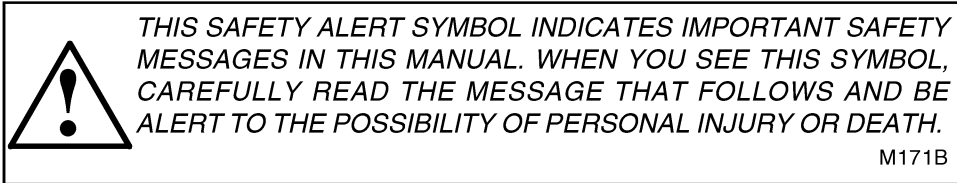


**International
3414
Loader Tractor
Operator's Manual**

1019764R4

Reprinted








If Safety Decals on this machine use the words **Danger, Warning or Caution**, which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation which if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates a potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates a potentially hazardous situation which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as   and  if used, are RED.



WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.



OPERATOR'S MANUAL ¹⁶

INTERNATIONAL[®]

3414

Loader Tractor

**OPERATION
MAINTENANCE
LUBRICATION**



To The Owner

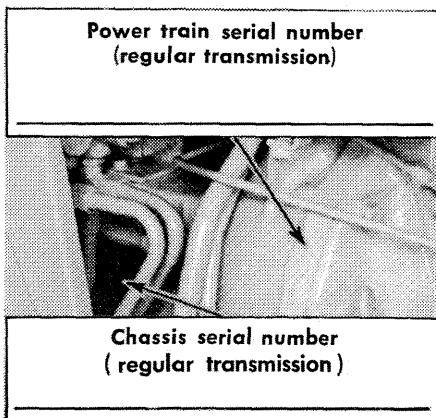
Your new International Harvester loader tractor is designed to meet today's exacting operating requirements. The ease and comfort of operation, the ability to match ground speeds to engine power and work requirements, and the effortless versatility of the hydraulic system are intended to lighten your work and shorten your hours on the job.

Your local International Harvester dealer is interested in the performance you receive from this loader tractor. He has factory-trained servicemen, informed in the latest method of servicing loader tractors, and modern tools, and original-equipment IH service parts which assure proper fit and good performance.

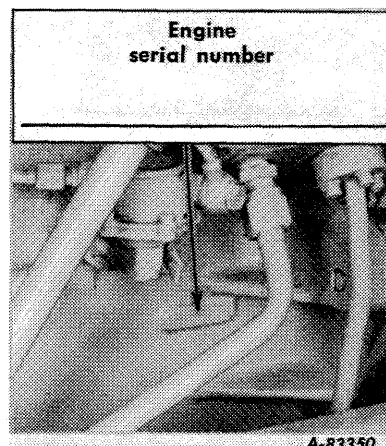
To obtain top performance and assure economical operation the loader tractor should be inspected, depending on its use, periodically, or at least once a year, by your International Harvester Dealer.

Before you operate the loader tractor study this manual carefully. It has been prepared to help you operate and maintain your loader tractor with utmost efficiency. New copies may be ordered from your dealer at a nominal price.

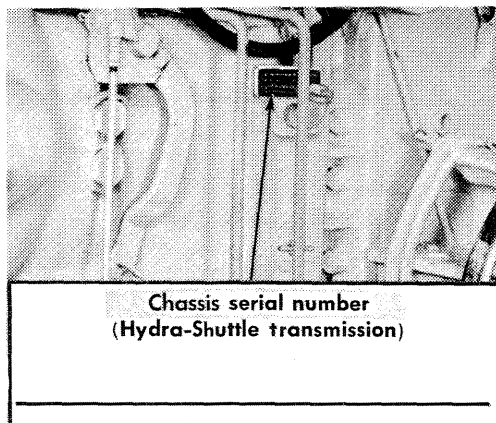
When in need of parts, always specify the chassis, power train, and engine serial numbers, including prefix and suffix letters. Write these serial numbers in the spaces provided below.



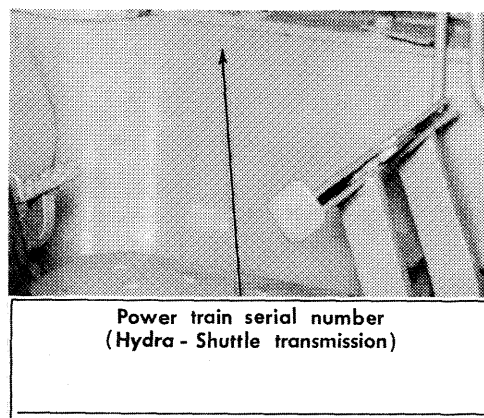
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TABLE OF CONTENTS

INTRODUCTION 3

INSTRUMENTS AND CONTROLS 4

Brake Pedals	5
Clutch Pedal (Regular Transmission and Forward and Reverse Drive)	5
Clutch and Accelerator Pedals (Hydra-Shuttle Transmission)	5
Differential Lock Pedal	5
Gearshift Lever	5
Hi-Lo Selector Lever	6
Forward and Reverse Drive Lever	6
Choke Control Button	6
Fuel Shut-Off Control Rod (Diesel Engine)	6
Engine Speed Control Lever	6
Accelerator Pedal (Regular Transmission and Forward and Reverse Drive)	6
Ignition Switch (Gasoline Engine)	7
Key Switch (Diesel Engine)	7
Push Button Starting Switch	7
Glow Plug Switch Button (Diesel Engine)	7
Glow Plug Indicator (Diesel Engine)	7
Lighting Switch	7
Hydraulic System Control Levers	7
Power Take-Off Shifter Lever	7
Horn Button	7
Oil Pressure Tellite	8
Generator Tellite	8
Fuel Gauge	9
Instruments for Hydra-Shuttle Transmission	8
Temperature Gauge	8
Speedometer-Tachometer	9
Cigarette Lighter	9
Bucket Level Indicator	9

BEFORE OPERATING THE LOADER TRACTOR 9

Lubrication	9
Pneumatic Tires	10
Engine Cooling System	10
Fuel System	10
Instruments and Controls	10
Hydraulic System	10
Hydra-Shuttle Transmission	11
Counterweight, Rear	11
Loader Tractor "Break-in"	11

PREPARING FOR EACH DAY'S WORK 11

After Every 10 Hours of Operation	11
Filling the Fuel Tank	11

GASOLINE ENGINE AND FUEL SYSTEM 12

Fuel System	12
Starting the Engine	12
After the Engine Starts	12
Stopping the Engine	12
Cleaning the Fuel Strainer and Sediment Bowl	14
Carburetor	14

DIESEL ENGINE AND FUEL SYSTEM 15

Fuel System	15
Venting the Fuel System	16
Starting the Engine	16, 17
After the Engine Starts	17
Exhaust Smoke Table	17
Stopping the Engine	17
Diesel Fuel Specification Requirements	18
Fuel Storage	19
Fuel Strainer and Water Trap	19
Fuel Filter	19, 20
Fuel Injection Pump	20
Injection Pump Governor	20

DRIVING AND OPERATING THE LOADER TRACTOR 21

Safe Ideas for Every Workday	21, 22, 23
Seat	24
Starting the Loader Tractor (Regular Transmission and Forward and Reverse Drive)	24
Steering the Loader Tractor	25
Differential Lock	25
Stopping the Loader Tractor (Regular Transmission and Forward and Reverse Drive)	25
Locking the Brakes	25
Forward and Reverse Drive	26
Hydra-Shuttle Transmission	26
Towing the Loader Tractor	27
Loading Hints and Procedures	27, 28

HYDRAULIC SYSTEM 29

Hydrostatic Power Steering	29, 30
Boom and Bucket Control Levers	30
Relief Valve	31
Three-Point Hitch	31 to 34
Auxiliary Valves	35

**HITCHING TRAILING EQUIPMENT
TO THE LOADER TRACTOR 36**

POWER TAKE-OFF 37

COOLING SYSTEM 38

- Filling the Cooling System 38
- Adding Water to the Cooling System . . 38
- Cleaning the Cooling System 38, 39
- Rust Prevention 39
- Radiator Core 39
- Water Pump and Fan Belt Tension . . . 40
- Generator Belt Tension 40

AIR CLEANING SYSTEM 41

- Air Cleaner Cup Service 41
- Washing the Air Cleaner 41
- Pre-Screener 41
- Pre-Cleaner, Pre-Screener 41
- General Precautions 41

ELECTRICAL SYSTEM 42

- Gasoline Engine Loader Tractor 42 to 48
- Spark Plugs and Cables 42
- Distributor 42, 43
- Coil 43
- Timing the Distributor to the
Engine (Engine not Running) 43, 44
- Power Timing Light (Engine
Running) 44
- Electrical Wiring Diagrams 45 to 48
- Diesel Engine Loader Tractor 49,50,51
- Glow Plugs and Indicator 49
- Electrical Wiring Diagrams 50, 51
- Gasoline and Diesel Engine
Loader Tractors 52 to 57
- Generator and Regulator 52
- Headlights 52
- Combination Rear Light and
Taillight 52
- Oil Pressure Tellite 53
- Generator Tellite 53
- Break-away Connector Socket 53
- Fuse 53
- Battery 54
- Electric Lighting Wiring Diagram . . . 55 to 57

**MINOR ENGINE SERVICE
OPERATIONS 58**

- Cylinder Head Gasket 58
- Crankshaft Bearings, Pistons,
and Rings 58
- Valve Clearance Adjustment 58, 59

BRAKES 59

- Brake Adjustment 59

CLUTCHES 60

- Engine Clutch (Regular Trans-
mission and Forward and
Reverse Drive) 60
- Hydra-Shuttle Transmission 60, 61

PNEUMATIC TIRES 61

- Tire Chains 61

STORING THE LOADER TRACTOR 62

- Storage 62
- Removing from Storage 62, 63

COLD WEATHER PRECAUTIONS 63

- Fuel System 63
- Lubrication 63
- Cooling System 63, 64

TROUBLE SHOOTING 64

LUBRICATION 73

- Oil Pump 73
- Engine Oil 73
- To Aid Starting 74
- Gear Lubricant 74
- Lubrication Fitting Grease 74
- Full Flow Oil Filter 74, 75
- Orifice Filter (For Hydraulic Lift) . . 75
- Changing the Hydraulic Fluid in
the Reservoir and Three-Point
Hitch 75, 76
- Changing Hydraulic Fluid Filter
in the Reservoir 76
- Changing the Hydraulic Fluid in the
Hydra-Shuttle Transmission 76, 77
- Changing the Hydraulic Fluid Filter
for the Hydra-Shuttle Trans-
mission 77
- Greasing the Front Wheels 77

LUBRICATION TABLE 78

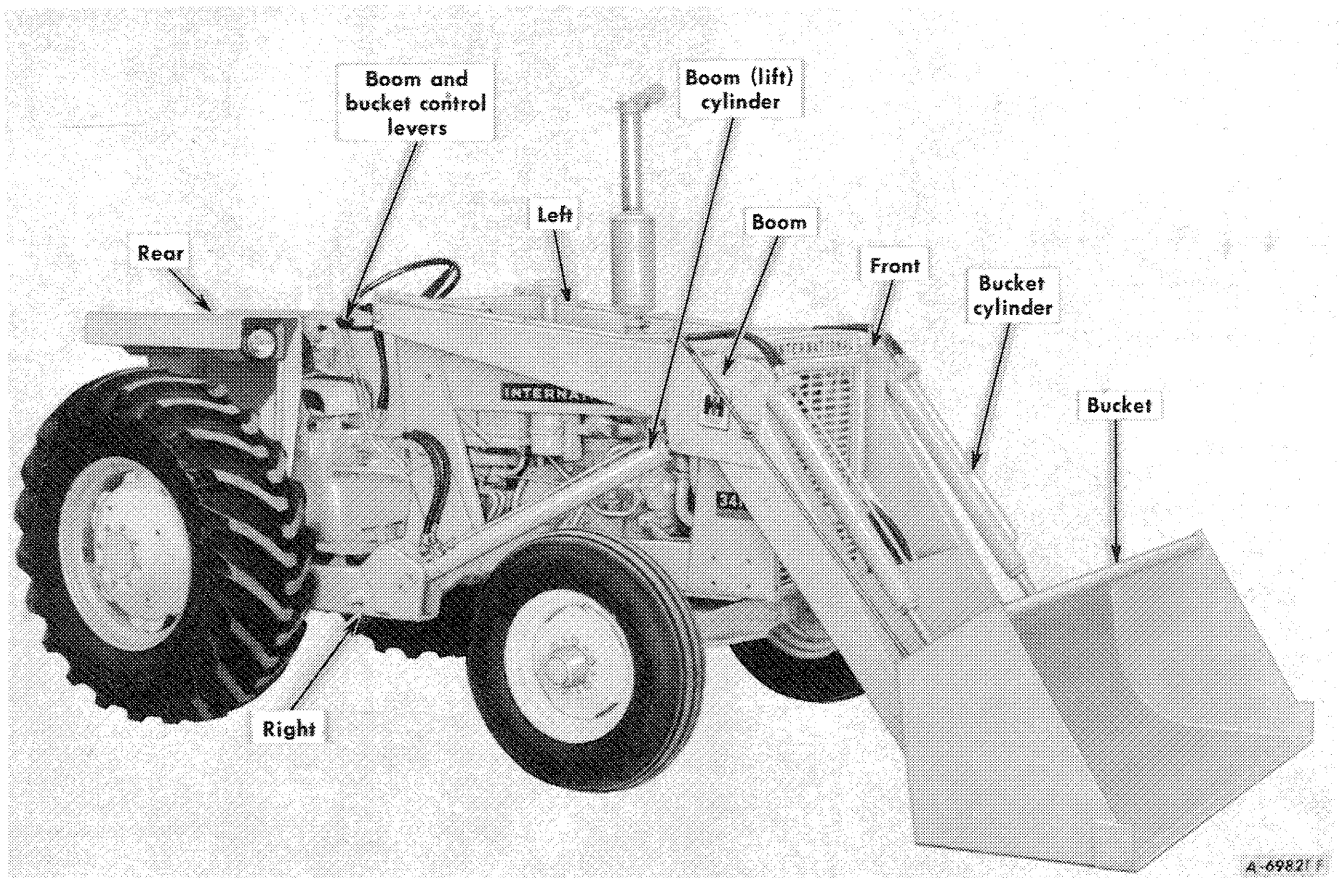
LUBRICATION GUIDE 79

PREVENTIVE MAINTENANCE GUIDE 83

SPECIFICATIONS 84

**EXTRA EQUIPMENT
AND ACCESSORIES 88**

INTRODUCTION



Illust. 3

Terms and location of units.

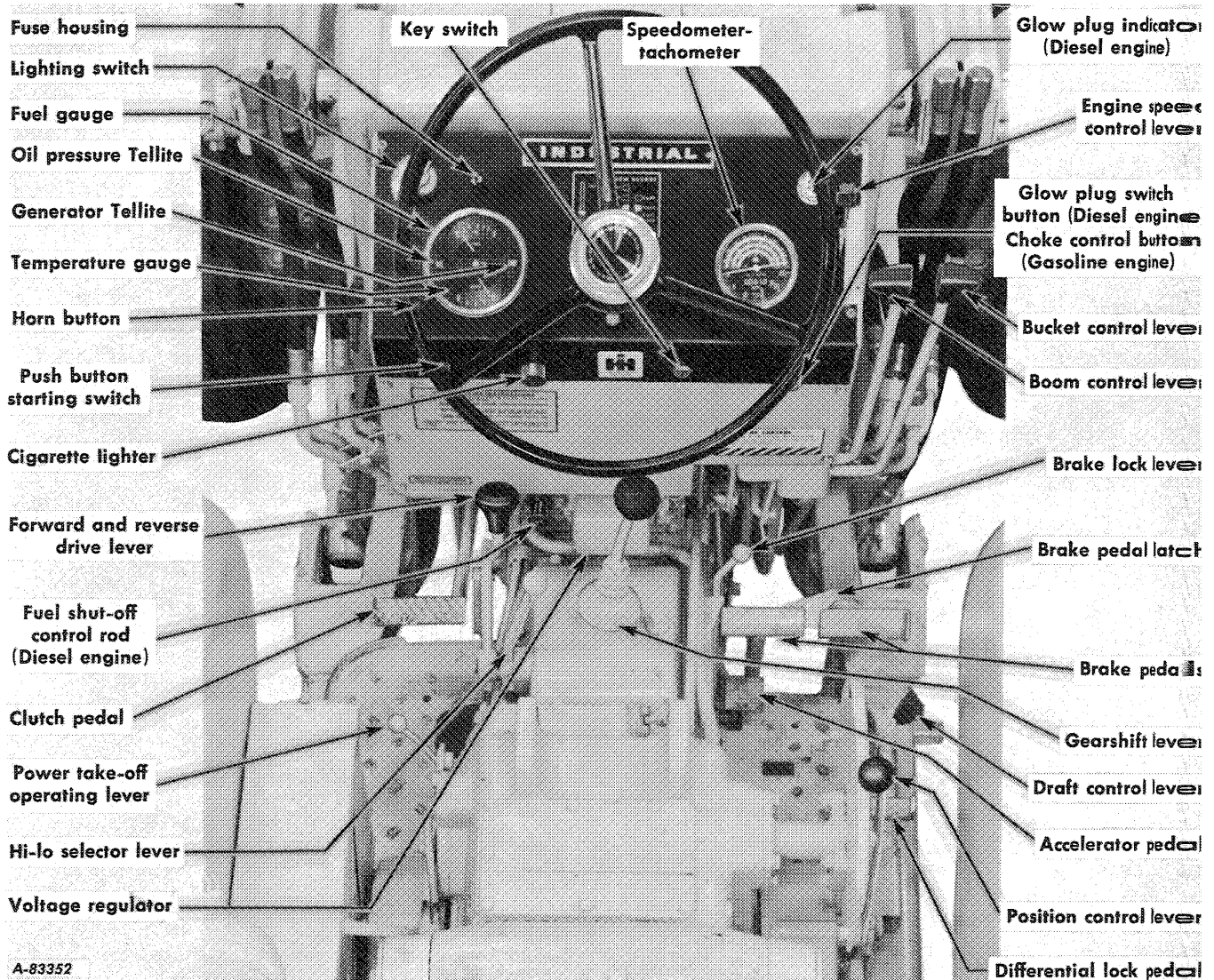
Assembled in this manual are operation, lubrication, and maintenance instructions for the International 3414 Loader Tractor.

In order to provide a loader tractor equipped as nearly as possible to suit each customer's needs, a variety of extra equipment and accessories is available. See page 88. Operating and maintenance instructions on these items are included in the instructions for operating or maintaining the loader tractor. Disregard the instructions for equipment not on your machine.

The illustrations in this manual are numbered to correspond with the pages on which they appear; for example, Illust. 4 is on page 4.

LEFT and RIGHT indicate the left and right sides of the loader tractor when facing forward in the driver's seat. See Illust. 3.

INSTRUMENTS AND CONTROLS



Illust. 4
Instrument panel on loader tractor.

INSTRUMENTS AND CONTROLS

BRAKE PEDALS

These pedals are used to stop the loader tractor, to hold the loader tractor in a stationary position, or to assist in making sharp turns as outlined below.

The brake pedal latch (Illustr. 4) is used to latch both brake pedals together, causing the brakes to operate simultaneously.

To stop the loader tractor, depress both pedals at the same time.

To hold the loader tractor in a stationary position, latch the pedals together, depress them, and lock them in this depressed position by using the brake pedal lock lever (Illustr. 4).

To assist in making a sharp turn, operate the pedals individually, depressing the pedal on the side toward which the turn is to be made.

Caution! Always latch the brake pedals together before driving the loader tractor in the two highest gears in high range. To latch the pedals together, engage the latch in the back of the left pedal (Illustr. 4) into the slot in the back of the right pedal. When the brake pedals are not latched together, the latch should rest in the slot in back of the left brake pedal.

CLUTCH PEDAL (Regular Transmission and Forward and Reverse Drive)

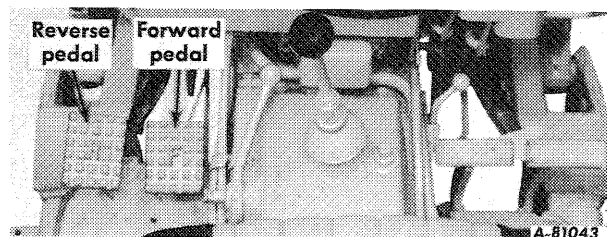
This pedal disengages the engine from the transmission and also the power take-off.

Loader tractors with the continuous-running power take-off have a dual clutch. The clutch pedal disengages the engine from the transmission when it is depressed part way down. It also disengages the power take-off when it is depressed all the way down. This enables the operator to shift gears or stop the loader tractor without disengaging the power take-off.

The power take-off used on loader tractors with the forward and reverse drive is a transmission-driven type, with a single clutch, and cannot be disengaged separately.

Caution! Always engage the clutch slowly.

CLUTCH AND ACCELERATOR PEDALS (Hydra-Shuttle Transmission)



Illustr. 5
Operating pedals on loader tractor with
Hydra-Shuttle transmission.

These pedals, on the left side (Illustr. 5), engage the forward and reverse clutches hydraulically during the first part of their travel, and also function as foot accelerators to control the engine speed during the remainder of their travel. They provide a quick reversal through a torque converter drive, with a selection of six forward and six 25 percent faster reverse speeds.

Depress the inside pedal "F" to go forward and the outside pedal "R" to go rearward. When both pedals are depressed together, they function as a foot accelerator without engaging either clutch.

DIFFERENTIAL LOCK PEDAL

This pedal engages a differential lock which locks the two rear wheels together to overcome individual wheel slippage and improve traction. To engage the lock, press the pedal down with the heel all the way. See page 25 for operating instructions.

GEARSHIFT LEVER

The gearshift lever (Illustr. 4) is used to select any one of four forward gears or one reverse gear with the regularly equipped transmission. A shifting diagram is cast in the top of the transmission gear case cover.

When the loader tractor is equipped with forward and reverse drive, the gearshift lever is used to select any one of four forward gears only; reverse gear is obtained by use of the forward and reverse drive lever.

When the loader tractor is equipped with the Hydra-Shuttle transmission, the gearshift lever is used to select any one of three forward gears only; reverse gear is obtained by use of the reverse drive pedal.

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