



# **Operator's Instruction Manual**

## **COLT 2110 Compact Tractor**

**COLT MANUFACTURING COMPANY, INC.**  
WINNECONNE, WISCONSIN 54986

# NOTICE

At the time your Colt Dealer delivers your new tractor, he will acquaint you with its operation and maintenance as outlined in the "Delivery Procedure and Warranty Registration". When your Dealer has completed these instructions, he will ask you to sign the report and will then hand you a copy for your records.

## NOTE

The "Delivery Procedure and Warranty Registration" also contains a record of the Pre-Delivery Checkup which your Dealer made on your tractor.

## AFTER DELIVERY CHECKUP

The Authorized Colt Dealer from whom you purchased your new tractor will perform the "After Delivery Checkup" outlined on the following page, if you will arrange to bring your tractor to his Service Shop within - - -

60 days after date of delivery or 200 hours of operation (whichever occurs first).

## NOTE

The only charge your dealer will make for this inspection will be for oil, filters, or other accessories.

# AFTER DELIVERY CHECKUP

(Owner's Name)

(Date Checkup Performed)

(Owner's Address)

(Dealership)

(Town)

Tractor has been operated \_\_\_\_\_ days

(Tractor Model and Serial Number)

## TRACTOR

- |   |   |
|---|---|
| <input type="checkbox"/> Check operation of clutch and brake.                         | <input type="checkbox"/> Crankcase oil (Change oil if necessary).       |
| <input type="checkbox"/> Check tire pressure.   | <input type="checkbox"/> Oil level in transmission.                     |
| <input type="checkbox"/> Tighten cylinder head and adjust tappets.                    | <input type="checkbox"/> Lubricate all pressure fittings.               |
| <input type="checkbox"/> Check ignition timing.                                       | <input type="checkbox"/> Check air cleaner.                             |
| <input type="checkbox"/> Check spark plug.  | <input type="checkbox"/> Check tension of all belts.                    |
| <input type="checkbox"/> Check full governed no load engine speed and low idle speed. | <input type="checkbox"/> Check steering.                                |
| <input type="checkbox"/> Tighten all bolts (including rims).                          | <input type="checkbox"/> Operate transmission.                          |
| <input type="checkbox"/> Cooling system (engine).                                     | <input type="checkbox"/> Battery, starter - generator and lights.       |
|   | <input type="checkbox"/> Check operation of all instruments and levers. |

DEALER: Question purchaser carefully concerning his experience with tractor and answer any questions concerning maintenance or operation that are not clear to him.

Checkup \_\_\_\_\_  
Performed by \_\_\_\_\_

Signed \_\_\_\_\_  
Dealer

Original—Dealer  
Duplicate—Leave in Operators Manual  
for Purchaser

Signed \_\_\_\_\_  
Customer



**be careful.....  
avoid accidents**



As a member of the National Safety Council, we are privileged to use the Green Cross for Safety to designate not only our interest in Safety, but to point out more clearly the safety precautions in this manual.

## TO THE PURCHASER OF A COLT TRACTOR

The care you give your new Colt Tractor will greatly determine the satisfaction and service life you will obtain from it. Use this manual as your guide. By observing the instructions and suggestions in this manual, your Colt Tractor will serve you well for many years.

As an Authorized Colt Dealer, we stock Genuine Colt Parts, which are manufactured with the same precision and skill as the original equipment. Our factory trained staff is kept well informed on the best methods of servicing Colt equipment and is ready and able to help you.

Should you require additional aid or information, contact us.

*Your Authorized Colt Dealer*



HI FOLKS!-I'm Sammy Safety.  
Look for me to point out  
important Safety Precautions

To insure efficient and prompt service, please furnish us with the Model, Serial, Engine Model Number and Engine Specification Number of your Tractor in all correspondence or contacts.





Figure 1. Right Hand View of Colt 2110 Tractor

## SERIAL NUMBER

When ordering parts from your Authorized Colt Dealer and in all contacts or correspondence with your dealer relative to the Tractor always specify the Serial, Model and Engine Numbers of your Tractor.

The Model and Serial Numbers are stamped on the number plate located on the instrument panel, Figure 2.

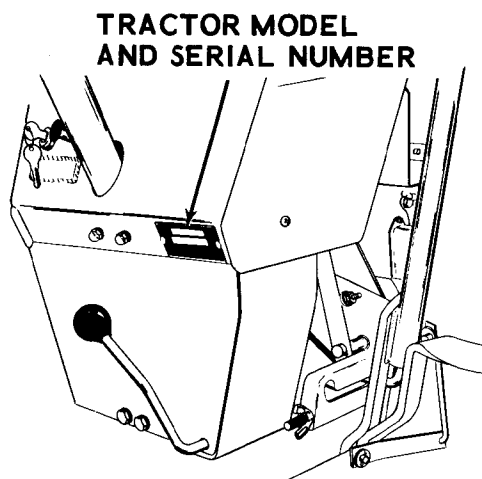


Figure 2

### NOTE

The terms "Right Hand" and "Left Hand" whenever used in this manual apply to the tractor when facing in the direction the tractor will move in forward operation.

For reference, fill in the Serial Number, Model Number and Engine Numbers of your Tractor in the spaces provided below.

Tractor Model Number \_\_\_\_\_

Tractor Serial Number \_\_\_\_\_



# general specifications

## Engine

Engine specifications are listed in Tecumseh Engine Manual, Form No. 691393, furnished with each Colt Tractor.

## Electrical System

Type of System ----- 12 Volt, Negative Ground  
Battery ----- Autolite LU7  
Starter-Generator ----- 12 Volt  
Voltage Regulator ----- Automatic Type  
Head Lights ----- 12 Volt

## Combination Brake and Tractor Clutch

Type Brake - - - - - Mechanical, operated by pedal on right side of tractor.  
Type Clutch - - - - - Mechanical disc, operates in conjunction with brake pedal.

## Transmission

Type ----- Hydra-Static  
Mechanical Range ----- High and Low

## SPEED RANGE

FIRST	.75 MPH
SECOND	2.2 MPH
THIRD	4.0 MPH
FOURTH	7.4 MPH
REVERSE	2.6 MPH

## WHEELS AND TIRES

Type	Size	PLY	Type	PSI
<b>FRONT</b>				
			Recommended	Max.
6.50-8	2	Terra	8	14
4.80-8	2	Rib	16	22
<b>REAR</b>				
8.50-12	2	Turf	8	10



## Overall Measurements

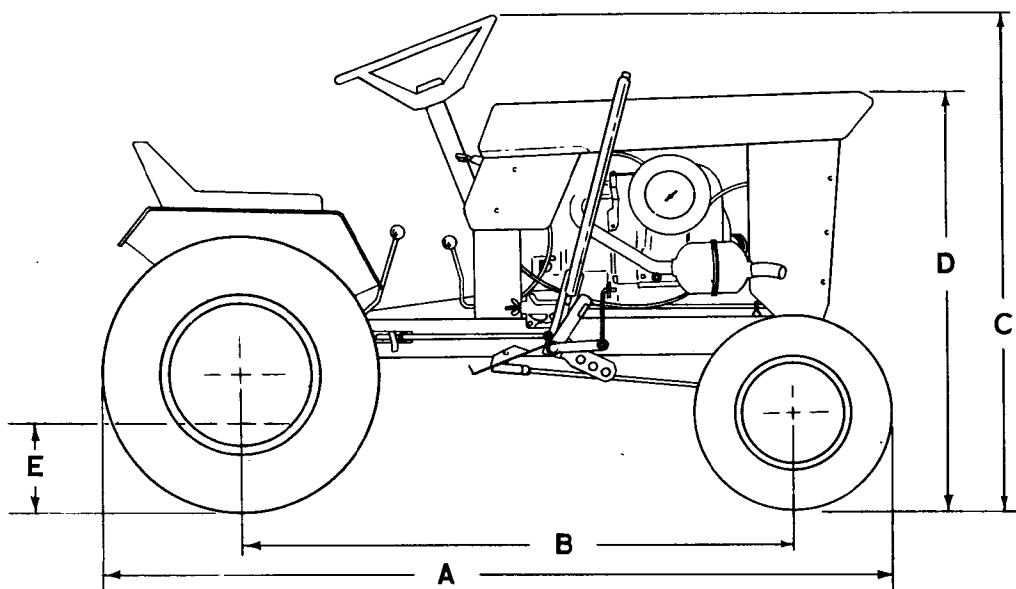


Figure 3

A	66"
B	46"
C	40"
D	34"
E	7"
Overall Width	35"
Shipping Weight	650 lbs.

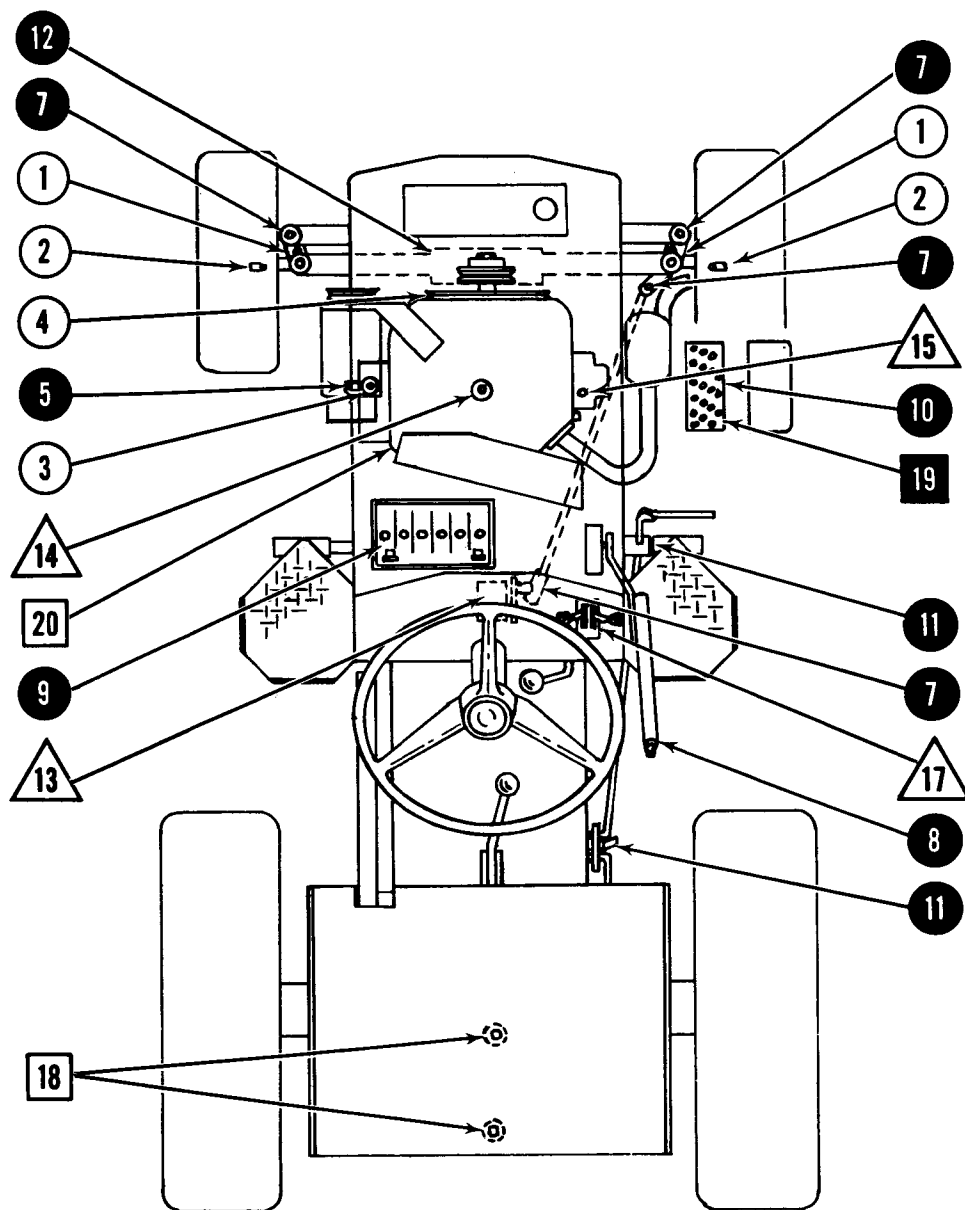


Figure 4

REF. NO.	SERVICE POINTS	NO. OF POINTS	GREASE	DRAIN	CHECK	CLEAN	CHANGE	OIL (Few Drops)	FREQUENCY
1	Front Spindles	2							5 HOURS OR DAILY
2	Front Wheel Bearings or Bushings	2							
3	Engine Oil *	1							
4	Blower Air Intake Screen	1							
5	Engine Oil	2							25 HOURS OR WEEKLY
6	Air Leaks **	**							
7	Tie Rod and Drag Link	4							
8	Implement Lever and Release	3							
9	Battery	1							
10	Air Cleaner ***	1							
11	Brake Linkage and Lock	3							100 HOURS OR MONTHLY
12	Front Axle Pivot	1							
13	Steering Gear Box °	1							
14	Spark Plug °	1							
15	Crankcase Breather ***	1							1000 HOURS OR YEARLY
16	Bolts and Fittings for Tightness								
17	Choke and Throttle Cables	2							
18	Transmission Lubricant +	1							
19	Air Cleaner Element ***	1							1000 HOURS OR YEARLY
20	Engine Cooling Fins ***	1							

\*Keep oil level between marks on gauge (Capacity 3 pts.)

\*\*Be sure there are no leaks between gaskets, joints at carburetor, air cleaner and cylinder block

\*\*\*More often in dusty conditions.

°Clean and regap.

°°One stroke - Do not overlubricate

+Maintain level at check plug on rear side. When changing, refill with 3 pints of Shell Macoma #72 lubricant or the equivalent, such as SAE90 or SAE80

Use number 1 gun grease (Lithium Base) for all pressure fittings. (As many strokes as required.)

## SAFETY PRECAUTIONS



1. Before starting the engine, be sure all operating controls are in NEUTRAL and the tractor is on a flat, level surface.
2. Never operate any of the controls from any position but seated in the operator's seat.
3. Be extra careful when going down steep grades.
4. Drive at a speed slow enough to insure safety and complete control, especially over rough terrain.
5. Reduce ground speed when making a turn, going down hill or applying the brake.
6. Always operate the tractor in first or second gear whenever on hills or steep inclines.
7. Never park the tractor on a hill or incline and leave unattended.
8. Be certain the clutch and brake linkage is maintained in proper adjustment. See Preventive Maintenance Section.
9. Never leave the engine running while it is unattended.
10. Never dismount from a Tractor when it is in motion.
11. Never permit persons other than the operator to ride on the Tractor.
12. Never stand between a Tractor and machine when hitching unless the shift lever is in neutral.
13. Do not oil, grease or adjust a Tractor when the engine is running.
14. Never refuel a Tractor when the engine is hot or running.
15. Do not smoke when refueling.
16. Never operate a Tractor in a closed shed or garage.
17. Do not wear loose fitting clothing which may catch in the moving parts.
18. To prevent highway accidents, use red warning flags in the day-time and red warning lamps at night.
19. Always have PTO lever disengaged and the brake pedal depressed and locked when parking or starting the Tractor.
20. REMEMBER, A CAREFUL OPERATOR IS ALWAYS THE BEST INSURANCE AGAINST AN ACCIDENT.



## **RUN-IN PROCEDURE**

Your new tractor should be subjected to a run-in period before it is operated at full load. Drive the tractor for several hours to get the feel of operation. Actuate the speed control lever through its full range during the run-in period.

## **PRE-STARTING CHECK LIST**

Before starting your new Colt Tractor for the first time and before each operating period thereafter, check the following.

1. MAKE SURE EVERYONE RESPONSIBLE FOR THE TRACTOR'S OPERATION AND MAINTENANCE UNDERSTANDS THE IMPORTANCE OF CLEAN FUEL.
2. Check that all lubricating fittings are serviced as directed in the Lubrication Chart.
3. Check that the crankcase and transmission housing is filled to levels indicated in the Lubrication Chart.
4. Be sure air cleaner and blower air intake screen on engine are free of obstructions and excessive dirt.
5. Check that tractor fuel tank is filled with clean fuel that meets requirements listed under Fuel Specifications. Always wipe fuel tank cap clean before removing it. Be sure vent hole in fuel tank is open.

## OPERATING CONTROLS AND INSTRUMENTS

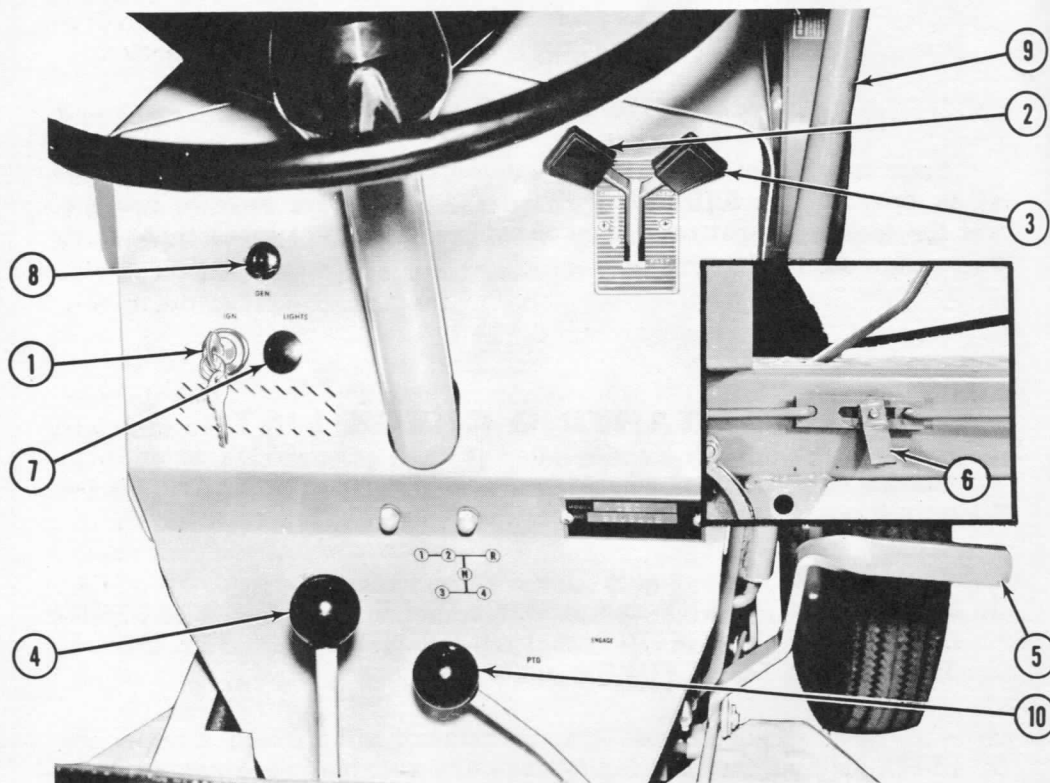


Figure 5



1. **STARTER KEY** - Turn the key to the right to start the engine. When turning off the engine, turn the key to the left and the key will be in an upright position. Do not turn the key all the way to the left as this is the accessory position

**DO NOT START THE ENGINE WITH THE PTO ENGAGED.**

2. **CHOKE** - To start a cold engine, push choke lever down. Push lever up when engine is warmed up.
3. **THROTTLE** - When the throttle lever is all the way up, the engine should be idling. To increase the engine RPM, push the lever downward until the desired throttle setting is obtained.



4. **RANGE AND DIRECTION SELECTOR LEVER** - With the selector lever in neutral, depress the combination clutch and brake pedal and place the lever in any one of the four forward or one reverse speed ranges to obtain the desired working speed or direction.

**CAUTION** Be sure the selector lever is in neutral when parking and starting the tractor.

5. **COMBINATION CLUTCH AND BRAKE PEDAL** - The combination clutch and brake pedal will disengage the traction clutch on the engine when the pedal is depressed to approximately three-fourths of its full travel, thereby stopping the transmission drive belt. Depress the pedal fully to apply the brake.
6. **BRAKING AND PARKING** - When making a normal stop, depress the brake pedal about three-fourths of its full travel which will stop the transmission drive belt. If a fast stop is necessary, fully depress the pedal to engage the brake band with the brake drum on the transmission.

**NOTE** Always engage and lock the brake when parking the tractor. The brake is locked by tightening the lock lever (6, Figure 5) with the brake pedal fully depressed.



Make certain the brake band is maintained in proper adjustment. Should the brake band become worn or loosened, the traction clutch on the engine can be re-engaged when excessive pressure is applied to the brake pedal. Refer to the Brake, Clutch and Drive Belt Adjustment instructions in the Preventive Maintenance Section.

7. **LIGHT SWITCH** - Pull the light switch out to turn on the headlights and push in to turn off the headlights.
8. **AMMETER WARNING LIGHT** - The warning light goes on when the key switch is turned on and should go off when the engine starts. If the ammeter warning light does not go off when the engine starts and is running, it is an indication that the battery is discharging and the generator is not supplying current. **STOP THE ENGINE AND CHECK FOR THE CAUSE.**

If the ammeter light flickers when the engine is at low idle, the battery, generator or regulator may not necessarily require servicing. However, if the warning light remains on when engine speed is increased, stop the engine immediately and check for the cause.

## OPERATING CONTROLS (Continued)

9. **IMPLEMENT LIFT LEVER** - The implement lever is used to raise or lower the implement and also to hold the implement at any given level. The wing nut at the base can be turned in or out to adjust the minimum operating height of an attachment. When transporting the attachment, pull the lift lever back until the catch engages. Depress the button at the top of the lever to release and lower the attachment to desired operating height. A slight pulling pressure on the lever will permit the release button to be more easily depressed.



10. **PTO LEVER** - To engage the attachment drive clutch, move the PTO lever to the right. To disengage, move the lever back to the left. Be sure the PTO lever is in the off position when parking or starting the Tractor.

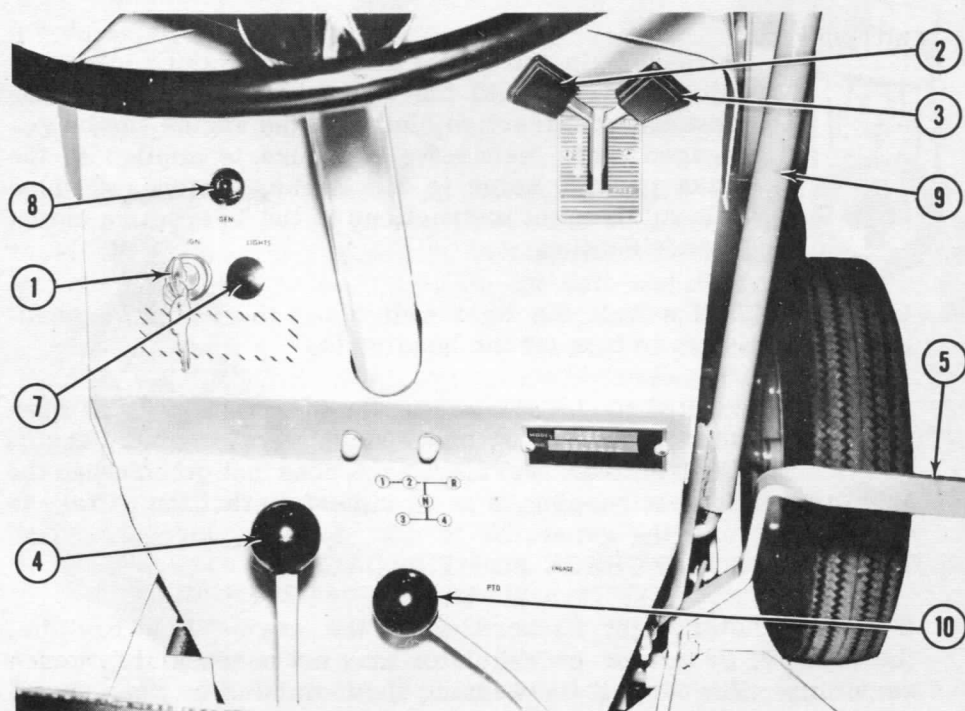


Figure 6

## STARTING PROCEDURE

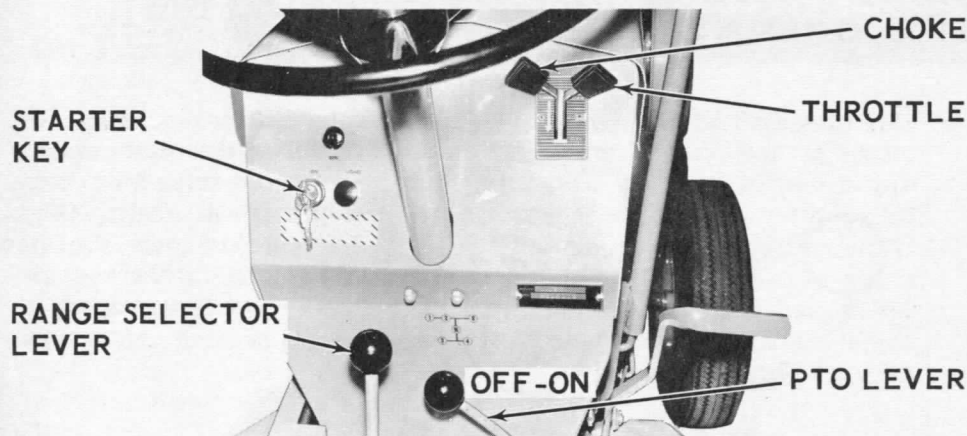


Figure 7

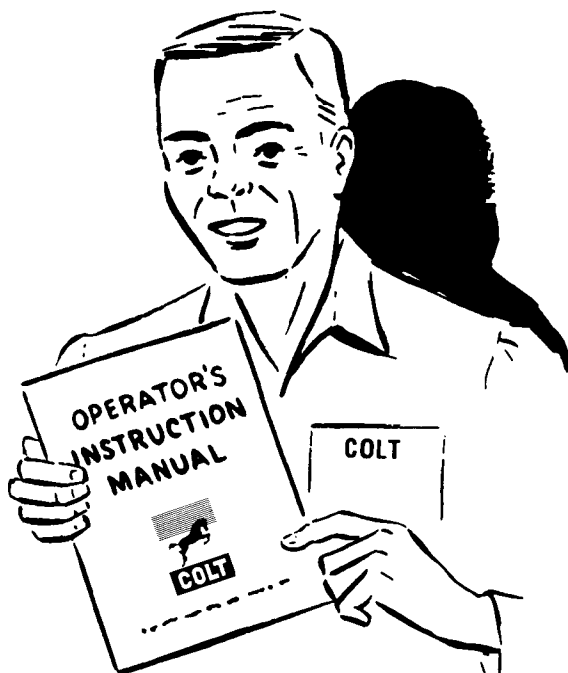
1. Place the range selector lever in the NEUTRAL position.
2. Place the PTO lever in NEUTRAL position.
3. Depress the clutch and brake pedal.
4. Close the choke by pushing the control lever down. More or less choking may be necessary due to variations in temperature, grade of fuel, etc. Little or no choking will be needed when engine is warm. In cold weather, it is advisable to position the throttle lever about one-third open.
5. Turn the starter key to the right to start engine; then release key.
6. After the engine starts and runs, push the choke control lever all the way up. Always allow engine to warm up before applying a load. Release the brake pedal slowly after engine starts. If range selector lever is in proper NEUTRAL position, tractor will not move.

### **CAUTION**

DO NOT USE THE STARTER-GENERATOR LONGER THAN 30 SECONDS WITHOUT INTERRUPTION. WAIT AT LEAST 3 MINUTES SO THE STARTER-GENERATOR CAN COOL OR SERIOUS DAMAGE COULD RESULT.

## STOPPING THE ENGINE

1. An engine that has been working under load should idle for a few minutes so the engine parts can cool evenly before it is shut off.
2. Turn starter key to "OFF" or upright position.



PREVENTIVE MAINTENANCE IS IMPORTANT TO YOU!

AS THE OWNER OF COLT TRACTOR, YOU POSSESS A MACHINE THAT IS MADE TO THE HIGHEST STANDARDS POSSIBLE.

PREVENTIVE MAINTENANCE BY YOU OR YOUR OPERATOR IS THE EASIEST AND MOST ECONOMICAL MEANS OF ASSURING MANY SATISFACTORY PRODUCTIVE HOURS OF OPERATION.

The preceding sections of this operator's manual have dealt with instructions necessary for daily operation of your Tractor. The following subjects present detailed instructions concerning the care and adjustment of the Tractor.



## STARTER-GENERATOR BELT ADJUSTMENT

The starter-generator drive belt should be checked for excessive looseness and wear after the first 10 hours of operation and each 25 hours of operation thereafter. The belt tension is correct when the belt can be depressed 1/4" (finger pressure) midway between the pulleys, Figure 8.

### IMPORTANT

Under no circumstances should a pry bar be used on the starter-generator to obtain belt tension, as damage to the bearings could result.

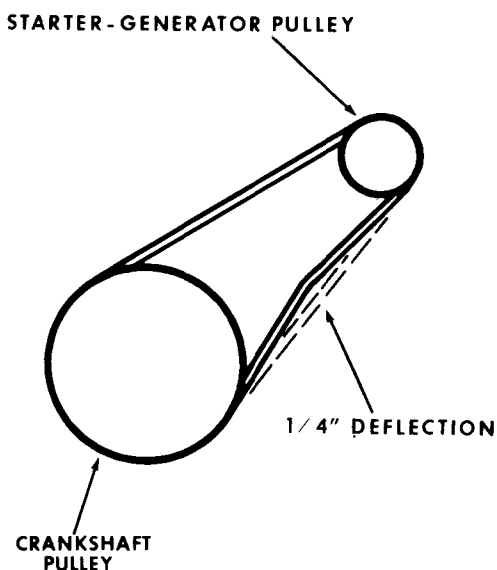
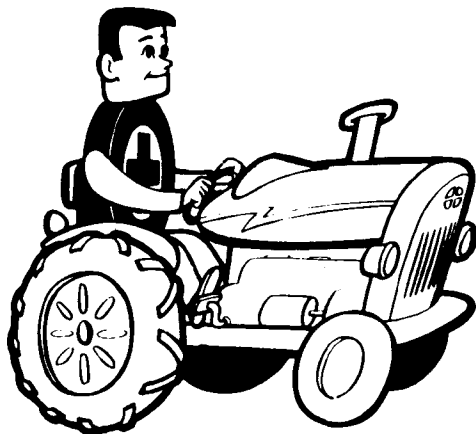


Figure 8

## STARTER-GENERATOR BELT REPLACEMENT

Loosen the adjusting bracket bolt and the two mounting bolts, swing the starter-generator toward engine and remove belt.

Install new belt and using hand pressure, pull the starter-generator outward until proper belt adjustment is obtained, Figure 10. Tighten the two mounting bolts and adjusting bracket bolt.



## BRAKE AND CLUTCH PEDAL ADJUSTMENT

**IMPORTANT** Check the clutch and brake pedal for proper adjustment every month or 100 hours of operation. Adjustment is necessary when normal pressure on the pedal will not sufficiently engage the brake band with the brake drum and stop the tractor.

1. Loosen lock lever "A" until brake pedal operates smoothly.
2. Loosen double nuts "B" on brake band link rod until combination clutch and brake pedal "C" depresses fully under "hand" pressure.



When brake is out of adjustment, excessive pressure on the pedal can cause the traction clutch to re-engage.

3. Fully depress clutch and brake pedal. Note and mark this position of pedal. Then loosen lock nut "B" and tighten adjusting nut "B" until foot pedal is raised 1" from previously marked fully depressed position.

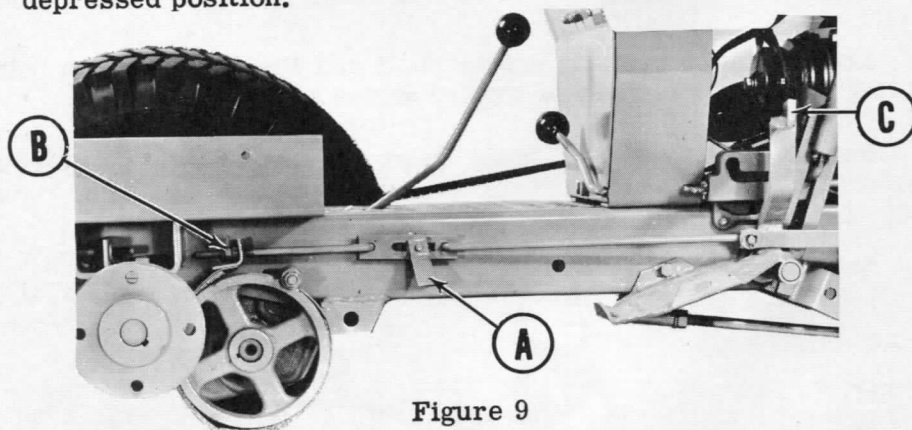


Figure 9

4. Start tractor and check clutch and brake for proper operation. The clutch should disengage just before the brake engages. Nut "B" can be tightened or loosened slightly until proper adjustment is obtained.
5. Holding the inside adjusting nut "B" in its proper position, tighten the outer nut securely.



## TRANSMISSION DRIVE BELT ADJUSTMENT

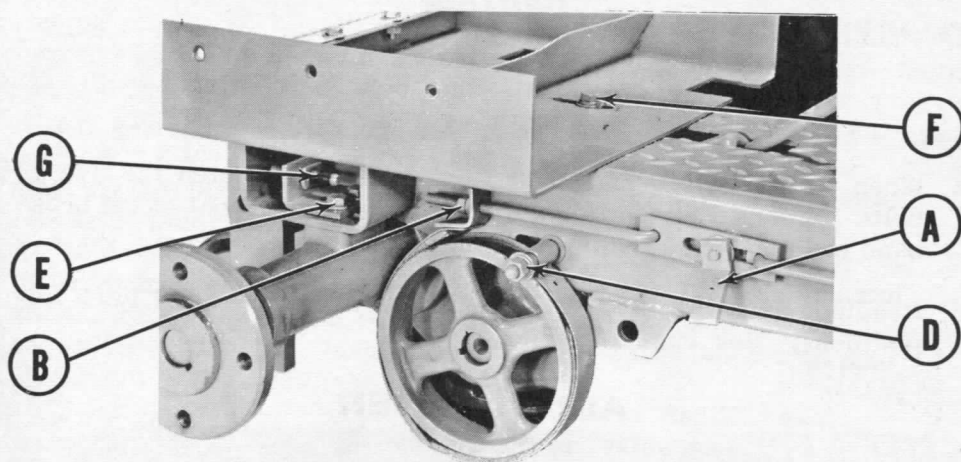


Figure 10

**NOTE** Check the transmission drive belt for proper adjustment monthly or every 100 hours of operation. The belt is under proper tension if normal finger pressure (about ten pounds) deflects the belt approximately  $\frac{1}{4}$ " midway between the pulleys. (See Figure 11.) The tension can be checked by depressing the lower belt section without removing the guard. If readjustment or replacement is necessary, proceed as follows:

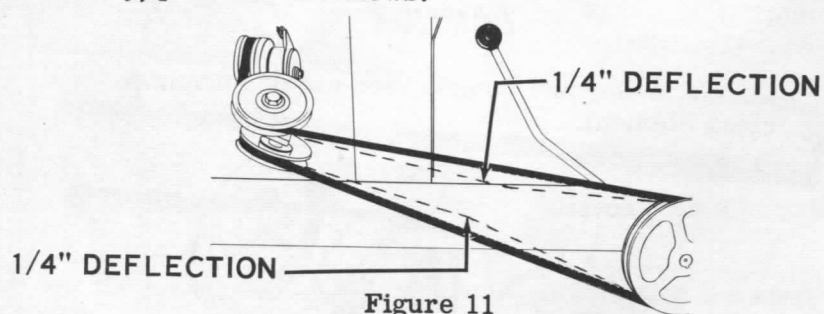


Figure 11

1. Loosen the two nuts "B" and one nut "D" on the brake band and loosen lock lever "A".
2. Loosen the four bolts "E" and one bolt "F".
3. To tighten the drive belt, turn the two bolts "G" clockwise. One bolt "G" is located on each side of the tractor. To loosen the drive belt, turn these bolts counterclockwise. It is important that these two (2) bolts be adjusted equally.

If replacing the drive belt, loosen two bolts "G" sufficiently to install the new belt without stretching or "roping" it over the pulleys.

## CAUTION

If replacing the drive belt, loosen two bolts "G" sufficiently to install the new belt without stretching or "roping" it over the pulleys.

4. When drive belt is under proper tension, retighten the five (5) bolts "E" and "F", and tighten nut "D" with the front of the brake band in light contact with the brake wheel.
5. Readjust nuts "B" and "D" as outlined in "Brake and Clutch Adjustment." See Page 16.

## AIR CLEANER

Remove and clean element after each 25 hours or weekly. Install new element every 1000 hours or yearly or when loss of power is noticeable.

To clean the element, remove the wing nut, washer, cleaner cover and remove the element. Tap element lightly on a flat surface to cause the loose dirt to fall off. Handle the paper element with care to avoid damage to element.

## CAUTION

Do not wash, use compressed air or solvent to clean element.

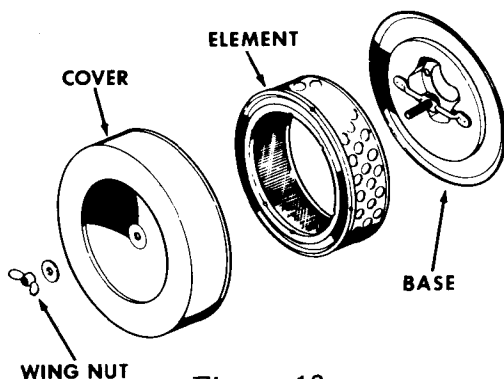


Figure 12

Replace the element with a new one if dirt does not drop off easily or if it is bent, crushed, or damaged. When replacing the element, be sure it fits snugly around the inside edge of the air cleaner base. Then replace the cover, washer and tighten the wing nut finger tight.

## ELECTRICAL SYSTEM

### Headlights

All genuine Colt 12 Volt Replacement Sealed Units have a label marked "12-V" or are stamped "12-V" on the back of the unit. This marking is placed on the unit to make sure you do not install a 6 volt sealed unit which would burn out immediately.

To install a new headlight, remove the retainer screws and retainer, Figure 13. Pull out the old unit and disconnect the wires as shown in Figure 13. Install the new gasket furnished with your replacement COLT headlight.



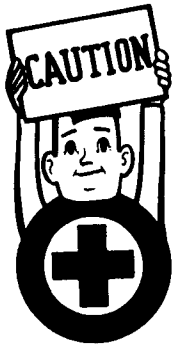
Figure 13

When installing the new sealed unit, make sure the connections are tight.



"YES, MR DEALER, IVE  
STUDIED THE MANUAL"

## STORAGE BATTERY



When working around a storage battery, remember all of its exposed metal parts are "live". Never lay a metal object across the terminals as spark or short circuit may result. Sparks, lighted matches and exposed flames must be kept away from the battery due to the presence of explosive gas in the battery.

The liquid in the battery is acid. Use care not to spill it on hands or clothing.

### Rules for Battery Care

1. Add pure or distilled water, as needed, to keep the separators covered. Check every 25 hours or weekly depending on air temperature. Normal water consumption would be approximately 1 ounce every 25 hours of operation. If it is greater, either the case is leaking or the regulator is overcharging and must be adjusted.
2. Keep the battery in a healthy state of charge as shown by hydrometer readings.
3. Make sure the battery is securely fastened in position. Cable leading from the battery should not touch cell connectors or lay on the battery container.
4. Keep the battery clean and dry.

If a battery will not hold a charge, replace it with a new one meeting the specifications as listed in the specification section.

Each week, and before adding water, take a hydrometer reading from every cell. The gravity reading from each cell should show full charge.

### NOTE

The full charge gravity reading will usually be indicated on the battery. A battery having a reading of 1.175 will freeze at approximately 0° Fahrenheit temperature.



## Adding Water

Unless the tap water in your area is "approved" (water free of scale-forming minerals), always add distilled water to the battery.

When water is added during freezing weather, the battery must receive a charge immediately to mix the water and electrolyte. If it is not mixed, the water will remain at the top and freeze.

Check the liquid level in each cell weekly by removing the vent plugs. Water must be added before the tops of the separators are exposed. DO NOT OVERFILL.

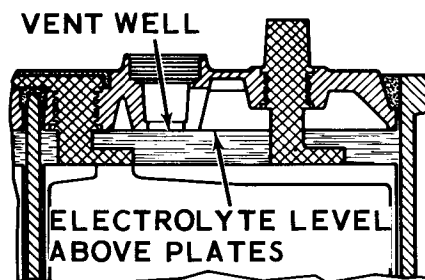


Figure 15

## Vent Plugs

Always keep the vent plugs in place and tight. Be sure the vent holes are free of dirt to prevent gas pressure in cells from breaking the sealing or the container.

## Cable Terminals and Battery Posts

The battery terminals must be kept clean and tight. A good method of cleaning terminals is to remove all excess corrosion with a wire brush, then wash with a weak baking soda solution or ammonia. After cleaning, a thin coating of vaseline or light cup grease will retard further corrosion.

## Idle Battery

When the Tractor is not in active use, the battery will require a charge at sufficient intervals to keep the hydrometer reading at or above 1.250. An idle storage battery will slowly discharge.

# WIRING DIAGRAM

## WIRE COLOR CODE

- 1 RED
- 2 YELLOW
- 3 WHITE
- 4 BLACK
- 5 GREEN
- 6 BLUE

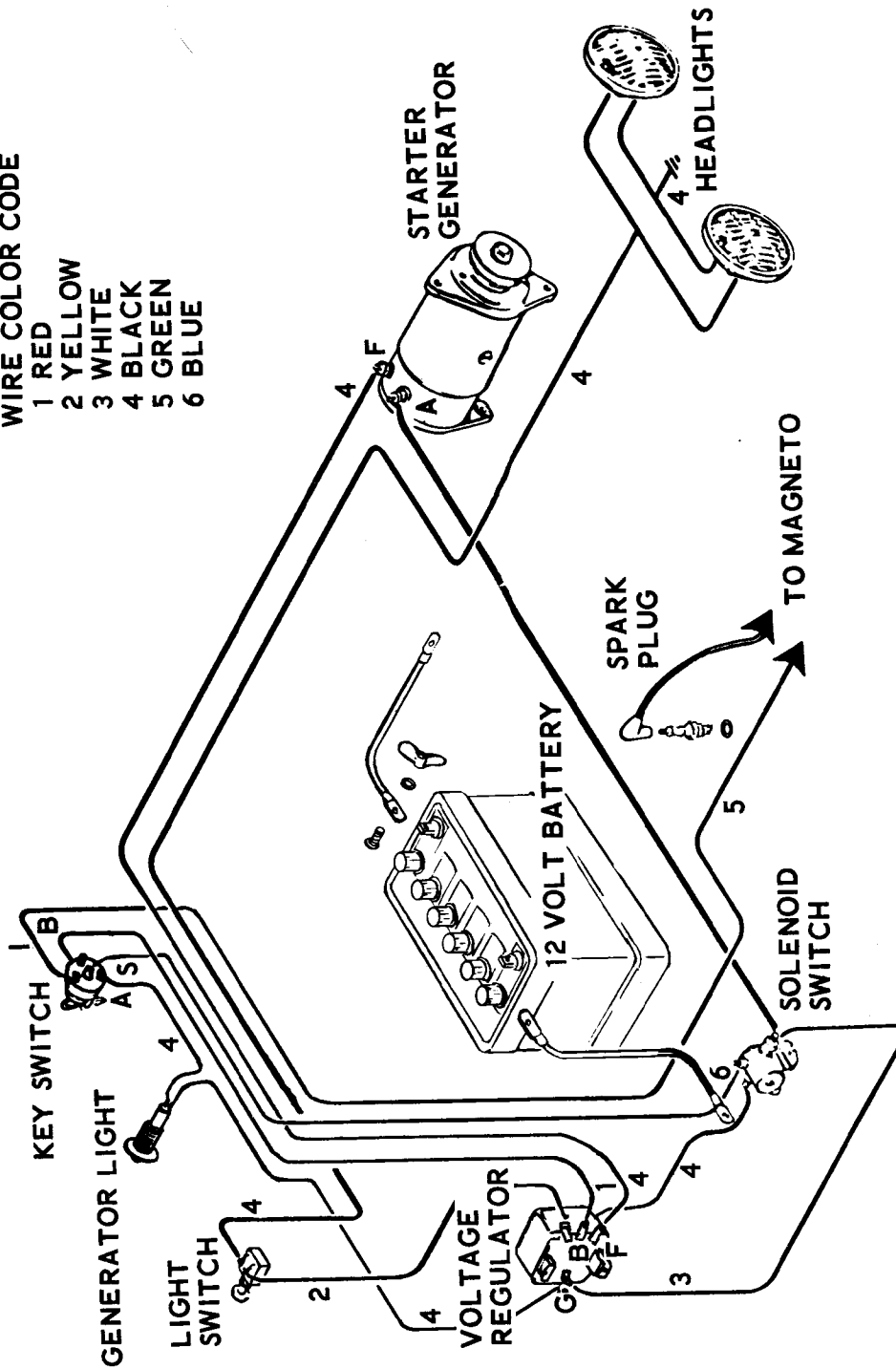
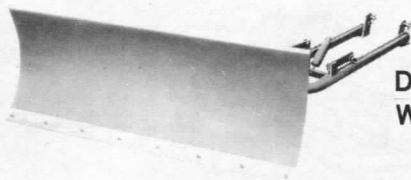


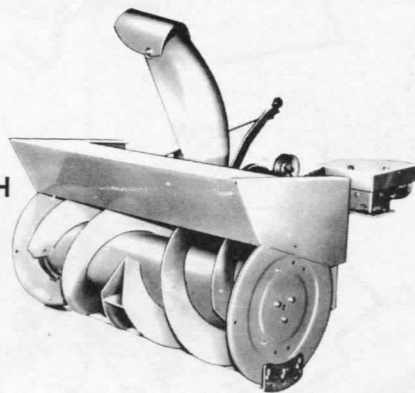
Figure 16



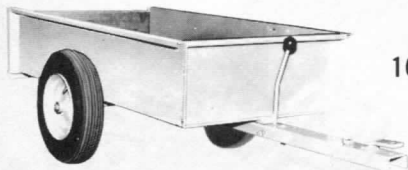
## AVAILABLE ATTACHMENTS



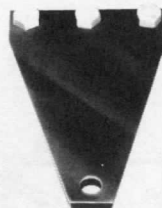
**DOZER AND SNOW BLADE  
WITH SPRING TRIP**



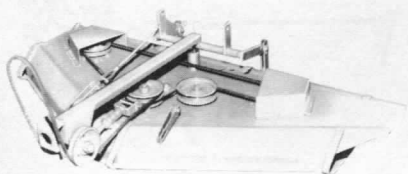
**SNOW BLOWER 36" WIDTH**



**1000 POUND CAPACITY  
DUMP CART**



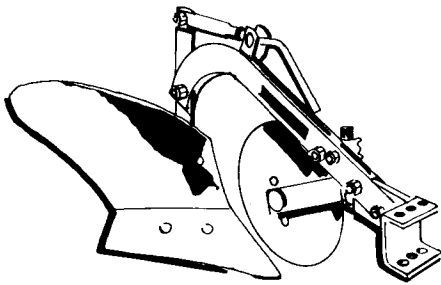
**DRAW BAR EXTENSION**



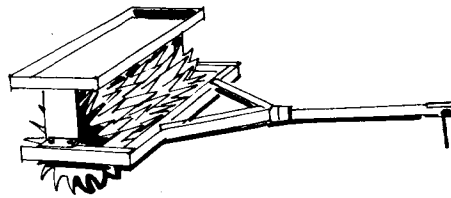
**THREE SPINDLE  
ROTARY MOWER**

**MANY OTHER USEFUL ATTACHMENTS ARE  
AVAILABLE THROUGH YOUR COLT DEALER**

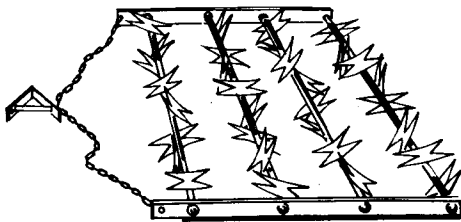
## AVAILABLE ATTACHMENTS



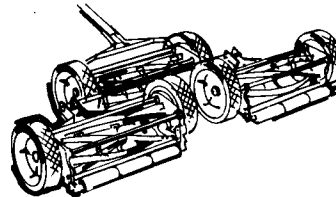
PLOW



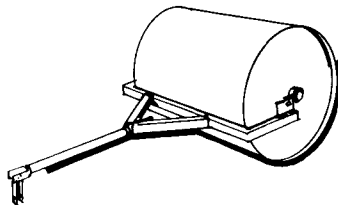
SPIKER AERATOR



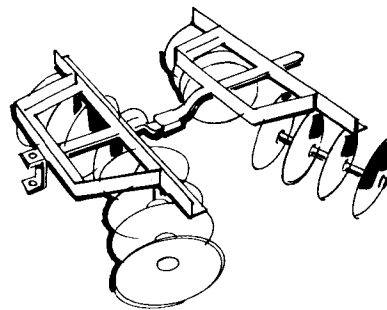
SPIKE HARROW



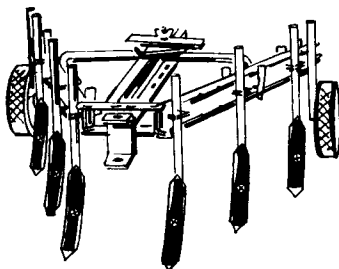
REEL MOWER



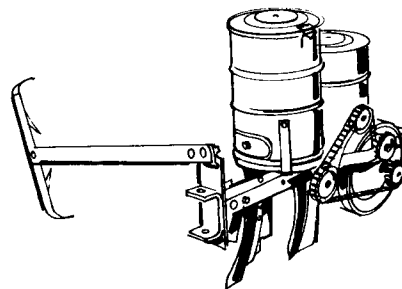
ROLLER



DISC HARROW



SPRING HARROW



SEEDER

MANY OTHER USEFUL ATTACHMENTS ARE  
AVAILABLE THROUGH YOUR COLT DEALER

**LUBRICATION AND PREVENTIVE MAINTENANCE  
RECORDS**

DESCRIPTION	HOURS

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