PADDOCK EXCAVATOR AUGER

DRIVE ATTACHMENT

P/N – SPEXHAR

User and Maintenance Manual

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INTRODUCTION

Paddock equipment is built to make light work of the toughest jobs. Quality components and smart engineering design delivers high performance attachments. Paddock offer a full range of attachments for trenching, auguring, rock breaking and bulk materials transfer.

Congratulations and thank you for choosing the Paddock Excavator Auger Driver. This manual is an important part of your equipment. It provides critical safety information and operating instructions to help you use and maintain your excavator safely and correctly.

NOTE: This manual is in addition to the Excavator manual. The Excavator manual must be adhered too at all times.

The auger drive is attached to the excavator to dig cylindrical holes. The auger drive connects to the excavator hydraulics and allows augers of varying sizes to be powered into the ground.

- Strong steel construction provides a long service life
- Options to fit Series 10/17 Paddock Excavators
- Quick hitch connection
- 1yr warranty from an established Australian business

NOTE: Augers are ordered separately and not included with the driver.
Auguring holes is a common task and the Paddock Auger Drive attachment can be used for fencing your property and erecting gates. Augers have many applications and can even be used to dig holes for tree planting.

Don't Compromise Quality
When working with machinery, equipment quality should not be compromised, cheap copy machines breakdown costing you money. Paddock only use the highest quality materials making them a machine for life.

QUICK COUPLING AND AUXILIARY HYDRAULICS STANDARD

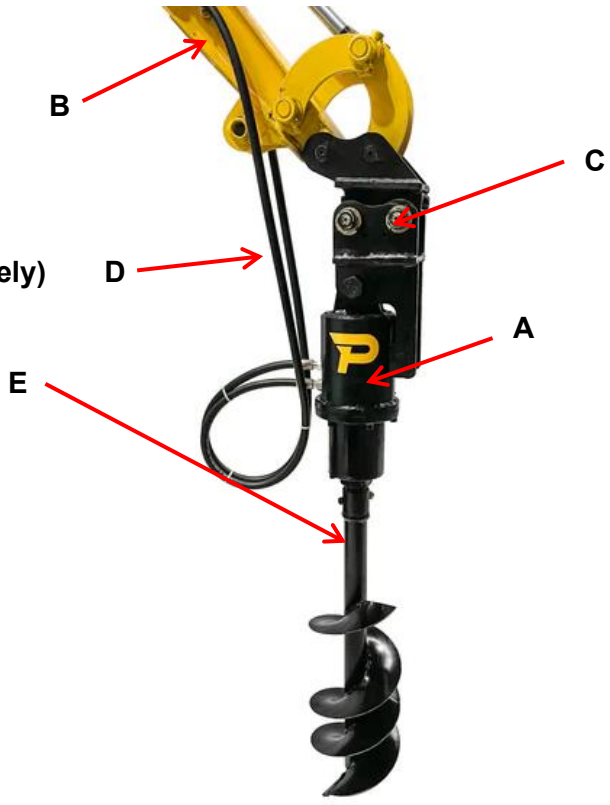
The excavators by Paddock™ feature and include as standard a simple and reliable quick hitch design. This design makes it fast for the operator to loosen the hitch and switch between attachments without having to hammer out pins. The design means switching between a ripper and a larger batter bucket is time efficient and realistic during normal operation.

SPECIFICATIONS

SPEXHAR	
Suites	Series 10 & 17 Excavators
Maximum Auger Diameter for Series 10S	300mm
Maximum Auger Diameter for Series 17S	450mm
Output Shaft	30mm
Augers	Sold Separately
Connection	Quick hitch 2 x hydraulic lines to connect
Warranty	1yr

EXCAVATOR AUGER DRIVE

A. **Drive Unit**
B. **Boom**
C. **Quick Hitch**
D. **Hydraulic Lines**
E. **Auger (sold separately)**



PLEASE NOTE:

- Read this manual thoroughly before operating the machine equipment.
- Please understand and regular review of this manual to help ensure safe, efficient, and long-lasting use of your equipment.

SAFETY OPERATION

SAFETY IS THE RESPONSIBILITY OF THE OPERATOR

⚠ **WARNING -** Before operating or maintaining the excavator, it is essential to follow all safety operation instructions. Read and understand the operator's manual, all safety labels, and decals on the machine.

All repairs, adjustments, maintenance, and operational checks must be carried out strictly in accordance with the manual.
Failure to comply may result in serious injury or death.

TRAINING RECOMMENDATION

This manual does **not** replace hands-on training. Operators are strongly encouraged to undergo third-party machinery training to ensure safe and competent operation.

SAFETY GUIDELINES

Most accidents can be prevented by following these basic rules:

- Read and understand all safety messages in this manual and on the excavator.
- Familiarize yourself with the controls, fuelling, and maintenance procedures.
- Comply with all operational and maintenance rules at all times.
- Never refuel a hot machine.

SAFETY SYMBOLS

- **CAUTION** – Take precautions to avoid minor or moderate injury.
- **WARNING** – Indicates a hazardous situation that may result in serious injury or death.
- **DANGER** – Indicates an immediate hazard that will result in death or serious injury if not avoided.
- **NOTE** – Highlights instructions to prevent machine damage or ensure best practice.

All symbols appear in the manual and on the excavator's safety labels.

BEFORE FIRST USE

Each excavator is fully tested and inspected before delivery. During the first 100 hours, operate with extra care to ensure a proper break-in period.

INITIAL OPERATION GUIDELINES:

- Warm up the machine for at least 5 minutes.
- Avoid full-speed operation early on.
- Minimize rapid acceleration, hard stops, or sharp turning.
- Regularly inspect filter elements based on work environment.
- Conduct a Job Safety Analysis (JSA) before starting work.
- Monitor the hour meter for scheduled maintenance intervals.

SAFETY LABELS AND DECALS

Excavators are equipped with clearly visible warning decals. These must be understood and never removed or defaced.

EXAMPLES OF DECALS:

- **DANGER**: Imminent hazard – will cause injury or death if ignored.
- **WARNING:** Potential hazard – may cause serious injury or death.
- **NOTE:** Advisory – follow instructions to avoid equipment damage.

ALWAYS REMEMBER

- All warnings exist for your safety.
- Never ignore a label, alarm, or safety notice.
- Stay alert. Work safe.

SAFETY – GENERAL PRECAUTIONS

You are responsible for adhering to all relevant safety regulations and legal requirements set by governing authorities. Always operate, inspect, and maintain machinery in accordance with the manufacturer's guidelines.

Many accidents are caused by a failure to follow basic safety procedures. Most incidents can be prevented by identifying potential hazards ahead of time.

BEFORE OPERATING THE MACHINE:

- Carefully read and understand all safety information.
- Ensure you are fully trained in the correct operation, inspection, and maintenance of the equipment.
- Do not operate the machine unless you are confident in doing so safely and correctly.

COMPLIANCE WITH ALL SAFETY REGULATIONS

Only trained and qualified personnel are permitted to operate, inspect, or maintain this machine.

During all machine operations, inspections, and maintenance activities, all applicable rules, regulations, precautions, and safety measures must be fully understood and strictly followed.

Do not operate, inspect, or maintain the machine under the influence of:

- Alcohol or drugs
- Extreme fatigue
- Lack of sufficient sleep

HANDLING ABNORMAL CONDITIONS

If any abnormalities are detected during operation or maintenance — such as:

- Unusual noise or vibration
- Strange odours
- Oil leakage
- Error alarms

Immediately stop operation and contact the appropriate sales or service agent. Do not resume operation until the issue has been properly identified and resolved.

WEAR SUITABLE CLOTHING AND PROTECTIVE EQUIPMENT

To ensure personal safety and prevent accidents in the workplace, follow these clothing and PPE (Personal Protective Equipment) guidelines:

AVOID UNSAFE CLOTHING

- Do not wear loose clothing or accessories that could get caught in moving parts or control levers.
- Avoid clothing stained with oil or fuel, as it is highly flammable.

WEAR APPROPRIATE PROTECTIVE GEAR

- Based on your work environment and tasks, the following PPE should be worn:
- Safety shoes – to protect feet from falling objects and sharp items.
- Safety helmet – to prevent head injuries.
- Safety glasses or goggles – to protect eyes from dust, debris, or chemical splashes.
- Filter masks or respirators – especially when working in dusty or fume-filled environments.
- Thick gloves – for handling sharp, hot, or hazardous materials.
- Ear protectors or earplugs – when working in noisy areas to prevent hearing damage.

TASK-SPECIFIC PROTECTION

- When using tools like grinders, jackhammers, or compressed air, always wear:
- Safety spectacles to guard against flying particles.
- Filter masks to protect from dust and fumes.

NOISE PROTECTION

- Use hearing protection when operating loud machinery.
- Prolonged exposure to high noise levels can cause permanent hearing loss.

BE CAREFUL TO AVOID CRUSHING INJURIES

Serious injury or death can occur if body parts are caught between moving components. Always stay alert and follow these precautions:

DO NOT PLACE HANDS, FEET, OR BODY PARTS:

- Between the machine body and the undercarriage or tracks
- Between the machine frame and working attachments
- Between the hydraulic cylinders and surrounding parts
- Between any moving or pivoting components

WHY IT'S DANGEROUS:

- As the machine operates, gaps can suddenly close due to movement or hydraulic action.
- What seems like a safe space can quickly become a crushing point.

STAY SAFE BY:

- Staying clear of pinch points and moving parts at all times.
- Ensuring no one is in the danger zone before operating any machinery.
- Using lockout/tagout procedures when performing maintenance.

USE OF OPTIONAL PRODUCTS

- Before installing any optional products or attachments, consult our company to ensure compatibility and safety.

- Depending on the type or combination of attachments, some may come into contact with parts of the cab or other machine components.
- Always confirm that attachments are secure and free of interference with other parts before use.
- Do not use any accessories or attachments that have not been approved by our company.
    - Using unauthorized products may compromise safety, reduce operating efficiency, or shorten the machine's service life.
- Our company accepts no responsibility for injuries, accidents, or machine damage resulting from the use of non-approved accessories.

DO NOT MODIFY THE ATTACHMENT

- Unauthorized modifications to the machine can result in serious injury or death.
- Never attempt to modify, alter, or transform any part of the machine without formal approval from the manufacturer.
- Unauthorized modifications may also void the warranty and compromise compliance

PRECAUTIONS BEFORE OPERATION

UNDERSTAND THE WORK AREA

Before beginning any operation, it is essential to assess the work area for safety. This includes:

- Inspecting terrain and ground conditions to identify any instability or risk.
- For indoor operations, review the building structure and take necessary precautions.
- Identify and avoid hazards such as:
    - Gutters
    - Underground pipelines
    - Trees or stumps
    - Cliffs or steep slopes
    - Overhead power lines
    - Landslide-prone or unstable areas

COORDINATE WITH SITE ADMINISTRATORS

- Check the location of buried utilities such as gas lines, water pipes, and power cables.
- Consult with the site administrator when needed and establish any required safety measures prior to beginning work.

ROADSIDE OPERATION

- Prioritize the safety of pedestrians and vehicles during road work.
- Use signage, signals, or designated flaggers to warn and direct traffic.
- Prevent access by unauthorized personnel to the operation area with proper barricades and signage.

OPERATION IN OR NEAR WATER

- When operating in shallow water or near water bodies, check:
    - Water depth
    - Ground firmness
    - Water flow speed

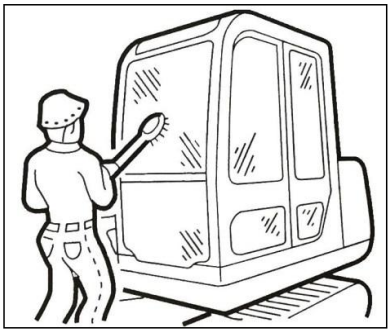
Ensure the area is stable and safe before proceeding.

BRIDGE AND STRUCTURE SAFETY

- Before crossing a bridge or elevated structure, confirm the load capacity is suitable for the machine.
- If necessary, reinforce the bridge or structure to ensure safe passage

KEEP THE MACHINE CLEAN AT ALL TIMES

Maintaining cleanliness is essential for safe and efficient operation. Follow these precautions to reduce the risk of accidents or damage:



PREVENT SLIPS AND FALLS

- Immediately wipe away any lubricating oil, grease, mud, snow, or ice from walkways, steps, and handholds to prevent slipping hazards.

REMOVE UNNECESSARY ITEMS

- Clear out all loose tools, parts, and unnecessary devices from inside and around the machine.
- Keep the operator's seat and foot area clean and free of clutter to ensure safe and unobstructed operation.

PREVENT FIRE HAZARDS

- Clean off dust, oil, and grease from engine components, wiring, and exhaust areas.
- Regular cleaning reduces the risk of overheating or fire caused by buildup of flammable materials.

DAILY INSPECTION AND MAINTENANCE

- Always perform the required daily inspections before starting the machine.
- Identify and repair any issues immediately. Failure to do so may lead to accidents or equipment failure.
- If the machine becomes inoperable or the engine fails:
    - Shut down the machine following the proper shutdown procedure.
    - Ensure the machine is safely parked and secured until repairs are completed.

SAFETY IN THE DRIVER'S CAB

- Before entering the cab, clean dirt, grease, or mud from your shoes.
    - Contaminants on footwear can cause slipping on pedals, leading to accidents.
- Do not place tools, parts, or personal items around the operator's seat.
- Avoid bringing plastic bottles or attaching suction cups inside the cab.
    - These can act as magnifying lenses, creating a fire hazard if exposed to sunlight.

SAFE ENTRY AND EXIT PROCEDURES

- Always use the three-point contact method (two hands and one foot, or two feet and one hand) when mounting or dismounting the machine.
- Do not jump on or off the machine and never attempt to board or exit a moving machine.
- When opening the cab door:
    - First lock it securely in the open position.
    - Check and confirm the door is stable and cannot swing shut.
- Use only the designated steps and handrails to climb on or off the machine.
    - Do not use control levers or rods for support.

PRE-START SAFETY CHECKS

To ensure the safety of all personnel, follow these steps before starting the machine:

1. CLEAR THE AREA

- Ensure all unauthorized personnel have left the work zone before starting the machine.
- Walk around the machine and visually inspect the surroundings.
- Warn nearby maintenance staff or pedestrians to move away from the machine.

Do not start the machine until the area is confirmed clear.

2. INSPECT FOR WARNING SIGNS

- Check the cab, controls, and ignition switch for any warning tags or signs such as:
    - “Caution”
    - “Do Not Operate”
- If any warning sign is present:
    - Do not start the engine.
    - Do not touch any control levers or joysticks.
    - Report to a supervisor or maintenance personnel.

3. SIGNAL BEFORE STARTING

- Sound the horn before starting the machine to alert anyone nearby.
- Only proceed to start the machine once it is safe and the area is fully clear.

COLD WEATHER SAFETY PRECAUTIONS

When operating in cold climates, take extra precautions:

- Be alert for frozen or slippery surfaces on the ground, pedals, and handholds.
- Do not touch metal parts with bare hands in extremely cold temperatures — skin can freeze to the metal, causing serious injury.
- Never use ether or starting fluid to start the engine.

USE OF STARTING FLUID CAN LEAD TO EXPLOSION, SEVERE INJURY, OR DEATH.

- Ensure adequate preheating of the engine and hydraulic system before operation.
    - Operating without proper preheat may result in machine malfunction or accident.

OPERATING INSTRUCTIONS

1. STARTING THE ENGINE

- Ensure all controls are in the neutral position.
- If starting in cold conditions, use the preheat function as necessary.
- Move the throttle to the half-open position.
- Turn the ignition switch to the START position and release once the engine starts.

2. EMERGENCY SHUTDOWN

- Pull the stop wire or cable to shut down the engine.

3. GENERAL DRIVING OPERATION

- Pull the lift arm control to raise the mount plate and any attached equipment off the ground.
- Move both wheel drive controls forward or reverse to begin movement.
- Adjust the throttle as needed for appropriate speed and power.

4. SLOPE OPERATION GUIDELINES

NOTE: Keep the attachment or load low to the ground when operating on a slope. Always drive slowly and cautiously.

- Operate up and down slopes with the heavy end of the unit uphill.

NOTE: The heavy end depends on load and attachment. An empty bucket makes the rear heavier; a full bucket or most attachments make the front heavier.

- Avoid starting, stopping, or turning on slopes. If turning is necessary, keep the heavy end uphill.
- Do not park on slopes without first:
    - Lowering the attachment to the ground
    - Returning all controls to neutral
    - Turning the ignition switch to STOP
    - Applying chock blocks to the wheels or tracks

⚠**WARNING:** The maximum slope angle is 12°. Exceeding this may cause fuel leakage.

5. SHUTDOWN PROCEDURE

- Lower the lift arms to the ground.
- Move all controls to the neutral position.
- Let the engine idle at low speed for three minutes to cool down.
- Turn the ignition switch to STOP.
- Remove the key from the ignition.

⚠**CAUTION: Do not park on a slope unless chock blocks are used. Always return all controls to neutral when the machine is stationary.**

OPERATION GUIDE

Read this manual before using the excavator. **Take care within the first 100 hours.**

FOR NEW EXCAVATORS:

Excavators have a 100-hour run-in period designed to enhance their performance and extend service life. During this period, new excavator s should be operated according to the following three steps.

Hours	Load
Within 10 hours	About 60%
Within 100 hours	About 80%
After 100 hours	100%

DAILY CHECKS:

- Engine cooling system for leaks or damage
- Tyres and tyre pressure / Track Tension
- Any loose or damaged parts
- Safety decals & labelling
- Control station
- Check level of engine oil, hydraulic oil, fuel and look for any leaks.
- Check the lubricating oil regularly and replenish.
- Check gauges and lights when running.
- Check if excavator is working well when running.
- Add grease to lubricating points every day.
- Check for bolts which may have vibrated loose.

WHEN THE ATTACHMENT IS FOUND TO BE ABNORMAL

If any abnormalities are detected during the operation, inspection, or maintenance of the attachment — such as unusual noise, vibration, odours, oil leakage, or error alarms — stop using the attachment immediately. Notify the sales or service agent without delay and take appropriate corrective measures.

Do not resume operation until the issue has been fully resolved.

SAFETY DRIVE

⚠ **CAUTION:** Match your driving speed to the condition

The excavator s centre balance point changes when lifting and lowering the arms and

attachments, take care especially if operating on slopes. Keep the excavator on level ground when operating and turning. Lower lift arms entirely when moving and lift bucket to proper height, to avoid obstacles.

DANGER - TAKE CARE TO LOWER OPERATING SPEED IF ARMS ARE RAISED. AVOID SUDDEN CHANGES IN DIRECTION AS THIS CAN CAUSE A ROLL OVER.

⚠ **WARNING:** This product manual can't teach you how to safely operate a complex excavator. Users should consider undergoing training by a 3rd party provider who specialises in small machinery prior to operation.

Avoid overloading the excavator as this has potential to bend the excavator s hitch plate. Examples of ways to overload the excavator are as follows:

1. Driving a bucket into heavy wet soil and lifting the arms vertically. In this work method the bucket is lifting greater than it's intended capacity. A good work method sees the bucket tilted backwards and the excavator in reverse as the arms are lifted, ensuring a low risk of overload.
2. Augering holes in hard dirt or sticky clay, avoid letting the auger bog down and simply lifting the excavator arms vertically, this has potential to overload the excavator and bend the hitch plate. Allow the auger to clear itself if the ground is dense and boggy. Ensure the auger is retracted vertically which involves tilting the hitch plate as the auger clears the hole.
3. Take extreme care when operating on slopes and in wet conditions. Again, this manual can't teach safe operation and users should seek specialised 3rd party excavator training prior to operation

CONNECTING ATTACHMENTS

ONLY USE APPROVED PARTS:

- Always use manufacturer-approved parts and accessories to ensure the machine operates safely and efficiently.
- Non-approved parts may compromise the integrity of the machine, leading to potential malfunctions, safety hazards, or voiding of warranties.

RISKS OF USING NON-APPROVED PARTS:

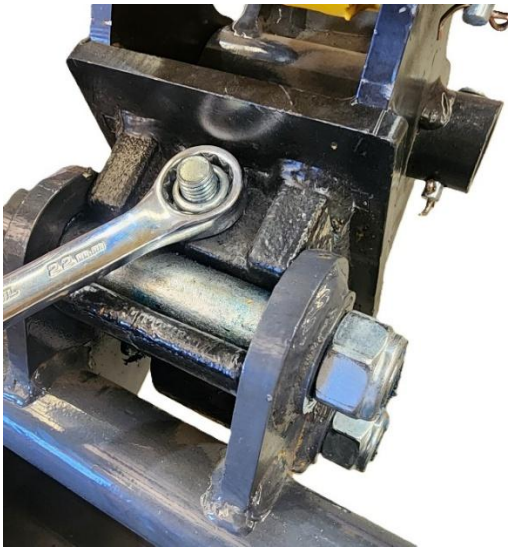
- Reduced machine performance and efficiency.
- Increased wear and tear, potentially shortening the machine's lifespan.
- Increased risk of accidents or injuries.

HOW TO USE QUICK HITCH

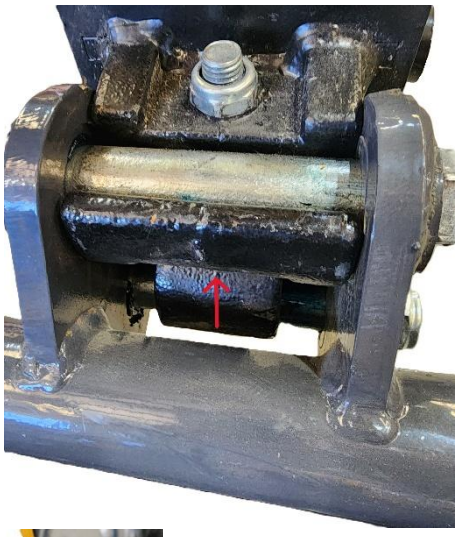
1. Raise the arm off the ground to a workable height.

2. Tilt the bucket to ensure it doesn’t fall once the mounting is loose.

3. Using the 22mm spanner loosen the nyloc nut on the top of the quick hitch.



4. Loosen the head of the bolt on the bottom of the quick hitch. Doing this will raise the bottom jaw, once the jaw has moved enough off of the bottom bolt on the bucket you should be able to lift the bucket and still have it pivoting in the top jaw.



5. Lower the bucket onto the ground and reverse the steps to install a new bucket.

CONNECTING HYDRAULIC HOSES TO THE EXCAVATOR

There are two different ways to connect the hydraulic hoses. Follow the steps below for your excavator:

PREPARATION

1. Park the excavator on level ground.
2. Lower the arm to a height that is easily accessible for mounting.
3. Shut off the engine and allow the engine and hydraulic oil to cool to ambient temperature.

VALVE SETUP

1. Close the hydraulic valves by turning them clockwise 90°. The valve debossing should now be perpendicular to the arm.
    a. If you do not have the valve type, please ignore this step.
2. Remove the screw nut from the valve to expose the male thread:
    - Hold the male thread still while removing the screw nut.
    - Cover the exposed male thread with plastic wrap (not included).
    - Do not remove the male thread itself.

    NOTE: If you accidentally remove only the outer shell of the screw nut, remove the core as well to fully expose the male thread.

    Keep the screw nuts in a clean, in protected area. They may be needed later when detaching the auger and resealing the valves.

PREPARE AUGER PORTS

1. Remove the two nuts sealing the hydraulic ports on the auger. Cover the exposed ports with plastic wrap.

NOTE: If the hose ends are sealed with plastic plugs, remove them.

If there are no plugs, inspect the ports and clean them using pressurized air if needed.

Always cover all exposed ends with plastic wrap.

⚠ Contamination inside the ports may damage your excavator's main hydraulic pump.

CONNECTING THE HOSES

- Connect the hoses to either side of the boom

FINAL STEPS

1. Open the hydraulic valves by turning them counterclockwise 90° so that the debossing is now parallel to the arm.
2. Test the excavator:
   - Ensure the hose length allows for the full range of arm movement
   - Avoid over-extending the hydraulic cylinders
   - Check all hoses and fittings for leaks

ASSEMBLY AND PARTS DIAGRAM

IMPORTANT: Before making any adjustments, turn off the equipment.

This section is designed to familiarise you with the names and locations of various components of the equipment, which will assist in reading this manual or ordering parts.

MAINTENANCE

⚠ **CAUTION:** If you leave the key in the ignition switch, the engine may accidentally start, potentially causing serious injury to yourself or others nearby.
Before performing any maintenance, turn off the engine, remove the key from the ignition, and disconnect both the hydraulic and electrical connections between the attachment and the engine.

WEEKLY CHECKS

Perform the following once per week:

- Inspect the overall condition of the equipment and mounting frame for wear, cracks, or loose fittings.
- Check the drive sprocket for wear.
- Grease hitch and pivot pins
- Inspect all hydraulic hoses for signs of wear, cracks, or external damage.

FIRST 100 HOURS OR 3-6 MONTHS

To maximize lifespan and maintain warranty, gear oil must be:

- Drained and replaced with 600XP (or approved equivalent).

YEARLY OR EVERY 500 HOURS

Gear oil must be:

- Drained and replaced with 600XP (or equivalent)
- Every 12 months or 500 operating hours, whichever occurs first

STORAGE

- Before long-term storage, clean the attachment to remove dirt.
- Check the condition of the Auger. Replace or repair any worn or damaged parts.
- Lubricate the required components.
- Check and tighten all bolts, nuts, and screws. Repair or replace any damaged or worn parts.
- Ensure all hydraulic couplings are connected to prevent contamination of the hydraulic system.
- Spray anti-rust oil on scratched or exposed metal surfaces and coat the wheel with rust preventive oil.
- Store the equipment in a clean, dry garage or storage area.
- Cover the equipment to protect it and keep it clean.

WARRANTY INFORMATION

The below information is an addition to information covered under the standard Terms and Conditions of sale at your place of purchase.

ACCESSORIES AND ATTACHMENTS – 12 months or 1,000hrs (whichever comes first) from date of purchase.

HOSES – Hydraulic hoses are warranted against manufacturing defects for a period of 1yr or 1,000hrs (whichever comes first) from date of purchase.

EXCLUSIONS - Normal wearing parts and consumables are not covered by warranty. Examples include: oil filters, oil, muffler, belts, chains, cutting teeth, blades, tires, tracks, sprockets. Equipment damaged, misused, not maintained, adjusted incorrectly, effected by fire, rain, accident or flood will not be covered by warranty.

SUPPORT INFORMATION

SALES ENQUIRIES:

P: 1300 246 406

E: info@paddockmachinery.com

SUPPORT REQUESTS

Via the website support request - www.paddockmachinery.com

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