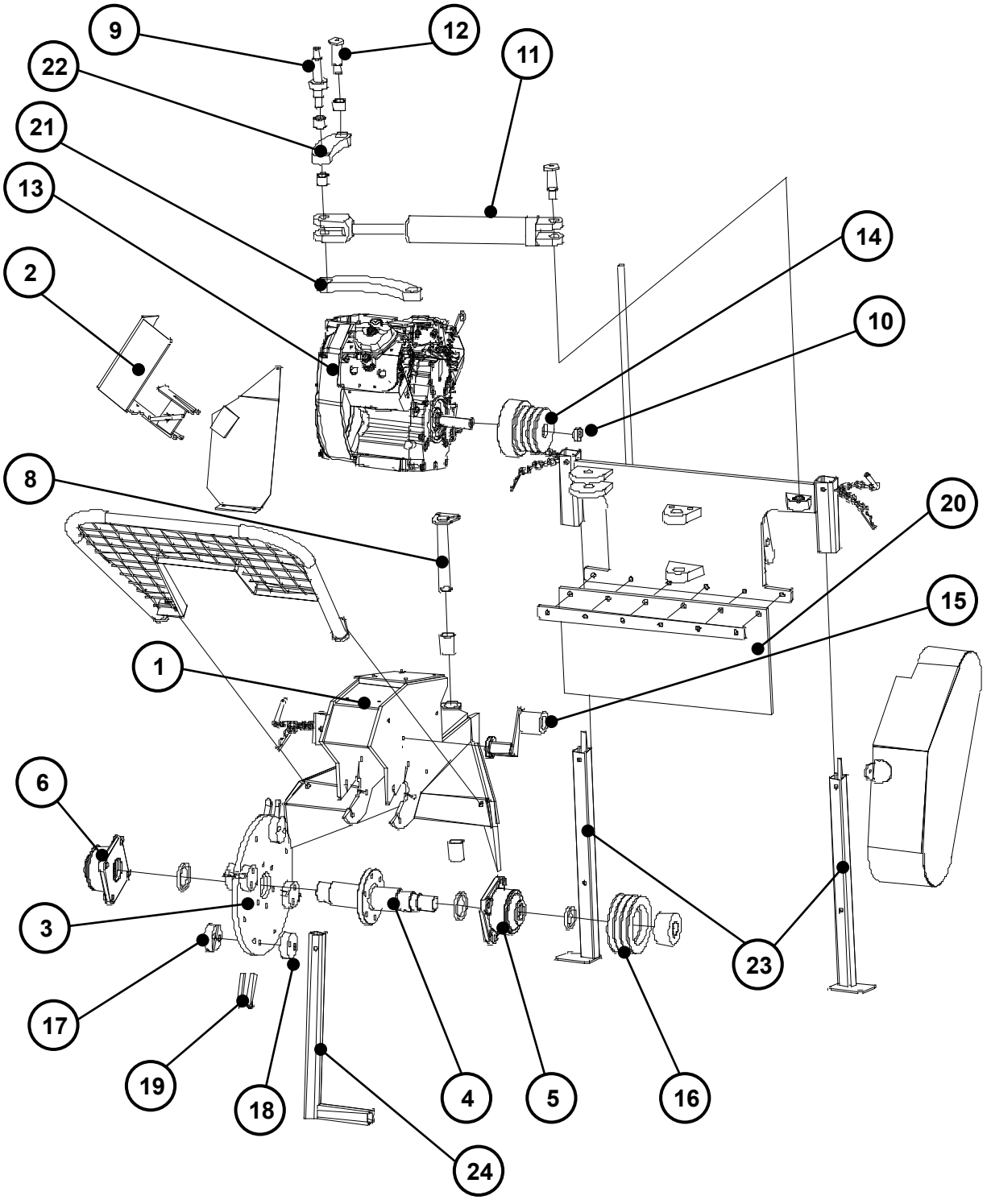
Specifications

Specifications: Terminator Stump Grinder

ENGINE		
Max RPM	3600 RPM	
Manufacturer / Model	Honda GX 690	
Fuel	Unleaded Petrol (gasoline)	
Rated Power[1]	16.5 kW @ 3600 RPM	22.1 HP @ 3600 rpm
DRIVE SYSTEM		
Slew Control	Soft Touch Hand Levers	
Throttle Control	Hand Levers	
DIMENSIONS		
Width	840 mm	33"
Height	1350 mm	53"
Length	1160 mm	46"
MASSES		
Terminator Operating Mass[2]	281 kg	620 lbs
Auxiliary Fuel Tank Mass[2]	17 kg	37.5 lbs
OPERATIONAL		
Variable Tilt	90 degrees	
Cutting Wheel Diameter	380 mm	15"
Cutting Wheel Maximum RPM	2365 rpm @ maximum engine speed	
Teeth	4 pairs	

1. Power Rating is the net power of the production engine only as measured in accordance with SAE J 1349 at 3600 RPM. Mass production engines vary from this value. Actual power output for the engine installed in the delivered machine may vary depending on numerous factors. These factors can include operation speed of the engine in the application, environmental conditions, and other variables.
2. With auxiliary fuel tank full.

Spare Parts

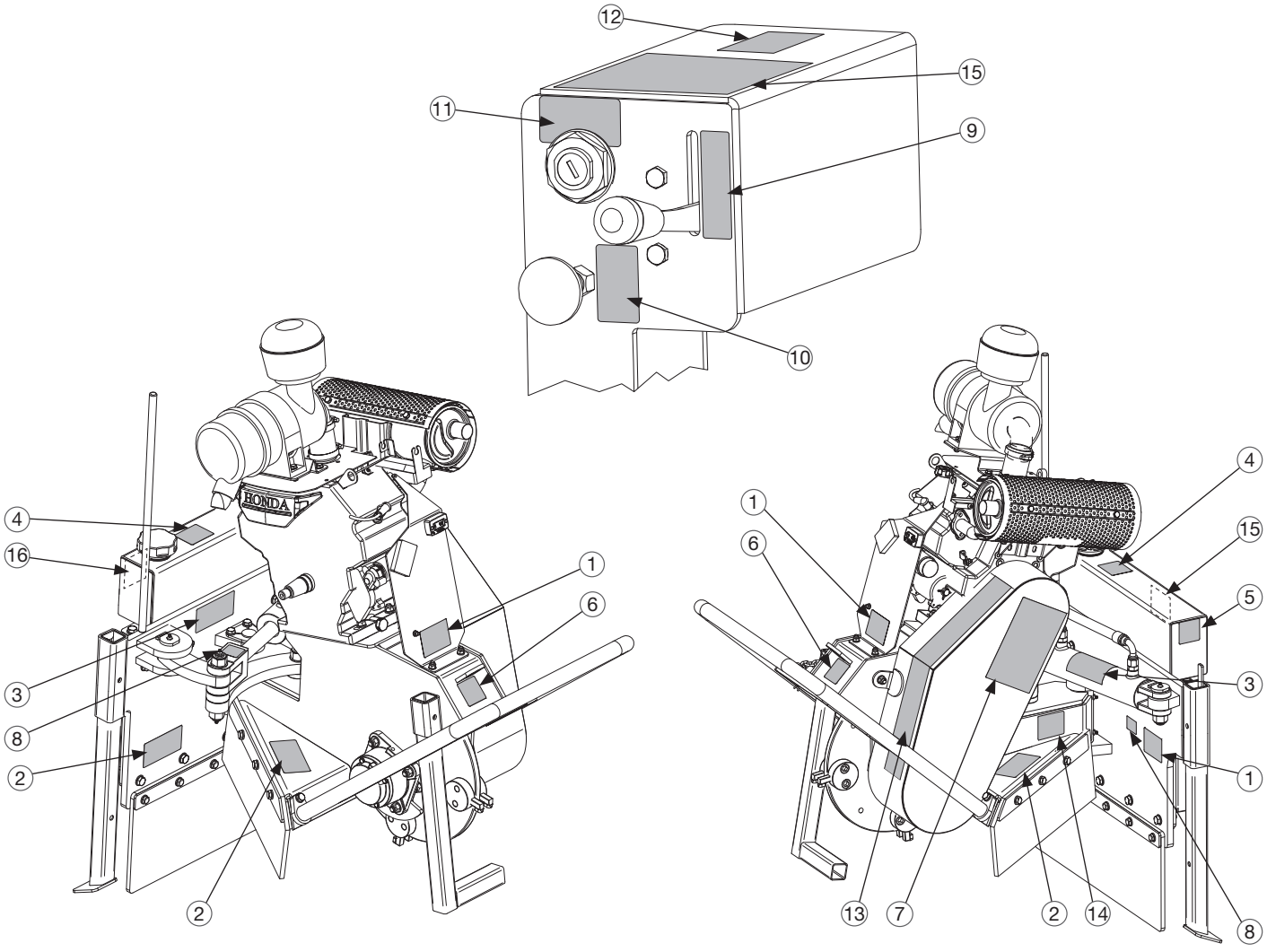


Terminator Stump Grinder Parts List

No	Part Number	Qty	Description
1	KA-001304	1	MAIN FRAME WELDMENT STUMP
2	KA-001298	1	STUMP GRINDER THROTTLE MOUNT
3	KA-001328	1	STUMP GRINDER WHEEL
4	KA-001340	1	STUMP GRINDER MAIN SHAFT
5	KA-001317	1	STUMP GRINDER LEFT HAND HOUSING
6	KA-001316	1	STUMP GRINDER RIGHT HAND HOUSING
8	KA-001313	1	STUMP GRINDER MAIN PIVOT
9	KA-001339	1	STUMP GRINDER LINKAGE CONNECTOR
10	KA-001368	1	STUMP GRINDER CLUTCH RETAINER
11	CY-000218	1	STUMP GRINDER SLEW CYLINDER
12	DL-000754	2	COMMON LOADER PARTS - PIN D
13	MO-000665	1	ENGINE - PETROL - GX690 -
14	L173110	1	CLUTCH 24HP 3B S-G
15	L173410	1	BELT TENSIONER ROLLER
16	L173612	1	SPB180 3 B1S PULLEY
17	L171100	4	STUMP GRINDER POCKET THREADED
18	L171000	4	STUMP GRINDER POCKET COUNTERSUNK
19	L171400	8	STUMP GRINDER TOOTH STRAIGHT
20	L171611	2	STUMP GRINDER REAR RUBBER
21	KA-001307	1	BANANA ASSEMBLY 251 CENTERS
22	KA-001306	1	BANANA ASSEMBLY 144 CENTERS
23	KA-001311	1	STUMP GRINDER LEG ASSEMBLY LEFT HAND
24	KA-001310	1	STUMP GRINDER LEG ASSEMBLY RIGHT HAND

Terminator Stump Grinder Decal List

ITEM	QTY	SIZE (WxH) [mm]	PART NUMBER	DESCRIPTION
1	2	85x60	DE-002076	ISO - DANGER, SAFE DISTANCE
2	3	120x60	DE-000645	ISO - BOOT/KEEP FEET OFF
3	2	120x60	DE-000646	ISO - CRUSH/KEEP HANDS OFF
4	1	55x70	DE-000929	ISO - FLAMMABLE LIQUID, REGULAR UNLEADED
5	1	55x55	DE-000945	ISO - FUEL LEVEL
6	1	55x55	DE-000959	ISO - LIFTING HOOK
7	1	134x208	DE-000442	STUMP GRINDER ISO MULTI SAFETY SIGN
8	2	40x40	DE-000953	ISO GREASE NIPPLE
9	1	17x55	DE-000958	ISO - THROTTLE CONTROL
10	1	20x40	DE-000963	ISO - CHOKE CONTROL
11	1	49x29	DE-000943	ISO - IGNITION
12	1	45x45	DE-000850	MY.DIGGA.COM
13	1	60x500	DE-000789	DANGER
14	1	65x43	DE-000631	DIGGA SERIAL TAG
15	2	87x68	DE-000926	STUMP GRINDER - SAFE OPERATING RANGE
16	1	115x88	DE-002218	SOLD & SERVICED BY DIGGA



NOTE
Damaged or unreadable safety decals should be replaced. Contact Digga for replacement decals.

Understand Your Warranty

Terms and Conditions

Digga Terminator

12 months/or 1000 hours - Warranty for all equipment components except the engine.

Honda Engine

36 months - Consumer / Commercial Warranty.

Purchaser's Responsibilities

The purchaser must ensure maintenance and minor adjustments, as detailed in the Operator's Manual and engine manufacturer's manual, are carried out as per the schedule. If there is a discrepancy between the two, the Service Chart in the Operator's Manual will take precedence.

The purchaser must notify Digga or an authorized Digga service representative of the need for warranty repair.

The purchaser must organize and is financially responsible for the transport of the product to and from the place of warranty repair.

Product Registration

The Purchaser must fill out and return the warranty registration card within 30 days of purchase in order to validate the warranty.

Repairs

Call the Digga dealer in your region for all warranty and repair enquires. For details, phone:

AUSTRALIA & INTERNATIONAL:
Phone: +61 (0)7 3441 9222

NORTH AMERICA:
Phone: +1 833 305 2642

Exclusions (No Warranty)

Normal maintenance, servicing, and replacement items such as spark plugs, oil, oil filters, air filter, belts,cutting wheels and teeth, cutting blades and edges, flap guards, cables, etc. are not covered by this warranty.

Any equipment which has been altered, misused, incorrectly assembled, improperly adjusted, neglected, or damaged by accident is not covered by this warranty.

Servicing must be completed by a competent organisation in order to maintain the warranty.

Any attachment not approved by Digga or any parts that are not genuine Digga service parts are not covered by this warranty.

Engines and engine accessories are covered under the terms of the warranty made by the engine manufacturer, and are not covered by this warranty.

NOTE
The standard engine manufacturer's warranty is for three (3) years and is subject to their terms and conditions.

Digga may from time to time change the design of its products. Nothing contained in this warranty shall be construed as obligating Digga to incorporate such changes into previously manufactured products nor shall such changes be construed as an admission that previous designs were defective.

Limitation of Remedy and Damages

The liability of Digga under this express warranty, and under any implied warranty that may exist, is limited to repair or replacement of any defective part. In no event shall Digga be liable for incidental, special, or consequential damages (including lost profits).

Terms and Conditions (continued)

Disclaimer of Further Warranty

Digga makes no warranty other than what is expressly made in this warranty. If the law provides that an implied warranty of merchantability, or an implied warranty of fitness for a particular purpose, applies to Digga, any such implied warranty is limited to the duration of this express warranty.

Spare Parts Warranty

Terms and Conditions

Digga will warrant any part found to be defective within the conditions of normal usage. Breakage or damage to any part caused by abuse or misuse will not be considered. Hydraulic hoses will not be covered by warranty if any signs of external damage are apparent.

Consumables including belts, tyres, tubes, and tracks are not covered by warranty.

The warranty period is for six (6) months from the delivery date and applies to only genuine spare parts.

This warranty does not cover any labour, freight, incidental, or consequential charges.

The warranty claim will not be recognized without the return of the faulty part to Digga and must include the item serial number.

A warranty claim for any engine part is covered by the engine manufactures standard warranty contained in the engine manual handbook.

It is the owner's responsibility to ensure that the correct engine oil levels are maintained and that maintenance is carried out as required in the manuals. Claims for damage as a result of insufficient oil levels will not be recognized.

Contact Information

For further information on spare parts, please contact one of the Digga sales offices shown below, or contact your local authorised Digga dealer.

DIGGA INTERNATIONAL SALES OFFICES

ASIA PACIFIC

DIGGA HEAD OFFICE - BRISBANE
4 Octal St, Yatala QLD 4207
Phone: +61 7 3807 3330
Email: info@digga.com

DIGGA NEW SOUTH WALES
19 Mckay Close,
Wetherill Park, NSW 2164
Phone: 1300 2 DIGGA
Email: nsw@digga.com

DIGGA VICTORIA
17-21 Babbage Dr,
Dandenong, VIC 3175
Phone: 1300 2 DIGGA
Email: vic@digga.com

Web: www.digga.com

NORTH AMERICA

DIGGA NORTH AMERICA
2325 Industrial Parkway SW
Dyersville IA 52040
Phone: + 1 563 875 7915
Email: infous@digga.com

Web: www.diggausa.com

EUROPE

DIGGA EUROPE
Unit 6, Smitham Bridge Road
Hungerford Trading Estate,
Hungerford, Berkshire RG17 0QU
England, United Kingdom
Phone: +44 (0) 1488 688 550
Email: infouk@digga.com

Web: www.diggaeurope.com

Index


DIGGA