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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

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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.				

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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.

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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

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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.

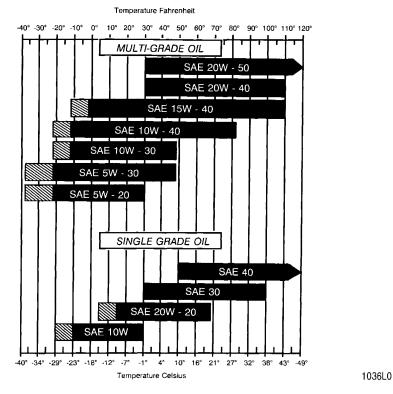


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See the chart below for recommended viscosity at ambient air temperature ranges.

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.

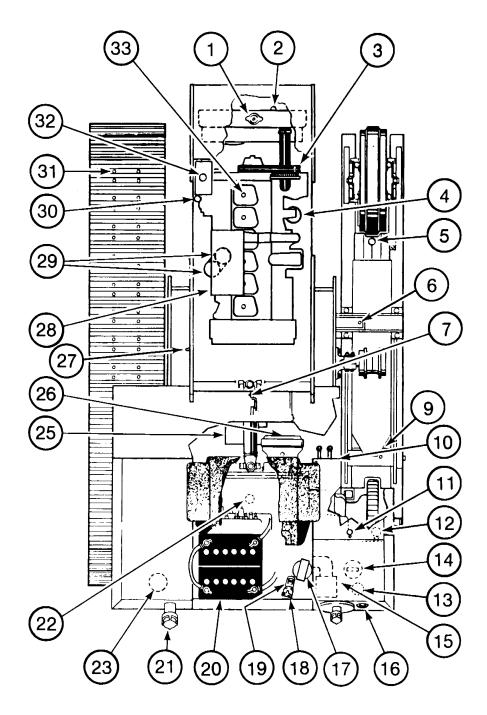
MAINTENANCE SCHEDULE

	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



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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.

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		 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

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		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

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Section 2001

ENGINE AND RADIATOR REMOVAL AND INSTALLATION

1150G Crawler

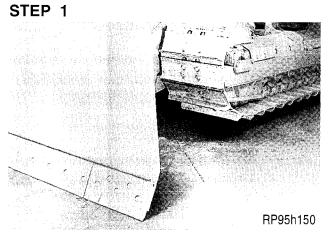
CASE CORPORATION 700 State Street Racine, WI 53404 U.S.A.

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

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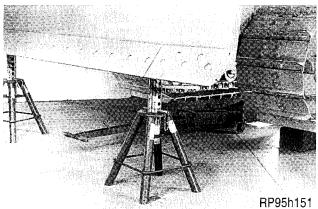
ENGINE REMOVAL	3
ENGINE INSTALLATION	13
RADIATOR REMOVAL	23
RADIATOR INSTALLATION	29

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.



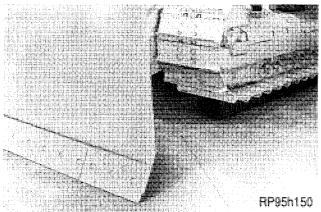
Place the crawler on blocks at least 8 inches high to allow the C-Frame to drop below the bolts mounting the radiator shroud. Alternate Method is to remove the dozer blade and C-Frame as an assembly.

STEP 2



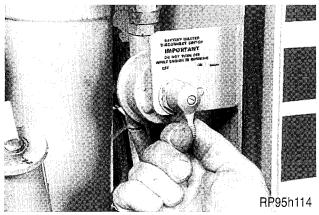
Raise and block the dozer blade up. Use a floor jack to support the undercarriage guards and remove the guards from under the engine and torque converter.

STEP 3



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

STEP 4



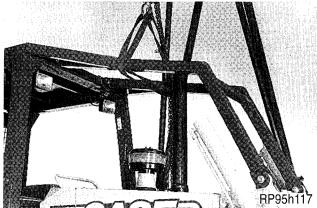
Turn the master disconnect switch for the battery to the OFF position.

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



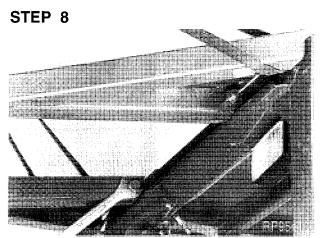
Attach a sling and overhead hoist to the brush guard assembly.

2001-4

0TED 7



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

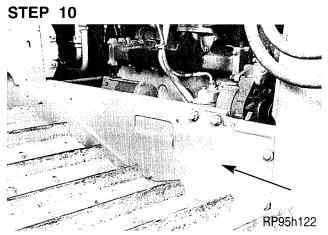


Remove the bolts, nuts and washers fastening the brush guard to the ROPS canopy and remove the brush guard.

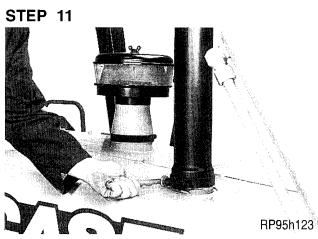
STEP 9



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

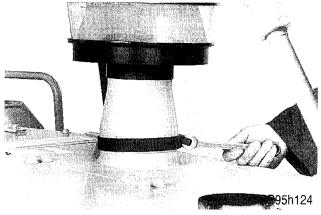


Remove the right and left hand lower side shields for the engine compartment.



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

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