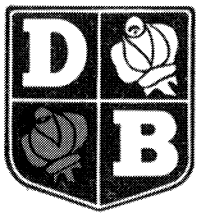
DAVID BROWN

880 DIESEL TRACTOR

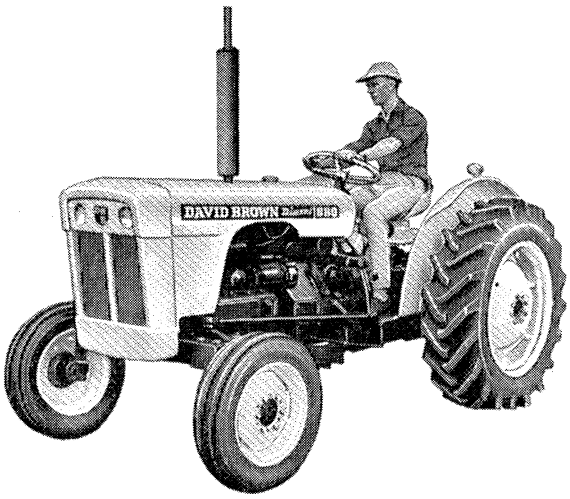
OPERATOR'S MANUAL



DAVID BROWN TRACTORS LIMITED

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Safety Points

Don't operate the independent foot brake when travelling in the higher gears.

Don't run on the highway without locking the two foot brake pedals together.

Don't run the PTO or Belt Pulley without a guard.

Don't wear loose clothing near moving parts of the tractor, engine, or implements.

Don't attempt to start the engine in gear.

Don't leave the isolating/starter key in the tractor when unattended, especially where children have access.

Don't swerve or turn sharply at speed.

Don't let the clutch in suddenly on a slope, or brake hard if running backwards down hill, or the tractor may rear up.

Don't use the differential lock on the public highway.

Don't try to make a sharp turn unless the differential lock is out of engagement.

Don't operate the tractor on dangerously steep ground. Move cautiously on steep slopes, because the sudden swing of a heavy implement, or the pull of a trailer, may cause trouble. Use the clutch, brakes, throttle and steering *slowly*. Beware especially of slippery surfaces.

Don't carry passengers on the tractor or hitch.

Don't turn with a projecting implement without making sure there is room for it.

Don't hitch trailed implements above the center line of the rear axle.

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CONTROLS

The engine and tractor controls are shown in Fig. 1/1 and 1/2.

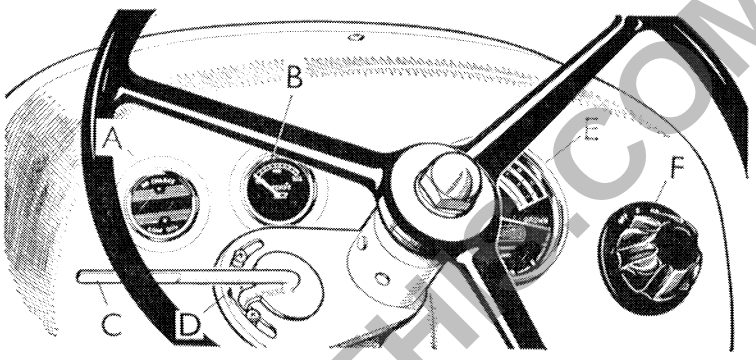


Fig. 1/1. Instrument panel

A. Warning lights (Oil and charge)
B. Water temperature (U581)
C. Throttle lever
D. Rated speed setting (1800 *rpm*)
E. Tractormeter
F. Light switch

OIL WARNING LIGHT

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

NO CHARGE WARNING LIGHT

The red light is illuminated when the isolating switch is turned on but will go out as soon as the dynamo begins to charge.

THROTTLE CONTROL LEVER

When fully rearwards the diesel engine is governed to its maximum speed. When the lug on the lever is brought into line with the corresponding mark on the quadrant (Fig. 1/1), the engine is governed at its rated speed of 1800 rpm. This position should be used for most purposes to conserve fuel and engine life. It also gives a PTO speed of 540 rpm in low ratio.

LIGHT SWITCH

This has 4 positions as follows: (1) Fully counterclockwise—all lights out. (2)—Side and tail (and rear license plate) lights. (3)—Side and tail lights plus the head lamps. (4)—Head lights only. The rear flood lamp operates when the head lamps are on but incorporates its own switch

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OPERATION OF THE IMPLEMATIC SYSTEM

Four distinct systems are available.

System 1 For use with implements having a gauge wheel. (TCU can be used to overcome wheel slip).

System 2 For use with ground engaging implements without a gauge wheel. (Known as "Draft Control").

System 3 For non ground-engaging implements which require to be held at a certain height above the ground and also for semi-ground-engaging implements without gauge wheel *i.e.* mowers, weeders or seeders which do not produce sufficient alteration in the length of the upper link to give satisfactory control with System 2. (Known as "Height Control").

System 4 Operation of equipment with a remote hydraulic cylinder.

Note: Do not try to master all four systems at once since this will only lead to confusion. Ignore the systems which do not immediately concern you and turn to the following pages for the operation of the system required.

It is essential that the controls are correctly set for the task required. Each of the following instructions is preceded by the setting for (1) Upper link cable, (2) Pre-set guide, (3) Override control, (4) TCU handwheel, (5) Lift latch. These should be set before proceeding with any work.

When using Systems 1, 2 or 3, the engine speed should be kept constant within approximately 200 rpm of the selected speed.

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PICK-UP HITCH

(Optional equipment—U462)

The Pick-up Hitch—U462 must be used in conjunction with the Support Frame—U593 which is used also to support the Swinging Drawbar—U654. Because of the slotted lift rods it is not necessary to remove the pick-up hitch when it is desired to use the linkages. When the support frame is bolted to the hitch brackets, using holes A Fig. 1/28, the linkages may be used freely.

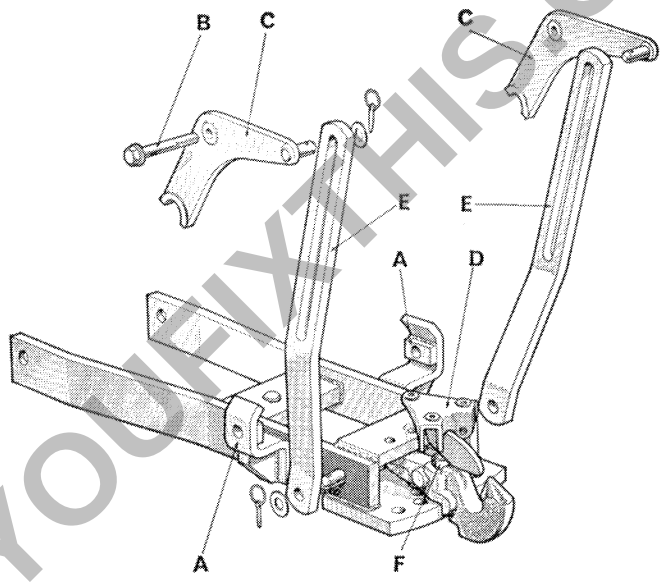


FIG. 1/28. Pick-up hitch—U462

A. Securing holes for stowing when not in use
B. Long securing bolts
C. Lift lever extensions
D. Check chain bracket and hook retaining plate
E. Lift rods
F. Towing hook retaining bolt

MOUNTING INSTRUCTIONS

If not already in use, the support frame should be attached to the tractor by bolting the brackets to the underside of the rear main frame and inserting the hinge bar and cotter pins.

Replace the lift rod and leveling lever to the *outside* of the rockshaft levers using the new longer bolts B and attach the lever extensions C to the *inside* of the rockshaft levers using the same bolts. Fully tighten these nuts and bolts.

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Section 2
Regular Maintenance

Regular routine maintenance is essential. The importance of this cannot be over emphasised. A properly maintained tractor retains its efficiency longer and remains reliable and ready for use at any time. Failure to carry out the maintenance properly can lead to unnecessary repairs, usually at unexpected and awkward times and in the long run is much more expensive than the cost of regular attention.

Because of its importance, the David Brown maintenance procedure has been made very simple. To this end the requirements have been divided into a daily inspection and greasing, plus 5 tasks A, B, C, D, and E to be carried out at set periods. The frequency of these tasks is shown in the table opposite.

The recommended times are for average American conditions and, in areas of dry dust or wet mud the daily greasing and air cleaner inspection should be carried out twice a day or more often if dictated by experience. The other tasks should also be carried out at correspondingly shorter intervals.

It is strongly recommended that the appropriate task be carried out at the end of the day on which the hour meter reaches the stipulated time. The oils will then be warm and will drain away easily.

NOTE. Attention to cleanliness is very important. All grease points must be cleaned before applying the grease gun. Drain plugs and filler caps must be wiped clean before removing and any containers used for filling the engine, transmission or fuel tank must be kept perfectly clean. The smallest grain of dust in the fuel system can cause faults with loss of power and premature wear. It is recommended that servicing be carried out under cover wherever possible.

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TABLE OF SERVICE TASKS

Carry out the tasks marked X at the times shown. These tasks are additional to the daily inspection and lubrication.

Hour Meter Reading	Task A	Task B	Task C	Task D	Task E
60	X	†			† (1 to 4)
125	X	X			
185	X				
250	X	X	X		
315	X				
375	X	X			
440	X				
500	X	X	X	X	
560	X				
625	X	X			
685	X				
750	X	X	X		
815	X				
875	X	X			
940	X				
1000	X	X	X	X	X

† New and Reconditioned Tractor only.

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