



International Harvester

Operator's Manual

UC-221 & UC263

**Engines and
Power Units**

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Operator's Manual

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OPERATOR'S MANUAL

UC-221 AND UC-263
ENGINE AND
ATTACHMENTS
FORM 1 085 201 R3
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CONTENTS

	Pages
INTRODUCTION	3 to 5
Ventilation for engines installed inside of buildings	4
Suggested engine and fuel tank arrangements	4, 5
DESCRIPTION	6 to 10
Specifications and capacities	6, 7
Operating controls and instruments	7 to 10
OPERATION	11 to 15
Before starting a new engine	11
Lubrication when shipped	11, 12
Precautions	12
Liquefied petroleum gas or natural gas engines	12
Preparing the engine for each day's work	13
Operating the engine	14
Starting the engine	14, 15
Instrument check	15
Stopping the engine	15
SCHEDULED MAINTENANCE	16 to 24
Scheduled	16, 17
Periodic	17
Lubrication	18 to 24
Lubrication specifications and capacities chart	19
Lubrication guide (engine)	20, 21
Lubrication guide (power take-off)	22, 23
MAINTENANCE	24 to 57
Preparing for cold weather	24
Preparing for hot weather	25
Cooling system	25 to 32
Radiator Type	25
Flo-Matic Type	25
Care of the Cooling System	26
Anti-Freeze Solutions	26
Cooling Conditioners	26
Water	27
Preventive Maintenance	27
Important	27
Radiator Cap	28
Draining the Cooling System	28
Cleaning the Cooling System	29
Cleaning the Radiator Core	29
Filling the Cooling System	29
Thermostat	30, 31
Water Pump	31
Flo-Matic Valve	31, 32
Belt	33, 34
Air cleaner	34, 35
Cleaning the oil cup	34
Washing the air cleaner	35
Air intake cap	35
Crankcase breather	35
Lubricating oil filter	35
Hand cranking	36
Valve clearance adjustment	36

CONTENTS

	Pages
Electrical system	38 to 44
Alternator	38
Regulator	38
Cranking motor	39
Ignition coil	39
Spark plugs	39
Spark plug cables	40
Storage battery	40
Distributor	40, 41
Wiring diagram	42 to 45
Regular gauges	42, 43
Safety gauges	44, 45
Fuel system (gasoline)	46 to 48
Carburetor	46, 47
Fuel pump (mechanical)	47
Fuel pump (electric)	48
Cleaning the filter screen	48
Fuel system (natural gas)	49
Adjusting the carburetor and regulator	49, 50
Fuel system (liquefied petroleum gas)	50 to 52
Adjusting the carburetor and regulator	50
Fuel filter	50
Governor Adjustment	52 to 55
Variable Speed	52, 53
Constant Speed	54, 55
Power take-off clutch	56, 57
Storing the engine	57, 58
Preparing stored engine for service	58, 59 [®]

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IPA-52218C

Illust. 1
Right Front View of the UC-221 or UC-263 Engine
with Various Attachments.



IPA-52219 B

Illust. 2
Left Rear View of the UC-221 or UC-263 Engine
with Various Attachments.

DESCRIPTION

SPECIFICATIONS AND CAPACITIES

Capacities (U.S. Measure)

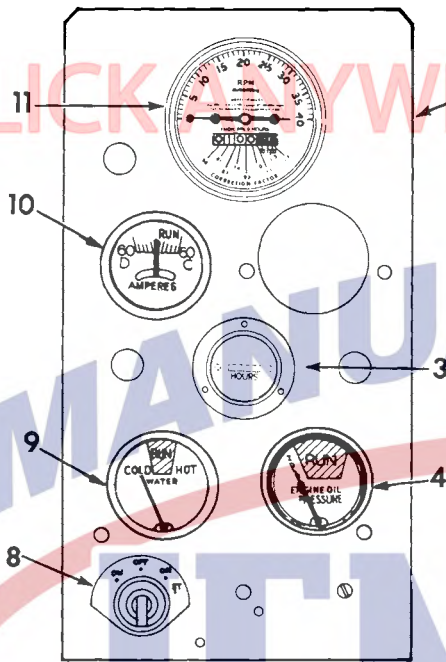
Air cleaner oil cup (wet type)	2-3/4 pts.
Cooling system:	
Radiator type	25 qts.
Flo-matic type	69 qts.
Crankcase oil pan:	
Without filter	8 qts.
With filter	9 qts.

The capacities which appear throughout this manual are specifically for these engines and their attachments.

Specifications

<u>Engine</u>	
Cylinders	6
Bore	3.562 in.
Stroke:	
UC-221	3.688 in.
UC-263	4.390 in.
Displacement:	
UC-221	220.5 cu. in.
UC-263	262.5 cu. in.
Carburetor:	
Gasoline	IH
LPG	Impco
Natural Gas	Impco
Distributor:	
Dwell	31° to 37°
Point gap	.019 to .023 in.
Engine speeds:	
Full load governed	*
High idle	*
Low idle (gasoline)	500 ± 25 RPM
Low idle (LPG or natural gas)	600 ± 25 RPM
Spark plug gap:	
Gasoline	.023 to .028 in.
LPG or natural gas	.015 to .020 in.
Fan belt tension at midpoint between:	
Alternator and fan pulleys:	
New	13/32 in.
Used	7/16 in.
Fan and crankshaft pulleys:	
New	1/2 in.
Used	17/32 in.
Valve clearance:	
Engine cold	.027 in.
Electrical system	12 volt, negative ground
Firing order	1, 5, 3, 6, 2, 4

*Optional engine speeds are available. The high idle and full load governed speeds for which this engine is equipped and adjusted is stamped on the serial number plate located on the flywheel housing.



CEA-84738B

Illust. 6
Instrument Panel (Regular Gauges).

1. PANEL, instrument.
3. HOURMETER.
4. GAUGE, engine oil pressure.
5. KNOB, governor control.
6. BUTTON, choke control.
8. SWITCH, ignition and starter.
9. GAUGE, engine coolant temperature.
10. AMMETER.
11. TACHOURMETER.

Engine Oil Pressure Gauge

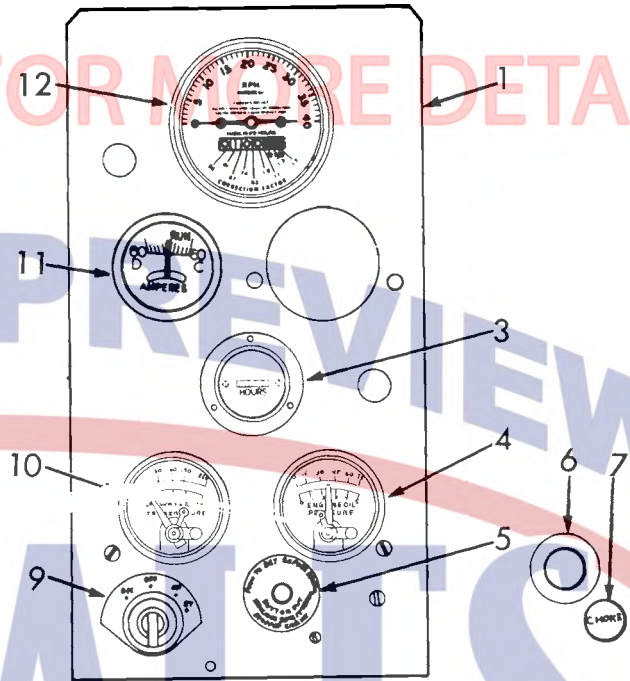
This instrument registers the pressure of the lubricating oil circulating through the engine.

Safety Engine Oil Pressure Gauge

This gauge is part of the instrument panel (safety gauges) attachment. The safety engine oil pressure gauge shows the pressure of the lubricating oil circulating through the engine. If the oil pressure drops below minimum operating pressure, the engine will automatically stop.

Engine Coolant Temperature Gauge

This gauge shows the temperature of the coolant circulating in the engine.



CEA-84739C

Illust. 7
Instrument Panel (Safety Gauges).

1. PANEL, instrument.
3. HOURMETER.
4. GAUGE, safety engine oil pressure.
5. SWITCH, ignition relay.
6. KNOB, governor control.
7. BUTTON, choke control.
9. SWITCH, ignition and starter.
10. GAUGE, engine coolant temperature safety.
11. AMMETER.
12. TACHOURMETER.

Engine Coolant Temperature Safety Gauge

This gauge is part of the instrument panel (safety gauge) attachment. This gauge registers the temperature of the coolant circulating in the engine. If the temperature of the coolant reaches 195°F, the engine will automatically stop.

Ammeter

This instrument indicates the rate at which the battery is being charged or discharged.