SERVICE MANUAL

534B

9020-7317

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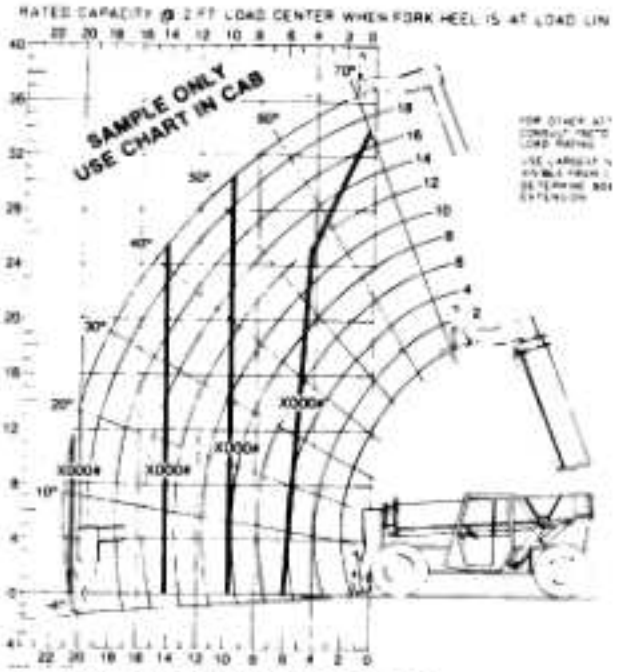
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Rated Capacity Chart



BOOM EXTENSION IN FEET FROM FRONT TIRE TO FORK FACE
FIGURE SHOWN ARE STACKING CAPACITY TRUCK LEVEL
RATED LIFT CAPACITIES SHOWN ARE WITH MACHINE ON A FIRM, LEVEL SURFACE WITH UNDAMAGED PROPERLY
INFLATED TIRES MACHINE SPECIFICATIONS AND STABILITY ARE BASED ON RATED LIFT CAPACITIES AT
SPECIFIC BOOM ANGLES AND BOOM LENGTHS. IF SPECIFICATIONS ARE CRITICAL, THE PROPOSED APPLICATION
SHOULD BE DISCUSSED WITH YOUR DEALER.
DO NOT EXCEED RATED LIFT CAPACITY LOADS, AS UNSTABLE AND DANGEROUS MACHINE CONDITIONS WILL
RESULT. DO NOT TIP THE MACHINE FORWARD TO DETERMINE ALLOWABLE LOAD.
LEVEL GRADALL HANDLER BEFORE LIFTING ABOVE 4 FT.

9103-3021

General

The rated capacity chart, located on left side of dashboard, indicates maximum load capacities for handlers equipped with standard carriage/ fork combination. These capacities apply only to the standard carriage/fork combination and cannot be used for other attachments.

⚠ WARNING

All loads shown on rated capacity chart are based on machine being on firm, level ground; the forks being positioned evenly on carriage; the load being centered on forks; proper size tires being properly inflated; and the handler being in good operating condition. Machines having 8000 pound capacity must have tires properly filled with calcium chloride.

Elevation

Numbers at left side of chart (-4' to 40') represent elevation at heel of horizontal fork as measured from level ground. Maximum elevation with boom fully raised and extended is 36 feet. to dimension "A" shown on serial number plate located on right cab wall.

Boom Extension

Numbers across bottom of chart (0 22') and numbers parallel to boom (2'to 18') represent boom extension as measured from fully retracted position to extended position. These numbers do not reflect total boom length, only the number of feet of extension from fully retracted position.

Number decals on boom section number two (4, 8, 12, 16 and 20) relate directly to boom extension. The largest number which can be read from operator's seat indicates total boom extension.

Boom extension relates to dimension "D" shown on serial number plate.

Boom Angle

Numbers at ends of angled fines (-4° to 7°) represent angle of boom to horizontal as measured from horizontal plane at ground level. Maximum angles are 4° below horizontal with boom fully lowered to 70° above horizontal with boom fully raised.

A boom angle indicator is located on left side of boom section number one to show boom angle. Be sure machine is level from front to rear or indicator will provide incorrect reading.

Load Center

Loads shown on rated capacity chart are based on the load center being two feet above and two feet forward of surfaces of horizontal forks as indicated by dimensions "B" and "C" on serial number plate.

The load center of a load is the center of gravity of the load. For regularly shaped loads of the same material, such as a pallet of blocks, the center of gravity can be located by measuring the load to find its center. For irregular loads, or loads of dissimilar materials, keep the heaviest part of the load as close to the heel of the forks as possible.

In all cases, the load center must be centered between the forks.

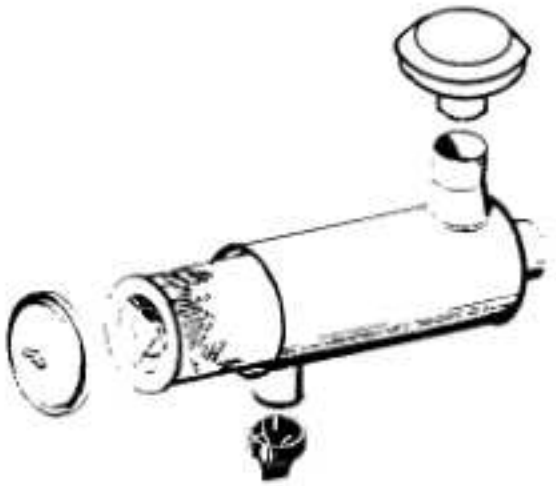
Load Limits

Some capacities shown on the rated capacity chart are based on machine stability and some are based on hydraulic lift capacity. The "common sense" or "feel" an experienced operator might apply in regard to "tipping loads" **DOES NOT APPLY to hydraulic load limits.** Exceeding load limits can cause a relief valve to open allowing the load to fall, or in some cases, the machine to tip over.

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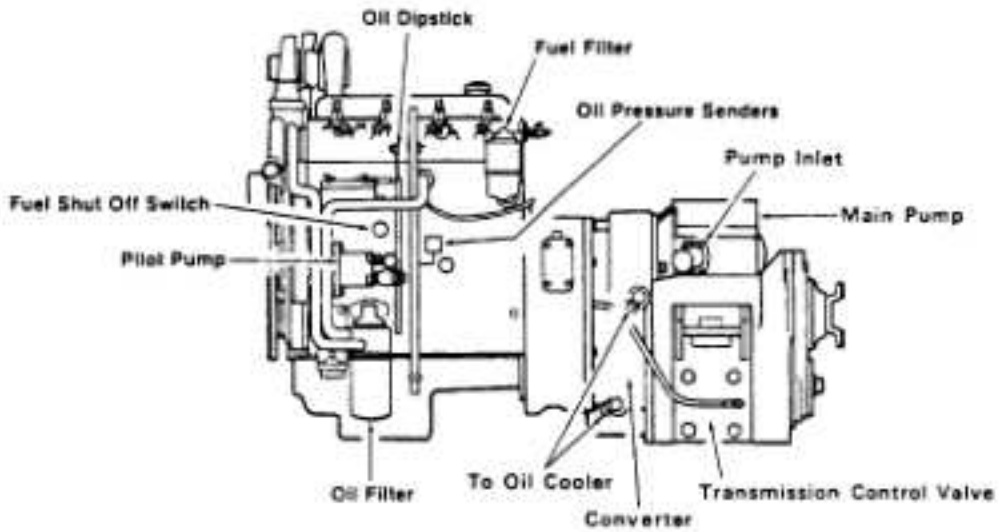
ENGINE

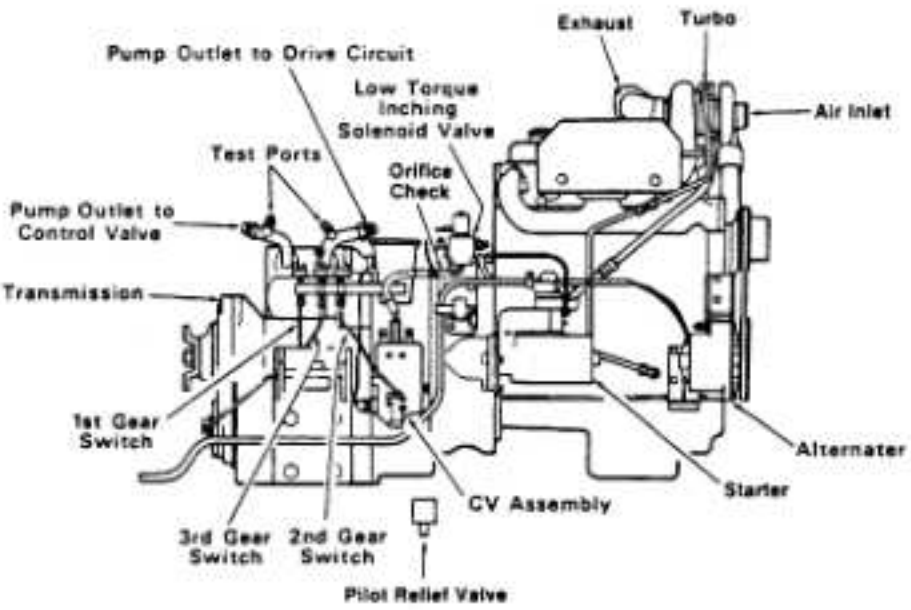
To supply power for the front wheel drive and for the various hydraulic circuits'a diesel engine is used. It runs at 900 rpm low idle. Depressing the accelerator pedal all the way, the engine will run 2800 rpm. With a nominal load the engine will average out at 2600 rpm and will produce 102 gross BHP. The engine speed governs both over-the-road travel speed and the hydraulic circuit speeds.



Engine Filters

The engine has a two stage dry air cleaner, a pre-cleaner with continuous dust ejector, plus a cleanable and replaceable dry filter element. The fuel filter is a replaceable element type and the oil filter is a full flow replaceable element type.





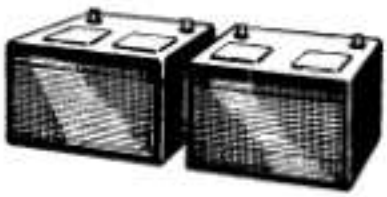
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ELECTRICAL

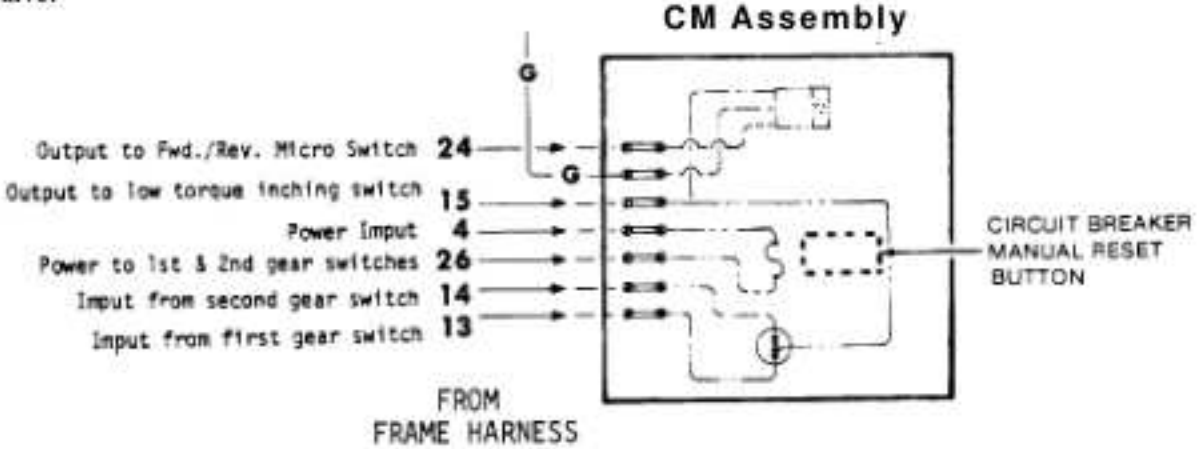
The electrical circuit consists of a 12 volt, 55 amp. alternator, two batteries, each rated at 565 Cold Cranking amps at 0ø F, and 12 volt gages. Use the electrical schematic for trouble shooting the circuit.

A CM Assembly is located under the right hand dashboard which contains a voltage regulator, diodes, capacitors and a circuit breaker with a 5 amp manual re-set button.

A voltage regulator in the CM valve converts the 12 volts to continuous 6 volts for use in the Potentiometer and the Forward/Reverse Pilot Pressure Control Valve.

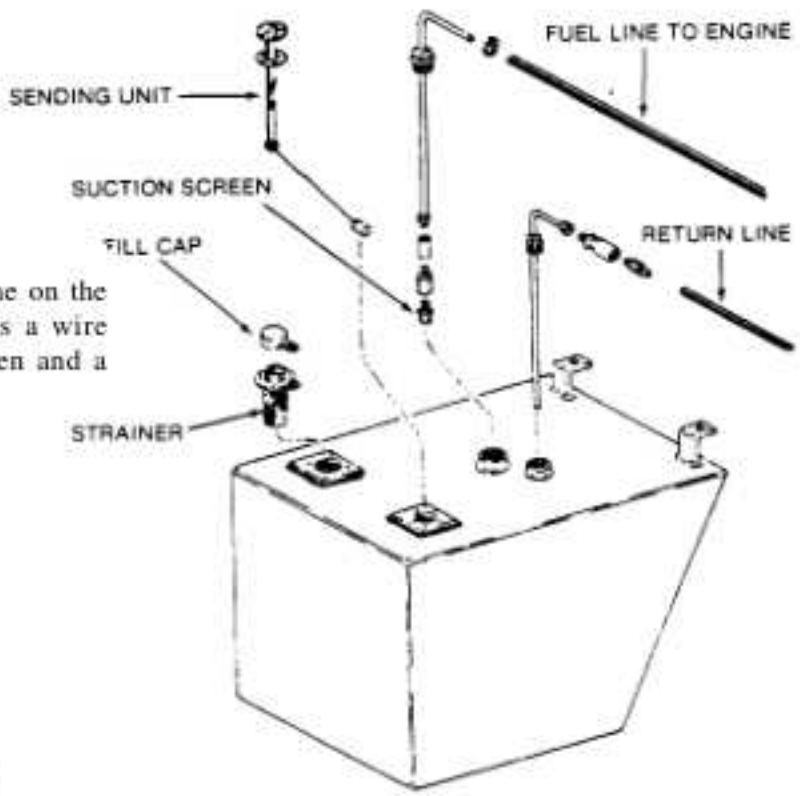


CM Assembly



FUEL TANK

A 40 gallon fuel tank is mounted to the frame on the right hand side of the machine. It includes a wire mesh strainer at the fill cap, a suction screen and a sending unit to the cab fuel gage.



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