



Operator's Manual

J.I. Case

Operator's Manual

580C CK

Tractor, Loader & Backhoe

JENSALES.COM

or Call 800-443-0625



THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF J.I. CASE OR IT'S SUCCESSORS. J.I. CASE AND IT'S SUCCESSORS ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS, AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

CA-O-580CTLB

TABLE OF CONTENTS

Safety	2	4-In-1 Bucket Clam Indicator . . .	62
Safety Rules	2	Backhoe Operating Instructions	65
Pre-Starting	2	Backhoe Controls with Foot	
Operation	5	Swing	65
Service	12	Optional Twin Levers	66
Spark Arresting System	17	Extendahoe and Foot Swing	67
Roll-Over Protection Structure	17	Extendahoe and Twin Levers	68
Introduction	21	Boom Lockout	69
To the Owner	21	Backhoe Transport Position	70
After Delivery Checkup	21	Backhoe Removal	73
Serial Number Location	23	Backhoe Installation	75
Specifications	24	Three-Point Hitch	76
Engine	24	Controls	76
Cooling System	24	Three-Point Hitch Removal	77
Electrical System	24	Three-Point Hitch Installation . . .	78
Hydraulic System	25	Drawbar	79
Capacities	25	Counterweight	80
Travel Speeds	26	PTO	81
Tires	26	Operating Tips	83
Buckets	27	Loader Operating Tips	83
Operating Weights	28	Backhoe Operating Tips	87
Loader	28	Frost Point	93
Standard Backhoe	29	Craning	94
Extendahoe	30	Three-Point Hitch	95
Instruments and Controls	36	Fuels and Lubricants	96
Instrument Cluster	36	Fuel, Fluids and Lubricants Chart . .	98
Machine Controls	38	Maintenance/Lubrication	99
Power Shuttle Models Only	40	Introduction	99
Mechanical Shuttle Models Only . . .	41	Run-In Maintenance Chart	100
Seat, Parking Brake and Differential		Scheduled Maintenance Chart	100
Lock	43	Grease Fittings	102
Engine Operation	44	Engine Oil and Filter	107
Run-In	44	Air Cleaning System	110
Starting Procedure	45	Cooling System	113
Warm-Up	46	Fuel System	116
Idling	46	Electrical System	119
Stopping	46	Lights	119
Starting Aids	46	Alternator	122
Ether Injection	46	Battery	123
Aerosol Starting Fluid	48	Booster Batteries	127
Coolant Heater	49	Hydraulic System	128
Booster Batteries	49	Power Shuttle Transmission	130
Battery Heater	50	Mechanical Shuttle/Dual Range	
Operating the Machine	50	Transmission	132
Operator's Seat	50	4 Speed Transaxle	133
Operator's Seat Belt	51	Power Steering System	135
Gear Selection	52	Front Wheel Bearings	137
Driving the Machine	55	Wheels and Tires	138
Loading Unit Onto Trailer	57	Spark Arresting Muffler	139
Hot Weather Operation	58	Brake Master Cylinders	139
Cold Weather Operation	58	Fan Belt Adjustment	140
Operating Instructions	60	Loader Adjustment	141
Loader Operating Instructions	60	Return-To-Dig	141
Raising and Lowering the		Anti-Rollback Adjustment	142
Bucket	60	Bucket Teeth	143
Rolling Back or Dumping the		Parking Brake Adjustment	144
Bucket	60	PTO Adjustment	145
Opening or Closing the Bucket		Clutch Adjustment	145
Clam	60	Seat Belt Inspection and Care	146
Return-To-Dig	61	Machine Storage	146
Bucket Level Indicator	61	Reactivating Machine	148
4-In-1 Bucket Position In-		After Delivery Checkup	149
dicator	61		

SPECIFICATIONS

NOTE: All specifications are stated in accordance with ICED definitions or SAE standards or recommended practices where applicable.

ENGINE

Make and model	Case G207D, Diesel
Firing order	1-3-4-2
Bore and stroke	4" x 4.125" (102 x 105 mm)
Piston displacement	207 cu in (3392 cm ³)
Compression ratio	16.5 to 1
Horsepower, power shuttle models	
Manufacturer's Rated	.62 at 2100 rpm (46 kW at 2100 r/min)
SAE Net	.55 at 2100 rpm (41 kW at 2100 r/min)
Horsepower, mechanical shuttle models	
Manufacturer's Rated	.57 at 2100 rpm (43 kW 2100 r/min)
SAE Net	.50 at 2100 rpm (37 kW at 2100 r/min)
Engine speeds	
Full throttle, no load	2230-2270 rpm
Rated, full throttle	2100 rpm
Idle speed	700-750 rpm
Fuel	Number 2 diesel, see page 91.
Air cleaner	Dry type
Valve clearance - engine cold	
Intake	.012" (0.30 mm)
Exhaust	.014" (0.35 mm)

COOLING SYSTEM

Radiator pressure cap	4 psi (28 kPa)
Thermostat range	175° to 202° F (80° to 94° C)

ELECTRICAL SYSTEM

Type	12 v, negative ground system
Battery	(1) 12 v
Alternator	12 v, 35 ampere

NOTE: "Right Hand" and "Left Hand", when used in the manual, indicated the right and left sides of the machine as viewed from the operator's seat.

Backhoe Transport Position



755726

Placing Backhoe in Transport Position



CAUTION: For transport, use overcenter position with bucket straight to rear.

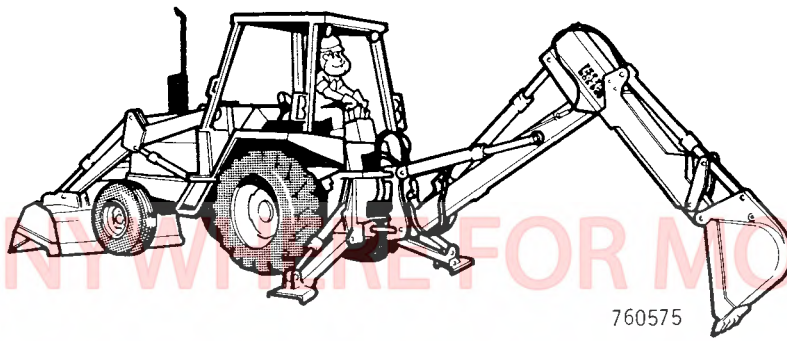
28-4

Before using the loader or transporting the machine, place the backhoe in the transport position as shown above and install the swing lock pin. Failure to install the pin could cause damage to the swing hydraulic system during transport.

NOTE: Use caution if operating the swing controls. Under some conditions, the backhoe will strike the stabilizers if swung to the extreme left or right.

Placing the backhoe in transport position requires that the boom be moved "over center". This means that the boom is moved beyond its vertical position and actually is starting to lower when it hits the stops. The technique for moving the boom "over center" may require practice to master.

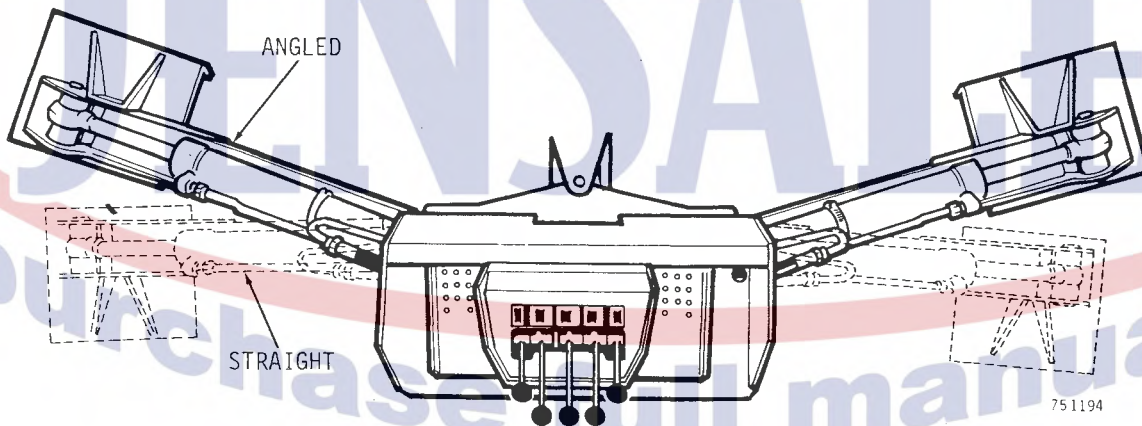
1. Start the engine. Lower the stabilizers to the ground. Position the boom straight to the rear. Insert swing lock pin.



Stabilizers and Pads

The backhoe is equipped with adjustable stabilizers and reversible pads. Whenever possible, use the angled position with pads rearward as shown for the most stability. With stabilizers positioned at right angles to the backhoe and the pads forward as shown by dotted lines, the operator can dig right up to the machine.

NOTE: Use caution when swinging the backhoe to extreme right or left. Under some conditions, the backhoe may strike the stabilizers or machine.



NOTE: For best stability when machine is equipped with Extendahoe, operate with stabilizers angled.

Adjusting the Stabilizers

1. Position the stabilizer clear of the ground.
2. Remove the snap ring from the tapered end of the stabilizer pivot pin.
3. Drive the pivot pin toward the backhoe bucket just far enough to turn the stabilizer and line up the opposite pin hole.
4. Drive the pivot pin in place and install the snap ring.
5. Repeat for the opposite stabilizer.

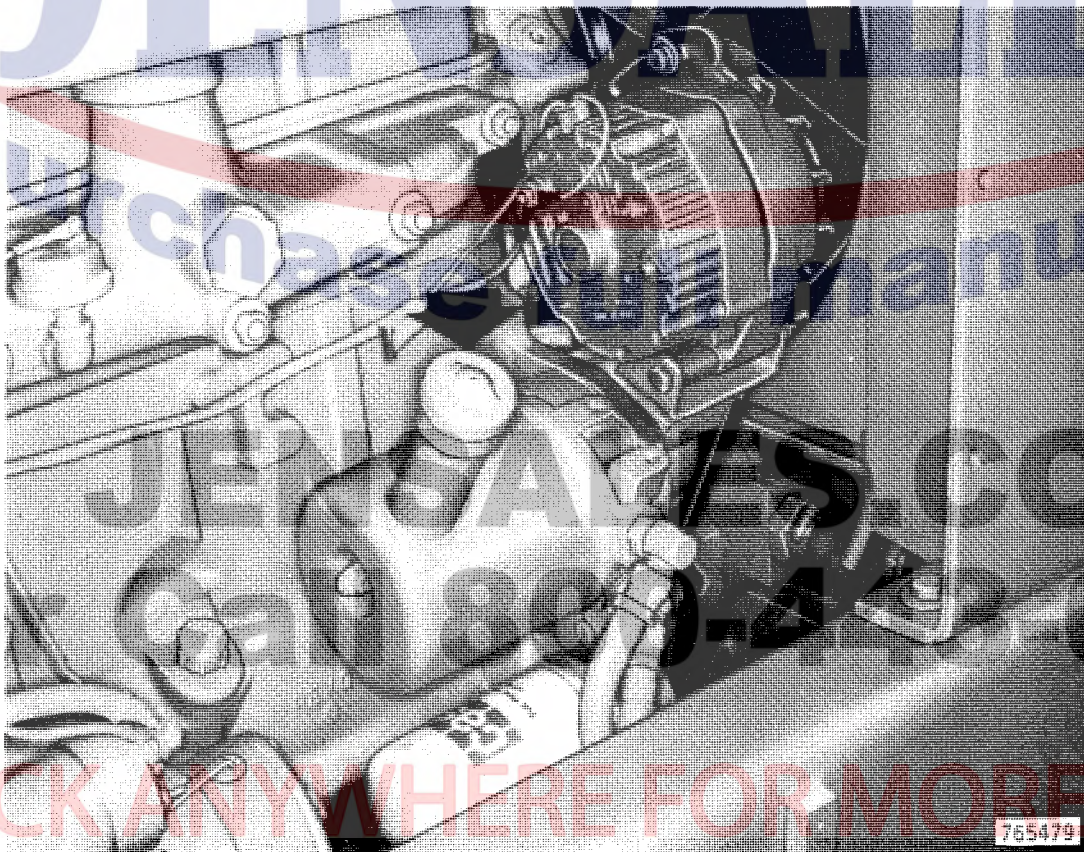
To replace filter element, remove the acorn nut, seal, reservoir shell, special hex nut, spring and retainer. Remove contaminated filter element. Install new element, retainer, spring and jam nut. Compress the spring from the outside of the jam nut to the shell flange on the pump body to 4-15/16" (125 mm), Insert A. Install O-ring, shell, seal and acorn nut. Refer to reservoir oil level.

Filling Reservoir and Bleeding Steering System

Remove the reservoir cap and dipstick. Carefully fill reservoir with Case TCH Fluid until the fluid level reaches the "F" mark on the dipstick. Replace the reservoir cap and dipstick and start the engine.

While bleeding air from the system, operate the engine at low idle speed. Turn the steering wheel through several turns. Make only partial turn with the wheel at first. Make full turns only after a sufficient amount of fluid is added to the system. Stop the engine and refill the reservoir to the "F" mark on the dipstick.

Repeat until the fluid level ceases to drop after turning the steering wheel. The system is then completely filled.



Dipstick and Fill Cap