



# FIELDQUIP

family business, Australian owned ...smarter gear ...smarter care



## ESTATE FINISHING MOWER



**OWNER/OPERATOR MANUAL**  
**SPARE PARTS LIST**

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# Fieldquip Finishing Mower

## Operator Instructions and Parts List

Dear Customer,

We take this opportunity of welcoming you as the owner of a Fieldquip Finishing Mower. We want your finishing mower to be the most efficient and productive piece of equipment giving you years of satisfaction. This manual will help you to achieve this objective.

The safe operation and maintenance of your Finishing Mower is very important to prevent any personal injury and / or equipment damage. Read and fully understand the following instructions before operating or carrying out maintenance.

This instruction manual must be read in conjunction with the specific Tractor Manual, Hazard Risk and Farm Machinery Safe Work Practices, prior to the equipment being placed in service.

Fieldquip warrants new products sold but it to be free from defects in material and workmanship for a period of twelve months for farmers or lifestyle applications after delivery to the initial user. This warranty is for the replacement or repair of any part found to be defective during the warranty period. This warranty excludes any transport freight costs incurred by Fieldquip in giving effect to the warranty and specifically excludes all normal maintenance costs. This warranty also excludes loss of income incurred by the owner due to down time. Replacement parts provided under the terms of this warranty are covered for the remainder of the warranty period applicable to the product in which they are installed as if such parts were original components of that product.

It is the dealer's responsibility to deliver this unit to you fully assembled and to assist you in the installation. Before use carefully check the entire machine for transit damage and report any problems immediately.

Fieldquip reserves the right to make changes or improvements in design and construction at any time, without incurring the obligation to make these changes on previously manufactured units.

Many Thanks  
From the Manager  
Fieldquip  
199 Bridge Street  
Oakey QLD 4401

Ph: 07) 46911500

## DESCRIPTION

The Estate Rang of Finishing Mowers has been specifically designed to suit those with an eye for a manicured finish. The estate range is at home on large country lawns, at golf clubs, camping grounds, small schools, lifestyle blocks.

Record the details of your slasher here for future reference.

Serial Number: \_\_\_\_\_

Model: \_\_\_\_\_

Date of Delivery: \_\_\_\_\_

Name of Dealer: \_\_\_\_\_

Dealer Address: \_\_\_\_\_

Dealer Contact No: \_\_\_\_\_

Installed by: \_\_\_\_\_

The information, illustrations and technical data were considered to be correct at the time of preparation.  
No Liability can be accepted for any inaccuracies or omissions in this publication, although due care has been taken to make it as complete and accurate as possible.

## THE OWNERS OBLIGATION

Read this manual before operating your Fieldquip implement. The information presented will prepare you to do a much better and safer job. Keep this manual handy as a reference. Ensure all operators read this manual carefully and become acquainted with all the adjustments and operating procedures before attempting to operate. Keep a record that the operator has read and understands the correct operating procedures as outline in this manual.

The implement you have purchased has been carefully engineered and manufactured to provide a robust and dependable implement. Like all mechanical products, it will require routine cleaning, upkeep and maintenance. Lubricate the implement as specified. Observe all safety information in this manual and safety decals on the implement.

## THE DEALERS OBLIGATION

Assembly and proper installation of this product is the responsibility of the Fieldquip dealer. The dealer must complete all items on the Warranty Registration & Installation Form included in this manual before releasing the implement to the new owner.

Both dealer and customer must sign the registration, which certifies that all Dealer Check list items have been completed. The dealer must return a copy of the Warranty Registration & Installation Form to Fieldquip. Reminders about Warranty Registration that have not been returned will be sent out to demonstrate that reasonable attempts have been made to ensure dealers complete risk assessment and pre – delivery obligations.



### Your Safety is involved be careful

**Safety is a primary concern in the design and manufacture of Fieldquip products. This implement like all mechanical products can cause serious injury if misused. Please ensure you read, understand and follow this manual for your own safety and that of others.**

## PURPOSE OF THIS MANUAL

The purpose of this manual is to assist you in operating and maintaining your Fieldquip implement. Read it carefully. It provides information and instructions that will help you achieve years of dependable performance. These instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to the unknown and varying operation conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.

The data used in this manual were current at the time of printing, but in an effort to bring you better products we are always implementing continuous improvements that may vary your implement slightly in detail. We reserve the right to redesign and change the machine as may be necessary without notice.

## GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your Fieldquip Estate Finishing Mower. Read it carefully. It provides information and instructions that will help you achieve years of dependable performance. These instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to the unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation. The illustrations and data used in this manual were current at the time of printing, but in an effort to bring you better products we are always implementing continuous improvements that may vary your implement slightly in detail. We reserve the right to redesign and change the machine as may be necessary without notice.

## SPECIFICATIONS

|                       | 48"        | 60"        | 72"        |
|-----------------------|------------|------------|------------|
| Cutting Width         | 1230       | 1476       | 1815       |
| Cutting Height        | 25-120mm   | 25-120mm   | 25-120mm   |
| Width (Overall)       | 1290       | 1530       | 1870       |
| Length (Overall)      | 1240       | 1360       | 1465       |
| Weight Kgs (Approx)   | 195        | 214        | 250        |
| HP Requirement        | 15-40      | 17-40      | 23-40      |
| Cutterft/min          | 15474      | 15770      | 16821      |
| Number of Cutterheads | 3          | 3          | 3          |
| Number of Blades      | 3          | 3          | 3          |
| Blade Setup           | Cutter-bar | Cutter-bar | Cutter-bar |
| Number V-Belts        | 2          | 2          | 2          |
| PTO Speed             | 540        | 540        | 540        |
| Body Construction     | 4mm        | 4mm        | 4mm        |
| 3 Point Linkage Cat   | Cat1       | Cat1       | Cat1       |

## DECALS



**Attention Be Careful! Your Safety is Involved**  
Replace Immediately if Damaged

### Decals all Models

**FQS-003** **FIELDQUIP**   
199 Bridge St. Oakey Qld 4401 Ph: 07 4691 1500

**FQS-004** **FIELDQUIP**   
...smarter gear ...smarter care

**FQS-040** **WARNING**  
CHECK GEARBOX OIL  
BEFORE USE

**FQS-023** **CAUTION**  
DO NOT  
EXCEED  
540 RPM

**FQS-038** **CAUTION**  
CHECK OIL AND  
READ OPERATORS  
MANUAL (AVAILABLE  
FROM DEALER)  
BEFORE USE



FQS-024



FQS-036

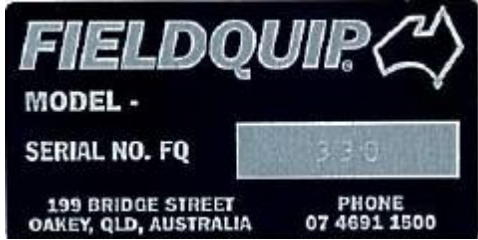


FQS-002

**DANGER! KEEP CLEAR**



FQS-043



Each machine comes with its own serial number plate which will show the model and serial number starting with FQ this number identifies the implement for spare parts enquires and to complete your warranty form.



## **SAFETY RULES & ACCIDENT PREVENTION**

### **ATTENTION BE CAREFUL YOUR SAFETY IS INVOLVED**

Safety is a primary concern in the design and manufacturing of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator. In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Under no circumstances whatever shall the tractor/implement combination be operated whilst carrying a passenger either on or in the tractor or on the implement.

### **Safety instructions are important! Read all attachments and unit manuals; follow all safety rules and safety decal information. Failure to follow instructions can result in serious injury or death.**

- If you do not understand any part of this manual and need assistance the Department of Agriculture, Occupational Health & Safety Offices, any Agricultural School or college and your local dealer should be able to direct you on where you can receive appropriate training. No operator however experienced in farm machinery operation they maybe, should attempt to use any piece of machinery that they have not been competently trained to use.
- Know your controls and how to stop quickly in an emergency.
- Operators must be instructed in and be capable of the safe operation of the equipment and all controls. Do not allow anyone to operate this equipment without proper instruction.
- Do not allow children or untrained persons to operate equipment.
- Check that all hardware is tight and properly installed.
- Always wear relatively tight fitted clothing to avoid entanglement in moving parts. Wear heavy-duty, rough-soled boots and protective equipment for eyes, hair, hands, hearing and head.
- Ensure implement is properly attached, adjusted and in a good condition so that it can be operate safely.
- Tractors MUST be fitted with Roll Over Protection Structure (ROBS) or ROBS Cap. It is also advisable that your tractor be fitted with a seatbelt, where fitted it must be worn at all times. Falling from your tractor can result in death from being run over or crushed. If your tractor is fitted with a folding ROBS, keep it in the "locked up" position at all times.
- Inspect chains, shackles, deflectors and any wear parts for damage. Replace if damaged.
- Remove any debris that has accumulated on the implement, tractor or engine to avoid fire hazard.
- Ensure your tractor has a fire extinguisher and ensure you know how to use the extinguisher in the event of an emergency.
- Ensure all safety decals are installed. Replace if damaged.
- Ensure shields and guards are properly installed and in good working condition. Replace if damaged.
- Do not operate implement unless implement is in good condition. Replace if damaged.
- A minimum 20% of tractor and equipment weight must be on the tractor's front wheels with implement in the transport position. Without this weight, tractor could tip over causing personal injury or death. The weight maybe attained with a loader, front wheel weights, and ballast in the tyres or front tractor weights. When attaining the minimum 20% weight on the front wheels, you must not exceed the ROPS max ballasted mass certificate. Weight the tractor and implement. Do not estimate.
- Watch for hidden hazards on the terrain during operation and avoid any hazards or object that could cause injury or damage. Inspect operating areas and remove any foreign objects that could be thrown, causing injury or damage. It is very important to always watch for foreign objects when you are operating and avoid them as they can cause injury or damage.
- When operating along roads, pathways or populated areas fit approved chains or shielding (which is designed to reduce the possibility of objects being thrown) to the implement. If the implement is

missing or has damaged shielding, operation must be stopped when anyone comes within 100 metres.

- When working in populated areas always place signs in the area to alert people or vehicles that may pass.
- Keep all people and animals away from the implement during start up, operating and when stopping.
- Never discharge directly toward people, animals or property.
- Do not operate the implement or tractor while under the influence of drugs or alcohol.
- Operate only in daylight or good artificial light.
- Keep hands, feet, hair, and clothing away from moving parts while engine is running.
- Do not carry persons or objects on the Implement or tractor during work or while in transit.
- For transportation on public roads the operator must ensure that the tractor and implement complies with current State and Federal laws and must strictly adhere to all road traffic regulations in force in his/her particular state.
- Always operate equipment from the seat of the tractor with the seat belt securely fastened especially when operating controls or starting engine. Place transmission in neutral, engage break and ensure all other controls are disengaged before starting tractor engine.
- Operate tractor PTO at 540 rpm speed as stated in "Specifications" section unless you have purchased a Multi-Head and requested 1000rpm. Always ensure the correct setting on your tractor before start up.
- Look down and to the rear and make sure area is clear and safe before operating in reverse.
- Do not operate on steep slopes. If in doubt set rear axles wider for moderate slopes.
- Do not stop, start or change directions suddenly on slopes', working up and down is preferred.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Stop implement, then tractor, immediately upon striking an obstruction. Turn off engine, remove key, inspect and repair any damage before resuming operations. Always block implement when inspecting.
- Before commencing any adjustment, maintenance, or cleaning. switch off the tractor engine, remove key and wait until all moving parts have come to a complete stop, then ensure the machine is on the ground or on a robust secure support.
- Before dismounting tractor or performing any service or maintenance, disengage power to implement, lower the 3-point linkage and any other raised components (i.e. loader bucket) to the ground. Operate valve levers to release any hydraulic pressure, stop engine, set parking brake, remove key and unfasten seat belt.
- Never place any part of the body underneath the implement or between moveable parts even when engine has been turned off. Hydraulic systems can "creep" (i.e. slowly lower). They may fail or movement of the control levers can cause the implement to drop or rotate unexpectedly causing severe injury or death. Follow Operator's Manual instructions for working on your implement or have servicing carried out by a qualified dealer.
- During routine checks and/or repairs ensure that no one can switch on the tractor or Implement accidentally. Keep the key to the tractor in your pocket.
- For your own safety and that of others and to avoid forfeiting your warranty, use only original spare parts.
- Do not modify/alter or permit anyone else to modify/alter the implement or any of its components.
- Ensure implement is properly attached, adjusted and in good operating condition.
- Frequently check blades. They should be sharp, free of nicks and cracks and securely fastened.
- Do not handle blades with bare hands. Careless or improper handling may result in serious injury.
- Always use genuine Fieldquip Blades. Your dealer can supply you with genuine replacement blades.
- Firmly tighten all nuts/bolts/screws/shackles before operating. If worn or damaged, replace immediately.
- Block implements securely for storage.
- Keep children and bystanders away from storage area.
- Fieldquip Australia Pty Ltd accepts no responsibility or liability for any losses, injuries or damages that may result from failing to observe these safety rules and the safety decals on the implement

## OPERATION

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment. Remember it is the owners responsibility to ensure all operators are fully informed and trained.

**It has been said, “the best safety device is an informed careful operator” We ask you to be that kind of operator.**

- Place the 3 point linkage into its “float” operating mode to allow the machine and the hitch to move up and down.
- Pull the machine into the field and align the machine with the working area.
- Adjust the height – there are four sets of adjusting spacers on the wheel fork, which make the cutting height range of 40mm-90mm. By adding or reducing adjusting spacer to get a desired cutting height.
- Starting the machine – run the engine at low idle.
  - Slowly engage the PTO control to start the machine.
  - Slowly bring the engine to the rated PTO speed. Never exceed rated speed.
  - Lower the machine to the ground and proceed with operation.



### **NEVER OPERATE ESTATE FINISHING MOWER IN THE RAISED POSITION**

- Travel speed can vary between 5 and 13kph depending on the grass and terrain conditions. It is the responsibility of the operator to note the condition of the job being done and set the speed to obtain a quality cutting job and maintain control of the machine.
- Decrease speed if you are producing a ragged cut or leaving patches uncut.
- Do not allow children or untrained persons to operate this implement.
- Keep all people and animals away from the implement during start up, operating and when stopping.
- Never place any part of the body underneath the implement or between moveable parts even when engine has been turned off. Hydraulic systems can “creep” (i.e. slowly lower). They may fail or movement of the control levers can cause the implement to drop or rotate unexpectedly causing severe injury or death.
- Follow Operator’s Manual instructions for working on your implement or have servicing carried out by a qualified dealer.
- During routine checks and/or repairs ensure that no one can switch on the tractor or Implement accidentally. Keep the key to the tractor in your pocket.
- Watch for hidden hazards on the terrain during operation and avoid any hazards or object that could cause injury or damage.
- Inspect operating areas and remove any foreign objects that could be thrown, causing injury or damage. It is very important to always watch for foreign objects when you are operating and avoid them as they can cause injury or damage.
- When operating along roads, pathways or populated areas fit approved Fieldquip chains or shielding (which is designed to reduce the possibility of objects being thrown) to the implement. If the implement is missing or has damaged shielding, operation must be stopped when anyone comes within 100 meters.
- When working in populated areas always place signs in the area to alert people or vehicles that may pass.
- Stop implement, then tractor, immediately upon striking an obstruction. Turn off engine, remove key, inspect and repair any damage before resuming operations. Always block implement when inspecting.
- Always wear relatively tight fitted clothing to avoid entanglement in moving parts. Wear heavy-duty, rough-soled boots and protective equipment for eyes, hair, hands, hearing and head.
- A minimum 20% of tractor and equipment weight must be on the tractor’s front wheels with implement in transport position. Without this weight, tractor could tip over causing personal injury or death. The weight maybe attained with a loader, front wheel weights, and ballast in the tyres and/or front tractor weights. When attaining the minimum 20% weight on the front wheels, you must not exceed the ROPS max ballasted mass certificate. Weight the tractor and implement. Do not estimate.
- Inspect chains, shackles, deflectors and any wear parts for damage. Replace if damaged.
- Remove any debris that has accumulated on the implement, mower or engine to avoid fire hazard.
- Ensure all safety decals are installed. Replace if damaged.
- Ensure shields and guards are properly installed and in good working condition. Replace if damaged.

- Inspect operating area, remove where possible any stones or foreign objects that may cause injury or damage. It is very important to always watch for foreign objects in the area you are operating and avoid any that could cause injury or damage.
- When working in populated areas always place signs in the area to alert people or vehicles that may pass. Operation must be stopped when anyone comes within 50 metres.
- Keep all people and animals away from the implement during start up, operating and when stopping.
- Use extreme care when working close to fences, ditched, hillsides or other obstacles.
- Do not operate or transport on steep slopes.
- Never leave a tractor and implement running unattended.
- Operate only in daylight or good artificial light.
- Keep hands, feet, hair, and clothing away from moving parts while engine is running.
- Do not stop, start or change directions suddenly when traveling on slopes.
- Use extreme care and reduce ground speed when traveling on slopes and rough terrain. Stop implement, then tractor immediately upon striking an obstruction. Turn off engine, remove key, apply hand brake and chock wheels. Inspect and repair any damage before resuming operations. Always block implement when inspecting.
- Never place any part of the body underneath the implement or between moveable parts even when engine has been turned off.
- During routine checks and or repairs ensure that no one can switch on the tractor or implement accidentally. Keep the key to the tractor in your pocket.
- For your own safety and that of others and to avoid forfeiting your warranty, use only original spare parts.
- Do not modify or permit anyone else to modify/alter the implement or any of its components.
- Your dealer can supply you with genuine replacement parts.
- Firmly tighten all nuts, bolts, screws and shackles before operating. If worn or damaged then replace immediately.
- Block implements securely for storage.
- Keep children and by standers away from storage area.
- Fieldquip Australia accepts no responsibility or liability for any losses, injuries or damage that may result from failing to observe these safety rules and the safety decals on the implement.



### **Your Safety is involved be careful**

#### **PREPARATION**

Before commencing operation thoroughly read and understand your Operators Manual. Contact local utility companies to make certain there are no buried gas lines, electricity cables, etc in the area you will be operating. Then clear area of objects that could wrap around the blades or could be thrown by the slasher. Check for ditches, stumps, holes or other obstacles that could cause the loader to roll.

#### **ATTACHING TO THE IMPLEMENT**

- The Estate Finishing Mower should always be located on a level, clean dry area.
- The machine coupling is equipped with 3 pins so that the machine can be coupled with all tractors with universal coupling.
- Each telescopic pole on the machine can be adjusted properly according to the type of the tractor. Keep the Finishing mower away the tractor with a certain distance.
- The universal joint shall be tense and the largest distance of the machine driving shaft in the closed state shall be no shorter than 25cm.

**CAUTION: Before installing the universal joint, the tractor and the machine motor shall be stopped and the key be taken away.**

When attaching the machine to the tractor, follow this procedure.

1. Put off the protective cover of tractor's PTO shaft, lower link and suspension mechanics of tractor.

**Note:**

**It may be necessary to add weight to the 3 points hitch to lower the lift arms.**

2. Backing up the tractor at low speed towards the Finishing mower and raise the lower links to proper level.

3. Stop tractor, set park brake, remove ignition key and wait for all moving parts to stop before dismounting.
4. Connect two tractor's lower links with Finishing mower's left and right lower suspension bracket and put pins in. Connect the tractor's upper link with Finishing mower's upper suspension bracket well and put pin in.
5. Attach the machine driving shaft to the tractor's PTO shaft by retracting the locking pin, slide the universal joint over the shaft and push on the universal joint until the lock pin clicks into position. Pull on the universal joint to be sure it is locked in position.

**Note: While connecting the 3 points hitch, pay attention to that the PTO shaft of the tractor shall be parallel with the ground. It is very important to keep the machine driving shaft and the PTO shaft of the tractor in parallel.**

6. Make sure that the machine driving shaft telescopes easily and that the shield rotates freely.

**Important: Be sure that the machine driving shaft does not bottom out when going through its working angles.**

7. Use the 3 points hitch to raise the machine from the ground before moving the machine.
8. Reverse the above procedure when unhooking the machine from the tractor.

## STOPPING THE IMPLEMENT

1. Slowly decrease the engine speed to low idle.
2. Disengage PTO clutch slowly.



**Place all controls in neutral, lower machine, stop engine, set park, remove ignition key and wait for all moving parts to stop before dismounting.**

## TRANSPORT

- **Do not operate on steep slopes.**
- **Do not stop, start or change directions suddenly on slopes and traveling straight up and down is recommended.**
- **Use extreme care and reduce ground speed on slopes and rough terrain.**
- **Watch for hidden hazards on the terrain when traveling to where you will be operating.**

Pay close attention to the Safety Messages regarding transportation of this implement. Avoid unnecessary injuries and equipment damage by exercising cautious, conscientious travel procedures.

Attaching the implement to the loader increases the overall length of the working unit. Allow additional clearance for the implement to swing when turning.

## STORAGE

1. Thoroughly wash the machine ensuring all dirt, debris and residue is removed.
2. Repair or replace any worn or damaged components including decals.
3. Ensure that blades and rotor are inspected for damage or entangled material. Repair or replace damaged parts. Remove all entangled material
4. Lubricate all grease nipples, make sure that all grease cavities have been filled with grease to remove any water residue from the inside.
5. Store in an area that is dry, level and free of debris.

## MAINTENCE ????????????

## DAILY PRE OPERATION CHECKLIST

(Owners Responsibility)

- Review and follow safety rules outlined in this manual
- Check that implement is properly and securely attached to the skid steer loader

- Check oil runs out the small level plug on the side of the gearbox.
- Check all hardware (ie bolts, nuts, shackles, chains, etc) are properly installed, secured and in good condition.
- Check blades are sharp and secure
- Check that all shields and guards are properly installed and in good condition
- Check cutting height
- Set friction clutch as outlined in “Owner Service” section of this manual.
- Inspect area that you will be operating in and remove any object that may cause injury or damage.

## IMPORTANT

- **Vibration tends to loosen bolts during operation. All hardware should be checked regularly. It is good practice to check implement before each operation to ensure all hardware is secure.**

## OPERATING TECHNIQUE

- Set up your implement for the type of finish you are looking for as specified in the “Cutting Height Adjustment” of this manual, then return to the loader seat, fasten seat belt, make sure loader is in neutral and all other controls are disengaged before starting tractor engine.
- Gearbox protection is provided by a slip clutch with replaceable discs. The slip clutch is designed to slip when excessive torsion loads are encountered. Always make sure the clutch is set and working correctly before operating.
- Move into material slowly with Rotary Cutter. Adjust loader ground speed to provide a clean cut without straining the loader engine. If loader engine is straining, reduce amount of material being cut by taking a narrower pass. Ground speed will depend upon the terrain, the height, type and density of the material being cut. Normal ground speed will range from four to eight kph (two to five mph). Tall dense material should be cut at low speed; thin medium-height material can be cut at a faster ground speed. Use a slow ground speed for finer cutting
- Under some conditions, grass will not rebound enough to be cut evenly. In general, lower cutting heights give a more even cut with fewer tendencies to leave tracks. However, it is better to cut grass frequently rather than too short.
- Short grass deteriorates rapidly in hot weather and invites weed growth during growing seasons.
- **Inspect operating areas and remove any foreign objects that could be thrown. It is very important to always watch for foreign objects when you are operating and avoid them as they can cause injury or damage.**
- Extremely tall material should be cut twice. Set Rotary Cutter at a higher cutting height for the first pass. Then for the second pass cut at desired height, 90° at right angles to the first pass unless the terrain does not allow this. Remember, sharp blades produce a cleaner cut and require less horsepower.
- Analyse area to be cut to determine the best procedure. Plan your operating pattern to travel straight forward whenever possible. Mow clockwise around fields when possible to minimize streaking on corners. Consider height and type of grass and terrain type: hilly, level, rough. Always allow for the effect that the weight of an implement has on the loader particularly on hilly or unstable terrain. It is recommended that in hilly situations you work straight up and down not across the slope.
- **Do not operate on steep slopes.**
- **Do not stop, start or change directions suddenly on slopes, working up and down is recommended.**
- **Use extreme care and reduce ground speed on slopes and rough terrain.**
- **Watch for hidden hazards on the terrain during operation.**

## OWNER SERVICE

- The information in this section is written for operators who possess basic mechanical skills. Should you need help, your dealer has trained service technicians available. For your protection, read and follow safety information in this manual.

## BLOCKING METHOD

- To minimize the potential hazards of working underneath the implement, these procedures must be followed.
- **Never go underneath implements that are lowered to the ground or raised, unless it is properly blocked and secure. Never place any part of the body underneath the implement or between moveable parts even when engine has been turned off. Hydraulic systems can “creep” (i.e. slowly lower). They may fail or movement of the control levers can cause the implement to drop or rotate unexpectedly causing severe injury or death.**
- **Follow Operator’s Manual instructions for working on your implement, correct blocking procedures or have servicing carried out by a qualified dealer.**
- **During routine checks and/or repairs ensure that no one can switch on the tractor or implement accidentally. Keep the key to the tractor in your pocket.**
- **Jack stands with a load rating of 1000lbs or more are the only approved blocking devices for this implement. A minimum of four (4) jack stands, located under the implement must be installed before working underneath the implement. Do not position jack stands under wheels, axles or wheel supports as components can rotate and cause implement to fall.**
- When blocking, you must consider the overall stability of the implement. Just placing jack stands under the unit will not ensure your safety. The working surface must be level and solid to support the weight of the jack stands. Ensure jack stands are stable both top and bottom, and implement is approximately level. With full implement weight lowered onto jack stands, test blocking stability before beginning working underneath implement.
- Implement should be properly and securely attached to the tractor (see operating section), the brakes firmly set, key removed and both front and rear tractor wheels securely blocked.

## LUBRICATION INFORMATION

- Do not let excess grease collect on or around parts, particularly when operating in sandy conditions.
- Fieldquip recommends that all lubrication points be greased daily based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication.
- When greasing implement, be sure to clean fittings thoroughly before attaching grease gun. Fieldquip Australia Pty Ltd recommends Lithium Grease with a #2 consistency for all locations, unless otherwise noted.
- Fieldquip Australia Pty Ltd, in conjunction with the gearbox manufacturer recommends high quality gear oil with a viscosity index of 90W. Fill gearbox until oil runs out the side plug on the gearbox. Check gearbox daily for evidence of leakage. Have your dealer assist you should you find evidence of leakage.

## CUTTER BAR AND BLADE SERVICING

- It will be necessary to gain access to the bottom side of the slasher to change the blades. Raise implement and block securely as outlined in this manual, before changing the blades.
- Remove nuts and then carefully remove blade bolt. If blade bolt is seized in the cross bar, to prevent gearbox damage, it may be necessary to completely unbolt rotor before driving the old bolt out.

- Always replace or sharpen both blades at the same time. Inspect blade bolts for nicks and gouges; replace if any are found. Insert blade bolt through lower part of the blade beam, then through the blade with the hardened bush inserted.
- Finally insert through the top part of the blade beam and secure with new nyloc nut (do not reuse Nylock nuts). Blade should swivel on the bolt.
- Determine cause if it does not rotate and correct (ie maybe nut is too tight).

## **THE CLUTCH**

## SETTING THE CLUTCH

- Gearbox protection is provided by a slip clutch with replaceable discs. The slip clutch is designed to slip and when excessive torsion loads are encountered.
- All new clutches supplied with Fieldquip implements have been pre set by the following guide.
- Compress springs fully then back off two (2) turns.
- Fine tune so that the clutch slips occasionally.
- On 20 spline models, clutch retaining (clamp) bolts must be tightened to 150 ft/lbs to clamp clutch to shaft - LOOSE BOLTS = STRIPPED SPLINES.
- **Note: Discs are approximately 3.2mm thick when new. Replace discs after 1.6mm of wear. Minimum disc thickness is 1.6mm.**
- A new slip clutch, or one that has been in storage for some time, may be seized. Annually, release springs completely and allow clutch to slip to polish pressure plate. To do this you will have to carry out the following operations:
  - Make sure loader is turned off and key is removed.
  - Disconnect hydraulic hoses from skid steer
  - Remove clutch cover guard.
  - Loosen the bolts to remove all tension from the springs.
  - Wedge the blade beam so that it cannot rotate.
  - Grab clutch input shaft and turn to make sure clutch slips.
  - If clutch does not slip freely, disassemble and clean the face of the clutch pressure plates and spline base assembly.
- Reassemble clutch.
- Tighten each bolt evenly until the springs are compressed, then back off all nuts two (2) full turns.
- If clutch continues to slip then tighten each bolt half a turn at a time until clutch is no longer slipping.
- If springs are compressed to 24mm, check friction discs for excessive wear. Discs are approximately 3.2mm thick when new. Replace discs after 1.6mm of wear. Minimum disc thickness is 1.6mm. Every individual is operating in a slightly different environment with a range of variables that determine how the clutch must be set for their operation. The size of the loader, the size of implement and the work being carried out and the terrain are all factors that determine the clutch setting. A quarter or half a turn can make a big difference. It is for this reason that each clutch should be reset for your operating conditions.

## TROUBLE SHOOTING

| Problem  | Possible Causes                   | Solution   |
|--|-----------------------------------|--|
| Finishing Mower doesn't turn                                   | Tractor clutch slips.             | Tighten or replace slip clutch.  |
|  | PTO shaft slips                   | Repair tractor PTO clutch.   |
| Poor cutting job   | Travelling too fast.              | Slow down  |
|  | Grooves in grass                  | Bent blade. Straighten or replace blade.   |
|  | Dull Blades.                      | Sharpen or replace blades.   |
|  | Grass being left.                 | Travelling to fast. Slow down.<br>Top link to short. Extend top link.  |
| Grass discharges from mower unevenly or bunches along a swath. | Grass is too high and too coarse. | Slow tractor's ground speed but maintain 540 RPM PTO speed. Raise the mower for the first pass and lower to the desired cutting height for the second, and cut at 90 degrees to the first pass. Raise the rear o mower high enough to allow the grass to discharge, but not too high for streaking to occur. |
|  | Belt slipping                     | Tighten belt or replace belt. Allow grass to dry before mowing. Cut grass at a lower height. Slow tractor's ground speed but maintain 540 RPM PTO speed.   |
| Gearbox seal leaking   | Grease overheating.               | Drill 3/16" hole in level plug and insert cotter pin. Hole will act as a breather and prevent pressurizing.  |
| Noisy gearbox  | Poor gear mesh.                   | Remove input shaft and gear. Replace worn parts. Reassemble and use shims to give a gear backlash of 0.006-0.018 inches measured at 213/16" from shaft centerline.   |

|              |                  |  |
|--------------|------------------|--|
| Clutch slips | Overloads        | Slow travel speed.   |
|              | Clutch loose.    | Tighten springs on clutch plates.  |
|              | Clutch worn out. | Replace clutch components or assembly as required.                       |
| Vibration    | Out of balance   | Check for bent, damaged or broken blades. Repair or replace as required. |

## SPARE PARTS LIST

## GEARBOX SERVICE

The information in this manual requires special skills and tools. If you are not properly equipped or your mechanics are not properly trained in this type of repair, you may void your warranty or cause more damage leading to a larger repair bill.

- Never place any part of the body underneath the implement or between moveable parts even when engine has been turned off. Hydraulic systems can “creep” (i.e. slowly lower). They may fail or movement of the control levers can cause the implement to drop or rotate unexpectedly causing severe injury or death.
- Follow Operator’s Manual instructions for working on your implement or have servicing carried out by a qualified dealer.
- During routine checks and/or repairs ensure that no one can switch on the loader or implement accidentally. Keep the key to the tractor in your pocket.
- Keep all persons away from operator control area while performing adjustments, service or maintenance.
- Always wear relatively tight fitted clothing to avoid entanglement in moving parts. Wear heavy-duty, rough-soled boots and protective equipment for eyes, hair, hands, hearing and head.

## GEARBOX MAINTENANCE

- **During routine checks and/or repairs ensure that no one can switch on the loader or implement accidentally. Keep the key to the loader in your pocket.**
- **Keep all persons away from operator control area while performing adjustments, service or maintenance.**
- **Do not carry out any servicing on the gearbox if it has been operating. Gearboxes and the oil inside are very hot during operations and for sometime after you have finished and can cause serious burns. Always wait for gearbox to cool down.**
- Fill gearbox with high quality gear oil with a viscosity index of 90W. Fill gearbox until oil runs out the side plug on the gearbox. Gearbox Oil should be changed every 1000 hours of use or every two (2) years. Always drain oil into a container and dispose of it properly to protect the environment. Oil level must be checked daily. The composition of oil deteriorates over time and the intense heat that occurs when operating a gearbox reduces the oil level. Low oil levels will result in wear of gearbox components that overtime will result in component failure that could have been prevented. Repair to this gearbox should be limited to replacing bearings, seals and gaskets. Replacing gears, shafts and a housing is not cost effective.

It is more economical to purchase a complete gearbox if repairs other than bearings, seals and gaskets are required. It is highly recommended that the customer be given the costs involved in both scenarios as a new gearbox comes with a new warranty (gearbox only). Inspect gearbox for leakage and bad bearings. Leakage is a very serious problem and must be corrected immediately. Excessive noise and side to side or endplay in the shafts indicate bearing failure. Leakage can occur at the vertical or horizontal gasket and shaft seals. Leakage from the horizontal gasket or seal can be repaired without removing the gearbox from the slasher. Proper seal installation is important. An improperly installed seal will leak. Always ensure the area where the seal outer diameter sits is clean. Always inspect the area of the shaft where the seal sits and remove any burrs or nicks with emery cloth. Always lubricate gear shaft and seal lips before assembling. Remove and replace any seals damaged during assembly. When assembling gearboxes always clean housing paying specific attention to areas where gaskets will be installed. Wash housing and all components thoroughly. Select a clean area where you can assemble the gearbox. Replace any damaged seals, bearings or gaskets. All parts must be clean and lightly oiled before reassembled.

## **ASSEMBLY INSTRUCTIONS**

- Depending on the location of the dealer the implement maybe shipped partly assembled or in parts, in any case the assembly of this implement is the responsibility of the FIELDQUIP dealer. It should be delivered to the new owner completely assembled, lubricated and adjusted for normal cutting conditions. Dealers please note that, even if the implement is delivered to you fully assembled, an authorised company representative with mechanical knowledge should still carryout the pre-delivery checks to ensure that nothing has come loose in transit. Final assembly should result in the Rotary Slasher looking like the photos pictured earlier in this manual.

## **PRE-DELIVERY CHECKLIST**

### **(Dealers Responsibility)**

- Inspect implement thoroughly after assembly to be certain it is set up properly before delivering it to the customer. The following checklist is a reminder of points to inspect. Check off each item as it is found satisfactory either before or after corrections or services performed. Check all bolts to be sure that they are tight. Check all cotter pins are properly installed and secure

## **IMPORTANT**

### **DEALER DELIVERY INFORMATION**

- Check gearbox oil level before use, top up if needed, check seals are in good condition and not leaking. Refer to lubrication instructions and lubricate implement.
- Check that blades have been properly installed. Show customer how to make adjustments. Describe the options available for the implement and explain the purpose and how they work.
- Explain the importance of lubrication to the customer and point out all the lubrication points on the implement. Point out the safety features.
- Ensure the stability of the loader has not been compromised with the implement the customer has purchased.

- Give Operators Manual to the customer and recommend that customer become familiar with all sections, especially the safety and safe operating procedures.
- Explain to the customer that when transporting the implement on roads or highways, day or night, safety devices should be used to provide adequate warning to operators of other vehicles.
- Also explain the operator must ensure that the loader and implement complies with current State and Federal laws and must strictly adhere to all road traffic regulations in force in his/her particular state.

## **PRE DELIVERY CHECKLIST**

### **(Dealers Responsibility)**

Inspect implement thoroughly after assembly to be certain it is set up properly before delivering it to the customer. The following checklist is a reminder of points to inspect. Check off each item as it is found satisfactory either before or after corrections or services performed.

- The product is complete and correctly assembled
  - Check all bolts and ensure that they are tight
  - Check all cotter pins and linkage pins and ensure they are properly installed and can be secured
  - Check that any “wear points” (i.e. Points, blades, edges, tines) have been properly installed.
  - Check all hoses are properly connected and that the hoses are the correct length
- All lubrication is completed.
  - Refer to lubrication instructions and lubricate implement
  - Ensure that gearbox has correct oil and volume.
- All hydraulic fittings and hoses have been correctly installed
- Ensure the stability of the loader has not been compromised.
- All guards, safety features and decals are in place and secure.
- The product number and serial number are recorded      FQ\_\_\_\_ - \_\_\_\_\_

### **PRODUCT CHECKLIST – Delivery**

- The customer has been given the Operator’s Manual, Task Hazard Analysis and Farm Machinery Safe Work Practices
  - Has recommended to the customer to become familiar with all sections of manuals, especially safety and operation procedures.
- The customer undertakes to read the complete operator’s manual and understands its contents, prior to operation of the machine
- All safety information has been explained, and decals, guards and serial number identified
  - Explain to the customer about transporting the implement on roads or highways.
- The maintenance of the implement has been explained

The starting and operating procedures have been explained

**I acknowledge that all of the delivery items listed above were reviewed with me at delivery.**

**Dealers Name:** \_\_\_\_\_

**DealersAddress:** \_\_\_\_\_

**Customers Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Customer's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Dealer's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Please Note:** A signed complete copy of this form must be returned to us, with the "Warranty Registration & Installation Form" for legal & warranty purposes.

**Important**

Ensure the customer has signed the WARRANTY REGISTRATION & INSTALLATION FORM and a copy has been returned to Fieldquip Australia Pty Ltd, PO Box 333 Oakey, Queensland 4401

## WARRANTY

All Fieldquip machinery is covered by a comprehensive warranty against faulty materials and workmanship provided that (i) The machine is operated in normal use, (ii) The machine is correctly serviced and maintained, (iii) The machine is worked within its stated capacity (ie. Horsepower limit and PTO Speed), (iv) The machine is not subjected to any modifications or damage from improper use, (v) Fieldquip is in receipt of duly signed pre- delivery and installation certificate and warranty documentation.

The term of warranty shall be 12 months from date of installation except machines sold into the Hire Industry; these shall be void of warranty.

The following items are not covered by Fieldquip warranty; (i) Power Take-off shafts and clutches, (ii) Blades, tynes, knives, tyres, belts etc. (iii) Freight costs, (iv) Loss of income from the machine due to a warranty fault, (v) Use of non genuine parts.

The manufacturer's obligation under this warranty is limited to correcting without charge at its factory or by one of its authorised Dealers, with the manufacturer's approval, any parts thereof, within 12 months from date of purchase by the original user, and which upon examination shall disclose to the manufacturer's satisfaction to have been originally defective.

Correction of such defects by repair to, or supplying of replacements of defective parts, shall constitute fulfilment of all obligations to the original user: Manufacturer shall not be liable for loss, damage, or expense directly or indirectly from the use of its product or from any other cause. Defective parts must be returned freight paid each way by the purchaser to the manufacturer.

This warranty shall apply to any parts which must be replaced because of normal wear, or which have not been repaired or altered outside of the manufacturer's factory unless authorised by the manufacture. This warranty should not be construed as a free service period during the warranty period.

No person, agent or dealer is authorised to give any warranties on behalf of the manufacturer or to assume for the manufacturer any other liability in connection with any of its product unless made in writing from the manufacturer.

All claims will be nul and void if any warranty work is commenced without prior approval from Fieldquip.

## WARRANTY PROCEDURE

- Contact Dealer who will contact Fieldquip
- Photos of repair required emailed to [warranty@fieldquip.com](mailto:warranty@fieldquip.com) with description of problem
- Claim will be assessed by warranty department and if repair is approved a warranty claim number and form will be issued.
- This process is designed to take no longer than 24hrs from receiving email requesting warranty.
- Warranty claim form to be returned to Fieldquip prior to reimbursement.
- Under no circumstances will travel, freight charges be recognised under warranty this is the responsibility of the owner.
- Please note that not all items are covered under warranty, refer to warranty card. If unsure please contact warranty claim department on 07) 4691 1500.
- **Under no circumstance should work be commenced without a warranty claim form number and approval.**
- Fieldquip will not recognise any work carried out without a warranty claim number.

## DELIVERY, WARRANTY AND SAFETY ACKNOWLEDGEMENT

To be completed by the dealer and purchaser at the time of delivery and returned to Fieldquip

**Dealer Name and Address:**  
.....  
.....

On behalf of the above dealership I hereby state:

1. This is a new machine and has been thoroughly checked by our personnel prior to delivery and is in safe working condition.
2. I have fully explained the warranty including the owner's responsibility to pay for travelling costs and expendable items.
3. I have supplied the owner with an operator's manual and explained the service and safety aspects of the machines operation and the existence of the relevant safety standards.
4. I have shown the owner the service point of the machine and explained the importance of regular service.
5. I have delivered the operators manual and warranty card.
6. I have reviewed the contents of these books including the relevant sections on safety with the new owner.
7. I have demonstrated the machines safety features and explained the approved work practices.
8. I have discussed the approved codes of practice which apply to this type of machine.
9. I will arrange to return this form to Fieldquip for registration within 14 days of sale along with the warranty card.

Name: ..... (Block Letters) Position Title: .....

Signature: ..... Date: .....

**Owners Name and Address:** .....  
.....  
.....

I hereby acknowledge:

1. I have received and accepted delivery of the machine listed above.
2. The machine has been delivered to me with all systems functioning and running to my satisfaction.
3. I have been instructed and understand the application, limitations and capabilities that the machine has been designed for.
4. I understand and accept the Fieldquip warranty and understand I am responsible to pay for travelling costs and expendable items.
5. I have received an operator manual and warranty card and have reviewed their content regarding the correct operation of the machine.
6. I will be expecting confirmation of this warranty registration from Fieldquip.
7. The dealer has supplied an owner's manual with the machine and reviewed the sections on safety with me making any explanations that may be required.
8. I am particularly aware of the importance of not operating the machine outside the safety guidelines.
9. I understand the principles of safe operation of this machine and accept responsibility to ensure that any persons who operate this machine are properly instructed in these matters.
10. In the event that the regulatory authorities or Fieldquip should require modifications or new service procedures to be made or adopted we indemnify Fieldquip and the dealer from any liability or cost which may be involved.
11. In the event that ownership of this machine should pass from me, I undertake to pass responsibility for the above matters on to the new owner and I will advise Fieldquip of the change of ownership.

Name: ..... (Block Letters) Title: .....

Signature: ..... Date: .....