



DL13-18 Owner's Manual



DL TRUCK LOADER VACUUM Owner's Manual

DL1301H, DL1401SE, DL1801V, DL1801VE
Beginning Serial #: 102715001

Accessories

INTAKE

HOSE REPLACEMENT KIT



Standard on DL units.
8" x 10' (203mm x 3.0m)
10" X 10' (254mm x 3.0m)

8" Hose P/N 811244
10" Hose P/N 791033

EXHAUST

*EXHAUST HOSE KIT



7" x 5' (203mm x 1.5m) flexible hose increases exhaust distance.

7" Flexible Hose P/N 812300

HANGING EXTENSION KIT



Allows the Debris loader to hang from a vertical side panel. (Not for use in transport.)

P/N 812260

*EXHAUST EXTENSION KIT



Increases height of exhaust elbow
*The Exhaust extension and Exhaust hose kit are not compatible with each other.

P/N 812273

SWING AWAY HITCH



Allows the DL to be attached to a hitch and swung out for easier cleanup.

Swing away-SAH34
Stake body swing away-SBSA6

Original Instructions

IMPORTANT- READ CAREFULLY BEFORE USE AND KEEP FOR FUTURE REFERENCE



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Go to <http://www.billygoat.com> for French-Canadian translations of the product manuals.

Visitez <http://www.billygoat.com> pour la version canadienne-française des manuels de produits



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SPECIFICATIONS

	DL1301H	DL1401SE	DL1801V	DL1801VE
Engine: HP	13 (9.69 kW)	14 (10.4 kW)	18 (13.4 kW)	18 (13.4 kW)
Engine: Model	GX390U1QA2	EX400DE5030	3564420186EI	3564470288B1
Engine: Type	HONDA	SUBARU	BRIGGS AND STRATTON	BRIGGS AND STRATTON
Engine: Fuel capacity	6.9 qt. (6.5 L)	7.4 qt. (7.0 L)	9qt. (8.52 L)	9qt. (8.52 L)
Engine: Oil capacity	1.16 qt. (1.1 L)	1.3 qt. (1.2 L)	1.75 qt. (1.66 L)	1.75 qt. (1.66 L)
Total unit weight:	207 lbs (93.9 kg)	267 lbs (93.9 kg)	267 lbs (121.1 kg)	267 lbs (121.1 kg)
Max operating slope	25 ⁰	25 ⁰	25 ⁰	25 ⁰
Overall height	48" (1.2m)	48" (1.2m)	48" (1.2m)	48" (1.2m)
Overall width	27" (0.69m)	27" (0.69m)	27" (0.69m)	27" (0.69m)
Overall length	31" (.79 m)	31" (.79 m)	31" (.79 m)	31" (.79 m)
In compliance with 2000/14/EEC standards	121 dB(a)	121 dB(a)	121 dB(a)	121 dB(a)
Sound at operators position	105 dB(a)	105 dB(a)	105 dB(a)	105 dB(a)
Vibration at operator position	0.02g	0.02g	0.02g	0.02g

Battery (Electric Models Only)

	Model	CCA @ 0° F	AH Rating	Length	Width	Height
DL14	ETX12	180	10	5.9" (150mm)	3.4" (86mm)	5.2" (132mm)
DL18	EXT16	325	19	6.9" (174.6mm)	4" (101.6mm)	6.13" (155.6 mm)
Battery not included with machine						



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SOUND



SOUND LEVEL 105 dB(a) at Operator Position

121dB

Sound tests were conducted in accordance with 2000/14/EEC, and were performed on 6/18/07 under the conditions listed below.

⚠ Sound power level listed is the highest value for any model covered in this manual. Please refer to serial plate on the unit for the sound power level for your model.

General Conditions:	Cloudy
Temperature:	74°F (23.2°C)
Wind Speed:	3.7 mph (21.6 kmh)
Wind Direction:	South
Humidity:	83.5%
Barometric Pressure:	29.8 Hg (756 mm Hg)

VIBRATION DATA

VIBRATION LEVEL 0.02g

Vibration levels at the operator's handles were measured in the vertical, lateral and longitudinal directions using calibrated vibration test equipment. Tests were performed on 7-10-07 under the conditions listed below.

General Conditions:	Sunny
Temperature:	86°F (17°C)
Wind Speed:	13 mph (20 kph)
Wind Direction:	North
Humidity:	49%
Barometric Pressure:	29.8"Hg (756mm Hg)



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INSTRUCTION LABELS

The labels shown below were installed on your BILLY GOAT® DL Vacuum. If any labels are damaged or missing, replace them before operating this equipment. For your convenience in ordering replacement labels, part numbers are included in the Illustrated Parts Lists. The correct position for each label may be determined by referring to the Figure and Item numbers shown.



DANGER KEEP HANDS AND FEET AWAY
ITEM #18 P/N 400424



EAR EYE BREATHING
ITEM# 31 P/N 890254



WARNING SECURE
ITEM#62 P/N 790232



DANGER FLYING DEBRIS
ITEM #61 P/N 810736



READ OWNERS MANUAL
ITEM #30 P/N 830301



EXPLOSIVE FUEL
ITEM #32 P/N 400268



LABEL SPARK ARRESTOR
ITEM #15 P/N 100252



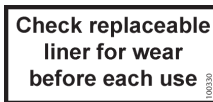
DL INSTRUCT/WARN
ITEM #28 P/N 790142



WARNING ENGINE OVERHEAT
ITEM #14 P/N 811215



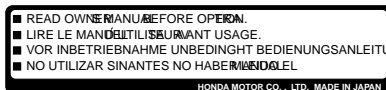
SECURE NOZZLE
ITEM #59 P/N 790232



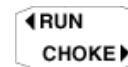
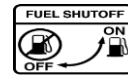
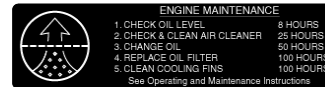
LABEL WARNING LINER
ITEM #88 P/N 100330

ENGINE LABELS

HONDA



B&S VANGUARD





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PACKING CHECKLIST

Your Billy Goat is shipped from the factory in one carton and is completely assembled except for the exhaust elbow, nozzle, handle loop for nozzle, hose booms, hose bands, hose coupler, hose clamps and related hardware.



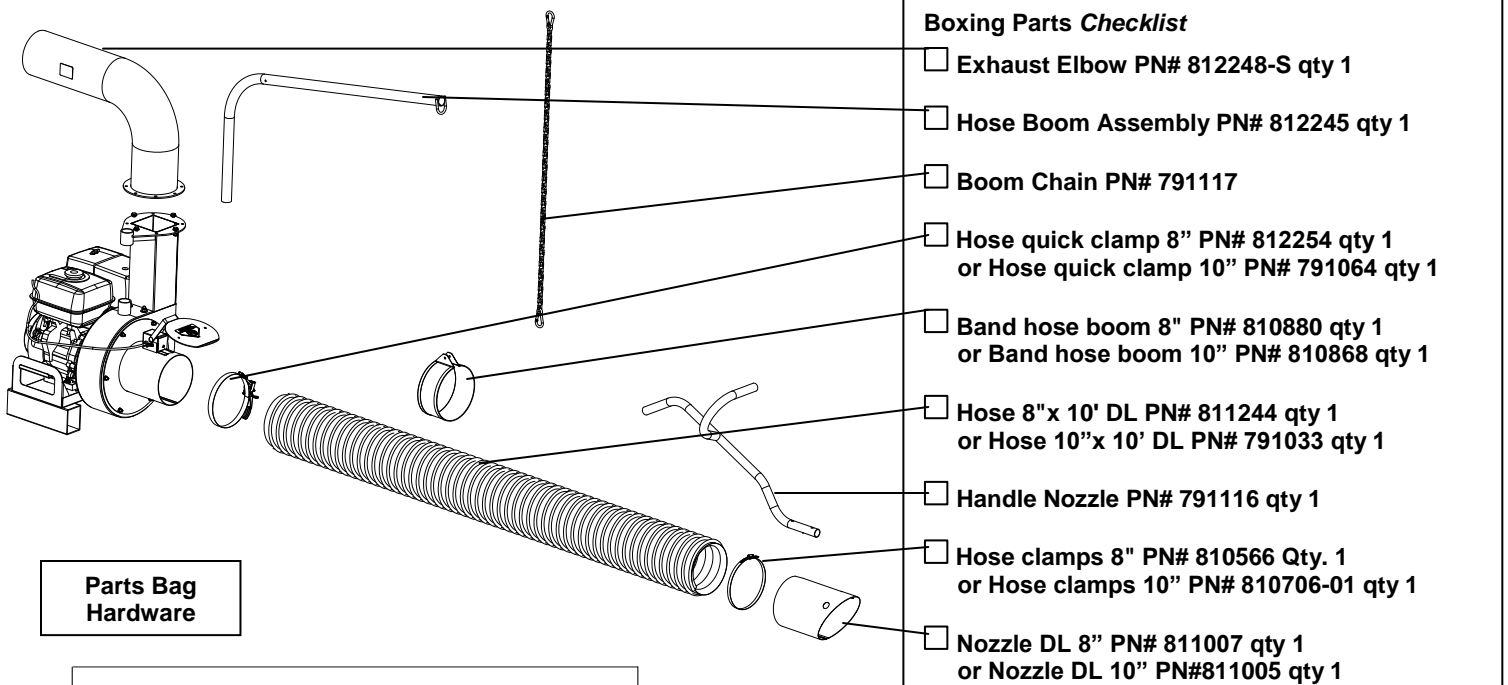
READ all safety instructions before assembling unit.
TAKE CAUTION when removing the unit from the box.



PUT OIL IN ENGINE BEFORE STARTING

PARTS BAG & LITERATURE ASSY

Warranty card P/N- 400972, Owner's Manual P/N-812379, General Safety and Warnings Manual P/N-100294, Declaration of Conformity P/N-812406.



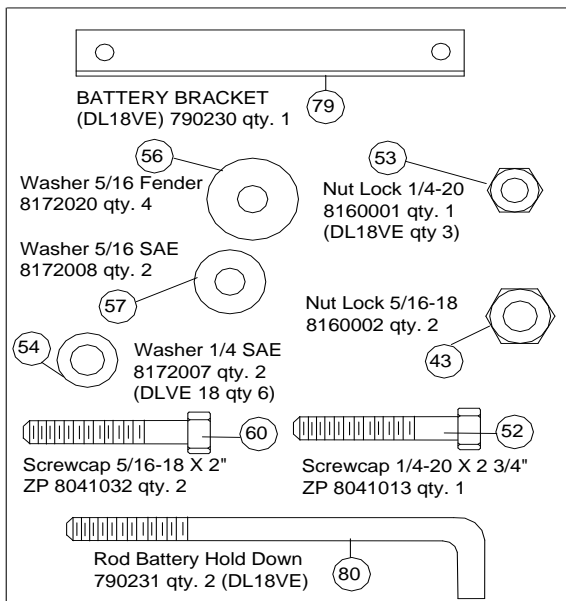
Boxing Parts Checklist

- Exhaust Elbow PN# 812248-S qty 1
- Hose Boom Assembly PN# 812245 qty 1
- Boom Chain PN# 791117
- Hose quick clamp 8" PN# 812254 qty 1
or Hose quick clamp 10" PN# 791064 qty 1
- Band hose boom 8" PN# 810880 qty 1
or Band hose boom 10" PN# 810868 qty 1
- Hose 8"x 10' DL PN# 811244 qty 1
or Hose 10"x 10' DL PN# 791033 qty 1
- Handle Nozzle PN# 791116 qty 1
- Hose clamps 8" PN# 810566 Qty. 1
or Hose clamps 10" PN# 810706-01 qty 1
- Nozzle DL 8" PN# 811007 qty 1
or Nozzle DL 10" PN#811005 qty 1

Engine

- Honda 13 HP
- Subaru 14 HP
- Vanguard 18 HP
- Vanguard Electric 18 HP
- Parts Bag & Literature Assy (DL13-18) P/N# 812252-S
- Parts Bag & Literature Assy (DL1801VE) P/N# 812383

Parts Bag Hardware





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ASSEMBLY

NOTE: Items in () can be referenced in the Parts Illustration and Parts List on pages 13-15.

1. **SECURELY ATTACH** unit to the bed of a truck, trailer, or use the hanging brackets, so that the exhaust discharges into an enclosed container. *NOTE:* This unit must be securely mounted to the bed of a truck or to a trailer before operating. (See Fig. 1 below to assemble.)
2. **ATTACH** hose to housing intake, using hose quick clamp (item 8) making sure to place the safety switch under the clamp (see "Interlock System" page 9). Then slide the hose onto the housing intake and place the shut off switch under the clamp. Make sure the shut off switch is pressed in or the vacuum will not start, and clamp the hose to the intake.
3. **ASSEMBLE** nozzle handle (item 11), to nozzle (item 10), using screws (item 60), fender washers (item 56), washers (item 57) and lock nuts (item 43).
4. **ATTACH** assembled nozzle to hose using hose clamp (item 9). Before tightening hose clamp, position nozzle handle upward when hose is stretched to prevent twisting the load on hose assembly during operation.
5. **ATTACH** the hose boom (item 5) by sliding the boom through the ring on the top of the housing and resting it in the cup on the top of the housing.
6. **ASSEMBLE** hose band (item 13) around hose and secure chain between flanges of the hose band using capscrew (item 52), washers (item 54), and lock nut (item 53). To adjust the hose boom height see page 11).
7. **SECURELY ATTACH** exhaust elbow (item 4) to the housing (see "MOUNTING EXHAUST ELBOW" below) with the hardware located on the exhaust chute.
8. **INSTALL BATTERY (Electric Models Only)** ⚠ Due to the location of the battery it is recommended that only the specified battery be used on the DL1401SE and DL1801VE. This is due to the heat generated by the muffler and the location of the battery. Using the wrong size battery could result in premature failure, damage to unit or personal injury. The battery needs to be within the specification listed on page 3. The EXT 12 or equivalent is recommended for the DL14, and the EXT 16or equivalent for the DL18VE (see page 3 for battery specifications).
9. **(Electric Models Only)** Attach the battery cables to the battery and secure it to the unit with the hold down strap. The positive terminal should be closest to the housing to ensure that the cables attach properly.

MOUNTING MAIN UNIT

GENERAL: Unit must be securely mounted to a trailer, truck bed, hanging brackets, or other similar surface before use. Do not use this unit in a freestanding position. Unit is not stable until it has been secured in place.

Secure unit by bolting through the base of the unit and through the mounting surface using 3/8" dia. bolts, with washers and locking nuts (see Fig. 1).

MOUNTING EXHAUST ELBOW (See Fig. 2)

NOTE: This process is easier with two people, one to support the exhaust elbow and one to attach plates and hardware.

1. Remove the bolts (item 50), washers (item 51), and nuts (item 41) from the parts bag.
2. Place the elbow on top of the housing chute and line up with the holes in the elbow with the housing in the desired position you want the exhaust to go.
3. Secure the elbow to the housing with the hardware provided. Make sure the hardware is properly tightened.

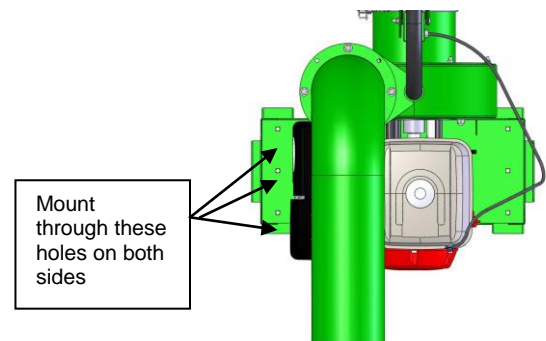


Fig. 1



Fig. 2



OPERATION

VACUUMING OPERATION

IMPORTANT: With the machine off and spark plug disconnected check the condition of the replaceable liner before every use and replace if necessary.

EXHAUST DIRECTION & DISTANCE: Exhaust direction and distance are controlled by the rotation of the exhaust elbow. Typically debris is aimed to discharge to the rear of the container. The direction of discharge is adjusted by rotating the exhaust elbow on the housing and securing with the hardware provided. *NOTE:* Elbow is heavy. Use caution when adjusting. Never stand directly under the elbow while adjusting direction of exhaust. Never direct exhaust into an area where bystanders may cross the path of the debris.

INTAKE OPERATION: With fully assembled machine running, move the nozzle in sweeping motions over debris. Always allow air to flow into the nozzle along with the debris. Do not completely block the nozzle when vacuuming, it will reduce performance, and increase clogging (See Fig. 3). For removal of heavier debris, or debris that is stuck to the ground, rock nozzle forward to concentrate suction power around the debris (See Fig. 4).

ADJUSTING HOSE BOOM

Properly adjusting the boom will prevent most hose clogs from occurring and will maximize vacuum performance by keeping the hose straight and perpendicular to the housing (See Fig. 5). Height adjustments are made by raising or lowering one of the attachment links to a different area on the chain.

UNCLOGGING A CLOGGED HOSE

With engine running and unit secured to a trailer, truck bed, or other similar surface, fully stretch hose in a straight line to dislodge the clog. If the clog will not clear, turn unit off, and allow engine to come to a complete stop. Remove hose and manually clear the hose clog. *NOTE:* The clogged debris may be sharp. Always wear durable gloves when removing clogs.

UNCLOGGING A CLOGGED HOUSING OR EXHAUST ELBOW

Turn engine off and wait for impeller to come to a complete stop. Disconnect spark plug wires and battery cables. Remove the hose from the housing and determine where the clog is located. If possible clear the clog through the intake opening. It may require removal of the intake adaptor (item 16) to allow access to clear the housing. If clog is in the elbow, carefully remove the elbow. Remove elbow by removing the bolts and nuts on the elbow clamp so that the plates can be removed. *NOTE:* Elbow is very heavy. Do not stand directly under elbow during removal. **Danger**, the clog may contain sharp materials. Wearing durable gloves, clear the clog. Reconnect spark plug wire.

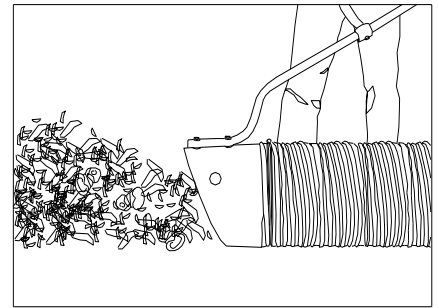


Fig. 3

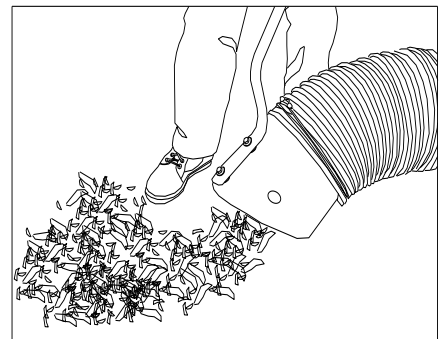


Fig. 4

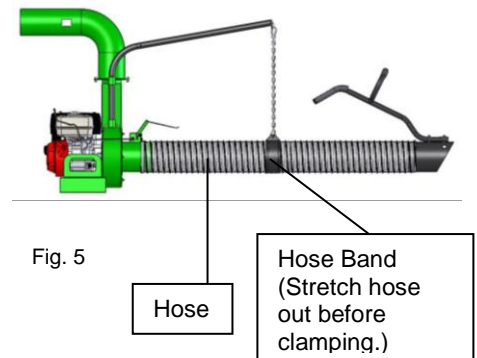


Fig. 5

*****TIPS*****

HOSE CARE

To increase hose life, periodically rotate hose and reposition nozzle and coupler on front plate of unit. This increases hose life by keeping hose from wearing only on one side.

Keep hose as straight as possible and avoid sharp bends during operation for best pick-up and to avoid clogs. Never drag hose. Always remove and store hose before transporting unit. Store hose straight and flat to maintain flexibility for next use.

THE HOSE IS A REPLACEABLE WEAR ITEM.



MAINTENANCE

PERIODIC MAINTENANCE

Periodic maintenance should be performed at the following intervals:

Maintenance Operation	Every Use	Every 5 Hours (Daily)	Every 10 Hours	Every 25 Hours
Inspect for loose, worn or damaged parts		●		
Check engine oil and air filter	●			
Check removable liner	●			
Clean hose	●			
Engine (See Engine Manual)				
Inspect battery for damage or leak			●	
Keep engine free of debris	●			
Check battery terminal for corrosion				●
Check for excessive vibration		●		

IMPELLER REMOVAL

1. Wait for engine to cool and disconnect spark plug wires from the engine.
2. Remove the hose from the unit.
3. Unattach the hose from boom assembly.
4. Remove the intake housing assembly (item 16) by removing six locknuts (item 44). Be careful to place intake assembly to the side without putting excess strain on safety switch wire harness.
5. Remove impeller bolt (item 34), lock washer (item 35), and spacer (item 37) using 5/8" socket and impact wrench (see Fig. 6).
6. Once bolt is removed impeller should slide out freely. If the impeller doesn't slide off freely use penetrating oil and work the hub off using a pry bar. Do not use the pry bar on the impeller plate.
7. When impeller is free of the engine shaft, align impeller with the opening and pull it straight out of the housing.
8. Using a new impeller bolt, washer, and lock washer, install new impeller in reverse order.
NOTE: Be sure that the key is in place on the engine shaft before installing impeller.
9. Tighten impeller bolt. Torque the impeller bolt to [33-38 Ft. Lbs. (45-52 N.m)].
10. Repeat steps 2 through 5 in reverse order.
11. Reinstall spark plug wires.

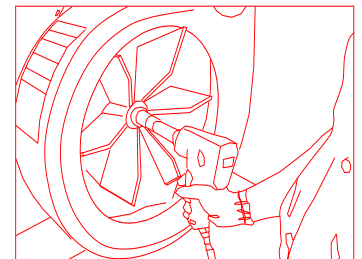


Fig. 6

INTERLOCK SYSTEM

With hose coupler installed (See Fig. 8) the switch is open and engine is not grounded out, allowing engine to run.

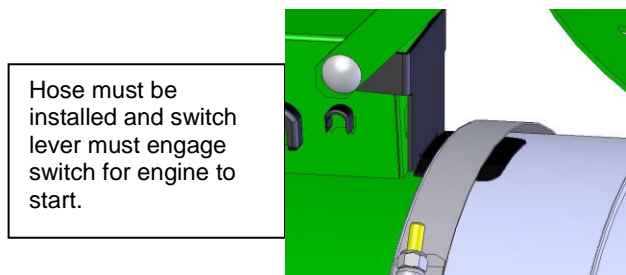
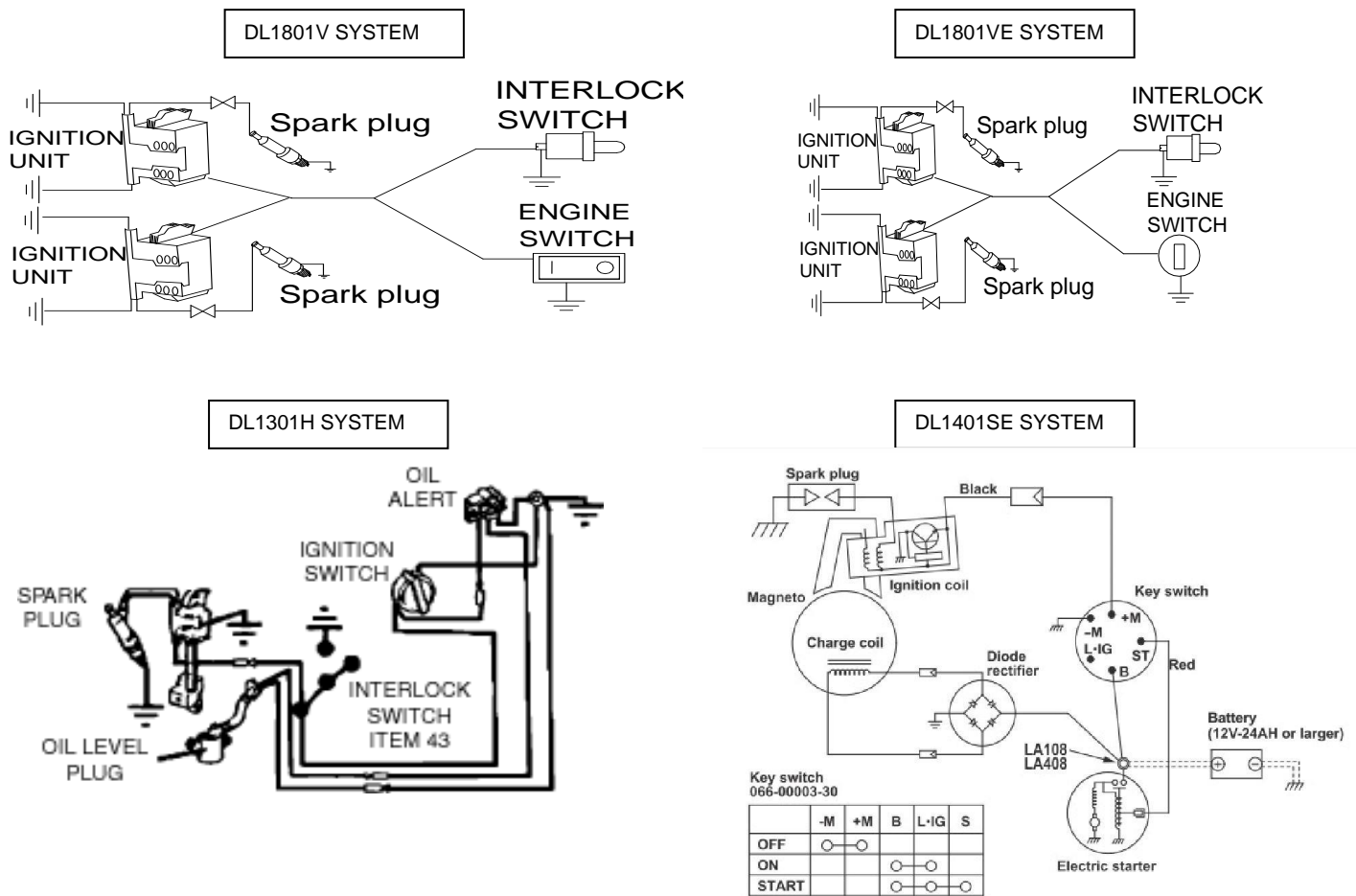


Fig. 8



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WIRING DIAGRAM



BATTERY CARE (For Electric-Starting Models)

Proper care can extend the life of a battery. Follow these recommendations to ensure your battery's best performance and long life:

- Do not allow the battery charge to get too low. If the machine is not used, charge the battery every 4 – 6 weeks. Operate the engine for at least 45 minutes to maintain proper battery charge.
- Store an unused battery in a dry area that does not freeze.
- Do not charge an already charged battery. In theory, you cannot overcharge our battery with a trickle charger; however, when a battery is fully charged and the charger is still on, it generates heat that could be harmful to the battery. A fully charged battery will read 12V-13.2V with a voltmeter.
- Do not continue to crank your engine when the battery charge is low.

CHARGING THE BATTERY

Operate the engine for at least 45 minutes to maintain proper battery charge. If the battery loses its charge, you will need to use a trickle charger to recharge it. **Caution:** The charger should have an output of 12 volts at no more than 2 amps. Using a charger with higher amps will cause significant damage to the battery.

- At 1 amp, the battery may need charging for as long as 48 hours.
- At 2 amps, the battery may need charging for as long as 24 hours.

NOTE: Using the Recoil Starter and then running the engine will not recharge a dead or significantly discharged battery.

NOTE: WHEN YOU ARE FINISHED CHARGING THE BATTERY, disconnect the charger from the outlet first, then disconnect the battery charger wires from the battery. If you leave the battery charger wires connected to the battery, the battery will discharge itself back into the charger.



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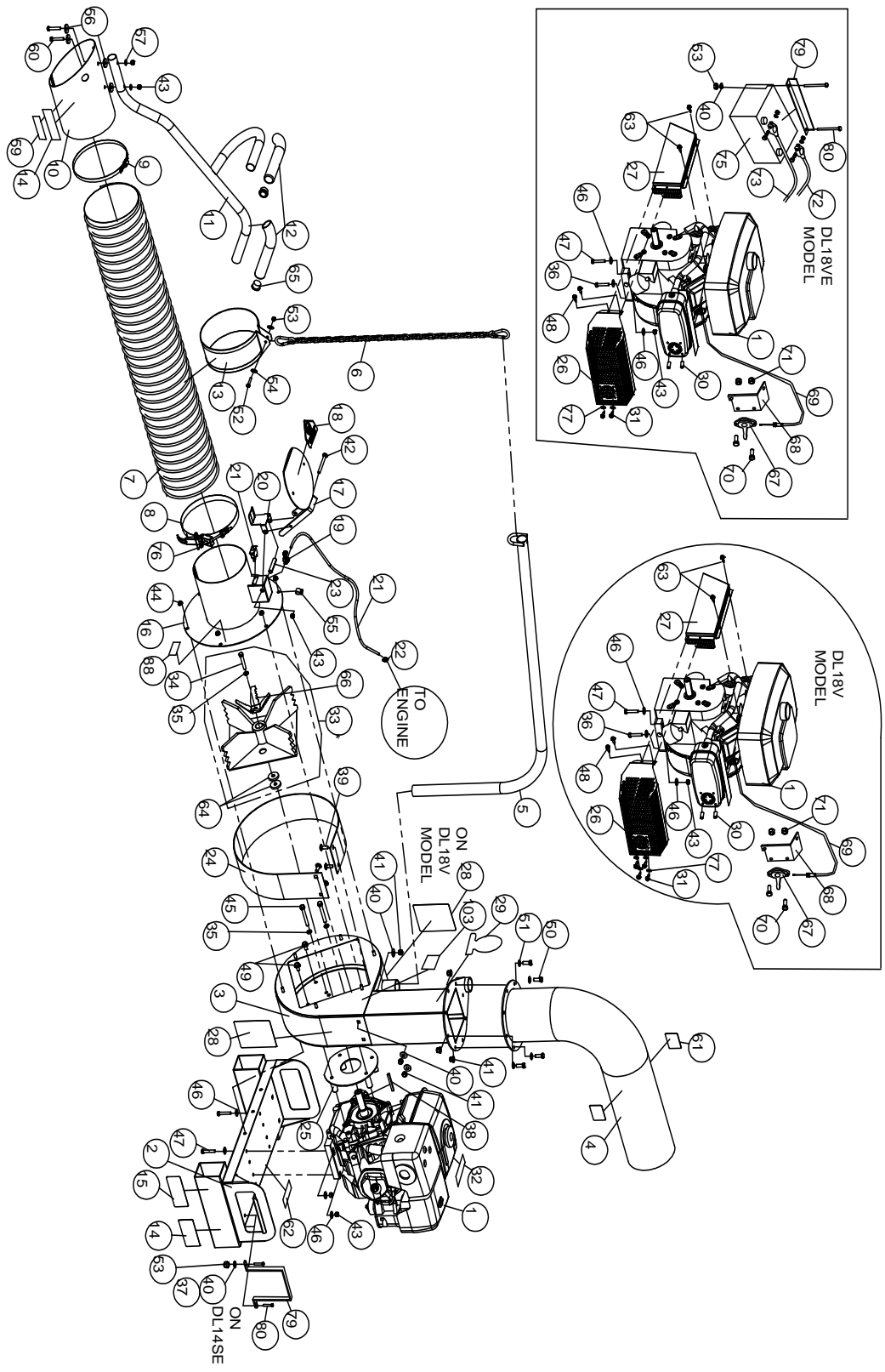
TROUBLESHOOTING

Problem	Possible Cause	Solution
Abnormal vibration	Loose or out of balance impeller or loose engine.	Check impeller and replace if necessary. Check engine.
Will not vacuum or has poor vacuum performance	Nozzle buried in debris. Clogged hose or exhaust. Excessive quantity of debris.	Withdraw nozzle from debris pile. Unclog hose or exhaust (see pg. 8). Allow air to feed debris.
Engine will not start	Throttle & / or stop switch in off position. Out of gasoline. Bad or old gasoline. Spark plug wire disconnected. Harness wire is bad or disconnected from interlock switch. Hose not installed, allowing interlock wire to ground. Dirty air cleaner.	Check stop switches, throttle, and gasoline. Connect spark plug wire. Clean or replace air cleaner. Install hose coupler securely to the unit and check whether interlock switch is engaged by lever. Check harness wire connection and replace if necessary.
Engine is locked, will not pull over	Debris locked against impeller. Engine problem.	See pg.8, "CLEARING A CLOGGED IMPELLER". Contact an engine servicing dealer for engine problems.



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DL13-18 PARTS DRAWING





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DL13-18 PARTS LIST

ITEM NO.	DESCRIPTION	DL1301H PART NO.	QTY	DL1401SE PART NO.	QTY	DL1801V PART NO.	QTY	DL1801VE PART NO.	QTY
1	ENGINE HONDA	430366	1	-	-	-	-	-	-
	ENGINE VANGUARD	-	-	-	-	812240	1	-	-
	ENGINE VANGUARD ELECTRIC	-	-	-	-	-	-	812241	1
	ENGINE SUBARU ELECTRIC	-	-	812369	1	-	-	-	-
2	BASE ENGINE WA	812100-S	1	812100-S	1	812100-S	1	812100-S	1
3	HOUSING WA DL12/13 W/LABELS	812216-S	1	-	-	-	-	-	-
	HOUSING WA DL18 W/LABELS	-	-	812101-S	1	812101-S	1	812101-S	1
4	ELBOW ASSY 7" DL	812248-S	1	812248-S	1	812248-S	1	812248-S	1
5	BOOM WA DL	812245	1	812245	1	812245	1	812245	1
6	CHAIN HOSE HANG DL	791117	1	791117	1	791117	1	791117	1
7	HOSE 8" X 10"	811244	1	-	-	-	-	-	-
	HOSE 10" X 10"	-	-	791033	1	791033	1	791033	1
8	CLAMP QUICK RELEASE 8"	812254	1	-	-	-	-	-	-
	CLAMP QUICK RELEASE 10"	-	-	791064	1	791064	1	791064	1
9	CLAMP HOSE 8"	810566	1	-	-	-	-	-	-
	CLAMP HOSE 10"	-	-	810706-01	1	810706-01	1	810706-01	1
10	NOZZLE 8" STEEL FORMED W/LABELS	811007-S	1	-	-	-	-	-	-
	NOZZLE 10" STEEL FORMED W/LABELS	-	-	811005-S	1	811005-S	1	811005-S	1
11	HANDLE NOZZLE WA DEBRIS LOADER	791116	1	791116	1	791116	1	791116	1
12	GRIP 1 1/4 I.D. X 9.5 LONG	440146	2	440146	2	440146	2	440146	2
13	BAND HOSE BOOM 8" FORMED	810880	1	-	-	-	-	-	-
	BAND HOSE BOOM 10" FORMED	-	-	810868	1	810868	1	810868	1
14	LABEL WARNING ENGINE OVERHEAT	811215	2	811215	2	811215	2	811215	2
15	LABEL SPARK ARRESTOR	100252	1	100252	1	100252	1	100252	1
16	PLATE FRONT WA DL 8"	812104-S	1	-	-	-	-	-	-
	PLATE FRONT WA DL 10"	-	-	812103-S	1	812103-S	1	812103-S	1
17	FLAPPER WA 8" W/LABELS	812230-S	1	-	-	-	-	-	-
	FLAPPER WA 10" W/LABELS	-	-	791102-S	1	791102-S	1	791102-S	1
18	LABEL WARNING OPEI	400424	1	400424	1	400424	1	400424	1
19	STRAIN RELIEF HEYCO 1244	500282	1	500282	1	500282	1	500282	1
20	LEVER HOSE SWITCH	791068	1	791068	1	791068	1	791068	1
21	SWITCH AND HARNESS DL ASSY	791130	1	791130	1	791130	1	791130	1
22	CONNECTOR TAP IN SQUEEZE	810673	1	810673	1	-	-	-	-
23	SPACER 3/8" X 2 1/2"	900503	1	900503	1	900503	1	900503	1
24	LINER DL12/13	812221	1	-	-	-	-	-	-
	LINER DL18	-	-	812214	1	812214	1	812214	1
25	PLATE ENGINE MOUNT DL12/13	812235	1	812235	1	-	-	-	-
	PLATE ENGINE MOUNT DL18	-	-	-	-	812238	1	812238	1
26	GUARD MUFFLER DL18	-	-	-	-	812410	1	812410	1
27	GUARD MANIFOLD DL18 SW	-	-	-	-	812243	1	812243	1
28	LABEL DL INSTRUCTION/WARNING	790142	1	790142	1	790142	1	790142	1
29	LABEL LOGO DL12/13/18	812213	1	812213	1	812213	1	812213	1
30	SPACER CONTROL LIFT	-	-	-	-	850198	4	850198	4
31	SCREW SN #10 X 1" TYPE A SLOT HWH	-	-	-	-	8122066	4	8122066	4
32	LABEL WARNING FUEL EN/SP	-	-	-	-	100261	1	100261	1
33*	IMPELLER ASSY (ITEM 66 NOT INCLUDED)	812257-S	1	-	-	-	-	-	-
	IMPELLER ASSY (ITEM 66 NOT INCLUDED)	-	-	810930	1	810930	1	810930	1
34	SCREWCAP 3/8"-24 X 2 3/4" GR 8. W/PATCH	790167	1	-	-	-	-	-	-
	SCREWCAP 3/8"-24 X 2 1/4" GR 8.	-	-	-	-	810932	1	810932	1
	SCREWCAP 3/8"-24 X 3" GR 8. W/PATCH	-	-	440237	1	-	-	-	-
	TORQUE 33-38 FT LBS. (45-52 N.m)								
35	WASHER LOCK 3/8"	8177012	5	8177012	5	8177012	5	8177012	5



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ITEM NO.	DESCRIPTION	DL1301H PART NO.	QTY	DL1401SE PART NO.	QTY	DL1801V PART NO.	QTY	DL1801VE PART NO.	QTY
36	SCREWCAP 5/16-18 X 2" HCS ZP	-	-	-	-	8041032	2	8041032	2
37	WASHER 1/4" ZP	-	-	8171002	2	-	-	-	-
38	KEY 1/4 SQ X 2 3/4"	9201125	1	-	-	9201125	1	9201125	1
	KEY 1/4 SQ X 3 1/4"	-	-	9201128	1	-	-	-	-
39	BOLT CARRIAGE 3/8 -16 X 1" ZP	8024058	4	8024058	4	8024058	4	8024058	4
40	WASHER 3/8 FLAT CUT	8171004	4	8171004	6	8171004	4	8171004	4
41	NUT LOCK 3/8-16 HEX ZP	8160003	8	8160003	8	8160003	8	8160003	8
42	BOLT CARRIAGE 5/16" - 18 X 3 1/2" ZP	8024050	1	8024050	1	8024050	1	8024050	1
43	NUT LOCK 5/16-18 HEX ZP	8160002	7	8160002	7	8160002	7	8160002	7
44	NUT FLANGE 5/16-18 HEX ZP	350346	6	350346	6	350346	10	350346	10
45	SCREWCAP 3/8-16 X 3" HCS ZP	8041058	4	-	-	-	-	-	-
	SCREWCAP 3/8-16 X 1 3/4" HCS ZP	-	-	8041053	4	8041053	4	8041053	4
46	WASHER 5/16 FLAT ZP	8171003	8	8171003	8	8171003	8	8171003	8
47	SCREWCAP 5/16-18 X 1 3/4" HCS ZP	8041031	4	8041031	4	8041031	2	8041031	2
48	SCREW SM 1/4 X 3/4" TYPE AB HX WF	-	-	-	-	890359	2	890359	2
49	HEX WASHER FACE BOLT 3/8-16 X 3/4"	791080	3	791080	3	791080	3	791080	3
50	SCREWCAP 3/8-16 X 1" HCS ZP	8041050	4	8041050	4	8041050	4	8041050	4
51	WASHER 3/8 SAE	8172009	8	8172009	8	8172009	8	8172009	8
52	SCREWCAP 1/4"-20 X 2 3/4" HCS ZP	8041013	1	8041013	1	8041013	1	8041013	1
53	NUT LOCK 1/4-20 HEX ZP	8160001	1	8160001	3	8160001	1	8160001	3
54	WASHER 1/4-20 HEX ZP	8172007	2	8172007	2	8172007	2	8172007	2
55	CLAMP HOSE FUEL LINE	791070	2	791070	2	791070	2	791070	2
56	WASHER FENDER 5/16	8172020	4	8172020	4	8172020	4	8172020	4
57	WASHER 5/16 SAE	8172008	2	8172008	2	8172008	2	8172008	2
59	LABEL SECURE NOZZLE	790301	1	790301	1	790301	1	790301	1
60	SCREWCAP 5/16" - 18 X 2"	8041032	2	8041032	2	8041032	2	8041032	2
61	LABEL FLYING DEBRIS	810736	2	810736	2	810736	2	810736	2
62	WARNING SECURE	790232	1	790232	1	790232	1	790232	1
63	BOLT 1/4"-20 X 1/2" SER FLANGE	-	-	-	-	812381	2	812381	2
64	SPACER 1" ID X 2" OD X 0.265 THK	830113	2	-	-	-	-	-	-
	SPACER 1" ID X 2" OD X 0.890 THK	-	-	830112	1	-	-	-	-
65	PLUG TUBE INSERT 1.25 OD	791056	2	791056	2	791056	2	791056	2
66	DEBRIS REDUCER DL12/13/18	812283	1	812283	1	812283	1	812283	1
67	THROTTLE CONTROL BLOWER	-	-	-	-	440013	1	440013	1
68	BRACKET MOUNT THROTTLE CONTROL	-	-	-	-	812280	1	812280	1
69	CABLE THROTTLE DL18	-	-	-	-	812281	1	812281	1
70	SCREW MACH FLAT HD PHIL #10-24	-	-	-	-	830514	2	830514	2
71	NUT LOCK #10-24 HEX	-	-	-	-	8164005	2	8164005	2
72	CABLE BATTERY RED 36"	-	-	812282	1	-	-	812282	1
73	CABLE BATTERY BLACK 20"	-	-	812341	1	-	-	812341	1
75	BATTERY 12 V (NOT SUPPLIED ON DL18, SEE PAGE 3 FOR BATTERY MODEL AND SPECIFICATIONS)	-	-	812371	1	-	-	REF	REF
76	PIN SAFETY	800365	1	800365	1	800365	1	800365	1
77	WASHER LOCK 1/4" EXTERNAL TOOTH	-	-	-	-	8181007	4	8181007	4
78	TERMINAL PIGGY BACK 3/16"	-	-	-	-	-	-	890010	1
79	BRACKET BATTERY DL	-	-	812372	1	-	-	790230	1
80	SCREWCAP 1/4"-20 X 7" HCS ZP	-	-	-	-	-	-	8041023	2
	BOLT CARRIAGE 1/4"-20 X 1" ZP	-	-	8024022	2	-	-	-	-
88	LABEL WARNING LINER DL	100330	1	100330	1	100330	1	100330	1
103	LABEL MADE IN U.S.A.	520116	1	520116	1	520116	1	520116	1



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en	English	fi	Suomi	lv	Latviešu	ru	Русский
bg	Български език	fr	Français	nl	Nederlands	sl	Slovenščina
cs	Čeština	el	Ελληνικά	no	Norsk	sk	Slovák
da	Dansk	hr	Hrvatski	pl	Polski	sv	Svenska
de	Deutsch	hu	Magyar	pt	Português	tr	Türkçe
es	Español	it	Italiano	ro	Română		
et	eesti keel	lt	Lietuvių				

en	EC Declaration of Conformity	el	Δήλωση συμμόρφωσης ΕΚ	pl	Deklaracja zgodności UE
bg	Декларация за съответствие с европейските стандарти	hu	EU Megfelelőségi nyilatkozat	pt	Declaração de Conformidade à CE
cs	ES Prohlášení o shodě	hr	EC Deklaracija o sukladnosti	ro	Declarație de conformitate C.E.
da	EC Overensstemmelseserklæring	it	Dichiarazione di conformità CE	ru	Заявление о соответствии стандартам и нормам ЕС
de	EG-Konformitätserklärung	lv	EB atitiktības deklarācija	sl	ES izjava o skladnosti
es	Declaración de Conformidad de la CE	nl	E.C. Conformiteitsverklaring	sk	Vyhlasenie o zhode
et	Eü vastavustunnistus	no	CE konformitetserklæring	sv	EG-försäkran om överensstämmelse
fi	EC-vaatimustenmukaisuusvakuutus			tr	EC Uygunluk Deklarasyonu
fr	Déclaration de conformité CE				

en	Category	Debris Loader	el	Κατηγορία	φορτωτής συντρίμμια	pl	Kategoria	ładowarka gruz
bg	Категория	отломки товарач	hu	Kategória	törmelék rakodó	pt	Categoria	carregador detritos
cs	Kategorie	Nečistoty nakladače	hr	Kategorija	krhotine utovarivač	ro	Categorie	încărcător moloz
da	Kategori	efterslædskaber lastbilmonterede	it	Categoria	Aspiratore a sponda	ru	Категория	Обломки погрузчик
de	Kategorie	LKW-LADER-VAKUUM	lv	Kategorija	Nuolaužos krautuvais	sl	Kategorija	razbitin nakladač
es	Categoría	cargador de escombros	lt	Kategorija	Būvgružu iekrāvėjis	sk	Kategória	Debris loader
et	Kategooria	praht laadur	nl	Categorie	puin lader	sv	Kategori	debris lastare
fi	Kategoria	roskat kuormaimen	no	Kategori	rusk lasteren	tr	Kategori	enkaz yükleyici
fr	Catégorie	débris chargeur						

en	This is to certify that the products listed in this document meet the requirements of the European Community Law, and can carry the CE mark. These models comply with the following Directives and related Standards.
bg	Декларацията се издава в удостоверение на това, че изброените продукти съответстват на стандартите на правните норми на Европейския съюз и могат да носят знака CE. Моделите изпълняват директивите и техните стандарти, както следва.
cs	Tímto stvrzujeme, že výrobky uvedené v tomto dokladu splňují požadavky zákonů Evropského společenství a mohou být označeny značkou CE. Tyto modely splňují následující směrnice a související normy.
da	Det bekræftes hermed, at de produkter, der er nævnt i dette dokument, opfylder bestemmelserne i EU-lovgivningen og kan bære CE-mærkatet. Disse modeller er i overensstemmelse med følgende direktiver og relaterede standarder:
de	Hiermit wird bescheinigt, dass die in diesem Dokument aufgeführten Produkte mit den gesetzlichen Bestimmungen der Europäischen Gemeinschaft übereinstimmen und das CE- Zeichen tragen können. Diese Modelle erfüllen die folgenden Richtlinien sowie weitere anzuwendende Normen.
es	La presente certifica que los productos enumerados en este documento cumplen con los requerimientos de la Legislación de la Comunidad Europea, y que pueden portar la marca CE. Estos modelos cumplen con las siguientes Directrices y Estándares relacionados:
et	Kinnitame, et eespool nimetatud tooted vastavad Euroopa Ühenduse seadusandluse nõuetele ja kannavad CE-märgistust. Eespool nimetatud mudelid vastavad järgmistele direktiividele ja seotud standardidele:
fi	Vakuutamme, että tässä asiakirjassa luetellut tuotteet täyttävät Euroopan Unionin lainsäädännön asettamat vaatimukset ja voi saada CE-merkinnän. Nämä mallit täyttävät seuraavien direktiivien ja niitä koskevien standardien vaatimukset:
fr	Nous déclarons par la présente que les produits mentionnés dans le document sont conformes à la législation de la Communauté européenne et peuvent porter le marquage CE. Ces modèles sont conformes aux directives suivantes et aux normes connexes :
el	Με την παρούσα δήλωση πιστοποιείται ότι τα προϊόντα που αναφέρονται στην παρούσα πληρούν τις απαιτήσεις της Ευρωπαϊκής Κοινοτικής Νομοθεσίας και μπορούν να φέρουν τη σήμανση CE. Τα μοντέλα αυτά συμμορφώνονται με τις ακόλουθες Οδηγίες και τα σχετικά Πρότυπα.
hu	Ez annak tanúsítására szolgál, hogy a dokumentumban felsorolt termékek megfelelnek az Európai közösségi jog követelményeinek és viselheti a CE jelzést. Ezek a modellek eleget tesznek a következő irányelveknek és vonatkozó szabványoknak.
hr	Ovo je potvrda da proizvodi koji su navedeni u ovom dokumentu odgovaraju zakonima europske zajednice i da nose CE oznaku. Ovi modeli zadovoljavaju sljedeće direktive i odgovarajuće standarde.
it	Si certifica che i prodotti elencati nel presente documento soddisfanno i requisiti della legislazione della Comunità Europea e possono recare il marchio CE. Questi modelli sono conformi alle seguenti norme e direttive:
lt	Šiuo patvirtiname kad šiame dokumente paminėti produktai atitinka Europos Bendrijos įstatymų reikalavimus ir jie gali būti pažymėti CE ženklu. Šie modeliai atitinka sekančias direktyvas ir standartus.
lv	Ar šio tiek apstiprināts, ka šajā dokumentā uzskaitītie izstrādājumi atbilst Eiropas Kopienas Likuma prasībām un var tikt marķēti ar emblēmu CE. Šie modeļi atbilst sekojošajām Direktīvām un attiecīgajām Normām.
nl	Hiermee wordt gecertificeerd dat de producten die in deze lijst staan opgesomd, voldoen aan de wettelijke voorschriften van de Europese Gemeenschap en mogen worden voorzien van de CE markering. Deze modellen voldoen aan de volgende richtlijnen en bijbehorende normen:
no	Dette sertifiserer at produktene som er nevnt i dette dokumentet oppfyller kravene som stilles av EU, og at de dermed kan CE-merkes. Disse modellene tilfredsstiller følgende direktiver og relaterte standarder:
pl	Niniejszym zaświadcza się, że produkty wymienione w niniejszym dokumencie spełniają wymogi Prawa Wspólnoty Europejskiej i mogą nosić oznakowanie CE. Modele te spełniają wymogi następujących dyrektyw i powiązanych norm.
pt	O presente documento certifica que os produtos listados neste documento atendem aos requisitos das Leis da Comunidade Europeia e podem levar a marca CE. Esses modelos estão de acordo com as seguintes diretivas e padrões relacionados.
ro	Prin prezenta se atestă faptul că produsele menționate în acest document îndeplinesc cerințele de Drept Comunitar European și pot purta sigla C.E. Aceste modele sunt în conformitate cu următoarele directive și standarde asociate.
ru	Настоящим удостоверяется, что перечисленные в этом документе изделия соответствуют требованиям законов Европейского Союза и могут быть обозначены знаком CE. Эти модели отвечают требованиям следующих директив и соответствующих стандартам.
sl	To služi kot potrđitev, da izdelki, ki so navedeni v tem dokumentu, ustrezajo zahtevam zakonodaje Evropske skupnosti in so lahko opremljeni z oznako CE. Ti modeli so v skladu z naslednjimi direktivami in povezanimi standardi.
sk	Týmto vyhlasujeme, že výrobky uvedené v tomto dokumente, splňajú požiadavky zákonov ES a môžu byť označené značkou CE. Tieto modely vyhovujú nasledujúcim smerniciam príslušným normám.
sv	Härmed försäkras att produkterna som finns listade i detta dokument uppfyller kraven i Europeiska gemenskapens lagstiftning och kan förses med CE-märket. Modellerna uppfyller följande direktiv och tillhörande normer.
tr	Bu belgeyle belirlenen ürünlerin Avrupa Birliği Yasası gereksinimlerini karşılayarak CE işareti taşıyabilmesini onaylamak içindir. Bu modeller aşağıdaki Direktif ve ilgili Standartlarla uyumludur



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en	Directive:	2006/42/EC	hu	Irányelv:	2006/42/EC	pt	Diretiva:	2006/42/EC
bg	Директива:	2006/42/EC	el	Οδηγία:	2006/42/EC	ru	Директива:	2006/42/EC
cs	Směrnice č.:	2006/42/EC	hr	Direktiva:	2006/42/EC	ro	Directiva:	2006/42/EC
da	Direktiv:	2006/42/EF	it	Direttiva:	2006/42/EF	sl	Direktiva:	2006/42/EF
de	Richtlinie:	2006/42/EG	lt	Direktyva:	2006/42/EG	sk	Smernica:	2006/42/EG
es	Directriz:	2006/42/EC	lv	Direktīva:	2006/42/EC	sv	Direktiv:	2006/42/EC
et	Direktiiviga:	2006/42/EÜ	nl	Richtlijn:	2006/42/EÜ	tr	Direktif:	2006/42/EÜ
fi	Direktiivi:	2006/42/EC	no	Direktiv:	2006/42/EC			
fr	Directives :	2006/42/CE	pl	Dyrektywy:	2006/42/CE			

en Model	Guaranteed Sound Power Level	Measured Sound Power Level	Sound Pressure Level at Operator's Ear (1)	Engine Net Power	Hand/Arm Vibration (2)	Mass
bg Model	Гарантирано ниво на звука	Измерено ниво на звука	Налягане на звука, измерено на нивото на ухото на оператора (1)	Мощност на двигателя	Вибрация на дланта и на ръката (2)	Маса
cs Model	Garantovaná hladina akustického výkonu	Změřená hladina akustického výkonu	Hladina akustického tlaku naměřená u ucha obsluhující osoby (1)	Užitečný výkon motoru	Vibration rukou/paž (2)	Váha
da Model	Garanteret støjniveau	Målt støjniveau	Lydtryksniveau ved brugerens øre (1)	Maskine Netto kraft	Vibration af hånd/arm (2)	Vægt
de Model	Garantierter Schalleistungspegel	Gemessener Schalleistungspegel	Schalldruckpegel am Ohr der Bedienungsperson (1)	Motor Nettoleistung	Vibrationen an Hand/Arm (2)	Masse
es Modelo	Nivel garantizado de potencia acústica	Nivel medido de potencia acústica	Nivel de presión acústica en el oído del operador (1)	Potencia neta del motor	Vibración mano / brazo (2)	Masa
et Mudel	Garanteeritud helivõimsuse tase	Mõõdetud helivõimsuse tase	Heliõhu tase kasutaja kõrvajuures (1)	Masin puhas töötav	Võkumine käsi / käsivars (2)	Massi
fi Malli	Taattu äänitehotaso	Mitattu äänitehotaso	Äänenpaine taso käyttäjän korvan tasolla (1)	Moottorin nettoteho	Käden/käsivarsen värinä (2)	Paino
fr Modèle	Niveau de bruit garanti	Niveau de bruit mesuré	Niveau sonore au niveau de l'oreille de l'opérateur (1)	Puissance nette du moteur	Vibrations au niveau de la main/du bras (2)	Masse
el Μοντέλο	Εγγυημένη στάθμη ηχητικής ισχύος	Μετρηθείσα στάθμη ηχητικής ισχύος	Στάθμη ηχητικής πίεσης στο αυτί του χειριστή (1)	Καθαρή ισχύς κινητήρα	Χειροβραχίον κι δόνηση (2)	Μάζα
hu Model	Garantált hangteljesítmény szint	Mért hangteljesítmény szint	Hangnyomás szint a gépkezelő fülénél (1)	Motor hasznos teljesítménye	Kéz/kar vibráció (2)	Tömeg
hr Model	Zajamčena razina snage zvuka	Izmerjena razina snage zvuka	Razina zvučnog tlaka na uhu rukovatelja (1)	Neto snaga motora	Vibracije šake/ruke (2)	Masa
it Modello	Livello acustico garantito	Livello acustico misurato	Livello di pressione acustica all'orecchio dell'operatore (1)	Potenza netta motore	Vibrazioni a mani/braccia (2)	Massa
lt Modelis	Garantuotas triukšmo lygis	Pamatuotas triukšmo lygis	Garso spaudimo lygis įrangos naudotojui (1)	Variklio bendras galingumas	Rankenos vibracija (2)	Masė
lv Modelis	Garantētais skaņas jaudas līmenis	Izmērītais skaņas jaudas līmenis	Skaņas spiediena līmenis pie operatora ausis (1)	Dzinēja neto jauda	Rokas/pleca vibrācija (2)	Masa
nl Model	Gegarandeerd geluidsdrukniveau	Gemeten geluidsdrukniveau	Geluidsdrukniveau bij het oor van de gebruiker (1)	Netto motorvermogen	Trilling van hand/arm (2)	Mass
no Model	Garantert lydstyrkenivå	Målt lydstyrkenivå	Lydtrykk-nivå ved operatørens øre (1)	Motorens netto krefter	Hånd/arm-vibrasjon (2)	Masse
pl Model	Gwarantowany poziom mocy akustycznej	Zmierzony poziom mocy akustycznej	Poziom ciśnienia akustycznego w uchu operatora (1)	Moc netto silnika	Organia ręki/ramienia (2)	Masa
pt Modelo	Nível de potência de som garantido	Nível de potência de som medido	Níveis de pressão do som no ouvido do operador (1)	Potência útil do motor	Vibração na mão/braço (2)	Massa
ro Model	Nivel de zgomot garantat	Nivel de zgomot măsurat	Nivel de presiune acustică la urechea operatorului (1)	Putere netă motor	Vibrație mână/braț (2)	Masă
ru Модель	Гарантированный уровень звуковой мощности	Измеренный уровень звуковой мощности	Уровень звукового давления на месте оператора (1)	Полезная мощность двигателя	Интенсивность вибрации на ладонях/руках (2)	Вес
sl Model	Zajamčena raven zvočne moči	Izmerjena raven zvočne moči	Raven zvočnega tlaka pri užesu uporabnika (1)	Izhodna moč motorja	Tresljaji na rokah (2)	Masa
sk Model	Zaručená hladina akustického výkonu	Nameraná hladina akustického výkonu	Hladina akustického tlaku pôsobiaceho na ucho obsluhy (1)	čistý výkon motora	Ruka/Rameno Vibrácia (2)	Masa
sv Modell	Garanterad ljudeffektivnivå	Uppmätt ljudeffektivnivå	Ljudtryksnivå vid operatörens öra (1)	Motoreffekt netto	Hand-/ armvibrationer (2)	Massa
tr Model	Garantili Ses Gücü Seviyesi	Ölçülen Ses Gücü Seviyesi	Operatörün Kulakındaki Ses Basıncı Seviyesi (1)	Makine Net Gücü	El/Kol Titreşimi (2)	Ağırlık
DL90 I#EU	122 dB(A)	121 dB(A)	105 dB(A)	6.7 kW	.2 m/s ²	92.5 kg
DL130 H	122 dB(A)	121 dB(A)	105 dB(A)	9.69 kW	.2 m/s ²	93.9 kg
DL130 I#EU	122 dB(A)	121 dB(A)	105 dB(A)	9.69 kW	.2 m/s ²	93.9 kg
DL140 I#SE	122 dB(A)	121 dB(A)	105 dB(A)	10.4 kW	.2 m/s ²	93.9 kg
DL140 I#EEU	122 dB(A)	121 dB(A)	105 dB(A)	10.4 kW	.2 m/s ²	93.9 kg
DL180 IV	122 dB(A)	121 dB(A)	105 dB(A)	13.4 kW	.2 m/s ²	121.1 kg
DL180 I#VE	122 dB(A)	121 dB(A)	105 dB(A)	13.4 kW	.2 m/s ²	121.1 kg
DL180 I#VEEU	122 dB(A)	121 dB(A)	105 dB(A)	13.4 kW	.2 m/s ²	121.1 kg



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- (1) ISO 5395-1:2013 F.7 (EN 4871:1996)
(2) ISO 5395-1:2013 G.8 (EN 12096:1997, D.1)

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