



# ICEMASTER 50™

## Broadcast Spreader

INSTRUCTION LEAFLET



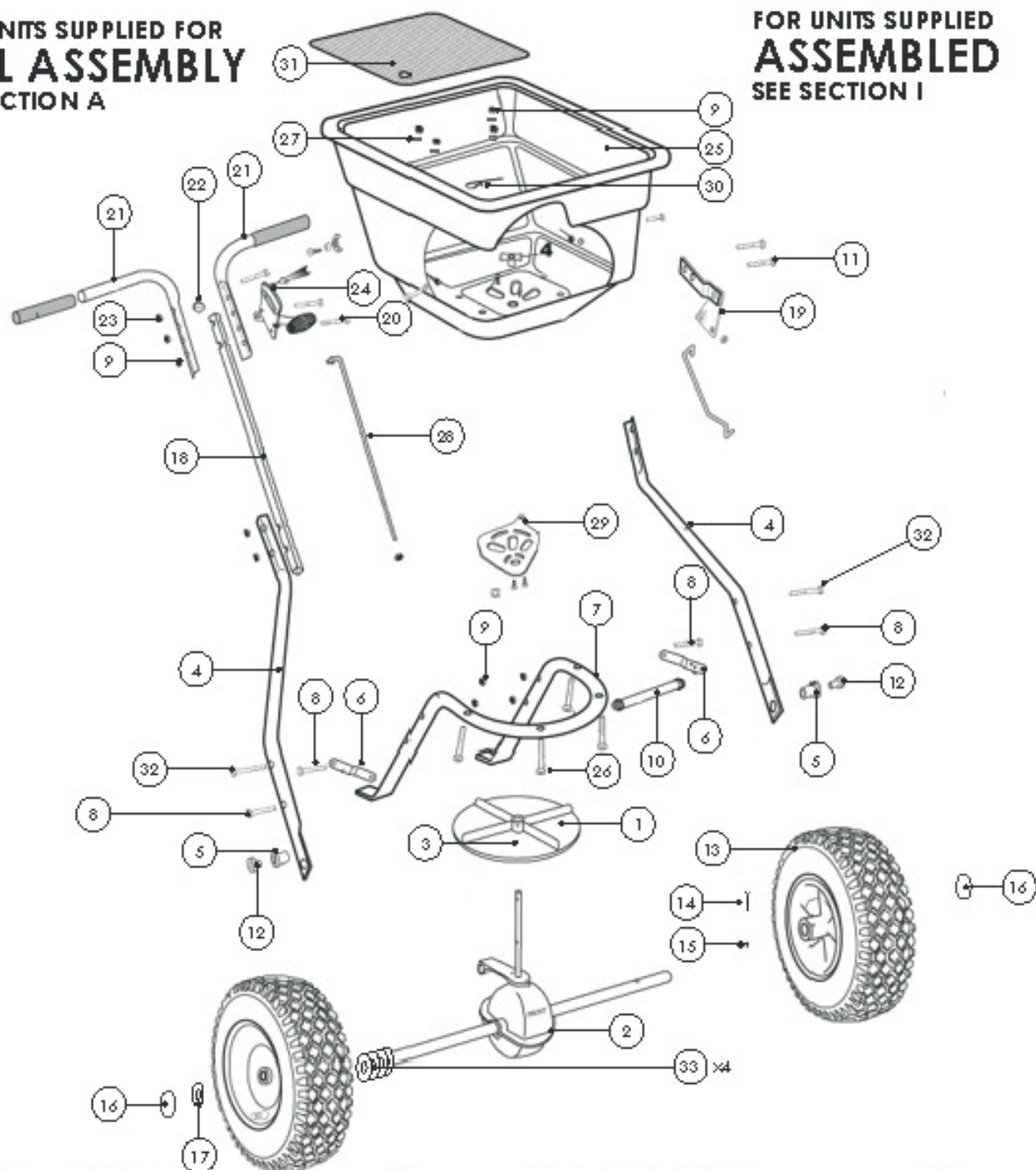
### **IMPORTANT NOTICE**

This machine is designed to spread dry granular material only  
IT WILL NOT SPREAD WET OR DAMP SALT

PLEASE MAKE THIS MANUAL AVAILABLE TO ALL PERSONNEL WHO  
WILL USE OR MAINTAIN THIS BROADCAST SPREADER

FOR UNITS SUPPLIED FOR  
**FULL ASSEMBLY**  
SEE SECTION A

FOR UNITS SUPPLIED  
**ASSEMBLED**  
SEE SECTION I



ITEM 1	SPINNER PLATE	QTY 1	ITEM 17	16MM FLAT WASHER	QTY 1
ITEM 2	GEARBOX AND AXLE ASSEMBLY	QTY 1	ITEM 18	HANDLE SHAFT	QTY 1
ITEM 3	SPLIT PIN	QTY 1	ITEM 19	PIVOT BRACKET ASSEMBLY	QTY 1
ITEM 4	WHEEL ASSEMBLY FRAME	QTY 2	ITEM 20	M6 X 50 MM BOLT	QTY 2
ITEM 5	AXLE BUSH	QTY 2	ITEM 21	UPPER HANDLE	QTY 2
ITEM 6	FRAME BRACE	QTY 2	ITEM 22	HANDLE SPACER	QTY 1
ITEM 7	HOPPER FRAME	QTY 1	ITEM 23	6MM FLAT WASHER	QTY 2
ITEM 8	M6 X 35 MM BOLT	QTY 4	ITEM 24	GUAGE AND LEVER ASSEMBLY	QTY 1
ITEM 9	M6 LOCK NUT	QTY 14	ITEM 25	HOPPER ASSEMBLY	QTY 1
ITEM 10	CONNECTOR ROD	QTY 1	ITEM 26	M6 X 45 MM BOLT	QTY 4
ITEM 11	M6 X 55 MM BOLT	QTY 2	ITEM 27	6MM LARGE WASHER	QTY 4
ITEM 12	INNER AXLE BUSH	QTY 2	ITEM 28	CONTROL ROD	QTY 1
ITEM 13	WHEEL	QTY 2	ITEM 29	FLOW CONTROL PLATE	QTY 1
ITEM 14	M6 X 45 MM BOLT	QTY 1	ITEM 30	R-CLIP	QTY 1
ITEM 15	M6 LOCK NUT	QTY 1	ITEM 31	GRILLE	QTY 1
ITEM 16	AXLE END CAP	QTY 2	ITEM 32	M6 X 60 MM BOLT	QTY 2
			ITEM 33	WHEEL WASHER	QTY 4

Remove the bag of fixings and identify the following components:



SPLIT PIN  
(ITEM 3 - 1 OFF)



M5 X 45MM  
HEX HEAD BOLT  
(ITEM 14 - 1 OFF)



M6 X 35MM  
HEX HEAD BOLT  
(ITEM 8 - 4 OFF)



M6 X 45MM  
HEX HEAD BOLT  
(ITEM 26 - 4 OFF)



M6 X 50MM  
HEX HEAD BOLT  
(ITEM 20 - 3 OFF)



M6 X 55MM  
HEX HEAD BOLT  
(ITEM 11 - 2 OFF)



M6 X 60MM  
HEX HEAD BOLT  
(ITEM 32 - 2 OFF)



M5 LOCK NUT  
(ITEM 15 - 1 OFF)



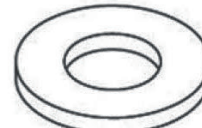
M6 LOCK NUT  
(ITEM 9 - 14 OFF)



6MM FLAT WASHER  
(ITEM 23 - 3 OFF)



6MM LARGE WASHER  
(ITEM 27 - 4 OFF)



16MM FLAT WASHER  
(ITEM 17 - 1 OFF)



WHEEL WASHER  
(ITEM 33 - 4 OFF)



INNER AXLE BUSH  
(ITEM 12 - 2 OFF)



AXLE END CAP  
(ITEM 16 - 2 OFF)

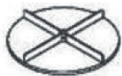


HANDLE SPACER  
(ITEM 22 - 1 OFF)

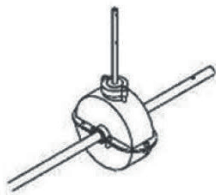


R-CLIP  
(ITEM 30 - 1 OFF)

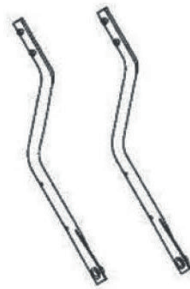
Ensure the following components have been received:



SPINNER PLATE  
(ITEM 1 - 1 OFF)



GEARBOX AND AXLE  
ASSEMBLY  
(ITEM 2 - 1 OFF)



WHEEL ASSEMBLY FRAME  
(ITEM 4 - 2 OFF)



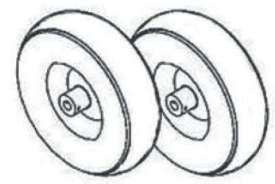
FRAME BRACE  
(ITEM 6 - 2 OFF)



HOPPER FRAME  
(ITEM 7 - 1 OFF)



CONNECTOR ROD  
(ITEM 10 - 1 OFF)



WHEELS  
(ITEM 13 - 2 OFF)



HANDLE SHAFT  
(ITEM 18 - 1 OFF)



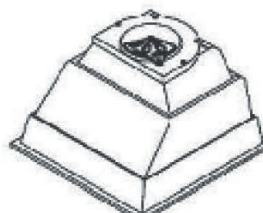
PIVOT BRACKET  
ASSEMBLY  
(ITEM 19 - 1 OFF)



UPPER HANDLE  
(ITEM 21 - 2 OFF)



GAUGE & LEVER  
ASSEMBLY  
(ITEM 24 - 1 OFF)



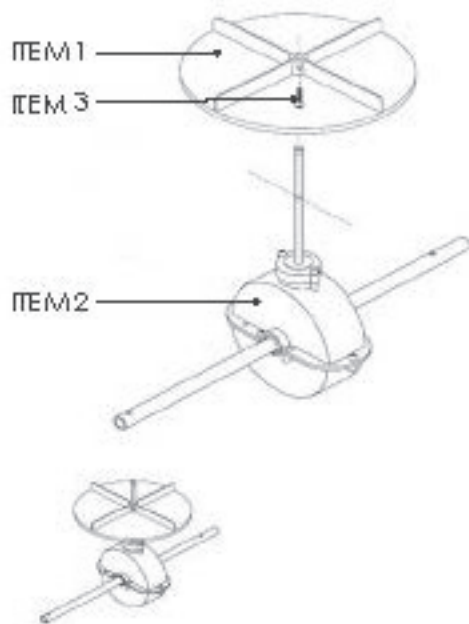
HOPPER ASSEMBLY  
(ITEM 25 - 1 OFF)



CONTROL ROD  
(ITEM 28 - 1 OFF)

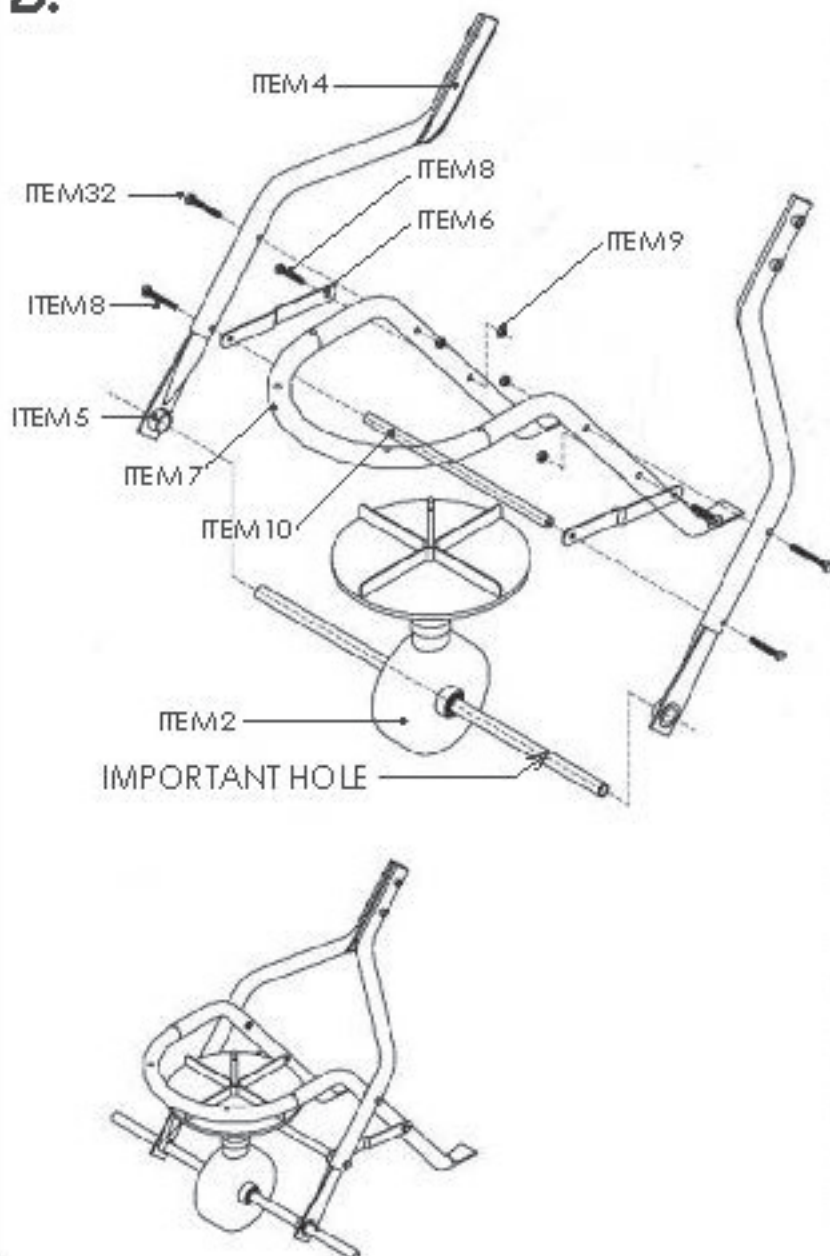


GRILLE  
(ITEM 31 - 1 OFF)

**A.****FULL ASSEMBLY**

Insert the Spinner Plate (ITEM 1) onto the vertical shaft of the Gear Box and Axle Assembly (ITEM 2).

Insert the Split Pin (ITEM 3) and splay the arms of the pin to secure the Spinner Plate in position.

**B.**

Take the Wheel Assembly Frame (ITEM 4 - 2 off) and locate on each end of the Gear Box and Axle Assembly (ITEM 2). Ensure Axle Bush (ITEM 5 - 2 off) are in position.

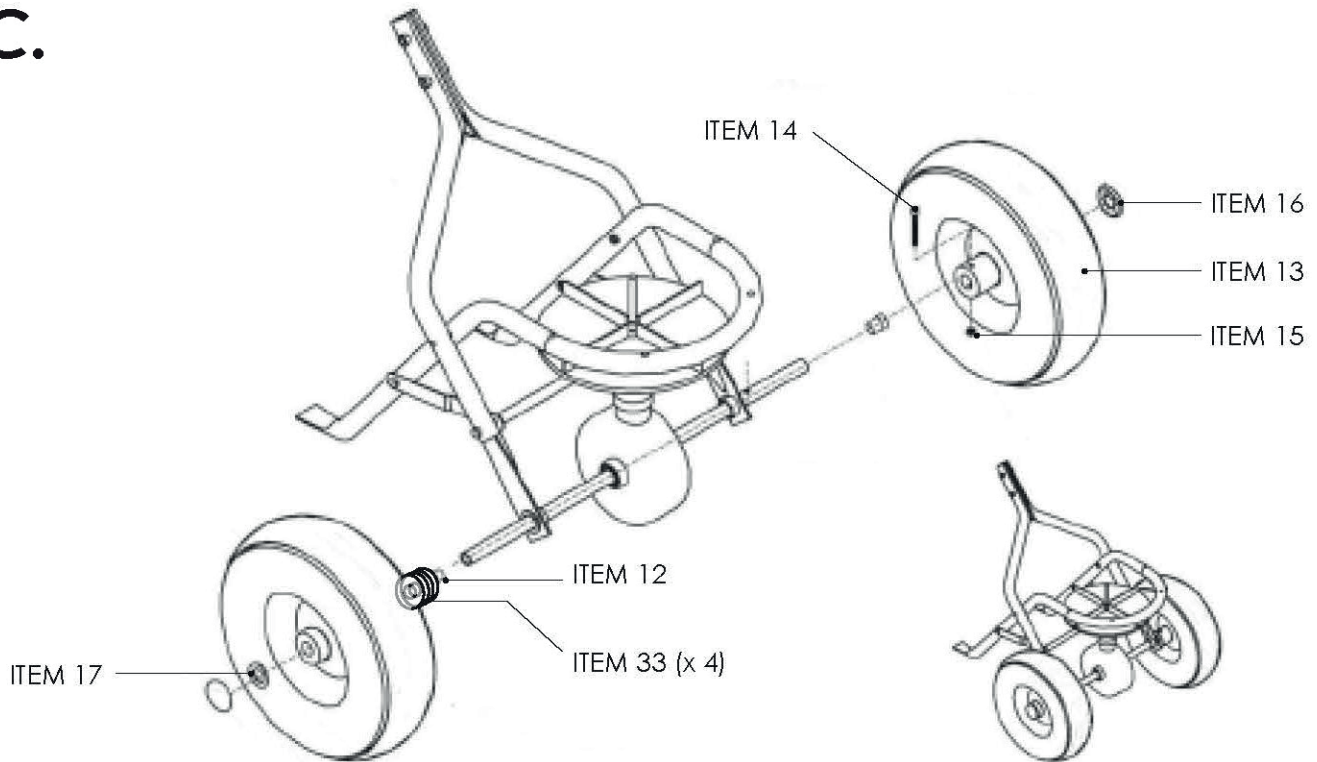
**IMPORTANT:** Ensure the hole in the Gearbox and Axle Assembly is positioned on the right hand side.

Attach one end of the Frame Brace (ITEM 6 - 2 off) to the Hopper Frame (ITEM 7), in the orientation shown, using M6 x 35mm Bolt (ITEM 8 - 2 off) and M6 Lock Nut (ITEM 9 - 2 off).

Secure the Connector Rod (ITEM 10) in position by inserting M6 x 35mm Bolt (ITEM 8 - 2 off) through each Wheel Assembly Frame (ITEM 4) and Frame Brace (ITEM 6).

Insert the M6 x 60mm Bolt (ITEM 32 - 2 off) through each Wheel Assembly Frame (ITEM 4) and Hopper Frame (ITEM 7). Secure in position using M6 Lock Nut (ITEM 9 - 2 off) - Do not fully tighten.

# C.

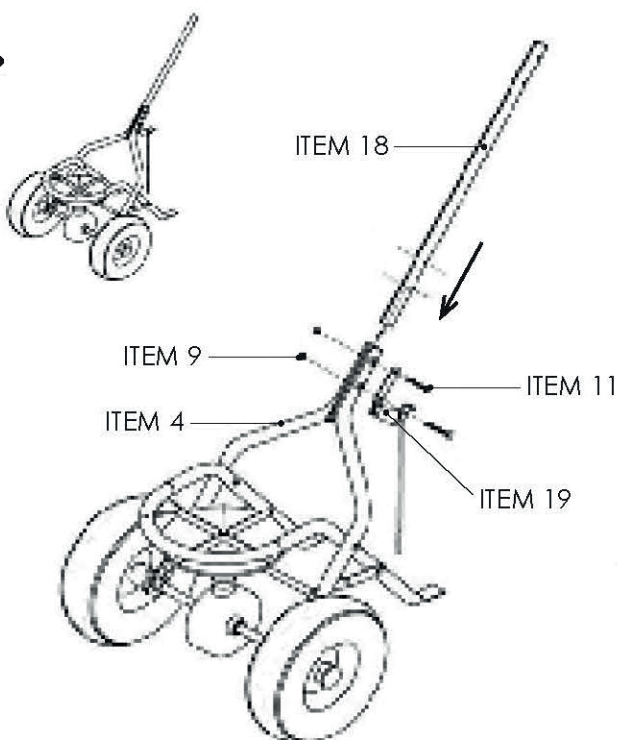


Slide Inner Axle Bush (ITEM 12 - 2 off) over each end of the Gearbox and Axle Assembly (ITEM 2) and fully insert into the Axle Bush (ITEM 5 - 2 off).

Locate Wheel (ITEM 13) onto the right hand Axle and align the hole in the wheel hub with the hole in the axle. Insert M5 x 45mm Bolt (ITEM 14) and M5 Lock Nut (ITEM 15) to secure the Drive Wheel. Gently tap the Axle End Cap (ITEM 16) into position.

Locate the 4 x Wheel Washers (ITEM 33's) onto the left hand Axle followed by the Free Wheel (ITEM 13) and 16mm Flat Washer (ITEM 17). Tap the Axle End Cap in position to secure the Wheel.

# D.

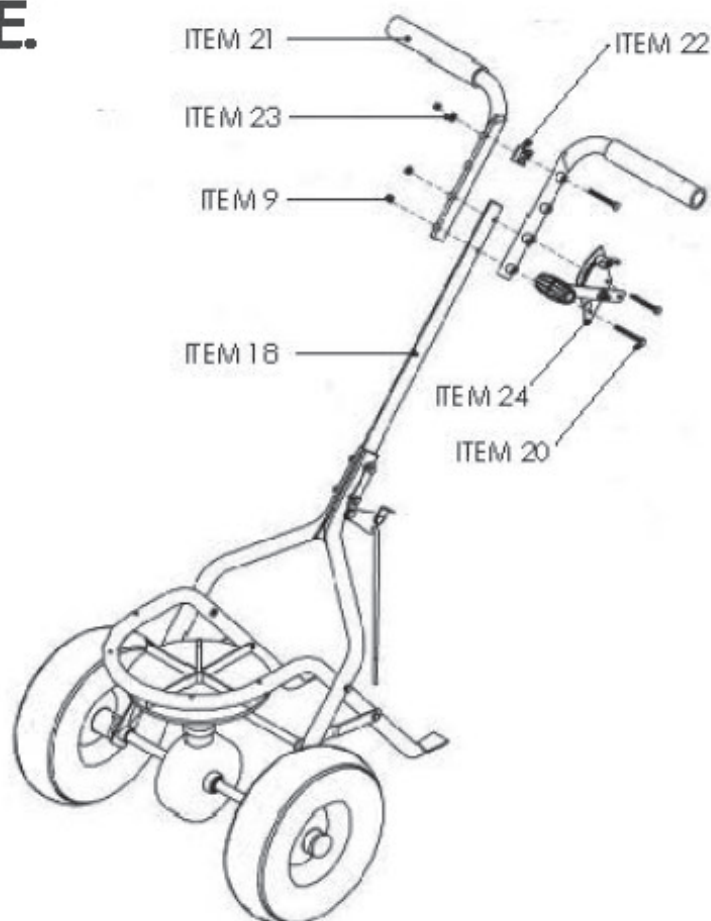


Insert the Handle Shaft (ITEM 18) between the two Wheel Assembly Frames (ITEM 4) ensuring the Handle Shaft is in the correct orientation. The lower holes are further from the end of the Handle Shaft.

Take the Pivot Bracket Assembly (ITEM 19) and align with the holes in the Wheel Assembly Frames and Handle Shaft.

Secure in position using M6 x 55mm Bolt (ITEM 11 - 2 off) and M6 Lock Nut (ITEM 9).

**FULLY TIGHTEN ALL NUTS AND BOLTS  
WITHIN THE ASSEMBLY FROM STEP A  
- DO NOT OVER TIGHTEN -**

**E.**

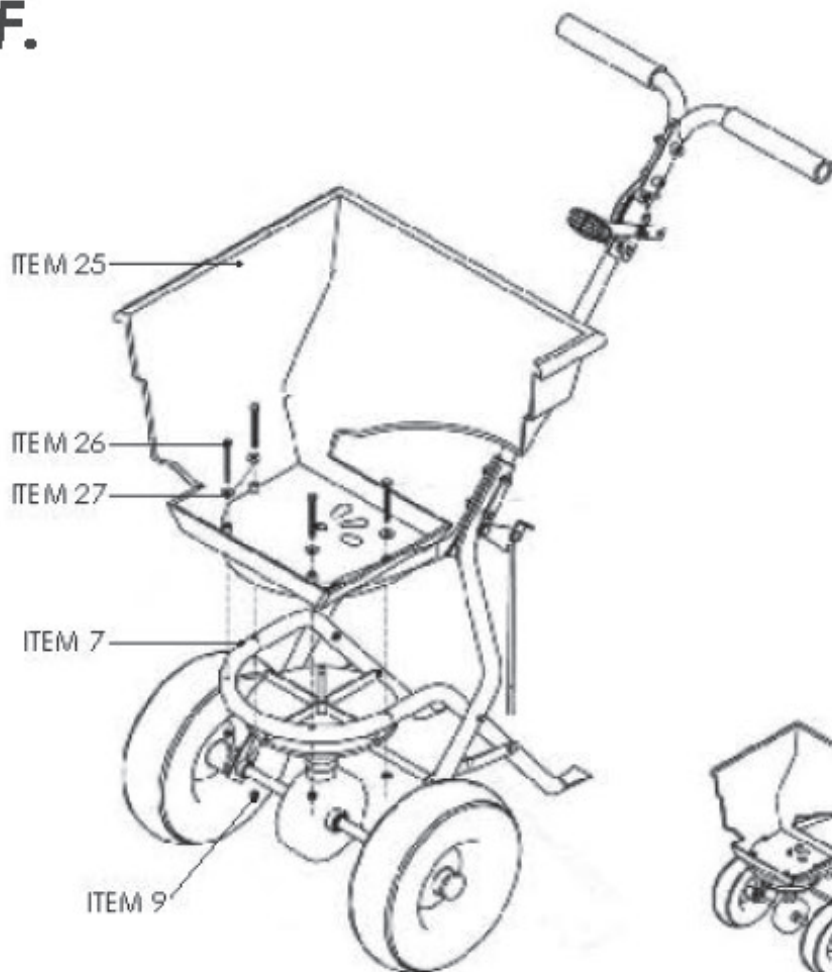
The Upper Handle (ITEM 21 - 2 off) can be fitted in three positions along the Handle Shaft (ITEM 18).

Select the most comfortable position for use. Should either of the two higher positions be chosen, fit the Handle Spacer (ITEM 22) in the top fixing hole of the Upper Handles with M6 x 50mm bolt (ITEM 20), 6mm Flat Washer (ITEM 23) and M6 Lock Nut (ITEM 9).

Take the Gauge and Lever Assembly (ITEM 24) and align the holes with the holes in the Upper Handles and Handle Shaft.

Ensure the Gauge and Lever Assembly is on the right hand side and the Handle Lever is facing forward.

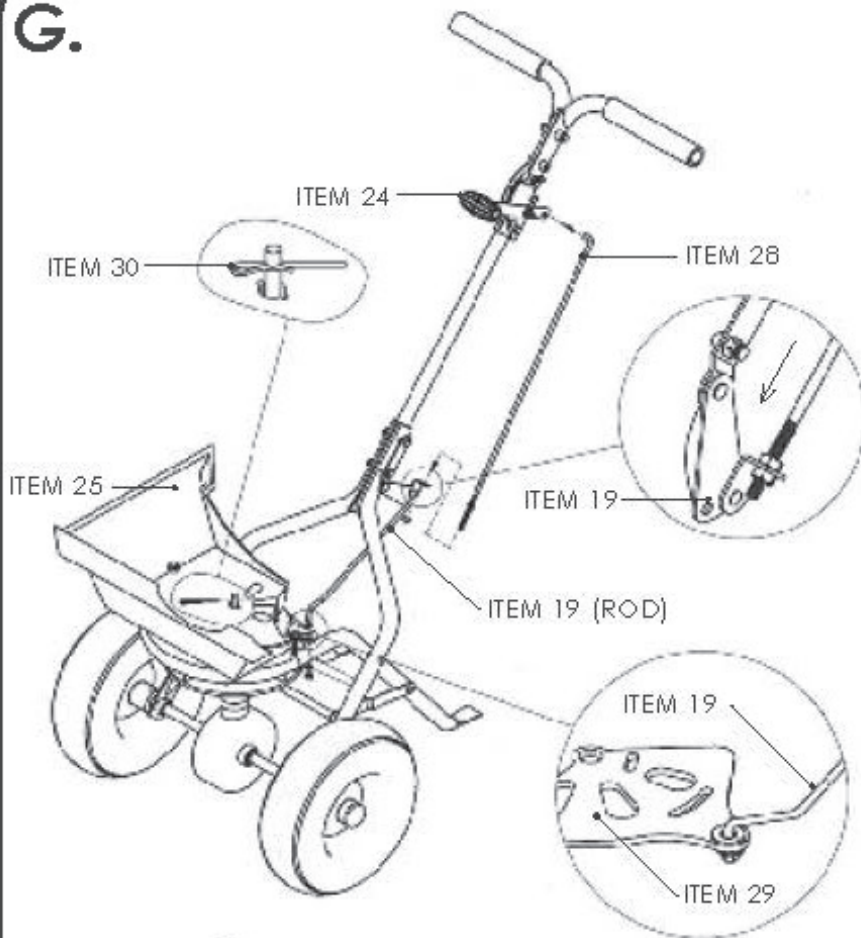
Secure in position using M6 x 50mm Bolt (2 off), 6mm Flat Washer (2 off) and M6 Lock Nut (2 off).

**F.**

Position the Hopper (ITEM 25) onto the Hopper Frame (ITEM 7) and align the four holes.

Ensure the vertical shaft of the Gearbox and Axle Assembly (ITEM 2) is located in the hole in the base of the Hopper.

Secure in position using M6 x 45mm Bolt (ITEM 26 - 4 off), Large 6mm Washer (ITEM 27 - 4 off) and M6 Lock Nut (ITEM 9 - 4 off).

**G.**

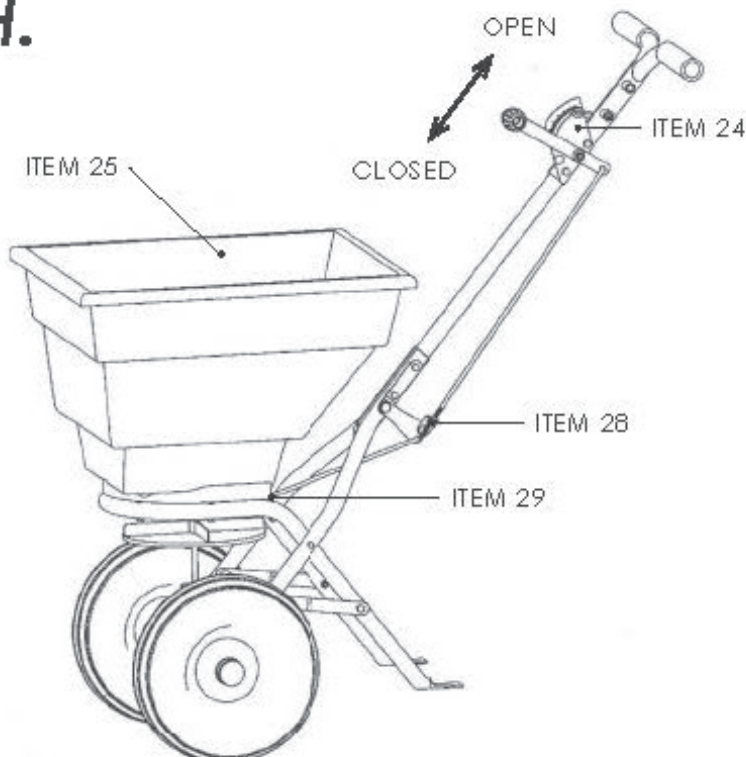
Push the Handle of the Gauge and Lever Assembly (ITEM 24) to its lowest position and insert the upper end of the Control Rod (ITEM 28) into the hole at the rear of the Handle.

Take off one of the nuts on the Control Rod (ITEM 28) and insert the threaded end into the angled bracket of the Pivot Bracket Assembly (ITEM 19) and affix the nut back onto the threaded Control Rod.

Take the Rod of the Pivot Bracket Assembly (ITEM 19) and insert the threaded end into the Flow Control Plate (ITEM 29) located on the underside of the Hopper (ITEM 25).

Ensure a 6mm Flat Washer (ITEM 23 - 2 off) is positioned on either side of the Flow Control Plate and secure in position with an M6 Lock Nut (ITEM 9).

To complete the assembly, insert the R Clip (ITEM 30) into the hole in the vertical shaft of the Gear Box and Axle Assembly (ITEM 2) from the inside of the Hopper (ITEM 25).

**H.**

Before use, push the Lever (ITEM 24) downwards to close the apertures in the base of the Hopper (ITEM 25) and pull the Lever upwards to open the apertures.

If the apertures in the base of the Hopper do not match the apertures in the Flow Control Plate (ITEM 29), adjust the position of the two nuts along the threaded Control Rod (ITEM 28).

Once the apertures are aligned, fully tighten both nuts.

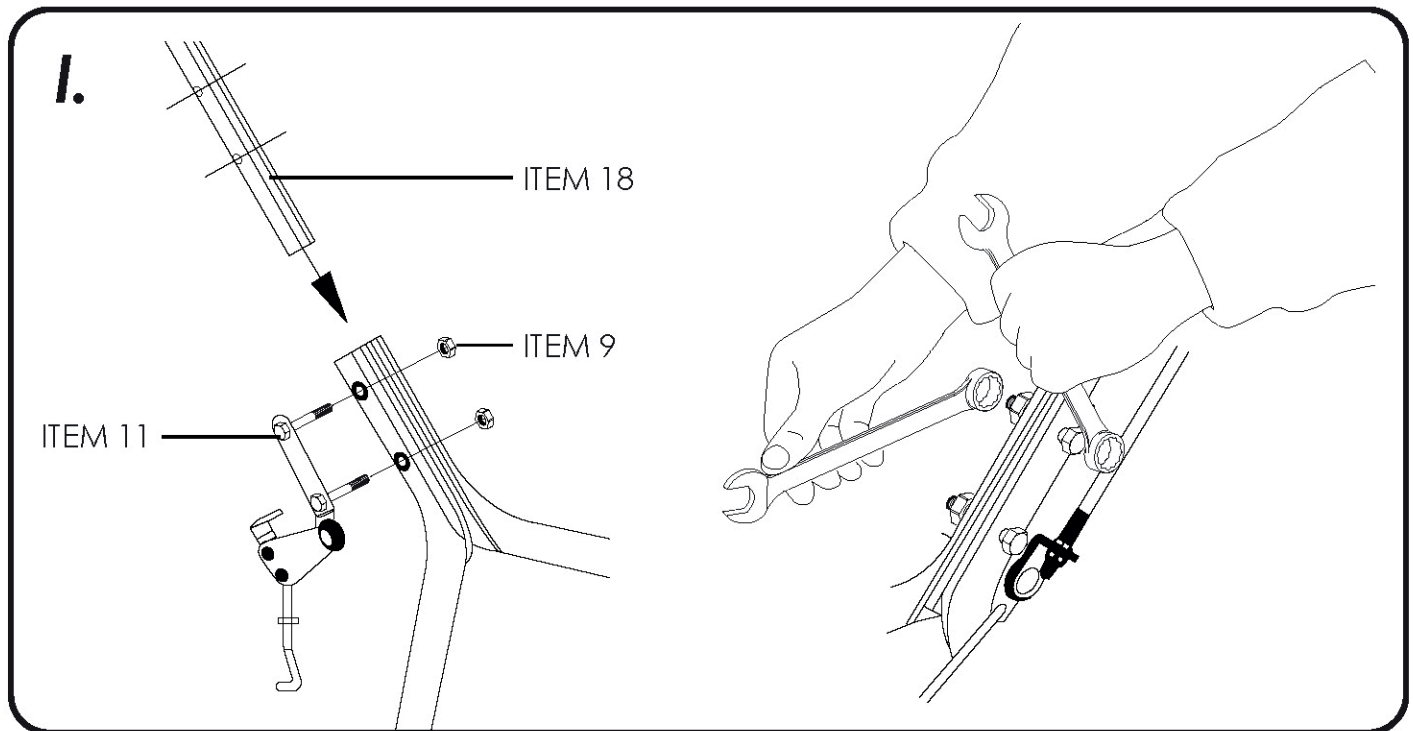
To limit the size of the open apertures when operating the Lever, move the position of the Wing Nut (ITEM 24).

# HANDLE SHAFT ASSEMBLY

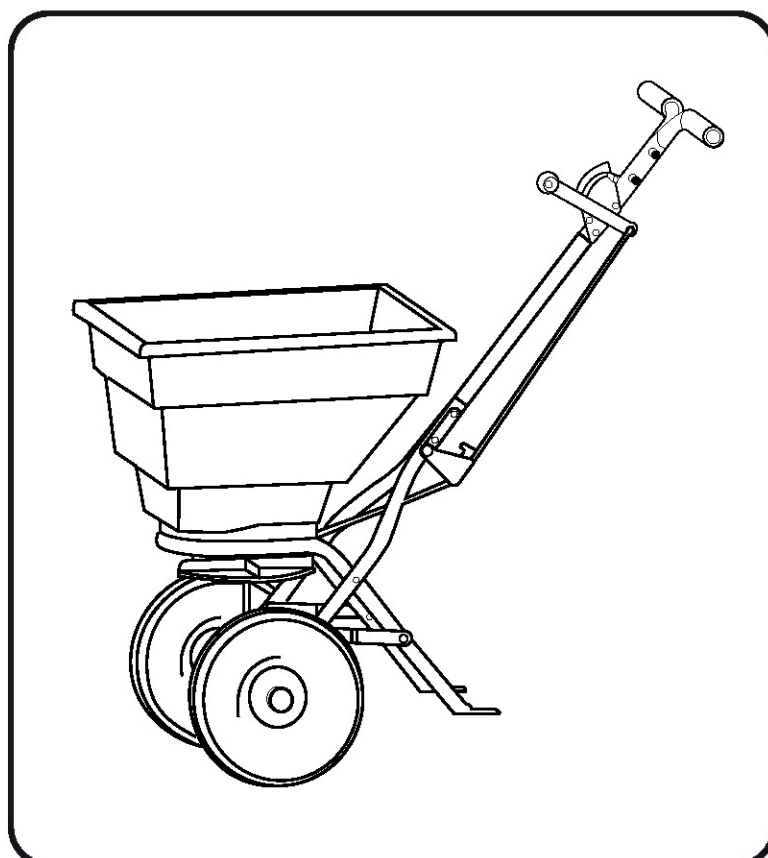
(REQUIRED WHEN UNIT SUPPLIED ASSEMBLED ONLY)

Remove the Icemaster 50 from the box.

Place the spreader onto the floor with the Handle Shaft detached



Place the Handle Shaft (ITEM 18) into the frame. Unscrew the nuts (ITEM 9) from the screws (ITEM 11) and remove the fixings. Slide the Handle Shaft down until it lines up with the holes on the frame and re-insert the screws. Fasten the nuts back onto the screws and tighten using 2 x 10mm Spanners (or Socket Set).



Once the Handle is attached the Icemaster is ready for use.

## OPERATION:

Ensure the Flow Control Lever is pushed downwards and the apertures in the base of the Hopper are closed before filling the Hopper with the spreading material.

We recommend Glasdon Icemelt or other dry granular material. Do not use damp or wet grit/salt and do not overload the hopper (maximum capacity approximately 50kg).

To operate the spreader, pull the Flow Control Lever upwards and push the spreader forward. The recommended operating speed is approximately 3mph, that of a brisk walk. The spinner plate speed and spread width are controlled by the speed at which you push the spreader.

## OPERATING TIPS:

- Do not overfill the hopper.
- Break up any lumps as you fill the hopper.
- Do not fill the hopper and transport over long distances.
- Fill the hopper at the operating location just prior to use.

## MAINTENANCE:

- To maximise the life of your spreader and to ensure it performs when you need it, please maintain your spreader regularly.
- Never allow your spreading material to remain in the hopper for extended periods of time - salt is hygroscopic, it will absorb moisture in the air and can set hard like concrete!
- Periodically check all fixtures and fittings for tightness.
- Rinse/dry inside and outside of the spreader after each use.
- Move the Flow Control Lever and Spinner Plate as you rinse to avoid build up of material.
- Spray with maintenance spray (e.g. WD40) which will drive out highly corrosive saltwater from the working parts and metal surfaces and will protect and lubricate.



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