

John Deere

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MODEL:

110 & 112 Lawn & Garden
S/n 161,772 and Up

MANUAL PREVIEW

OPERATOR'S
MANUAL



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JD-O-OMM45039

**110 AND 112
LAWN AND GARDEN
TRACTORS
(SERIAL NO.**

161,772-)

MANUAL PREVIEW

OPERATORS MANUAL

**110 AND 112 LAWN AND GARDEN
TRACTORS (SERIAL NO. 161,772-)**

OMM45039 B0 English

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**JOHN DEERE LAWN & GROUNDS CARE
DIVISION**

OMM45039 B0

**LITHO IN THE U.S.A
ENGLISH**

INTRODUCTION

For more than 132 years, John Deere has been a pioneer in the design and manufacture of quality farm equipment. Your Lawn and Garden Tractor not only embodies the experience gained through the years but has with it the sincere interest and backing of this organization.

This Lawn and Garden Tractor is manufactured to the traditionally high standards of John Deere. It has many quality features which have been designed with you, the customer, in mind.

Your dealer also is sincerely interested in your new tractor and has the desire to help you get the most value from it. After reading this manual thoroughly, you will find that you can do many of the regular service jobs quickly and easily. However, when in need of parts or major service, be sure to see your John Deere Consumer Products dealer.



This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Right-hand (R.H.) and left-hand (L.H.) reference is determined by standing at the rear of the tractor and facing the direction of forward travel.

The warranty on this tractor appears on your copy of the purchase order which you should have received from your dealer when you purchased the tractor.

When in need of parts, be prepared to give your dealer both the tractor and engine serial numbers. The tractor serial number is on the pedestal below the steering wheel. The engine serial number is on the engine shroud.

Locate the serial numbers now and record them in the space provided.

JOHN DEERE LAWN AND GARDEN TRACTOR

Tractor Model No. (110 or 112)
Tractor Serial No.
Engine Serial No.
Date of Purchase

CONTENTS

	Page
SPECIFICATIONS	1-3
OPERATION	4-10
SAFETY SUGGESTIONS	11
FUEL AND LUBRICANTS	12
LUBRICATION AND PERIODIC SERVICE	13-16
SERVICE	17-20
TROUBLE SHOOTING	21-22
STORAGE	23

or Call 800-443-0625

COMMON SPECIFICATIONS—CONTINUED

TRANSMISSION

Type..... Transaxle
 Gear Selections..... 4 Forward—1 Reverse

TRAVEL SPEEDS (@ 3600 RPM Engine Speed)

1st Gear..... Variable, .4 to 1.0 mph
 2nd Gear..... Variable, 1.3 to 2.9 mph
 3rd Gear..... Variable, 2.4 to 5.0 mph
 4th Gear..... Variable, 3.4 to 7.4 mph
 Reverse..... Variable, 1.8 to 3.3 mph

ELECTRICAL SYSTEM

Battery - 110 Tractor..... John Deere AM30094 24 amp-hr., 12-volt
 Battery - 112 Tractor..... John Deere AM31186 40 amp-hr., 12-volt
 Starter Switch..... Ignition Key & Solenoid
 Regulator Fuse..... SFE 14 Ampere

FILTERS

Air..... Dry Filter (AM31400)
 Gasoline..... In-Line Strainer

BRAKES

Type..... Double Acting, Pedal Operated
 Parking..... Hand Lock to Foot Brake

CLUTCH

V-Belt

STEERING

Enclosed Gear

WHEEL BEARINGS

Front..... Tapered Roller
 Rear..... Sealed Ball

	110 Tractor Only	110 and 112 Tractors		
	All Purpose Tires (GT-1)	High-Flotation Tires (GT-3)	Traction Tires (GT-4)	High-Flotation Tires (GT-5)
WHEEL TREAD				
Front.....	29 in.	30 in.	29 in.	30 in.
Rear.....	27 or 33 in.	27 or 33 in.	27 or 33 in.	28-1/2 or 31 in.
TIRE SIZES				
Front.....	4.80/4.00-8 2-ply	16x6.50-8 2-ply	4.80/4.00-8 4-ply	16x6.50-8 2-ply
Rear.....	6-12 2-ply	23x8.50-12 2-ply	23x8.50-12 2-ply	23x10.50-12 2-ply
TIRE INFLATION*				
Front.....	12 psi	6 to 16 psi	12 to 40 psi	6 to 16 psi
Rear.....	6 psi	5 to 10 psi	5 to 10 psi	5 to 10 psi
DIMENSIONS				
Wheel Base....	46 in.	46 in.	46 in.	46 in.
Over-all Length..	66-3/4-in.	66-3/4-in.	66-3/4-in.	66-3/4-in.
Over-all Height..	41 in.	41 in.	41 in.	41 in.
Over-all Width (min).....	34-1/2-in.	37 in.	35 in.	39 in.
(max).....	39 in.	41-1/2-in.	41-1/2-in.	41-1/2-in.
Turns Outside..	36 in. radius	34 in. radius	34 in. radius	33 in. radius

*Inflation will vary with attachment used.

NOTE: GT-6 Tire Specifications are the same as GT-3 Front and GT-4 Rear Specifications.

GT-7 Tire Specifications are the same as GT-4 Front and GT-5 Rear Specifications.

(Specifications and design subject to change without notice.)

SERVICE

REMOVING GRILLE



To remove grille for access to ignition points, carburetor, etc., partially open hood. Compress one side of grille slightly; then, slip forward and out. To install grille, partially open hood. Slip grille over one cowl edge, compress slightly and slip other side of grille over opposite cowl edge.

V-BELT CARE AND MAINTENANCE

The V-belts in your tractor transmit power by friction and a wedging action against the sheaves. All belts and sheaves wear with use. Normal wear can be recognized as even wear - both on the belt and sides of the sheave after many hours of service.

NOTE: A slight raveling of the belt covering does not indicate premature failure. Cut off the raveling if the covering peels at the lap.

IMPORTANT: Never pry belt over edge of sheave. This may rupture belt cords and shorten belt life. Place the belt in the sheave groove by hand.

SERVICING TRANSMISSION AND HYDRAULIC SYSTEM

Do not attempt to service or dismantle any part of the transmission or hydraulic system. See your John Deere Consumer Products dealer for all transmission and hydraulic service.

CLEANING V-BELTS

Clean belts by wiping them with a clean cloth. Immediately wipe off any spilled oil or grease. Avoid use of solvents since this will soften the materials and cause the clutch to grab.

Do not use belt dressings. Dressings often give only temporary gripping action while softening the belt and causing eventual deterioration, and shortening of the belt life. Dressings will cause a "grabby" clutch.



CAUTION: Do not attempt to clean the belts while tractor is running.

ELECTRICAL SYSTEM

Replacing Fuse in Regulator



Reversing cable connections on the battery or reversing the cable connections from a booster battery or battery charger will reverse battery polarity and cause regulator fuse to "blow." This protects the regulator from damage.

If the fuse "blows," connect the cables correctly before installing a new fuse. Connect the positive cable to the positive (+) battery terminal; connect the ground cable to the negative (-) battery terminal. When the fuse is "blown," the battery will not charge and will eventually "run down" if a new fuse is not installed.

Use only an SFE 14 ampere fuse.

As an added precaution, always disconnect the connector from the regulator before using a charger or booster battery, or if welding is done on the tractor.

FUEL SYSTEM

Adjusting Carburetor



110 Tractor

CAUTION: Do not touch cylinder head or muffler shield if tractor engine has been running.

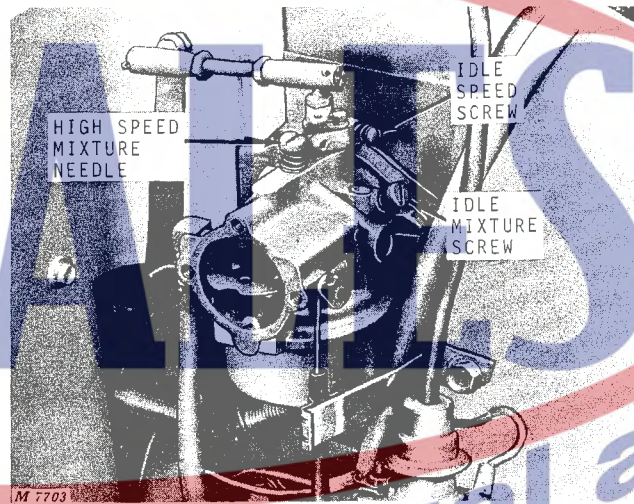
If, after a period of time, the engine misses, backfires, surges or starts hard, carburetor adjustment may be required.

Idle adjustment and high speed adjustment must be made at the same time as each affects the other. Adjust as follows:

1. Turn high speed mixture needle clockwise until closed. Close finger tight only. Then open one and one-half turns.
2. Turn idle mixture screw clockwise until closed. Close finger tight only. Then open two complete turns.
3. Start engine and raise throttle lever on dash panel to "FAST" position. Allow engine to warm up.
4. Turn high speed mixture needle 1/8 turn each time, clockwise or counterclockwise, until engine runs smoothly at full throttle. Keep needle position slightly on the rich side (open) when operating tractor with power driven equipment such as the mower or snow thrower.
5. Move throttle lever to "slow" position and turn idle mixture screw 1/8 turn each time,



112 Tractor with Tecumseh Engine



112 Tractor with Kohler Engine

clockwise or counterclockwise, until engine idles smoothly.

6. Advance throttle lever quickly to check for uniform acceleration. If engine misses, gas-air mixture is too lean. Turn high speed mixture needle counterclockwise until positive acceleration can be obtained. If excess exhaust smoke is noticed, mixture is too rich. Readjust idle mixture screw, if necessary until good balance is achieved and engine idles smoothly between 1200 and 1700 rpm. Idle speed screw adjusts the speed at which the engine idles. This is factory-adjusted and will not normally require adjustment. Leave all other adjustments of carburetor and governor to your John Deere serviceman.