

# **OPERATOR'S MANUAL**

**INTERNATIONAL®**

**553 + 654**

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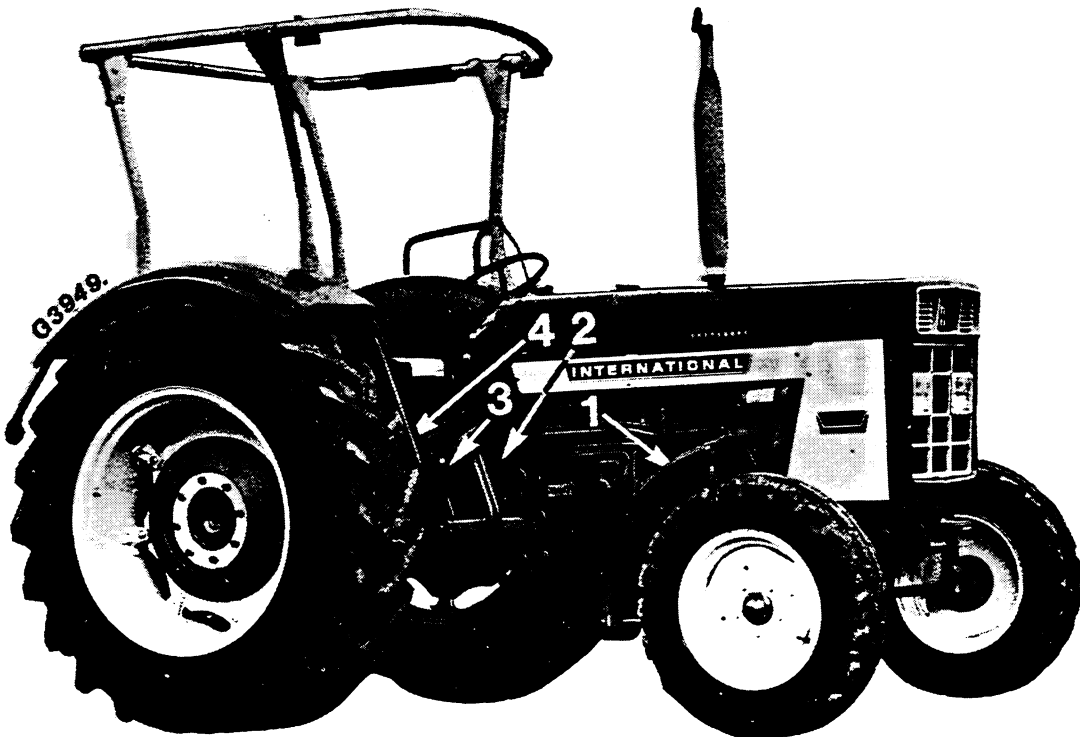
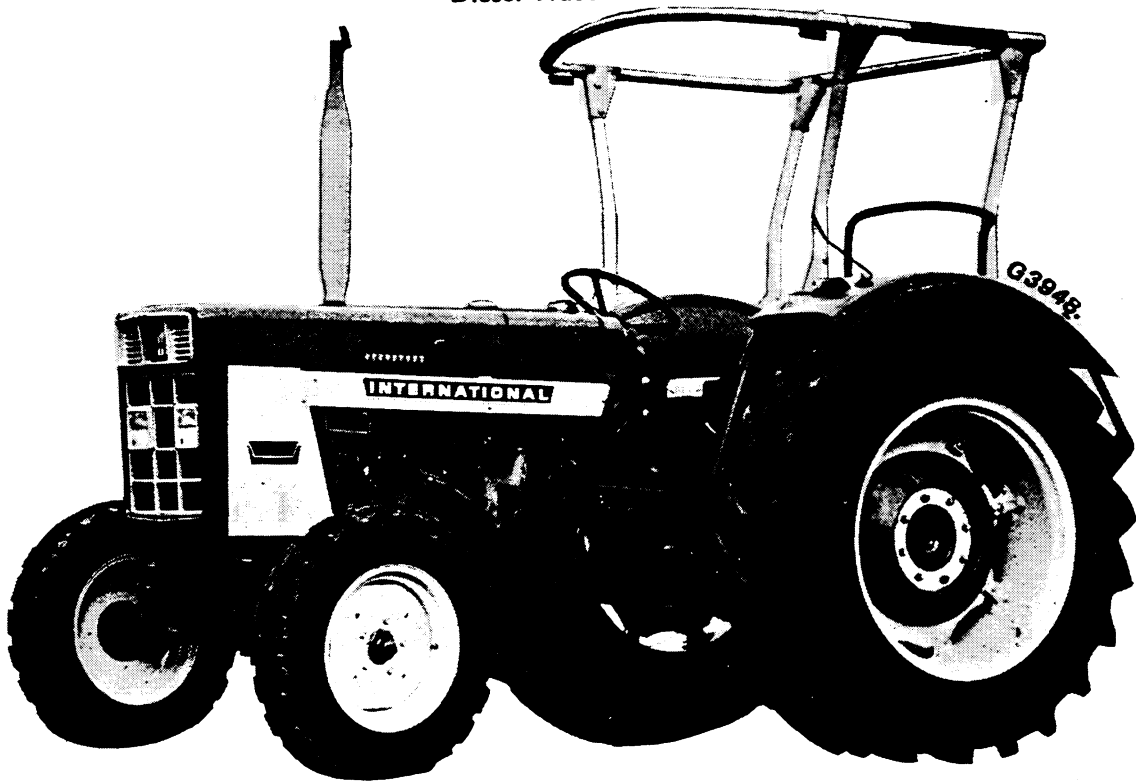
**DIESEL TRACTOR**

**INTERNATIONAL HARVESTER COMPANY M. B. H.**

**NEUSS / RHINE AND HEIDELBERG**



**INTERNATIONAL  
Diesel Tractors**



1 – Engine Serial Number .....  
2 – Chassis Serial Number .....

3 – Transmission Serial Number .....  
4 – Draft Control Serial Number .....

## TABLE OF CONTENTS

This Operator's Manual consists of the following major sections:

### **Introduction and Technical Data**

(from page 6 up)

**Contents:** Alphabetical index, specifications for engine, fuel injection system, electrical system, capacities, dimensions, travelling speeds, tire sizes and tire pressures, recommended lubricants.

### **Operating the machine**

(from page 17 up)

**Contents:** Preparing for each day's work. Description of instruments and controls. Starting and shutting down the engine. Operating techniques. Instructions for travelling, towing, parking. Three point Hitch, Drawbar, Draft- and Position Control, Front Loader, Belt Pulley.

### **Maintenance**

(from page 42 up)

**Contents:** Periodic maintenance schedule Inspections, lubrication guide. Preventive maintenance, Instructions for filter change, oil change and greasing. Description and minor adjustments of fuel injection system, cooling system, hydraulic system, brake system, electrical system. Recommended precautions for storing and housing the machine, trouble shooting charts and safety rules are also included.

**Caution:** Maintenance operations as described in this manual can, as a rule, be made by the operator himself. It is, however, strongly recommended to let your dealer's servicemen take care of such operations as repair and adjustments on fuel injection system, brake system, hydraulic system, steering gear, drive shafts, electrical system.



***Safety rules are given for your protection, it pays to observe them.***



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## GENERAL INSTRUCTIONS AND PRECAUTIONS

1. Before starting the tractor, familiarize yourself with its instruments and controls. For your protection you are advised to observe the instructions in this manual. It is good practice to operate all levers on the standing tractor.
2. Avoid subjecting the new tractor to full load. The engine should not be loaded to capacity before at least 20 hours of operation. Never overload the tractor. Overloading will result in premature wear and tear and forfeiture of any claims under the manufacturers guarantee.
3. Take care to grease your tractor periodically as detailed in the lubrication guide. Always see that the grease fittings are not clogged.
4. Never refuel the tractor while the engine is running or when near an open flame.
5. Do not pour cold water into the radiator when the engine is hot.
6. Do not "ride" the clutch or brake pedals by resting your feet on the pedals as this will cause excessive wear on release ring and linings, respectively.  
Never operate the tractor with the pto hand clutch latched in disengaged position. Premature wear of the release bearing would result if this lever is disengaged too long.
7. Hitch loads only to the drawbar and trailer hitch, never to any other tractor parts.
8. Keep the tires inflated to the pressures as specified.
9. Regular inspections and preventive maintenance are the surest means of keeping your tractor in proper working order. Prompt detection and correction of minor irregularities and immediate replacement of worn-out or broken parts will prevent failures and avoid expenses.
10. Keep your tractor clean, it pays. When washing your tractor with a water hose be careful that no water enters the injection pump, generator or starting motor. After washing make trial run and check clutch and brakes for proper functioning.
11. For service jobs and repairs on Bosch components see your Bosch serviceman.
12. In freezing temperatures there is danger of the water freezing in the cooling system (or in the tires if filled with water). Check the respective instructions for cold-weather precautions.
13. In cold weather allow the engine to warm up a few minutes at medium speed, prior to subjecting it to full load.
14. If the draft and position control system must be operated immediately after starting, let the engine also run at medium speed.



## RECOMMENDED LUBRICANTS

### Engine

#### Engine oil

Selection of oil types according to:

Military Specification	SAE / ASTM / API Classification
MIL - L - 2104 A SUP 1 DEF - 2101 D	CB
MIL - L - 2104 B	CC
MIL - L - 2104 C * Series 3 * MIL - L - 45199 B *	CD

\* These oils are to be used, when sulphur content of fuel exceeds 1% and/or when operating under severe conditions.

Air Temperature		Viscosity grade SAE. No.		
F°	C°			
above + 90°	+ 30°	30	20W/40	10W/30
from + 32° to + 90°	0° to + 30°	20W/20	20W/40	10W/30
from + 32° to + 10°	0° to - 10°	10W	10W/30	
below + 10°	- 10°	5W/20	10W + 10% Kerosin	

### Oil bath air cleaner

Engine oil above + 32°F (0°C) SAE 20W/20  
below + 32°F (0°C) SAE 10W

### Transmission, Powershift

IH-Hy-Tran fluid

### Transmission, Standard and Final drives

IH-Hy-Tran fluid or SAE 80 EP mild type transmission oil

### Hydraulic system

IH-Hy-Tran fluid or IH-Hydraulic oil

### Belt pulley drive and Front drive axle

Transmission oil SAE 90 EP according to MIL-L-2105 B

### Front wheel bearings and Lubricators

Multi-purpose Lithium base grease, Penetration No. 265-295 or IH grease spec. B 27 Grade 251H EP

Order-Nos. for Engine oil, Hydraulic oil, IH-Hy-Tran fluid and Transmission oil see Parts Catalog.

On request IH dealers will gladly furnish more detailed information regarding recommended lubricants.

The lubricating instructions in this book refer to the above recommended grade specifications.

Damages caused by using lubricants other than specified above are not covered by the manufacturer's guarantee.

Specifications subject to change without notice !

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