

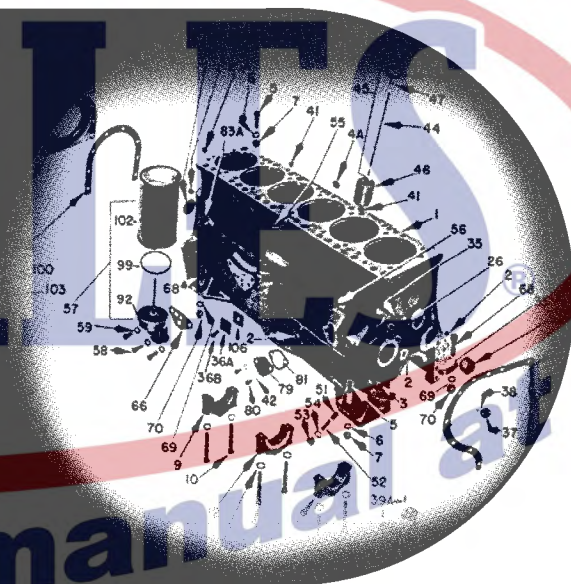
John Deere

CLICK ANYWHERE FOR MORE DETAILS

MODEL:

500-C Loader Backhoe

**PARTS
MANUAL**



JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
JOHN DEERE OR IT'S SUCCESSORS. **JOHN DEERE** AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

JD-P-PC1239

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

Parts Catalog

PC-1239

JD500-C Loader Backhoe

JENSALES®

purchase full manual at

JENSALES.COM

or call 800-443-3825



NOTE

This is a completely revised parts catalog. Discard the old catalog and insert this revision in its place.

NOTA

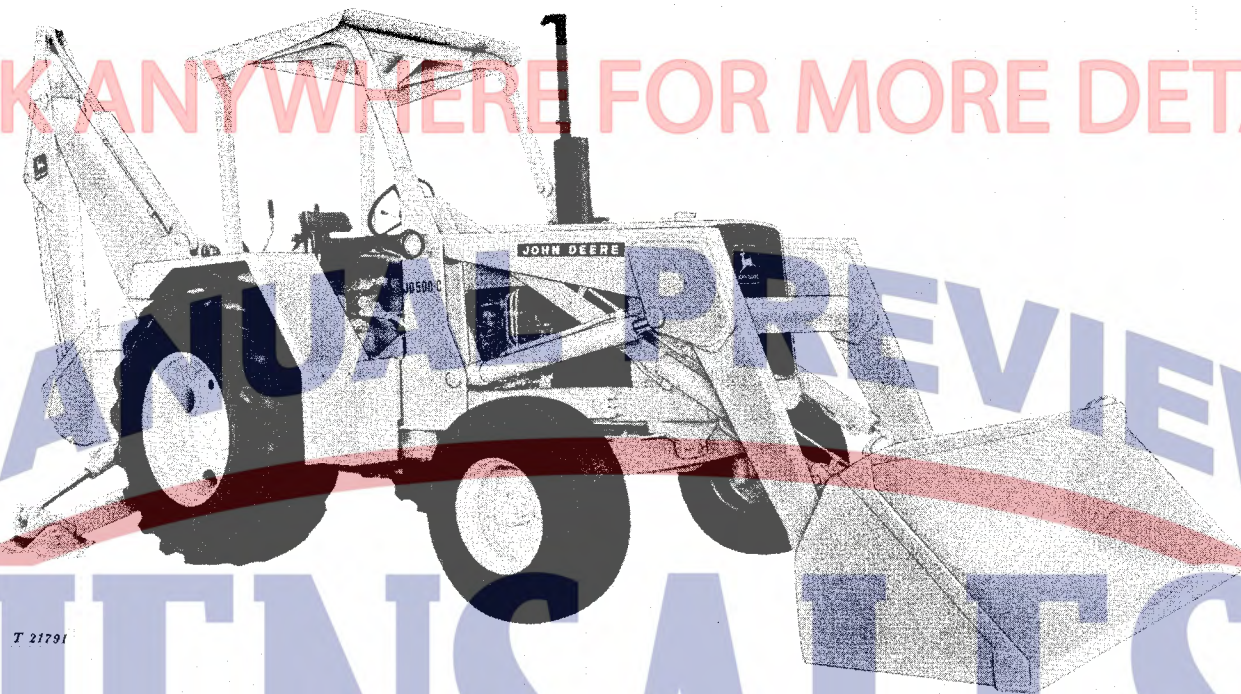
Esta es una revisión completa del catálogo de piezas. Destruya su catálogo anterior e inserte esta revisión en su lugar.

ANMERKUNG

Diese Ersatzteilliste ist vollständig neu bearbeitet. Die alte Ersatzteilliste ist fortzuwerfen und an ihre Stelle die Neu-Ausgabe zu setzen.

NOTE

Voici un catalogue de pièces de rechange complètement révisé. Jetez l'ancien catalogue et mettez à sa place ce catalogue révisé.



*Right Side View of a JD500-C Loader Backhoe With 9705 Backhoe
(Manufactured 1971-)*

Specifications and design subject to change without notice.

TO THE CUSTOMER

The part numbers in this catalog were correct at the time your machine was manufactured. It is our policy to constantly improve our machines and, therefore, part numbers may change. When ordering parts, verify part numbers through your dealer's catalog which is up to date with all new part numbers.

AN EXPLANATION OF CHANGE INDICATOR LINE

New and revised information is identified by vertical lines marked in the left-hand margin of revised pages. These lines indicate changes affecting the ordering of parts.

or Call 800-443-0625

e .

Brake pedals	118
Brake pistons	121
Brake, planetary	61-64
Brake plates	121
Brake pressure pipes	102
Brake valve	119
Breaker, circuit	146,147
Bucket cylinder, backhoe	200
Bucket cylinder circuits, loader	172,173
Bucket cylinder, loader	177
Bucket, Drott 4-in-1	162A
Bucket level indicator	164
Bucket levers, loader	163
Bucket links, loader	161
Buckets, backhoe	203-205
Buckets, loader	161,162
Bucket valve, backhoe	190
Bulb, indicator lights	139
Bulb, speed hour meter	149
Bulb, warning light	145
Button, starter	150
Bypass pipes, water	24
Bypass valve, hydraulic oil cooler	109
C	
Cab blower motor	127G
Cab doors	127B
Cab electrical wiring system	142A
Cab frame	127A
Cab heater and hoses	127I,127J
Cab panels	127C,D
Cab pressurizer cover	127H
Cab rear window	127E
Cab roof	127F
Cables, battery	145
Cable, transmission lock	73
Camshaft	5
Canopy	127
Cap, radiator	20
Cartridges, backhoe circuit relief valve	193
Case, transmission	56,57
Check valve, steering valve	98
Cigar lighter	150
Circuit breaker	146,147
Circuit relay, starting	147
Circuit relief valve cartridges, backhoe	193
Cleaner, dry air	14
Cleaning gun, element, air cleaner	14
Clutch control lever, PTO	50
Clutch control rod, transmission	
disconnect	42
Clutch control, transmission and PTO	52
Clutch fork shaft, transmission	
disconnect	42
Clutch fork, transmission disconnect	42
Clutch housing	39,40
Clutch lever linkage, transmission	
disconnect	41
Clutch oil accumulator piston	39
Clutch oil manifold, transmission	44
Clutch oil pump, transmission	44
Clutch pack, planetary	64
Clutch pack, transmission	45,46
Clutch pedal	47,52
Clutch regulating valve, transmission	49
Clutch, transmission and PTO	51
Clutch, transmission disconnect	43
Clutch valve control linkage, PTO	53
Clutch valve oil pipe, PTO	55
Clutch valve, PTO	54
Clutch valve, transmission	47,48
Cock, radiator drain	20
Cold weather starting aid	28
Connecting rod bearings	9

ALPHABETICAL INDEX—Continued

	Page		Page
Connecting rods	9	Drawbar	137
Control lever and quadrant, transmission shifter	81	Drive, hydraulic pump	107
Control lever, PTO clutch	50	Drive shaft assembly, transmission	77
Control levers, backhoe	185	Drive, speed hour meter	3
Control linkage, PTO clutch valve	53	Drott 4-in-1 bucket	162A
Control linkage, speed	17,18	Drott 4-in-1 bucket, clam cylinder	162C
Control linkage, transmission reverse shifter	74	Drott 4-in-1 bucket, oil lines and fittings	162B,162E
Control linkage, transmission shifter	72	Drum, clutch front	45
Control rod, speed	19	Drum, clutch rear	46
Control support	126	Dry air cleaner	14
Control support cover	126		E
Control valve and arms, transmission	70	Electrical wiring system, cab	142A
Control valve, backhoe	187	Element, air cleaner	14
Control valve cover, loader	168,168B	Element, air cleaner cleaning gun	14
Control valve, hydraulic pump stroke	105	Element, engine oil filter	3
Control valve linkage, loader	167,168A	Element, fuel filter	29
Control valve linkage, loader, with Drott bucket	162D,162F	Element, transmission oil filter	75,84
Control valve, loader	168-170	Emblem, slow moving vehicle	181
Control valve, pressure	107,108	Engine balancer	10
Control valve, steering valve	97	Engine coolant heater	13
Control valve, transmission	69	Engine oil cooler	12
Cooler bypass valve, hydraulic oil	109	Engine oil dipstick	2
Cooler, engine oil	12	Engine oil filter	3
Cooler, oil	22,23	Engine oil filter element	3
Countershaft	76	Engine oil heater	13
Counterweights, loader	166A	Engine oil pressure indicator light	139
Cover, backhoe valve	186	Engine oil pump	12
Cover, cab pressurizer	127H	Exhaust manifold	16
Cover, exhaust muffler	15	Exhaust muffler cover	15
Cover, instrument panel	140		F
Cover, loader control valve	168,168B	Facings, brake	121
Cover, rocker arm	5	Fan	21
Covers, control support	127	Fan belt	154
Cover, steering cylinder	99	Fan pulley	21
Cover, timing gear	11	Fan shroud	20
Cover, transmission case, top	58	Fender, brace	168B
Cover, transmission rear	59	Fenders and supports	134
Cowl	125	Fender step	135
Crankshaft	7	Filter and intake, transmission oil	75
Crankshaft pulley	7	Filter element, engine oil	3
Crowd cylinder, backhoe	199	Filter element, fuel	29
Crowd valve, backhoe	189	Filter element, transmission oil	75,84
Cylinder, backhoe boom	202	Filter, engine oil	3
Cylinder, backhoe bucket	200	Filter, fuel	29
Cylinder, backhoe crowd	199	Filter restriction indicator light, air cleaner	139
Cylinder, backhoe stabilizer	198	Filter restriction indicator light, hydraulic	139
Cylinder, backhoe swing	201	Filter valve housing, transmission oil	110
Cylinder block	1	540-1000 RPM PTO drive gear and shafts	87,88
Cylinder, clam, Drott 4-in-1 bucket	162C	Flasher, warning light	141
Cylinder cover, steering	99	Floor mat	129
Cylinder head	4	Fluid, starting aid	28
Cylinder head gasket	4,157	Flywheel	7
Cylinder liners	2	Foot, stabilizer	180,181
Cylinder, loader boom	178	Frame, backhoe main	179
Cylinder loader bucket	177	Frame, backhoe swing	182
Cylinder oil pipes, steering	100	Frame, cab	127A
Cylinder, steering	103	Frame plate	128
	D	Frames	128
Dash panel and cover	138	Frames, loader side	166
Decals	159,206	Front axle and pivot bracket	116
Differential	67,78,90,91	Front frame	128
Differential drive and bevel pinion assembly	78	Front guard, PTO	88
Differential drive, transmission	67	Front light	143
Differential lock valve	92	Front wheel	114,115
Differential lock valve oil pipes	93	Fuel filter	29
Differential lock valve pedal assembly	94	Fuel filter element	28
Dipperstick, backhoe	184	Fuel gauge sender	25
Dipstick, engine oil	2	Fuel injection nozzle	30
Dipstick, transmission	59	Fuel injection pump	31-38
Doors, cab	127B	Fuel injection system	31
Drain cock, radiator	20	Fuel gauge	139
		Fuel lines	25,26,28,29, 31
		Fuel strainer	25

ALPHABETICAL INDEX—Continued

	Page		Page
Fuel tank	25		
Fuel transfer pump	26,27		
Fuse	141		
		K	
G		Key, ignition	150
Gasket, cylinder head	4,157	Kit, brake valve overhaul	118,119
Gasket, oil pan	2,158	Kit, fuel injection pump	32-38
Gasket, rocker arm cover	5,157	Kit, fuel transfer pump	27
Gasket sets	157,158	Kit, hydraulic pump overhaul	104,105
Gauge, fuel	139	Kit, lead wire	155
Gauge sender, fuel	25	Kit, loader control valve	168-170
Gauge, transmission oil temperature	139	Kit, o-ring	158
Gauge, water temperature	139	Kit, overhaul steering piston,	
Gear and shaft, transmission idler	66	cylinder and valve	96-99
Gear, flywheel	7	Kit, radiator baffle and cushion	20
Gear reduction, transmission	66	Kit, repair, backhoe stabilizer	
Gears and shafts, engine balancer	10	cylinder	198
Gear shifters and shaft	80	Kit, repair, backhoe swing cylinder	201
Gear, spiral bevel	67,78,90,91	Kit, repair, backhoe valve	188-192
Gears, PTO	85-88	Kit, repair, loader boom cylinder	178
Grille	124	Kit, repair, loader bucket cylinder	177
Grille housing	25	Kit, repair, plug or relief valve,	
Guard, front, PTO	88	backhoe	189,191,192
Guard, PTO rear	89	Kit, section, backhoe control valve	187
Gun, air cleaner element cleaning	14	Kit, starting motor	151,152
		Kit, steering cylinder overhaul	103
H		Kit, storage	159
Harness, main wiring	141		
Head, cylinder	4	L	
Head gasket, cylinder	4,157	Label, park	138
Heater, cab	127I,127J	Label, PTO lever	138
Heater, engine coolant	13	Label, shift	138
Heater, engine oil	13	Lever and linkage, reverse shift	82
Hood	123	Lever and quadrant, transmission	
Horn	148	shifter control	81
Horn switch	148	Lever, PTO clutch control	50
Hour meter	148	Levers, backhoe control	185
Hour meter drive, speed	3	Levers, control valve, Drott 4-in-1 bucket	162D,162F
Hour meter, speed	149	Levers, loader bucket	163
Housing, clutch	39,40	Levers, steering valve operating	99
Hydraulic filter restriction indicator		Light, air cleaner filter restriction	
light	139	indicator	139
Hydraulic pump	104	Light, engine oil pressure indicator	
Hydraulic pump drive	107	light	139
Hydraulic pump stroke control valve	105	Lighter, cigar	149
Hydraulic pump support	107	Light flasher, warning	141
Hydraulic oil accumulator	106	Light, front	143
Hydraulic oil cooler bypass valve	109	Light hydraulic filter restriction	
Hydraulic oil outlet manifold and		indicator	139
pipes	113	Light, rear	142,142B,143
Hydraulic oil pipes support	101	Light switch	149
Hydraulic oil return pipes	111,112	Light, warning	144
		Light wiring system	142
I		Liners, cylinder	2
Idler gear and shaft, transmission	66	Lines, fuel	25,26,28,29,31
Idler gears, PTO	85-88	Lines, oil, backhoe	194-197
Ignition key	150	Linkage, control valve,Drott 4-in-1 bucket	162D,162F
Ignition switch	150	Links, loader bucket	163
Indicator, bucket level	164	Lines, loader valve pressure return	174
Indicator light, air cleaner filter		Loader boom	165
restriction	139	Loader boom cylinder	178
Indicator light, alternator	139	Loader boom cylinder circuits	175,176
Indicator light bulbs	139	Loader bucket cylinder	177
Indicator light, engine oil pressure	139	Loader bucket cylinder circuits	172,173
Indicator light, hydraulic filter		Loader bucket levers	163
restriction	139	Loader bucket links	163
Injection nozzle, fuel	30	Loader buckets	161,162
Injection pump, fuel	31-38	Loader control valve	168,170
Injection system, fuel	31	Loader control valve section,	
Inserts, valve	4	with Drott 4-in-1 bucket	168
Instrument panel	139	Loader control valve cover	168,168B
Instrument panel cover	140	Loader control valve linkage	167,168A
Intake manifold	16	Loader control valve relief valve	171
Intake pipe and hoses, air	15	Loader counterweights	166A
Intake, transmission oil pump and oil		Loader side frames	166
filter	75	Loader valve pressure return lines	174
		Lock arm and cable, transmission	73
		Lock, transmission	68

ALPHABETICAL INDEX—Continued

	Page		Page
Lock valve, differential	92	Pedal, clutch	47,52
Lock valve oil pipes, differential	93	Pedal, foot speed	18
Lock valve pedal assembly,		Pinion assembly, bevel	67,78,90,91
differential	94	Pinion assembly, bevel, differential	78
M		drive	107
Main bearings	8	Pipe, oil pressure	120,121
Main wiring harness	141	Pipes, brake oil	102
Manifold and pipes, hydraulic oil		Pipes, brake pressure	113
outlet	113	Pipes, hydraulic oil outlet manifold	111,112
Manifold, exhaust	16	Pipes, hydraulic oil return	102
Manifold, intake	16	Pipes, steering pressure	102
Manifold, transmission clutch oil	44	Pipes, steering return	121
Master shield, PTO	89	Piston, brake	39
Mat, floor	129	Piston, clutch oil accumulator	9
Meter, hour	148	Piston rings	9
Metering shaft, steering valve	97	Pistons	96
Meter, speed hour	149	Piston, steering	116
Motor, cab blower	127G	Pivot bracket, front axle	95
Motor, starting	151,152,152A,152B	Planetary and rear axle	60,61
Muffler	16	Planetary assembly	61-64
Muffler cover, exhaust	15	Planetary brake	64
Muffler extension	16	Planetary clutch pack	128
		Plate, frame	121
N		Plates, brake	129
Nozzle, fuel injection	30	Platform	107,108
O		Pressure control valve	139
Oil	160	Pressure indicator light, engine oil	107
Oil accumulator, hydraulic	106	Pressure pipe, oil	3
Oil cooler	22,23	Pressure regulator, oil	174
Oil cooler bypass valve, hydraulic	109	Pressure return lines, loader valve	50
Oil cooler, engine	12	PTO clutch control lever	52
Oil dipstick, engine	2	PTO clutch control, transmission	51
Oil filter and intake, transmission	75	PTO clutch, transmission	54
Oil filter element, engine	3	PTO clutch valve	53
Oil filter element, transmission	75,84	PTO clutch valve control linkage	55
Oil filter, engine	3	PTO clutch valve oil pipe	88
Oil filter valve housing,		PTO front guard	85-88
transmission	110	PTO gears	89
Oil heater, engine	13	PTO master shield	89
Oil lines and fittings control		PTO rear guard	85-88
valve to Drott bucket	162E	PTO shafts	154
Oil lines, backhoe	194-197	Pulley, alternator	7
Oil lines, Drott 4-in-1 bucket	162B	Pulley, crankshaft	21
Oil outlet manifold and pipes, hydraulic	113	Pulley, fan	107
Oil pan	2	Pump drive, hydraulic	11
Oil pan gasket	2,158	Pump, engine oil	31-38
Oil pipe, PTO clutch valve	55	Pump, fuel injection	26,27
Oil pipes, brake	120,121	Pump, fuel transfer	104
Oil pipes, differential lock valve	93	Pump, hydraulic	75
Oil pipes, steering cylinder	100	Pump intake, transmission oil	104
Oil pipes support, hydraulic and		Pump stroke control valve, hydraulic	107
steering	101	Pump support, hydraulic	44
Oil pressure indicator light, engine	139	Pump, transmission clutch oil	83
Oil pressure pipe	107	Pump, transmission oil	21
Oil pressure regulator	3	Pump, water	6
Oil pump, engine	11		
Oil pump intake, transmission	75	Q	
Oil pump, transmission	83	Quadrant, transmission shifter	81
Oil return pipes, hydraulic	111,112	control	
Oil temperature gauge, transmission	139	R	
Outlet manifold and pipes, hydraulic		Radiator	20
oil	113	Radiator cap	20
P		Radiator drain cock	20
Pads, backhoe street	181	Range shifter and shaft	79
Panel cover, instrument	140	Rear guard, PTO	89
Panel, dash	138	Rear light	142,142B, 143
Panel, instrument	139	Rear wheel	123
Panels, cab	127C,D	Reflector, red	134
Pan, oil	2	Regulating valve, transmission clutch	49
Pedal assembly, differential lock		Regulator mounting brackets	154
valve	94	Regulator, oil pressure	3
Pedal bracket, brake	118	Regulator, voltage	154
Pedal, brake	118		

ALPHABETICAL INDEX—Continued

	Page		Page
Relay, starting circuit	147	Steering return pipes	102
Relief valve	171	Steering valve check valve	98
Relief valve cartridges, backhoe circuit	193	Steering valve control valve	97
Restriction indicator light, air cleaner filter	139	Steering valve housing	97,98
Restriction indicator light, hydraulic filter	139	Steering valve operating lever	99
Reverse shifter control linkage, transmission	74	Steering valve metering shaft	97
Reverse shift lever and linkage	82	Steering wheel	96
Rings, piston	9	Step, fender	135
Ripper tooth	206	Strainer, fuel	25
Rocker arm cover	5	Street pads, backhoe	181
Rocker arm cover gasket	5,157	Stroke control valve, hydraulic pump	105
Rocker arms	6	Support, hydraulic pump	107
Rod, push	6	Support, seat	131
Rods, connecting	9	Suspension, seat	133
Rod, tie	117	Swing cylinder, backhoe	201
Roll-guard	127	Swing frame, backhoe	182
Roof, cab	127F	Swing valve, backhoe	191
		Switch, horn	148
S		Switch, ignition	150
Seat	130	Switch, light	150
Seat belt	127	Switch, starting motor solenoid	152A,153
Seat support	131	Switch, start-safety	69
Seat suspension	132	Swivel, seat	133
Seat swivel	133	System, light wiring	142
Sender, fuel gauge	25	T	
Shaft assembly, transmission drive	77	Tank, fuel	25
Shaft, PTO drive	85-88	Temperature gauge, transmission oil	139
Shafts and gears, engine balancer	10	Temperature gauge, water	139
Shafts, PTO	85,88	Thermostat	24
Shield, PTO master	89	Thermostat housing	24
Shifter and shaft, range	79	Tie bar, backhoe	179
Shifter control lever and quadrant, transmission	81	Tie rod	117
Shifter control linkage, transmission	72	Timing gear cover	11
Shifter control linkage, transmission reverse	74	Timing hole cover	39,40
Shifter lever, transmission disconnect	65	Tooth, loader bucket	161
Shifters and shaft, gear	80	Tooth, ripper	206
Shift lever and linkage, reverse	82	Transmission and PTO clutch	51
Shift valve, transmission	71	Transmission and PTO clutch control	52
Shroud, fan radiator	20	Transmission case	56,57
Side frame	128	Transmission case top cover	58
Side frames, loader	166	Transmission clutch oil manifold	44
Slow moving vehicle emblem	181	Transmission clutch oil pump	44
Solenoid switch, starting motor	152A,153	Transmission clutch pack	45,46
Speed control linkage, foot	18	Transmission clutch regulating valve	49
Speed control linkage, hand	17	Transmission clutch valve	47,48
Speed control rod	19	Transmission control valve	69
Speed hour meter	149	Transmission control valve and arms	70
Speed hour meter drive	3	Transmission differential drive	67
Spiral bevel gear	67,78,90	Transmission dipstick	59
Stabilizer	180	Transmission disconnect clutch	43
Stabilizer cylinder, backhoe	198	Transmission disconnect clutch control rod	42
Stabilizer foot	180,181	Transmission disconnect clutch fork	42
Stabilizer valve, backhoe	188	Transmission disconnect clutch fork shaft	42
Starter button	150	Transmission disconnect clutch lever linkage	41
Starting aid cold weather	28	Transmission disconnect shifter lever	65
Starting aid fluid	28	Transmission drive shaft assembly	77
Starting circuit relay	147	Transmission gear reduction	66
Starting motor	151,152,152A,152B	Transmission idler gear and shaft	66
Starting motor solenoid switch	153	Transmission lock	68
Start-safety switch	69	Transmission lock arm and cable	73
Steering arms	117	Transmission oil filter	75,84
Steering cylinder	103	Transmission oil filter and intake	75
Steering cylinder cover	99	Transmission oil filter element	75,84
Steering cylinder oil pipes	100	Transmission oil filter valve housing	110
Steering cylinder support	103	Transmission oil pump	83
Steering oil pipes support	101	Transmission oil pump intake	75
Steering piston and cylinder	96	Transmission oil temperature gauge	139
Steering pressure pipes	102	Transmission rear cover	59
		Transmission reverser shifter control linkage	74

ALPHABETICAL INDEX—Continued

	Page		Page
Transmission shifter control lever and quadrant	81	Valve oil pipe, PTO clutch	55
Transmission shifter control linkage	72	Valve pipes, differential lock	93
Transmission shift valve	71	Valve operating levers, steering	99
		Valve pedal assembly, differential lock	94
V		Valve, pressure control	107,108
Valve and arms, transmission control	70	Valve, PTO clutch	54
Valve, backhoe boom	192	Valve, relief	171
Valve, backhoe bucket	190	Valves	6
Valve, backhoe control	187	Valve, steering check	98
Valve, backhoe crowd	189	Valve, transmission clutch	47,48
Valve, backhoe stabilizer	188	Valve, transmission clutch regulating	49
Valve, backhoe swing	191	Valve, transmission control	69
Valve, brake	119	Valve, transmission shift	71
Valve cartridges, backhoe circuit relief	193	Voltage regulator	154
Valve control linkage, PTO clutch	53		
Valve cover, loader control	168,168B	W	
Valve, differential lock	92	Warning light	144
Valve housing, steering	97,98	Warning light flasher	141
Valve housing steering control	97	Water bypass pipes	24
Valve housing, transmission oil filter	110	Water pump	21
Valve, hydraulic oil cooler bypass	109	Water temperature gauge	139
Valve, hydraulic pump stroke control	105	Wheel, front	114,115
Valve inserts	4	Wheel, rear	123
Valve linkage, loader control	167,168A	Wheel, steering	96
Valve, loader control	168-170	Window, cab rear	127E
Valve mounting bracket and cover, backhoe	186	Wiring, harness, main	141
		Wiring system, cab	142A
		Wiring system, light	142