

10/2 AMP BATTERY CHARGER



JOHN DEERE

OPERATORS MANUAL 10/2 AMP BATTERY CHARGER

OMTY21534 F8 English

JOHN DEERE MERCHANDISE DIVISION
OMTY21534 F8

LITHO IN THE U.S.A.
ENGLISH



Introduction

Thank you for purchasing a John Deere product.

Read this manual carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage.

This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

Measurements in this manual are U.S. customary units and their metric equivalents.

Right-hand and left-hand sides are determined by facing in the direction of forward travel.

Write Identification numbers in the Specifications section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. If this manual is kept on the machine, also file the identification numbers in a secure place off the machine.

Warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.



All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

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Safety

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE SAFETY INSTRUCTIONS –

This manual contains important safety and operating instructions for battery charger Model TY6170 10/2 AMP Battery Charger

Do not expose charger to rain or snow.

Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.

To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.

An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If extension cord must be used, make sure:

- That pins on plug of extension cord are the same number, size, and shape as those of plug on charger;
- That extension cord is properly wired and in good electrical condition; and
- That wire size is large enough for AC ampere rating of charger as specified in the following chart;

RECOMMENDED MINIMUM AWG SIZE FOR EXTENSION CORDS				
AC Input Rating Amperes	AWG Size of Cord			
	Length of Cord			
	25 ft. (7.63 m)	50 ft. (15.25 m)	100 ft. (30.50 m)	150 ft. (45.72 m)
2	18 ga.	18 ga.	16 ga.	14 ga.

Do not operate charger with damaged cord or plug - replace them immediately.

Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified electrical technician.

Do not disassemble charger; take it to a qualified electrical technician when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.

To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.



WARNING - RISK OF EXPLOSIVE GASES.

WORKING IN VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT EACH TIME BEFORE USING YOUR CHARGER, YOU READ THIS MANUAL AND FOLLOW THE INSTRUCTIONS EXACTLY.

To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of battery. Review cautionary marking on these products and on engine.

PERSONAL PRECAUTIONS

Someone should be within range of your voice or close enough to come to your aid when you work near a lead-acid battery.

Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.

Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.

If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.

NEVER smoke or allow a spark or flame in vicinity of battery or engine.

Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.

Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead-acid battery. A lead-acid battery can produce a short-circuit current high enough to weld a ring or the like to metal, causing a severe burn.

Use charger for charging a LEAD-ACID battery only. It is not intended to supply power to a low-voltage electrical system other than in automotive or tractor applications. Do not use battery charger for charging dry-cell batteries that are commonly used with home appliances. These batteries may burst and cause injury to persons and damage to property.

NEVER charge a frozen battery.

PREPARING TO CHARGE

If necessary to remove battery from vehicle to charge, always remove grounded terminal from battery first. Make sure all accessories in the vehicle are off, so as not to cause an arc.

Be sure area around battery is well ventilated while battery is being charged. Gas can be forcefully blown away by using a piece of cardboard or other non-metallic material as a fan.

Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.

Add distilled water in each cell until battery acid reaches level specified by battery manufacturer. This helps purge excessive gas from cells. Do not overfill. For a battery without cell caps, carefully follow manufacturer's recharging instructions.

Study all battery manufacturer's specific precautions such as removing or not removing cell caps while charging and recommended rates of charge.

Determine voltage of battery by referring to car owner's manual and make sure that output voltage selector switch is set at correct voltage. If charger has adjustable charge rate, charge battery initially at lowest rate.

CHARGER LOCATION

Locate charger as far away from battery as DC cables permit.

Never place charger directly above battery being charged; gases from battery will corrode and damage charger.

Never allow battery acid to drip on charger when reading gravity or filling battery.

Do not operate charger in a closed-in area or restrict ventilation in any way.

Do not set a battery on top of charger.

DC CONNECTION PRECAUTIONS

Connect and disconnect DC output clamps only after setting any charger switches to off position and removing AC cord from electric outlet. Never allow clamps to touch each other.

Attach clamps to battery posts and twist or rock back and forth several times to make a good connection. This tends to keep clamps from slipping off terminals and helps to reduce risk of sparking.

FOLLOW THESE STEPS WHEN BATTERY IS INSTALLED IN VEHICLE. A SPARK NEAR BATTERY MAY CAUSE BATTERY EXPLOSION. TO REDUCE RISK OF A SPARK NEAR BATTERY:

- a. Position AC and DC cords to reduce risk of damage by hood, door, or moving engine part.
- b. Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.
- c. Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has a larger diameter than NEGATIVE (NEG, N, -) post.
- d. Determine which post of battery is grounded (connected) to the chassis. If negative post is grounded to chassis (as in most vehicles), see item e. If positive post is grounded to the chassis, see item f.
- e. For negative-grounded vehicle, connect POSITIVE (RED) clamp from battery charger to POSITIVE (POS, P, +) ungrounded post of battery. Connect NEGATIVE (BLACK) clamp to vehicle chassis or engine block away from battery. Do not connect clamp to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.

f. For positive-grounded vehicle, connect NEGATIVE (BLACK) clamp from battery charger to NEGATIVE (NEG, N, -) ungrounded post of battery. Connect POSITIVE (RED) clamp to vehicle chassis or engine block away from battery. Do not connect clamp to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.

g. When disconnecting charger, turn switches to off, disconnect AC cord, remove clamp from vehicle chassis, and then remove clamp from battery terminal.

h. See operating instructions for length of charge information.

FOLLOW THESE STEPS WHEN BATTERY IS OUTSIDE VEHICLE. A SPARK NEAR THE BATTERY MAY CAUSE BATTERY EXPLOSION. TO REDUCE RISK OF A SPARK NEAR BATTERY:

a. Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has a larger diameter than NEGATIVE (NEG, N, -) post.

b. Attach at least a 24-inch (610 mm) long 6-gauge (AWG) insulated battery cable to NEGATIVE (NEG, N, -) battery post.

c. Connect POSITIVE (RED) charger clamp to POSITIVE (POS, P, +) post of battery.

d. Position yourself and free end of cable as far away from battery as possible - then connect NEGATIVE (BLACK) charger clamp to free end of cable.

e. Do not face battery when making final connection.

f. When disconnecting charger, always do so in reverse sequence of connecting procedure and break first connection while as far away from battery as practical.

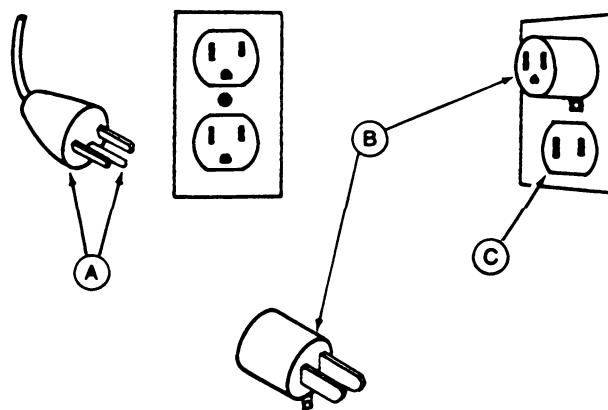
g. A marine (boat) battery must be removed and charged on shore. To charge it on board requires equipment specially designed for marine use.

GROUNDING AND AC POWER CORD CONNECTION INSTRUCTIONS —

Charger should be grounded to reduce risk of electric shock. Charger is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.



DANGER:- Never alter AC cord or plug provided - if it will not fit outlet, have proper outlet installed by a qualified electrician. Improper connection can result in a risk of an electric shock.



This battery charger is for use on a nominal 120-volt circuit, and has a grounding plug that looks like the plug (A). A temporary adapter, which looks like the adapter (B) may be used to connect this plug to a two-pole receptacle (C) if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician.



DANGER: -Before using adapter as illustrated, be certain that center screw of outlet plate is grounded. The green-colored rigid ear or lug extending from adapter must be connected to a properly grounded outlet - make certain it is grounded. If necessary, replace original outlet cover plate screw with a longer screw that will secure adapter ear or lug to outlet cover plate and make ground connection to grounded outlet.

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



AB6:T81389 053:ALERT 160687

Follow recommended precautions and safe operating practices.



UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

 **DANGER**

 **WARNING**

 **CAUTION**

AB6:TS187 053: SIGNAL 071085

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

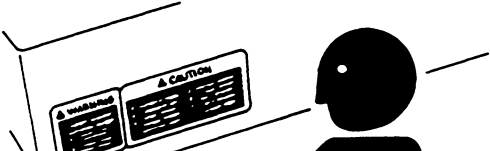


FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



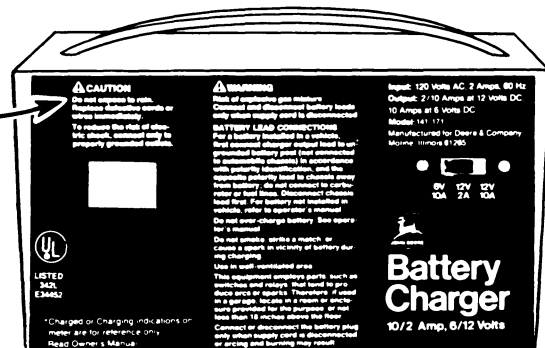
The illustration shows a black silhouette of a person sitting and reading a large manual. To the left of the person is a control panel or machine interface with two rectangular safety signs. The sign on the left is labeled 'WARNING' and the one on the right is labeled 'CAUTION'. Both signs contain several lines of illegible text. The entire scene is enclosed within a simple rectangular frame.

AB6;TS201 053;READ 230487

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



To reduce the risk of electric shock, connect only to properly grounded outlets.



5 15666, 0005

WARNING

Risk of explosive gas mixture
Connect and disconnect battery leads
only when supply cord is disconnected.

BATTERY LEAD CONNECTIONS

For a battery installed in a vehicle,
first connect charger output lead to un-
grounded battery post (not connected
to automobile chassis) in accordance
with polarity identification, and the
opposite polarity lead to chassis away
from battery, do not connect to carbure-
tor or fuel lines. Disconnect chassis
lead first. For battery not installed in
vehicle, refer to operator's manual.

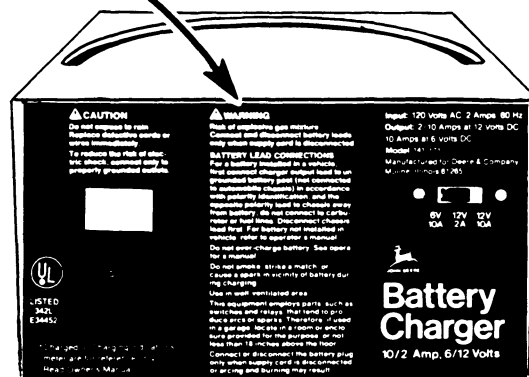
Do not over-charge battery. See opera-
tor's manual.

Do not smoke, strike a match, or
cause a spark in vicinity of battery dur-
ing charging.

Use in well-ventilated area.

This equipment employs parts, such as
switches and relays that tend to pro-
duce arcs or sparks. Therefore, if used
in a garage, locate in a room or enclo-
sure provided for the purpose, or not
less than 18 inches above the floor.

Connect or disconnect the battery plug
only when supply cord is disconnected,
or arcing or burning may result.



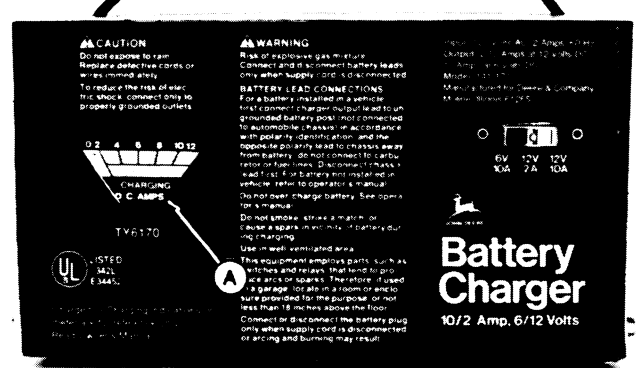
1A2;TY15393 Y70;85SA B 230388

Controls and Instruments

AMMETER

The ammeter (A) indicates the amount of amperage flowing into the battery. The meter has two zones marked "charging" and "charged". These zones are for reference only. See "Operating the Charger" for more accurate method of determining charging rates.

Certain battery conditions such as cold, sulphated, or damaged batteries can cause meter to read incorrectly. When the charger is set on 2 amps, the meter will always read in the "charged" or OK zone, even if the charger is still charging the battery.



1A2;TY15394 Y70;85CI A 230388

CONTROL SWITCH

The control switch (A) has 3 different settings:

1. 6 volt/10 amp—used for charging automotive type batteries for short periods of time.
2. 12 volt/2 amp—used for charging 12 volt batteries for longer periods of time or smaller batteries that cannot tolerate higher charge rates.
3. 12 volt/10 amp—used to charge 12 volt batteries for shorter periods of time.

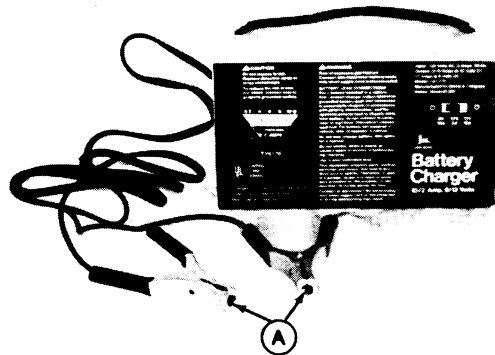


1A2;TY15395 Y70;85CI B 230388

Operating the Charger

WARNING: Switches and relays in this charger may arc. If used in a garage, locate charger at least 18-inches (457.2 mm) above floor or in a special room or enclosure.

IMPORTANT: Carefully position battery clamps (A) so they are not touching each other or any other metal before operating charger.



1A2;TY15396 Y70;85OP A 230388

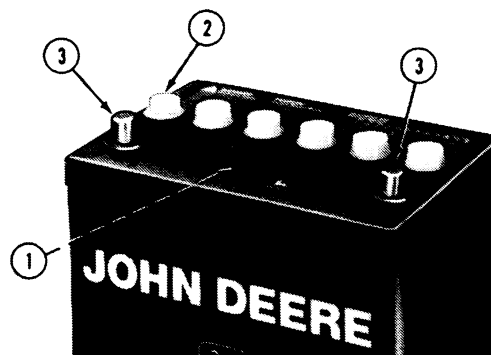
PREPARE THE BATTERY

1. Before charging, make certain battery has enough electrolyte in each cell to cover top of plates.

2. If battery is equipped with vented caps, make certain they are properly installed.

CAUTION: Be careful to keep corrosion from coming in contact with eyes. Never smoke in vicinity of battery.

3. Clean battery terminals.



1A2;TY6589 Y05;10AMP I 280581

CAUTION: Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

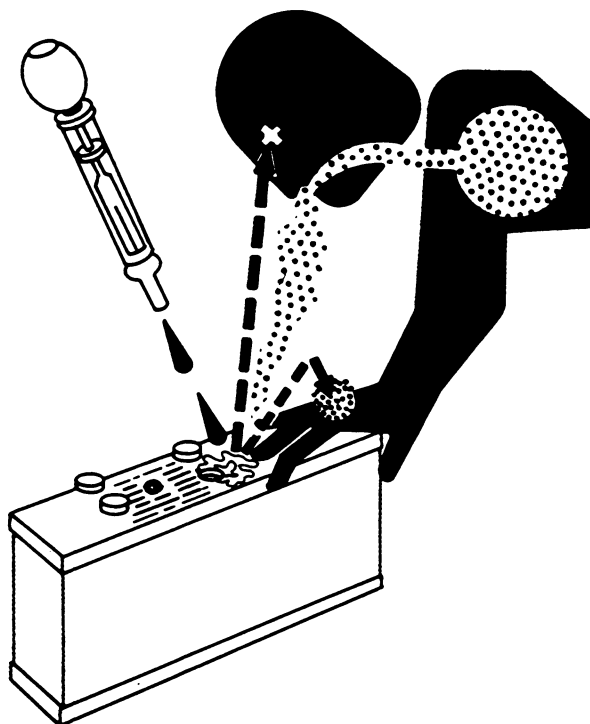
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10—15 minutes. Get medical attention immediately.

If acid is swallowed:

1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.



AB6;TS203 053;ACID1 230388

CHECK BATTERY SPECIFIC GRAVITY

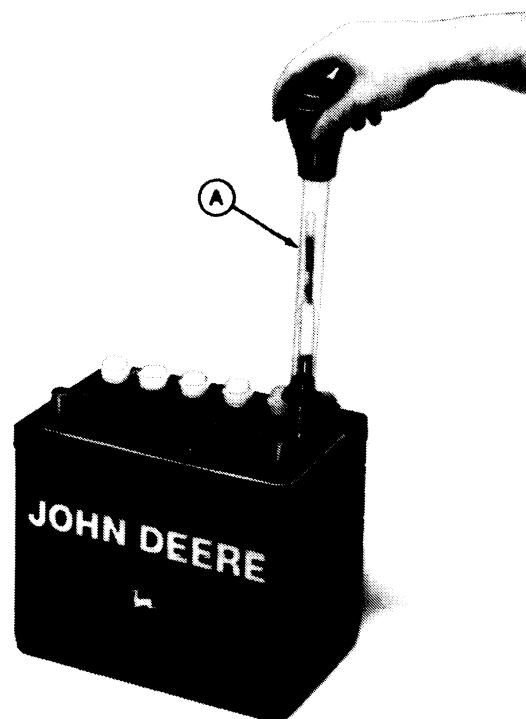
Use a hydrometer (A) to determine state of charge. Refer to chart to obtain percent of charge.

Hydrometer reading	Battery test reading
Specific gravity	Percent of charge
1.260	100%
1.220	75%
1.180	50%
1.140	25%
1.100	0%

NOTE: Any battery 25% charged or lower may readily freeze and should be charged at once.

IMPORTANT : If battery has just been charged, a surface charge may exist creating a false or higher than normal reading.

To eliminate surface charge, the battery must be discharged for 3 to 5 minutes by creating a load such as turning lights on.



1A2;TY6590 Y05;10AMP J 230388



CAUTION: Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Always remove grounded (-) battery clamp first and replace it last.

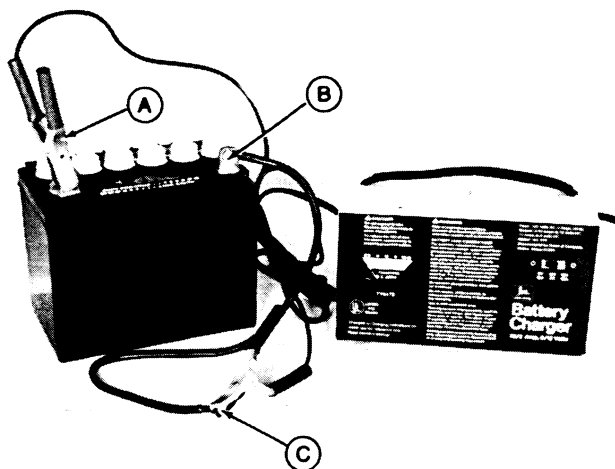


AB6;TS204 053;EXPLO1 230388

CONNECT CHARGER TO BATTERY (NOT INSTALLED)

CAUTION: Remove from boat before charging. Do not physically touch charger clamp and battery post simultaneously. Injury can result from electrical shock.

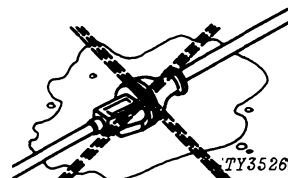
1. Connect red positive charger clamp (A) to the positive (+) battery post.
2. Attach at least a 24-inch (610 mm) long 6-gauge (AWG) insulated battery cable (B) to negative (-) battery post.
3. Attach black negative charger clamp (C) to battery cable.
4. Set control switch according to battery type and charging rate.



1A2;TY15397 Y70;85OP B 230388

CAUTION: If charger is to be plugged into extension cord, refer to the following chart to determine proper wire gauge.

Be sure the connection between the power cord and the extension cord is not exposed to water.



AC Input Amperes	Length of Cord	AWG Size of Cord
2	25 ft. (7.63 m)	18 ga.
	50 ft. (15.25 m)	18 ga.
	100 ft. (30.50 m)	16 ga.
	150 ft. (45.72 m)	14 ga.

5. Plug in power cord to a properly grounded 120-volt AC outlet.

IMPORTANT: If sparking occurs between charger clamp and battery post when connecting the clamps, unplug charger immediately; clamp is being connected to wrong post. Check battery and wiring to correctly identify positive and negative battery post.

1A2;TY3526 Y05;10AMP L 280581

CONNECT CHARGER TO BATTERY (INSTALLED)

CAUTION: Do not physically touch charger clamp and battery post simultaneously. Injury can result from electrical shock.

1. Connect red positive charger clamp to the positive (+) battery post.
2. Attach black negative charger clamp to clean, well grounded area on chassis away from battery.

IMPORTANT: Make certain to check vehicle to determine if electrical system is positive or negative grounded. Connect clamps accordingly.

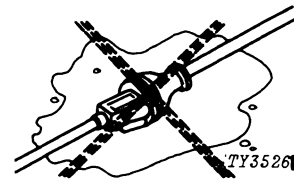
3. (Not illustrated) Set control switch to 6-volts or 12-volts, according to battery type.



1A2:TY6610 Y05;10AMP M 230388

CAUTION: If charger is to be plugged into extension cord, refer to the following chart to determine proper wire gauge. Be sure the connection between the power cord and the extension cord is not exposed to water.

AC Input Amperes	Length of Cord	AWG Size of Cord
2	25 ft. (7.63 m)	18 ga.
	50 ft. (15.25 m)	18 ga.
	100 ft. (30.50 m)	16 ga.
	150 ft. (45.72 m)	14 ga.



4. Plug in power cord to properly grounded 120-volt AC outlet.

IMPORTANT: If sparking occurs between charger clamp and battery post when connecting the clamps, unplug charger immediately; clamp is being connected to wrong post. Check battery and wiring to correctly identify positive and negative battery post.

1A2:TY3526 Y05;10AMP N 230388

CHARGE RATE

The charging rate will be dependent on the amount of AC voltage received from the outlet (approximately 117–volts is normal) and on the internal condition of a chargeable battery as follows:

Hydrometer reading	Battery test reading
Specific gravity	Percent of charge
1.260	100%
1.220	75%
1.180	50%
1.140	25%
1.100	0%

Amperage Requirements

Discharged battery – Approx. 10 to 12 amperes.

Half–charged battery – Approx. 8 to 10 amperes.

Fully–charged battery – Approx. 5 to 6 amperes.

A very cold battery, or one that is sulfated, will show a lower rate.

Y70:85OP C 230388

CHARGING TIME

To determine the approximate amount of time required to charge the battery, use the following formula:

$$\frac{\text{Amp Hour Size of Battery} \times \text{Percent of Charge Required}}{\text{Amp Rating of Charger}} = \text{Time to Charge}$$

For example: 60 amp hour battery that is 25% charged would require 75% charge:

$$\frac{60 \text{ Amp Hour} \times .75}{10 \text{ Amp Charger}} = 4.5 \text{ Hours}$$

Add 25% to the time for battery efficiency and charging rate taper.

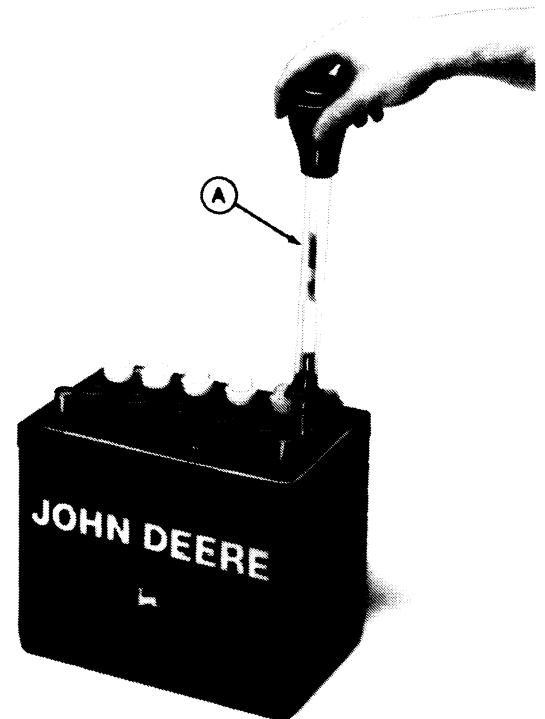
Y70:85OP D 230388

A small battery can be completely charged in 3 to 4 hours and a larger battery in 8 to 12 hours.

After charging battery, use a hydrometer (A) to determine the specific gravity. Refer to "CHECK BATTERY SPECIFIC GRAVITY".

If a higher percent of charge is desirable, put the charger back on the battery until desired level is reached.

IMPORTANT : Do not leave charger on battery for indefinite long periods. Overcharging will boil battery electrolyte and can damage battery.

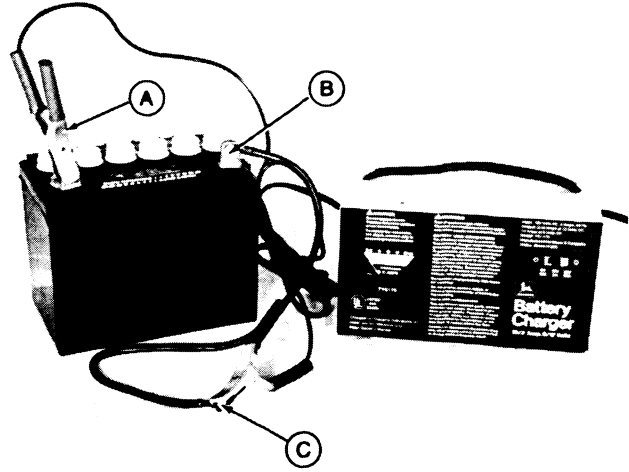


1A2:TY6590 Y70:85OP E 230388

STOP AND DISCONNECT CHARGER

⚠ CAUTION: Do not remove charger clamps from battery terminals while charger is operating. Sparks could ignite gases and cause an explosion.

1. When charging is complete, disconnect power cord from AC outlet.
2. Remove clamps from battery.



1A2;TY15397 Y70;85OP F 230388

Trouble Shooting

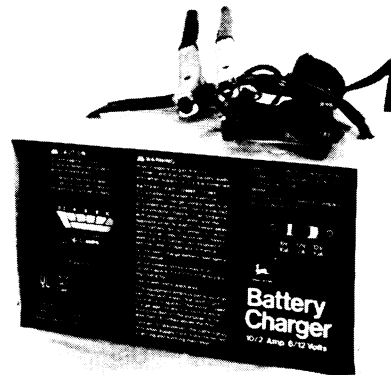
Symptom	Problem	Solution
Charger Operating Erratically or Not Operating	Battery has dead cells.	Replace Battery.
	Wire connections loose, frayed or broken.	See your John Deere Dealer.
	Cracked or broken parts.	See your John Deere Dealer.
No Ammeter Reading	Bad connection between battery and charger.	Check for correct and secure connections.
	Low input voltage.	Check AC voltage.
	Using wrong extension cord.	Check for correct size.
	Faulty ammeter.	See your John Deere Dealer.
High Ammeter Reading	Battery clamps reversed.	Make correct connection to battery.
	Battery has dead cells.	Replace battery.
Charger Blows Fuses	Transformer shorted.	See your John Deere Dealer.
	Rectifiers shorted.	See your John Deere Dealer.

Storing the Charger

Clean battery clamps each time the charger is used to prevent corrosion from battery electrolyte.

When the charger is not being used, wrap cords and secure with heavy rubber bands to prevent damage.

Store the charger in a clean area protected from dirt, moisture and damage.



1A2;TY15391 Y70;85ST A 230388

Specifications

Type	10/2 Amp Battery Charger
Maximum Amperage Input	2-Amps
Maximum Amperage Output	10-Amps
Voltage Input	115-Volts
Voltage Output	6 or 12-Volts
Cycles (Hz)	60
Power Cord	18 gauge, 3 conductors 8 ft. (2.4 m) long
Charging Cables	16 gauge, 2 conductors 6 1/2 ft. (1.9 m) long
Dimensions	
Width	9 1/8-inches (232 mm)
Height (with handle)	7-inches (178 mm)
Depth	6 1/2-inches (165 mm)
Weight	11 pounds (4.99 kg)

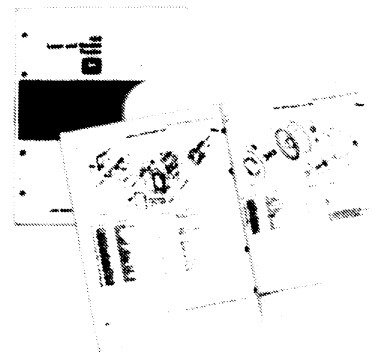
(Specifications and design subject to change without notice.)

Y70:85SP A 230388

John Deere Service Literature Available

PARTS CATALOG

The parts catalog lists service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.

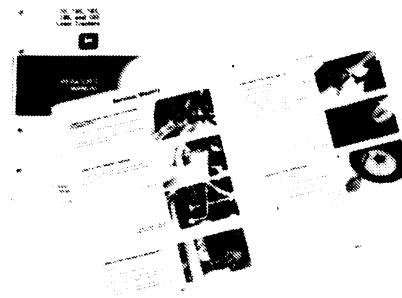


AB6:TS189 053;PARTS 271185

OPERATOR'S MANUAL

The operator's manual provides safety, operating, maintenance, and service information about John Deere machines.

An extra copy of the operator's manual is important if the copy furnished with your machine is misplaced.

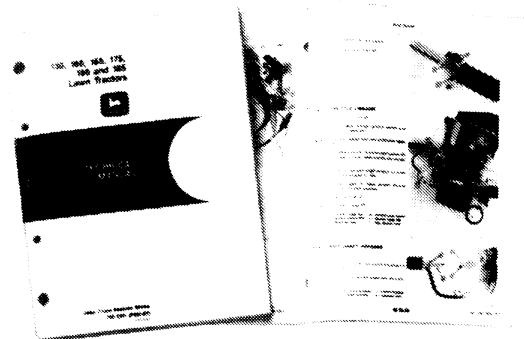


AB6:TS190 053;OM 211287

TECHNICAL AND SERVICE MANUALS

Technical and service manuals are service guides for your machine. Included in the manual are specifications, diagnosis, and adjustments. Also illustrations of assembly and disassembly procedures, hydraulic oil flows, and wiring diagrams.

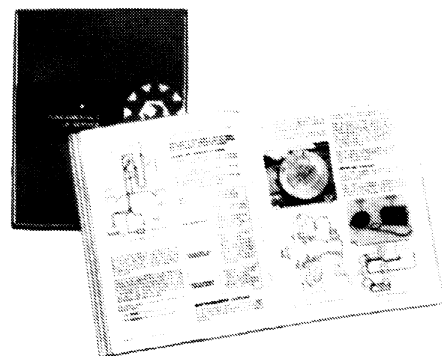
Component technical manuals are required for some products. These supplemental manuals cover specific components.



AB6:TS224 053;TM 271185

FUNDAMENTALS OF SERVICE MANUALS

These basic manuals cover most makes and types of machines. FOS manuals tell you how to *service* machines. Each manual starts with basic theory and is fully illustrated with colorful diagrams and photographs. Both the “whys” and “hows” of adjustments and repairs are covered in this reference library.



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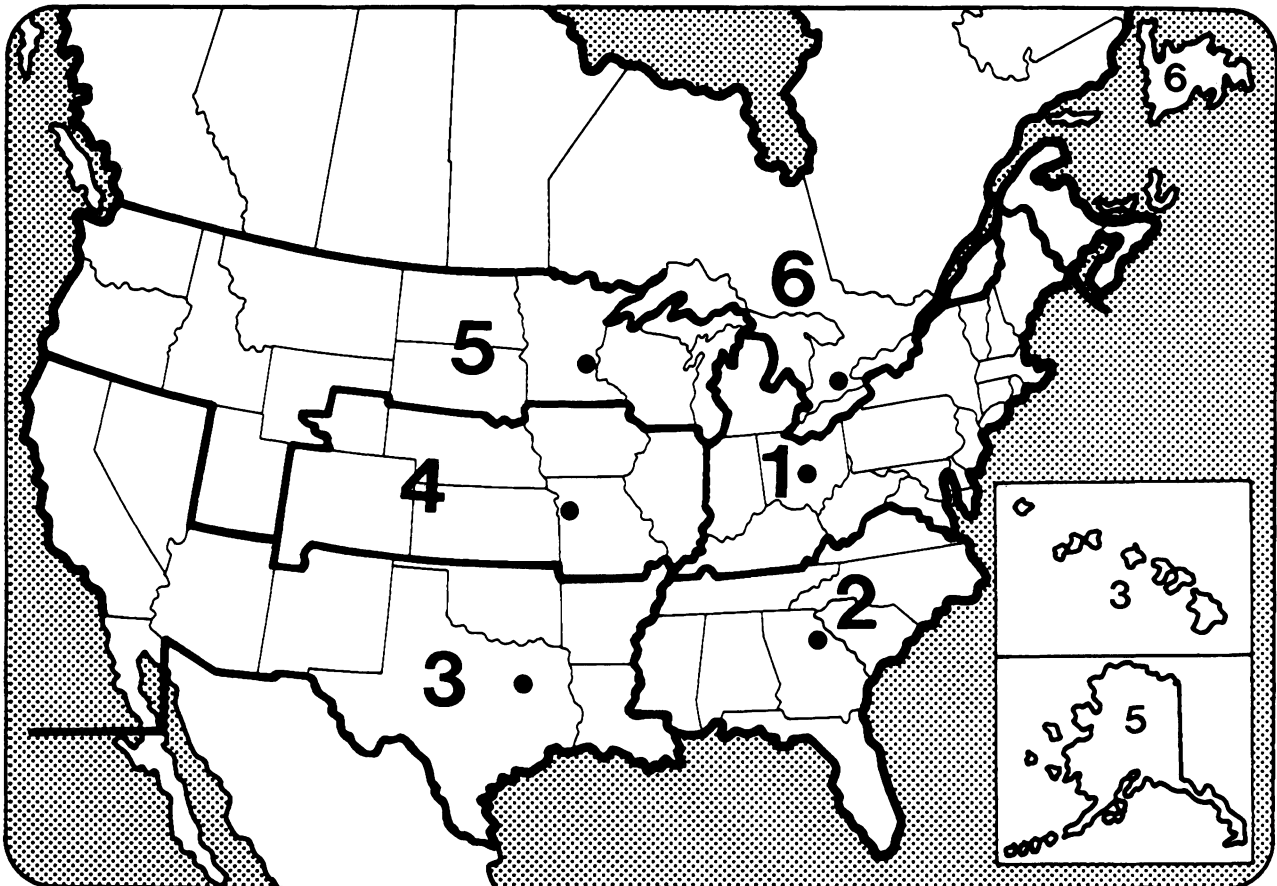
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