

Owners Manual

TAEGE ENGINEERING LIMITED

(www.taege.com)



Utility Seed Drills

UniDrill

Specializing in the Design and Manufacture of Innovative Farm
Equipment

Manufactured by:

Dealer / Local Agent

Taege Engineering Ltd

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A Ground Breaking Company Since 1923

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Introduction

This manual sets out the technical information for your guidance in the proper use and servicing of this implement.

Extra copies can be downloaded from **www.taege.com**.

The serial/chassis number are stamped and/or plated on the front right hand side of the drill, on the main chassis cross member.

Reference to the right and left hand side of the drill is as you see it from behind the drill looking toward the tractor.

Be sure to quote the drill model, chassis number and Controller version number when seeking advice and/or ordering spare parts.
E.g. 535 36 11.

Thank you for buying a **TAEGE** Seed Drill, we pride ourselves with over 50 years of specializing in the design and manufacture of innovative farm machinery. Your seed drill has been carefully designed and manufactured to provide years of dependable service, given normal care and proper operation.

Safety

- ❑ Focus on being prepared for emergencies.
- ❑ Read the operators manual carefully.
- ❑ Always follow recommended safe practices for operating this drill and its associated equipment.
- ❑ Including tractors and other machinery used in conjunction with this drill
- ❑ Identify and avoid un-safe terrain.
- ❑ Always use lynch pins and safety chains on all drawbar pins.
- ❑ Keep all covers in place at all time unless removed for repairs or servicing.
- ❑ Stop the drill before making adjustments.
- ❑ Lower drill to ground or put on stands when working around or under the machine.
- ❑ Ensure tractor electrics are disconnected and/or turned off and machine hydraulics disconnected when working on drill.
- ❑ Tighten all nuts and bolts after initial use and thereafter at regular 30 hr intervals.
- ❑ Tractor hydraulics should not be operated in the float position to ensure full drill penetration and proper contour following.
- ❑ Watch for moving parts and stay well clear of drill while it is moving.
- ❑ Practice safe handling of agricultural chemicals including treated seed.
- ❑ Wear appropriate safety equipment while operating the drill and including when filling seed / fertilizer hoppers and/or adjusting drill.
- ❑ This includes safety glasses, gloves, ear protection, close fitting clothing and steel capped boots.
- ❑ Visit www.osh.dol.govt.nz for additional guidance and instruction on safe practices in the rural sector and/or other sectors targeted for the intended use of this drill.

SAFE OPERATING PROCEDURES FOR **TAEGE DRILLS**

Before operating the Taege Drill please read the following 'Safe Operating Procedures'.

Failure to comply with these warnings could result in serious injury. A careful and alert operator is the best insurance against incidents. Taege drills are designed to be safe to operate.

- Do not wear loose clothing, unrestrained long hair, jewellery or anything which could entangle in components or limit your vision.
- Never work or walk or allow any person/child under the equipment.
- If travelling on the road please ensure that the tractor being used is fitted with the necessary lights, turn signals and all other legally required equipment.
- No person is ever to be between the tractor and this implement.
- **No person/child is to climb or ride onto this implement at any time other than the operator.**
- When parking or before working on the machine. Stop the tractor on a firm level surface and apply the parking brake. Lower the machine to the ground and switch off the engine. Remove the key for added safety.
- The drill /machine should not to be used unless the operator has been trained in its safe use.

Warranty

From the date of purchase your **TAEGE** machine is covered by a 12-month warranty period for faulty parts and/or workmanship.

Ensure your dealer completes and returns a warranty certificate within 7 days of date of purchase

Send to

Taege Engineering Ltd
Main West Road
Sheffield 7500
New Zealand.

On delivery record the following **Basic Information**

Model:.....

Chassis Number:.....

Delivery Date:.....

Owner: Dealer:.....

Check for shipping damage. In cases of shipping damage, ask dealer to arrange for appropriate claim to be lodged immediately.

Ensure the attached registration / warranty validation card has been completed.

Place owners copy of warranty in safe place.

Check that the Dealers copy of the warranty has been correctly filled out and returned to the manufacturer

Contact your dealer if you have any further queries.

Disclaimer

Drilling with Taege® seed drills in conditions normally outside of the germination tolerances of the seed concerned cannot be expected to give satisfactory results. Every attempt has been made to ensure the correctness of information and diagrams in this manual. Consequently, Taege Engineering Ltd will not be responsible for any damage or consequential loss arising out of misinterpretation of, or failure to follow, recommended practices and procedures. Nor will Taege Engineering Ltd be liable for any damage caused by, or arising out of modification or misuse of its product. Taege Engineering Ltd reserves the right to change technical details and prices without prior notice.

A full copy of Taege Engineering Ltd warranty document is available from sales@taege.com upon request.

Getting the Drill ready the first time

Attach the tractor to the drill using the tractor 3 point linkage. Connect and plug in the drill power lead to the tractor 30amp auxiliary power supply. Lift the drill and stow the stand in the working position. Adjust the tractor top link so that the drill is level, and adjust the RH lower link arm so that the drill is horizontally level and then lower the drill so that the tynes are on the ground. You are now ready to put seed/fertilizer into the hopper/s. Ensure that the wiring loom is clear of the tractor linkages.

Understanding Calibration

Calibration is the method on which you depend to put the correct amount of seed or fertilizer on an area of seed bed. The Controller control has been programmed to know the sowing width of the drill, the number of wheel counts per one hundred metres, and has the ability to speed up and slow down according to the ground speed. What the operator needs to do "is to accurately measure by weight of the seed that is to be sown". This is done by reading and following the instructions on page two of the **RC350 Controller Manual**. It most important that this is accurate, the weighing scales that are provided should be used, these measure in one gram increments. Care must be taken to prime the hopper before being calibrated, making sure that no bridging occurs.

Calibration

Go to the RC350 Controller ver 01.12>> Operators Manual and follow the instructions

Page 2 **QUICK CALIBRATION**

Drilling Speed

Taege drills are able to travel at faster average speeds achieving better tilth, average recommended speeds are from 8Kph to 12Kph.

Obviously ground conditions play an important part in achieving this optimum speed. It is important to inspect your seed placement when determining optimum drilling speed.

Setting the Sowing Depth

Your TAEGE drill is fitted with HD Flexible "S" tynes which contact the ground at a specific preset angle which gives greater contour following and penetration.

To check the sowing depth, it is recommended that you travel at your optimum drilling speed, and then check to make sure that seed placement is correct.

To set the depth, adjust both the ground wheels by choosing the correct position on each side of the drill.

Re-adjust the level of the drill using the tractors top link.

Drill Operation

Once you have set the correct depth set, mount the tractor and start drilling by turning the Controller to **RUN**. When you lift the drill at the end of a drilling run, the drill will automatically stop when the jockey wheel stops, and then start when the drill is lowered. In wet conditions, keep the jockey wheel clear of mud and debris.

End of Day

Follow the instructions on the page '**Run to Empty**' in the RC350 Controller Manual.

Removing Sponge Bar Assemblies

Lift the flaps on either side of the seed/fertilizer hoppers and secure them in the raised position using the locking tabs mounted on either side of hoppers in the centre. Push down the Taeye Snap locks and remove the sponge bars by putting sideways pressure on the bar (away from the motor) until it clears the drive shaft. Repeat the procedure for the other sponge bar/s.

Fitting the Sponge bar Assemblies

Locate the plain end of the sponge bar within the spring-loaded bearing on the side of the drill under the seed/fertilizer hoppers applying sufficient even pressure along the bar. Depress the spring in the bearing block so the collar on the motor end of the roller bar clears the end of the slotted driven shaft on the other end of the drill. Release the pressure on the bar, allowing the collar to engage with the drive shaft. Rotate the sponge bar assembly until the roll pin locates in the slot on the drive shaft. In this position all the sponges should be in line with the hopper openings. Check that all sponges are secure on the shaft. Always fit the furthest away sponge bar first and make sure that the sponge bar located correctly at both ends. They should align with the hopper openings. When the second bar is fitted, align the sponges with each other. If adjustment is needed, loosen with a 3mm allen key and align making sure both sponge bars are fully engaged with the motor end drive.

Bolted Connections

All bolts and grub screws should be re-tightened after the first day or 10 ha of use. The tyne and tip bolts should be checked at regular intervals (i.e. every 50 to 100 ha). Nyloc nuts should be replaced or a spring washer added after they have been removed more than once.

Tyre Pressure

The recommended tyre pressure is 26 -28.5Kpa (18-20psi) for the land wheels. The drill will bounce excessively if the land wheel tyres are over inflated. The jockey wheel is a solid tyre.

Stand

Always check that the stand is stored correctly.

Maintenance

Electrical Connections	Drill to tractor auxiliary connection Lead connections Wiring loom for damage	
3 point linkage	Pins located and pinned	
Bolts	All lynch pins All bolts Top baffle tri-nuts (if fitted)	
Tynes	Tyne tip bolts Dropper hose connections	
Hopper	Sponges for damage	
Wheels	Tyre inflation (pressure) or damage	
Jockey wheel	Clear any mud or debris Check scraper distance	
Stand	Correct position	
Lubrication	Grease daily where necessary	

Weekly

- Check the tyne nuts and wheel nuts are tight at all times
- Check hitch points for wear. Replace when necessary.
- Replace tynes if bent only by those recommended by the manufacturer.

STORAGE

- Store in shed away from vehicle or pedestrian traffic.
- Ensure machine is empty to eliminate rodent damage to rollers as this is not covered by warranty.

NOTES

Warranty Certificate

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