

**SERVICE MANUAL**  
**SKID STEERS**  
85XT  
90XT  
95XT

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7-52254

1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

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# 85XT/90XT/95XT Skid Steers

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**NOTE:** Case, LLC. 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 1001

## STANDARD TORQUE SPECIFICATIONS

85XT - 90XT - 95XT

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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	Newton metres	Pound-Inches
1/4 inch	10 to 12	91 to 103
5/16 inch	21 to 24	188 to 212
3/8 inch	38 to 43	336 to 378
		Pound-Feet
7/16 inch	61 to 69	45 to 51
1/2 inch	94 to 104	68 to 76
9/16 inch	132 to 149	98 to 110
5/8 inch	183 to 210	138 to 155
3/4 inch	325 to 370	242 to 270
7/8 inch	530 to 595	390 to 435
1.0 inch	790 to 890	585 to 655
1-1/8 inch	980 to 1100	725 to 805
1-1/4 inch	1385 to 1555	1020 to 1145
1-3/8 inch	1810 to 2030	1335 to 1495
1-1/2 inch	2400 to 2700	1770 to 1990


Grade 8 Bolts, Nuts, and Studs		
		
Size	Newton metres	Pound-Inches
1/4 inch	15 to 16	130 to 145
5/16 inch	30 to 34	268 to 301
3/8 inch	54 to 60	474 to 534
		Pound-Feet
7/16 inch	86 to 97	63 to 71
1/2 inch	132 to 149	96 to 110
9/16 inch	191 to 213	140 to 155
5/8 inch	260 to 293	190 to 215
3/4 inch	480 to 515	340 to 380
7/8 inch	745 to 835	550 to 615
1.0 inch	1120 to 1280	825 to 925
1-1/8 inch	1585 to 1785	1170 to 1315
1-1/4 inch	2215 to 2235	1650 to 1855
1-3/8 inch	2930 to 3295	2160 to 2430
1-1/2 inch	3895 to 4375	2870 to 3225


**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 both coarse and fine 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. Use of a click type torque wrench, or better is required.

<b>Grade 8.8 Bolts, Nuts, and Studs</b>		
		
<b>Size</b>	<b>Newton metres</b>	<b>Pound-Inches</b>
M4	3 to 4	31 to 35
M5	5 to 6	49 to 55
M6	10 to 11	84 to 94
M8	23 to 26	229 to 277
M10	46 to 51	408 to 460
		<b>Pound-Feet</b>
M12	80 to 90	59 to 66
M14	128 to 145	94 to 106
M16	200 to 220	149 to 161
M20	400 to 450	293 to 330
M24	690 to 780	510 to 575
M30	1375 to 1545	1010 to 1140
M36	2400 to 2700	1770 to 1990

<b>Grade 10.9 Bolts, Nuts, and Studs</b>		
		
<b>Size</b>	<b>Newton metres</b>	<b>Pound-Inches</b>
M4	5 to 6	44 to 49
M5	8 to 9	71 to 79
M6	14 to 15	120 to 136
M8	33 to 37	293 to 329
		<b>Pound-Feet</b>
M10	65 to 74	48 to 54
M12	114 to 128	85 to 94
M14	183 to 205	136 to 153
M16	285 to 320	208 to 235
M20	555 to 620	406 to 460
M24	955 to 1075	705 to 790
M30	1900 to 2140	1400 to 1580
M36	3315 to 3730	2445 to 2750

## 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

<b>37 Degree Flare Fitting</b>				
Nom. SAE Dash Size	Tube OD/Hose ID	Thread Size	Newton metres	Pound-Inches
-2		5/16 - 24	8 to 9	72 to 84
-3		3/8 - 24	11 to 12	96 to 108
-4	6.4 mm (1/4 inch)	7/16 - 20	14 to 16	120 to 144
-5	7.9 mm (5/16 inch)	1/2 - 20	18 to 21	156 to 192
-6	9.5 mm (3/8 inch)	9/16 - 18	27 to 33	240 to 300
-8	12.7 mm (1/2 inch)	3/4 - 16	46 to 56	408 to 504
-10	15.9 mm (5/8 inch)	7/8 - 14	77 to 85	684 to 756
				<b>Pound-Feet</b>
-12	19.0 mm (3/4 inch)	1-1/16 - 12	107 to 119	79 to 88
-14	22.2 mm (7/8 inch)	1-3/16 - 12	127 to 140	94 to 103
-16	25.4 mm (1.0 inch)	1-5/16 - 12	131 to 156	97 to 117
-20	31.8 mm (1-1/4 inch)	1-5/8 - 12	197 to 223	145 to 165
-24	38.1 mm (1-1/2 inch)	1-7/8 - 12	312 to 338	230 to 250

<b>Straight Threads with O-ring</b>				
Nom. SAE Dash Size	Tube OD/Hose ID	Thread Size	Newton metres	Pound-Inches
-2		5/16 - 24	8 to 9	72 to 84
-3		3/8 - 24	11 to 12	96 to 108
-4	6.4 mm (1/4 inch)	7/16-20	20 to 25	180 to 228
-5	7.9 mm (5/16 inch)	1/2-20	27 to 33	240 to 300
-6	9.5 mm (3/8 inch)	9/16-18	43 to 54	384 to 480
-8	12.7 mm (1/2 inch)	3/4-16	73 to 90	648 to 804
				<b>Pound-Feet</b>
-10	15.9 mm (5/8 inch)	7/8-14	100 to 124	74 to 92
-12	19.0 mm (3/4 inch)	1-1/16-12	138 to 173	102 to 128
-14	22.2 mm (7/8 inch)	1-3/16-12	173 to 216	128 to 160
-16	25.4 mm (1.0 inch)	1-5/16-12	203 to 253	150 to 187
-20	31.8 mm (1-1/4 inch)	1-5/8-12	308 to 357	227 to 264
-24	38.1 mm (1-1/2 inch)	1-7/8-12	492 to 542	363 to 400

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

<b>O-Ring Face Seal End</b>					<b>O-Ring Boss End Fitting or Lock Nut</b>		
<b>Nom. SAE Dash Size</b>	<b>Tube OD</b>	<b>Thread Size</b>	<b>Newton metres</b>	<b>Pound-Inches</b>	<b>Thread Size</b>	<b>Newton metres</b>	<b>Pound-Inches</b>
-4	6.4 mm (1/4 inch)	9/16-18	23 to 26	204 to 228			
-6	9.5 mm (3/8 inch)	11/16-16	34 to 40	300 to 348	9/16-18	48 to 54	432 to 480
-8	12.7 mm (1/2 inch)	13/16-16	52 to 57	456 to 504	3/4-16	70 to 78	612 to 684
							<b>Pound-Feet</b>
-10	15.9 mm (5/8 inch)	1-14	81 to 90	720 to 792	7/8-14	102 to 114	75 to 84
				<b>Pound-Feet</b>			
-12	19.0 mm (3/4 inch)	1-3/16-12	117 to 128	86 to 94	1-1/16-12	142 to 160	105 to 117
-16	25.4 mm (1.0 inch)	1-7/16-12	152 to 174	112 to 128	1-5/16-12	237 to 254	175 to 187
-20	31.8 mm (1-1/4 inch)	1-11/16-12	179 to 201	132 to 148			
-24	38.1 mm (1-1/2 inch)	2-12	213 to 235	157 to 173			

<b>Pipe fittings</b>		
<b>Nom. SAE Dash Size</b>	<b>Thread Size</b>	<b>TFFT (Turns For Finger Tight)</b>
-2	1/8 - 27	2.0 - 3.0
-3	1/8 - 27	2.0 - 3.0
-4	1/8 - 27	2.0 - 3.0
-5	1/8 - 27	2.0 - 3.0
-6	1/4 - 18	1.5 - 3.0
-8	3/8 - 18	2.0 - 3.0
-10	1/2 - 14	2.0 - 3.0
-12	3/4 - 14	2.0 - 3.0
-14	3/4 - 14	2.0 - 3.0
-16	1 - 11 1/2	1.5 - 2.5
-20	1 1/4 - 11 1/2	1.5 - 2.5
-24	1 1/2 - 11 1/2	1.5 - 2.5
-32	2 - 11 1/2	1.5 - 2.5

**NOTE:** Apply sealant/lubricant to male pipe threads. The first two threads should be left uncovered to avoid system contamination. Screw pipe fitting into female pipe port to the finger tight position. Wrench tighten fitting to the appropriate turns from finger tight (TFFT) shown in table above, making sure the tube end of an elbow or tee fitting is aligned to receive incoming tube or hose fitting.

# Section 1002

1002

## FLUIDS AND LUBRICANTS

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## CAPACITIES AND LUBRICANTS

### FUEL TANK

Capacity (95XT) .....	76.4 litres (20.2 U.S. gallons)
Capacity (90XT) .....	78.3 litres (20.7 U.S. gallons)
Capacity (85XT) .....	65.5 litres (17.3 U.S. gallons)
Specifications .....	See diesel fuel specifications on page 5

### COOLING SYSTEM

Capacity .....	16.5 litres (17.5 quarts)
Recovery bottle capacity .....	2 litres (2.1 quarts)
Specifications .....	50% water and 50% ethylene glycol .....(w/ a supplemental coolant additive for cavitation protection.)

### HYDRAULIC SYSTEM

Capacity - System (95XT) .....	66.2 litres (17.5 gallons)
Capacity - System (90XT) .....	64.4 litres (17.0 gallons)
Capacity - System (85XT) .....	62.4 litres (16.5 gallons)
Specifications (95XT and 90XT only) .....	Case AKCELA Hy Tran Ultra
Specifications (85XT only) .....	Case AKCELA No. 1 Engine Oil SAE 10W-30 with HTO additive

### CHAIN COMPARTMENTS

Capacity - Each Side .....	7.6 litres (8.0 quarts)
Specifications (95XT and 90XT only) .....	Case AKCELA Hy Tran Plus
Specifications (85XT only) .....	Case AKCELA No. 1 Engine Oil, SAE 10W30

### BATTERY

Quantity .....	As required
Specifications .....	Distilled water

### GREASE FITTINGS

Quantity .....	As required
Attachments (If equipped) .....	Quantity as required
Specifications .....	Case AKCELA molydisulfide grease

### ENGINE CRANKCASE OIL

Capacity - with filter change .....	10.4 litres (11.0 quarts)
Capacity - without filter change .....	9.5 litres (10.0 quarts)
Specifications .....	Case AKCELA No. 1 Engine Oil SAE 15W-40 (API service CH-4) ..... (See Oil Viscosity/Temperature Ranges Chart on page 4)

## ENVIRONMENT

Before you service this machine and dispose of oil, fluids and lubricants, always remember the environment. Do not put oil or fluids into the ground or into containers that can leak. Check with your local environmental, recycling center or your Case dealer for correct disposal information.



# ENGINE LUBRICATION

## Engine Oil Selection

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



RH99K130

Case AKCELA Multi-Viscosity No. 1 Engine Oil meets API engine oil service category CH-4.

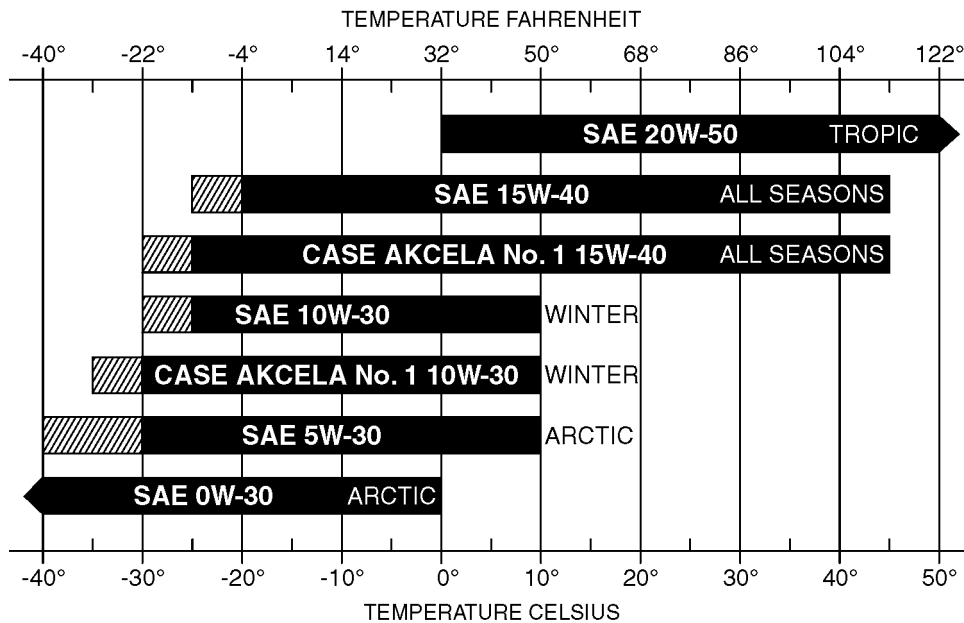
See the chart below for recommended viscosity at ambient temperature ranges.

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



BD03E011

## Oil Viscosity/Temperature Ranges



Indicates the use of an Engine Oil Heater or a Jacket Water Heater is required.

BC02N250

## DIESEL FUEL SYSTEM

Use No. 2 diesel fuel in the engine of this machine. The use of other fuels can cause the loss of engine power and high fuel consumption.

In very cold temperatures, a mixture of No. 1 and No. 2 diesel fuels is temporarily permitted. See the following:

**NOTE:** *NOTE: See your fuel dealer for winter fuel requirements in your area. If the temperature of the fuel lowers below the cloud point (wax appearance point), wax crystals in the fuel will restrict the fuel filter and cause the engine to loose power or not start.*

The diesel fuel used in this machine must meet the specifications below, "Specifications for Acceptable No. 2 Diesel Fuel" or Specification D975-81 of the American Society for Testing and Materials.

### Fuel Storage

If you keep fuel in storage for a period of time, you can get foreign material or water in the fuel storage tank. Many engine problems are caused by water in the fuel.

Keep the fuel storage tank outside and keep the fuel as cool as possible. Remove water from the storage container at regular periods of time.

Fill the fuel tank at the end of the daily operating period to prevent condensation in the fuel tank.

### Specifications for Acceptable No. 2 Diesel Fuel

API Gravity, Minimum .....	34
Flash Point, Minimum .....	60×°C (140×°F)
Cloud Point (wax appearance point), Maximum .....	-20×°C (-5×°F)
Pour Point, Maximum .....	-26×°C (-15×°F)
Distillation Temperature, 90% Point .....	282 to 338×°C (540 to 640×°F)
Viscosity, at 38×C (100×F)	
Centistokes .....	2.0 to 4.3
Saybolt Seconds Universal .....	32 to 40
Cetane Number, Minimum .....	43 (45 to 55 for winter or high altitudes)
Water and Sediment, by Volume, Maximum .....	0.5 of 1%
Sulphur, by Weight, Maximum .....	0.5 of 1%
Copper Strip Corrosion, Maximum .....	No. 2
Ash, by Weight, Maximum .....	0.1 of 1%

**NOTES**

# Section 1003

1003

## METRIC CONVERSION CHART

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## CONVERSION FACTORS Metric to U.S.

	<u>MULTIPLY</u>	<u>BY</u>	<u>TO OBTAIN</u>
<b>Area:</b>	sq. meter hectare	10.763 91 2.471 05	square foot acre
<b>Force:</b>	newton newton	3.596 942 0.224 809	ounce force pound force
<b>Length:</b>	millimeter meter kilometer	0.039 370 3.280 840 0.621 371	inch foot mile
<b>Mass:</b>	kilogram	2.204 622	pound
<b>Mass/Area:</b>	kilogram/hectare	0.000 466	ton/acre
<b>Mass/Energy:</b>	gr/kW/hr.	0.001 644	lbs/hp/hr.
<b>Mass/Volume:</b>	kg/cubic meter	1.685 555	lb/cubic yd.
<b>Power:</b>	kilowatt	1.341 02	horsepower
<b>Pressure:</b>	kilopascal bar	0.145 038 14.50385	lb/sq. inch lb/sq. inch
<b>Temperature:</b>	degree C	1.8 x C +32	degree F
<b>Torque:</b>	newton meter newton meter	8.850 748 0.737 562	lb/inch lb/foot
<b>Velocity:</b>	kilometer/hr.	0.621 371	miles/hr.
<b>Volume:</b>	cubic centimeter cubic meter cubic meter milliliter litre litre litre litre	0.061 024 35.314 66 1.307 950 0.033 814 1.056 814 0.879 877 0.264 172 0.219 969	cubic inch cubic foot cubic yd. ounce (US fluid) quart (US liquid) quart (Imperial) gallon (US liquid) gallon (Imperial)
<b>Volume/Time:</b>	litre/min. litre/min.	0.264 172 0.219 969	gallon/min. (US liquid) gallon/min. (Imperial)

## U.S. to Metric

	<u>MULTIPLY</u>	<u>BY</u>	<u>TO OBTAIN</u>
<b>Area:</b>	square foot acre	0.092 903 0.404 686	square meter hectare
<b>Force:</b>	ounce force pound force	0.278 014 4.448 222	newton newton
<b>Length:</b>	inch foot mile	25.4 * 0.304 8 * 1.609 344 *	millimeter meter kilometer
<b>Mass:</b>	pound ounce	0.453 592 28.35	kilogram gram
<b>Mass/Area:</b>	ton/acre	2241 702	kilogram/hectare
<b>Mass/Energy:</b>	lb/hp/hr	608.277 4	gr/kW/hr
<b>Mass/Volume:</b>	lb/cubic yd.	0.593 276	kg/cubic meter
<b>Power:</b>	horsepower	0.745 700	kilowatt
<b>Pressure:</b>	lbs/sq. in. lbs/sq. in. lbs/sq. in.	6.894 757 0.069 0.070 303	kilopascal bar kg/sq. cm
<b>Temperature:</b>	degree F	1.8 F - 32	degree C
<b>Torque:</b>	pound/inch pound/foot	0.112 985 1.355 818	newton meter newton meter
<b>Velocity:</b>	miles/hr.	1.609 344 *	kilometer/hr.
<b>Volume:</b>	cubic inch cubic foot cubic yard ounce (US fluid) quart (US liquid) quart (Imperial) gallon (US) gallons (Imperial)	16.387 06 0.028 317 0.764.555 29.573 53 0.946 353 1.136 523 3.785 412 4.546 092	cubic centimeter cubic meter cubic meter milliliter litre litre litre litre
<b>Volume/Time:</b>	gallon/min.	3.785 412	litre/min.

\* = exact

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