

Information and Instructions

This shop manual contains several sections each covering a specific group of wheel type tractors. The Tab Index on the preceding page can be used to locate the section pertaining to each group of tractors. Each section contains the necessary specifications and the brief but terse procedural data needed by a mechanic when repairing a tractor on which he has had no previous actual experience.

Within each section, the material is arranged in a systematic order beginning with an index which is followed immediately by a Table of Condensed Service Specifications. These specifications include dimensions, fits, clearances and timing instructions. Next in order of arrangement is the procedures paragraphs.

In the procedures paragraphs, the order of presentation starts with the front axle system and steering and proceeding toward the rear axle. The last paragraphs are devoted to the power take-off and power lift systems. Interspersed where needed are additional tabular specifications pertaining to wear limits, torquing, etc.

HOW TO USE THE INDEX

Suppose you want to know the procedure for R&R (remove and reinstall) of the engine camshaft. Your first step is to look in the index under the main heading of ENGINE until you find the entry "Camshaft." Now read to the right where under the column covering the tractor you are repairing, you will find a number which indicates the beginning paragraph pertaining to the camshaft. To locate this wanted paragraph in the manual, turn the pages until the running index appearing on the top outside corner of each page contains the number you are seeking. In this paragraph you will find the information concerning the removal of the camshaft.

SHOP MANUAL OLIVER

S E R I E S

1750	1900A
1800A	1900B
1800B	1900C
1800C	1950
1850	1950-T

Also Covers COCKSHUTT S E R I E S

1750	1900B
1800B	1900C
1800C	1950
1850	1950-T

IDENTIFICATION

Series 1800 and 1900 tractors (series A) begin with serial number 90 525-000 and continue through serial number 124 395-000. 1800 and 1900 series B tractors begin with serial number 124 396-000 and continue through serial number 134 683-000. 1800 and 1900 series C tractors begin with serial number 134 684-000 and continue through serial number 150 420-000. 1850 and 1950 series tractors begin with serial number 150 421-000. 1750 series tractors begin with serial number 180 537-000. 1950-T series tractors begin with serial number 194 080-000.

Tractor serial number plate is located on rear side of instrument panel support. On series A 1800 tractors, engine serial number is stamped on right rear flange of engine. On 1800 series B and C, are 1750 and 1950-T and 1850 non-diesel tractors, engine serial number is stamped along outer edge of timing gear cover mounting flange directly below generator or alternator. On series 1850 diesel tractors, engine serial number is stamped on cylinder block directly below injection pump. On series 1900 and 1950 tractors, engine model and serial numbers are stamped on upper right rear of cylinder block.

BUILT IN THESE VERSIONS

Rowcrop, Wheatland, Ricefield, Industrial and 4-Wheel Drive. Rowcrop tractors are available in either dual wheel tricycle or adjustable front axle versions, while Wheatland, Ricefield, Industrial and 4-Wheel Drive tractors are available with non-adjustable axles only.

I N D E X (By Starting Paragraph)

	Series 1800, 1850	Series 1850 Diesel	Series 1900, 1950	Series 1750, 1950-T		Series 1800, 1850	Series 1850 Diesel	Series 1900, 1950	Series 1750, 1950-T
MODELS	Non-Diesel				MODELS	Non-Diesel			
BELT PULLEY	350	350	350	350	COOLING SYSTEM				
BRAKES	345	345	345	345	Water pump	223	223	...	223
CARBURETOR					Radiator	222	222	251	222
Gasoline	145	...	...	145	Thermostat	225	225	255	225
LP-Gas	158, 172	...	...	...	Fan and Fan Drive .....	...	...	252	...
CLUTCH					CREEPER DRIVE	275	275	275	275
Engine clutch adjustment ...	261	261	261	261	DIESEL SYSTEM				
Engine clutch R&R	262	262	262	262	Energy cells	211	...	...	...
Engine clutch overhaul	264	264	266	264	Fuel supply pump	214	215	...	214
Power take-off clutch	355	355	355	355	Fuel system bleeding	176	180	...	176

INDEX (By Starting Paragraph)

MODELS	Series 1800, 1850	Series 1850 Diesel	Series 1900, 1950	Series 1750, 1950-T	MODELS	Series 1800, 1850	Series 1850 Diesel	Series 1900, 1950	Series 1750, 1950-T
DIESEL SYSTEM (Cont'd)					FRONT SYSTEM (Cont'd)				
Governor adjust	202	205	246	205	Hydraulic front wheel drive..	41A	41A	41A	41A
Nozzles, testing	181	189	...	196A	Pivot pin	1	1	1	1
Nozzles, R&R	182	190	...	196B	Spindle (knuckle)	9	9	9	9
Nozzles, overhaul	188	196	...	196H	Steering gear (manual)	12	12	12	12
Injection pump, R&R	198	204	...	198	Tie rods & toe-in	2	2	2	2
Injector timing .....	...	...	243	...	GOVERNOR				
Injection pump, timing	197	203	...	197	Adjustment, non-diesel	217	...	...	217
Injector rack, adjust .....	...	...	245	...	Adjustment, diesel	202	205	246	...
Trouble shooting	173	173	...	173	Overhaul, non-diesel	221	...	...	221
DIFFERENTIAL					R&R, non-diesel	221	...	...	221
Overhaul	338	388	338	338	HYDRA-POWER				
Remove and reinstall	335	335	335	335	290	290	290	290	290
ELECTRICAL					HYDRAUL SHIFT				
Distributor	229, 231	...	...	231	...	...	...	...	308
Generator	233	234	256, 257	234	LIFT SYSTEM, HYDRAULIC				
Regulator	233	234	256, 257	234	Control levers and linkage, R&R	415	415	415	415
Starting motor	235	236	258	236	Depth-Stop:				
ENGINE					Internal valve	413	413	413	413
Assembly, R&R	95	95	240	95, 95A	External valve	430	430	430	430
Auxiliary drive shaft .....	...	116	...	...	Draft control actuating assy.	420	420	420	420
Cam followers	103	104	...	103	Draft control spring, adjust ..	421	421	421	421
Camshaft	113	114	...	113	Drain and refill	395	395	395	395
Connecting rod and bearings	130	131	...	130	Electrical tests	385	385	385	385
Crankshaft and bearings ...	132	133	...	132	Hydraulic housing	414	414	414	414
Cylinder head	96	97	...	96, 96A	Hydra-Lectric control unit ...	411	411	411	411
Cylinder sleeves	119	126	...	119	Interlock bleed screws	401	401	401	401
Flywheel	138	139	...	138	Lubrication and maintenance	394	394	394	394
Front oil seal	134	136	...	134	Cylinder and piston	418	418	418	418
Idler gears .....	...	115	...	115	Manifold	406	406	406	406
Main bearings	132	133	...	132	Pump	404	404	404	404, 404A
Oil cooler .....	...	144	...	144A	Pressure relief valve	403	403	403	403
Oil pump	140	142	...	140	R&R hydraulic unit	414	414	414	414
Pistons	119	126	...	119	Remote (Hydra-Lectric) cylinders	422	422	422	422
Piston pins	128	129	...	128	Restrictor valves	399	399	399	399
Piston and rod removal	117	118	...	117	Rockshaft	417	417	417	417
Piston rings	119	126	...	119	Servo valve	416	416	416	416
Rear oil seal	135	137	...	135	Trouble shooting	365	365	365	365
Relief valve, oil pressure ...	143	...	...	143	POWER STEERING				
Rocker arms	105	106	...	105, 105A	44	44	44	44	44
Tappets	103	104	...	103	POWER TAKE-OFF				
Timing gear cover	109	110	...	109	Clutch adjustment	355	355	355	355
Timing gears	111	112	...	111	Clutch overhaul	362	362	362	362
Tune-up .....	...	...	241	...	Drive shaft, R&R	356	356	356	356
Valve guides	98	99	...	98	PTO unit, R&R	357	357	357	357
Valve rotators	100	...	...	100	REVERSE-O-TORC				
Valve springs	101	102	...	101	283	283	283	283	283
Valve timing	107	108	...	107	STEERING GEAR, MANUAL ..				
Valves and valve seats	98	99	...	98	12	12	12	12	12
FINAL DRIVE					TRANSFER DRIVE				
Bevel gears	339	339	339	339	35	35	35	35	35
Bull gears	343	343	343	343	TRANSMISSION				
Bull pinions	344	344	344	344	Bevel pinion shaft	323	323	323	323
Differential	335	335	335	335	Countershaft	322	322	322	322
Wheel axle shaft	341	341	341	341	Input shaft (prior 94 271-000)	318	318	318	...
FRONT SYSTEM					Input shaft (94 271-000— 134 683-000)	319	319	319	...
Four-wheel drive	20	20	20	20	Input shaft (135 685-000 & up)	320	230	320	320
Front axle member	1	1	1	1	Reverse idler	331	331	331	331
Front bolster	16	16	16	16	Shifter rails & forks	315	315	315	315
					Top cover	310	310	310	310
					TURBOCHARGER				
					...	...	...	...	216A

INDEX (By Starting Paragraph)

	MODEL 1550 1555	MODEL 1600	MODEL 1650 1655		MODEL 1550 1555	MODEL 1600	MODEL 1650 1655
BELT PULLEY	214	214	214	FINAL DRIVE			
BRAKES	212	212	212	Bevel Gears	207	207	207
CARBURETOR				Bull Gears	209	209	209
LP-Gas	109	96, 109	109	Bull Pinions	208	208	208
Gasoline	89	89	89	Differential	204	204	204
CLUTCH				High Clearance .....	...	211A	211A
Engine Clutch Adjustment	150	150	150	Wheel Axle Shafts	211	211	211
Engine Clutch R&R	151	151	151	FRONT SYSTEM			
Engine Clutch Overhaul	153	153	153	Four-Wheel Drive	27	27	27
Power Take-Off Clutch	217, 224	217	217, 224	Front Axle Member	1	1	1
COOLING SYSTEM				Front Bolster	13	13	13
Radiator	138	138	138	Hydraulic Front Wheel Drive ..	.....	.....	46A
Thermostat	140	140	140	Pivot Pin	1	1	1
Water Pump	139	139	139	Spindle (Knuckle)	5	5	5
CREEPER DRIVE	172	172	172	Steering Gear (Axle)	9	9	9
DIESEL SYSTEM				Steering Gear (Tricycle)	21	21	21
Energy Cells	128	128	128	Tie Rods & Toe-In	4	4	4
Fuel Supply Pump .....	...	131	131	GOVERNOR			
Fuel System Bleeding	113	113	113, 113A	Adjust, Non-Diesel	133	133	133
Governor Adjustment	127	127	127	Adjust, Diesel	127	127	127
Nozzles, Testing	116	116	116, 121A	Overhaul, Non-Diesel	137	137	137
Nozzles, R&R	115	115	115, 121	HYDRA-POWER DRIVE UNIT ...	154	154	154
Nozzles, Overhaul	120A	120A	120A, 121F	HYDRAULIC SHIFT .....	...	...	171A
Injection Pump R&R	123	123	123	HYDRAULIC SYSTEM (Other Than			
Injection Pump Timing	122A	122A	122A	Depth-Stop Cylinder)			
Trouble Shooting	110	110	110	Adjustments	236	236	236
DIFFERENTIAL				Electrical Tests	232	232	232
Overhaul	206	206	206	Lubrication & Maintenance ...	233	233	233
Remove & Reinstall	204	204	204	Hydra-Lectric Control Unit ...	250	250	250
ELECTRICAL				Hydraulic Housing	253	253	253
Alternator	148	.....	148	Control Levers & Linkage	254	254	254
Distributor	143	142	143	Flow Divider Valve	244	244	244
Generator .....	.....	147	.....	Pump .....	.....	245, 246B, 246C	.....
Regulator	148	147	148	Pump Drive Shaft & Pinion ...	247	247	247
Starting Motor	149	149	149	Rockshaft	256	256	256
Wiring Diagrams .....	.....	—Pages 69, 70, 71, 72—		Rockshaft Cylinder	257	257	257
ENGINE				Remote Cylinders	261	261	261
Assembly R&R	60	60	60	Trouble Shooting	231	231	231
Cam Followers	67	67	67	HYDRAULIC SYSTEM (Depth-Stop Remote			
Camshaft	74	74	74	Cylinder System Only)			
Connecting Rods & Bearings ..	79	79	79	Adjustments	265	.....	265
Crankshaft & Bearings	80	80	80	Fluid and Filters	268	.....	268
Cylinder Head	61	61	61	Overhaul	269	.....	269
Cylinder Sleeves	76	76	76	POWER STEERING	47	47	47
Flywheel	83	83	83	POWER TAKE-OFF			
Front Oil Seal	81	81	81	Clutch Adjustment	217, 224	217	217, 224
Main Bearings	80	80	80	Clutch Overhaul	219, 227	219	219, 227
Oil Pump	84	84	84, 86, 87	Drive Shaft R&R	221, 226	221	221, 226
Pistons	76	76	76	PTO Unit R&R	223, 229	223	223, 229
Piston Pins	78	78	78	REVERSE-O-TORC DRIVE UNIT ..	185	179	179, 185
Piston & Rod Removal	75	75	75	STEERING GEAR (Manual)			
Piston Rings	77	77	77	Axle Type	9	9	9
Rear Oil Seal	82	82	82	Tricycle Type	21	21	21
Relief Valve, Oil Pressure	88	88	88	TRANSMISSION			
Rocker Arms	68	68	68	Bevel Pinion Shaft	203G	202	202
Tappets (Cam Followers)	67	67	67	Countershaft	203F	199	199
Timing Gear Cover	70	70	70	Input Shaft	203E	195	195
Timing Gears	71	71	71	Reverse Idler	203H	201	201
Valve Guides	64	64	64	Shift Rails and Forks	203D	197	197
Valve Rotators	65	65	65	Shift Cover	203D	192	192
Valve Springs	66	66	66				
Valves & Valve Seats	63	63	63				

SHOP MANUAL

OLIVER & COCKSHUTT

SERIES 1755, 1855, 1955

Also Covers MINNEAPOLIS-MOLINE
SERIES G-850, G-940

NOTE: Servicing the Minneapolis-Moline Series G-850 can be accomplished by using the information contained in this manual for Series 1755. To service Minneapolis-Moline Series G-940, use information for Series 1855.

SERIAL NUMBER LOCATION

Tractor serial number plate is located on the rear side of the instrument panel support. Engine serial number is stamped on right flange of engine directly below the alternator.

BUILT IN THESE VERSIONS

Rowcrop Tricycle, Rowcrop Adjustable Front Axle, Rowcrop Utility, Wheatland and Four-Wheel Drive. Wheatland models are available with non-adjustable front axles only.

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	Series 1755	Series 1855	Series 1955		Series 1755	Series 1855	Series 1955
BRAKES	205	205	205	ENGINE CONT.			
CARBURETOR	86	86	....	Crankshaft and bearings ...	74	74	74
CLUTCH				Cylinder head	56	56	56
Engine clutch adjustment ...	133	133	133	Cylinder sleeves	68	68	68
Engine clutch R&R	134	134	134	Flywheel	77	77	77
Engine clutch overhaul	135	135	135	Front oil seal	75	75	75
COOLING SYSTEM				Idler gear	65	65	65
Water pump	125	125	125	Main bearings	74	74	74
Radiator	124	124	124	Oil cooler	82	82	82
Thermostat	127	127	127	Oil pump	78	78	78
DIESEL SYSTEM				Pistons	68	68	68
Fuel supply pump	115	115	115	Piston pins	72	72	72
Fuel system bleeding	96	96	96	Piston and rod removal	67	67	67
Governor adjust	114	114	114	Piston rings	71	71	71
Nozzles, testing	102	102	102	Rear oil seal	76	76	76
Nozzles, R&R	101	101	101	Relief valve, oil pressure	81	81	81
Nozzles, overhaul	107	107	107	Rocker arms	62	62	62
Injection pump, R&R	110	110	110	Tappets	61	61	61
Injection pump, timing	109	109	109	Timing gear cover	64	64	64
Trouble shooting	93	93	93	Timing gears	65	65	65
DIFFERENTIAL				Valve guides	58	58	58
Overhaul	198	198	198	Valve rotators	59	59	59
Remove and reinstall	195	195	195	Valve springs	60	60	60
ELECTRICAL				Valve timing	63	63	63
Distributor	129	129	....	Valves and valve seats	58	58	58
Alternator	131	131	131	FINAL DRIVE			
Regulator	131	131	131	Bevel gears	199	199	199
Starting motor	132	132	132	Bull gears	203	203	203
ENGINE				Bull pinions	204	204	204
Assembly, R&R	55	55	55	Differential	195	195	195
Cam followers	61	61	61	Wheel axle shaft	201	201	201
Camshaft	66	66	66	FRONT SYSTEM			
Connecting rod and bearings	73	73	73	Four-wheel drive	13	13	13
				Front axle member	1	1	1

	Series 1755	Series 1855	Series 1955
FRONT SYSTEM CONT.			
Front bolster	4	4	4
Pivot pin	1	1	1
Spindle (knuckle)	6	6	6
Tie rods & toe-in	5	5	5
GOVERNOR			
Adjustment, non-diesel	119	119	....
Adjustment, diesel	114	114	114
Overhaul, non-diesel	123	123	....
R&R, non-diesel	123	123	....
HYDRA-POWER	145	145	145
HYDRAUL SHIFT	162	162	162
LIFT SYSTEM, HYDRAULIC			
Draft control spring, adjust	245	245	245
Draft input shaft	266	266	266
Drain and refill	240	240	240
External lift cylinders	271	271	271
Hitch control lever	265	265	265
Hydraulic housing	262	262	262
Lubrication and maintenance	239	239	239
Cylinder and piston	269	269	269
Manifold	267	267	267
Oil filter	241	241	241
Pump	256	256	256

	Series 1755	Series 1855	Series 1955
LIFT SYSTEM CONT.			
Pressure relief valve	249	249	249
Quick check	237	237	237
Remote cylinders	288	288	288
Remote valves	280	280	280
Rockshaft	263	263	263
Servo valve	267	267	267
System adjustments	243	243	243
Trouble shooting	225	225	225
POWER STEERING	40	40	40
POWER TAKE-OFF			
Control valve	219	219	219
Clutch overhaul	217	217	217
Drive shaft, R&R	215	215	215
PTO unit, R&R	216	216	216
TRANSFER DRIVE	32	32	32
TRANSMISSION			
Bevel pinion shaft	191	191	191
Countershaft	190	190	190
Input shaft	188	188	188
Lubrication system	176	176	176
Reverse idler	194	194	194
Shifter rails & forks	184	184	184
Top cover	183	183	183
TURBOCHARGER .....	....	117	117

CONDENSED SERVICE DATA

	Series 1755	Series 1855	Series 1955
GENERAL			
Engine Make	Own	Own	Own
Cylinders, No. of	6	6	6
Cylinder Bore—Inches	3 ⁷ / ₈	3 ⁷ / ₈	3 ⁷ / ₈
Stroke—Inches			
Non-Diesel	4	4	....
Diesel	4 ³ / ₈	4 ³ / ₈	4 ³ / ₈
Displacement—Cubic Inches			
Non-Diesel	283	283	....
Diesel	310	310	310
Compression Ratio:			
Gasoline	8.5:1	8.5:1	....
Diesel	16.0:1	16.5:1	16.0:1
Main Bearings No. of	7	7	7
Cylinder sleeves Type	Wet	Wet	Wet
Forward Speeds, No. of	6	6	6
Battery Terminal Grounded ..	Negative		
TUNE-UP			
Firing Order	1-5-3-6-2-4		
Valve Tappet Gap Inlet:			
Non-Diesel	0.020	0.020	....
Diesel	0.030	0.030	0.030
Valve Tappet Gap, Exhaust:			
Non-Diesel	0.030	0.030	....
Diesel	0.030	0.030	0.030
Valve Face Angle, Degrees ..	See Par. 58		
Valve Seat Angle, Degrees ..	See Par. 58		
Ignition Distributor Make	Holley		
Ignition Distributor Model ..	D-2563AA		
Generator and Regulator			
Make	Delco-Remy		
Generator Model	1100808		
Regulator Model	1119511		
Starting Motor Make	Delco-Remy		
Starting Motor Model:			
Non-Diesel	1108431	1108431	....
Diesel	1113139	1113656	1113656
Ignition Distributor Contact Gap	0.025	0.025	....
Ignition Distributor Timing (Static):			
Gasoline	0.025	0.025	....
Injection Pump Make	Roosa-Master		
Injection Pump Timing (Static)	4°	4°	2°
Carburetor Make	-Marvel Schebler-		

	Series 1755	Series 1855	Series 1955
TUNE-UP (Cont.)			
Carburetor Model	USX-44	USX-37	....
Engine Low Idle RPM	800	800	800
Engine High Idle RPM	2640	2640	2640
Engine Rated RPM	2400	2400	2400
PTO RPM @ Engine Rated RPM:			
540 rpm pto	549	549	549
1000 rpm pto	984	984	984
SIZES—CLEARANCES—CAPACITIES			
Crankshaft Journal Dia.	2.624-2.625		
Crankpin Diameter	2.4365-2.4375		
Rod Length	6.749-6.750		
Camshaft Journal Diameter:			
Front	1.749-1.750		
Others	1.7485-1.7495		
Piston Pin Diameter	1.2494-1.2497		
Valve Stem Diameter:			
Inlet	0.372-0.373		
Exhaust	0.371-0.372		
Piston Ring Side			
Clearance	See Par. 71		
Main Bearing Clearance	0.0015-0.0045		
Rod Bearings Clearance	0.0005-0.0015		
Piston Skirt Clearance	See Par. 70		
Crankshaft End Play	0.0045-0.0095		
Camshaft Bearing			
Clearance	See Par. 66		
Cooling System—Gallons ...	5	5	5
Engine Crankcase			
w/filter—Qts	9	9	9
Fuel Tank, Gasoline—Gals. ...	35	35	35
Fuel Tank Diesel—Gallons ...	35	35	35
Transmission and Final			
Drive—Qts	43	43	43
Transfer Case—Quarts	1	1	1
Hydra-Power Drive—Quarts ..	6	6	6
Hydraulic Lift—Quarts	27	27	27
Diff. Housing (4WD)—			
Quarts	8	8	8
Planetary Drive (4WD)—Qts ..	2.5	2.5	2.5
TIGHTENING TORQUES—Ft.-Lbs.			
Cylinder Head:			
Non-Diesel	129-133		
Diesel	See Par. 57		
Main Bearings	129-133		
Connecting Rods	44-46		
Flywheel	67-69		

SHOP MANUAL

OLIVER

MODEL 2255

Also Covers MINNEAPOLIS-MOLINE
Models G955-G1355

Tractor ser. no. plate is located on rear side of instrument panel support.

Engine serial number plates for Oliver tractors are located on left side of cylinder block and on top side of left valve cover.

Engine serial number plate for Minneapolis-Moline tractors is located on right side of engine crankcase.

INDEX (By Starting Paragraph)

	Model G955	Model G1355	Model 2255		Model G955	Model G1355	Model 2255
BRAKES	208	208	208	ENGINE CONT.			
CARBURETOR	99	99	...	Valve guides.....	53	53	78
CLUTCH				Valve springs.....	53	53	79
Engine clutch adjustment....	156	156	156	Valve timing.....	56	56	82
Engine clutch R&R.....	157	157	157	Valves and valve seats.....	52	52	78
Engine clutch overhaul.....	158	158	158	FINAL DRIVE			
COOLING SYSTEM				Bevel gears.....	199	199	199
Water pump.....	148	148	149	Bull gears.....	206	206	206
Radiator.....	147	147	147	Bull pinions.....	207	207	207
Thermostat.....	151	151	151	Differential.....	195	195	195
DIESEL SYSTEM				Wheel axle shaft.....	201	201	201
Energy cells.....	144	...	...	FRONT SYSTEM			
Fuel system bleeding.....	109	109	110	Four-wheel drive.....	...	...	6
Governor adjust.....	135	135	141	Front axle member.....	1	1	1
Nozzles, testing.....	113	120	127	Front bolster.....	2	2	2
Nozzles, R&R.....	112	119	126	Pivot pin.....	1	1	1
Nozzles, overhaul.....	118	125	132	Spindle (knuckle).....	4	4	4
Injection pump, R&R.....	134	134	140	Tie rods & toe-in.....	3	3	3
Injection pump, timing.....	133	133	138	GOVERNOR			
Trouble shooting.....	106	106	106	Adjustment, non-diesel.....	145	145	...
DIFFERENTIAL				Adjustment, diesel.....	135	135	141
Overhaul.....	198	198	198	Overhaul, non-diesel.....	146	146	...
Remove and reinstall.....	195	195	195	R&R, non-diesel.....	146	146	...
ELECTRICAL				HYDRAULIC SHIFT	162	162	162
Distributor.....	152	152	...	LIFT SYSTEM, HYDRAULIC			
Alternator.....	154	154	154	Draft control spring,			
Regulator.....	154	154	154	adjust.....	272	272	272
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ENGINE				Drain and refill.....	237	237	237
Assembly, R&R.....	50	50	76	External lift cylinders.....	268	268	268
Cam followers.....	54	54	80	Hitch control lever.....	262	262	262
Camshaft.....	63	63	85	Hydraulic housing.....	259	259	259
Connecting rod bearings.....	68	68	90	Lubrication and			
Crankshaft and bearings.....	69	69	91	maintenance.....	236	236	236
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Flywheel.....	73	73	94	Manifold.....	264	264	264
Front oil seal.....	71	71	92	Oil filter.....	238	238	238
Main bearings.....	69	69	91	Pump.....	253	253	253
Oil cooler.....	...	75A	98	Pressure relief valve.....	246	246	246
Oil pump.....	75	75	96	Quick check.....	233	233	233
Pistons.....	65	65	87	Remote cylinders.....	285	285	285
Piston pins.....	67	67	89	Remote valves.....	277	277	277
Piston and rod removal.....	64	64	86	Rockshaft.....	260	260	260
Piston rings.....	65	65	88	Servo valve.....	264	264	264
Rear oil seal.....	72	72	93	System adjustments.....	240	240	240
Relief valve, oil pressure.....	75	75	97	Trouble shooting.....	221	221	221
Rocker arms.....	55	55	81	POWER STEERING	30	30	30
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				Input shaft	188	188	188
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CONDENSED SERVICE DATA

	Model G955	Model G1355	Model 2255
GENERAL			
Engine Make	Own	Own	Caterpillar
Number of Cylinders	6	6	8
Bore & Stroke—Inches (Non-Diesel)	4¼ x5	4-5/8x5	.....
Bore & Stroke—Inches (Diesel)	4-3/8x5	4¾ x5½	* 4½x5
Displacement—Cu. In. (Non-Diesel)	425	504	.....
Displacement—Cu. In. (Diesel)	451	585	*636
Cylinders Sleeved	No	No	No
Main Bearings, Number of	4	4	5
TUNE-UP			
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4	1-2-7-3-4-5-6-8
Valve Tappet Gap—Inlet (Cold)			
Diesel	0.015	0.010	0.015
Non-Diesel	0.012	0.010	.....
Valve Tappet Gap—Exhaust (Cold)			
Diesel	0.022	0.020	0.025
Non-Diesel	0.028	0.028	.....
Compression At Cranking Speed (PSI)			
LPG	185-215	185-215	.....
Diesel	440-460	440-460	640
Ignition Distributor Make	Delco-Remy	Delco-Remy	.....
Breaker Contact Gap	0.021	0.021	.....
Ignition Timing (LP-Gas)	16° at 1200	17° at 1500	.....
Injection Timing	2° BTDC	4° ATDC	16° BTDC Static
Timing Mark Location	Flywheel	Flywheel	Par. 138
Spark Plug Electrode Gap			
LP-Gas	0.015	0.015	.....
Carburetor Make (LP-Gas)	Century	Century	.....
Engine Low Idle RPM (Non-Diesel)	600	600	.....
Engine Low Idle RPM (Diesel)	600	700	800
Engine High Idle RPM (Non-Diesel)	2040	2400	.....
Engine High Idle RPM (Diesel)	1950	2335	2820
Engine Loaded RPM (Non-Diesel)	1800	2200	.....
Engine Loaded RPM (Diesel)	1800	2200	2625
SIZES—CAPACITIES—CLEARANCES			
(Clearances in Thousandths)			
Crankshaft Journal Diameter			
(Non-Diesel)	2.9110-2.9120	2.9110-2.9120	.....
Crankshaft Journal Diameter (Diesel)	2.9110-2.9120	3.4980-3.4990	Par. 91
Crankpin Diameter (Non-Diesel)	2.9115-2.9120	2.9115-2.9120	.....
Crankpin Diameter (Diesel)	2.9115-2.9120	3.4980-3.4990	Par. 91
Camshaft Journal Diameter			
No. 1 (Front)	3.3380-3.3390	3.3380-3.3390	Par. 85
No. 2	3.3075-3.3085	3.3075-3.3085	.....
No. 3	3.2750-3.2760	3.2750-3.2760	.....
No. 4	1.9960-1.9970	1.9960-1.9970	.....
Main Bearings, Diameter Clearance			
Non-Diesel	1.4-4.4	1.4-4.4	.....
Diesel	1.4-4.4	3.3-5.3	1.5-4.5
Rod Bearing, Diameter Clearance			
Non-Diesel	1.4-3.9	1.4-3.9	.....
Diesel	1.4-3.9	2.3-5.3	1.5-4.5
Cooling System—Gallons			
Non-Diesel	7.5	7.5	.....
Diesel	8.25	8.25	10.0
Crankcase Oil—Quarts (Including Filter)			
Non-Diesel	15	15	.....
Diesel	15	15	12
Transmission and Differential—Gals. . . .	10.75	10.75	10.75

*For 3208 engine; 4½x4½ bore and stroke, 573 C.I.D. for 3150 engine.