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THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

M171B

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 an potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an 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.

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5. When removing the wax preservative coating and when steam water pressure cleaning, it is most important to protect the alternator by either (a) removing it from the tractor, or (b) enclosing it in a plastic or waterproof cover.

AUXILIARY EQUIPMENT

Earlier tractors have a suitable connection point for auxiliary equipment such as a windscreen wiper motor. It consists of a 4-way connector under the left-hand side of the instrument panel. Any of the spare positions can be used to connect an extra item. The connector is shown at 'A' on the wiring diagrams Fig. 5/37 and 5/39.

Later tractors with a separate harness to the instrument panel connected by 7-pin and 10-pin plugs and sockets at the right-hand side, have a separate lead to the windscreen wiper. If a wiper is not fitted, the short wire which has a single connector attached will be found under the instrument panel and may be used for any auxiliary item. If it is connected to a wiper motor, the single connector should be removed and a double connector fitted. This will provide additional outlets.
Use of the above connectors ensures that the auxiliary has no electrical supply when the ignition/starter switch is in the 'off' position.

BATTERY

To gain access for inspection and topping up, remove the radiator grille, lift the catch A, Fig. 5/35 and pull the battery fully forward complete with its mounting tray as shown in the illustration. The tray is captive and will not fall out.

Caution — Avoid shorting the positive terminal to the tractor frame. Always disconnect the battery earth (ground or negative) cable *before* removing the positive terminal or clamp. Do not smoke or use naked flames near the battery. Remember the fluid in the battery is acid. Take care not to spill it on hands or clothing. Careless handling of batteries may result in burns, fire or personal injury.

Do not make or break electrical circuits while the engine is running. If the tractor is not used for a period of time, it will be necessary to give the battery an occasional change to maintain the specific gravity of the electrolyte at or above 1.250. An unused battery will slowly lose its charge. It is specially important to recharge it in cold weather, as a discharged battery freezes at a higher temperature than a charged one.

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Operation

At the beginning of the furrow, push the hand lever forward to the rear finger guide. When the implement has lowered into work, adjust the hand lever, forward to increase depth or rearwards to decrease depth, until the required depth has been found by trial. Set the finger guide in line with the hand lever so that the same depth can be found easily on subsequent furrows. At the headland, pull the lever rearwards to the spring loaded stop to lift the implement.

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HIGH CLEARANCE CONVERSION — 1210 two wheel drive tractors only; not available for tractors fitted with DB safety Weatherframe

Provided that the tractor has been ordered for High Clearance conversion and thus has the final drive units suitably drilled for the breather assembly and dowle locations, the tractor may easily be converted to high clearance or back to standard. Observe the following instructions. Reverse the procedure when converting back to standard clearance.

REAR AXLE

1. With the tractor on firm and reasonably level ground, slacken each wheel nut one full turn (front and rear wheels), raise the rear end of the tractor and place packings under the rear axle case.
2. Depress the differential lock pedal until it reaches the limit of its travel and retain it in this position by placing a suitable bolt under the rear end of the pedal lever. Remove rear wheels. Place the handbrake in the "Off" position and release the brake adjustments to enure that the brake shoes are not binding on the drums.

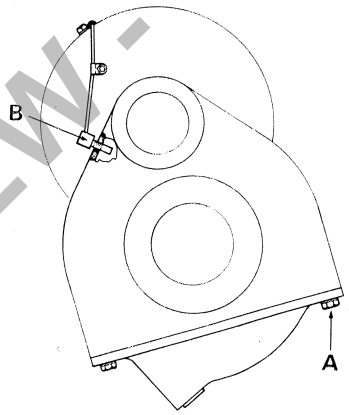


FIGURE 3/11. VIEW OF LEFT-HAND REDUCTION SHOWING BREATHER AND PIPE FITTED

A. Replace breather bolt with 3/8 UNC bolt

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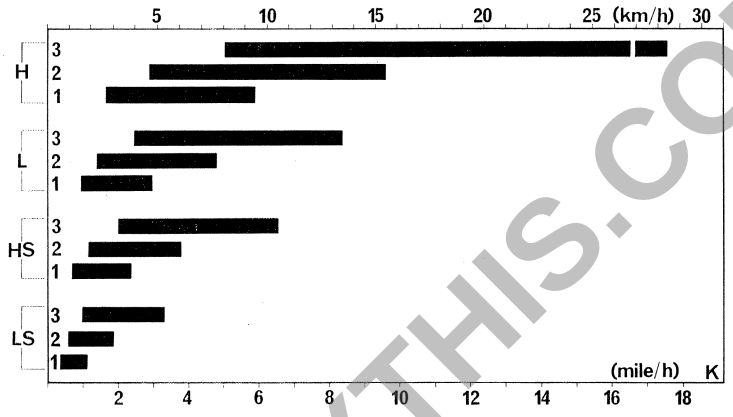


FIGURE 1/9. TRAVEL SPEEDS — 1210 TRACTOR

With 10/49 reductions and 13·6/12-38 and 16·9/14-34 tyres (speeds on 11/49 reductions will be 10% higher).

Some examples of the use of various gear combinations follow :—

Road travel with heavy trailers: usually performed in the high range (H). With heavy trailers you may use 1st gear to move off easily and smoothly, subsequently engaging the 2nd and 3rd gears on the move. Doing this by convenient stages will ensure smooth progression to top speed. Downward changing on the move from 3rd to 2nd facilitates climbing gradients or to give increased engine braking for the downgrades, for slowing down near road intersections and to bring the tractor smoothly to rest.

Field tasks: most often performed in either of the intermediate ranges, HS and L. Both these ranges provide reasonably high speeds in 3rd gear, which can be engaged on the move at the headlands for faster turnabout, e.g. on ploughing and PTO tasks.

With mounted implements which do not engage the ground and with PTO-powered implements which roll freely, it is of course possible to change synchromesh gears on the move during actual operation.

Very low ground speeds, e.g. for precision cultivation tasks, are obtainable in both LS and HS ranges.

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IMPLEMENTS AND EQUIPMENT

Many manufacturers adapt their equipment specially for fitting to your 1210 or 1212 tractor. The following manufacturers have equipment which meets our approval; ask your David Brown Dealer for details.

Steel Wheels
F. A. Standen & Sons (Engineering) Ltd. 47-49 Station Road, ELY, Camb. CB7 4BP
Tel. Ely 2271

Trailers
F. W. Pettit Ltd., High Street, Moulton, SPALDING, Lincs. PE12 6QD
Tel. Moulton 458

Rear Graders and Verge Cutters
Bomford and Evershed Ltd., Salford Priors, EVESHAM, Worcs. WR11 5SW
Tel. 078 988 3383

Saw Bench and Power Arm
F. W. McConnel Ltd., Temeside Works, LUDLOW, Salop SY8 1JL
Tel. Ludlow 3131

Air Compressor (small; for tyres, paint spraying etc.)
Lawrence Edwards & Co. (Engineers) Ltd., Stourport Road, KIDDERMINSTER, Worcs. DY11 7QS
Tel. Kidderminster 3665

Linkage-mounted Pump (general purpose water and semi-liquid)
Mono Pumps Ltd., Mono House, Sekforde Street, Clerkenwell Green, LONDON EC1R 0HE
Tel. 01 253 8911

Planters and Transplanters, Post-hole Diggers
R. A. Lister (Agricultural) Ltd., Post Box No. 1, DURSLEY, Glos. GL11 4HS
Tel. Dursley 4141

Mole Drainer and Subsoiler
Harper and Eede Ltd., 44 Cliffe High Street, LEWES, East Sussex BN7 2AW
Tel. Lewes 4484

Winches (Tractor Mounted)
T. T. Boughton & Sons Ltd., Bell Lane, AMERSHAM, Bucks. HP6 6PE
Tel. Amersham 02 404 4411
Tate Pipe Lining Processers Ltd., (Cooke Winch Div.) Green Lane, Failsworth, MANCHESTER M35 0PP
Tel. Manchester 061 681 5709

Sprayers
Evers & Wall Ltd., Lowesden Works, Lambourn Woodlands, NEWBURY, Berks. RG16 7RX
Tel. Lambourn 444

Disc Harrows
F. W. Pettit Ltd., High Street, Moulton, SPALDING, Lincs. PE12 6QD
Tel. Moulton 458

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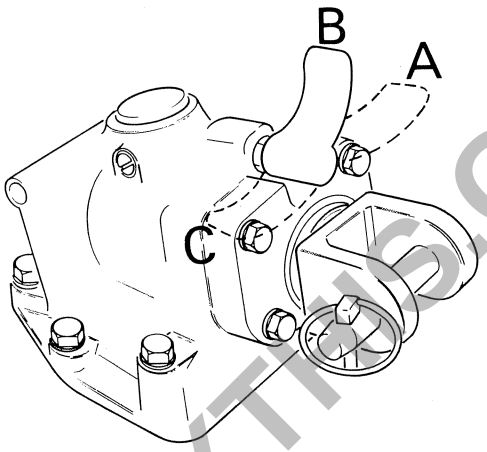


FIGURE 3/10. SELECTIVE SENSING UNIT

A. Position for heavy draught implements
B. Position for medium draught implements
C. Position for low draught implements

Position A: Suitable for the heaviest draught implements such as chisel ploughs, subsoilers and the heaviest multi-furrow mouldboard and disc ploughs with top link forces of up to 6000 lb (2700kg) in compression and 3300 lb (1500kg) in tension.

Position B: Suitable for medium draught implements such as ploughs and cultivators with top link forces up to 3000 lb (1350kg) in compression and 1600 lb (725kg) in tension.

Position C: Suitable for light draught ploughs and cultivators, light hoes and weeders with top link forces up to 2000 lb (900kg) in compression and 1100 lb (500kg) in tension.

Once the appropriate rating has been selected operation of the hydraulic system is as described previously for the standard sensing unit (see page 33).

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SELECTAMATIC CONTROLS

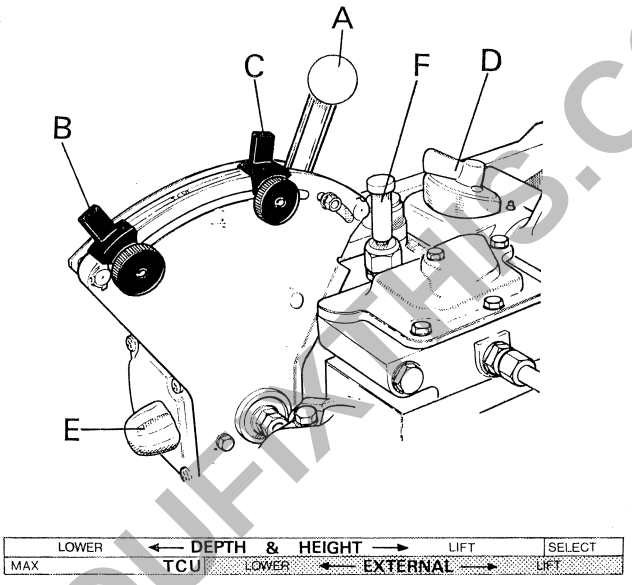


FIGURE 2/1. SELECTAMATIC CONTROLS

A. Hand lever
B. Front finger guide
C. Rear finger guide
D. Selector dial
E. Rate of lowering control
F. Dump valve

Selector Dial Pointer — Mounted on the rear axle case at right of the seat, has three positions to select the mode of operation required — "Depth", "Height" or "External/TCU". Hold the hand lever rearwards in the 'select' position while turning the pointer.

The 'External/TCU' position should be used for linkage mounted implements supported by a depth wheel (gauge wheel). TCU can then be applied to transfer weight to the tractor rear wheels.

Hand Lever — This operates in a quadrant and, once the selector dial has been set, is used to control the hydraulic system according to the chosen mode.

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SECTION 1. DESCRIPTION AND OPERATION — GENERAL

INSTRUMENT PANEL

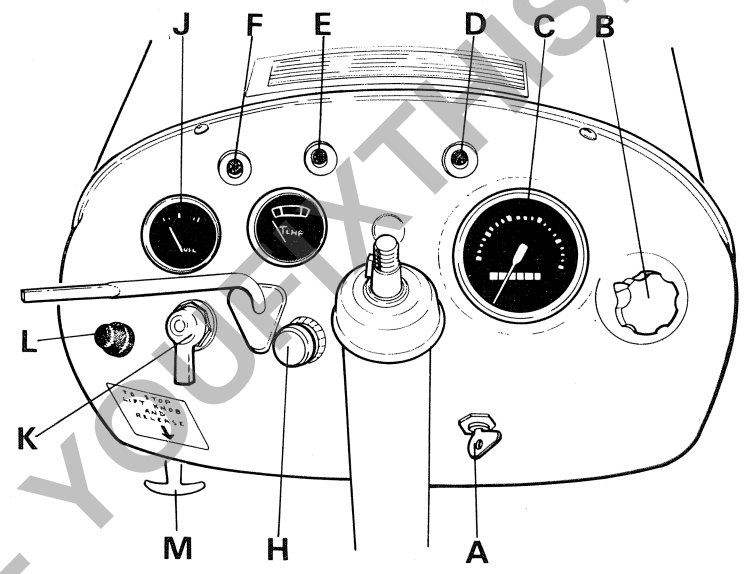


FIGURE 1/1. INSTRUMENT PANEL

A. Ignition — starter switch
B. Lighting switch
C. Engine speed indicator (or speedometer)
D. Charge warning light (red)
E. Engine oil warning light (green)
F. Transmission filter warning light (yellow)
G. Water temperature
H. Hazard warning switch
J. Fuel gauge
K. Direction indicator switch
L. Horn push button
M. Engine stop control/choke

Engine oil warning light

The green light is illuminated when oil pressure is too low. Ensure that it lights when the isolating switch is turned on and goes out when the engine runs.

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EXTERNAL EQUIPMENT OPERATED VIA LIVE, DOUBLE-ACTING CONTROL VALVES

Either one (U948) or two (U949) control valves may be mounted above the distribution block. Each has its own independent operating handle.

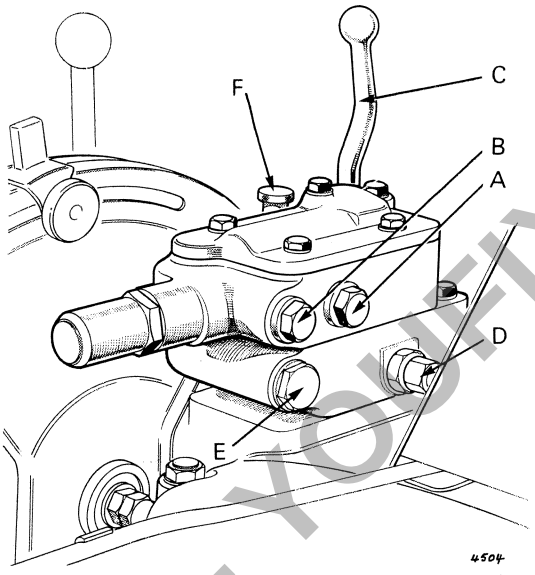


FIGURE 2/11. LIVE, DOUBLE-ACTING, TAKE-OFF VALVE

A. Output when lever C is forward (return when C is rearward)
B. Output when lever C is rearward (return when C is forward)
C. Operating lever
D. Output to internal ram and 3-way valve
E. Return from continuously operated equipment connected to 3-way valve
F. Dump valve

Connections to the double-acting take-off valve are shown at A and B in Fig. 2/11. When the control lever is pushed forward, oil is fed to connection A and returned to the sump via connection B. When the control lever is pulled rearward the oil flow is reversed. Both positions have detent balls so that the lever is retained when pushed to the extreme of its movements. An automatic detent release is incorporated so that the lever is returned to the centre position and cuts off the oil flow when the

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⚠ WARNING! ⚠

Improper operation of this machine may result in injury or death. Before operating this machine study the SAFETY POINTS starting on page 2 and read this book thoroughly.



Look for this symbol which points out important safety precautions. It means ATTENTION ! BECOME ALERT ! YOUR SAFETY IS INVOLVED !

There are three degrees of safety message used in this publication. The signal words preceding the message are as follows :—

The word CAUTION denotes the least serious hazard.

The word WARNING is intermediate between caution and danger.

The word DANGER denotes the most serious hazard which if ignored could endanger life or limb.

David Brown policy is one of continuous development and improvement and therefore the specification details may have been altered since this book went to press.
Moreover, as the David Brown tractor is offered in a variety of forms to cover a large number of markets and applications, this handbook may contain details of items not applicable to the particular tractor for which it has been supplied.

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