


International 856 Tractor

Operators Manual

1082650R2

Reprinted

CASE 

 ***This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about your safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.*** SB001

IF THIS MACHINE IS USED BY AN EMPLOYEE, IS LOANED, OR IS RENTED, MAKE SURE THAT THE OPERATOR UNDERSTANDS THE TWO INSTRUCTIONS BELOW.

BEFORE THE OPERATOR STARTS THE ENGINE:

1. GIVE INSTRUCTIONS TO THE OPERATOR ON SAFE AND CORRECT USE OF THE MACHINE.
2. MAKE SURE THE OPERATOR READS AND UNDERSTANDS THE OPERATOR'S MANUAL FOR THIS MACHINE.



IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH.

BEFORE STARTING THE ENGINE, DO THE FOLLOWING:

1. READ THE OPERATOR'S MANUAL.
2. READ ALL SAFETY DECALS ON THE MACHINE.
3. CLEAR THE AREA OF OTHER PERSONS.

LEARN AND PRACTICE SAFE USE OF MACHINE CONTROLS IN A SAFE, CLEAR AREA BEFORE YOU OPERATE THIS MACHINE ON A JOB SITE.

It is your responsibility to observe pertinent laws and regulations and to follow manufacturer's instructions on machine operation and maintenance.

See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

**IMPORTANT FUEL SYSTEM SAFETY WARNING
AND
ANNOUNCEMENT OF FREE, REPLACEMENT GASOLINE CAP**



CAUTION! The following information pertains to personal safety. Be sure to read and follow these instructions.

PROBLEM — Gasoline vapors can build up pressure in your gasoline tank.

All gasoline fuels are more volatile today than ever before. They vaporize and build up pressure in your gasoline tank more easily than in the past. Winter grade gasoline is especially subject to vaporization and pressure build-up when used on hot Spring or Fall days. If you have a tractor which is out of tune or not properly maintained, it can run hotter and increase vaporization.

DANGER — Fire and personal injury.

If the fuel cap is removed when the gasoline tank is hot and vapor pressure has, under certain circumstances, built up in the tank, this sudden release of pressure could force gasoline out of the tank. If the gas cap is not fully secured and tightened, it could come off the tank, and again, gasoline could escape. This sudden eruption of gasoline exposes the operator to, and may cover him with, liquid fuel and vapors and is a clear fire hazard if a source of ignition is present. A running engine is a source of ignition, as are cigarettes, open flames, sparks or a poorly maintained exhaust system. **An immediate fire could occur.** The operator or anyone in the area could be burned and suffer serious injury or even death.

PRECAUTIONS — Observe the following steps for safe operation:

- Always tighten gas caps securely.
- Never, under any circumstances, take the gas cap off a hot or running tractor.
- Never hold over Winter gasoline for use in the Spring. Remove any equipment unnecessary for warm weather operations, such as comfort covers, heat housers, or radiator covers.
- Maintain equipment properly and pay particular attention to electrical, exhaust, fuel, and cooling systems. Repair or replace frayed electrical wires; leaky exhaust manifolds, gaskets, pipes and mufflers; damaged carburetors, sediment bowls and fuel lines. Be sure radiators are clean inside and out. Clean off any accumulation of trash, oil or grease.
- Make sure that fuel cap vent holes are not plugged, gaskets are in good condition, and that cap tangs are firmly riveted. Repair worn, bent, or deformed filler necks and damaged heat shields or shield insulation. If your tractor is not equipped with a heat shield or insulation, install such equipment on applicable models.
- Be alert to any unusual sights and sounds during operation. If you suspect overheating or pressure build-up in the fuel system, do not touch the cap. Turn off the engine and allow the tractor to cool before you touch the cap.

FREE GASOLINE CAP — See your dealer today.

International Harvester has developed a new gasoline cap designed to improve vapor venting and to inhibit the sudden eruption of liquid fuel if the safety precautions against cap removal are not observed.

New caps will be exchanged free of charge with owners of certain models of International Harvester farm tractors. To see whether your tractor already has the new cap or to arrange to obtain one, simply contact your local International Harvester dealer. Also ask him for a free International Harvester brochure "New Facts About Fuels" and for free "Warning" decals for all gasoline equipment.

Gasoline Tractor Models Included in Cap Exchange Program (See Note)			
A	100	*504	2404
AV	130	F-544 Only	2424
B	140	560	2444
BN	200	600	2504
C	230	*606	2544
H	240	650	*2606
HV	300	F-656 Only	2706
M	330	660	2756
MV	340	666	2806
O	350	686	2826
OS	400	706	2856
W	404	756	
WR	424	766	
70	444	806	
86	450	826	
	460	856	

NOTE: New cap will not fit on any of these tractors.

B-275	I-434
B-276	I-544
I -284	I-656
I -354	I-2656
B-414	

* New cap will not fit on these tractors above serial numbers shown.

F-504 above serial No. 13400
 I -504 above serial No. 14272
 I -606 above serial No. 6879
 I -2606 above serial No. 6879

New cap will not fit on any lawn and garden tractor in the Cadet model series or on any tractor with the gasoline tank behind the operator's seat.

Supplement to Operator's Manual

INTERNATIONAL® 856 TRACTORS

INTERNATIONAL® (Farmall Model)

856 Diesel

CUSTOM

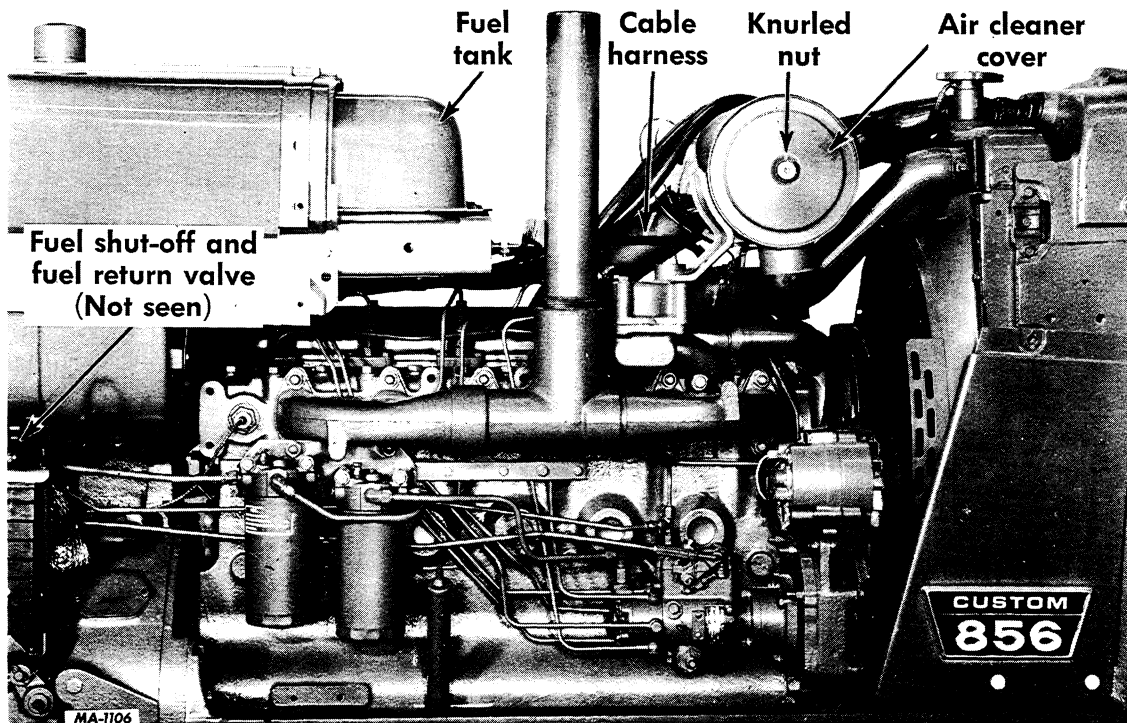
TRACTOR

Follow the same operation, lubrication, and maintenance instructions as shown for the Farmall 856 Diesel Tractors in the International 856 Tractor Operator's Manual. The following exceptions refer to the Farmall 856 Diesel Custom Tractor only.

INTERNATIONAL HARVESTER COMPANY

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DIESEL ENGINE AND FUEL SYSTEM



Fuel system on the right side of the diesel engine.

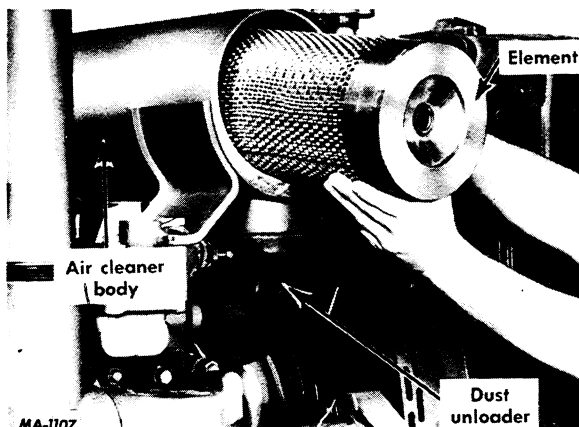
Be sure that the shut-off valve under the fuel tank is open. To prevent leakage or seepage when the valve is in the full open position, be sure to screw the needle stem (shut-off valve) out until the seat on the stem is tight against the stop.

STARTING THE ENGINE

When temperatures are above freezing, be sure the shut-off valve under the fuel tank is open.

AIR CLEANING SYSTEM

DRY-TYPE AIR CLEANER



Air cleaner and automatic unloader.

Clean air for combustion is assured by a dry-type air cleaner. The swirling action of the air entering the air cleaner body causes the large, heavy particles to pass to the outer surface and be deposited in the automatic dust unloader which intermittently unloads this dust. The air then goes through the filter element which removes the small light particles. The clean air then enters the intake manifold.

Air Cleaner Element

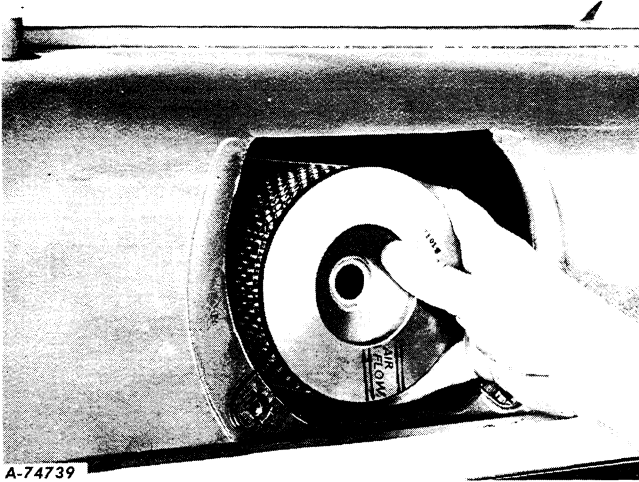
The element should be cleaned or changed when power loss becomes apparent, or when indicated by the air cleaner service indicator. A smoky exhaust may be caused by a dirty element. Replace the element after 10 cleanings or one year of service, whichever comes first.

For cleaning, inspection, and automatic dust unloader see the 856 Tractor Operator's Manual.

Removing the Element

1. Stop the engine. The engine should never be run, under any conditions, without the element in place in the air cleaner.
2. Remove the knurled nut and the cover. Remove the element wing bolt and then remove the element. Be careful not to dislodge dust from the dirty element into the clean air side or in the air cleaner outlet.

AIR CLEANING SYSTEM—Continued



Removing the filter element.

Replacing the Filter Element

Check the condition of the gasket on the inner end of the element. If this gasket is damaged replace the element instead of cleaning it. If any dust is observed on the inside of the element, replace the element with a new one.

The wing bolt used to hold the element in place, has a sealing gasket under the head of the wing bolt on the outer end of the element. Inspect the sealing gasket and if damaged replace it with a new gasket before installing the element.

Install the open end of the element into the air cleaner body. Tighten the wing bolt so the element is air tight.

Replace the body cover. Tighten the knurled cover nut, but do not overtighten.

General Precautions

As a precaution against dirt entering the engine, all joints between the air cleaner, intake manifold and between the manifold and the cylinder head of the engine must be tight. All the gaskets must be in good condition, and the bolts must be drawn up tight.

ELECTRICAL SYSTEM

LIGHTING SWITCH POSITIONS

Tractors with Fender Mounted Headlights

"OFF" - All lights turned off.

"D" Headlights on dim; bright instrument lights; a red tail light; and a warning light.

"B" Headlights on bright; bright instrument lights; a red tail light; and a warning light.

"R" Headlights on bright; bright instrument lights. NO TAIL LIGHT OR WARNING LIGHT.

Note: The red tail light should always be used when traveling on the highway at night or during times of poor visibility.

Farmall 856 Diesel Custom Tractor wiring will be the same as shown for Farmall 856 (diesel engine) except that ether solenoid and ether push button switch are not used. Ether solenoid switch cables are taped to rear harness; ether push button switch cables are coiled and secured in clip, multiple connector "A" to lighting switch "RL" terminal cable is turned back and secured in panel clip. Horn and horn button not used. Horn to horn button cable coiled and secured in clip.

The DeLuxe fender wiring diagram will be the same except that floodlights are not used, combination rear light is replaced by a tail light, combination rear light cables are turned back and taped to left fender harness. Right flood light to connector "B" cable is turned back and secured in headlight panel clip on right fender.

Connector "A" to floodlight cable is turned back and secured in headlight panel clip on left fender.

REAR WHEELS

Farmall 856 Diesel Custom Tractors are equipped with cast iron rear wheels with demountable double bead type rims commonly equipped with 16.9 - 34, R-1 tread type agricultural tires. Other tire sizes are available.

Double beaded rim	Wheel Concave	Rim and Clamp Position			
		Clamp In, Rim Out, on Outside bead	Clamp Out, Rim In, on Outside bead	Clamp Out, Rim Out, on Inside bead	Clamp In, Rim In, on Inside bead
With 100-inch axles ‡	In	58 - 80	58 - 84	62 - 88	66 - 92
	Out	62 - 88	60 - 102	70 - 96	74 - 100

‡ Heavy drawbar loads are not recommended with treads wider than 94-inches.

FRONT TIRE INFLATION PRESSURE (Pounds per Square Inch)

Tire Size	Ply Marking	Code Marking*	Without ballast in tires; Front end weights, or front mounted equipment	With maximum added Front End Weight or with Front Mounted Equipment	Remarks
9.50 L-15	6	F-2	28	32	856 Diesel Custom

Tire code marking: F-2, regular agricultural triple-rib tread.

SPECIFICATIONS

WHEELS AND TREAD	856 Diesel Custom
Tread, front	
Adjustable wide front axle (W/9.50 L - 15 tires).....	58 to 82-inches
Tread, Rear (wheels with double beaded rims)	
Wheel concaves turned in	58 to 92-inches
Wheel concaves turned out.....	62 to 100-inches

EXTRA EQUIPMENT AND ACCESSORIES

Sometime, you may wish to obtain some of the equipment or accessories shown below. These items can be purchased from, and installed by your International Harvester Dealer.

Ether starting	Protective frame with fenders
Front end weights	Wheel weights
Front end weights mounting bracket	

GROUND SPEEDS

ENGINE OPERATING AT RATED SPEED OF 2400 R.P.M. AND AT 2100 R.P.M. FOR 1000 R.P.M. AND 540 R.P.M. POWER TAKE-OFF SPEED - No allowance for tire slippage.

Farmall 856 Diesel Custom Standard Tire 16.9 - 34 R1

Miles Per Hour							
Gear		2400 r. p. m. Engine Speed			2100 r. p. m. Engine Speed		
		Forward		Reverse	Forward		Reverse
		Low	High		Low	High	
1st	Normal	1-1/2	5-3/4	2-3/4	1-1/2	5	2-1/2
	TA	1-1/4	4-1/2	2-1/4	1	3-3/4	2
2nd	Normal	2-1/4	7-1/2	3-3/4	2	6-1/2	3-1/4
	TA	1-3/4	5-3/4	3	1-1/2	5-1/4	2-1/2
3rd	Normal	3-3/4	13	6-1/2	3-1/4	11-1/2	5-1/2
	TA	3	10-1/4	5	2-1/2	9	4-1/2
4th	Normal	5	17-1/2	8-1/2	4-1/4	15-1/4	7-1/2
	TA	4	13-1/2	6-3/4	3-1/2	12	5-3/4

Note: Ground speeds with 15.5 - 38 R-1 tires is 2-1/2 per cent higher; with 15.5 - 38 R-2 tires 8 per cent higher.

CAPACITIES (U.S. MEASURE - APPROXIMATE)	856 Diesel Custom
Fuel Tank	33 gal.

Supplement to Operator's Manuals

1 082 649 R2 - Rev. 5 - International 756 Tractor
1 082 650 R2 - Rev. 7 - International 856 Tractor
1 082 915 R1 - International 1026 Tractor

DIFFERENTIAL LOCK

Your tractor may be equipped with a hydraulically operated differential lock that will turn both rear wheels at the same speed preventing the usual loss of traction when one wheel slips. It is intended for off-road use.

When one wheel starts to slip, engage the differential lock by depressing the operating pedal located at the right-rear side of the platform .

The lock will remain engaged until the pedal is released. The front wheels should be in the straight ahead position when engaging or disengaging the differential lock.

Note: The differential lock should not be engaged when driving on the road or at high speeds. Do not engage the differential lock when turning the tractor. If the lock is engaged when turning, there could be a loss of steering control.

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