Owner's Manual



42" HIGH PERFORMANCE

LAWNSWEEPER

Model No's. 486.24222



CAUTION:

Before using this product, read this manual and follow all Safety Rules and Operating Instructions.

IMPORTANT: For Missing Parts or Assembly Questions Call 1-866-576-8388

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A. www.sears.com/craftsman

- Safety
- Assembly
- Operation
- Maintenance
- Parts

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WARRANTY

TWO YEAR FULL WARRANTY ON CRAFTSMAN LAWNSWEEPER

When assembled, operated and maintained according to the supplied instructions, if this Craftsman Lawnsweeper fails due to a defect in material or workmanship within two years from the date of purchase, call 1-800-4-MY-HOME to arrange for free repair (or replacement if repair proves impossible).

This warranty is void if this product is ever used for commercial or rental purposes.

This warranty applies only while this product is used in the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179



SAFETY

Any power equipment can cause injury if operated improperly or if the user does not understand how to operate the equipment. Exercise caution at all times, when using power equipment.

- Read the vehicle and sweeper owners manuals and know how to operate your vehicle and sweeper before using this sweeper attachment. Always instruct other users before they operate the sweeper.
- 2. Do not permit children to operate sweeper.
- 3. Do not permit anyone to ride on sweeper.
- 4. Never attach the hopper rope to any part of your body or clothing! Never hold onto the rope while towing the sweeper! Attach the rope to the towing vehicle to keep it away from wheels and rotating parts.
- Operate the sweeper at reduced speed on rough terrain, near ditches and on hillsides to prevent loss of control.
- 6. Vehicle braking and stability may be affected with the attachment of this sweeper. Do not fill sweeper to maximum capacity without checking the capability of the towing vehicle to safely pull and stop with the sweeper attached. **Stay off of steep slopes.**
- 7. Stop and inspect vehicle and sweeper for damage after striking an object. Repair any damage before continuing operation.
- 8. Keep sweeper away from fire. Excessive heat can damage the brushes and hopper bag and could cause the bag and its contents to burn.
- 9. Before storing the sweeper, always empty the hopper bag to avoid spontaneous combustion.
- 10. Follow maintenance and lubrication instructions as outlined in the maintenance section of this manual.



Look for this symbol to point out important safety precautions. It means--Attention!! Become alert!! Your safety is involved.

The model and serial numbers will be found on a decal
attached to the lawnsweeper.MODEL NUMBER:
SERIAL NUMBER:
DATE OF PURCHASE:You should record both the serial number and the date of
purchase and keep in a safe place for future reference.MODEL NUMBER:
SERIAL NUMBER:
DATE OF PURCHASE:

486.24222

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ACCESSORIES AND ATTACHMENTS

These accessories were available when the unit was purchased. They are also available at most Sears retail outlets and service centers. Most Sears stores can order repair parts for you when you provide the model numbers of your tractor and sweeper



CARTON CONTENTS (Loose Parts in Carton)

- 1. Sweeper Housing Assembly
- 2. Bag Arm Tube (2)
- 3. Hitch Tube, L.H. (Left Hand)
- 4. Hitch Bracket Assembly
- 5. Hitch Bracket, Bent

- 6. Height Adjustment Strap
- 7. Height Adjustment Handle
- 8. Hitch Tube, R.H. (Right Hand)
- 9. Rope
- 10. Hopper Bag

- 11. Rear Hopper Tube (2)
- 12. Upper Hopper Tube (2)
- 13. Lower Hopper Tube (2)
- 14. Pivot Rod
- 15. Hopper Support Strap (2)
- 16. Bag Frame Strap



HARDWARE PACKAGE CONTENTS

6 4 Η _C G B _**E** _ A _ D I J Κ Ν 0 \bigcirc -L - M P \bigcirc

SHOWN FULL SIZE



NOT SHOWN FULL SIZE

REF.	QTY.	DESCRIPTION	REF.	QTY.	DESCRIPTION
Α	2	Hex Bolt, 5/16-18 x 3" Lg.	к	1	Spacer Bushing,
В	2	Hex Bolt, 5/16-18 x 2-1/4" Lg.	L	1	Hairpin Cotter, 1/8"
С	4	Hex Bolt, 5/16-18 x 1-3/4" Lg.	М	8	Hairpin Cotter, 3/32"
D	1	Carriage Bolt, 5/16-18 x 1" Lg.	N	2	Clevis Pin, 3/8" x 1/2"
E	4	Carriage Bolt, 5/16-18 x 3/4" Lg.	0	4	Clevis Pin, 1/4" x 1-1/8"
F	12	Nylock Nut, 5/16"	Р	2	Clevis Pin, 1/4" x 1-3/4"
G	2	Palnut, 3/8"	Q	4	Hopper Clamp
н	1	Flat Washer, 5/16" Standard	R	4	Plastic Plug
	1	Washer, Tooth Lock 5/16"	S	2	Vinyl Cap
J	2	Hitch Spacer, 3/4"	Т	1	Grip
			U	1	Knob, Plastic

ASSEMBLY

TOOLS REQUIRED FOR ASSEMBLY

- (1) Hammer
- (2) 1/2" Wrenches
- (1) Scissors or knife

STEP 1 - REMOVE PARTS FROM CARTON

- To protect painted parts, lay them on cardboard or a mat.
- Remove the sweeper housing, the loose parts and the hardware package from the carton. Lay out the parts and hardware as shown on pages 3 and 4.

STEP 2 - ASSEMBLE HITCH TUBES

- The hitch tubes are stamped with a "77L" for the left tube and a "76R" for the right tube. The sweeper housing is marked with and "L" on the left with side and an "R" on the right side. See figure 1.
- Hold the left hitch tube against the left side of the sweeper so that the "77L" on the tube faces away from the sweeper. Attach the hitch tube using two hex bolts (C) and nylock nuts (F). Repeat for the right hitch tube, but with the "76R" facing in toward the right side of the sweeper. Do not tighten yet. See figure 1.

STEP 3 - REMOVE PLASTIC TIE

 Remove the plastic tie that fastens the height adjustment tube to the front of the sweeper housing. See figure 1.



FIGURE 1

STEP 4 - ASSEMBLE HEIGHT ADJ. STRAP

 Place the spacer bushing (I) into the hole in the height adjustment strap. Place the strap and bushing between the hitch tubes, aligning them with the rear hole. Fasten the hitch tubes together, with the strap and bushing between them, using two hex bolts (A) and nylock nuts (F). **Do not tighten yet.** See figure 2.



STEP 5 - MEASURE TRACTOR HITCH HEIGHT

• Use the mark along the side of this page to measure the height of the tractor hitch. The mark is 10" from the bottom of the page. If the tractor hitch is less than 10" above the ground, go to **STEP 6a**. If the tractor hitch is 10" or more above the ground, go to **STEP 6b**.

STEP 6a - ASSEMBLE HITCH BRACKETS

- If the tractor hitch is less than 10" above the ground, place the bent hitch bracket underneath the hitch tubes and place the hitch bracket assembly on top of the hitch tubes. Insert two hex bolts (B) through the brackets, with the rear hex bolt between the cross bolts in the hitch tubes. Secure the hex bolts (B) with two nylock nuts (F). See figure 3. Do not tighten yet.
- Assemble the two spacers (J) onto the hitch pin and secure the pin with the hairpin cotter (L). See figure 3.



FIGURE 3

STEP 6b - ASSEMBLE HITCH BRACKETS

- If the tractor hitch is 10" or more above the ground, place the bent hitch bracket on top of the hitch tubes and place the hitch bracket assembly underneath the hitch tubes. Insert two hex bolts (B) through the brackets, with the rear hex bolt between the cross bolts in the hitch tubes. Secure the hex bolts (B) with two nylock nuts (F). See figure 4. Do not tighten yet.
- Assemble the two spacers (J) onto the hitch pin and secure the pin with the hairpin cotter (L). See figure 4.



FIGURE 4

STEP 7 - TIGHTEN BOLTS

Tighten the four bolts in figure 1 that fasten the hitch tubes to the sweeper housing. Next, tighten the two bolts in figure 2 that fasten the ends of the hitch tubes together. Finally, tighten the two bolts in figure 3 or 4 that fasten the hitch brackets to the hitch tubes.

STEP 8 - ATTACH HANDLE

- Assemble the height adjustment handle to the height adjustment tube on the front of the sweeper housing. Use the curved head bolts, bowed washers, lock washers and hex nuts which come pre-assembled to the tube. Position the height adjustment handle side to side so that the height adjustment strap will align up against the outside of the handle and then tighten the nuts. See figure 5.
- Assemble the grip (T) onto the end of the height adjustment handle as shown in figure 5.



FIGURE 5

STEP 9 - ATTACH KNOB

Place the tooth-lock washer (I) between the height adjustment handle and the height adjustment strap. Insert the carriage bolt (D) through the handle, the tooth-lock washer and the strap. Assemble the flat washer (H) and the plastic knob (U) onto the end of the bolt and tighten. See figure 6.



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FIGURE 6
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ASSEMBLY OF HOPPER BAG

STEP 10 - ASSEMBLE UPPER TUBES

Fit the ends of the two upper hopper tubes into the ends of a rear hopper tube. Align the holes in the ends of the tubes and insert plastic plugs (R). See figure 7.

NOTE: Either side of the rear hopper tube can face up.



STEP 11 - ASSEMBLE LOWER TUBES

- Fit the ends of the two lower hopper tubes into the ends of a rear hopper tube. Align the holes in the ends of the tubes and insert plastic plugs (R). See figure 8.
- Insert a clevis pin (O) from the outside into each lower hopper tube and secure it with a hair cotter pin (M). See figure 8.

NOTE: Either side of the rear hopper tube can face up.



FIGURE 8

STEP 12 - ASSEMBLE TUBES TO BAG

- Unfold the hopper bag, reverse the fold of the mesh wind screen and then lay the bag out flat with the wind screen on top.
- Insert the ends of the assembled upper hopper tubes down through the stitched sleeves in the sides of the hopper bag and then slide the tubes back underneath the wind screen. See figure 9.



FIGURE 9

- Place the assembled lower hopper tubes into the bottom of the hopper bag and then slide the tubes to the back of the bag. See figure 10.
- Attach the ends of the lower hopper tubes to the inside of the upper hopper tubes using two clevis pins (N) inserted from the inside, and two hair cotter pins (M). See figure 10.



STEP 13 - ATTACH BAG BOTTOM

- Insert the bag frame strap into the stitched sleeve at the front edge of the bag bottom. See figure 11.
- Fold the bag flaps around the lower hopper tubes and attach to the bag bottom using the snaps. See figure 13.



FIGURE 11



FIGURE 13

• Assemble the bag frame strap to the holes in the lower hopper tubes using two clevis pins (O) and hair cotter pins (M). See figure 12.



FIGURE 12

STEP 14 - ASSEMBLE HOPPER CLAMPS

 Assemble two hopper mount clamps (Q) over the hole in the middle of each upper hopper tube using two carriage bolts (E) and two nylock nuts (F). Tighten only finger tight. See figure 14.





STEP 15 - ASSEMBLE PIVOT ROD

Slide the end of the pivot rod through the upper hopper tube and the hopper mount clamps on one side of the hopper. Place a hopper support strap and then a bag arm tube onto the rod. Slide the rod through the stitched sleeve at the front edge of the wind screen, and then place another bag arm tube and a hopper support strap onto the rod. Slide the rod through the other upper hopper tube and hopper mount clamps. See figure 15.



- Assemble a vinyl cap (S) onto each bag arm tube as shown in figure 17.
- Assemble two palnuts (G) onto the ends of the pivot rod using a hammer. See figure 17.

HINT: To ease assembly of the palnuts, place the bag on its side on a solid surface. With the bottom end of the pivot rod against the surface, tap a palnut onto the top end of the rod. Repeat for other end of rod.



FIGURE 17

STEP 16 - ATTACH ROPE

• Secure the rope to the center of the upper rear hopper tube as shown in figure 18.



FIGURE 18

STEP 17 - ATTACH HOPPER BAG

• To attach the hopper bag to the sweeper, slide the ends of the bag arm tubes into the ends of the hitch tubes and secure with two clevis pins (P) and hairpin cotters (M). See figure 19.



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FIGURE 19
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- Attach the bottoms of the hopper support straps to the clevis pins (N) in the lower hopper tubes, securing the straps with the previously assembled hair cotter pins (M). See figure 16.
- Tighten the nuts on the hopper mount clamps. See figure 16.



FIGURE 16

ATTACHING SWEEPER HITCH TO TRACTOR

- Place the tractor and sweeper on a flat level surface.
- Set the sweeper height adjustment handle to about the middle of its adjustment range.
- Attach the sweeper hitch to the tractor hitch, arranging the 3/4" spacers in one of six possible combinations as shown in GROUP A and GROUP B diagrams below.

IMPORTANT: To obtain the best performance from your sweeper, arrange the spacers so that the sweeper bag is approximately level with the ground and approximately 5" to 7" off the ground as shown in figure 20.



FIGURE 20

GROUP "A" - For vehicles with hitches having 8" to 10" ground clearance.



BLACK LINE IS TRACTOR HITCH



GROUP "B" - For vehicles with hitches having 10" to 13" ground clearance.



BLACK LINE IS TRACTOR HITCH



OPERATION

KNOW YOUR SWEEPER



Hopper Bag	Collects grass clippings, leaves and debris.
Hopper Rope	Permits dumping of hopper bag from driver's seat.
Windscreen	Helps prevent collected material from being blown out of hopper bag.
Bag Arm Tubes	Connects the hopper bag to the sweeper housing.
Pivot Rod	Allows hopper bag to tilt forward to dump material.
Height Adjustment Handle	Adjusts the operating height of the sweeper.
Height Adjustment Strap	Holds the height adjustment handle in position when locked.
Knob	Locks the height adjustment handle to the height adjustment strap.
Hitch Bracket	Connects the sweeper to the towing vehicle. Adjusts for various height tractor hitches.

HOW TO USE YOUR SWEEPER

BRUSH HEIGHT ADJUSTMENT

 To adjust your sweeper brushes to the best operating height, loosen the adjustment knob and push down on the height adjustment lever to raise the brush, or push up on the lever to lower the brush. See figure 20. Best adjustment is when the brush setting is 1/2" down into the grass. Always mow the grass to an even height before sweeping.

SWEEPING SPEED

 Try a starting speed of approximately 3 m.p.h. (third gear on most tractors). Depending on the conditions, it may be necessary to adjust the sweeping speed in order to achieve best results.

DUMPING OF SWEEPER

• Your sweeper can be dumped easily without getting off of the rider or tractor. Simply pull the rope forward to dump the hopper. Always empty hopper after each use.



CAUTION: Never attach the hopper rope to any part of your body or clothing! Never hold onto the rope while towing the sweeper! Attach the rope to the towing vehicle to keep it away from wheels and rotating parts.



CAUTION: Keep sweeper away from fire. Excessive heat can damage the brushes and hopper bag and could cause the bag and its contents to burn.

MAINTENANCE

CUSTOMER RESPONSIBILITIES

• Read and follow the maintenance schedule and the procedures listed in the maintenance section.

MAINTENANCE SCHEDULE Fill in dates as you complete regular service.	B	afore	ach us	SP 158	ven s	eason elore st	orage en two yes	15			Serv	/ice Da	tes		
Check for loose fasteners	Х														
Check for worn or damaged parts	Х			Х			1								
Lubricate brush shaft bearings			Х				li			1	ĺ	ĺ	ĺ	ĺ	
Lubricate wheel bearings				X			li		1	İ	İ	İ	İ	İ	
Clean Sweeper		Х			X		1								
Clean/Lubricate chain and sprockets						Х									

SCHEDULED MAINTENANCE

- Clean the sweeper after each use.
- Inspect for worn or damaged parts, such as brushes and wheels.
- Lubricate the brush shaft bearing twice a year with a few drops of light weight oil. See figure 21.



FIGURE 21

• Every two years, remove the wheels and clean the sprockets, chains and gears found inside the wheel housing. After cleaning, lubricate with an even coat of light grease. To remove the wheel, pop off the hub cap using a screwdriver and remove the lock nut and flat washer. See figure 22.



FIGURE 22

CLEANING

- Clean sweeper housing with a soft brush or cloth.
- Clean debris from hopper bag with a brush or broom.
- Remove any material which has wrapped around brushes or ends of brush shaft.

STORAGE



CAUTION: Before storing the sweeper, always empty the hopper bag to avoid spontaneous combustion.

- Clean the sweeper and hopper bag thoroughly to help prevent rust and mildew.
- To collapse the hopper bag for storage, remove the two hopper support rods from the rear of the hopper.
- Store in a dry area.

BRUSH REPLACEMENT

- **NOTE:** Brush replacement should be done one brush at a time.
- Remove the hopper bag from the sweeper.
- Loosen the hex bolts and lock nuts on two single brush retainers which clamp one brush to the double brush retainers. **Do Not loosen** or remove the bolts which fasten the double brush retainers to the brush shaft. See figure 23.
- Slide the brush out of the retainers, noting on which side of the brush the bristles overlap. See figure 23.
- Install new brush, making sure the bristles overlap on the same side of the brush as before. See figure 23.



SPROCKET, CHAIN AND PAWL SERVICE

IMPORTANT: Do not remove both wheels at the same time to avoid mixing of parts. (The R.H. and L.H. ratchet sprockets are not interchangeable.) **Make notes** on the position of washers and snap rings during disassembly.

- Remove the dust cover by removing the two rivets which fasten it to the wheel housing. (It is not necessary to remove the dust cover if you are only cleaning and lubricating the chain and sprockets.)
- Remove the retaining rings and washers which hold the sprockets onto the shafts.
- Remove the chain and both sprockets, holding them in position and sliding them off both of the shafts. (Look for the drive pin, which may fall out of the brush shaft when the ratchet sprocket is removed.) See figure 24.
- To reassemble, insert the drive pin through the hole at the end of the brush shaft. Make sure the pin slides back and forth easily in the shaft.
- Lightly grease both shafts and the chain, and fill the ratchet sprocket with grease. Assemble the chain with both sprockets back onto the shafts.
- Lightly grease the axle and then reassemble the wheel. The brushes should rotate **only** during forward rotation of the wheel. If the brushes are driven (rotated) by both forward and reverse rotation of the wheel, the drive pin is jamming in the ratchet gear. Disassemble and clean and lubricate the drive pin and ratchet gear.



FIGURE 24

TROUBLESHOOTING

Wheels skid when sweeping.	Brushes set too low.	Adjust height till brushes are 1/2" down into grass.
	Brushes are jammedWheels are jammed.	 Stop sweeper. Remove obstruction. Remove one wheel at a time to check for obstruction or damage. Refer to Service and Adjustments section.

PARTS

REPAIR PARTS FOR MODEL 486.24222 - 42" HIGH PERFORMANCE LAWNSWEEPER



REPAIR PARTS LIST FOR MODELS 486.24222 - 42" HIGH PERFORMANCE LAWNSWEEPER

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