

**100G
SERIAL NO. (044201-)
200G SERIAL
NO. (041553-) AND
220G TRIMMER/EDGERS**



JOHN DEERE

OPERATORS MANUAL

100G SERIAL NO. (044201-) 200G SERIAL NO.
(041553-) AND 220G TRIMMER/EDGERS

OMTY20856 I6 English

**JOHN DEERE MERCHANDISE DIVISION
OMTY20856 I6**

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.



This machine is of metric design. Measurements in this manual are metric with the customary U.S. measurement following. Use only metric hardware and tools as specified.

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

Write product 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.

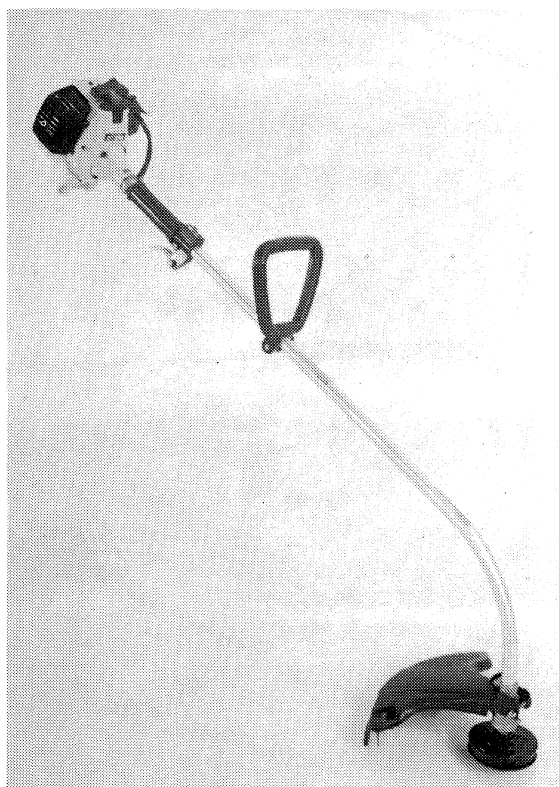
The warranty does not cover:

A—Products which have been altered or modified in ways not approved by John Deere, including setting fuel delivery above specifications or otherwise over-powering of products.

B—Depreciation or damage caused by normal wear, accident, lack of reasonable and necessary maintenance as specified in this manual, improper maintenance, improper protection in storage, or improper use or abuse.

C—Normal maintenance and replacement of service items such as filters, spark plugs, belts, brake linings, cutting blades and hoses unless such items are defective.

D—Transportation, mailing and service call charges for warranty service.



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.

2A2;TY1516 9 Y05;81IFC A 180986

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Safety

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.



AB6;T81389 053;ALERT 071085

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

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Follow recommended precautions and safe operating practices.

Keep safety signs in good condition. Replace missing or damaged safety signs.



AB6;TS188 053;SIGNS 071085

⚠ WARNING

Read and understand all safety messages in operator's manual before using this machine.
Improper use of this product can cause bodily injury.
Do not use metal blades on this machine.
Keep shields in place at all times.
Always wear eye protection when operating this machine.
Permit only the operator in the area of operation

Warning Decal Located on Drive Shaft Housing

2A2;TY1517 0 Y05;;81SA A 230986

PROTECT PEOPLE AND PETS

Keep people and pets out of the area where you are using trimmer.

Do not let children or inadequately trained persons operate trimmer.

Never leave trimmer unattended.

Never hand trimmer to another person while the engine is running.



2A2;TY1517 1 Y05;81SA D 080986

PREPARE TRIMMING AREA

Clear the work area.

Check for loose or fallen branches.

Clear the area of people and pets.



2A2;TY1412 7 Y05;62SA D 170186

LEARN MACHINE SAFETY

Carefully read this manual. Learn how to operate the machine and how to use the controls properly.

Do not let anyone operate this machine without proper instruction.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



AB6;TS183 053;READ2 080785

OPERATE TRIMMER SAFELY

Be alert. Do not use trimmer when tired.

Keep hand grip and loop clean and dry.

Hold trimmer firmly with both hands.

Maintain a solid footing.

Work slowly, plan your moves.

Move trimmer in a sweeping motion away from your body.
Never draw trimmer towards you.

Never leave trimmer unattended.

Do not reach to make a cut.

Do not run engine in an enclosed area. Exhaust gas contains carbon monoxide, an odorless and deadly gas.



2A2;TY1517 2 Y05;;81SA E 080986

CUTTING

When operating trimmer, use shield and grip "D" handle and rubber grip securely.

Be sure all parts are secure on rotating head.

Always cut so trimmings will be discharged away from you.

Do not force trimmer. It will do the job better and safer at the rate for which it was designed.

Do not overreach. Keep proper footing and balance.



2A2;TY1517 3 Y05;;81SA F 080986

HANDLE FUEL SAFELY—AVOID FIRES

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.



AB6;TS185 053;FIRE1 240785

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguishers handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



AB6;TS186 053;FIRE2 080785

PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.



AB6;X7662 053;NOISE 270886

WEAR PROTECTIVE CLOTHING

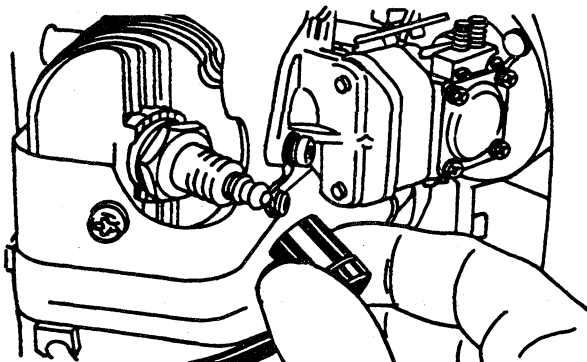
Wear fairly tight clothing. and safety equipment.



AB6;TS184 053;WEAR2 080785

SERVICE TRIMMER SAFELY

Shut engine off and remove spark plug wire before servicing.



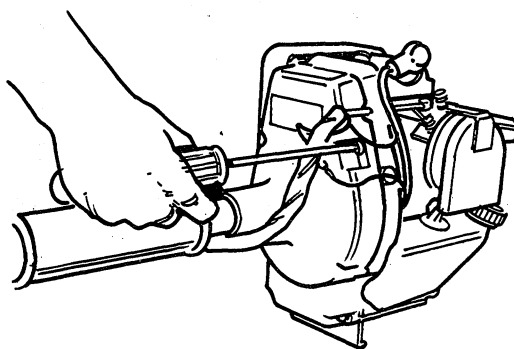
2A2;TY1412 4 Y05;;812SA G 080986

PRACTICE REGULAR MAINTENANCE

Keep all parts in good condition and fastened in place.

Fix damage immediately. Replace worn or broken parts.

If you hit an object while trimming, stop the trimmer. Fix damage before you operate again.



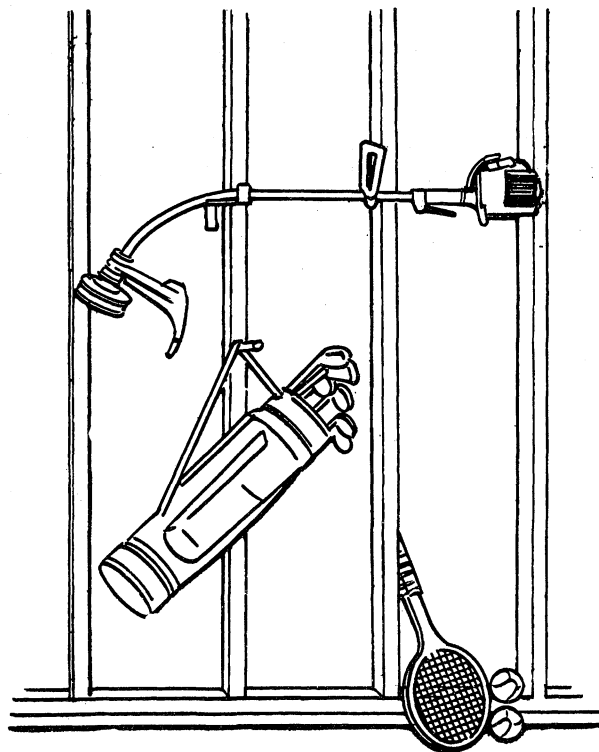
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STORE TRIMMER PROPERLY

Store trimmer indoors in a high, dry, locked-up place, out of reach of children.

Put John Deere Gasoline Storage Stabilizer (TY6295) or its equivalent in fuel tank.

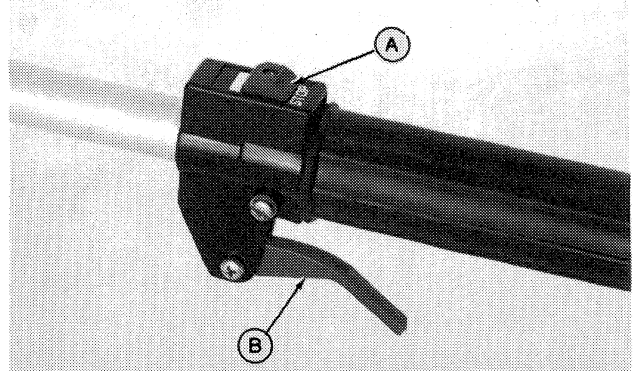
Do not store trimmer in an enclosure where fuel fumes may accumulate or reach an open flame or spark.



2A2;TY1517 5 Y05;;81SA I 080986

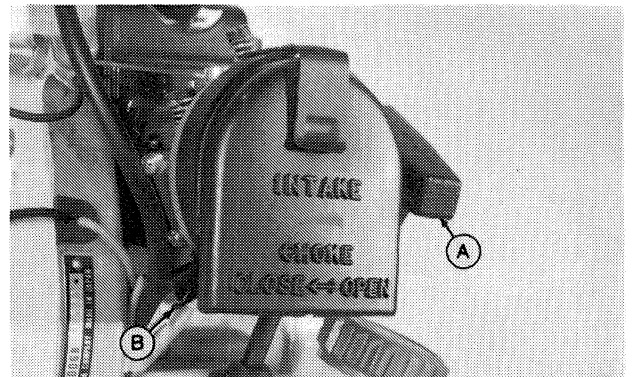
Controls

A—Engine Switch
B—Throttle Trigger



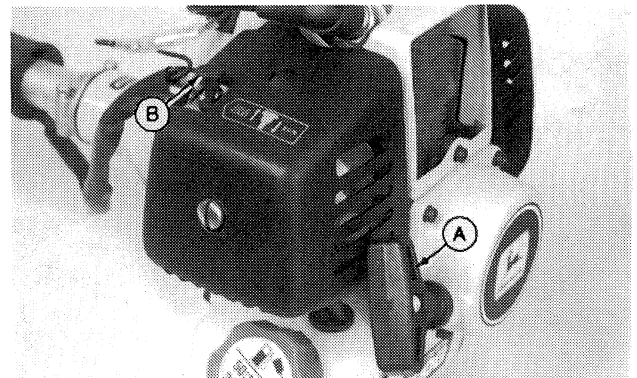
2A2;TY1152 3 Y05;81CT A 180986

100G and 200G Trimmers



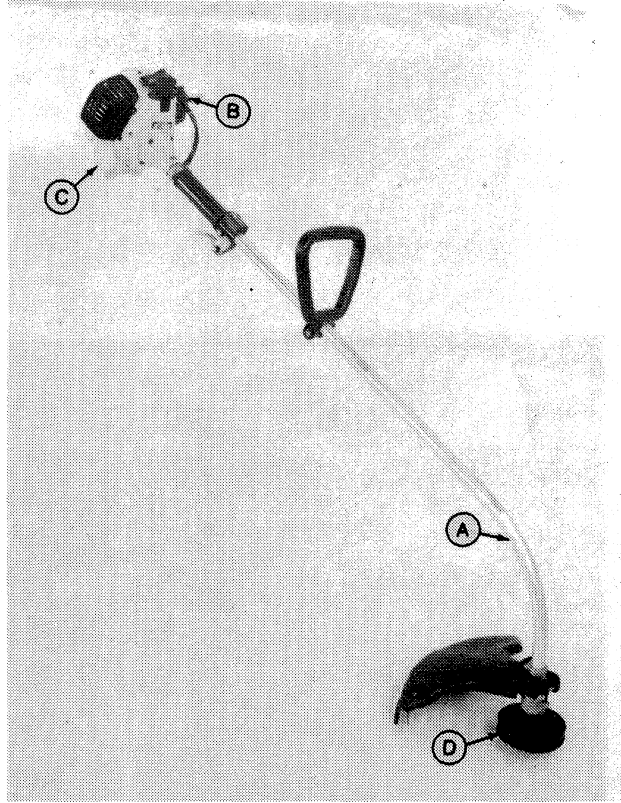
220G Trimmer

A—Recoil Starter
Handle
B—Choke Control



2A2;TY1517 6 TY1512 5 Y05;81CT B 180986

Prestarting Check



Check	When	Reference	Section
A—Drive Shaft Housing	50 Hours	Checking Drive Shaft Housing	Service/50 Hours
B—Air Cleaner	25 Hours	Cleaning Air Filter Element	Service/25 Hours
C—Fuel Level	As Necessary	Filling Fuel Tank	Operation
D—Cutting Head	As Necessary	Install Cutting Line	Service/As Necessary
Inspect for loose or missing parts	Daily		

Operation



CAUTION: DO NOT operate trimmer without safety shield.

Wear safety goggles or safety glasses when cutting. Examine the area to be cut. Pick up and dispose of any debris—wire, glass, stone, etc.

Keep all persons and pets at a safe distance from work area.

Cut to your right side so the trimmer will sling particles away from you.

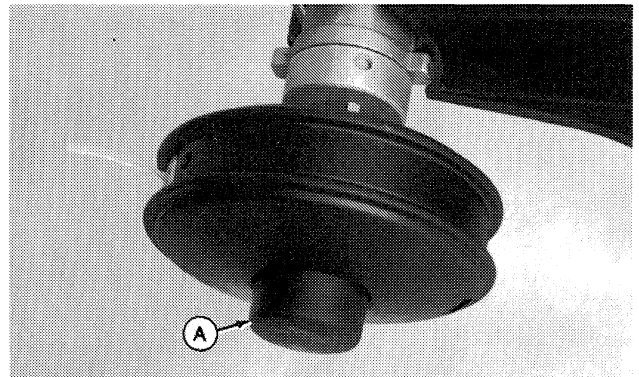
Y05;;810P A 080986

INSPECT CUTTING LINE

1. Check cutting line for frayed end or short line length, add cutting line if necessary. (See installing Cutting Line in Service As Necessary section).

2. Manually advance line, by depressing tap spool (A) and pulling on cutting line.

Length of cutting line should be 127 mm (5 in.) for the 100G, 152 mm (6 in.) for the 220G, and 178 mm (7 in.) for the 200G.



2A2;TY1517 8 Y05;;810P B 080986

FILLING FUEL TANK



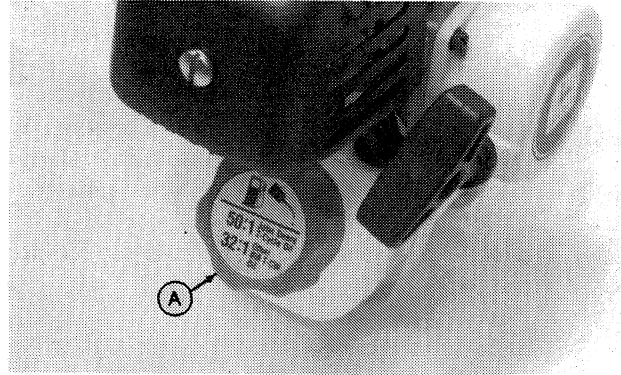
CAUTION: Handle Fuel carefully:

- Shut off engine and allow it to cool before refueling.
- Fill fuel tank outdoors.
- Do not smoke around fuel.
- Avoid spilling fuel. Do not overfill fuel tank.
- Wipe clean after refueling.
- Move from refueling area before starting.

IMPORTANT: Do not permit dirt or other foreign matter to enter the fuel system. This will cause hard starting, poor performance, and engine damage. Always use clean gasoline storage cans and funnels.

NOTE: See Fuels and Lubricants section for correct fuel mix.

1. Wipe dust and dirt from around fuel cap (A).
2. Remove cap and place in a clean area.
3. Fill tank to bottom of filler neck.
4. Install fuel cap securely.



220G Illustrated

2A2;TY1513 0 Y05;;810P D 080986

ADJUSTING LOOP (D) HANDLE

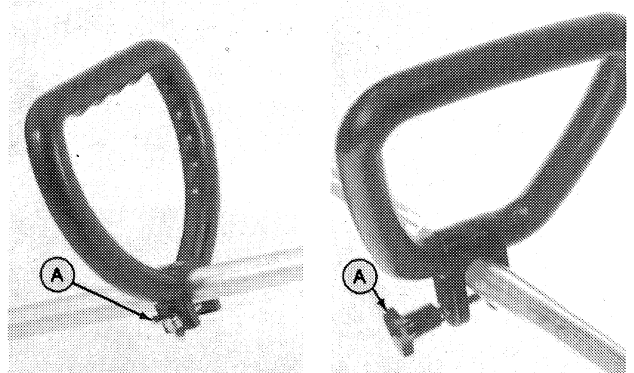


CAUTION: Do not position loop handle assembly ahead of indicator line on drive shaft.

1. Loosen wing nut or knob (A).
2. Pull or push handle to desired location. Tighten wing nut or knob.

100G and 200G Trimmers

220G Trimmer



2A2;TY8399 TY1517 9 Y05;;810P E 080986

STARTING COLD ENGINE

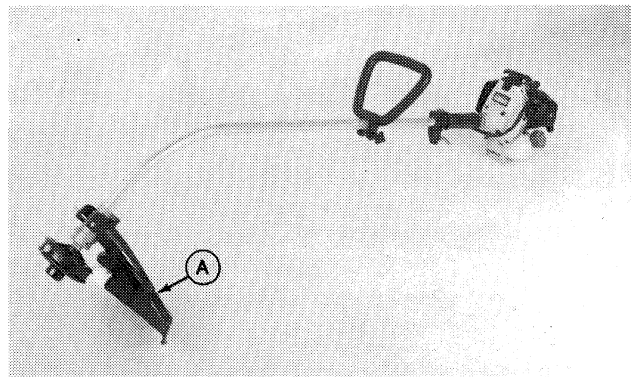


CAUTION: Never operate trimmer in an unventilated room.

1. Lay trimmer on flat, clear area of ground supported by guard (A).

Do not attempt to start trimmer in tall grass or brush.

220G Illustrated

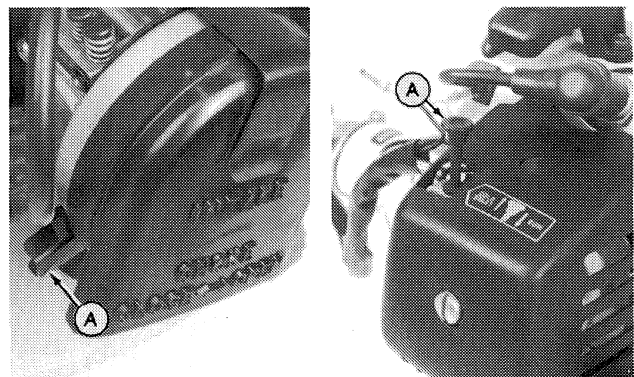


2A2;TY1518 0 Y05;;810P F 180986

2. Move choke lever (A) to "CLOSE" position on 100G and 200G trimmers or "COLD START" position on 220G trimmer.

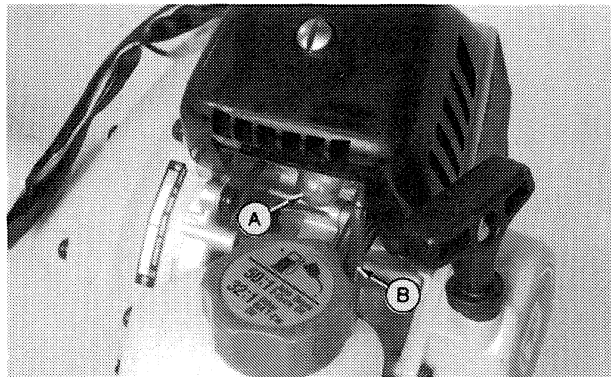
100G and 200G Trimmers

220G Trimmer



2A2;TY1518 1 TY1513 5 Y05;;810P G 080986

3. 220G Only: Push fuel primer bulb (A) until fuel is seen in return line (B).



2A2;TY1516 6 Y05;;810P H 080986

4. Move switch (A) to "ON" position.

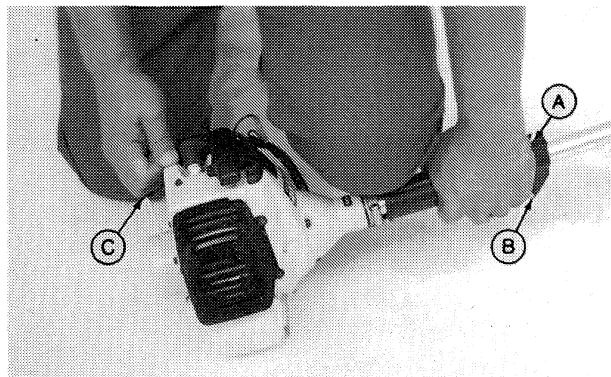
5. Squeeze throttle trigger (B) to half throttle.

6. Pull starter handle (C) several times until engine has first firing sound.

7. Move choke lever to "OPEN" position on 100G and 200G Trimmers or "RUN" position on 220G Trimmer.

8. Pull start handle until engine starts.

9. Warm up engine for 2 to 3 minutes at fast idle before cutting.



220G Illustrated

2A2;TY1518 2 Y05;;810P -080986

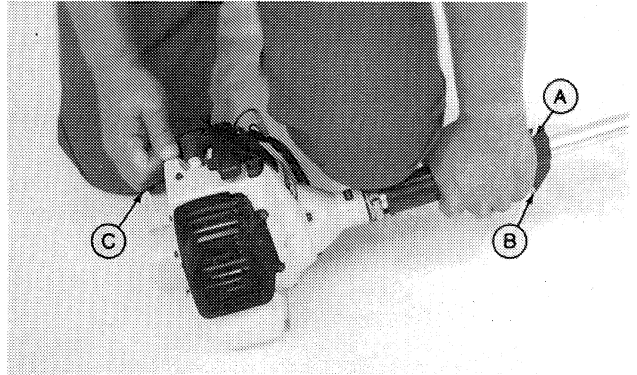
STARTING WARM ENGINE



CAUTION: Never operate trimmer in an unventilated room.

1. Move switch (A) to "ON" position.
2. Keep throttle trigger (B) at idle position and choke lever in "OPEN" position on 100G and 200G Trimmers, or "RUN" position on 220G Trimmer.
3. Pull starter handle (C).

NOTE: If engine does not start, follow "STARTING COLD ENGINE" procedure.

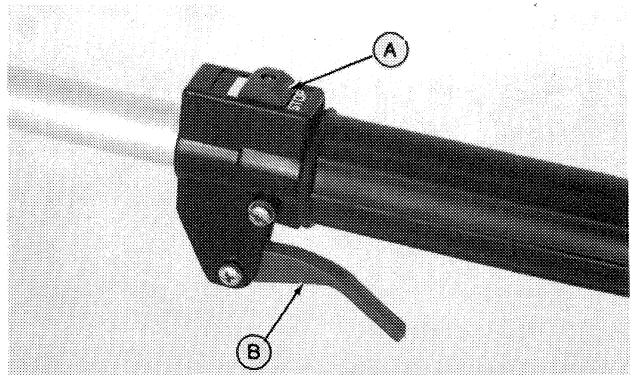


220G Illustrated

2A2;TY1518 2 Y05;;810P J 180986

STOPPING ENGINE

1. Release throttle trigger (B) and allow engine to idle momentarily.
2. Move switch (A) to "STOP" position.

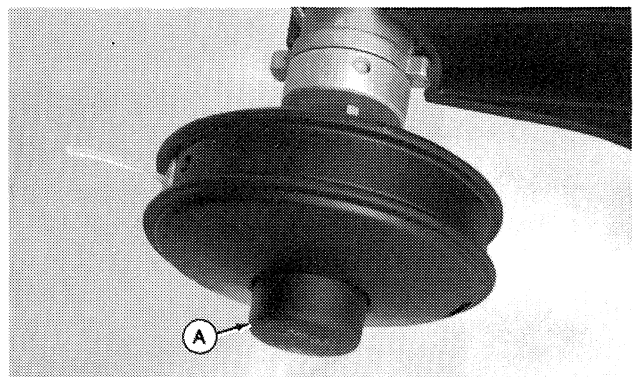


2A2;TY1152 3 Y05;;810P K 080986

ADJUSTING CUTTING LINE

1. While trimmer/cutter is running, tap spool (A) on ground. Cutting line is automatically extended 25mm (1 in.) with each tap.

NOTE: Cutting line is automatically trimmed to correct length by blade on plastic shield.



2A2;TY1517 8 Y05;;810P L 080986

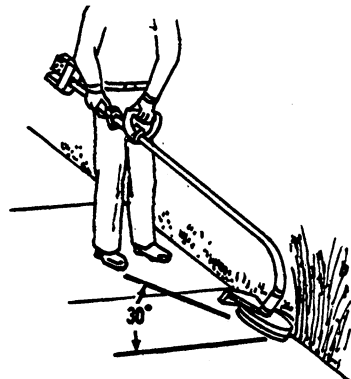
TRIMMING

Always trim to the right side of the operator to keep trimmings from being thrown back toward the operator.

Tilt trimmer approximately 30 degrees to the left for trimming along walks, driveways, curbs and most other trimming.

Do not sharpen the line by cutting off frayed ends. A line with frayed ends will protect delicate bark.

Start slowly and work up to the tree and bush easily.



2A2;TY8429 TY8430 Y05;;810P M 080986

MOWING

Keeping the cutting head parallel to the ground, pass trimmer over area to be cut.



2A2;TY8431 Y05;;810P N 080986

SCALPING

1. Scalp around tree to the right side, forcing cutting line into the ground with a 30 degree tilt.

2. After scalping outside perimeter of the circle, scalp the inside of the circle working in the opposite direction, flush to the tree.



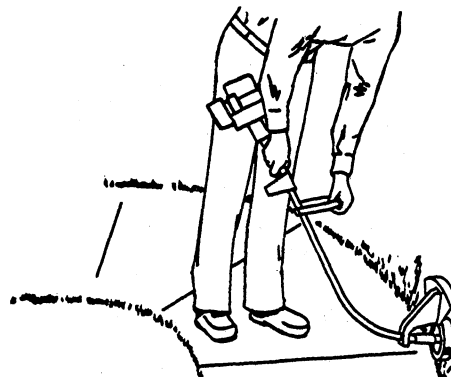
2A2;TY1898, TY1899 Y05;730P R 1508886

EDGING



CAUTION: NEVER EDGE WITHOUT WEARING SAFETY GOGGLES. Due to the position of the operator and the operating position of the trimmer, it is extremely important to wear safety goggles when edging.

Adjust handle and hold the cutting head at a 90 degree angle (perpendicular) to area to be edged. Unit will operate in a vertical position.



2A2;TY8428 Y05;;810P 0 180986

Fuels and Lubricants

FUEL PRECAUTIONS



CAUTION: Follow safe mixing procedures.

- Use an approved safety container for storage and refueling.
- Mix fuel outdoors.
- Move trimmer away from fueling area before starting engine.
- Do not smoke.
- Avoid spilling fuel. Wipe up any spills.

Leaded regular gasoline is recommended for fuel mixes, however, low lead and unleaded gasoline may be used. Do not use ethyl gasoline, gasohol, or other alcohol blended fuels.

Y05;73LU A 070886

MIXING FUEL (32:1)

IMPORTANT: Leaded regular gasoline is recommended for fuel mixes, however low-lead and unleaded may be used. Do not use ethyl gasoline, gasohol or other alcohol blended fuels.

When using oil meeting BIA certification for T-CW service, use a 32:1 ratio fuel-oil mixture.

FUEL MIX CHART (32:1 Mixture)					
U.S.		IMPERIAL		S.I. (Metric)	
Gas	Oil To Be Added	Gas	Oil To Be Added	Petrol	Oil To Be Added
1 gal	4 oz	1 gal	5 oz	4 L	125 mL
2 gal	8 oz	2 gal	10 oz	8 L	250 mL
2-1/2 gal	10 oz	2-1/2 gal	12.5 oz	10 L	313 mL
3 gal	12 oz	3 gal	15 oz	12 L	375 mL
4 gal	16 oz	4 gal	20 oz	16 L	500 mL
5 gal	20 oz	5 gal	25 oz	20 L	625 mL
6 gal	24 oz	6 gal	30 oz	24 L	750 mL

2A2;TY1017 2 Y05;62LU B 070886

MIXING FUEL (50:1)

IMPORTANT: Leaded regular gasoline is recommended for fuel mixes, however low-lead, and unleaded may be used. Do not use ethyl gasoline, gasohol or other alcohol blended fuels.

Use the 50:1 fuel mix chart when using John Deere 2-Cycle Engine Oil.

FUEL MIX CHART (50:1 Mixture)					
U.S.		IMPERIAL		S.I. (Metric)	
Gas	Oil To Be Added	Gas	Oil To Be Added	Petrol	Oil To Be Added
1 gal	2.5 oz	1 gal	3.2 oz	4 L	80 mL
2 gal	5.0 oz	2 gal	6.4 oz	8 L	160 mL
2-1/2 gal	6.4 oz	2-1/2 gal	8.0 oz	10 L	200 mL
3 gal	7.5 oz	3 gal	9.6 oz	12 L	240 mL
4 gal	10.0 oz	4 gal	12.8 oz	16 L	320 mL
5 gal	12.5 oz	5 gal	16.0 oz	20 L	400 mL
6 gal	15.0 oz	6 gal	19.2 oz	24 L	480 mL

2A2;TY1240 5 Y05;62LU C 070886

MIXING FUEL

IMPORTANT: Mix gasoline and oil thoroughly. Never use gasoline that has been stored for a long time. Never mix fuel in fuel tank.

1. Fill mixing container half full with gasoline.
2. Pour in all the oil.
3. Shake mixture vigorously.
4. Pour in remaining gasoline.
5. Shake mixture vigorously.

Y05;73LU B 070886

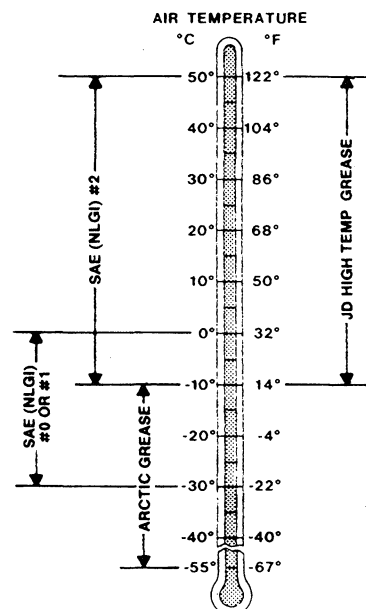
HIGH TEMPERATURE/EXTREME PRESSURE GREASE

Depending upon the expected air temperature range during the service interval, use grease as shown on the adjoining temperature chart.

John Deere High Temperature/Extreme Pressure Grease is recommended.

If other greases are used, they must be greases meeting SAE Multipurpose High Temperature Grease with Extreme Pressure (EP) Performance and capable of operating at compartment temperatures above 150°C (302°F).

At temperatures below -30°C (-22°F), use arctic greases such as those meeting Military Specification MIL-G-10924C.



AB6;X9328 053;GREAS1 180485

ALTERNATIVE LUBRICANTS

Conditions in certain geographical areas may require special lubricants and lubrication practices which do not appear in this operator's manual. If you have any questions, consult your John Deere dealer to obtain the latest information and recommendations.

AB6; 053;ALTER 120584

Troubleshooting

Symptom	Problem	Solution	Page
Engine Does Not Crank	Crank shaft bearing damaged.	See your John Deere dealer.	—
	Piston seized.	See your John Deere dealer.	—
	Crankshaft worn.	See your John Deere dealer.	—
	Recoil starter handle damaged.	See your John Deere dealer.	—
Engine Does Not Start	Switch in in "OFF" position.	Move switch to "ON" position.	10
	Fuel tank empty.	Fill fuel tank.	9
	Improper starting procedure.	Follow correct procedure.	10
	Dirty fuel filter.	Clean fuel filter.	25
	Incorrect carburetor adjustments.	Adjust carburetor.	26
	Engine flooded.	Clean and regap spark plug.	23
	Spark plug insulator cracked.	Replace spark plug.	23
	Defective spark plug wire.	See your John Deere dealer.	—
	Spark plug fouled.	Clean or replace spark plug.	23
Engine Dies or Accelerates Poorly	Air filter dirty.	Clean air filter.	24
	Fuel filter empty.	Fill fuel tank.	9
	Fuel filter dirty.	Clean fuel filter.	25
	Fuel tank cap vent plugged.	Clean fuel tank cap vent.	27
	Spark plug fouled.	Clean or replace spark plug.	23
	Incorrect carburetor adjustments.	Adjust carburetor.	26
<i>Continued on next page</i>			

Y05;;81TS A 180986

Troubleshooting

Symptom	Problem	Solution	Page
Engine Dies or Accelerates poorly Continued	Improper fuel mixture.	Use correct fuel/oil mix.	15
	Cylinder fins clogged with debris.	Clean cylinder fins.	26
	Exhaust port clogged with carbon.	Clean exhaust port.	28
Trimmer Does Not Trim Properly	Cutting head does not rotate.	See your John Deere dealer.	—
	Cutting line shortened or worn.	Adjust cutting line length.	12
	Cutting line dull.	Sharpen cutting line by clipping off frayed line.	8

Y05;;81TS B 240986

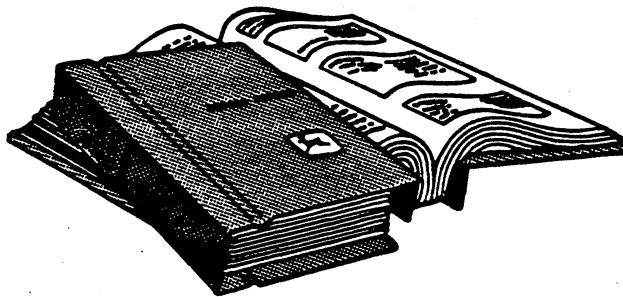
Periodic Service

ADDITIONAL SERVICE INFORMATION

This manual is not a detailed service manual. It has only information you need for normal operation and maintenance.

If items other than those listed in the operator's manual are required, see your John Deere dealer.

If a technical manual is desired, see your John Deere dealer for the correct manual for your trimmer.



1A3;TY1299 9 Y05;73SE A 070886

USING SERVICE RECORDS

1. Keep a record of the number of hours you run your trimmer.
2. Check your record regularly to learn when your trimmer needs service.
3. Do all the services in the interval section. Then write the number of hours (from your service record) and the date in the spaces provided.

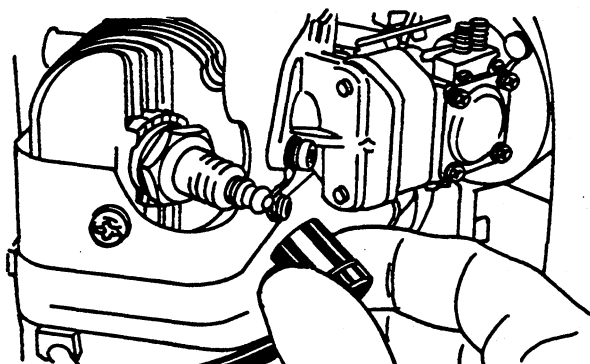
SAMPLE SERVICE RECORD CHART	
DATE	HOURS
1 JUN '85	3
6 JUN '85	2 - (5)
7 JUN '85	1 - (6)
11 JUN '85	4 - (10)
17 JUN '85	3 - (13)

2A2;TY1221 7 Y05;73SE B 070886

SERVICE HEDGE TRIMMER SAFELY



CAUTION: When servicing hedge trimmer, (other than carburetor adjustments) stop engine, disconnect spark plug wire and allow engine to cool.



2A2;TY1412 4 Y05;62SE C 200186

EVERY 10 HOURS

Check drive shaft lubricant.

Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				

2A2;TY1289 2 Y05;81SE D 080986

EVERY 25 HOURS

Clean and gap spark plug.

Clean air filter.

Clean fuel filter.

Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				

2A2;TY1289 2 Y05;73SE E 150886

EVER 50 HOURS

Clean cylinder fins.

Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				

2A2;TY1289 2 Y05;73SE F 070886

SERVICE/AS NECESSARY

Adjust carburetor

Clean fuel cap

Clean muffler and exhaust port

Install cutting line

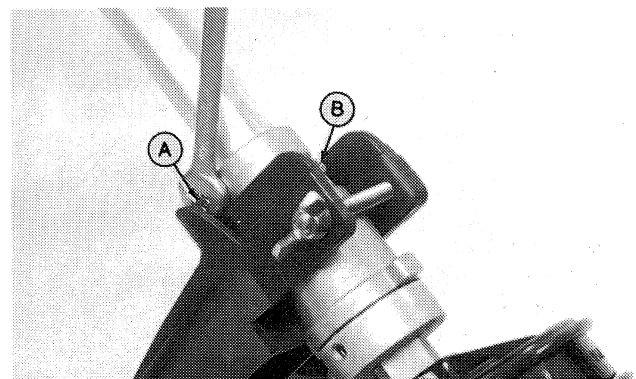
Install replacement spool

Hours				
Date				
Hours				
Date				
Hours				
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Hours				
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Hours				
Date				
Hours				
Date				

2A2;TY1289 2 Y05;81SE G 080986

CHECKING DRIVE SHAFT LUBRICANT

1. Loosen nut (A) and screw (B).
2. Remove gear housing from drive shaft housing.

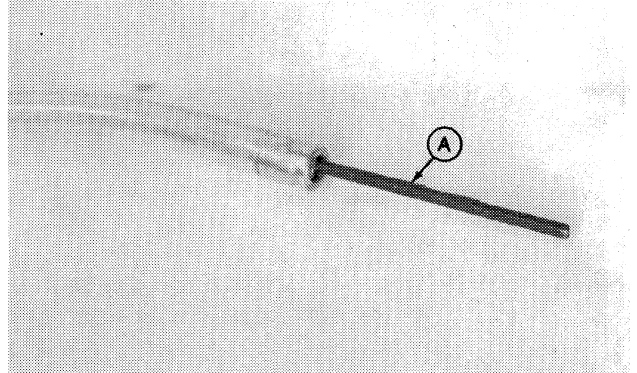


2A2;TY1518 3 Y05;81SE H 080986

3. Remove flexible drive shaft (A) from drive shaft housing.

4. Apply a thin coat of John Deere PT507 Multi-Purpose Grease or its equivalent to entire length of flexible drive shaft.

5. Rotate drive shaft 180 Degrees and reinsert into drive shaft housing leaving approximately 102 mm (4 in.) of flexible drive shaft showing.



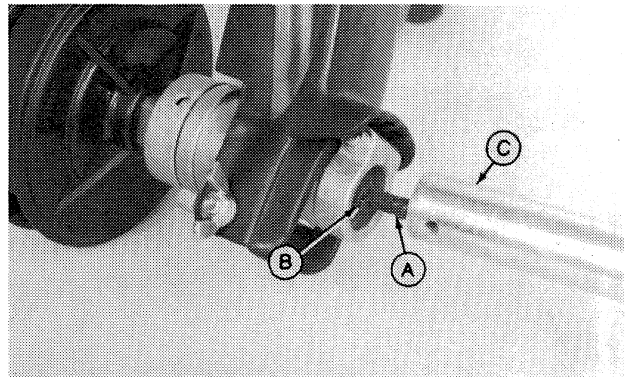
2A2;TY1518 4 Y05;;81SE I 080986

6. Insert flexible drive shaft (A) into gear housing (B).

7. Reinstall gear housing on drive shaft housing(C). Rotate cutting head to engage flexible drive shaft with clutch.

IMPORTANT: Do not force gear housing onto drive shaft housing.

8. Tighten nut and screw on gear housing.



2A2;TY1518 5 Y05;;81SE J 080986

Service/Every 25 Hours

CLEANING AND GAPPING SPARK PLUG

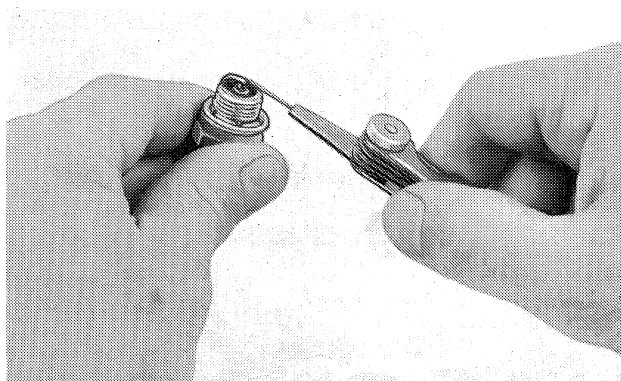
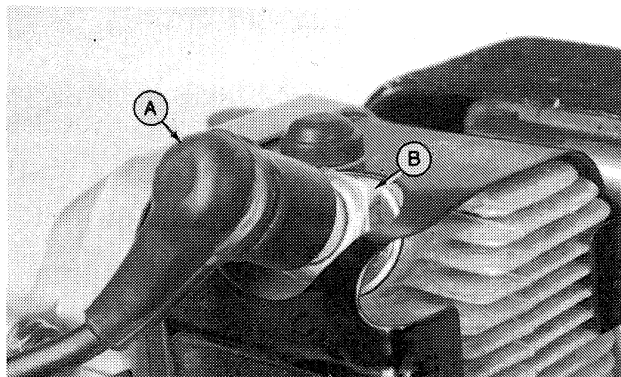


CAUTION: Stop engine and allow to cool before removing spark plug.

1. Disconnect spark plug cable (A) and remove spark plug (B).

IMPORTANT: Do not clean spark plug with sand paper or other abrasives. Engine scoring can result.

2. Carefully scrape or wire brush carbon deposits from spark plug.
3. Inspect spark plug for:
 - Cracked outer porcelain
 - Pitted or damaged electrodes
 - Damaged insulator (inner porcelain)
4. Check spark plug gap with a wire feeler gauge.
5. Set spark plug gap to 0.635 mm (0.025 in.).



200G Illustrated

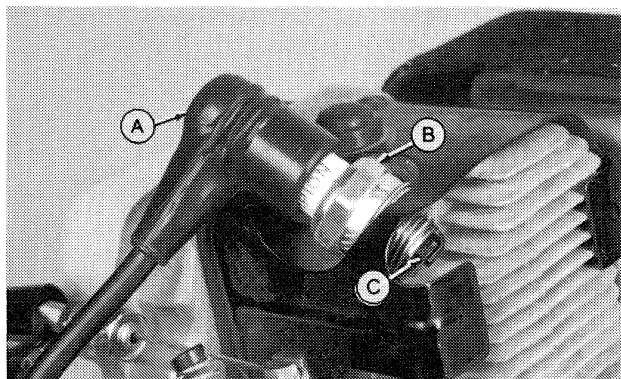
2A2;TY1518 6 TY8335 Y05;;81SE K 230986



CAUTION: Do not test for spark around spilled gasoline or in area where flammable vapors may be present.

IMPORTANT: Be sure spark plug is grounded to prevent failure of CDI module.

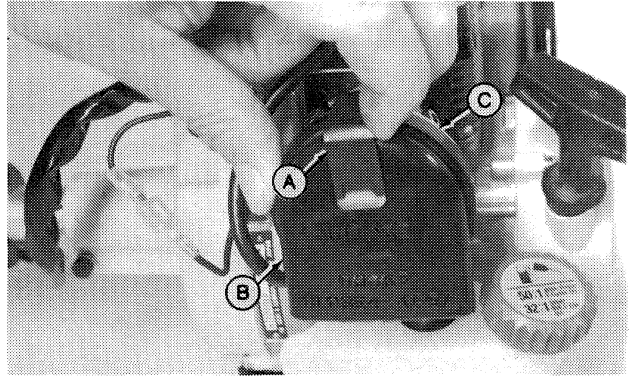
6. Connect spark plug cable (A) to spark plug (B).
7. Ground spark plug against bare engine metal.
8. When grounded against bare metal, the plug should produce a hot, blue spark (C) while the recoil starter rope is being pulled. Replace spark plug necessary.
9. Install spark plug and tighten to 14—15N·m (125—135 lb-in.).
10. Connect spark plug cable.



2A2;TY1518 7 Y05;;81SE L 080986

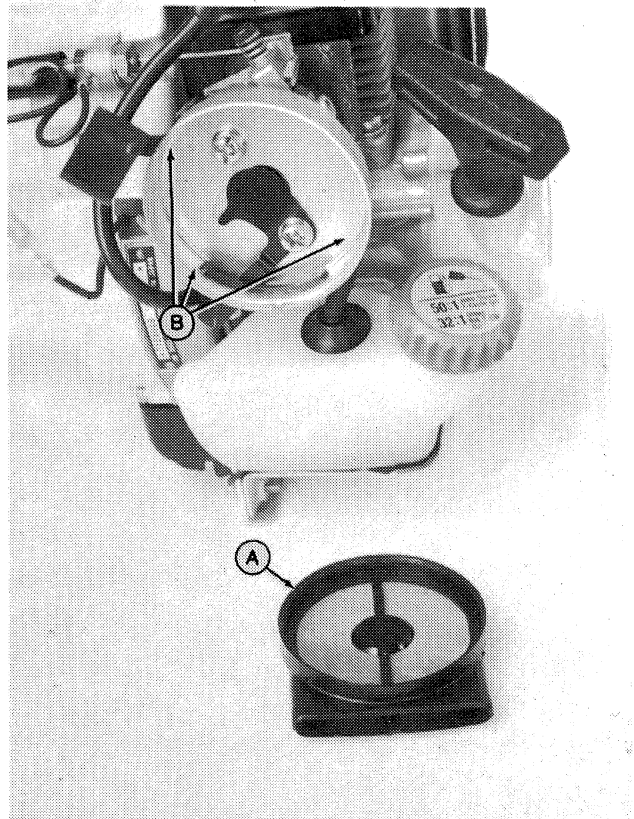
CLEANING AIR FILTER—100G AND 200G TRIMMERS

1. Remove air cleaner element by rotating lock (A) and pulling off cover (B) from air cleaner body (C).



2A2;TY1518 8 Y05;;81SE M 080986

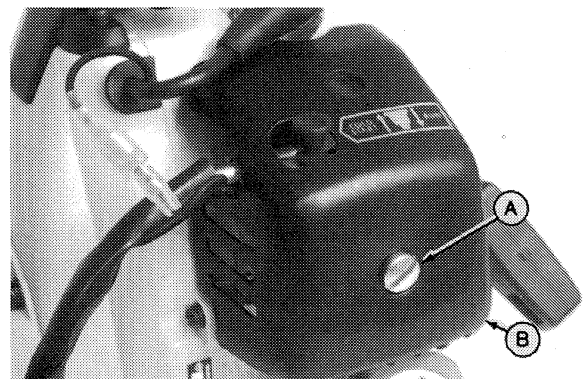
2. Lightly brush off heavy dust and wash element (A) in a non-flammable solvent. Allow element to dry completely before reinstalling.
3. Clean area around air cleaner body (B).
4. Reinstall cover.



2A2;TY1518 9 Y05;;81SE N 080986

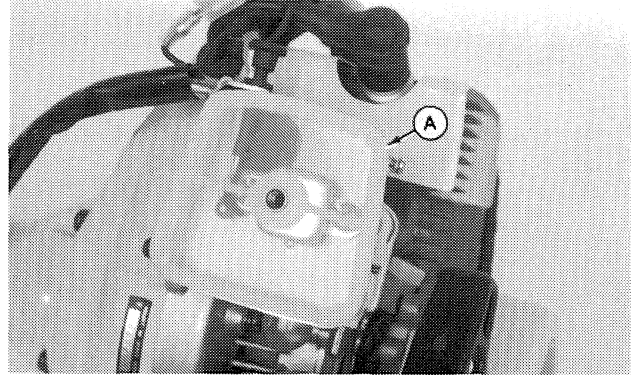
CLEANING AIR FILTER—220G TRIMMER

1. Remove screw (A) and cover (B).



2A2;TY1514 4 Y05;;81SE O 080986

2. Remove element (A) and lightly brush off heavy dust.
3. Wash element and cover in non-flammable solvent. Allow element to dry completely before reinstalling.
4. Clean area around air cleaner body.
5. Reinstall element and cover. Securely fasten.

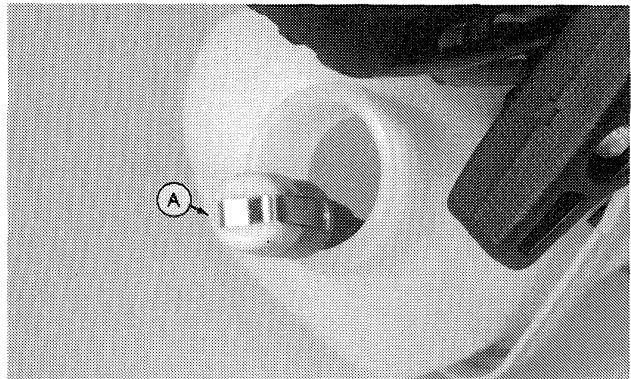


2A2;TY1514 5 Y05;;75SE L 190886

CLEANING FUEL FILTER

1. Remove fuel tank cap and lift fuel filter (A) from tank using a clean piece of wire.
2. Disassemble filter and wash in a non-flammable solvent. Allow element to dry completely before reassembling and reinstalling.

IMPORTANT: When installed, filter must lay on bottom of tank.



220G Illustrated

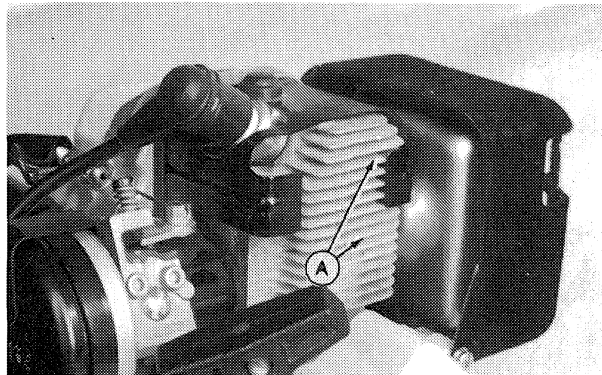
2A2;TY1514 8 Y05;;81SE P 080986

Service/Every 50 Hours

CLEANING CYLINDER FINS

Clean dust and dirt from cylinder fins (A).

200G Illustrated

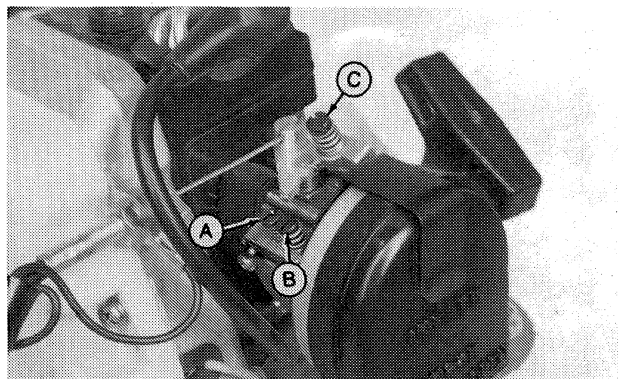


2A2;TY1519 0 Y05;;81SE Q 080986

ADJUSTING CARBURETOR—100G AND 200G TRIMMERS

NOTE: The carburetor has been preset at the factory and should not be adjusted unless absolutely necessary. The adjustment of one of the three carburetor adjusting screws will affect the other two. It will be necessary to readjust each until satisfactory performance is achieved.

1. Turn low speed screw (A) clockwise until lightly seated, then back screw out one turn.
2. Turn high speed screw (B) clockwise until lightly seated, then back out 1-1/4 turns.
3. Start engine and warm it up for 2-3 minutes.
4. Turn idle speed screw (C) clockwise until cutting head begins to turn, then back screw out 1/2 turn.
5. Turn low speed screw (A) to obtain maximum consistent idle and smooth acceleration.
6. Readjust idle screw (C).
7. Adjust high speed screw (B) until you hear a very slight four-cycling sound at full throttle under no load.



CAUTION: Keep engine idle speed adjusted so that cutting head stops when throttle is released.

IMPORTANT: To prevent serious engine damage due to lack of lubrication, maintain correct carburetor adjustment. Never operate engine with a lean carburetor adjustment.

2A2;TY1519 1 Y05;;81SE R 080986

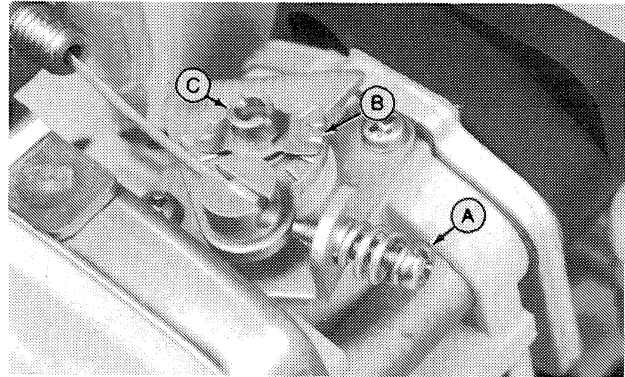
ADJUSTING CARBURETOR—220G TRIMMERS

NOTE: The carburetor has been preset at the factory and should not be adjusted unless absolutely necessary.



CAUTION: Keep engine idle speed adjusted so that cutting head stops when throttle is released.

IMPORTANT: To prevent serious engine damage due to lack of lubrication, maintain correct carburetor adjustment. Never operate engine with lean carburetor adjustment.



1. Start engine and allow to warm up.
2. Turn idle adjustment screw (A) clockwise until cutter head starts to turn.
3. Turn screw counterclockwise approximately 3/4 turn.

If further adjustments are required:

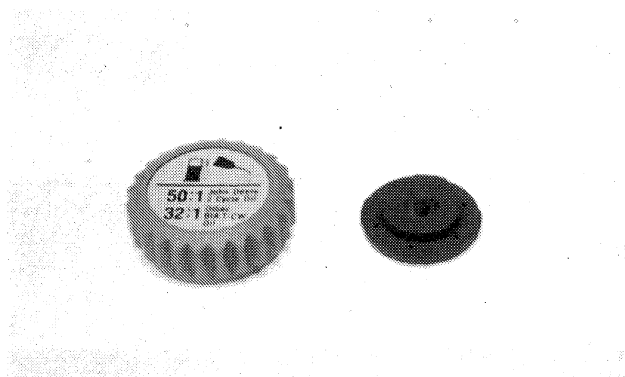
4. Turn idle limiter (B) one or two steps clockwise (leaner), or counterclockwise (richer).
5. Recheck idle adjustment, readjust if necessary.

NOTE: When adjusting idle limiter. Do Not turn needle pin (C).

2A2;TY1515 0 Y05;;81SE S 080986

CLEANING FUEL TANK CAP VENT

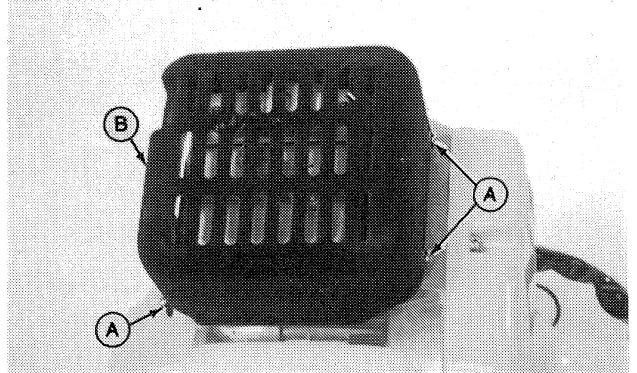
Disassemble fuel tank cap and wash components in a non-flammable solvent.



2A2;TY1416 2 Y05;62SE P 200186

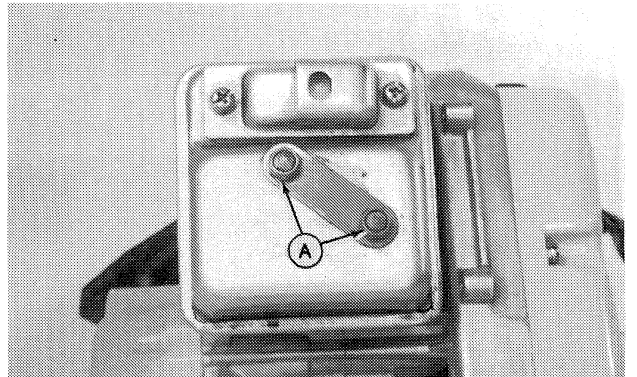
CLEANING MUFFLER AND EXHAUST PORT—100G AND 200G TRIMMERS

1. Remove screws (A) and muffler cover (B).



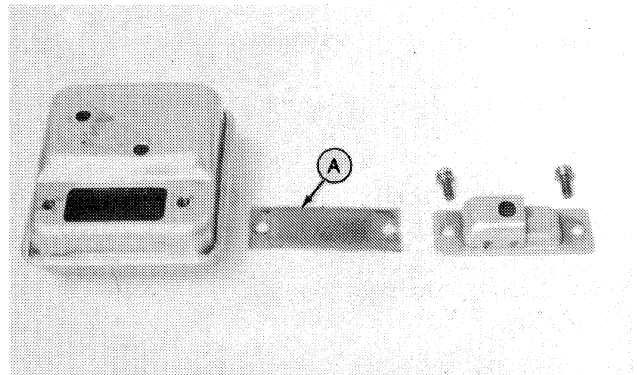
2A2;TY1519 2 Y05;;81SE T 080986

2. Remove nuts (A) and remove muffler.



2A2;TY1519 3 Y05;;81SE U 080986

3. Disassemble muffler as shown.
4. Inspect screen (A). If screen is damaged it should be replaced.
5. Clean muffler with a wire brush and a carbon cutting solvent.
6. Reassemble muffler.

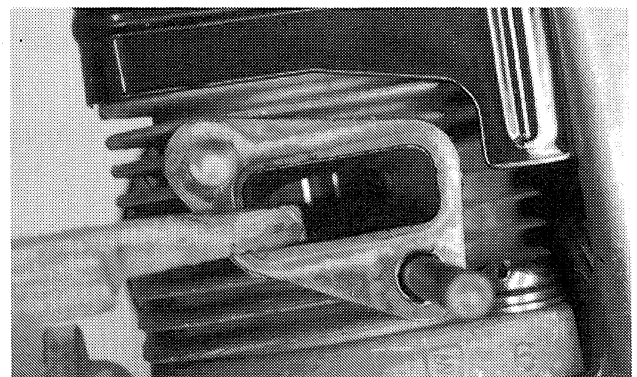


2A2;TY1519 4 Y05;;81SE V 080986

7. Clean carbon deposits from cylinder exhaust port with a wooden stick.

IMPORTANT: Do not use a metal tool. Be careful not to damage piston or cylinder.

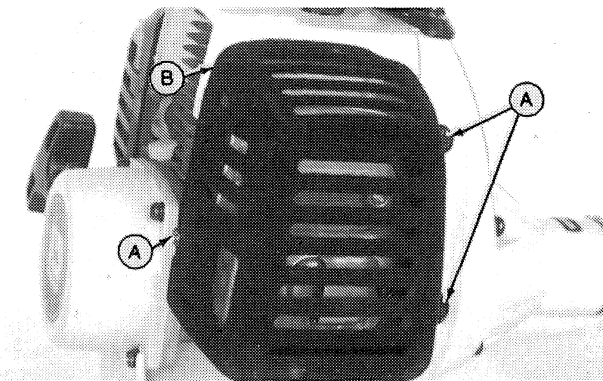
Replace exhaust gasket if necessary and reinstall muffler and muffler cover.



2A2;TY1519 5 Y05;;81SE W 080986

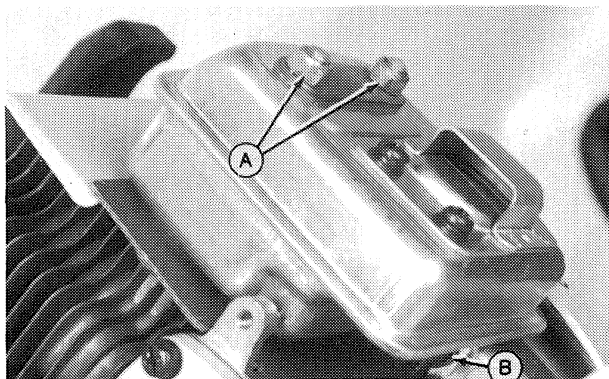
CLEANING MUFFLER AND EXHAUST PORT—220G TRIMMER

1. Remove screws (A) and muffler cover (B).



2A2;TY1515 2 Y05;;81SE X 080986

2. Remove nuts (A) and screw (B). Remove muffler.



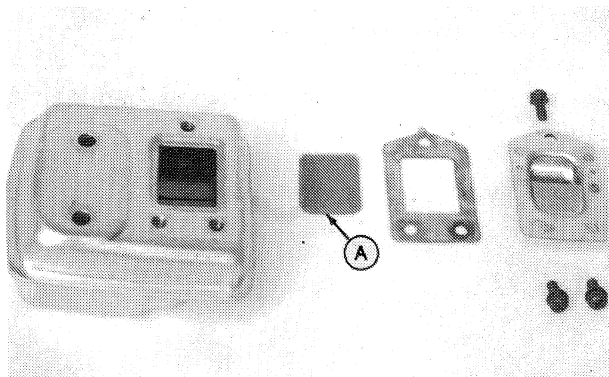
2A2;TY1515 3 Y05;;81SE Y 080986

3. Disassemble muffler as shown.

4. Inspect screen (A). If screen is damaged it should be replaced.

5. Clean muffler with a wire brush and a carbon cutting solvent.

6. Reassemble muffler.

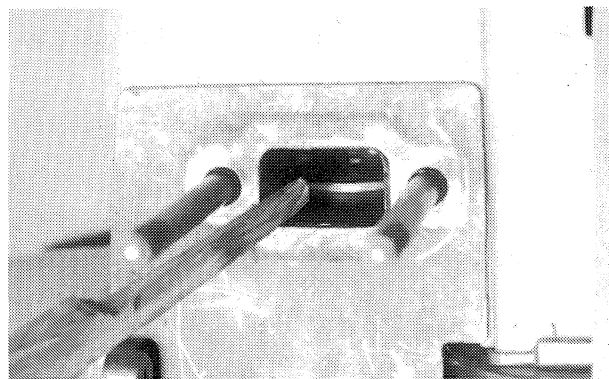


2A2;TY1515 4 Y05;;81SE Z 080986

7. Clean carbon deposits from cylinder exhaust port with a wooden stick.

IMPORTANT: Do Not use a metal tool. Be careful not to damage piston or cylinder.

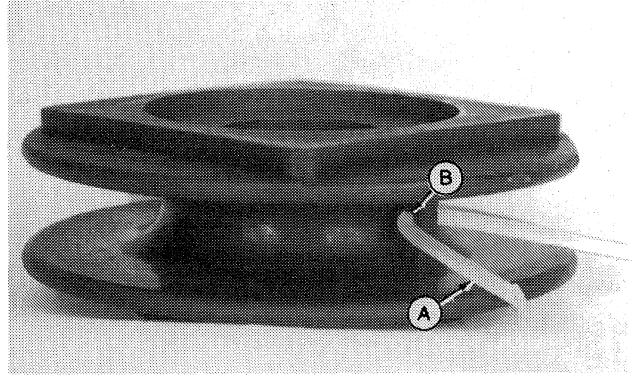
8. Replace exhaust gasket if necessary and reinstall muffler and muffler cover.



2A2;TY1515 5 Y05;;81SE AA 080986

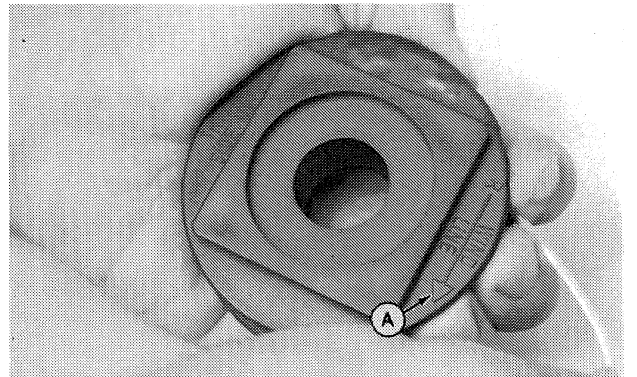
INSTALLING CUTTING LINE

1. Remove spool and line. (See Installing Replacement Spool in this section.)
2. Insert new line (A) through hole (B) as shown.



2A2;TY1519 6 Y05;;81SE AB 080986

3. Holding line tight, wind approximately 4.58 m (15 ft) of line on spool in direction of arrow (A) as shown.
4. Install spool. (See Installing Replacement Spool in this section.)

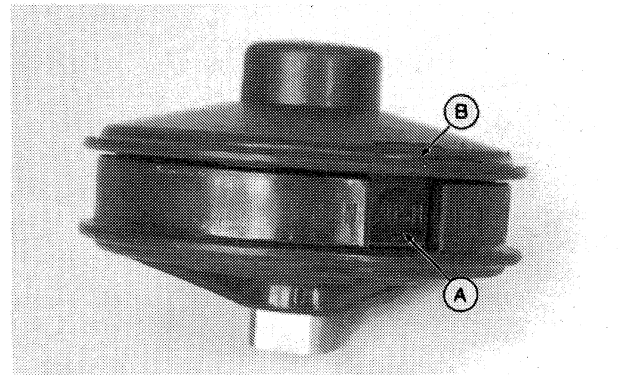


2A2;TY1519 7 Y05;;81SE AC 080986

INSTALLING REPLACEMENT SPOOL

NOTE: It is not necessary to remove cutting head from trimmer to replace spool.

1. Holding drum firmly. Push button (A) and lift cover (B) from cutting head. Remove spool.

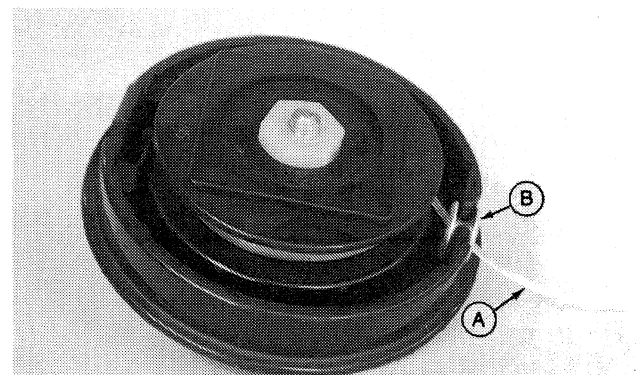


2A2;TY1519 8 Y05;;81SE AD 080986

2. Feed line (A) through line guide (B).

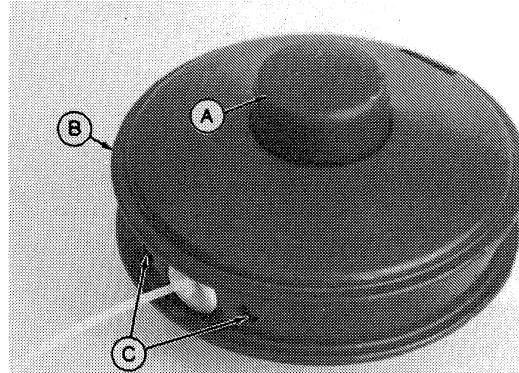
IMPORTANT: Keep spool line tight and do not let it slip under the spool into the drum.

3. Install spool into drum with words "THIS SIDE UP" facing up.



2A2;TY1519 9 Y05;;81SE AE 080986

4. Place bump button (A) on top of spool.
5. Install cover (B) with tabs (C) in holes in side of drum.
6. Depress opposite side until cover snaps into place.

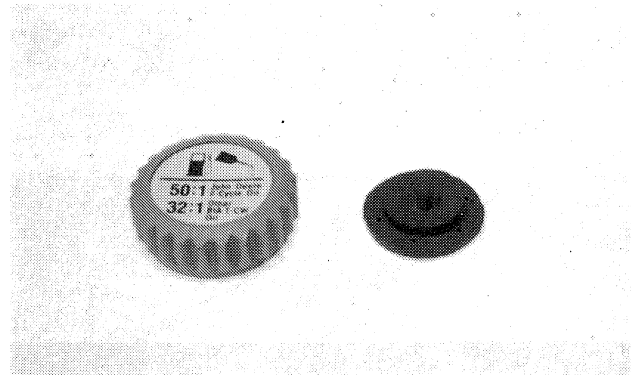


2A2;TY1520 1 Y05;;81SE AF 080986

CLEANING FUEL TANK CAP VENT

Disassemble fuel tank cap and wash components in a non-flammable solvent.

100G and 200G Trimmers



2A2;TY1416 2 Y05;;81SE AG 080986

Storage

STORAGE PRECAUTION

CAUTION: Store trimmer indoors in a high, dry locked-up place, out of reach of children.

Do not store trimmer in an enclosure where fuel fumes may accumulate or reach an open flame or spark.

Y05;;81ST A 080986

SHORT TIME—BETWEEN CUTTING JOBS

Clean the exterior of the trimmer with a damp cloth. Remove all accumulations of dirt and cuttings. If periodic lubrication and service are required, now is the time to perform those services to keep your trimmer ready for the next job.

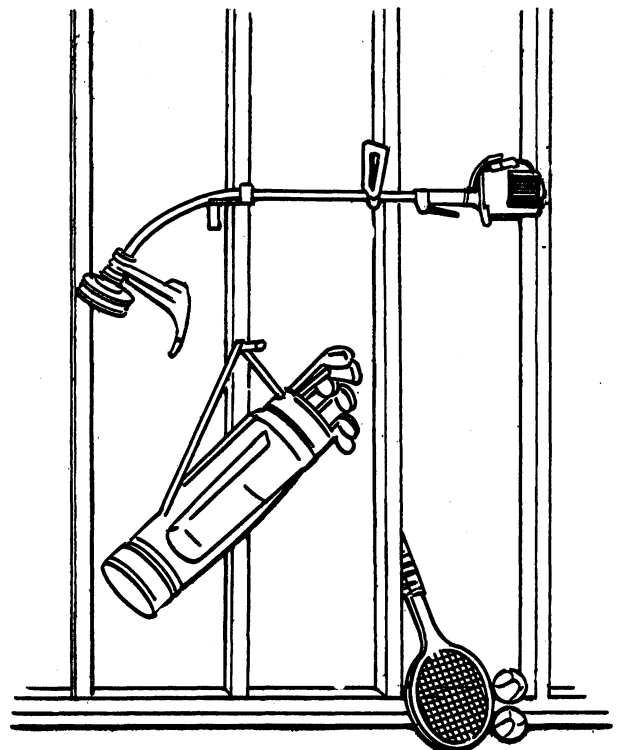
Y05;;81ST B 080986

LONG TIME—BETWEEN CUTTING SEASONS

IMPORTANT: Use John Deere Gasoline Storage Stabilizer (TY6295) or its equivalent in the fuel tank. See your John Deere dealer. A gasoline storage stabilizer should always be used when storing trimmer to prevent carburetor varnishing and partial plugging of carburetor jets. Either of these conditions could cause the engine to run lean and result in piston seizure and engine failure.

Put John Deere Gasoline Storage Stabilizer (TY6295) or its equivalent in fuel tank. Follow directions on can.

Clean the exterior of the trimmer with a damp cloth. Remove all accumulations of dirt and cuttings. If periodic lubrication and service are required, now is the time to perform these services to get your trimmer ready for the next season.

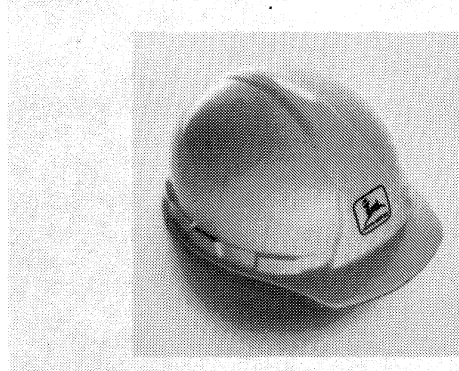


2A2;TY1517 5 Y05;;81ST C 240986

Accessories

SAFETY HELMET

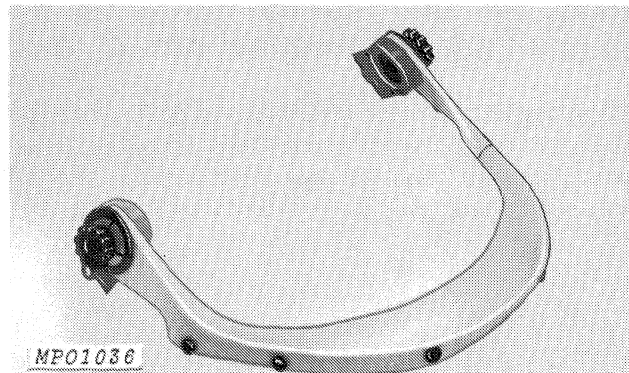
The TY9647 Safety Helmet is constructed of polyethylene and can be outfitted with hearing protectors and plastic face shield or face screen.



1A3;TY1317 1 Y05;49AC G 060585

MOUNTING BRACKET

The TY9690 Mounting Bracket is used for mounting face shield, face screen or hearing protectors to safety helmet.

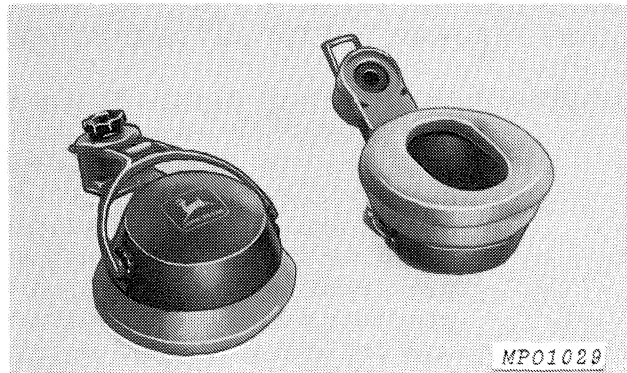


MP01036

1A3;MP0103 6 Y05;46AC H 130285

HEARING PROTECTORS

The TY9650 Hearing Protectors attach to mounting bracket. They provide protection against harmful noises while still allowing wearer to hear normal level conversation.

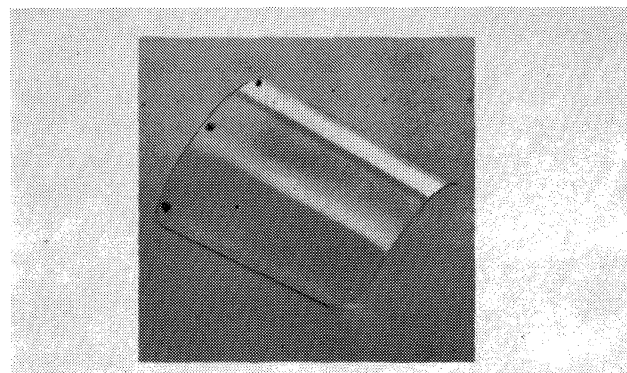


MP01029

1A3;MP0102 9 Y05;46AC I 130285

PLASTIC FACE SHIELD

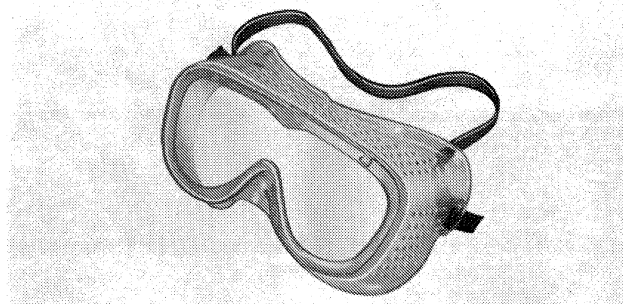
TY9648 Plastic Face Shield snaps onto mounting bracket for facial protection. A face screen is also available.



1A3;TY1317 2 Y05;49AC J 060585

SAFETY GOGGLES

TY3099 Safety Goggles help protect your eyes while operating machine.



2A2;TY1903 Y05;73AC A 070886

HEARING PROTECTORS

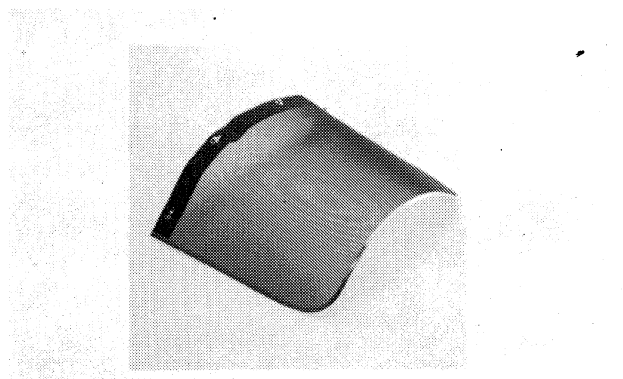
TY15258 Hearing Protectors help protect against harmful, high intensity noises.



A96;TY1258 2 Y05;45AC B 220285

FACE SCREEN

Open Air Face Screen TY9649 snaps onto mounting bracket of helmet for non-fog facial protection. A clear plastic face shield is also available.



1A3;TY1317 3 Y05;49AC K 060585

Assembly

UNPACK TRIMMER—100G AND 200G TRIMMERS

Remove trimmer from cartons and check for damaged components.

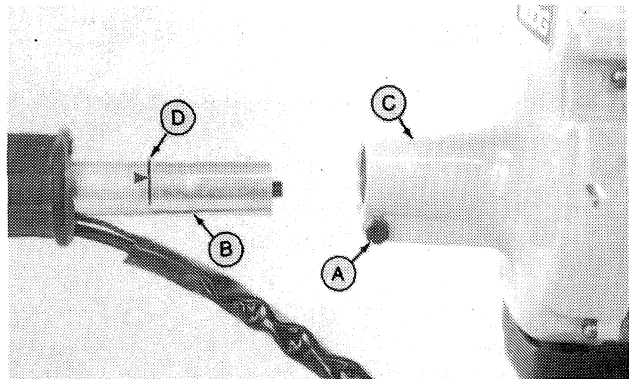
Y05;;81AS A 080986

INSTALLING DRIVE SHAFT HOUSING

1. Loosen screw (A).
2. Insert drive shaft housing (B) into clutch housing (C) to indicator line (D).
3. Position cutting head to desired angle and securely tighten screw (A).

A—Clutch Housing Screw
B—Drive Shaft Housing

C—Clutch Housing
D—Indicator Line



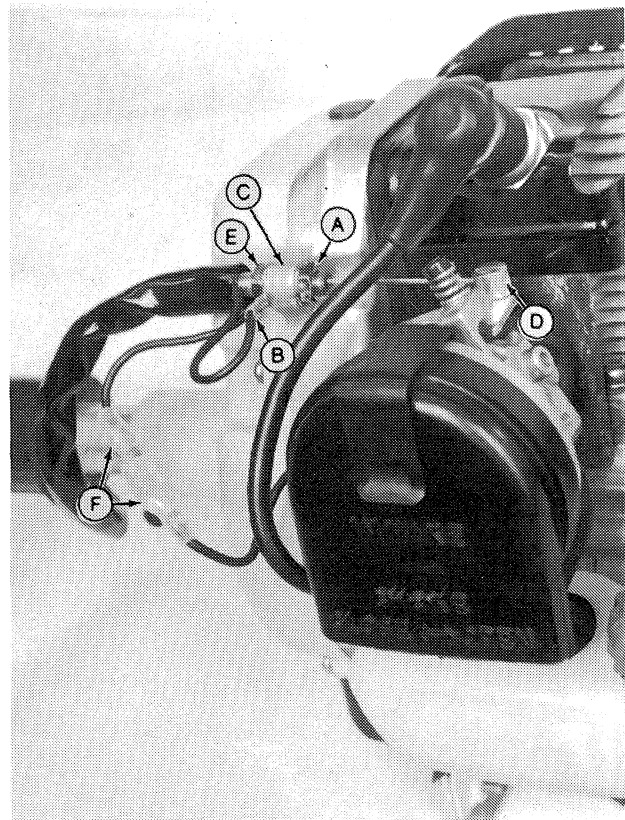
2A2;TY1520 2 Y05;;81AS B 080986

ATTACHING THROTTLE LINKAGE

1. Remove nut (A) and one washer on end of throttle cable.
2. Thread throttle linkage through ignition switch wire (B) and hole (C) in crankcase.
3. Replace nut and washer onto end of throttle cable. Do not tighten.
4. Place throttle cable end into throttle lever swivel (D) making certain head of inner cable end fits into socket of swivel.
5. Adjust nuts to maintain slight tension on inner cable but still allow engine to idle.
6. Squeeze throttle trigger to make certain throttle swivel is in full throttle position.
7. Securely tighten nuts.
8. Connect stop switch lead (F).

A—Throttle Cable Nut
B—Ignition Switch Wire
C—Mounting Hole

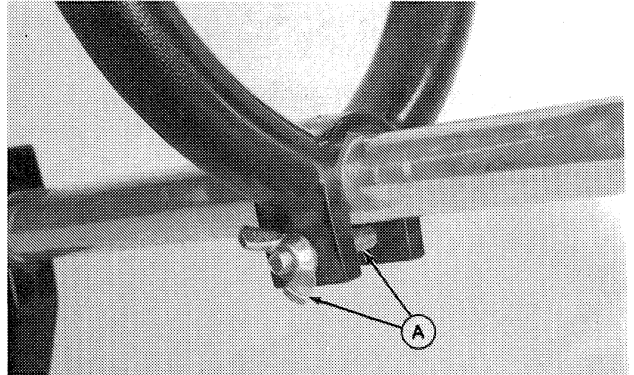
D—Throttle Lever Swivel
E—Throttle Cable Nut
F—Stop Switch Lead



2A2;TY1520 3 Y05;;81AS C 080986

INSTALLING LOOP HANDLE

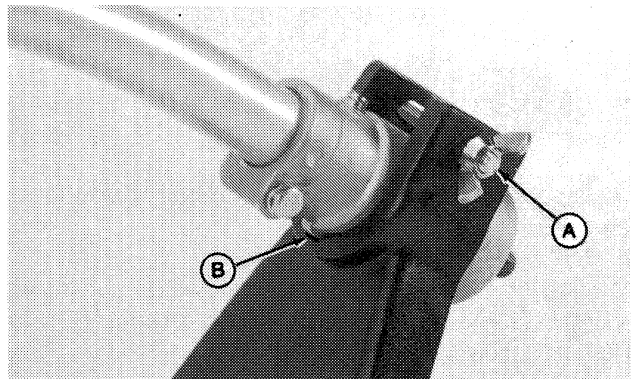
1. Remove wing nut and bolt (A) from loop handle.
2. Push loop handle over drive shaft housing. Position handle approximately 150 to 200 mm (6 to 8 in.) from grip.
3. Secure handle with bolt and wing nut (A).



2A2;TY1520 4 Y05;;81AS D 080986

INSTALLING SHIELD

1. Remove wing nut and bolt (A) from shield.
2. Push shield over the lower housing making sure that lower housing fits into notch in shield (B).
3. Secure shield with bolt and wing nut (A).



2A2;TY8400 Y05;;81AS E 080986

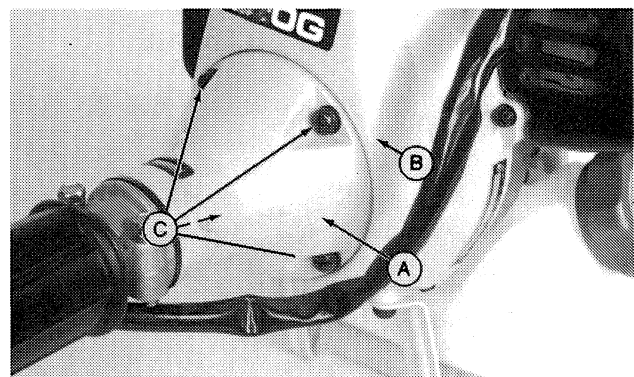
UNPACK TRIMMER—220G TRIMMER

Remove trimmer from cartons and check for damaged components.

Y05;;81AS G 180986

INSTALLING DRIVE SHAFT HOUSING

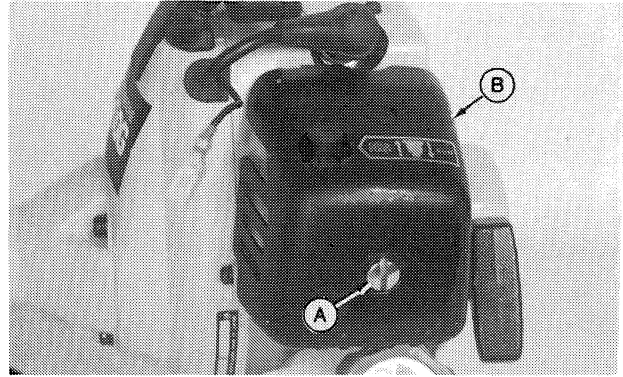
1. Insert drive shaft housing (A) into clutch housing (B) as shown.
2. Install screws (C). Tighten securely.



2A2;TY1520 6 Y05;;81AS H 080986

ATTACHING THROTTLE LINKAGE

1. Remove screw (A) and air filter cover (B).



2A2;TY1516 0 Y05;;81AS I 080986

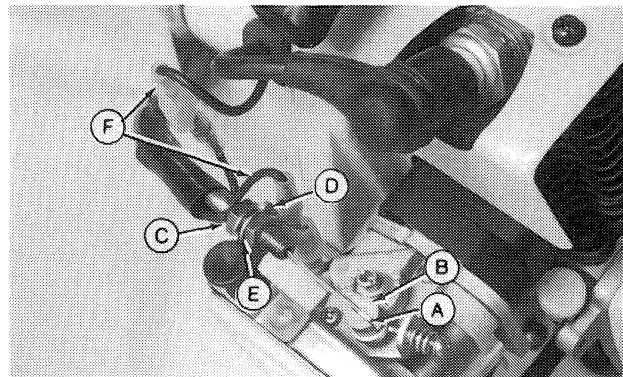
2. Loosen nut (A).

NOTE: Do not loosen nut (B), location has been preset at factory.

3. Place throttle cable end (C) into socket on the throttle lever swivel (D).

4. Slide throttle cable onto bracket (E) with a nut and washer on top of bracket and a nut and washer on bottom of bracket. Tighten securely.

5. Connect "Stop and Ground" leads (F).



A—Nut
B—Nut
C—Throttle Cable End
D—Throttle Lever Swivel
E—Bracket
F—Stop and Ground Leads

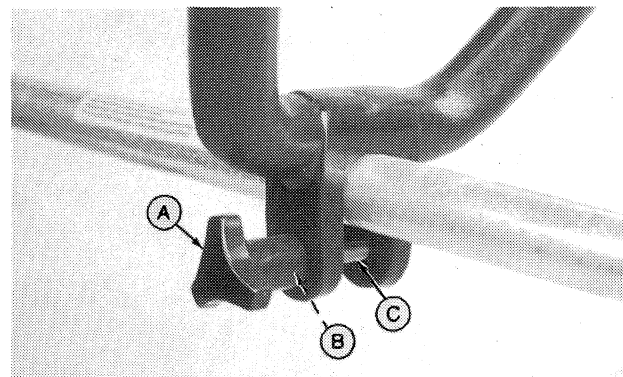
2A2;TY1516 1 Y05;;81AS J 080986

INSTALLING LOOP "D" HANDLE

1. Remove knob (A), washer (B) and bolt (C) from loop handle.

2. Push handle over drive shaft housing. Position handle approximately 150 to 200 mm (6 to 8 in.) from grip.

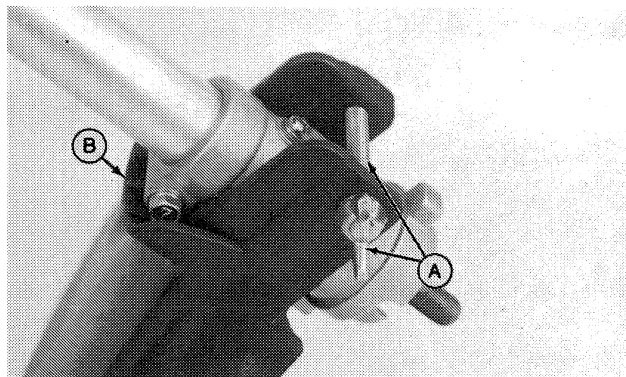
3. Install bolt through loop handle and fasten using washer and knob. Tighten securely.



2A2;TY1520 7 Y05;;81AS K 080986

INSTALLING SHIELD

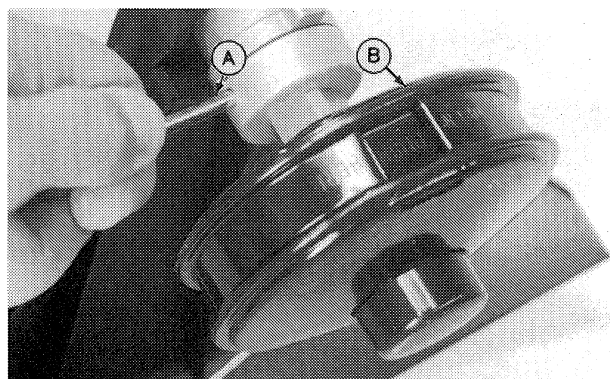
1. Remove wing nut and bolt (A) from shield.
2. Push shield over the lower housing making sure that lower housing fits into notch in shield (B) as shown.
3. Secure shield with bolt and wing nut (A).



2A2;TY1520 8 Y05;;81AS L 180986

INSTALLING CUTTING HEAD

1. Line up hole in arbor washer with hole in gear housing.
2. Place tool (A) in holes.
3. Screw cutting head (B) onto gear housing shaft by turning counterclockwise until tight. Remove tool.
4. Extend cutting lines to proper length. (See Adjusting Cutting Line in Operations section.)



2A2;TY1520 5 Y05;;81AS M 080986

Specifications

	100G	200G	220G
Engine	2-cycle, air cooled		
Displacement	16 cm ³ (0.97 cu in.)	21.2 cm ³ (1.29 cu in.)	
Ignition	Flywheel magneto with capacitor discharge ignition		
Lubrication	Positive mist type (fuel-oil mix)		
Carburetor	Diaphragm Pump		
Fuel Tank	0.4L (0.42qt) capacity		
Starter	Auto-rewind		
Idle speed	2500-3000rpm.		
Clutch engagement speed	3300 to 3800 rpm		3800 to 4200 rpm
Operation speed	5000 to 8000 rpm		7900 to 8500 rpm
Fuel	Use regular low-lead or unleaded gasoline. When using John Deere 2-Cycle Engine Oil, use a 50:1 ratio of fuel-oil mixture. When using oil meeting BIA certification for TC-W Service, use a 32:1 ratio of fuel-oil mixture. (See Fuel and Lubrication section.)		
Spark plug	AM54450		AM54611
Spark plug gap	0.635 mm (0.025 in.)		
Spark plug torque	14 to 15N·m (125 to 135 lb-in.)		
Clutch	Automatic centrifugal type		
Drive shaft	Flexible		
Drive shaft housing	Aluminum		
Handle Type	Loop.		

Continued on next page

Specifications

	100G	200G	220G
Cutting parts	Approximately 4.57 m (15 ft). of specially treated, nylon monofilament line 2.03 mm (0.080 in.) diameter		
Cutting swath	355.6 mm (14 in.)	406.4 mm (16 in.)	406.4 mm (16 in.)
Length	1415 mm (55.7 in.)	1405 mm (55.3 in.)	1400 mm (55.1 in.)
Height.	360 mm (14.2 in.)	370 mm (14.6 in.)	360 mm (14.2 in.)
Width	190 mm (7.5 in.)		320 mm (12.6 in.) . .
Weight	4.7 kg (10.4 lb)	4.9 kg (10.8 lb)	5.0 kg (11 lb)

Y05;;81SP A1 180986

RECORD TRIMMER SERIAL NUMBER

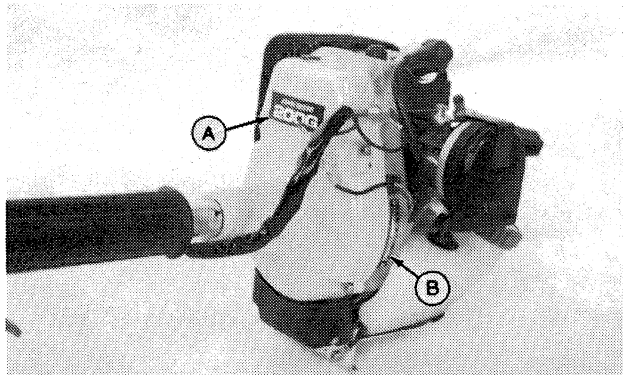
Record trimmer model number (A) and serial number (B) in space provided. Your John Deere Dealer needs this information when you order parts or request service.

Trimmer Model No. _____

Trimmer Serial NO. _____

Date of Purchase _____

(To be filled in by purchaser).



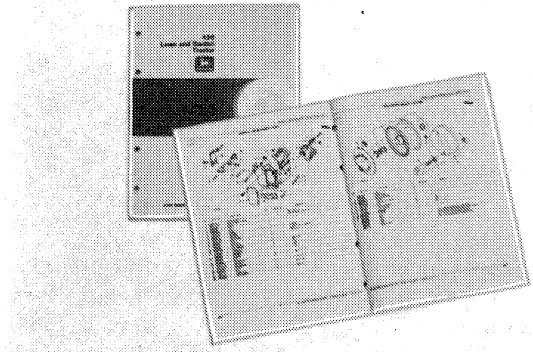
200G Trimmer Illustrated

2A2;TY1520 9 Y05;;81SP B 180986

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.

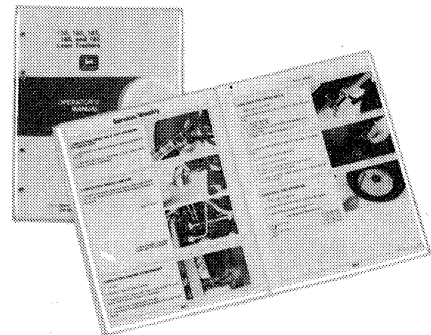


AB6;TS189 053;PARTS 271185

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.

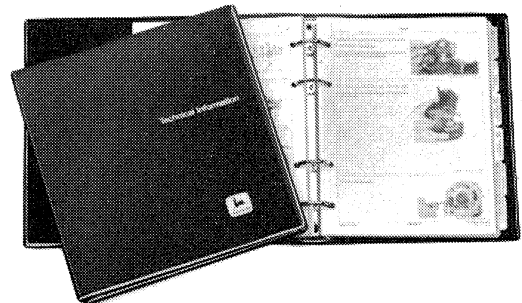


AB6;TS190 053;OM 271185

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.

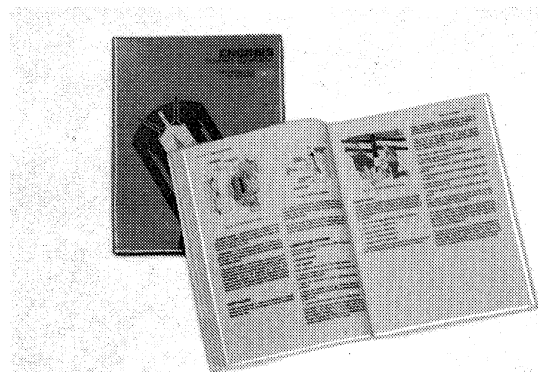
Component technical manuals are required for some products. These supplemental manuals cover specific components.



AB6;TS192 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.



AB6;TS194 053;CPFOS 271185

John Deere Service Literature Available

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Title	Order Number	Price Each	x Quantity	= Total
100G and 200G (Serial No.25001- and 220G Gasoline Trimmer/Edgers			x	=
Parts Catalog	PC-1911		x	=
Operator's Manual	OM-TY20856		x	=
			x	=
			x	=
			x	=
FOS Manual—Engines	FCP-80101B		x	=
FOS Manual—Electrical Systems	FCP-83101B		x	=
FOS Manual—Hydraulics	FCP-82101B		x	=
FOS Manual—Power Trains	FCP-81101B		x	=
Catalogs of Available Service Publications:				
Consumer Product Publications	CPC-1704			
Agricultural Product Publications	CPC-1703			
Industrial Product Publications	CPC-1852			

NOTE: If you want manuals or catalogs not shown on this list, list the model number, serial number and name of the product.

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SP-317 (MAR-86)

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Y57;PSLIT 2 180986



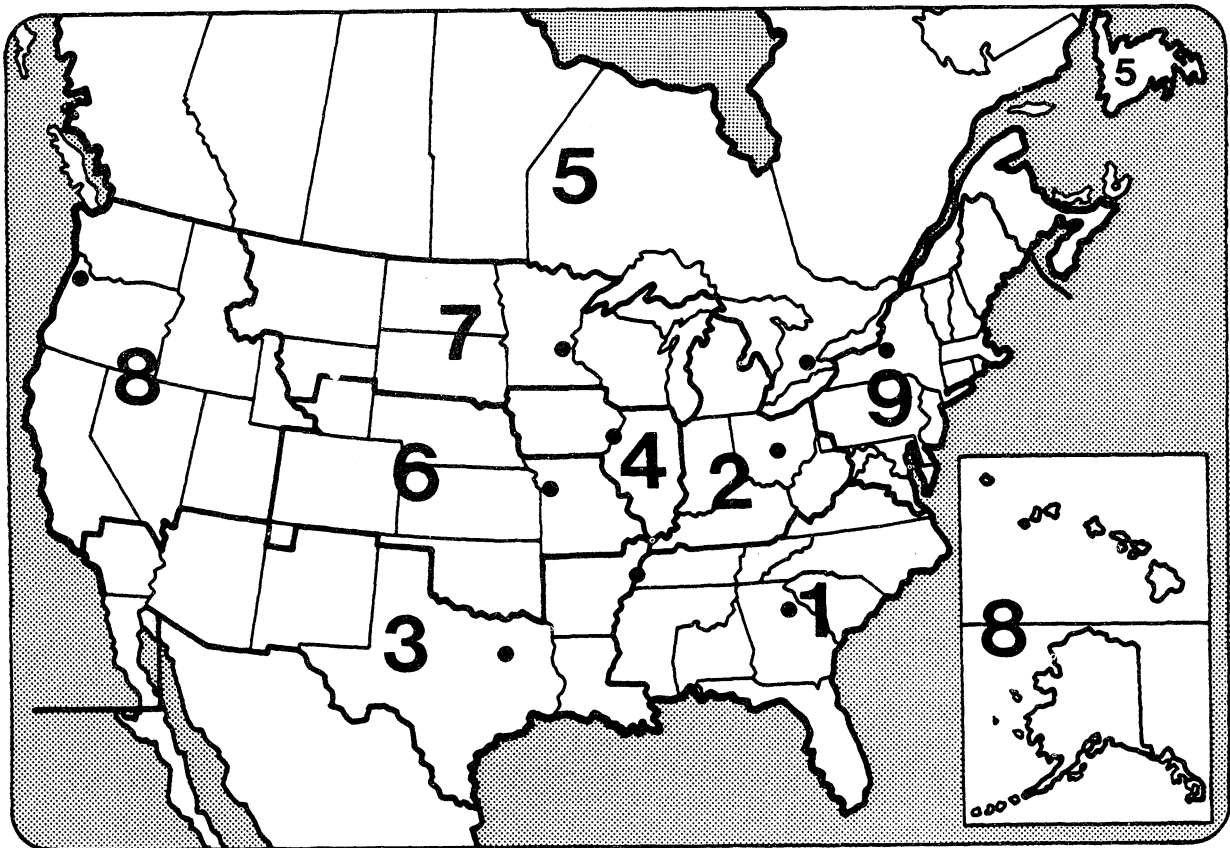
John Deere is at your service when you need it

It is John Deere's objective to train all of their authorized dealer service personnel effectively so they can handle your service needs. Your dealer therefore has service technicians who are trained to give your machine the best of care. We would encourage you to use the service provided by your dealer whenever possible.

If for some reason you are unable to locate a dealer in your area, our sales branches are available to provide you with such information. The location and listing of such sales branches are shown below. Check the listing for the location of the area in which you reside.

Sales Branch

- | | | |
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Conyers, GA 30208
404-922-7040 | 4. JOHN DEERE COMPANY
1400 - 13th Street
East Moline, IL 61244
309-752-6175 | 7. JOHN DEERE COMPANY
P.O. Box 855
Minneapolis, MN 55440
612-887-6200 |
| 2. JOHN DEERE COMPANY
701 Georgesville Road
Columbus, OH 43228
614-275-1500 | 5. JOHN DEERE LIMITED
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South Service Road at Hunter
Grimsby, Ontario, Canada L3M 4H5
416-945-9281 | 8. JOHN DEERE COMPANY
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Portland, OR 97220
503-667-1191 |
| 3. JOHN DEERE COMPANY
P.O. Box 20598
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