

7200 Pro and 8900 Series Tractor

Service Manual No. 7-67882

Table of Contents

Description	Section No.	Form No.
General	Tab 1	
General Information	1001	7-85710
Fuel Systems	Tab 3	
Fuel System Specifications	3001	7-87430
Fuel Tank	3004	7-87440
Electrical	Tab 4	
Wiring Schematics		7-66740
Troubleshooting	4001	7-66720
Alternator	4004	7-86300
Neutral Start Switch	4005	7-85531
Battery Servicing and Testing	4235	7-67360
Steering	Tab 5	
Steering Hand Pump and Steering Column	5001	7-85410
Steering Cylinder-2WD and MFD Tractors	5002	7-85291
Steering Axle and Lines-2WD	5003	8-91841
Power Train	Tab 6	
Tractor Split for Speed Transmission Service	6001	7-67491
Tractor Split for Pinion Shaft or Range Transmission Service	6002	7-67501
MFD Front Axle Removal and Installation	6003	7-68701
Transmission Valve	6004	7-67510
Speed Transmission	6005	7-67521
Range Transmission	6006	7-67531
Hydraulic Pump Drive	6007	7-68711
Rear Frame	6008	7-85671
Rear Axle and Planetaries	6009	7-67541
Single and Dual Shaft PTO	6010	7-67551
MFD Clutch Removal Without Tractor Split	6011	7-67560
MFD Differential	6012	8-91962
MFD Axle and Planetaries	6013	7-67891
Brakes	Tab 7	
Brake Valve	7001	7-85551
Hydraulic Trailer Brake Valve	7002	
Brake Cylinders	7003	7-67571
Pneumatic Trailer Brake Valve	7004	

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

Reprinted

© 1998 Case Corporation
Printed in U.S.A.
April, 1998

Rac 7-67882

Description	Section No.	Form No.
Hydraulics	Tab 8	
Hydraulic Schematics		7-66730
Hydraulic Troubleshooting	8001	7-66710
Manual Shuttle Shift Transmission Testing and Troubleshooting	8002	7-85921
Electrical PTO Valve	8003	7-65430
Priority and Remote Valves	8004	7-87450
Hydraulic Filters	8005	7-60782
MFD solenoid Valve	8006	7-87720
Charge/Lube Dual Gear Pump	8007	7-87460
Hydraulic Piston Pump	8008	7-87470
Electronic Hitch Calibration and Error Codes	8009	7-67870
Tractor Hitch	8010	7-85741
Hitch Valve	8011	7-68761
Hydraulic Couplers	8013	8-95332
Chassis	Tab 9	
Air Conditioning Troubleshooting and System Checks	9001	7-67231
Air Conditioner System Service	9002	7-67241
Air Conditioning System and Compressor	9003	7-67251
Air Conditioning Components	9004	7-67260
Cab Blower	9005	7-87480
Tractor Seat	9006	7-87730
Hood, Grill, Side Panels, Radiator and Support	9007	7-87740
8900 Decal Locations	9008	7-87750
Cab Removal	9009	7-87760
Pedal and Lever Adjustment	9010	7-87770

Section 1001

GENERAL INFORMATION 7200 Pro and 8900 Series Tractors

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

CASE CANADA CORPORATION
450 Sherman Avenue
Hamilton, ON L8N 4C4 CANADA

Rac 7-85710

© 1998 Case Corporation
Printed in U.S.A.
March, 1998

CONVERSION FACTORS








U.S. Customary to SI (Metric) Units

SI (Metric) Units to U.S. Customary

	Multiply	By	To Obtain:	Multiply By	To Obtain
Area:	square foot (ft ²) acre	0.092 903 0.404 686	square meter (m ²) hectar (ha)	10.763 91 2.471 05	square foot (ft ²) acre
Force:	ounce force (ozf) pound force (lbf)	0.278 014 4.448 222	newton (N) newton (N)	3.598 942 0.224 809	ounce force (ozf) pound force (lbf)
Length:	inch (in) foot (ft) mile	25.4 0.304 8 1.609 344	millimetre (mm) meter (m) kilometer (km)	0.039 370 3.280 804 0.621 371	inch (in) foot (ft) mile
Mass:	pound (lb)	0.453 592	kilogram (kg)	2.204 622	pound (lb)
Mass/Area:	ton/acre	2241.702	kilogram per hectare (kg/ha)	0.000 446	ton/acre
Mass/Energy: (Fuel Consumption)	pound per brake horsepower- hour (lb/bhp-h)	608.277 4	gram per kilowatt hour (g/kwh)	0.001 644	pound per brake horsepower- hour (lb/bhp-h)
Mass/Volume: (Density)	pound per cubic yard (lb/yd ³) 0.593276	0.593 276	kilogram per cubic meter (kg/m ³)	1.685 555	pound per cubic yard (lb/yd ³)
Power	horsepower - U.S. customary (hp - U.S. customary)	0.745 700	kilowatt (kw)	1.341 02	horsepower - U.S. customary (hp - U.S. customary)
Pressure	pound per square inch (psi)	6.894 757	kilopascal (kPa)	0.145 038	pound per square inch (psi)
Temperature:	degrees Fahrenheit (°F)	TC=5/9 (TF-32)	degree celsius (°C)	TF=1.8 TC+32	degree Fahrenheit (°F)
Torque:	pound inch (lb in) pound foot (lb ft)	0.112 985 1.355 818	newton meter (Nm) newton meter (Nm)	8.850 748 0.737 562	pound inch (lb in) pound foot (lb ft)
Velocity (Speed):	miles per hour (mph)	1.609 344	kilometer per hour (km/h)	0.621 371	miles per hour (mph)
Volume:	cubic inch (in ³) cubic foot (ft ³) cubic yard (yd ³) ounce-U.S. fluid (oz) quart-U.S. liquid (qt) quart-Imperial (qt) gallon-U.S. liquid (gal) gallon-Imperial (gal)	16.387 06 0.028 317 0.764 555 29.573 53 .0946 353 1.136 523 3.785 412 4.546 092	cubic centimeter (cm ³) cubic meter (m ³) cubic meter (m ³) millimeter (ml) liter (l) liter (l) liter (l) liter (l)	0.621 024 35.314 66 1.307 950 0.033 814 1.056 688 0.879 877 0.264 172 0.219 969	cubic inch (in ³) cubic foot (ft ³) cubic yard (yd ³) ounce-U.S. fluid (oz) quart-U.S. liquid (qt) quart-Imperial (qt) gallon-U.S. liquid (gal) gallon-Imperial (gal)
Volume/Area:	bushel (U.S.) per acre	0.087 078	cubic meter per hectare (m ³ /ha)	11 484 000	bushel (U.S.) per acre
Volume/Time: (Flow)	gallon per minute (U.S.) (gpm U.S.) gallon per minute (Imperial)(gpm Imp.)	3.785 412 4.546 092	liter per minute (l/m) liter per minute (l/m)	0.264 172 0.219 969	gallon per minute (U.S.) (gpm U.S.) gallon per minute (Imperial) (gpm Imp.)
Horsepower:	U.S. customary hp net engine hp net engine hp	1.014 0.815* 0.70*	metric horsepower P.T.O. observed hp max drawbar hp	0.986.3	U.S. customary hp

SAE FASTENER TORQUE CHART

NOTE: Use these torques, unless special torques are specified. Values are for UNC and UNF thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, moly-disulphide or other extreme pressure lubricant is used.




SAE Grade No.	2				5				8*			
Bolt head identification (See Note 1)					  				  			
Bolt Size	LB FT		Nm		LB FT		Nm		LB FT		Nm	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	5	6	7	8	9	11	12	15	12	15	16	20
5/16	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	20	23	27	31	35	42	48	57	45	54	61	73
7/16	30	35	41	47	54	64	73	87	70	84	95	114
1/2	45	52	61	70	80	96	109	130	110	132	149	179
9/16	65	75	88	102	110	132	149	179	160	192	217	260
5/8	95	105	129	142	150	180	203	244	220	264	298	358
3/4	150	185	203	251	270	324	366	439	380	456	515	618
7/8	160	200	217	271	400	480	542	651	600	720	814	976
1	250	300	339	406	580	696	787	944	900	1080	1220	1464
1-1/8					800	880	1085	1193	1280	1440	1736	1953
1-1/4					1120	1240	1519	1681	1820	2000	2468	2712
1-3/8					1460	1680	1980	2278	2380	2720	3227	3688
1-1/2					1940	2200	2631	2983	3160	3560	4285	4827

NOTE 1: Bolt head identification marks as per grade. Manufacturing marks will vary.

*Thick nuts must be used with Grade 8 bolts

METRIC FASTENER (ISO) TORQUE CHART

NOTE: Use these torques, unless special torques are specified. Values are for coarse thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, moly-disulphide or other extreme pressure lubricant is used.

ISO Class No.	8.8				10.9				12.9			
Bolt head identification (See Note 1)												
Bolt Size	Nm		LB FT		Nm		LB FT		Nm		LB FT	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M4	3	4	2	3	4	5	3	4	<p>Because of the low ductility of these fasteners, the torque range is to be determined individually for each application. As a general rule, the torque ranges specified for grade 10.9 fasteners can be used satisfactorily on 12.9 fasteners.</p> <p>*M14 is not a preferred size</p>			
M5	6.5	8	5	6	9.5	11	7	8				
M6	10.5	12	8	9	15	17.5	11	13				
M8	26	31	19	23	37	43	27	32				
M10	52	61	38	45	73	87	54	64				
M12	90	107	66	79	125	150	93	112				
*M14	144	172	106	127	200	245	149	179				
M16	217	271	160	200	310	380	230	280				
M20	434	515	320	380	610	730	450	540				
M24	675	815	500	600	1050	1275	780	940				
M30	1250	1500	920	1100	2000	2400	1470	1770				
M36	2175	2600	1600	1950	3500	4200	2580	3090				

NOTE: Bolt head identification marks as per grade. Manufacturing marks will vary.

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com