MX150 and MX170 Tractors Service Manual Don 7-87886

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NOTE: Information contained in this Manual may cover features that are not available in all markets worldwide.

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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Don 7-71426 Issued 11-00

LOCTITE PRODUCT CHART

		Description	Form a Gasket (works with oil, fuel or grease) Pliable	Weatherstrin Adhesive		Parts Cleaner Fluid	Wicking Threadlocker	Low Strength Threadlocker	Low Strength Threadlocker (Small Screws)	Low Strength Threadlocker	Medium Strength Threadlocker	High Strength Threadlocker	High Strength Threadlocker	High Strength Threadlocker	High Temperature, High Strength	High Strength Threadlocker	High Strength Threadlocker	Wicking Threadlocker	Instant Adhesive	Surface Insensitive Adhesive	Gel Instant Adhesive	Instant Adhesive	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	General Purpose Instant Adhesive	Metal Bonding Adhesive	Rigid Gasket Eliminator	Flange Sealant	High Temperature, GAsket Eliminator	Gasket Eliminator 515
		Primer	N/A	N/A	V / / V	N/A	747	747	764	747	764	747	747	764	764	747	764	764	Ν	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	None	764	764	764
Fixture/Full Cure	(Steel/Steel) IIMe		24 hr	Fact	1 201	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
Working	l emperature	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
5	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
Ċ	Gap	(In Inches)					0.003	900'0	0.005	0.010	0.005	0.005	0.007	700.0	0.007	0.010	0.010	0.003	900'0	0.004	0.008	900'0	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
		Products					290	222		222		271	271	262	620	277			495		454		454	454		454						515			
		Color	Dark Brown	Vellow		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
		Product	8#	SO.	3	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 * Products 404-496 (except for #445) are all instant adhesives (super glues) they differ mostly in viscosity

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LOCTITE PRODUCT CHART

	er Description		Hydraulic Sealant	Low Strength Pneumatic/Hydraulic Sealant	Instant Seal Plastic Gasket	Refrigerant Sealant	Pipe Sealant for Stainless Steel		Hydraulic Sealant	Steam Sealant	Pipe Sealant	F	Pipe Sealant with Teflon		Current PIN #609	General Purpose Retaining Compound	High Temperature Retaining	High Strength Retaining Compound		High Temperature Retaining Compound	Quick Metal	_	High Strength Retaining Compound	_	Activaltor for Structural Adhesives	Primer NF	Depend Activator		Activator for Structural Adhesives	_	Primer N	
	Primer	764	747	747	747	764	764	764	764	764	764	None	736	NA	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	NA
Fixture/Full Cure	(Steel/Steel) IIme	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	l emperature 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	NA	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	265	578.575			609		640	089	680	620		609	989	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	292	568	569	220	571	572	592	593	601	609	620	635	638	640	099	675	089	90/	707	736	738	747	751	755	764	292

Section 1000

STANDARD TORQUE SPECIFICATIONS

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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									
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									
€ ★ €									
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	NOTE: Use thick nuts with Grade 8 bolts.								

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

Tube OD Hose ID	Thread Size	Pound- Inches	Newton metres						
St	raight Threa	ads with O-ring							
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 Hose ID	Thread Size	Pound- Inches	Newton 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						

Split	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							
Size	Pound- Feet	Newton metres							
1/2-13	55 to 65	74 to 88							
5/8-11	140 to 150	190 to 203							

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

Nom. SAE Dash		Thread	Pound-	Newton	Thread	Pound-	Newton	
Size	Tube OD	Size	Inches	metres	Size	Inches	metres	
						O-ring Boss End		
O-ring Face Seal End					Fitting or Lock Nut			
-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.

Click on the image link below for the full version of the service manual



Section 1001

SAFETY, GENERAL INFORMATION / MAINTENANCE SCHEDULE

CASE CORPORATION
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CASE CANADA CORPORATION
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SAFETY



THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

To prevent injury always follow the Warning, Caution and Danger notes in this section and throughout the manual.

Put the warning tag shown below on the key for the key switch when servicing or repairing the machine. One warning tag is supplied with each machine. Additional tags are available from your service parts supplier.

Before servicing a machine, park the machine on hard level ground. Turn off the engine, apply the parking brake and remove the key from the key switch. Put blocks in front of and behind either the front or rear wheels.

WARNING: Before starting engine study Operators Manual safety messages. Read all safety signs on machine. Clear the area of other persons. Learn and practice safe use of controls before operating. It is your responsibility to understand and follow manufacturers instructions on machine operation, service, and to observe pertinent laws and regulations. Operator and Service Manuals may be obtained from your equipment dealer.



WARNING: If you wear clothing that is too loose or do not use the correct safety equipment for your job, you can be injured. Always wear clothing that will not catch on objects. Extra safety equipment that can be required includes hard hat, safety shoes, ear protection, eye or face protection, heavy gloves and reflector clothing.

M492



WARNING: When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution.

M493

201L95



WARNING: Read the operators manual to familiarize yourself with the correct control functions.

M489



WARNING: Operate the machine and equipment controls from the seat position only. Any other method could result in serious injury.

M490



WARNING: This is one man machine, no riders allowed.

M491



WARNING: When doing checks and tests on the equipment hydraulics, follow the procedures as they are written. DO NOT change the procedure.

M494



WARNING: When putting the hydraulic cylinders on this machine through the necessary cycles to check operation or to remove air from a circuit, make sure all people are out of the way.

M495

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WARNING: Always wear heat protective gloves to prevent burning your hands when handling heated parts.

SM121A



WARNING: Lower all attachments to the ground or use stands to safely support the attachments before you do any maintenance or service.

M496

WARNING: Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury. To Prevent Personal Injury:



Relieve all pressure, before disconnecting fluid lines. Before applying pressure, make sure all connections are tight and components are in good condition.

Never use your hand to check for suspected leaks under pressure.

Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately.

SM171A



WARNING: When removing hardened pins such as a pivot pin, or a hardened shaft, use a soft head (brass or bronze) hammer or use a driver made from brass or bronze and a steel head hammer.

M497



WARNING: When using a hammer to remove and install pivot pins or separate parts using compressed air or using a grinder, wear eye protection that completely encloses the eyes (approved goggles or other approved eye protectors).

M498



WARNING: Use suitable floor (service) jacks or chain hoist to raise wheels or tracks off the floor. Always block machine in placed with suitable safety stands.

M499



WARNING: When servicing or repairing the machine. Keep the shop floor and operators compartment and steps free of oil, water, grease, tools, etc. Use an oil absorbing material and or shop cloths as required. Use safe practices at all times.



WARNING: Some components of this machine are very heavy. Use suitable lifting equipment or additional help as instructed in the Service Manual.

M501



WARNING: Engine exhaust fumes can cause death. If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust pipe extension. Open the door and get outside air into the area.



WARNING: When the battery electrolyte is frozen, the battery can explode if (1), you try to charge the battery, or (2), you try to jump start and run the engine. To prevent the battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured.

M503



WARNING: Batteries contain acid and explosive gas. Explosions can result from sparks, flames or wrong cable connections. To connect the jumper cables correctly to the battery of this machine see the Operators Manual. Failure to follow these instructions can cause serious injury or death.

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GENERAL INFORMATION

Cleaning

Clean all metal parts except bearings, in mineral spirits or by steam cleaning. Do not use caustic soda for steam cleaning. After cleaning, dry and put oil on all parts. Clean oil passages with compressed air.

Inspection

Check all parts when the parts are disassembled. Replace all parts that have excessive wear or are damaged. Small scoring or grooves can be removed with a hone or crocus cloth. Complete visual inspection for indications of wear, pitting and the replacement of parts necessary will prevent early failures.

Bearings

Clean bearings with a good clean solvent and permit to air dry. **DO NOT DRY BEARINGS WITH COMPRESSED AIR.** Check bearings for smooth easy action. If the bearing has a loose fit or rough action, the bearing must be replaced.

Needle Bearings

Before you press needle bearings into a bore, always remove any metal protrusions in the bore or the edge of the bore. Before you press bearings into position, put petroleum jelly on the inside and outside diameter of the bearing.

Gears

Check all gears for excessive wear or damage. Replace gears as necessary.

Oil Seals, O-rings and Gaskets

Always install new oil seals, O-rings and gaskets. Put petroleum jelly on seals and O-rings.

Shafts

Check all shafts for excessive wear or damage. Check the bearing and oil seal surfaces on the shafts for excessive wear or damage. Replace shafts as necessary.

Service Parts

Always install genuine Case service parts. When ordering refer to the Parts Catalog for the correct part number of the genuine Case replacement items. Failures due to the use of other than genuine Case replacement parts are not covered by warranty.

Lubrication

Use only the oils and lubrication specified in the Operators or Service Manual. Failures due to the use of non specified oils and lubricants are not covered by warranty.

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