

3 tests necessary to check battery

RACINE, Wisc. — Neglecting to check equipment batteries can be a serious problem if left until it is too late. Three simple battery test procedures, recommended by J I Case, can determine a battery's true condition. All three tests must be done to obtain a reliable indication of overall battery usefulness.

The Specific Gravity Test tells the condition of the fluid. For an accurate reading, do not add water before using the hydrometer,

unless the level is too low to obtain a sample. If water must be added, charge the battery before making the test.

Draw enough electrolyte into the hydrometer so the indicator floats freely. The reading will be inaccurate if the indicator is touching the sides or top of the hydrometer tube. Hold the instrument at eye level to obtain a correct reading, and repeat for each battery cell.

A fully charged battery should show a specific gravity of 1.275

with electrolyte at 80° F. A variation between cells of more than 30 points (.030) indicates that the battery should be replaced. Since specific gravity readings change with temperature, most hydrometers provide a thermometer and chart to make the adjustment from 80° F. If no chart is available, add or subtract four points for every 10 degrees above or below 80°F, respectively.

If the hydrometer readings are low, charge the battery and

recheck readings before doing the next test.

The Three-Minute Charge Test will give a reliable indication of internal battery condition. This test can be performed by using the fast-charge setting on a battery charger.

Disconnect both battery cables if the battery to be tested is in the tractor. Connect the charger leads to the battery and adjust for the highest charging rate, not exceeding 40 amps for a 12-volt battery or 75 amps for a six-volt battery. on low maintenance batteries, cell caps must be

removed.

Charge for three minutes only, while watching for excessive readings. Stop the test immediately if the voltage readings are high, which indicate badly sulfated or shorted plates.

After three minutes, with the charger still running, connect a voltmeter across the terminals. The reading for a 12-volt battery should not exceed 15.5 volts and that for a six-volt battery should not exceed 7.75 volts. If higher readings are obtained, the battery is internally defective and should be replaced. (A damaged battery has high internal resistance, requiring more voltage from the charger to overcome resistance to the current flow).

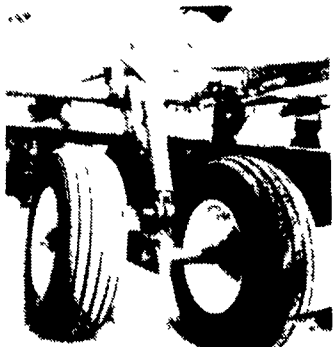
A third test, the Battery Load Test will give a reliable indication of cell condition and internal shorts. This test may be used on standard or "low maintenance" batteries.

Connect a voltmeter across the battery posts. Apply a 200-amp discharge for 15 seconds (crank engine with fuel shut off), and observe the voltmeter reading just before turning off the load.

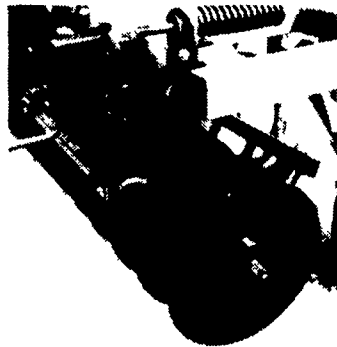
A 12-volt battery has sufficient resiliency if it maintains a voltage reading of 9.6 volts or higher. If not, the battery should be replaced.

Remember, all three tests should be performed to determine the condition and usefulness of your battery.

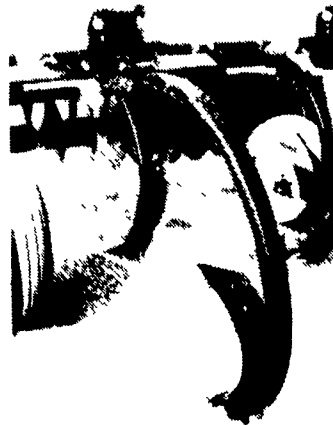
BUSH HOG[®] 1560 SOIL HOG[®] Coulter Chisel



Tandem axles are standard for all wing models—for precise depth control, greater flotation, trash clearance, and easier transport



Operating depth of the coulter blades is controlled by a hand crank—a fast and simple one-man operation



Rigid shanks are recommended for use in soils free of rocks and stumps. Shear pin protection is standard equipment. Shanks contact the soil at a reduced angle, requiring less HP and fuel.



Precise front-to-rear leveling is fast and easy with a simple turnbuckle adjustment on the tongue.

The Bush Hog 1560 Soil Hog Coulter Chisel gets into fields right after harvesting—cuts through compacted soil and residue—shatters plow sole to hold valuable winter moisture.

This rugged line of coulter chisels is designed for smooth non-stop minimum tillage. Coulter scrapers are standard equipment to eliminate plugging problems. With either rigid or spring-cushioned shanks you get 32" of trash clearance. The staggered shank arrangement provides a better soil mix—improves trash flow.

With 180° wing fold, narrow transport widths, and tandem axles, Bush Hog Coulter Chisels handle with ease during transport and are easy to store.

SPECIFICATIONS

Widths	6.3 to 26.3 (five rigid frame models, four wing models)
Coulter gang	20" diameter 7 gauge blades, 1 1/2" gang bolt, 7" blade spacing, triple lip sealed ball bearings, trunnion mounted
No coulters	11 to 43
Coulter scrapers	Standard equipment
Rigid shanks	1 1/2" x 2" w/ 32" clearance, shear bolt protection
Spring cushion shanks	1 1/2" x 2" w/ 32" clearance
Shank spacing	15"
No shanks	5 to 21
Shank Points	4" wide helical type
Tongue	2" x 4" steel tubing, 96" long— with reversible clevis, eye hitch, hose holder, and jack stand. Tongue on models 16.3 and larger is 3" x 4" tubing, 121" long.
Frame construction	4" square, all welded steel tubing
Depth control	12" ASAE hydraulic cylinders, hoses, and depth strips
Wheels	6" bolt on heavy duty hubs, 11L x 15" 8 ply tires recommended
Minimum drawbar HP recommended	75 to 315
Approximate weight	3125 to 13125 lbs. (500 lb./foot)

ALSO AVAILABLE
Trail hitch for pulling gear
Hard surface shank points
Coulter blades, 22" diameter 7 gauge

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE



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