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MANUAL PREVIEW

Galion

Operator's Manual

125P Hydraulic Crane

S/n 1001 & Up

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Operator's Manual

GA-O-125P HYDC

OPTION:

If the Crane is equipped with an option the 30 GPM flow next proceeds to the option valve.

LOW LINE SPEED:

The 30 GPM flow is supplied to the boom winch by the next valve in the manifold. This flow is piped to the winch motor.

FIFTY GALLON PUMP:

The 50 GPM flow is routed to the large manifold located behind the boom pedestal. Control of the valves in this manifold is made through aircraft-type cables connecting the control levers with the valves.

INTERMEDIATE LINE SPEED:

The first valve in the 50 GPM manifold supplies 50 GPM flow to the boom winch motor. Operating both the low line speed valve from the 30 GPM manifold and the intermediate line speed valve in the 50 GPM manifold will yield a combined flow of 80 GPM for High Line Speed.

HIGH LINE SPEED:

Operate both the low line speed and intermediate line speed controls simultaneously to obtain the high line speed.

BOOM CROWD:

The 50 GPM flow is then supplied to the boom crowd valve. This flow is piped to the crowd cylinder and extends or retracts the boom sliding section.

BOOM LIFT:

Flow from the last valve in the 50 GPM manifold is piped to the boom lift cylinder to raise or lower the boom.

1. Swing
 - (a) Push control to rotate crane clockwise.
 - (b) Pull control to rotate crane counterclockwise.
2. Option (if any).
3. Low Line Speed
 - (a) Pull control to raise hook.
 - (b) Push control to lower hook.
4. Intermediate Line Speed
 - (a) Pull control to raise hook.
 - (b) Push control to lower hook.
3. & 4. High Line Speed (operate together)
 - (a) Pull both controls to raise hook.
 - (b) Push both controls to lower hook.



CAUTION

WHEN OPERATING AT FULL ENGINE RPM AND FAST HOIST SPEED IS DESIRED, ALWAYS "FEATHER" BOTH THE SLOW AND INTERMEDIATE CONTROL LEVERS, IN TO A FULLY OPEN POSITION. QUICK FULL ENGAGEMENT OF THESE CONTROL LEVERS TO RAISE OR LOWER THE HOOK BLOCK CAN CAUSE DISPLACEMENT OF THE WIRE ROPE. THIS DISPLACEMENT CAN CAUSE BACKLASHING, BIRDCAGING AND CRUSHING RESULTING IN PERMANENT DAMAGE TO WIRE ROPE. ALWAYS "FEATHER" BOTH LEVERS BACK TO THE NEUTRAL POSITION TO STOP HOIST. ALLOWING THE HOIST CONTROL LEVERS TO SNAP BACK TO THE NEUTRAL POSITION CAN ALSO CAUSE WIRE ROPE DISPLACEMENT, EXCESSIVE STRESS, KINKING OR BREAKING OF WIRE ROPE.



CAUTION

TWO-BLOCKING IS PROHIBITED, BECAUSE IT IS AN UNSAFE PRACTICE THAT COULD CAUSE INJURY OR DAMAGE. DO NOT TWO-BLOCK.

5. Boom Crowd
 - (a) Push control to extend sliding section.
 - (b) Pull control to retract sliding section.
6. Boom Lift
 - (a) Push control to lower boom.
 - (b) Pull control to raise boom.

Fig. 8 Control Levers



OPERATING ADJUSTMENTS - POWER UNIT

PUTTING CRANE INTO SERVICE:

After performance of 10 and 50 hour service as indicated on lube chart, and after a check has been made of the engine crankcase and radiator:

1. Depress accelerator pedal about one-third ($1/3$) of its total travel, or move engine speed control lever to the rear about one-third ($1/3$) and twist clockwise to lock.
2. If Crane is diesel powered:
 - (a) Push engine shutdown cable (refer to Fig. 9) all the way in.
 - (b) Turn ignition switch to "run" position (refer to Fig. 10).
 - (c) Depress glow-plug button and observe the glow-plug meter. If hand on meter does not move all the way across the dial, then glow-plug (or plugs) are defective and must be replaced.
 - (d) Keep button depressed 30 to 45 seconds to pre-heat combustion chambers. In cold weather ($+32^{\circ}\text{F}$. or below), button can be depressed for a minimum of 1-1/2 minutes.
 - (e) Turn key switch to "start" position and engage cranking motor. Crank engine for 15 seconds at a time, and allow the cranking motor to cool 30 seconds before cranking again. Keep the glow-plug button depressed at all times (cranking and waiting).
 - (f) When engine starts, keep the glow-plug button depressed for several seconds until engine runs smoothly, then release the button. Allow engine speed control to remain in its starting position for 5 or 10 minutes, or until engine water temperature reaches 130°F ., at which time a light load can be engaged.

Fig. 9 Diesel Engine Shutdown Cable or Gasoline Engine Choke Cable



3. If Crane is gasoline powered:
 - (a) Use choke as needed (refer to Fig. 9).
 - (b) Turn key switch to "START" position to engage cranking motor (refer to Fig. 11). Never operate the cranking motor for more than 30 seconds at one time. If the engine does not start, allow the cranking motor to cool 2 to 3 minutes before cranking again.
 - (c) After the engine starts, push the choke cable into a point where the engine runs smoothly and, as the engine warms up, gradually push the choke cable all the way in.
 - (d) Allow engine speed control to remain in its starting position for 5 or 10 minutes, or until engine water temperature reaches 130°F ., at which time a light load can be engaged.
4. Allow engine reach normal operating temperature, 160°F . or more, before applying full load. It takes time to get a lubricating oil film in the engine re-established between working parts. The most favorable film between moving parts is obtained after all components reach operating temperature.
5. To provide faster engine speed, press the accelerator pedal toward the floor or pull the speed control lever back. Twist lever clockwise to lock in place and counterclockwise to unlock.

ENGINE SHUTDOWN:

Allow engine to idle for three (3) to five (5) minutes. This avoids excessive loss of coolant due to "after boil" or heat surge.

After idle period, stop engine as follows:

Gasoline Engine: Turn key switch to "OFF" position.

Diesel Engine: (1) Turn key switch to "OFF" position. (2) Pull out engine shutdown cable.

ENGINE INSTRUMENTS:

Fig. 10 Diesel Engine Instrument Panel

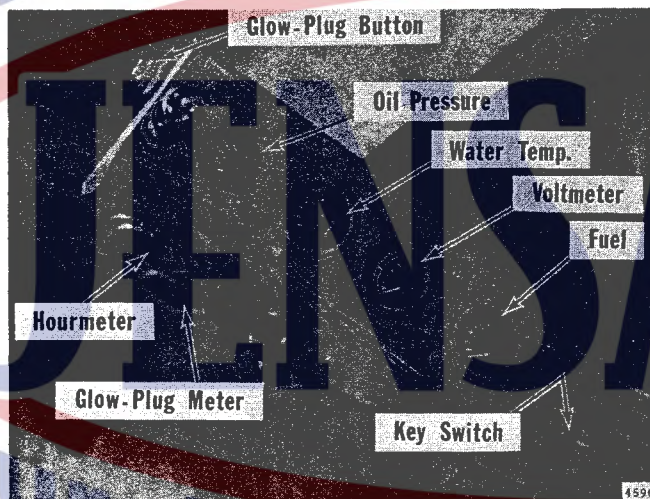
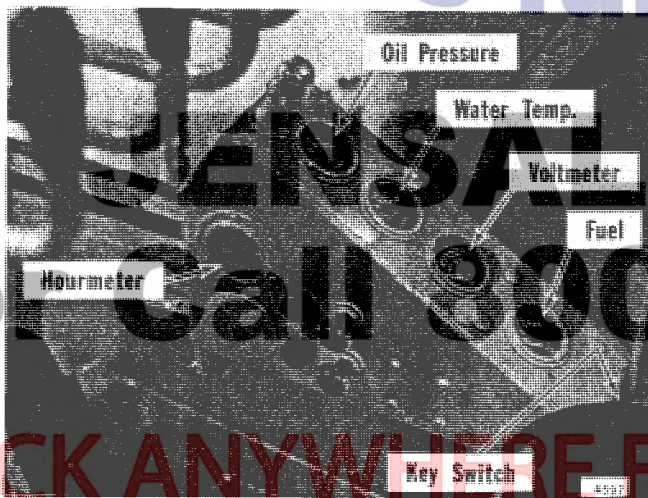


Fig. 11 Gasoline Engine Instrument Panel



ENGINE OIL PRESSURE GAGE:

Do not run engine unless oil pressure gage indicates 30 to 40 psi minimum at operating speed (minimum 15 psi at idle).

NO. 2173^{R1}

OPERATOR'S MANUAL

PEDESTAL MOUNTED HYDRAULIC CRANE MODEL 125P

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