1150G Crawlers Service Manual Table of Contents

| Description | Section No. | Form No. |
|--|--------------|--------------------|
| General | Tab 1 | |
| Standard Torque Specifications | 1001 | |
| Fluid and Lubricant Specifications | 1002 | 7-62591 |
| Loctite Product Chart | | 8-98901 |
| Engines | Tab 2 | |
| Engine Removal and Installation | 2001 | 7-64740 |
| Engine Stall Tests | 2002 | 7-62601 |
| Specification Details | 2401 | 8-26064 |
| Cylinder Head and Valve Train | 2415 | 8-26074 |
| Cylinder Block | 2425 | 8-26085 |
| Lubrication System | 2445 | 8-26093 |
| Cooling System | 2455 | 8-26104 |
| Turbocharger | 2465 | 8-26111 |
| Turbocharger Failure Analysis | 2565 | 9-78235 |
| Fuel System | Tab 3 | |
| Fuel System and Filters | 3410 | 8-26132 |
| Fuel Injectors | 3413 | 8-26153 |
| Injection Pump - Bosch | 3412 | 8-26144 |
| Electrical | Tab 4 | |
| Electrical Schematics and Troubleshooting | 4002 | 7:62610 |
| Batteries | 4003 | 8-12351 |
| Instrument Panel and Gauges | 4004 | 7-65460 |
| Alternator | 4005 | 7-65620 |
| Starter and Starter Solenoid | 4006 | 7-48331 |
| | | |
| Tracks | Tab 5 | N 00004 |
| Undercarnage Fundamentals | 5001 5501 | 8-99831 7-65510 |
| Case Lubricated Track | 5504 | |
| Sealed Track | 5505 | 7-65560 |
| Track Frame and Suspension | | 7-65540 |
| Idler, Track Adjuster and Recoil Housing | 5508 | 7-65610 |
| Sprocket and the second s | 5509 | |
| Carrier Roller | 5510 | 8-14571 |
| Track Roller | 5511 | 8-14581 |
| | | |

CASE CORPORATION 700 State Street Racine, WI 53404 U.S.A.

CASE CANADA CORPORATION 3350 South Service Road Burlington, ON L7N 3M6 CANADA

| Description | Section No. | Form No. |
|--|--------------|---------------------------|
| Power Train | Tab 6 | |
| Transmission Removal and Installation | 6001 | 7-64760 |
| Specifications, Schematics and Troubleshooting | 6002 | 7-62621 |
| Charging Pump Transmission Control Valve | 6005 6007 | 9-67862 7-65860 |
| Torque Converter and Torque Converter Housing | 6010 | 7-65600 |
| Transmission | 6016 | 7-64770 |
| Final Drive | 6017 | 7-63760 |
| Brakes | Tab 7 | |
| Removal and Installation of Brake Valve and Removing Air From the Brake System | 7001 | 8-19081 |
| Brake Valve | 7002 | 7-48581 |
| Brakes | 7003 | 7-64780 |
| Hydraulics | Tab 8 | |
| Specifications, Troubleshooting and Schematics | 8002 | 7-62630 |
| Cleaning the Hydraulic System Dozer Control Valve | 8003 8007 | 8-14711 |
| Cylinders | 8008 | 7-63820 7-64800 |
| | T 1 0 | |
| Mounted Equipment Pedals and Levers | Tab 9 | 7-62641 |
| Air Conditioning Troubleshooting | 9002 | 7-62041 7-64810 |
| Air Conditioning Gauges and Testing | 9003 | 7-64820 |
| Air Conditioning System Service | 9004 | 7-64830 |
| Air Conditioner System Component Servicing | 9005 | 7-64840 |
| Dozer Blade | 9020 | 7-64850 |
| Ripper | 9030 | 7-65450 |
| ROPS Cab and Canopy | 9061 0063 | 7-48521 |
| Suspension Seat | 9063 | 7-48531 |

Section 1001

STANDARD TORQUE SPECIFICATIONS

CASE CORPORATION 700 State Street Racine, WI 53404 U.S.A.

CASE CANADA CORPORATION 3350 South Service Road Burlington, ON L7N 3M6 CANADA

© 1994 Case Corporation Printed in U.S.A. Issued November, 1991

TABLE OF CONTENTS

| TORQUE SPECIFICATIONS - DECIMAL HARDWARE | 2 |
|--|---|
| TORQUE SPECIFICATIONS - METRIC HARDWARE | 3 |
| TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS | 4 |
| TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS | 5 |

TORQUE SPECIFICATIONS - DECIMAL HARDWARE

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers dry, or when lubricated with engine oil. Not applicable if special graphities, Molydisulfide greases, or other extreme pressure lubricants are used.

| Grade 5 Bolts, Nuts, and Studs | | | | | |
|--------------------------------|--------------------------------------|------------------|--|--|--|
| E | $\bigcirc \bigcirc \bigcirc \oslash$ | | | | |
| Size | Pound- Inches | Newton metres | | | |
| 1/4 inch | 108 to 132 | 12 to 15 | | | |
| 5/16 inch | 204 to 252 | 23 to 28 | | | |
| 3/8 inch | 420 to 504 | 48 to 57 | | | |
| Size | Pound- Feet | Newton metres | | | |
| 7/16 inch | 54 to 64 | 73 to 87 | | | |
| 1/2 inch | 80 to 96 | 109 to 130 | | | |
| 9/16 inch | 110 to 132 | 149 to 179 | | | |
| 5/8 inch | 150 to 180 | 203 to 244 | | | |
| 3/4 inch | 270 to 324 | 366 to 439 | | | |
| 7/8 inch | 400 to 480 | 542 to 651 | | | |
| 1.0 inch | 580 to 696 | 787 to 944 | | | |
| 1-1/8 inch | 800 to 880 | 1085 to 1193 | | | |
| 1-1/4 inch | 1120 to 1240 | 1519 to 1681 | | | |
| 1-3/8 inch | 1460 to 1680 | 1980 to 2278 | | | |
| 1-1/2 inch | 1940 to 2200 | 2631 to 2983 | | | |

| Grade 8 Bolts, Nuts, and Studs | | | | |
|--|------------------|------------------|--|--|
| $(\rightarrow) () () () () () () () () ($ | | | | |
| Size | Pound- Inches | Newton metres | | |
| 1/4 inch | 144 to 180 | 16 to 20 | | |
| 5/16 inch | 288 to 348 | 33 to 39 | | |
| 3/8 inch | 540 to 648 | 61 to 73 | | |
| | Pound- | Newton | | |
| Size | Feet | metres | | |
| 7/16 inch | 70 to 84 | 95 to 114 | | |
| 1/2 inch | 110 to 132 | 149 to 179 | | |
| 9/16 inch | 160 to 192 | 217 to 260 | | |
| 5/8 inch | 220 to 264 | 298 to 358 | | |
| 3/4 inch | 380 to 456 | 515 to 618 | | |
| 7/8 inch | 600 to 720 | 814 to 976 | | |
| 1.0 inch | 900 to 1080 | 1220 to 1465 | | |
| 1-1/8 inch | 1280 to 1440 | 1736 to 1953 | | |
| 1-1/4 inch | 1820 to 2000 | 2468 to 2712 | | |
| 1-3/8 inch | 2380 to 2720 | 3227 to 3688 | | |
| 1-1/2 inch | 3160 to 3560 | 4285 to 4827 | | |
| NOTE: Use thick nuts with Grade 8 bolts. | | | | |

Printed in U.S.A

TORQUE SPECIFICATIONS - METRIC HARDWARE

Use the following torques when specifications are not given.

These values apply to fasteners with coarse threads as received from supplier, plated or unplated, or when lubricated with engine oil. These values do not apply if graphite or Molydisulfide grease or oil is used.

| Grade 8.8 Bolts, Nuts, and Studs | | | | |
|----------------------------------|------------------|------------------|--|--|
| 8.8 | | | | |
| Size | Pound- Inches | Newton metres | | |
| M4. | 24 to 36 | 3 to 4 | | |
| M5 | 60 to 72 | 7 to 8 | | |
| M6 | 96 to 108 | 11 to 12 | | |
| M8 | 228 to 276 | 26 to 31 | | |
| M10 | 456 to 540 | 52 to 61 | | |
| | Pound- | Newton | | |
| Size | Feet | metres | | |
| M12 | 66 to 79 | 90 to 107 | | |
| M14 | 106 to 127 | 144 to 172 | | |
| M16 | 160 to 200 | 217 to 271 | | |
| M20 | 320 to 380 | 434 to 515 | | |
| M24 | 500 to 600 | 675 to 815 | | |
| M30 | 920 to 1100 | 1250 to 1500 | | |
| M36 | 1600 to 1950 | 2175 to 2600 | | |

| Grade 10.9 Bolts, Nuts, and Studs | | | | |
|-----------------------------------|------------------|------------------|--|--|
| (10.9) | | | | |
| Size | Pound- Inches | Newton metres | | |
| M4. | 36 to 48 | 4 to 5 | | |
| M5 | 84 to 96 | 9 to 11 | | |
| M6 | 132 to 156 | 15 to 18 | | |
| M8 | 324 to 384 | 37 to 43 | | |
| Size | Pound- Feet | Newton metres | | |
| M10 | 54 to 64 | 73 to 87 | | |
| M12 | 93 to 112 | 125 to 150 | | |
| M14 | 149 to 179 | 200 to 245 | | |
| M16 | 230 to 280 | 310 to 380 | | |
| M20 | 450 to 540 | 610 to 730 | | |
| M24 | 780 to 940 | 1050 to 1275 | | |
| M30 | 1470 to 1770 | 2000 to 2400 | | |
| M36 | 2580 to 3090 | 3500 to 4200 | | |

Grade 12.9 Bolts, Nuts, and Studs



Usually the torque values specified for grade 10.9 fasteners can be used satisfactorily on grade 12.9 fasteners.

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

| Tube OD Hose ID | Thread Size | Pound- Inches | Newton metres | | | |
|------------------------------------|-------------------------|------------------|------------------|--|--|--|
| | 37 Degree Flare Fitting | | | | | |
| 1/4 inch 7/16-20 72 to 144 8 to 16 | | | | | | |
| 6.4 mm | | | | | | |
| 5/16 inch | 1/2-20 | 96 to 192 | 11 to 22 | | | |
| 7.9 mm | | | | | | |
| 3/8 inch 9.5 mm | 9/16-18 | 120 to 300 | 14 to 34 | | | |
| 1/2 inch | 3/4-16 | 180 to 504 | 20 to 57 | | | |
| 12.7 mm | 3/4-10 | 100 (0 304 | 20 10 37 | | | |
| 5/8 inch | 7/8-14 | 300 to 696 | 34 to 79 | | | |
| 15.9 mm | | | | | | |
| Tube OD | Thread | Pound- | Newton | | | |
| Hose ID | Size | Inches | metres | | | |
| 3/4 inch 19.0 mm | 1-1/16-12 | 40 to 80 | 54 to 108 | | | |
| 7/8 inch | 1-3/16-12 | 60 to 100 | 81 to 135 | | | |
| 22.2 mm | | | | | | |
| 1.0 inch 25.4 mm | 1-5/16-12 | 75 to 117 | 102 to 158 | | | |
| 1-1/4 inch | 1-5/8-12 | 125 to 165 | 169 to 223 | | | |
| 31.8 mm | | | | | | |
| 1-1/2 inch 38.1 mm | 1-7/8-12 | 210 to 250 | 285 to 338 | | | |

| Split Flange Mounting Bolts | | | |
|-----------------------------|------------------|------------------|--|
| Size | Pound- Inches | Newton metres | |
| 5/16-18 | 180 to 240 | 20 to 27 | |
| 3/8-16 | 240 to 300 | 27 to 34 | |
| 7/16-14 | 420 to 540 | 47 to 61 | |
| | Pound- | Newton | |
| Size | Feet | metres | |
| 1/2-13 | 55 to 65 | 74 to 88 | |
| 5/8-11 | 140 to 150 | 190 to 203 | |

| Tube OD Hose ID | Thread Size | Pound- Inches | Newton metres |
|-----------------------|----------------|------------------|------------------|
| | | ds with O-ri | |
| 01 | | | ''9 |
| 1/4 inch 6.4 mm | 7/16-20 | 144 to 228 | 16 to 26 |
| 5/16 inch 7.9 mm | 1/2-20 | 192 to 300 | 22 to 34 |
| 3/8 inch 9.5 mm | 9/16-18 | 300 to 480 | 34 to 54 |
| 1/2 inch 12.7 mm | 3/4-16 | 540 to 804 | 57 to 91 |
| Tube OD | Thread | Pound- | Newton |
| Hose ID | Size | Inches | metres |
| 5/8 inch 15.9 mm | 7/8-14 | 58 to 92 | 79 to 124 |
| 3/4 inch 19.0 mm | 1-1/16-12 | 80 to 128 | 108 to 174 |
| 7/8 inch 22.2 mm | 1-3/16-12 | 100 to 160 | 136 to 216 |
| 1.0 inch 25.4 mm | 1-5/16-12 | 117 to 187 | 159 to 253 |
| 1-1/4 inch 31.8 mm | 1-5/8-12 | 165 to 264 | 224 to 357 |
| 1-1/2 inch 38.1 mm | 1-7/8-12 | 250 to 400 | 339 to 542 |

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

| Nom. SAE Dash Size | Tube OD | Thread Size | Pound- Inches | Newton metres | Thread Size | Pound- Inches | Newton metres |
|-----------------------------|-----------------------|----------------|------------------|------------------|------------------------------|------------------|------------------|
| | O-ring Face Seal End | | | | -ring Boss E ting or Lock | | |
| -4 | 1/4 inch 6.4 mm | 9/16-18 | 120 to 144 | 14 to 16 | 7/16-20 | 204 to 240 | 23 to 27 |
| -6 | 3/8 inch 9.5 mm | 11/16-16 | 216 to 240 | 24 to 27 | 9/16-18 | 300 to 360 | 34 to 41 |
| -8 | 1/2 inch 12.7 mm | 13/16-16 | 384 to 480 | 43 to 54 | 3/4-16 | 540 to 600 | 61 to 68 |
| | | | | | Thread Size | Pound- Inches | Newton metres |
| -10 | 5/8 inch 15.9 mm | 1-14 | 552 to 672 | 62 to 76 | 7/8-14 | 60 to 65 | 81 to 88 |
| Nom. SAE | | | | | 1-1/16-12 | 85 to 90 | 115 to 122 |
| Dash Size | Tube OD | Thread Size | Pound- Inches | Newton metres | 1-3/16-12 | 95 to 100 | 129 to 136 |
| -12 | 3/4 inch 19.0 mm | 1-3/16-12 | 65 to 80 | 90 to 110 | 1-5/16-12 | 115 to 125 | 156 to 169 |
| -14 | 7/8 inch 22.2 mm | 1-3/16-12 | 65 to 80 | 90 to 110 | 1-5/8-12 | 150 to 160 | 203 to 217 |
| -16 | 1.0 inch 25.4 mm | 1-7/16-12 | 92 to 105 | 125 to 140 | 1-7/8-12 | 190 to 200 | 258 to 271 |
| -20 | 1-1/4 inch 31.8 mm | 1-11/16-12 | 125 to 140 | 170 to 190 | | | |
| -24 | 1-1/2 inch 38.1 mm | 2-12 | 150 to 180 | 200 to 254 | | | |

NOTE: Case Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

1002

Section 1002

FLUIDS AND LUBRICANTS

1150G Crawler

CASE CORPORATION 700 State Street Racine, WI 53404 U.S.A.

CASE CANADA CORPORATION 3350 South Service Road Burlington, ON L7N 3M6 CANADA

TABLE OF CONTENTS

| CAPACITIES AND LUBRICANTS | 2 |
|--|--------|
| ENGINE LUBRICATION | |
| Engine Oil Selection Oil Viscosity / Temperature Ranges | 3 3 |
| MAINTENANCE SCHEDULE | 4 |
| MAINTENANCE LOCATIONS | 5 |

CAPACITIES AND LUBRICANTS

| Engine Oil | |
|--|--|
| Capacity with filter change | 16 U.S. quarts (15.1 litres) |
| Type of Oil | See Engine Oil Selection on Page 3 |
| Engine Cooling System | |
| Capacity without heater | |
| Capacity with cab heater | |
| Type of Coolant | Ethylene Glycol and water mixed for lowest ambient temperature at least 50/50 mix |
| Fuel Tank | |
| Capacity | |
| Type of Fuel | No. 2 Diesel Fuel |
| Hydraulic System | |
| Capacity - reservoir refill with filter change | 17 U.S. gallons (64.4 litres) |
| System Capacity | |
| Type of Oil | Case TCH Nuid |
| Transmission and Torque Converter | |
| Capacity - sump refill with filter change Capacity - sump refill only | |
| System Capacity | |
| Type of Oil | Case TCH Fluid |
| Final Drives | |
| Capacity (each side) | |
| Type of Oil | Case 135H EP Gear Lube |
| Air Conditioning Refrigerant | |

ENGINE LUBRICATION Engine Oil Selection

Case No. 1 Engine Oil is recommended for use in your Crawler Engine. Case Engine Oil will lubricate your engine correctly under all operating conditions.

If Case No. 1 Multi-Viscosity or Single Viscosity Engine Oil is not available, use only oil meeting API engine oil service category CE.

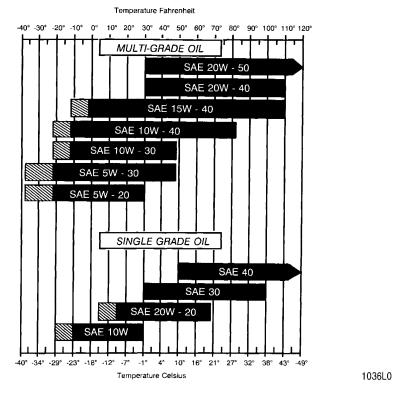


292L91

See the chart below for recommended viscosity at ambient air temperature ranges.

NOTE: Do not put Performance Additives or other oil additive products in the engine crankcase. The oil change intervals given in this manual are according to tests with Case Lubricants.





Oil Viscosity / Temperature Ranges

NOTE: Use of an engine oil pan heater or an engine coolant heater is required when operating temperatures are in the crosshatch area.

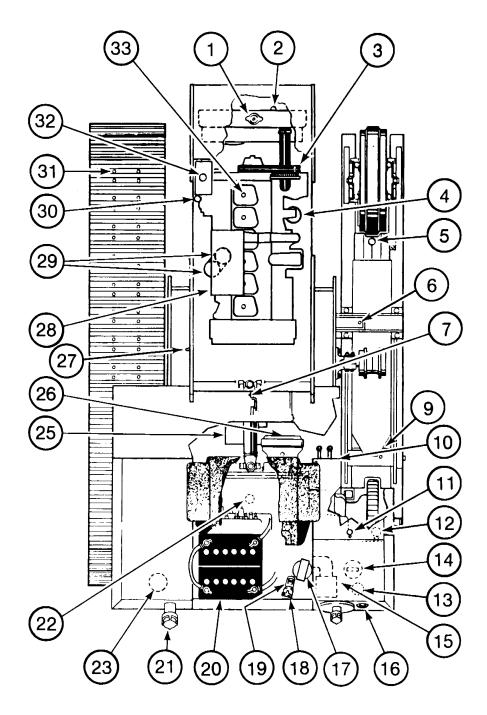
MAINTENANCE SCHEDULE

| | AS REQUIRED | |
|------------|--|---|
| 3. | CHECK THE FAN DRIVE BELT FOR WEAR | |
| 28. | SERVICE THE AIR CLEANER ELEMENT IF RED BAND IN RESTRICTION | |
| | INDICATOR IS IN FULL VIEW | SEE OPERATORS MANUAL |
| 5. | CHECK TRACK TENSION AND ADJUST AS REQUIRED - SEE NOTE 1 | SEE OPERATORS MANUAL |
| 31. | CHECK TRACK SHOE BOLT TORQUE | SEE OPERATORS MANUAL |
| 21. | CLEAN THE FUEL TANK FILLER SCREEN | CLEAN WITH SOLVENT |
| 23. | DRAIN WATER AND SEDIMENT FROM FUEL TANK | SEE OPERATORS MANUAL |
| 28. | CLEAN THE PRECLEANER DUST BOWL | SEE OPERATORS MANUAL |
| 17. | REPLACE THE TRANSMISSION FLUID FILTER IF THE WARNING LAMP | |
| 32. | FOR THE TRANSMISSION FLUID FILTER ILLUMINATES CHECK COOLANT RESERVOIR FLUID LEVEL IF THE WARNING LAMP | USE CASE FILTER |
| 52. | FOR THE COOLANT LEVEL ILLUMINATES - SEE NOTE 2 | ETHYLENE GLYCOL AND WATER |
| | EVERY 10 HOURS OF OPERATION OR EACH DAY - WH | ICHEVER OCCURS FIRST |
| 30. | CHECK ENGINE OIL LEVEL | |
| 18. | CHECK TRANSMISSION OIL LEVEL | CASE TCH FLUID |
| 16. | CHECK HYDRAULIC RESERVOIR OIL LEVEL | CASE TCH FLUID |
| | EVERY 50 HOURS OF OPERATIC | N |
| | | |
| 28. | CHECK AIR CLEANER DUST VALVE AND COVER WING NUT | SEE OPERATORS MANUAL |
| 29. | DRAIN WATER AND SEDIMENT FROM FIRST STAGE FUEL FILTER | |
| | LUBRICATE EQUIPMENT PIVOT POINTS (NOT SHOWN) | SEE OPERATORS MANUAL |
| 27. | LUBRICATE EQUALIZER ARM CENTER PIVOT | MOLYDISULFIDE GREASE |
| 6. | LUBRICATE EQUALIZER ARM OUTER PIVOTS | |
| | EVERY 250 HOURS OF OPERATIO | |
| 30. | CHANGE ENGINE OIL - 16 QUARTS (15 LITRES) | |
| 4. | REPLACE ENGINE OIL FILTER | USE CASE FILTER |
| 11. | CHECK FINAL DRIVE OIL LEVEL (EACH SIDE) | CASE 135-H EP GEAR LUBE |
| | CHECK CONDITION OF AIR CONDITIONING DRIVE BELT (NOT SHOWN) | SEE OPERATORS MANUAL |
| 20. | CHECK BATTERY FLUID LEVEL | CLEAN OR DISTILLED WATER |
| 1. | CHECK RADIATOR FLUID LEVEL (COOLANT COLD) - SEE NOTE 2 | ETHYLENE GLYCOL AND WATER |
| | EVERY 500 HOURS OF OPERATIO | DN |
| 29. | REPLACE FUEL FILTERS | USE CASE FILTERS |
| 14. | REPLACE HYDRAULIC FLUID FILTER | |
| 9. | LUBRICATE PIVOT SHAFT HOUSING | |
| 0. | INSPECT ROPS CAB OR ROPS CANOPY AND SEAT (NOT SHOWN) | |
| | EVERY 1000 HOURS OF OPERATI | ON |
| 17. | REPLACE TRANSMISSION FLUID FILTER | |
| 26. | CHECK BRAKE WEAR | |
| 20. 19. | CLEAN TRANSMISSION DIPSTICK BREATHER | CLEAN WITH SOLVENT |
| 22. | CHANGE TRANSMISSION FLUID | |
| 22. | CLEAN TRANSMISSION SUCTION SCREEN | |
| 20. 12. | CLEAN HYDRAULIC FLUID RESERVOIR BREATHER | |
| 13. | CHANGE HYDRAULIC FLUID | |
| 15. | CLEAN HYDRAULIC FLUID SCREEN | |
| 15. 11. | CHANGE FINAL DRIVE OIL | |
| 33. | CHANGE FINAL DRIVE OIL | |
| 33. 21. | CLEAN BREATHER IN THE FUEL TANK CAP | |
| | LUBRICATE DRIVE SHAFT SPLINE | |
| 7. | | |
| | EVERY 2000 HOURS OF OPERATION OR EACH YEAR - WI | |
| 28. | REPLACE BOTH AIR CLEANER ELEMENTS EACH YEAR | SEE OPERATORS MANUAL |
| 2. | DRAIN, FLUSH AND REFILL THE COOLING SYSTEM - SEE NOTE 2 | SEE OPERATORS MANUAL |
| | WITH HEATER - 29 QUARTS (27.4 LITRES) | |
| | WITHOUT HEATER - 26 QUARTS (24.6 LITRES) | |
| | TE de Canierana address life, change have the treat terrior correct. Adjust the | treater for 1 E to 0 inches (20 to E1 mm) of troats |

NOTE 1: For increased track life, always keep the track tension correct. Adjust the tracks for 1.5 to 2 inches (38 to 51 mm) of track sag. See the operators manual for correct procedure.

NOTE 2: Use a 50/50 mixture of Ethylene Glycol and Water in the cooling system, when adding coolant. If the ambient temperature is lower than -34°F (-37°C), adjust the mixture.

MAINTENANCE LOCATIONS



648L94

IF YOU OPERATE THE MACHINE IN SEVERE CONDITIONS, LUBRICATE AND SERVICE THE MACHINE MORE FREQUENTLY. IT IS RECOMMENDED THAT YOU SEE YOUR CASE DEALER FOR INFORMATION ON THE SYSTEMGARD LUBRICATION ANALYSIS PROGRAM.

SEE YOUR OPERATORS MANUAL FOR MAINTENANCE OF SAFETY RELATED ITEMS AND FOR DETAILED INFORMATION OF THE SERVICE ITEMS ON THIS CHART. OPERATORS MANUALS, SERVICE MANUALS, PARTS CATALOGS AND MAINTENANCE DECALS ARE AVAILABLE FOR THIS MACHINE FROM YOUR CASE DEALER.

NOTE: Case Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

| ⊢ |
|-------------------------|
| Ċ |
| A |
| I |
| C |
| ⊢ |
| Ċ |
| ň |
| |
| Ο |
| ň |
| Δ |
| |
| F |
| |
| $\overline{\mathbf{O}}$ |
| ŏ |
| $\mathbf{}$ |

_

| | | Form a Gasket (works with oil, fuel or grease) Pliable | | Parts Cleaner Fluid | Wicking Threadlocker | / Low Strength Threadlocker | Low Strength Threadlocker (Small Screws) | Constrength Threadlocker | 4 Medium Strength Threadlocker | High Strength Threadlocker | | | High Temperature, High Strength | High Strength Threadlocker | High Strength Threadlocker | Wicking Threadlocker | | N Surface Insensitive Adhesive | A Gel Instant Adhesive | Instant Adhesive | A Gap Filling Instant Adhesive (Metals) | Gap Filling Instant Adhesive (Plastics) | Wicking Instant Adhesive | Gap Filling Instant Adhesive | Metal Bonding Adhesive | Fast Setting 2 Part Epoxy | Surface Insensitive Gen Instant Adhesive | — | Metal Bonding Adhesive | e Rigid Gasket Eliminator | Flange Sealant | High Temperature, GAsket Eliminator | I Gasket Eliminator 515 | Printed in U.S.A. |
|---|-----------------|--|--------|---------------------|----------------------|-----------------------------|---|--------------------------|--------------------------------|----------------------------|----------------|----------------|---------------------------------|----------------------------|----------------------------|----------------------|---------------|--------------------------------|------------------------|------------------|---|---|--------------------------|------------------------------|------------------------|---------------------------|---|---------------|------------------------|---------------------------|----------------|-------------------------------------|-------------------------|--|
| | Primer | A/N | N/A | N/A | 747 | 747 | 764 | 747 | 764 | 747 | 747 | 764 | 764 | 747 | 764 | 764 | NA | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | A/A | None | 764 | 764 | 764 | |
| Fixture/Full Cure (Steel/Steel) Time | | 24 hr | Fast | N/A | 6 min/24 hrs | 2 min/24 hrs | 20 min/24 hrs | 7 min/24 hrs | 10 min/24 hrs | 5 min/24 hrs | 3 min/24 hrs | 10 min/24 hrs | 30 min/24 hrs | 3 min/24 hrs | 60 min/24 hrs | 6 min/24 hrs | 30 sec/24 hrs | 15 sec/24 hrs | 50 sec/24 hrs | 30 sec/24 hr | 50 sec/24 hrs | 50 sec/24 hrs | 15 sec/24 hrs | 60 sec/24 hrs | 20 sec/24 hrs | 5 min/24 hrs | 15 sec/24 hrs | 20 sec/24 hrs | 20 sec/24 hrs | 90 min/24 hrs | 6 hr/72 hrs | 30 min/24 hrs | 1 hr/24 hrs | viscosity |
| Working Temperature | Range-Farenheit | | | | -65 to +250 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +450 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +180 | -65 to +300 | -65 to +320 | -65 to +400 | -65 to +300 | * Products 404-496 (except for #445) are all instant adhesives (super glues) they differ mostly in viscosity |
| Strength | (Steel/Steel) | | | | 57/143 in lbs | 75/44 in lbs | 53/30 in lbs | 45/25 in lbs | 80/50 in lbs | 160/190 in lbs | 160/320 in lbs | 160/320 in lbs | 180/220 in lbs | 210/300 in lbs | 225/300 in lbs | 85/350 in lbs | 3200 psi | 3200 psi | 2500 psi | 2500 psi | 2500 psi | 2500 psi | 2500 psi | 2800 psi | 2500 psi | 2000 psi | 3200 psi | 2500 psi | 2500 psi | 750 psi | 750 psi | 1000 psi | 750 psi | instant adhesives (super |
| Gap | (In Inches) | | | | 0.003 | 0.005 | 0.005 | 0.010 | 0.005 | 0.005 | 0.007 | 0.007 | 0.007 | 0.010 | 0.010 | 0.003 | 0.006 | 0.004 | 0.008 | 0.006 | 0.010 | 0.010 | 0.002 | 0.020 | 0.005 | 0.250 | 0.010 | 0.004 | 0.005 | 0.030 | 0.020 | 0.020 | 0.010 | or #445) are all |
| | Products (| | | | 290 | 222 | | 222 | | 271 | 271 | 262 | 620 | 277 | | | 495 | | 454 | | 454 | 454 | | 454 | | | | | | 515 | | | | 404-496 (except fc |
| | Color | Dark Brown | Yellow | Clear | Blue | Purple | Purple | Brown | Blue | Red | Green | Red | Red | Green | Red | Green | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | White/Black | Clear | Clear | Clear | Brt Orange | Light Blue | Red | Purple | * Products |
| - | Product | С# | 80 | 123 | 220 | 221 | 222 | 225 | 242 | 262 | 270 | 271 | 272 | 275 | 277 | 290 | *404 | *406 | *409 | *414 | *415 | *416 | *420 | *422 | *430 | *445 | *454 | *495 | *496 | 504 | 509 | 510 | 515 | Rac 8-98902 |

| ART |
|------------|
| CHA |
| UCT |
| SODI |
| Ц |
| CTIT |
| L O |

| | | Description | Gasket Eliminator 518 for Aluminum | Hydraulic Sealant | Low Strength Pneumatic/Hydraulic Sealant | Instant Seal Plastic Gasket | Refrigerant Sealant | Pipe Sealant for Stainless Steel | Plastic Gasket | Hydraulic Sealant | Steam Sealant | Pipe Sealant | Gasketing | Pipe Sealant with Teflon | RTV Silicone | Current PIN #609 | General Purpose Retaining Compound | High Temperature Retaining Compound | High Strength Retaining Compound | High Strength Retaining Compound | High Temperature Retaining Compound | Quick Metal | General Purpose Retaining Compound | High Strength Retaining Compound | Cleaning Solvent | Activaltor for Structural Adhesives | Primer NF | Depend Activator | Primer T | Activator for Structural Adhesives | Cleaning Solvent | Primer N | Anti-Seize Lubricant |
|-------------------|--------------------|-----------------|------------------------------------|-------------------|---|-----------------------------|---------------------|----------------------------------|----------------|-------------------|---------------|-------------------|---------------|--------------------------|---------------|------------------|------------------------------------|--|----------------------------------|----------------------------------|-------------------------------------|---------------|------------------------------------|----------------------------------|------------------|-------------------------------------|-----------|------------------|----------|------------------------------------|------------------|----------|----------------------|
| | | Primer | 764 | 747 | 747 | 747 | 764 | 764 | 764 | 764 | 764 | 764 | None | 736 | N/A | 764 | 764 | 747 | 747 | 747 | 747 | 764 | 747 | 747 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Fixture/Full Cure | (Steel/Steel) Time | | 1hr/24 hrs | 2 hr/24 hrs | 4 hr/24 hrs | 2 hr/24 hrs | 2 to 4 hrs/24 hrs | 4 hrs/24 hrs | 12 hrs/24 hrs | 1 hr/24 hrs | 6 hrs/72 hrs | 2 to 4 hrs/24 hrs | 24 hrs/72 hrs | 4 hrs/72 hrs | 30 min/24 hrs | 10 min/24 hrs | 10 min/24 hrs | 30 min/24 hrs | 1 hr/24 hrs | 10 min/24 hrs | 1 hr/24 hrs | 20 min/24 hrs | 20 min/24 hrs | 10 min/24 hrs | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Working | Temperature | Range-Farenheit | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +400 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +300 | -65 to +400 | -95 to +400 | -65 to +300 | -65 to +300 | -65 to +450 | -65 to +300 | -65 to +300 | -65 to +400 | -65 to +300 | -65 to +300 | -65 to +300 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | -65 to +1600 |
| | Strength | (Steel/Steel) | 500psi | 132/92 in lbs | 25/20 in lbs | 2500 psi | 240/240 in lbs | 500 psi | 2500 psi | 40/25 in lbs | 25/40 in lbs | 40/20 in lbs | 80/27 in lbs | 500 psi | 400 psi | 3000 psi | 3000 psi | 3000 psi | 4000 psi | 4100 psi | 3000 psi | 3000 psi | 3000 psi | 4000 psi | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Gap | (In Inches) | 0.030 | N/A | N/A | 0.020 | 0.015 | N/A | 0.015 | 0.010 | N/A | 0.015 | N/A | 0.020 | 0.250 | 0.005 | 0.005 | 0.015 | 0.010 | 0.015 | 0.007 | 0.020 | 0.005 | 0.015 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Similar | Products | 515 | 569 | | 504 | 277 | 592 | 277 | 545 | 592 | 592 | 578.575 | | | 609 | | 640 | 680 | 680 | 620 | | 609 | 635 | 755 | | | | N/A | | | | |
| | | Color | Red | Brown | Purple | Orange | Red | White | Orange | Brown | Brown | Brown | White | White | Black | Green | Green | Green | Green | Green | Green | Silver | Green | Green | Clear | Amber | Amber | Amber | Yellow | Clear | Clear | Green | Silver |
| | | Product | 518 | 542 | 545 | 549 | 554 | 567 | 568 | 569 | 570 | 571 | 572 | 592 | 593 | 601 | 609 | 620 | 635 | 638 | 640 | 660 | 675 | 680 | 706 | 707 | 736 | 738 | 747 | 751 | 755 | 764 | 767 |

Printed in U.S.A.



Section 2001

ENGINE AND RADIATOR REMOVAL AND INSTALLATION

1150G Crawler

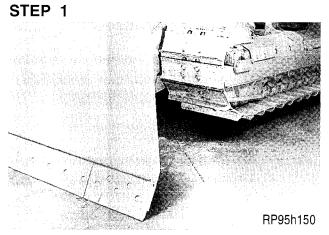
CASE CORPORATION 700 State Street Racine, WI 53404 U.S.A.

CASE CANADA CORPORATION 3350 South Service Road Burlington, ON L7N 3M6 CANADA

TABLE OF CONTENTS

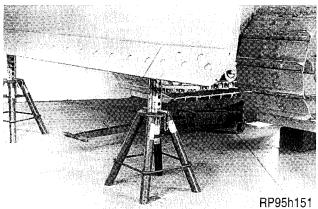
| ENGINE REMOVAL | 3 |
|-----------------------|----|
| ENGINE INSTALLATION | 13 |
| RADIATOR REMOVAL | 23 |
| RADIATOR INSTALLATION | 29 |

NOTE: The Case Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.



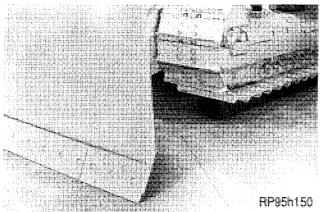
Place the crawler on blocks at least 8 inches high to allow the C-Frame to drop below the bolts mounting the radiator shroud. Alternate Method is to remove the dozer blade and C-Frame as an assembly.

STEP 2



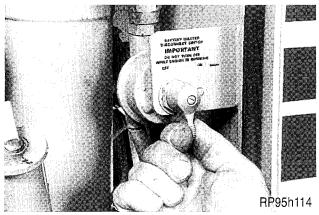
Raise and block the dozer blade up. Use a floor jack to support the undercarriage guards and remove the guards from under the engine and torque converter.

STEP 3



Remove the blocking from under the dozer blade and lower dozer blade to the floor.

STEP 4



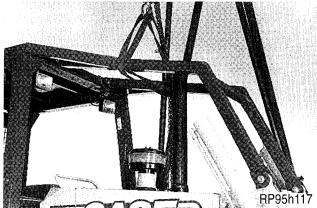
Turn the master disconnect switch for the battery to the OFF position.

STEP 5

Obtain three clean 5 gallon (20 liter) containers. Remove the drain plug in the bottom of the transmission housing and drain the transmission fluid into the clean containers, approximately 14 U.S. gallons (53.0 liters). Store the transmission fluid in a safe and clean area if the fluid is to be reused.

WARNING: When handling lubricants (oil, grease, etc.) and other chemical products, always follow the instructions for their proper use. Use proper containers to collect the fluid. Dispose of fluids and filters in a way that will protect the environment and in accordance with the laws. DO NOT smoke or use an open flame during the servicing procedure. Use eye protection. SM475

STEP 6



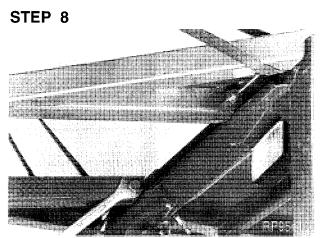
Attach a sling and overhead hoist to the brush guard assembly.

2001-4

0TED 7



Remove the bolts, nuts and washers holding the right and left hand mounting bases for the brush guard.

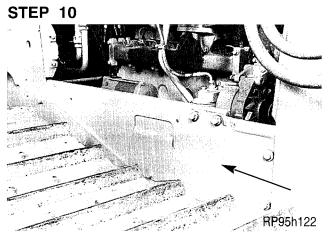


Remove the bolts, nuts and washers fastening the brush guard to the ROPS canopy and remove the brush guard.

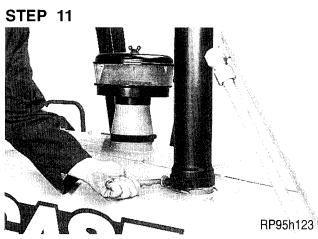
STEP 9



Remove the right and left hand side screens for the engine compartment.

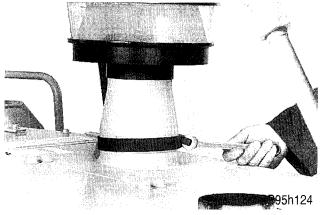


Remove the right and left hand lower side shields for the engine compartment.



Loosen the clamp holding the exhaust pipe and remove the exhaust pipe.

STEP 12



Loosen the clamp holding the inlet stack and precleaner for the air intake and remove the inlet stack.

Issued 3-96

Thanks for your reading.

Please click here to download complete manual instantly.

And can also choose other manuals.

Feel free --->write to me with any questions. Our service email: manuals007@hotmail.com