



OPERATIONS, MAINTENANCE, AND PARTS MANUAL



Blaw-Knox Model CB-90 Broom

Manual No. 1006041-01

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CAUTION

The safety messages that follow have **CAUTION** level hazards.

Poor Lighting Hazard

Ensure that the work area is adequately illuminated. Always install wire cages on portable safety lights.

Tool Hazard

Always use tools appropriate for the task at hand and use the correct size tool for loosening or tightening Blaw-Knox Model CB-90 Broom parts.

NOTICE

The safety messages that follow have **NOTICE** level hazards.

Any part which is found defective as a result of inspection or any part whose measured value does not satisfy the standard or limit must be replaced.

Always tighten components to the specified torque. Loose parts can cause Blaw-Knox Model CB-90 Broom damage or cause it to operate improperly.

Only use replacement parts approved by LB Performance. Other replacement parts may affect warranty coverage.



Follow the guidelines of the EPA or other governmental agencies for the proper disposal of hazardous materials such as engine oil, diesel fuel and engine coolant. Consult the local authorities or reclamation facility.

Clean all accumulated dirt and debris away from the body of the broom and its components before you inspect the broom or perform preventive maintenance procedures or repairs. Operating a broom with accumulated dirt and debris will cause premature wear of broom components. Accumulated dirt and debris also hinders effective broom inspection.

Retrieve any tools or parts that may have dropped inside of the broom to avoid improper broom operation.

Dispose of hazardous materials in accordance with all applicable laws and regulations. Never dispose of hazardous materials by dumping them into a sewer, on the ground, or into groundwater or waterways.

If any alert indicator illuminates during broom operation, stop the engine immediately. Determine the cause and repair the problem before continuing to operate the broom.

ITEM	SPECIFICATION
Rear Axle, Differential, Semi-Float:	3.55:1 Ratio
Brakes:	Drum-Type Hydraulic

Table 4-5. System Capacity

ITEM	SPECIFICATION
Fuel:	114 L (30.0 gal)
Engine Lube Oil:	10 L (10.6 qt) KUBOTA
Hydraulic Oil Reserve:	90.9 L (24 gal)
Axle:	2.78 L (94 oz) Each

Table 4-6. Brush Operating System

ITEM	SPECIFICATION
Pump (Gear-Type):	72 LPM (19 GPM), 20684 kPa (207 bar, 3,000 psi)
Motor (Gerotor-Type):	Direct Drive
Brush Core (Welded Steel):	25 cm x 2.13 m (8.375 in. x 7 ft. 6 in.) 10 in. ID
Brush Filler (Wafer-Type):	25 cm x 81 cm (10 in. x 32 in.)
Brush Filler (Tube-Type):	25 cm x 81 cm (8.5 in. x 32 in.)
Brush Cover (Steel):	160°, Full Length
Brush Speed:	200 RPM maximum, Variable w/Engine RPM
Brush Angle:	45°, Left or Right
Brush Down Pressure Control:	Hydraulic, Fully Adjustable
Brush Watering System:	Poly Tank, 1 @ 284 liters (150 gallons), Strainer, 12 Volt Diaphragm-Type Pump

Table 4-7. Cab Specifications

ITEM	SPECIFICATION
ROPS Cab:	OSHA & SAE Certified
Windshield Wiper (Front):	12 Volt, 2-Speed
Defroster Fan (Front):	12 Volt, Variable Speed
Seat:	Padded with Seat Belt
Horn:	12 Volt, Automotive-Type
Back-up Alarm:	97 db +/- 4 db at 122 cm (4 ft.)
Air Conditioning:	6,448 Watt (22,000 Btu/Hr) Capacity
Heater:	8,793 Watt (30,000 Btu/Hr) Capacity
Lights:	Turn Indicators, Tail Lights, Work Lights, Stop Lights
Mirrors:	West Coast
Instrumentation:	Oil Pressure, Coolant Temperature, Fuel Gauge, Voltmeter, Hourmeter, and Tachometer





Component Location

ITEM	CONTROL NAME	TYPE	FUNCTION
1	Heater Control Knob	LEFT/RIGHT knob	Clockwise rotation to adjust heat.
2	Blower Fan Control	4-Position knob	Controls blower fan for heater and air conditioning.
3	Air Conditioning Control	LEFT/RIGHT knob	Clockwise rotation to control temperature.



Section 7

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Table 7-7 Torque Specifications For DIN 24, DIN 60, and Inverted Cone Style Coupling Terminations

DIN 24, DIN 60, and Inverted Cone			
Size		Torque	
mm		ft-Lb	
Light Series Tube OD	Heavy Series Tube OD	Min	Max
6		7	15
8		15	26
10	8	18	30
12	10	22	33
14	12	26	37
15	14	30	52
	16	30	52
18	20	44	74
22	25	59	89
28	30	74	111
	38	74	162
35		133	184
42		148	221

Table 7-8 Torque Specifications For 4-Bolt Flange Connections

4-Bolt Flanges		
Dash Size	Bolt Size	Torque
1/16 Inch	Inch	ft-Lb
-8	0.31	17
-12	0.38	26
-16	0.44	43
-20	0.50	65
-24	0.63	130
-32	0.75	220

- Align faces and finger tighten bolts before applying final torque in a pattern. The seal faces must be parallel with even bolt tension to seal properly.
- Torque values apply to bolts which are plated or coated in light engine oil.
- Before assembly lubricate O-Ring with light oil (SAE 10W or 20W).

Table 7-9 Torque Specifications For SAE Male Flareless Assembly (MFA)

SAE Male Flareless Assembly (MFA)
After hand tight rotate nut one full turn (8 flats)

4. Condensation that may build up in the hydraulic system is capable of clogging the filter elements. This can lead to insufficient hydraulic fluid at the pump which will degrade performance. Clogged filter elements can damage the hydraulic pump and other system components.
5. Warm the hydraulic system to 100° F (38° C) and check filter indicators on the return filter and the charge filter. The filters are located on the left side of the broom. If the filter indicators are in the RED, the filter elements should be replaced. See Periodic Maintenance Schedule on page 7-4.

NOTE: Use only genuine LB Performance replacement parts. Other parts could be substandard and cause hydraulic system failure. The use of other than approved filter elements will void the warranty on hydraulic components.

6. Drain and replace hydraulic oil and filter after the first 100 hours of service, and after every 500 hours of service or annually, whichever comes first. Drain the hydraulic oil by removing the plug (**Figure 7-9, 6**). For convenience, a customer supplied drain hose can be attached to drain fluid into a container.
7. The suction strainer (**Figure 7-9, 7**) should be removed and cleaned at the 500 hour service interval or whenever the hydraulic oil is changed.

Hydraulic System Checks

Before each day's use, inspect the Blaw-Knox Model CB-90 Broom for hydraulic leaks. Check weekly to make sure that all hose fittings are secure and tight.

WARNING Hydraulic fluid under pressure will pierce the skin and cause serious injury. Never use your hand to locate hydraulic leaks, use a piece of wood or cardboard to locate leaks. If hydraulic oil has pierced the skin, get immediate medical attention.

WARNING Hydraulic fluid under pressure will pierce the skin and cause serious injury. Always wear eye protection when inspecting for leaks in the hydraulic system.

1. If leaking fluid is found, it is probably on the pressure side of the hydraulic system. Find and repair the leaking component before starting the broom.

2. Leaks on the suction side of the hydraulic system are more difficult to find. This condition is serious since air or dirt introduced into the hydraulic system causes rapid component wear and eventual failure. Some symptoms of suction leakage are:
 - Foaming of hydraulic oil
 - Sluggish hydraulic system operation
 - Unusual noise in hydraulic pump or motor
 - If a suction side leak is suspected, verify that all reservoir connectors and fittings are properly tightened.
 - If the problem persists, replace the defective hose assembly or fitting.

WARNING Temporary repairs to hydraulic hoses will fail and can cause serious injury. Never attempt to repair hydraulic hoses with tape, clamps, or cements.

3. The operator should inspect the broom during operation for hydraulic leaks which may only be noticeable while the unit is running.

Pumps And Motors

The hydraulic pump and motor generally require no regularly scheduled maintenance. Frequent inspection for leaks will indicate the need for service of these components.

Adjusting Priority Relief Valve

The Priority Circuit on the hydraulic pump is set to supply the power steering with approximately 4 GPM (15 LPM) of hydraulic flow. This flow goes to the steering circuit before any other circuit.

The Priority Relief Valve controls the maximum operating pressure for the power steering and brush lift and swing circuits. The Priority Relief Valve is located in the hydraulic pump attached to the rear of the hydrostatic pump on the engine flywheel.

The following are signs that the Priority Relief Valve needs adjusting:

- Total or partial loss of steering functions or hard steering
- Constant noise from hydraulic pump when using steering or brush lift and swing
- Hydraulic oil overheating

If it becomes necessary to readjust the Priority Relief Valve setting, follow these steps:

SYMPTOM	CAUSE	REMEDY
Broom doesn't move with engine running, or moves in one direction only.	Park brake engaged.	Release park brake.
	Broom rotation control valve is bypassing oil at low pressure.	Repair or replace relief valve cartridge(s).
	Damaged hydrostatic pump.	Repair or replace hydrostatic pump.
	Damaged hydrostatic motor.	Repair or replace hydrostatic motor.
Broom jerks when operating in Forward or Reverse.	Fast movement of direction control handle.	Move handle slowly when changing speed and/or direction.
	Park brake not disengaged.	Release park brake. Check for binding park brake cable(s).
	Engine speed set too low.	Run engine at higher RPM.
	Low hydraulic fluid level.	Fill reservoir with correct fluid until visible in sight gauge.
	Air leaking into hydraulic system.	Tighten or replace hoses, fittings and/or filter(s).
	Hydrostatic pump is malfunctioning.	Repair or replace pump.
Engine power output is low.	Operating engine at high altitude.	De-rate engine power output for altitudes above 10,000 feet.
	Air intake piping restricted.	Remove restrictions.
	Air cleaner element dirty.	Clean or replace air cleaner elements.
	Fuel suction line or filter restricted.	Check fuel line for restrictions. Replace fuel filter element(s).
	Fuel return system restricted.	Correct restricted fuel return system.
	Fuel quality poor.	Verify by operating with a known fuel quality.
	Fuel transfer pump malfunctioning.	Replace fuel transfer pump. See engine manufacturer's manual.
	Throttle improperly adjusted.	Adjust throttle controls.
	Injector malfunctioning.	Replace injector. See engine manufacturer's manual.
Engine won't shut off.	Electrical wiring fault supplying power to fuel solenoid when key is in OFF position.	Repair wiring.
	Faulty diode in engine wire harness at alternator.	Check diode wire connection and/or replace diode.
	Injection pump fuel solenoid inoperative.	Check solenoid for defects or foreign material inhibiting proper operations.
	Engine operating on fumes drawn into air intake.	Locate and isolate the source of fumes.
	Low idle set too high.	Set idle to specifications.

KUBOTA ENGINE SHUT DOWN - 1005563 REV B

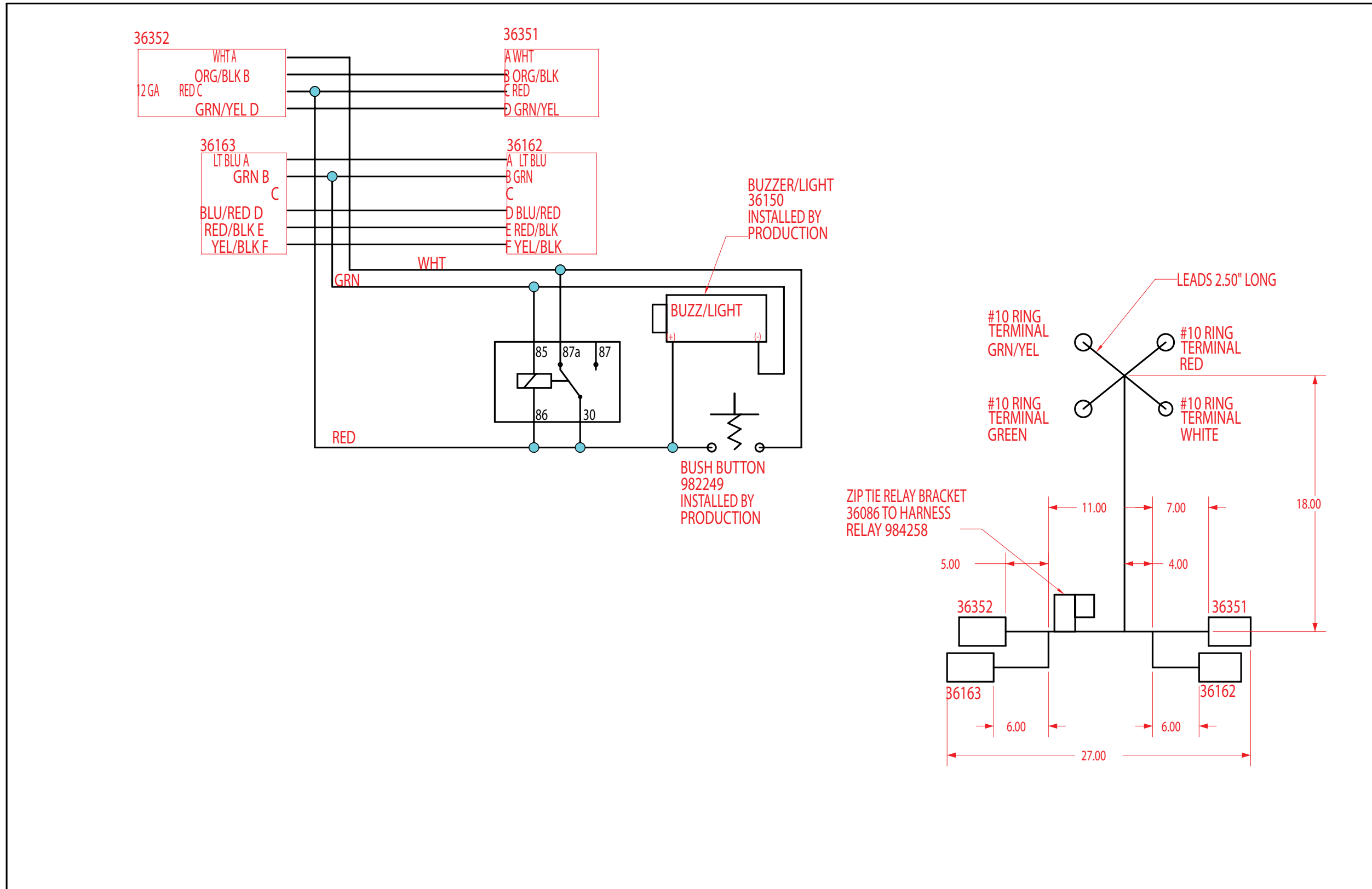


Figure 9-3



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Illustrated Parts List (IPL)

Gearbox B Pad Parts List

Item No.	Part Number	Qty.	Description	Remarks
	35338	1	•GEARBOX B PAD	
1	35338-01	1	••SHAFT	
2	35338-02	8	••GASKET,BLUE SHIM	
3	35338-03	1	••GASKET	
4	35338-04	1	••GEAR,INT HEL LH 15T	(NOT SOLD INDIVIDUALLY)
5	35338-05	1	••GEAR,HEL RH 68T	(NOT SOLD INDIVIDUALLY)
6	35338-06	4	••CUP,BEARING	
7	35338-07	4	••CONE,BEARING	
8	35338-08	2	••SPACER,BEARING	
9	35338-09	1	••PLUG,EXPANSION DISC	(BUY LOCALLY)
-10	35338-10	1	••PLUG,VENTED	(BUY LOCALLY)
11	35338-11	2	••SEAL	
12	35338-12	1	••FLANGE,SAE B,2-HOLE	
-13	35338-13	1	••KEY,OUTPUT SHAFT/GEAR	
-14	35338-14	1	••HOUSING HALF,GEAR BOX,BLIND END	
-15	35338-15	1	••HOUSING HALF,GEAR BOX,MOTOR END	
-16	35338-16	1	••CAP,OPEN	
-17	35338-17	2	••CAP,CLOSED	
-18	35338-18	8	••GASKET,RED SHIM	



Brush Frame Group, QWK Change Parts List

Item No.	Part Number	Qty.	Description	Remarks
	28855	1	BRUSHFRAME GROUP, QWK CHANGE	
-23	80969	1	•WASHER,FLAT,SAE,1.250	
-25	871071601	2	•WASHER,LOCK,#10	
-26	80852	2	•MACH SCR,RH,#10-24X.75	
-28	80142	9	•WASHER,FLAT,USS,.375	
-29	80162	9	•WASHER,LOCK,.375	
-30	80221	9	•CSHH,.375-16X1.00,GR5	
-31	80352	9	•NUT,FLEXLOC,.375-16,FULL,LT	
-32	80295	1	•CSHH,.750-10X5.50,GR5	
-33	80147	1	•WASHER,FLAT,USS,.750	
-34	80357	1	•NUT,FLEXLOC,.750-10,FULL,LT	
-36	80224	4	•CSHH,.375-16X1.25,GR5	
-37	80038	4	•NUT,HEX,.375-16	
-38	80775	4	•CSHH,.438-14X2.75,GR5	
-39	80143	4	•WASHER,FLAT,USS,.438	
-40	80163	4	•WASHER,LOCK,.438	
-41	80039	4	•NUT,HEX,.438-14	
-42	80311	1	•SET S,SQ,.312-18X1.00	
			ATTACHING PARTS	
	TBD		BRUSH GROUPS	
-100	*28766	1	•BRUSH CORE GROUP	
-101	28773	1	••BRUSH CORE,W/M,QWK CHG	
-102	28854	1	••PLATE,BRUSH RING	
-103	81256	4	••CSSBH,.312-18X1.0	
-200	6375P	27	•WAFER,POLY,10X32,W/SPACERS	Qty is per box
-201	37638	A/R	••SPACERS,BRUSH	Qty is per box
-300	6375S	27	•WAFER,STL,10X32,W/SPACERS	
-301	37638	A/R	••SPACERS,BRUSH	
-400	38806	1	•BRUSH,TUBE,32"X90",POLY	
-500	38831	1	•BRUSH,TUBE,32"X90",POLY/STEEL	



Hose Kit, Optional Strike-off Blade Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	38983	1	•HOSE KIT, STRIKE-OFF BLADE	
11	38641	REF	•VALVE,CHECK,,375 MJ,20 PSI	(Part of Strike-Off Blade Group)
101	35499	4	••FITT,STR 06MJ-06MP	
102	953182310	4	••FITT,QD 06 FP,SET	
103	853211085	4	••FITT,90 06MP-06MP	
104	72550-134	2	••HOSE,06,06FJX-06FJX,3000	
105	72550-152	1	••HOSE,06 06FJX-06FJX,3000	
106	72550-160	1	••HOSE,06 06FJX-06FJX,3000	
107	36524-06	2	••HOSE ASSY,3000 PSI,-06 X 29.00	
108	33892	2	••FITT,90 06MJ-06MB	
109	X217	3	••FITT,STR 06MJ-06MB	
110	36490	2	••FITT,TEE 06MJ-06FJX-06MJ	
111	X387	2	••FITT,90 06MJ-06FJX	
112	37536	1	••FITT,STR 06MB-06FJX	



Kubota Engine (continued) Parts List

Item No.	Part Number	Qty.	Description	Remarks
-	38387	1	Rubber Elbow, 90, 2.00	
-	1001166-03	1	Starter	
-	1001166-04	1	Alternator	
-	1001166-05	1	Engine Belt	
-	1001166-09	1	Glow Plugs	
-	1001753	1	Block Heater	
-	1001166-13	1	Coolant Reserve Tank	
-	1001166-42	1	Operators Manual, Kubota Engine	
-	1001166-43	1	Service Manual, Kubota Engine	
-	1001166-44	1	Workshop Manual, Kubota Engine	
-	1001166-45	1	Parts Manual, Kubota Engine	
-	5804	1	Cable, Battery, Neg, 13", Eye/Eye	
-	71796	1	Fitt, 90 02MP-04HB, Crimped, Brass	
-	825510	1	Cable, Battery, Pos, 44", Eye/Post	
-	984493	1	Cplg, 02BSPP x 02FP	
-	986459	1	Plate, Lift, Pump, Mnt	
-	989819	1	Base, Limit SW, M46 Pump	
-	989823	1	PI, Lever, Neutral Start	
-	400020	1	Cable, Battery, Neg, 16", Eye/Post	
-	26166	1	Throttle Cable Assy	
-	1000288	1	Harness, Main, Broom	
-	984909-12	1	Sender, Temp	Datcon Gauges
-	1002184-28	1	Sender, Temp	Faria Gauges
-	33146-6	1	Battery, 12V, 1000 CCA	
-	33356	1	Pipe, Bush, 08MP-06FP, Brass	Pipe Bushing 08MP-06FP
-	34799	1	Clamp, Insulated Band, 1.625	
-	35045	1	Fitt, 45 04MP-04HB, Crimped	Barbed Insert
-	36066	1	Fitt, Tee 02MP-02FP-02FP, STL	Tee Fitting
-	36808	1	Oring, 3.237 ID x .103, SAE 152	
-	37271	1	Loom, Split, Convolutd, .625	
-	37833	1	Pump, Hyd, Piston, 2.8 Cir	
-	37941	1	Switch, Snap Acting, W/Roller	
-	39387	1	Adptr, Rubber 90, 2.00 ID	
-	1001758	1	Mount, Isolator, Axial 480#	
-	36642	1	Pump, Hyd, Gear, 1.8 Cir	SAE A, W/Priority



Radiator/Cooler Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
		1	RADIATOR/COOLER ASSEMBLY	
1	28175	1	•MOUNT,RADIATOR,LH,W/M	
2	28176	1	•MOUNT,RADIATOR,RH,W/M	
3	35423	1	•COOLER,OIL	
4	987698	1	•RADIATOR	
-401	33770	A/R	••RADIATOR CAP	
8	80036	4	•NUT,HEX,,250-20	
9	80038	6	•NUT,HEX,,375-16	
10	80160	4	•WASHER,LOCK,,250	
11	80161	6	•WASHER,LOCK,,312	
12	80162	10	•WASHER,LOCK,,375	
13	80207	6	•CSHH,,312-18X.75,GR5	
14	80219	4	•CSHH,,375-16X.75,GR5	
15	80221	6	•CSHH,,375-16X1.00,GR5	
-16	80963	4	•WASHER,FLAT,SAE,,312	
17	80996	4	•WASHER,FLAT,SAE,,375	
18	81072	4	•CSHH,,250-20X3.50,GR5	
19	910150	1	•VALVE,DRAIN COCK,,250 NPT	
20	28224	2	•CONDENSER HINGE,W/M	



Cab Assembly (2 of 6) Parts List

Item No.	Part Number	Qty.	Description	Remarks
22	35136-21	2	•PLUG,HOLE,.312,FLUSH MT,PLSTC	
24	81275	18	•NUT,ACORN,.250-20,SS	
26	81277	18	•CSBHS,.250-20X.88,SS	
36	36688-16	18	•BUSHING,NYLON	
37	36688-17	18	•GROMMET,.250	
38	36688-18	44	•SEAL,WINDOW	
39	81278	20	•WASHER,FLAT,.250X1.00,SS	
67	80192	4	•CSHH,.250-20X.75,GR5	
70	80140	4	•WASHER,FLAT,USS,.250	
-TBD	985514	1	•KIT,RB48,CAB,INSULATION ATTACHING PARTS	
-13	28342	1	••FLOORMAT,RB48	
-14	36688-12	1	••HEADLINER	
-16	36688-14	2	••FOAM,RIGHT SIDE	
17	36688-15	1	••FOAM,REAR PANEL	



Illustrated Parts List (IPL)

Cab, 2 Door Parts List

Item No.	Part Number	Qty.	Description	Remarks
	28171	1	•CAB, 2 DOOR	(SEE FIGURE 27 FOR NHA)
-1	76003-01	1	••CAB W/M,RH SIDE,RB48	
2	27572	1	••CAB,W/M LH SIDE,RB48	
-3	76005-01	1	••PANEL,REAR	
-4	76008-01	6	••GUSSET,GLASS SUPPORT	
-5	78008-01	1	••ROOF (OPEN ROPS)	
6	76013-01	1	••CROSSBRACE,UPPER REAR	
7	76014-01	1	••CROSSBRACE,UPPER FRONT	
8	76017-01	2	••GUSSET,CENTER	
9	28259	1	••FLOOR	
-11	80959	3	••NUT,WELD,,312-18	
12	269905	2	••EYE,LIFTING,RB48	
-14	28258	1	••PLATE,CONSOLE	
-15	81042	14	••NUT,WELD,,250-20	
-16	81268	6	••NUT,HEX,HEAVY,,375-16 UNFINISH	
17	28243	1	••STAND,STEERING CONSOLE	
-18	21034	1	••MOUNT,ROTATION CONTROL LEVER	
-19	81090	4	••NUT,WELD,,375-16	



Control Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	1000277	1	CONTROL GROUP	
1	989821	1	Group, Wiring, Wescon	Includes items 1-4
2	1000190	1	W/m, Mount, Joystick	
-	36085	1	Relay, 12vdc	Not Shown
-	36086	1	Relay Mount	Not Shown
2a	1000188	1	Rubber Cover	
3	989815	1	Joystick	
4	37941	2	•SWITCH,SNAP ACTING,W/ROLLER	
10	80354	1	•NUT,FLEXLOC,.500-13,FULL,LT	
13	28158	1	•LEVER,BRUSH ROTATION CONTROL	
14	989817	1	•CLEVIS,.250-28	
15	28491	1	•LEVER,PUMP ACTUATOR	
16	36735	1	•GRIP,.250X1.000X4.0	
17	37595	1	•PIN,CLEVIS,.188X1.00	
19	71714	1	•PIN,COTTER,.094X.75	
20	80140	2	•WASHER,FLAT,USS,.250	
21	80192	10	•CSHH,.250-20X.75,GR5	
22	80219	2	•CSHH,.375-16X.75,GR5	
23	80226	2	•CSHH,.375-16X1.50,GR5	
24	80350	10	•NUT,FLEXLOC,.250-20,FULL,LT	
25	80352	5	•NUT,FLEXLOC,.375-16,FULL,LT	
26	80493	2	•NUT,HEX,#6-32	
28	80927	2	•MACH SCR,#6-32X1.25	
29	81188	2	•WASHER,FLAT,USS,#6	
30	851391	1	•SWITCH,TOGGLE,SPST,2-POS	
31	989816	1	•CABLE,PUSH/PULL,54"X3" STROKE	
-32	1002844	1	Harness, Wiring	
34	28549	1	•CONSOLE,SIDE COVER	
35	80423	4	•CSHH,.250-20X.50,GR5	
36	80140	4	•WASHER,FLAT,USS,.250	



Illustrated Parts List (IPL)

Lights And Mirror Group (continued) Parts List

Item No.	Part Number	Qty.	Description	Remarks
-2207	36747	1	•FUSE,4 AMP,ATC	
-2208	70953	1	•CONN,MALE TERMINAL	
-2209	851390204	1	•TERM,RING,16-14 GA,#10 STUD	
-	720110	1	Horn	Not Shown
-	33963	1	Back Up Alarm	Not Shown



Hydraulic Group (3 of 5) Parts List

Item No.	Part Number	Qty.	Description	Remarks
	29085	1	HYDRAULICS GROUP	
21	36648	1	•VLV,MOTOR	
23	983599	1	•MOTOR,HYD,BRUSH DRIVE	Char Lynn
-23	38882	1	•MOTOR,HYD,BRUSH DRIVE	Parker
33	80144	4	•WASHER,FLAT,USS,.500	
35	80161	36	•WASHER,LOCK,.312	
37	80164	4	•WASHER,LOCK,.500	
41	80209	3	•CSHH,.312-18X1.50,GR5	
42	80214	2	•CSHH,.312-18X2.25,GR5	
45	80253	4	•CSHH,.500-20X1.50,GR5	
52	35541	2	•CLAMP,COVER PLATE	
53	38280	4	•CLAMP HALF,1-1/4" HOSE	
-22	39077	1	•HOSE KIT,RB48,2003	
			ATTACHING PARTS	
78	71882	2	••FITT,STR 12MJ-10MB	
80	X365	3	••FITT,90 12MJ-12FJX	
87	34083	2	••FITT,90 12MJ-10MB	
101	36801-110	1	••HOSE,12,12FJX-12RJ90,3000	
121	36801-114	1	••HOSE,12,12FJX-12RJ90,3000	



Illustrated Parts List (IPL)

Description	Part Number	Figure Number	Item Number
CSHH,,250-20X3.50,GR5	81072	10-21	-29
CSHH,,312-18X.50,GR5	80202	10-39	-508
CSHH,,312-18X.75,GR5	80207	10-18	-9
CSHH,,312-18X.75,GR5	80207	10-20	13
CSHH,,312-18X.75,GR5	80207	10-33	9
CSHH,,312-18X1.00,GR5	80208	10-8	44
CSHH,,312-18X1.00,GR5	80208	10-10	-43
CSHH,,312-18X1.00,GR5	80208	10-16	12
CSHH,,312-18X1.00,GR5	80208	10-17	10
CSHH,,312-18X1.00,GR5	80208	10-18	-23
CSHH,,312-18X1.00,GR5	80208	10-33	10
CSHH,,312-18X1.00,GR5	80208	10-34	2
CSHH,,312-18X1.00,GR5	80208	10-40	20
CSHH,,312-18X1.00,GR5	80208	10-46	-40
CSHH,,312-18X1.50,GR5	80209	10-44	41
CSHH,,312-18X2.25,GR5	80214	10-40	21
CSHH,,312-18X2.25,GR5	80214	10-44	42
CSHH,,312-18X4.00,GR8	81010	10-1	-27
CSHH,,375-16X.75,GR5	80219	10-12	-24
CSHH,,375-16X.75,GR5	80219	10-19	12
CSHH,,375-16X.75,GR5	80219	10-20	14
CSHH,,375-16X.75,GR5	80219	10-35	22
CSHH,,375-16X.75,GR5	80219	10-39	-602
CSHH,,375-16X.75,GR5	80219	10-46	-43
CSHH,,375-16X1.00,GR5	80221	10-4	4
CSHH,,375-16X1.00,GR5	80221	10-7	-30
CSHH,,375-16X1.00,GR5	80221	10-18	-19
CSHH,,375-16X1.00,GR5	80221	10-20	15
CSHH,,375-16X1.00,GR5	80221	10-21	-22
CSHH,,375-16X1.00,GR5	80221	10-46	-44
CSHH,,375-16X1.25,GR5	80224	10-7	-36
CSHH,,375-16X1.25,GR5	80224	10-18	-12
CSHH,,375-16X1.50,GR5	80226	10-35	23
CSHH,,375-16X2.00,GR5	80230	10-21	-18
CSHH,,375-16X2.00,GR5	80230	10-41	-25
CSHH,,375-16X3.00,GR5	71620	10-41	-28
CSHH,,375-16X3.00,GR8	81048	10-1	28
CSHH,,375-16X4.75,GR8	80882	10-24	60
CSHH,,375-16X5.00,GR5	71617	10-8	28
CSHH,,375-16X5.00,GR5	71617	10-21	23

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Illustrated Parts List (IPL)

Description	Part Number	Figure Number	Item Number
LEVER,BRUSH ROTATION CONTROL	28158	10-35	13
LEVER,PUMP ACTUATOR	28491	10-35	15
Lid	36727-01	10-8	-1907
LIFT MOUNT,W/M	28717	10-9	23
Light, Brake	39140-22	10-36	10c
Light, Check Engine	39140-21	10-36	10b
Light, Turn Signal	39140-20	10-36	10a
LIGHT,DOME	38840	10-39	8
LIGHT,STROBE,AMBER	38687	10-39	20
LIGHT,TURN SIGNAL,AMBER	6161	10-39	1
LIGHT,TURN/BRAKE,RED	851342007	10-39	4
LIGHTS AND MIRROR GROUPS	28246	10-39	
LOCK,BAR,RAISED	29121	10-13	37
LOCK,HYD CYLINDER	28948	10-10	48
Loom, Split, Convoluted, .625	37271	10-15	-
LOOM,SPLIT,CONVOLUTED,.750	71870	10-41	31
LOUVER DOOR	38653-02	10-22	5
LOUVERS	36745-17	10-22	2
LOUVERS	36745-16	10-22	25
MACH SCR,#6-32X1.25	80927	10-35	28
MACH SCR,PH,#10-32X1.00	80891	10-8	36
MACH SCR,RH,#10-24X.50	871052400	10-18	-16
MACH SCR,RH,#10-24X.50	871052400	10-31	9
MACH SCR,RH,#10-24X.75	80852	10-7	-26
MANIFOLD	38814-01	10-9	-803
MANIFOLD	38814-01	10-45	-1601
MANIFOLD,HYD,2 STA	1002843	10-9	8
MANIFOLD,HYD,2 STA	1002843	10-12	34
MANIFOLD,HYD,2 STA,D03	1002843	10-45	16
MASTER CYL,BRAKE	38314	10-41	1
MIRROR GROUP, 7x16 WEST COAST	25703	10-39	6
MIRROR,WEST COAST,7X16	38057	10-39	-601
MOTOR MOUNT,W/M	28931	10-12	4
MOTOR,HYD,BRUSH DRIVE	983599	10-44	23
MOTOR,HYD,BRUSH DRIVE	38882	10-44	-23
MOTOR,HYD,LSHT,8.0 DISP	38122	10-12	9
MOTOR,HYD,M46 VAR,2.8/1.45 CIR	35330	10-1	8
MOTOR,HYD,POWER STEERING	39045	10-42	24
MOTOR,WINDSHIELD WIPER	151170	10-26	40
MOTOR,WINDSHIELD WIPER	151170	10-28	40

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