



## OS900SP Owner's Manual

### OPERATION

#### FOLDING HANDLE

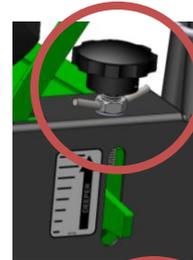
This unit is equipped with a folding upper handle for easier storage and transportation. The handle can be folded by sliding the handle lock loops (item 35) up. This releases the upper handle, allowing it to be folded over the unit.

#### ADJUSTING BLADE DEPTH

The depth of the blades can be raised or lowered by rotating the knob located at the rear of the machine. The relative depth of the blades can be gauged by using the depth scale located on the rear of the machine and the bar next to it.

#### BLADE POSITION & DEPTH CONTROL LEVER

The blades can be raised or lowered into the ground by height adjustment lever at the rear of the unit. The blades will be in their lowered position when the lever is to the left and should be locked in the notch on the right when in transport. The resulting blade depth can be adjusted higher or lower. See ADJUSTING BLADE DEPTH above.



#### SLICING TIPS

Before beginning, it is best to evaluate the condition of the lawn by cutting one or more core samples from area to be treated. A core can be cut using a piece of pvc, or metal pipe. Hammer the pipe into the ground, remove it, push the core out of the pipe and inspect it to determine the depth of thatch in your yard.

**THATCH:** Thatch is a dense layer of dead grass, clippings, and roots that builds up over time at the base of the lawn preventing air, water, and fertilizer from reaching the soil. This can cause shallow root development and make a lawn more susceptible to drought and disease. Thatch also provides an ideal environment for insects to hide and multiply. Periodic removal of thatch will keep your lawn in good health.

**HEAVY THATCH:** Lawns with an excessive amount of thatch will require multiple treatments for effective removal. Trying to remove excessive thatch (greater than 3/4"[19 mm] deep) in one treatment will damage or destroy the living part of the lawn. It is best to remove heavy thatch in seasonal treatments (i.e. spring, and fall).

**SLOPES:** Rake slopes across not up and down. This is much easier and safer for the operator and is better for the lawn. Raking across will help to reduce runoff during watering and allow the sloped ground to hold more seed, fertilizer, and water. The unit's maximum operating slope is 35% or 19°.

**DEPTH:** The wide range of depth adjustment on your unit is provided to allow for blade wear. Setting the reel deeper will not produce better, or quicker results. The slicing reel should be set even with the ground for verti-slicing work, and set to a maximum 1/2" depth for overseeding jobs. Setting the reel deeper than this will only result in premature wear on the unit (i.e. failed belt). If you desire to work the ground deeper than the above guidelines allow, it should be done gradually in multiple passes..

**VERTICUTTING / OVERSEEDING:** Mow the lawn to shorter than the normal cut height before starting (i.e. approximately 2" tall for fescue grass). For the best result, Slice/Overseed in criss-cross pattern (See Fig. 1 and See Fig 2).

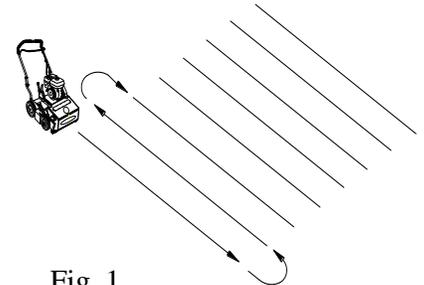


Fig. 1

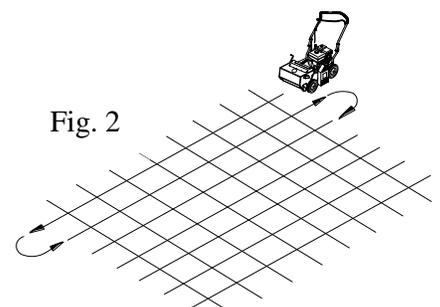


Fig. 2



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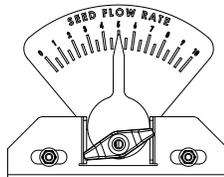
**VERTI-CUTTING OPERATION**

**MOW:** Mow the lawn to shorter than the normal cut height (approximately 2" tall)  
**DRY:** Be sure grass is dry. Wet conditions can cause increased damage to healthy grass.  
**SET DEPTH:** With engine off, set the raking depth so that the blades just touch on a flat surface (i.e. driveway, or sidewalk).  
**START ENGINE:** See Page 9.  
**ENGAGE BLADES:** Push the Reel Lever down on the operators handle (upper left side).  
**NOTE:** When engaging the blades in heavy load conditions (i.e. heavy thatch, or very uneven turf), push down on the operators handle lifting the front wheels slightly. Engage the blades. Slowly lower the unit into the turf.  
**SLICE:** Verti-cut a small test area and examine the results. Some thatch and cut stems should be removed and deposited on top of the healthy grass. Grass runners should be cut and ready for removal. If excessive damage occurs to healthy grass, adjust the blade depth to decrease damage. Continue raking the yard, working in one direction (i.e. north-south, or east-west).  
**NOTE:** If a large drop in engine RPM occurs, or bounces during operation the blade depth is set too low.  
**REMOVE THATCH/STEMS:** After verti-cutting, a layer of thatch and cut stems will be deposited over the top of the lawn. We suggest the use of a lawn vacuum or wheeled blower for collection and removal of the thatch/stems.

**OVERSEEDING OPERATION**

**MOW:** Mow the lawn to shorter than the normal cut height (approximately 2" tall)  
**DRY:** Be sure grass is dry. Wet conditions can cause increased damage to healthy grass.  
**SEED:** Spread grass seed according to the seed suppliers directions (e.g. 10 lbs. per 1000 ft<sup>2</sup> [4.5 kg. per 93 m<sup>2</sup> ]) Adjustments to the seed drop is located on the front of the unit on the seed dial and should be used in conjunction with the seed chart on the console.  
**SET DEPTH:** With engine off, set the raking depth so that the blades reach 1/4"-1/2"(6-12 mm) below a flat surface (i.e. driveway, or sidewalk).  
**START ENGINE:** See Page 9.  
**ENGAGE REEL AND SEED DROP:** Push down on the Reel lever on the operators handle. **NOTE:** When engaging the reel in heavy load conditions (i.e. heavy thatch, or very uneven turf), push down on the operators handle lifting the front wheels slightly. Engage the reel. Slowly lower the unit into the turf.  
**SLICE:** Run machine over the area that has been seeded to incorporate the seed into the soil. If excessive damage occurs to healthy grass, adjust the blade depth to decrease damage. Continue raking the yard, working in one direction (i.e. north-south, or east-west). **NOTE:** If a large drop in engine RPM occurs, or bounces during operation the blade depth is set too low.  
**WATER/FERTILIZE:** After the seed has been worked into the soil, water and fertilize according to the seed suppliers directions.

**ADJUSTING SEED RATE**



To set the seed flow rate, loosen the knob on the indicator dial and set it to the corresponding stop setting on the seed application chart (below or on the console) for the type and amount of seed being used.

**LAWN PREPARATION:**

- MOW LAWN TO LOWEST SETTING ON YOUR MOWER.
- DO NOT WATER PRIOR TO SEEDING.
- POWER RAKE TO DETATCH LAWN AND REMOVE THATCH.

**SEED APPLICATION CHART**

SEEDING RATES ARE SPEED DEPENDENT. THESE SEED RATES ARE BASED ON A GROUND SPEED OF 2.0 MPH. FASTER TRAVEL CALLS FOR LESS SEED.

SEED TYPE	REVERSE		FORWARD	
	MIN. LBS. / SQ.FT.	STOP SETTINGS	MIN. LBS. / SQ.FT.	STOP SETTINGS
RYE GRASS	2.00	A	1.00	1
	4.00	A,B	2.00	1,2
	8.00	A	4.00	1,2
BERMUDA GRASS	10.00	A,B	5.00	1,2
	20.00	A	10.00	1,2
BLUE GRASS	1.00	B	0.50	1
	2.00	B	1.00	1
FESCUE	3.00	A	1.50	1,2
	6.00	A	3.00	1,2
SP. ALLEGRIANO GRASS	10.00	A	5.00	1,2
	20.00	A	10.00	1,2
SHRUB	10.00	A	5.00	1,2
	20.00	A	10.00	1,2

**SEEDING RECOMMENDATIONS:**

FOR BEST RESULTS OVERSEED IN TWO PASSES OF ONE HALF APPLICATION RATE AT RIGHT ANGLES OR IN A CROSS-CROSS PATTERN. WATER HEAVILY IMMEDIATELY THEN LIGHTLY FOR 10 - 14 DAYS BEYOND SOIL MOIST. AFTER GERMINATION, WATER LESS OFTEN TO PROMOTE GROWTH.

**REEL DRIVE/SEED DROP**

REVERSE

**FORWARD**

FORWARD

INSTRUCTION LABEL P/N 351501