

**990 & 995
Tractors**

Operators Manual

9-5119

Reprinted





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.



Operator's Manual
990 and 995 Tractors

INTRODUCTION

Even the most experienced tractor user should read Sections 1, 2, 3 and 4 *before* commencing operations with his new tractor.

A great deal of care goes into the building of every Case tractor. The engine is part run-in, the completed tractor is road tested and at each stage of assembly it is checked by a team of Quality Control Inspectors. The user can help to maintain this in-built quality by carrying out the simple tasks outlined in the Regular Maintenance chapter — Section 4. Neglect can lead eventually to major repairs which are expensive as well as time wasting.

Most difficulties are experienced through incorrect methods of operation. Sections 1, 2 and 3 detail the easiest, quickest and most efficient ways of operating the tractor, especially the many design features which are special to the Case tractor.

Coupled with the above is the question of safety. A tractor can be a dangerous machine if handled without due caution and knowledge gained beforehand from this book can prevent accidents.

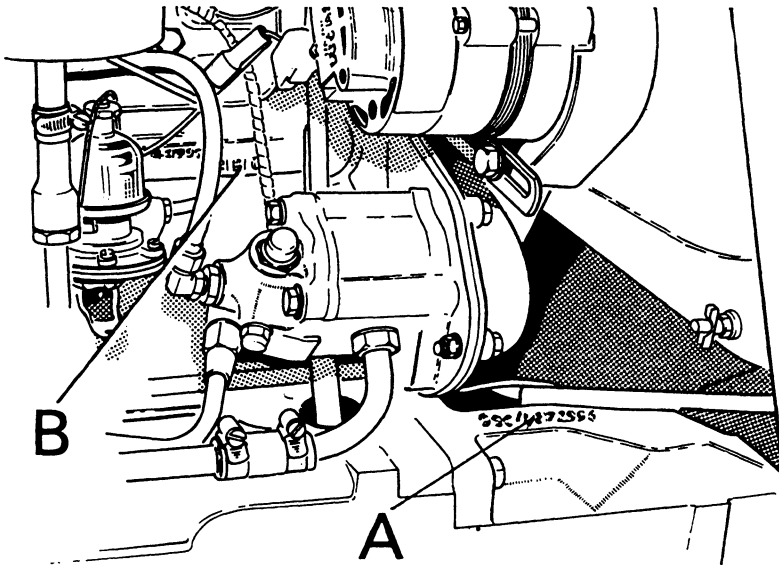
Two models of tractor are covered in this book, the 990 and the 995. The main differences between these models are that the 995 has a longer stroke and higher powered engine than the 990, and the 995 has fully independent PTO controlled by a separate hand lever.

Both incorporate the patented Selectamatic® hydraulic system, first introduced by David Brown Tractors Ltd in 1965, and which has proved exceptionally reliable and simple to operate. Small refinements since then have further improved the system. The two versions of the 4-cylinder diesel engine used in these tractors are carefully matched to the transmission and maintain the Case reputation for low fuel consumption and ease of starting.

As an Authorized Case Dealer, we stock Genuine Case Parts, which are manufactured with the same precision and skill as the original equipment. Our trained staff is kept well informed on the best methods of servicing Case equipment and is ready and able to help you.

Should you require additional aid or information, contact us.

Your authorised Dealer.



A. Tractor Number
B. Engine Number

When ordering parts or with any query always quote the full prefix and serial numbers as follows:

Tractor letters and numbers as stamped on right-hand edge of the chassis front extension at A and on the identification plate, e.g. 990/1/11,070,001.

Engine Numbers as stamped on the flat vertical surface on the right-hand side of the cylinder block at B and on the identification plate, e.g. 449001/36588.

Tractor Serial No.

Engine Serial No.

CONTENTS

	Page
Serial Numbers	iii
Safety	viii
Take Special Care of your New Tractor	xxii
After Delivery Quality Check	xxii

SECTION 1 DESCRIPTION AND OPERATION — GENERAL

INSTRUMENT PANEL	1
Engine Stop Control	1
Engine Oil Warning Light	2
Charge Warning Light	2
Transmission Filter Warning Light	2
Direction Indicator	2
Hazard Warning Switch	3
Light Switch	3
Engine Speed Indicator	3
LEVERS AND PEDALS	5
Use of the Throttles	5
Brakes	6
Clutch	7
Differential Lock	9
SYNCHROMESH TRANSMISSION	11
Operation	11
Gear Selection	12
STARTING AND STOPPING ENGINE	14
Starting the Engine	14
Starting in cold weather	14
Starting in extreme cold	15
Stopping the Engine	16
Stopping the Tractor	16
SEAT ADJUSTMENT	16

	Page
SECTION 2 DESCRIPTION AND OPERATION — SELECTAMATIC HYDRAULIC SYSTEM	17
Introduction	17
Selector Dial Pointer	19
Hand Lever	19
Sensing Unit	19
Finger Guides	19
Lowering Control	19
Lift Latch	20
Trailed Implements	21
 OPERATING WITH DEPTH CONTROL	 22
OPERATING WITH DEPTH WHEEL (TCU)	24
OPERATING WITH HEIGHT CONTROL	26
OPERATING EXTERNAL EQUIPMENT VIA THE 3-WAY VALVE	30
3-Way Valve	30
Catch Unit	33
 OPERATING EXTERNAL EQUIPMENT WITH DOUBLE ACTING CONTROL VALVES	 34
 SECTION 3 — ADJUSTMENTS AND SETTINGS	 37
LINKAGE SETTINGS	37
Stabilisers	40
Slotted Lift Rods	40
Drawbar	41
WHEELS AND AXLES	45
Front Tread Adjustment	45
Rear Tread Adjustment	46
Tread Settings for Ploughing	46
Rear Tread—Power Adjustment	48
Tire Pressures	50
Ballasting	51
MULTI-SPEED POWER TAKE-OFF	52
PTO DRIVEN IMPLEMENTS	54
BELT PULLEY	54
SELECTIVE SENSING UNIT	55
HIGH CLEARANCE CONVERSION	56

	Page
SECTION 4 — REGULAR MAINTENANCE	59
Introduction	59
Table of Routine Service Tasks	60
Lubrication Chart	63
Fuel, Grease and Anti-freeze Specifications	71
Approved Lubricants	72
SECTION 5 — SERVICING INFORMATION	75
Introduction	75
Removal of the hood	76
ENGINE	77
Air Cleaner	77
Cooling System	78
Fan Belt Adjustment	80
Diesel Fuel Storage	80
Fuel Filter Elements	82
Venting the Fuel System	83
Injectors	84
Injection Pump and Governor	85
Water Trap and Sediment Bowl	85
Engine Lubricating Oil	87
Oil Filter Element	88
Valve Clearance	89
Cylinder Head Tightening	90
CHASSIS	91
Lubrication	91
Front Axle	91
Front Hub	92
Final Drive Reductions	93
Transmission and Hydraulic System	93
Hydrostatic Power Steering	96
Brakes	99
Clutch (not 995)	100
Transmission Clutch (995 only)	100
PTO Clutch (995 only)	101
Belt Pulley Unit	102

	Page
ELECTRICAL	104
Alternator	104
Battery	104
Fuse	105
Starter	106
Wiring	106

SECTION 6 — INFORMATION AND DATA	109
Abbreviations	109
Lighting Equipment (Bulbs)	111
Diesel Engine	112
Chassis	117
Travel Speed Tables — 10/49 final drives	119
Accessories	121

SAFETY

Safety Rules

Your safety and the safety of those around you is highly dependent upon the care and good judgement you exercise in the use of this equipment. Know the positions and functions of all controls before attempting to operate. **BE SURE TO CHECK ALL CONTROLS IN A SAFE OPEN AREA BEFORE STARTING YOUR WORK.**

READ THIS MANUAL THOROUGHLY and make sure you understand its contents. All equipment has limitations. Be sure you understand, for example, the speed, braking, steering, stability and load characteristics of this machine before starting to operate.

The safety information presented in this manual is not intended to replace safety codes, insurance requirements, federal, state and local laws, rules and regulations. Know the regulations and laws that apply to your area and be sure that your machine is properly equipped to meet such laws and regulations.

We at Case are continuing to contribute to your safety in two ways: by building tractors with an extra measure of protection and comfort . . . and by passing on these suggestions for safer operation.

IMPORTANT: *Always install new decals whenever the old decals are destroyed, lost, painted over or illegible. When individual parts are replaced that have decals attached, be sure to install a new decal with the new part:*

Pre-Starting



CAUTION *It is good practice to carry a fire extinguisher on the tractor. Be sure that the extinguisher is properly maintained and be familiar with its proper use.*



CAUTION *Provide a first aid kit for use in case of accident.*

WARNING Before starting engine study Operator's Manual safety messages.

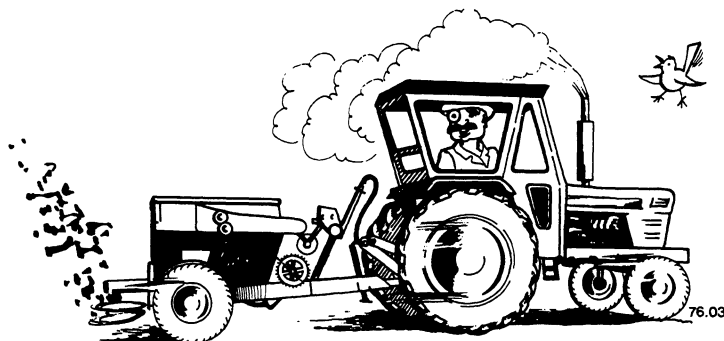
Read all safety signs on machine.

Clear the area of other persons.

Learn and practice safe use of controls before operating.

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

Operator and Service Manuals may be obtained from your equipment dealer.



WARNING Before starting engine be sure all operating controls are in neutral.

Operate controls only when seated in Operator's seat.

On roads, use flasher/lights according to local laws.

Keep SMV emblem visible.

Shields help protect from injury, keep in place.

Stop engine before working on PTO driven machine or PTO shaft, or performing any maintenance.

Before leaving tractor unattended, lower hydraulically lifted equipment to ground.



WARNING Before starting the engine, be sure all operating controls are in neutral. This will ease starting loads on the starter and batteries and will eliminate the accidental start up of PTO driven equipment.



WARNING Ether or similar starting fluid must not be used without first following the detailed procedure.

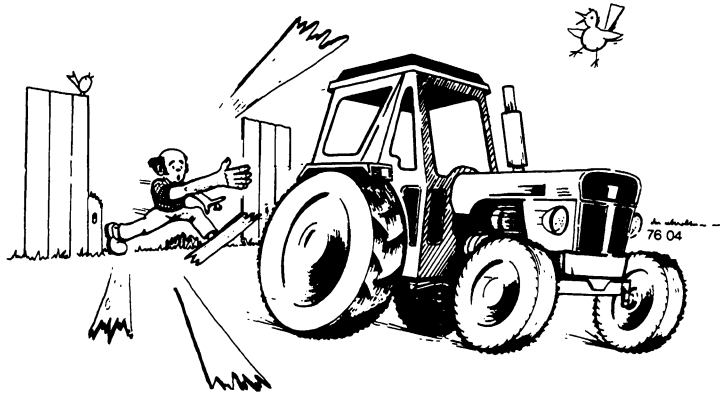
The Thermostart heater is automatically in operation when the starter is engaged to turn the engine. Ether or starting fluid could cause a flashback or fire if brought into contact with the glowing Thermostart coil.



Operation



CAUTION Before leaving the tractor, stop the engine, place all controls in neutral and set the parking brake.



WARNING Operate controls only when seated in the Operator's seat.



WARNING On roads, use flasher/lights according to local laws. Keep SMV emblem visible.



WARNING Tractor travel speed should be such that complete control and tractor stability is maintained at all times. Where possible, avoid operating the tractor near ditches, embankments and holes. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.



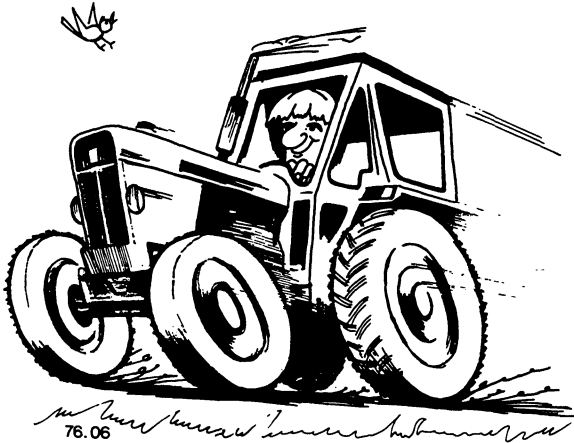
DANGER Always engage the locking bar, C, Fig. 1/3, when driving on the highway, when towing a trailer or when travelling fast. Use of independent brake or brakes badly out of adjustment will cause a dangerous swerve with the possibility of overturning the tractor.



DANGER Excess tractor speed is the big killer. Only experienced drivers should be permitted on highways.



WARNING The differential lock must not be used in the higher gears, at high speeds, or on the highway as the tractor cannot be steered with the differential lock engaged.



WARNING Extra weight increases your braking distance. Remember that liquid in the tyres, weights on the tractor or wheels, tanks filled with fertiliser, herbicides or insecticides – all these add weight and increase the distance you need in which to stop.



CAUTION Do not fit front wheel weights for use on the road. At high speeds they cause wheel wobble and unsafe steering. Use front chassis ballast weights instead.



DANGER *If the support frame is removed ensure that the spacer bar which passes through the main frame is either removed or secured so that it cannot work out whilst driving. It can foul the steering with dangerous results.*



WARNING *If it is necessary to tow the tractor without the engine running, do so carefully and slowly, because the steering will be heavy.*



DANGER *Do not use the tractor if there is any sign of oil leakage from the power steering system. The steering will not operate if the oil level falls so low that the pump draws air.*



DANGER *Pipe movement caused by engine vibration can rapidly damage a pipe if it is close to a sharp object.*

Buy Now



Our support email:

ebooklibonline@outlook.com