



CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

J.I. Case

Operator's Manual

310G

Crawler

purchase full manual at

Operator's Manual

**JENSALES.COM**

**or Call 800-443-0625**



CLICK ANYWHERE FOR MORE DETAILS

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-310GCRWLR**

## TABLE OF CONTENTS

|                                          |    |
|------------------------------------------|----|
| SECTION I - DRAWBAR CRAWLER              | 2  |
| INTRODUCTION                             | 2  |
| SERIAL NUMBER LOCATION                   | 4  |
| G 148B GASOLINE ENGINE SPECIFICATIONS    | 5  |
| G 188D DIESEL ENGINE SPECIFICATIONS      | 7  |
| GENERAL SPECIFICATIONS                   | 9  |
| Cooling System                           | 9  |
| Overall Measurements                     | 9  |
| Starting and Lighting System             | 9  |
| Clutch                                   | 10 |
| Transmission                             | 10 |
| Brakes                                   | 10 |
| Approximate Capacities                   | 10 |
| FUEL SPECIFICATIONS                      | 11 |
| Gasoline                                 | 11 |
| Diesel                                   | 11 |
| LUBRICATION                              | 14 |
| Recommended Lubricants                   | 15 |
| Lubrication Schedule                     | 17 |
| Engine Lubrication                       | 18 |
| Engine Oil Filter                        | 20 |
| Crankcase Breather                       | 21 |
| Air Cleaner                              | 22 |
| Generator                                | 22 |
| Distributor                              | 22 |
| Transmission-Differential                | 23 |
| Final Drives                             | 23 |
| Hydraulic System                         | 24 |
| Hydraulic Oil Filter                     | 26 |
| OPERATING INSTRUCTIONS                   | 28 |
| Pre-Starting Check List                  | 28 |
| Controls and Instruments                 | 29 |
| Engine Starting Procedure                | 32 |
| Engine Stopping Procedure                | 33 |
| Cold Weather Starting Procedure (Diesel) | 33 |
| Cold Weather Operation                   | 34 |
| Engine Warm Up Procedure                 | 36 |

CLICK ANYWHERE FOR MORE DETAILS

CLICK ANYWHERE FOR MORE DETAILS

|                            |    |
|----------------------------|----|
| Operating Crawler .....    | 36 |
| Agricultural Drawbar ..... | 38 |
| Industrial Drawbar .....   | 39 |
| Run-In-Procedure .....     | 39 |

CLICK ANYWHERE FOR MORE DETAILS

|                                                     |    |
|-----------------------------------------------------|----|
| PREVENTIVE MAINTENANCE .....                        | 41 |
| Lubrication .....                                   | 41 |
| Cooling System .....                                | 41 |
| Fan Belt .....                                      | 44 |
| Air Cleaner .....                                   | 45 |
| Crankcase Breather .....                            | 46 |
| Diesel Fuel System .....                            | 47 |
| Gasoline Fuel System .....                          | 51 |
| Gasoline Engine Speed and Governor Adjustment ..... | 53 |
| Diesel Engine Speed and Governor .....              | 54 |
| Valve Tappet Adjustment .....                       | 54 |
| Engine Oil Pump .....                               | 55 |
| Gasoline Engine Electrical System .....             | 56 |
| Starting Motor .....                                | 61 |
| Generator-Voltage Regulator Type .....              | 62 |
| Diesel Engine Electrical System .....               | 62 |
| Storage Battery .....                               | 67 |
| Clutch .....                                        | 69 |
| Brakes .....                                        | 70 |
| Track .....                                         | 72 |
| Crawler Storage .....                               | 78 |
| Diesel Engine Storage .....                         | 79 |
| Removing Engine From Storage .....                  | 80 |
| Hydraulic System Trouble Shooting Chart .....       | 82 |

|                           |    |
|---------------------------|----|
| SECTION II - LOADER ..... | 83 |
|---------------------------|----|

|                                          |     |
|------------------------------------------|-----|
| SECTION III - MULTIPURPOSE BUCKETS ..... | 101 |
|------------------------------------------|-----|

|                            |     |
|----------------------------|-----|
| SECTION IV - BACKHOE ..... | 115 |
|----------------------------|-----|

|                          |     |
|--------------------------|-----|
| SECTION V - DOZERS ..... | 153 |
|--------------------------|-----|

|                           |     |
|---------------------------|-----|
| SECTION VI - RIPPER ..... | 177 |
|---------------------------|-----|

|                                         |     |
|-----------------------------------------|-----|
| SECTION VII - PTO AND BELT PULLEY ..... | 183 |
|-----------------------------------------|-----|

|                                        |     |
|----------------------------------------|-----|
| SECTION VIII - THREE POINT HITCH ..... | 189 |
|----------------------------------------|-----|

|                                           |     |
|-------------------------------------------|-----|
| SECTION IX - PULL BEHIND HYDRAULICS ..... | 197 |
|-------------------------------------------|-----|

CLICK ANYWHERE FOR MORE DETAILS

SECTION X - MODEL C-12 WINCH . . . . . 201

SECTION XI - MODEL CG-12 WINCH . . . . . 213

SECTION XII - MODEL 9 WINCH . . . . . 223

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

**JENSALES®**

purchase full manual at

**JENSALES.COM**

**or Call 800-443-0625**

CLICK ANYWHERE FOR MORE DETAILS

## INTRODUCTION

CLICK ANYWHERE FOR MORE DETAILS



**MANUAL PREVIEW**

**JENSALES®**

purchase full manual at

**JENSALES.COM**

or Call **800-443-0625**

Figure 1 - Right Hand Front View of Drawbar Model

CLICK ANYWHERE FOR MORE DETAILS

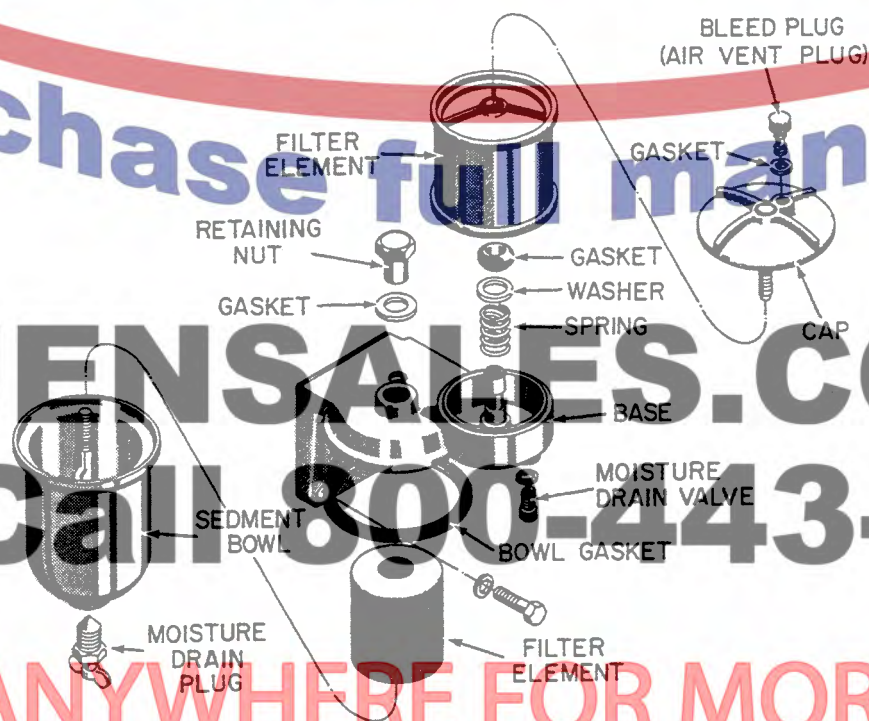
AFTER RUNNING OUT OF FUEL, IT MAY BE POSSIBLE TO REFUEL AND START THE ENGINE WITHOUT BLEEDING. HOWEVER, A SMALL AMOUNT OF AIR MAY REMAIN IN THE FILTER, RESULTING IN LACK OF POWER AND STALLING WHEN A LOAD IS APPLIED.

1. Be certain the fuel tank is full for bleeding operation.
2. Wipe the top of the final filter clean before bleeding the system.
3. Open the shut-off valve and wait a few minutes to make sure the filters are full of fuel.
4. Open the bleed valve on the final filter, and allow the air to bleed out of both the filters. When the bubble free fuel starts to flow, close the bleed valve and wipe the parts free of diesel fuel.

### Servicing Fuel Filters

Clean the filter side of the engine thoroughly. Be sure no dirt is left on the filter bodies.

Close the fuel shut-off valve on the fuel tank. Open the drain valves on the primary filter shell and final filter base.



B58964

Figure 32 - Exploded View of Fuel Filters

## Removing Backhoe

To remove the Backhoe proceed as follows:

1. Have the unit standing on a level spot, preferably concrete or some other hard surface.
2. Start the Crawler and use the control levers to form a "tripod" with the Backhoe. Lower the stabilizers, exerting enough "down pressure" to take all the weight of the Backhoe from the Crawler.

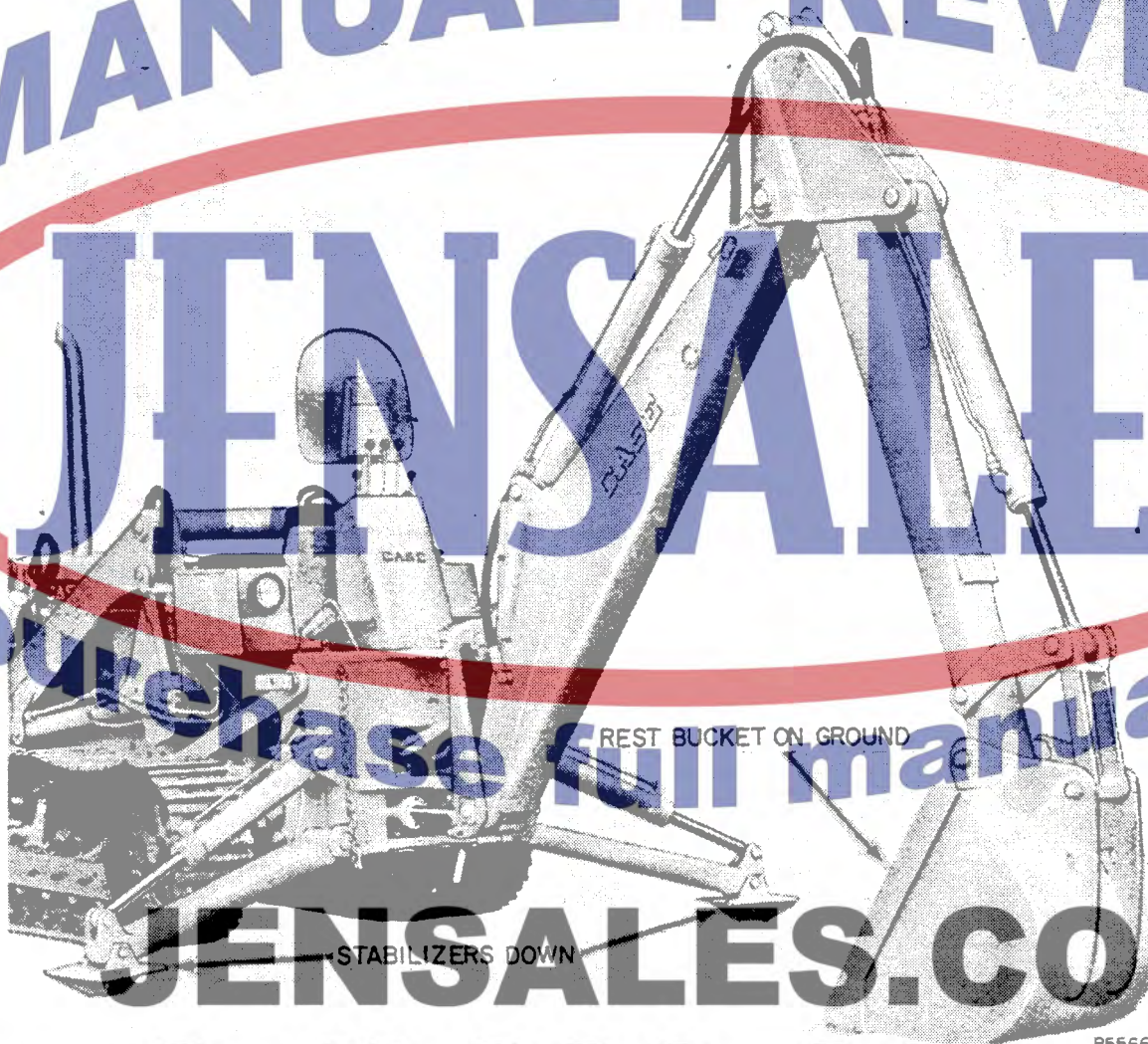


Figure 23 - Backhoe Forming Tripod

3. Remove the wing nut and nut "A" on both sides of the backhoe mounting frame. The wing nut is removed and tightened by striking it with a heavy hammer.

4. Start the Crawler and drive it approximately one foot away from the Backhoe to gain access to the quick disconnect fittings.

The above capacities are based on a perfectly wound cable. Allowance must be made for uneven cable winding during operation.

### Optional Fairleads

Length of Horizontal Rollers . . . . . 6-1/2 Inches  
Distance between Horizontal Rollers (center to center) . 14-5/8 in.  
Length of Vertical Rollers . . . . . 18 Inches  
Distance between Vertical Rollers (center to center) . 8-1/2 Inches  
Shipping Weight . . . . . 125 Pounds

### LUBRICATION

The lubricant (gear oil) should be drained after the first 40 hours operation and then every 600 hours operation thereafter.

#### NOTE!

HOURS MENTIONED ABOVE REFER TO TRACTOR HOURS RECORDED ON HOURMETER — NOT WINCH OPERATING HOURS.

High humidity will cause condensation inside the winch case. IN AREAS OF HIGH HUMIDITY, PERIODICALLY REMOVE DRAIN PLUG FROM BOTTOM OF CASE TO ALLOW CONDENSATE (WATER) TO DRAIN OUT. This will alleviate corrosion or rusting of internal parts. BE SURE TO REFILL WINCH WITH OIL AFTER DRAINING.



BI0364

Figure 2 - Drain, Fill, and Level Plugs

## Brake "Run In"

If the winch is new and the brake will not hold a load, the brake may need to be "run in". To "run in" the brake, attach the winch cable to a stump and drive the crawler away from the stump using low gear. Allow the brake to slip just enough to let the crawler move forward until all the cable has been run out from the drum. Repeat this operation until the crawler has traveled a total of 300 feet. Allow the winch to cool and check the holding power of the brake. Repeat if necessary.

## PREVENTIVE MAINTENANCE

The Model 9 Winch is designed for trouble free operation. It will require very little attention. Make it a daily habit to check the winch, line connections, and control valve for signs of leakage.

### Bleeding the Hydraulic System



Figure 6 - Bleeding the Hydraulic System

Before the initial use of the winch or after repair or replacement of the master control unit, cylinders, or lines, it may be necessary to bleed the hydraulic system.