

AGROSAL d.o.o.



15LD 350 ECOWIND



AGROSAL d.o.o.

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**LOMBARDINI**

A KOHLER COMPANY

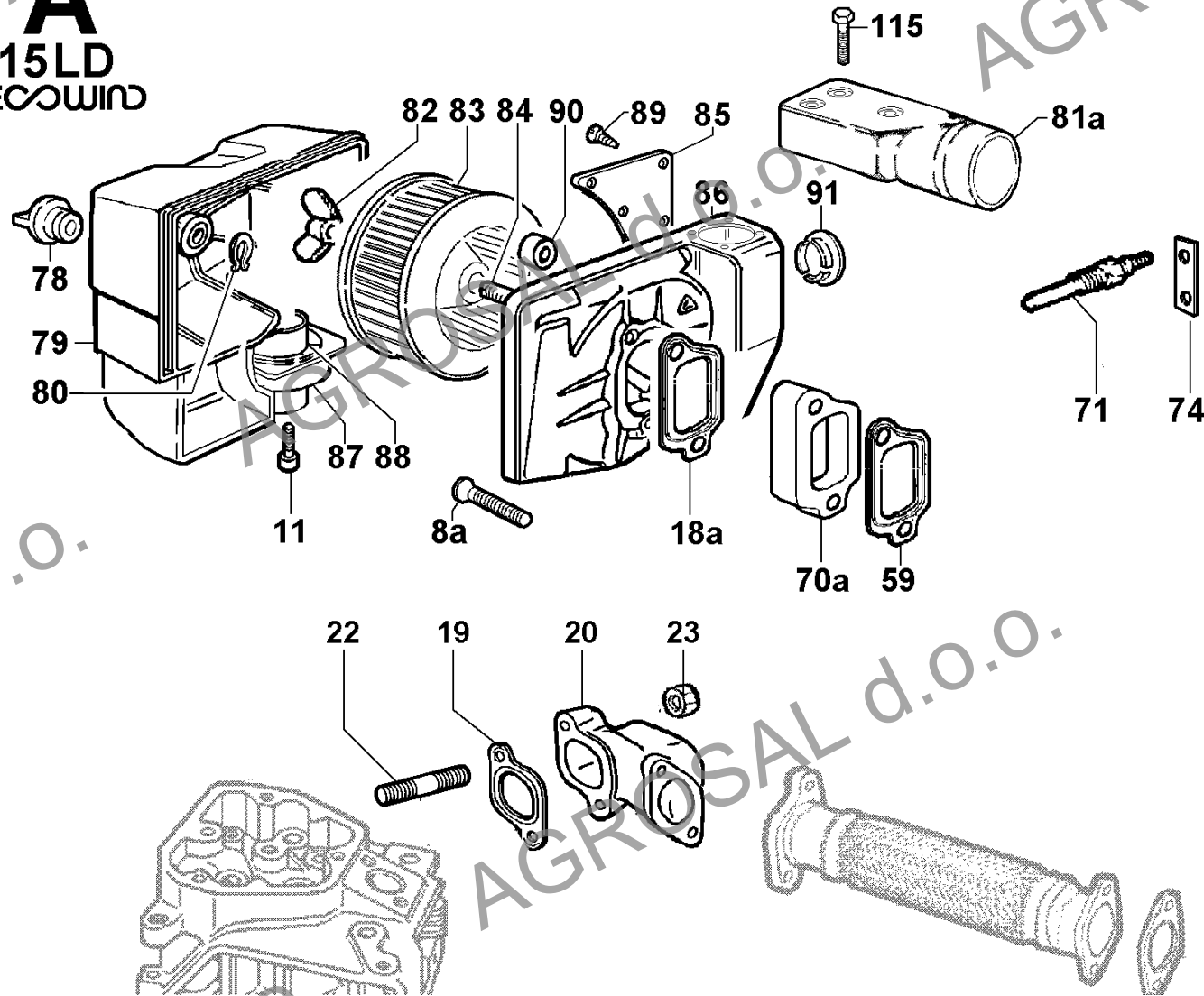
Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: A

INTAKE

POS.	CODE	DESCRIPTION	Qty
8a	9800.154	screw M 8 X 45	2
11	9820.172	self-tapping screw 4 X 20	4
18	«-----»	air cleaner gasket	0
18a	4490.096	air cleaner gasket	1
70a	3815.104	flange	1
71	2100.089	preheating glow plug 12 V	2
74	6370.323	glow plug plate	1
78	6560.039	air cleaner cover fixing knob	1
78a	«-----»	air cleaner cover fixing knob	0
79	2750.455	DRY AIR CLEANER COVER ASS.Y	1
80	1241.067	snap ring	1
81a	2942.206	inlet air elbow	1
82	3200.024	wing nut	1
83	2175.268	air clean.cartridge	1
84	6760.043	stud M 6 X 35	1
85	2836.340	air cleaner body	1
86	8741.210	AIR CLEANER SUPPORT ASS.Y	1
86	8741.222	AIR CLEANER SUPPORT ASS.Y fitted for glow plug	1
87	6727.051	prefilter holder	1
88	6727.052	cyclonic prefilter	1
89	9820.168	self-tapping screw 3,9 X 9,5	13
90	4490.098	joint	1
91	«-----»	plug - see Pos. A 86	0
115	1755.021	bolt M 5 X 45	3

A
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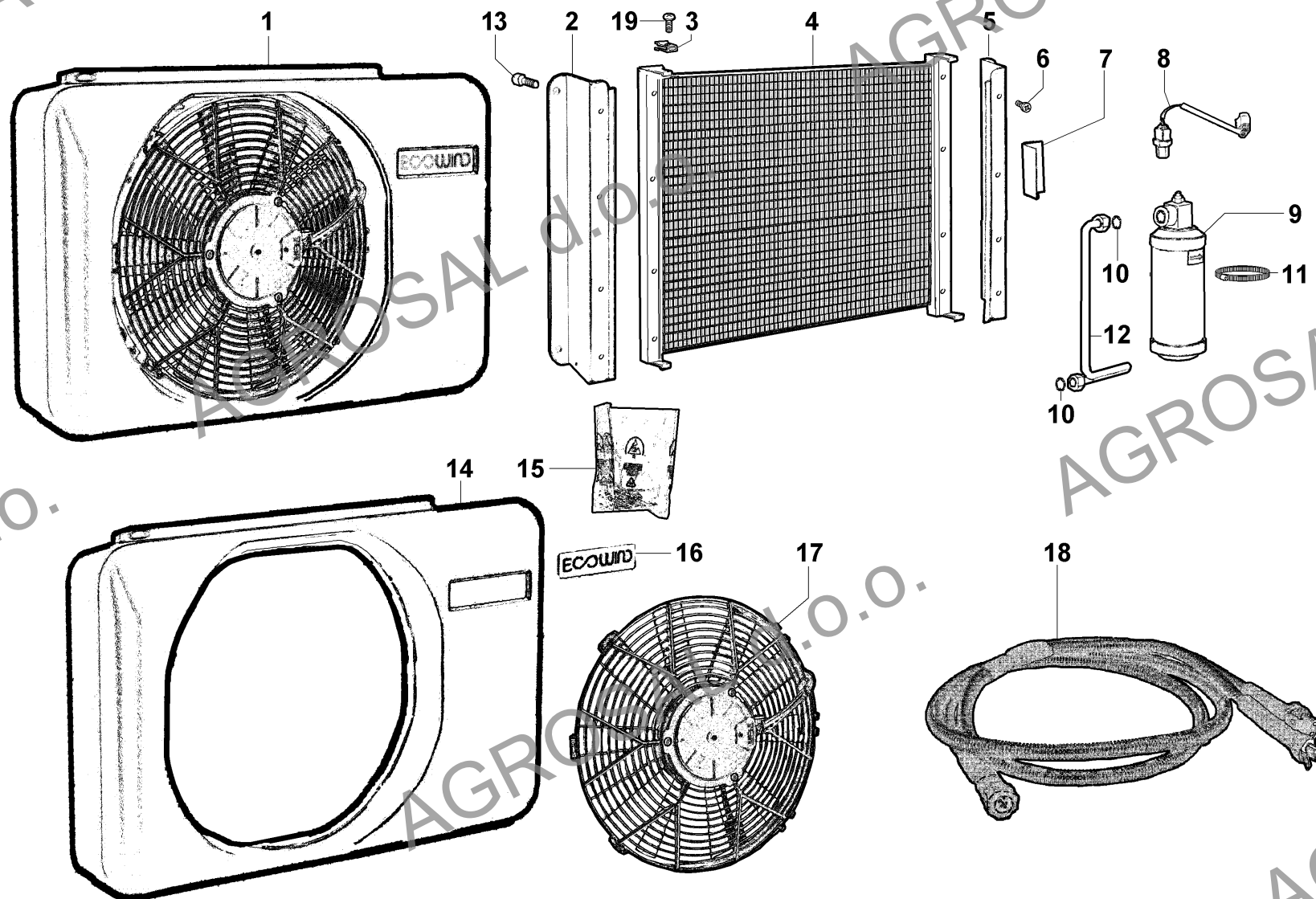
Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: U

CONDENSER EXTERNAL UNIT

POS.	CODE	DESCRIPTION	Qty
1	2522.080	condenser unit	1
2	8546.164	bracket	1
3	3206.087	carrier fixing M6 spring	4
4	2522.079	condenser	1
5	8546.166	bracket	1
6	9820.209	self-tapping screw 4,2 X 16	8
7	8546.162	bracket	1
8	6745.073	gas pressostat	1
9	3750.116	disidrating filter	1
10	1201.104	O ring G6	2
11	3630.022	clamp dia.50-70	2
12	9545.001	horizontal tube filter	1
13	9730.010	screw M 6 X 16	4
14	2565.096	shroud	1
15	1980.085	condenser envelope implantations	1
16	9101.001	label logo	1
17	3597.030	electric fan	1
18	2186.167	cable connection power unit-condenser unit	1
19	9730.337	screw M 6 X 16	4

U
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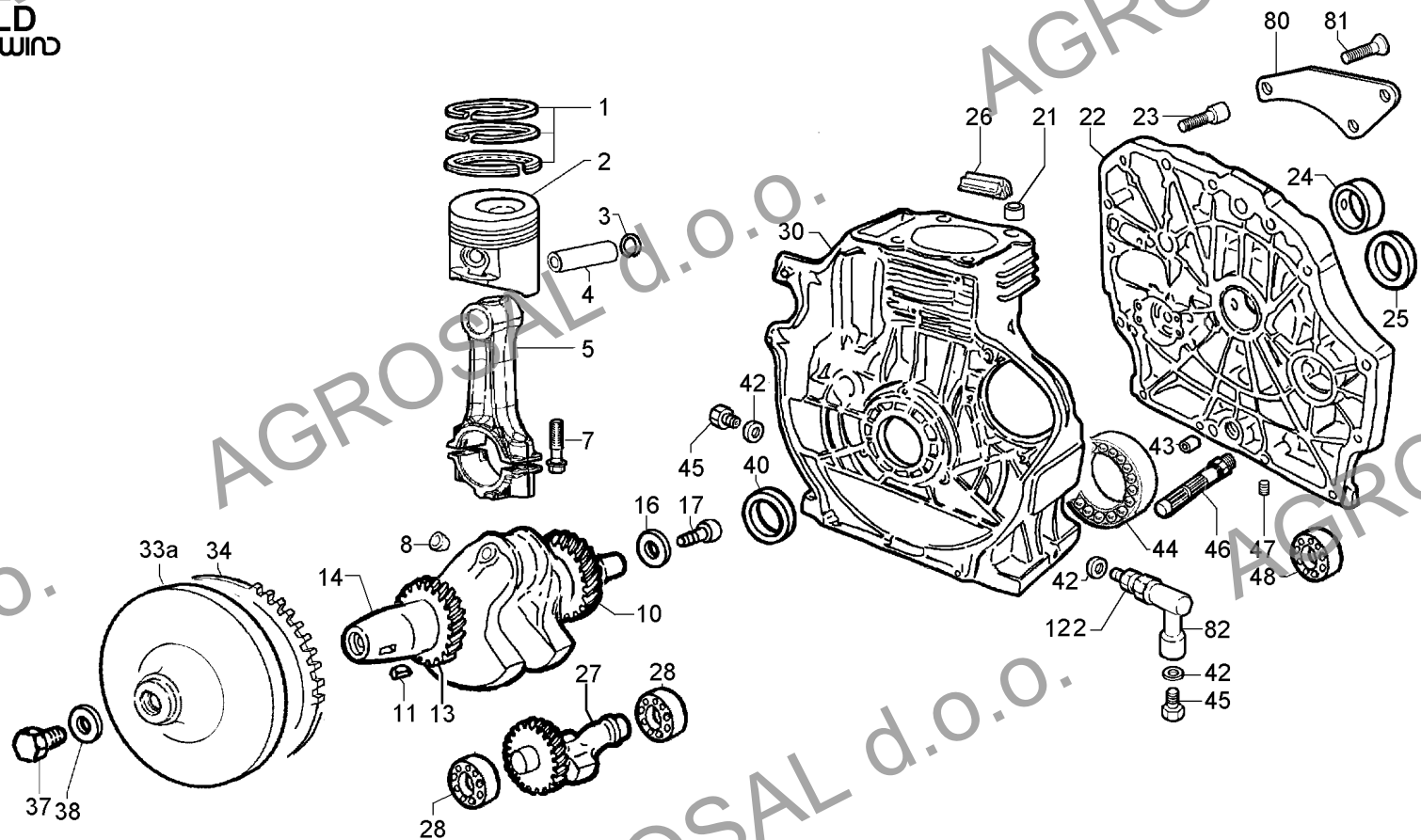
Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: B

CONN.ROD/PISTON/CRANKSHAFT/FLYWHEEL/CRANKCASE/FLANGING

POS.	CODE	DESCRIPTION	Qty
1	8211.239	ring set std.	1
1	8211.240	ring set +0,50	1
1	8211.241	ring set +1,00	1
2	6501.487	PISTON SET std	1
2	6501.488	PISTON SET +0,50	1
2	6501.489	PISTON SET +1,00	1
2	6502.877	PISTON SET std (EPA)	1
2	6502.878	PISTON SET +0,50 (EPA)	1
2	6502.879	PISTON SET +1,00 (EPA)	1
3	1160.061	circlip	2
4	8480.098	gudgeon pin	1
5	1526.204	CONNECT.ROD std.	1
5	1526.205	CONNECT.ROD -0,25	1
5	1526.206	CONNECT.ROD -0,50	1
7	1770.101	bolt M 8 X 1 X 42	2
8	9080.132	plug diam. 6	1
10	«-----»	see Pos. 14	0
11	2280.067	key 5 X 7,5 X 19	1
13	«-----»	see Pos.14	0
14	1050.856	CONICAL PTO CRANKSHAFT with equalizer device	1
16	7625.060	washer diam. 8,4	1
17	1770.039	bolt M 8 X 1,25 X 28	1
21	1970.140	sleeve	2
22	6645.566	CRANKCASE COVER	1
23	9730.031	screw M 8 X 40	14
24	1611.180	bearing -0,25	1
24	1611.181	bearing -0,50	1
24	1611.185	bearing std.	1
24	1611.186	bearing -1,00	1
25	1213.345	seal ring 28X40X7	1
26	4775.555	gasket	1
27	1111.177	equalizer shaft	1
28	3002.077	equalizer shaft ball bearing	2
30	1510.784	crankcase (fitted for feed pump and el.starting)	1
33a	9881.485	FLYWHELL with CROWN	1
34	2816.102	crown gear Z=94	1
37	1800.030	bolt M 14 X 35 sin.	1
38	7626.043	washer diam.14,5	1
40	1213.361	seal ring 35X52X7	1
42	4350.007	gasket	3
43	1970.338	bushing	2
44	3002.058	ball bearing 6307-C3 35X80X21	1
45	9040.012	plug M 14	2
46	395R.015	suction oil filter	1
47	9765.162	screw M 10 X 1	1
48	«-----»	see Pos. 28	0
80	6320.075	plate	1
81	9800.155	screw	2
82	2940.110	discharg.oil pipe	1
122	7320.033	union	1

B
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Group: ECOWIND

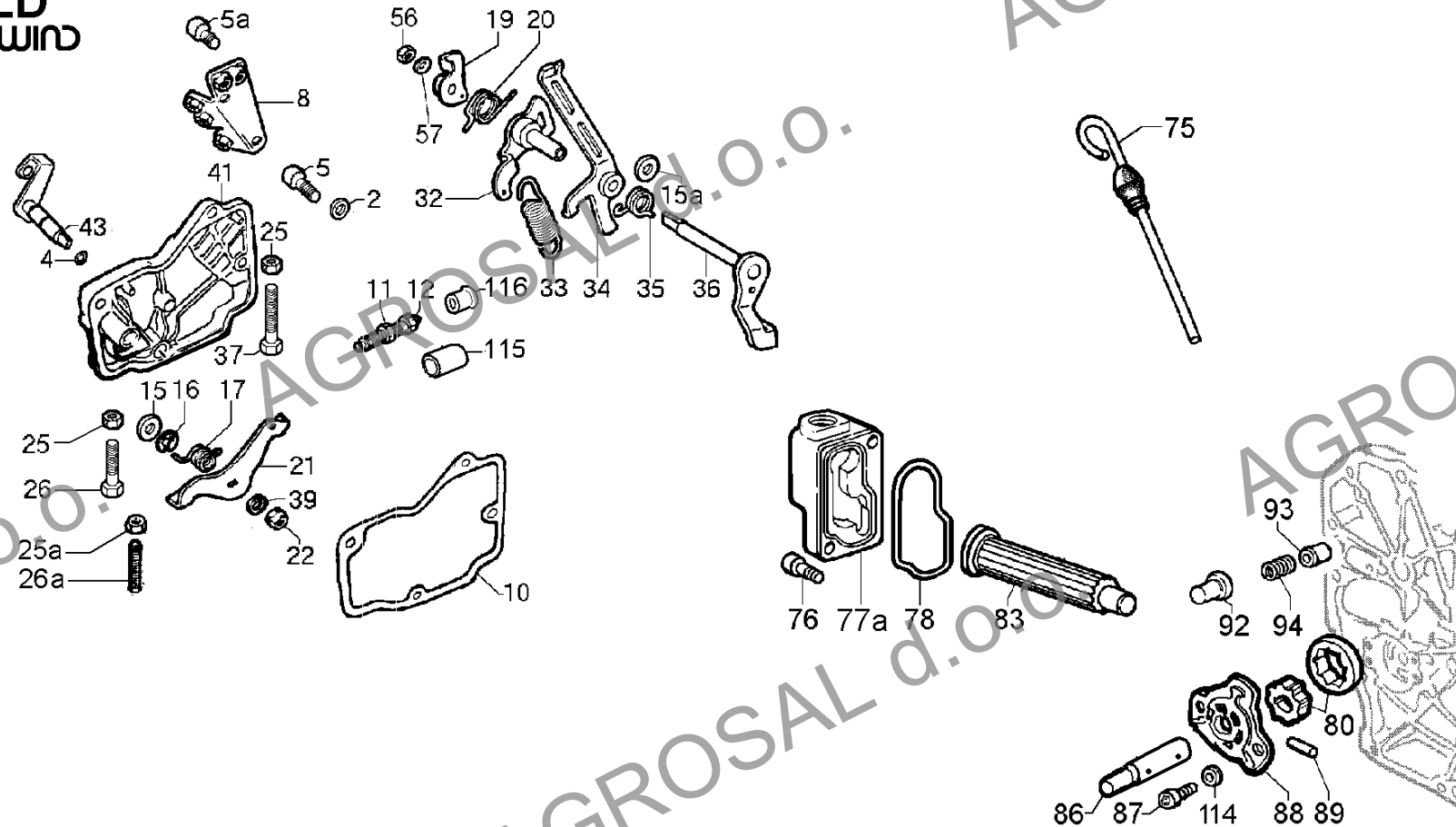
Engine: 15LD 350 Ecowind Drawing: D

CONTROLS/LUBRICATING SYSTEM

POS.	CODE	DESCRIPTION	Qty
4	1200.041	O ring 103/2018	1
5	9730.012	screw M 6 X 20	3
5a	9730.008	screw M 6 X 10	2
8	8510.143	bracket	1
10	4431.199	gasket	1
11	3240.063	nut M 10	1
12	8576.127	eXtra fuel device maX 3000 R.P.M.	1
12	8576.143	eXtra fuel device maX 3000 R.P.M. (EPA version)	1
15	7625.105	washer diam. 8,2	1
16	1240.002	circlip diam. 8	1
17	«-----»	see Pos. 41	0
19	5201.110	governor lever	1
20	5801.534	eXtra fuel spring	1
21	«-----»	see Pos. 41	0
22	3240.008	nut M 6	1
25	3240.153	nut M 6	1
25a	3300.237	nut (EPA type)	1
26	1760.082	bolt M 6 X 35	1
26a	9765.169	screw M 6 X 40 (EPA)	1
33	5655.374	gover.spring 1500/2200 R.P.M.	1
34	5200.872	control lever	1
35	5600.040	spring	1
36	5201.109	internal control lever	1
37	1760.027	bolt M 6 X 40 (minimum)	1
39	7565.004	washer diam. 6	1
41	2750.448	GOVERNOR COVER ASS.Y without stop lever	1
43	«-----»	see Pos. 41	0
56	3240.008	nut M 6	1
57	7565.004	washer diam. 6	1
75	1400.232	dipstick	1
76	9730.010	screw M 6 X 16	2
77a	9220.121	oil filter head	1
78	1200.234	O ring 53,70 X 1,78	1
80	6605.090	oil pump	1
83	2175.155	oil filter cartridge	1
86	1111.225	oil pump shaft	1
87	9730.010	screw M 6 X 16	2
88	8836.210	oil pump support	1
89	7770.172	roller 3 X 15,8	1
92	9015.008	pressure valve plug	1
93	6495.056	drive rod	1
94	5625.008	pressure valve spring	1
114	7555.004	washer diam. 6	2
115	9600.089	foolproof tube	1
116	2145.037	cap	1

D

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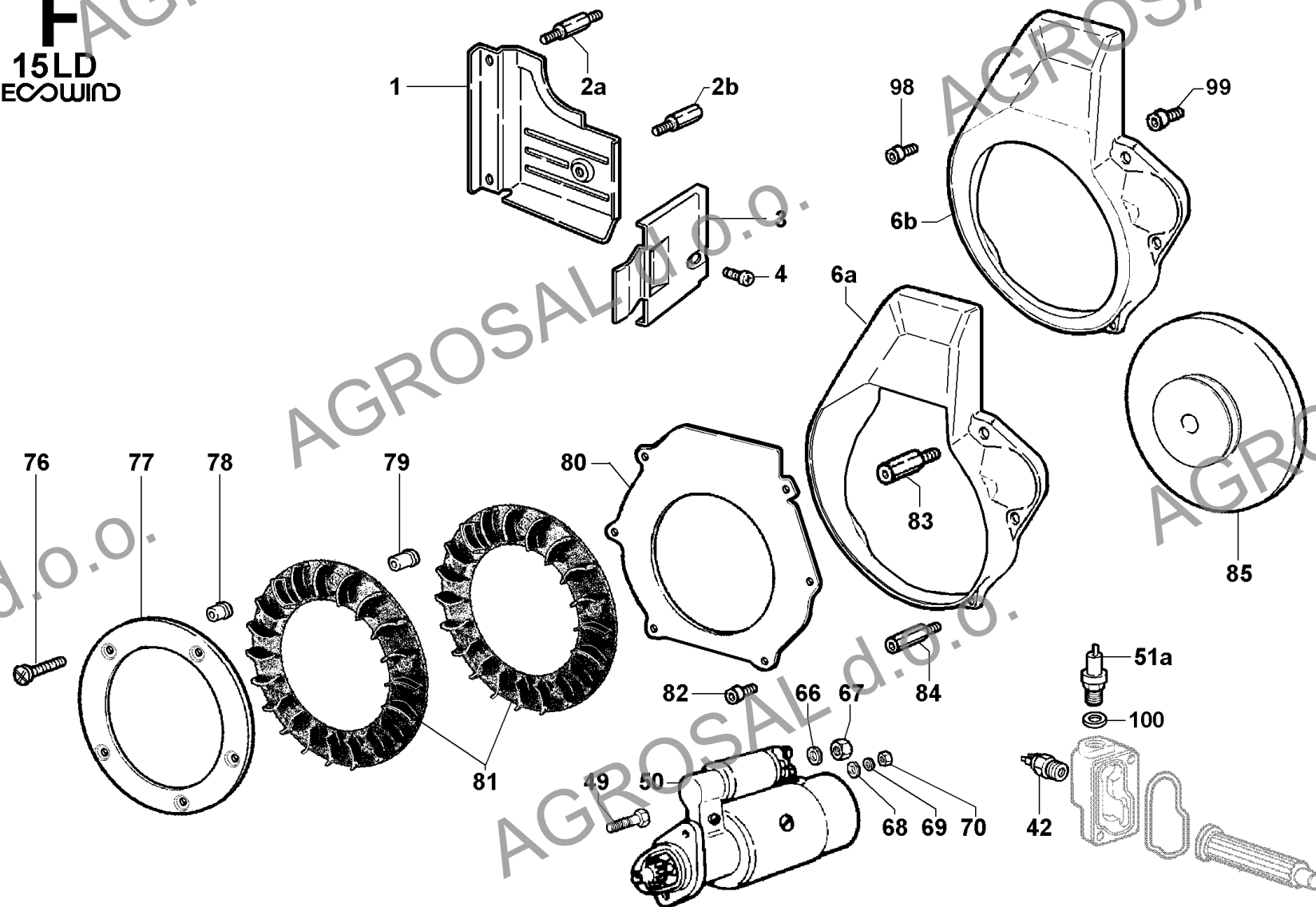
Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: F

COOLING SYSTEM/STARTING

POS.	CODE	DESCRIPTION	Qty
1	5066.406	rear panel	1
2a	2500.111	hollowstud	2
2b	2500.114	hollowstud	1
3	5066.311	side panel	1
4	9865.122	screw M 6 X 12	1
6a	2565.098	shroud	1
6b	2565.099	shroud	1
42	6745.052	pressure oil switch M 10 1,4 bar - brown	1
42	6745.081	pressure oil switch M 10 1,4 bar - twin contact	1
49	992R.024	screw M 10 X 25	2
50	5840.216	starting motor 24 V	1
50	5840.244	starting motor 12 V	1
51	9195.022	oil thermostat	1
66	7565.007	washer diam. 8	1
67	3240.018	nut M 8	1
68	7625.008	washer diam. 6,4	1
69	7555.004	washer diam. 6	1
70	3240.009	nut	1
76	9730.402	screw M 6	5
77	3410.074	fan plate	1
78	3525.128	spacer	5
79	3525.127	spacer	5
80	5066.361	panel	1
81	9718.115	blower fan	2
82	9790.039	screw M 6 X 12	6
83	2500.112	hollowstud	1
84	2500.113	hollowstud	5
85	7051.224	driving pulley	1

F
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Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: C

CYLINDER HEAD/ROCKER ARM BOX/VALVES/TIMING/SPEED GOVERNOR

POS.	CODE	DESCRIPTION	Qty
1	1410.167	push rod	2
2	7215.137	push rod	2
3b	1011.866	CAMSHAFT ASS.Y with antireverse compr.rel. (EPA)	1
4	«-----»	see pos. 3	0
6	1015.063	compression shaft	1
7	1301.245	thrust washer diam.28,8X16X0,5	1
8	«-----»	see pos. 3	0
9	6231.211	pin	2
10	5660.104	spring for engine with electric starting	1
11	«-----»	see pos. D 86	0
12	7200.276	DRIVE ROD ASS.Y	1
13	«-----»	see Pos. 18a	0
16	1240.004	circlip diam. 10	1
17	7770.171	roller 3 X 27,8	2
18a	4896.434	GOVERNOR ASS.Y	1
19	1011.513	camshaft (std - without compression release)	1
20	9820.168	self-tapping screw 3,9 X 9,5	3
21	«-----»	see Pos. 28	0
23	7625.270	washer	1
24	«-----»	see Pos. 28	0
25	9732.016	screw M 6 X 40	3
26	8506.003	engine lifting eye	1
28	2125.650	ROCK ARM COVER ASS.Y	1
29	3240.161	safety nut	2
30	3300.265	special nut	2
31	1541.176	rocker arm	2
32a	9730.024	screw M 8 X 16	2
34	5151.100	push rod guide	1
35	7625.061	washer diam. 8,4	1
36	«-----»	see Pos. 28	0
37	6780.045	stud M 8 X 12 (24)	1
38	«-----»	see Pos. 28	0
41	4400.097	gasket	1
42	9820.181	screw M 3,5 X 6,5	5
43	9732.078	screw M 6 X 25	2
44	9200.487	CYLINDER HEAD WITH SEATS AND GUIDES	1
45	9850.116	adjustment screw	2
46a	6231.275	pin	1
47	1862.146	fixing head bolt	4
48	7625.130	washer diam. 10,2	4
49	6410.136	retainer with half-collets	2
50	5755.117	valve spring	1
50a	5755.155	valve spring	1
51	3430.114	cup	2
52	4535.015	valve retainer	2
53	4845.218	inlet valve guide	1
54	8000.174	inlet v.seat	1
55	4730.855	head gask. 1,0 diam. 82,5 - no semicircular cut	1
55	4730.856	head gask. 1,0 diam. 83,5 - no semicircular cut + 1 mm on the	1
55	4730.857	head gask. 1,1 diam. 82,5 - 1 semicircular cut	1
55	4730.858	head gask. 1,1 diam. 83,5 - 1 semicircular cut + 1 mm on the in	1
55	4730.859	head gask. 1,2 diam. 82,5 - 2 semicircular cuts	1
55	4730.860	head gask. 1,2 diam. 83,5 - 2 semicircular cuts + 1 mm on the i	1

Group: ECOWIND

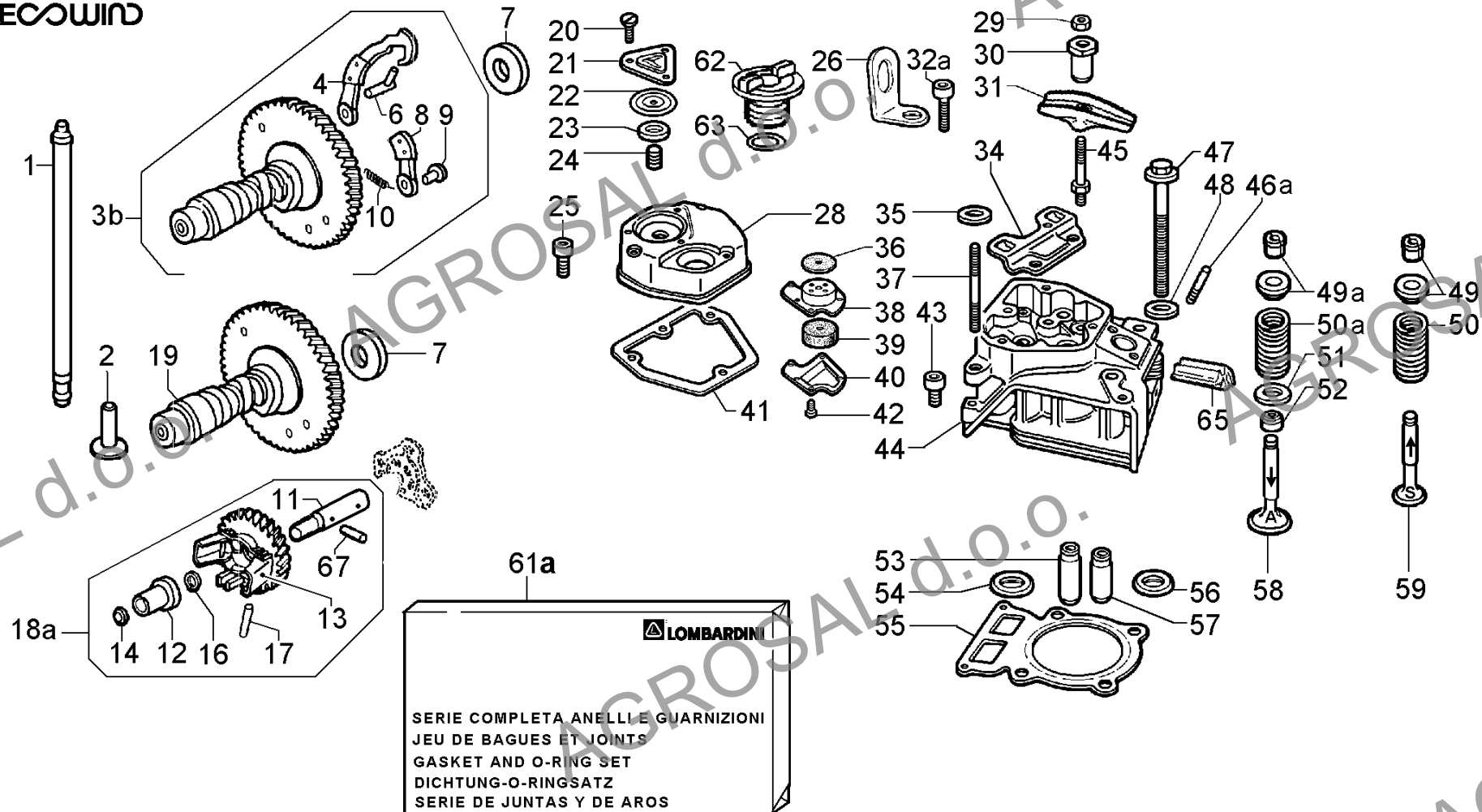
Engine: 15LD 350 Ecowind Drawing: C

CYLINDER HEAD/ROCKER ARM BOX/VALVES/TIMING/SPEED GOVERNOR

POS.	CODE	DESCRIPTION	Qty
56	8000.175	eXhaust v.seat	1
57	4845.219	eXh valve guide	1
58	9652.130	intake valve	1
59	9685.133	eXhaust valve	1
61a	8205.105	RING AND GASKET COMPLETE SET (without Pos. C 55)	1
62	9032.086	filler oil cap	1
63	1200.082	O ring 3106	1
65	4775.555	gasket	1
67	7770.172	roller 3 X 15,8	1

C

15LD ECOWIND



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Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: E

FUEL SYSTEM

POS.	CODE	DESCRIPTION	Qty
8	9375.872	fuel pipe 5X10 mm. 250	1
11	3630.163	clamp	6
15	5010.085	injector with nozzle 5 holes	1
15	6615.129	injector with nozzle 4 holes - EPA	1
16	2527.094	hose connector (red)	1
16a	7301.052	union	1
17	7270.108	banjo union diam. 6	1
18	9375.807	high press.pipe	1
18	9376.121	high press.pipe EPA version	1
19	4670.062	copper gasket diam. 6,2 X 10 X 1,5	2
20	7260.053	connection EPA version	1
21	5010.085	nozzle 15LD 350 with 5 holes for nozzle-holder 5010.085	1
21	6531.618	nozzle 15LD 350 with 4 holes for nozzle-holder 5010.724	1
22	4670.099	copper gasket 1,00	1
22	4670.102	copper gasket 1,00 (EPA)	1
23	9730.013	screw M 6 X 25	2
24	6590.407	injection pump (EPA)	1
24	6590.440	injection pump with delivery valve mmc 15 (engine 15LD 350/S)	1
25	4580.180	gasket 0,38	1
26	9730.012	screw M 6 X 20	1
27	3617.197	fuel filter clamp	1
28a	3730.121	fuel filter	1
37	9376.155	fuel pipe 6X8 mm. 155	1
39	7260.042	union	1
40	6000.113	adjustment cup violet 4,00 EPA	1
40	6000.114	adjustment cup white 4,10 EPA	1
40	6000.115	adjustment cup yellow 4,20 EPA	1
40	6000.116	adjustment cup orange 4,30 EPA	1
40	6000.117	adjustment cup light blue 4,40 EPA	1
40	6000.118	adjustment cup green 4,50 EPA	1
40	6000.119	adjustment cup blue 4,60 EPA	1
40	6000.120	adjustment cup red 4,70 EPA	1
40	6000.121	adjustment cup grey 4,80 EPA	1
41	7215.133	push rod	1
41	7215.138	push rod (EPA)	1
42	7625.303	washer diam. 6,5	1
43	9865.221	screw M 6 X 1	1
47	3630.163	clamp	4
49	9790.028	screw M 5 X 10	2
58	8510.145	bracket	1
62a	7270.104	banjo union diam.10	2
65	1901.030	union bolt M 10	2
69	4670.059	copper gasket diam.10	4
76	9672.116	delivery valve mmc 15	1
76	9672.138	delivery valve (EPA)	1
77	3630.050	clamp dia 9-11	1
81	9730.018	screw M 6 X 45	1
83	8545.793	bracket	1
98	1901.030	union bolt M 10	2
99a	6780.008	stud M 8 X 20 (32)	2
100	6585.096	feed pump	1
101	1200.087	O ring 3150	1
102	4670.059	copper gasket diam.10	2

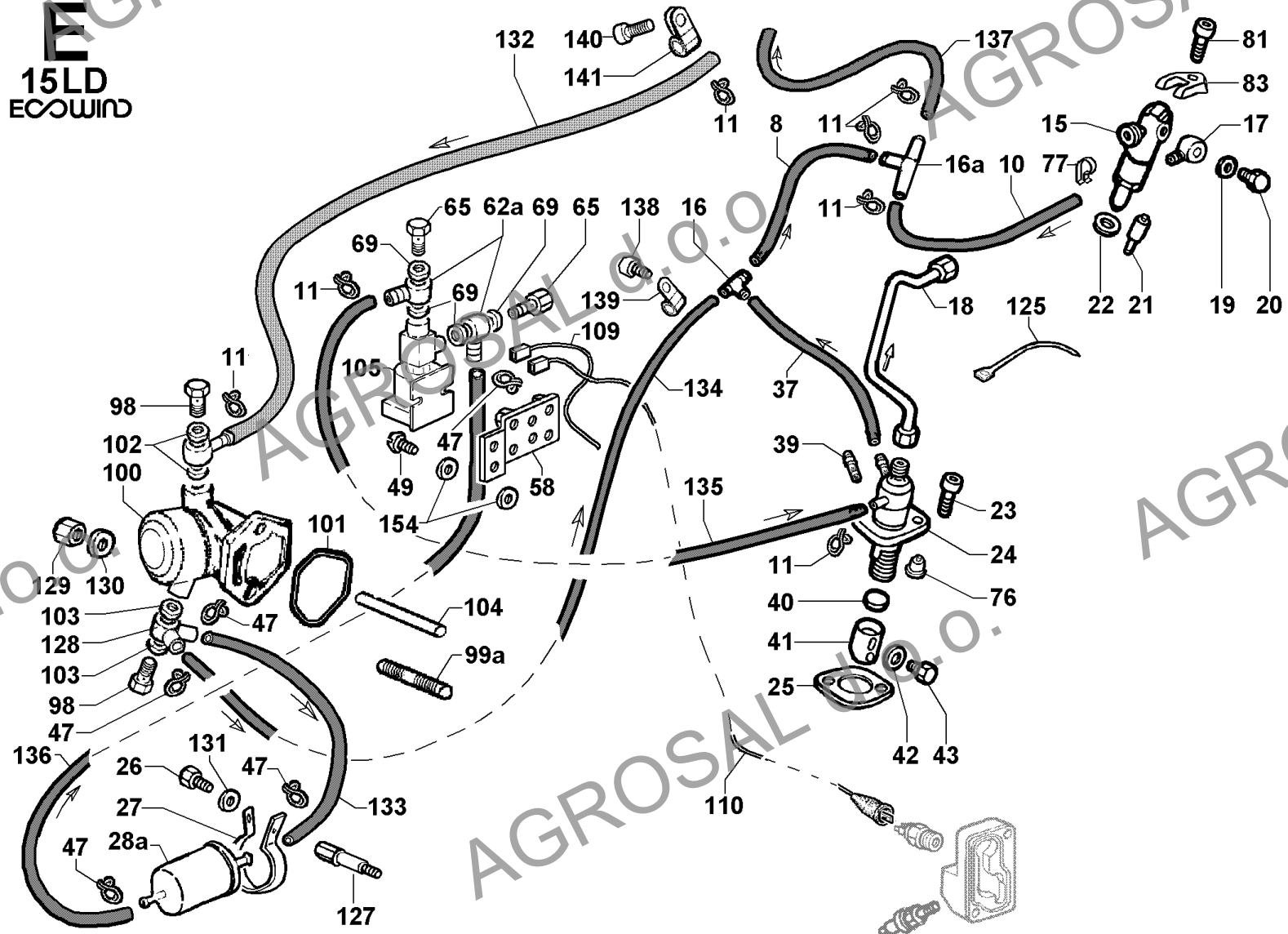
Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: E

FUEL SYSTEM

POS.	CODE	DESCRIPTION	Qty
104	7200.165	feed pump rod	1
105	3587.138	electro-valve 12V antireverse	1
105	3587.180	electro-valve 24V	1
109	«-----»	wire mm 2000	0
125	2471.006	collar	1
127	2500.116	hollowstud	1
128	7270.117	two way banjo union	1
129	3240.164	nut M 8	2
130	7555.029	washer diam. 8	2
131	7625.007	washer diam. 6	1
132	9376.131	del.pipe mm 1025	1
133	9376.134	fuel pipe 5X10 mm. 400	1
135	9375.872	fuel pipe 5X10 mm. 250	1
136	9376.134	fuel pipe 5X10 mm. 400	1
138	9730.023	screw M 8 X 10	1
139	3617.088	clamp dia. 9,5	1
140	9730.100	screw M 8 X 25	2
141	3630.116	clamp	2
154	7625.059	washer diam. 6,4	4

E
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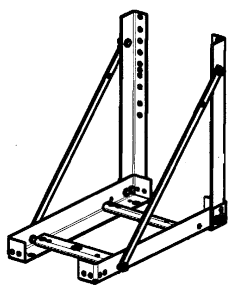
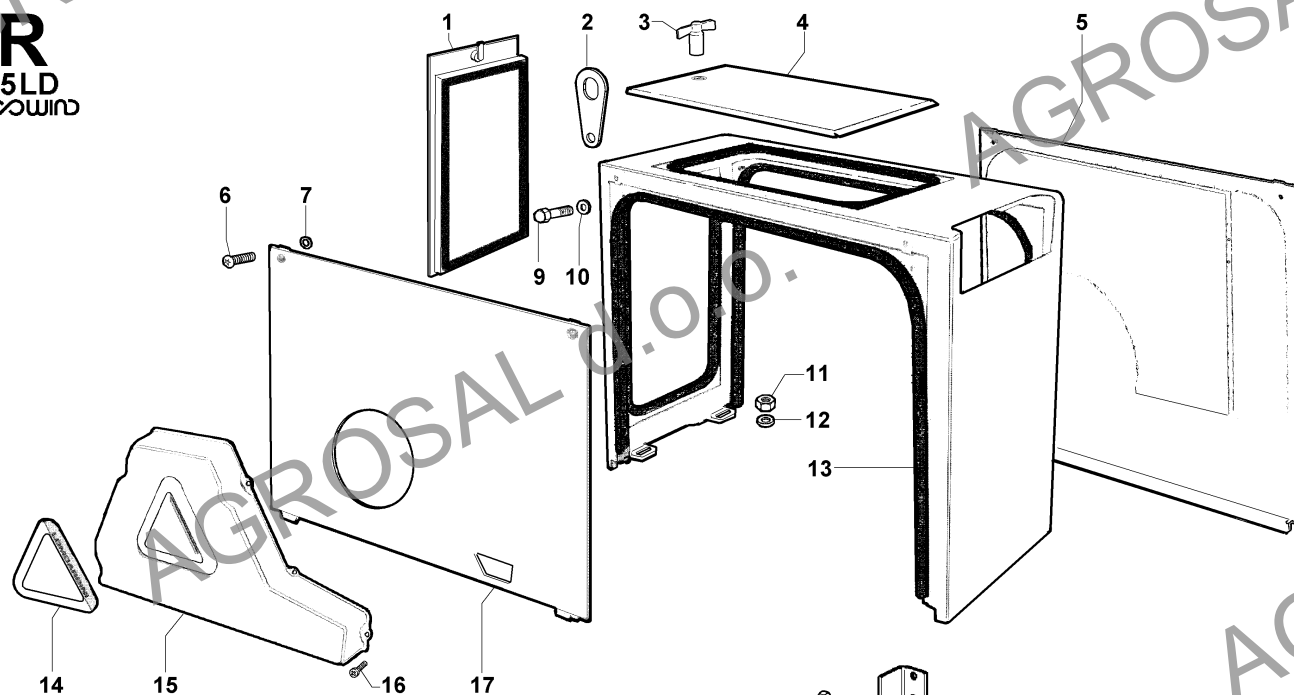
Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: R

HOOD

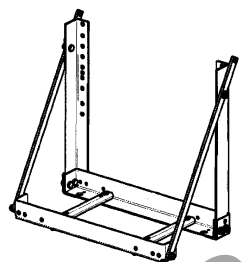
POS.	CODE	DESCRIPTION	Qty
1	2691.101	insp.cover	1
2	8545.939	lifting brace	4
3	2300.001	key hatch	2
4	2691.101	insp.cover	1
5	2691.100	rear side hood cover	1
6	9730.012	screw M 6 X 20	4
7	1200.051	rubber oil seal	4
9	1770.004	bolt M 8 X 1,25 X 20	4
10	7565.007	washer diam. 8	4
11	3203.108	nut M 8	4
12	7625.010	washer diam. 8	4
13	2460.124	cowling	1
14	5302.681	adhesive logo	1
15	6925.109	GUARD	1
16	9730.404	screw M 4 X 16	5
17	2691.099	FRONT SIDE HOOD COVER	1
18	8675.307	power unit support	1
19	9265.190	brace	2
20	1351.018	crosspiece (skillful side)	1
21	1800.003	bolt M 14 X 40	8
22	7625.030	washer	8
23	3203.055	selflocking nut M 14	8
24	7472.069	angle reinforce	2
25	9800.157	screw M 10 X 40	2
26	1351.019	angular crosspiece (left side)	1
27	1351.021	cross bar	1
28	1780.008	bolt M 10 X 1,5 X 40	2
29	1351.020	angular crosspiece horizontal	2
30	1351.022	cross bar	1
31	7625.020	washer diam.10,5	4
32	3203.016	nut M 10	4

R
15LD
ECOWIND



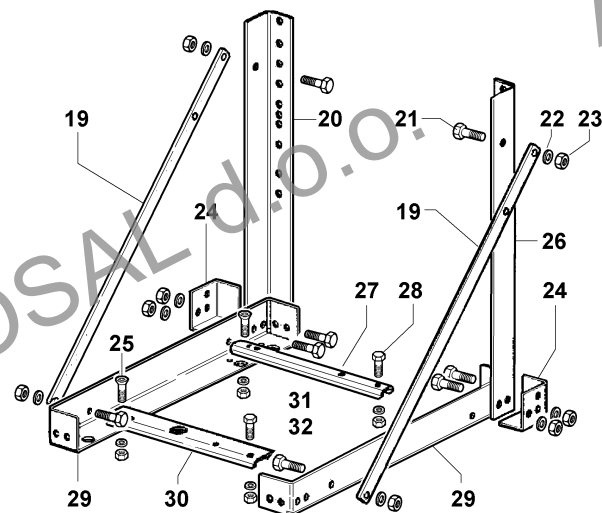
montaggio perpendicolare al
senso di marcia
perpendicular assembly to
the march direction

18



montaggio parallelo al senso
di marcia
parallel assembly to the march
direction

18



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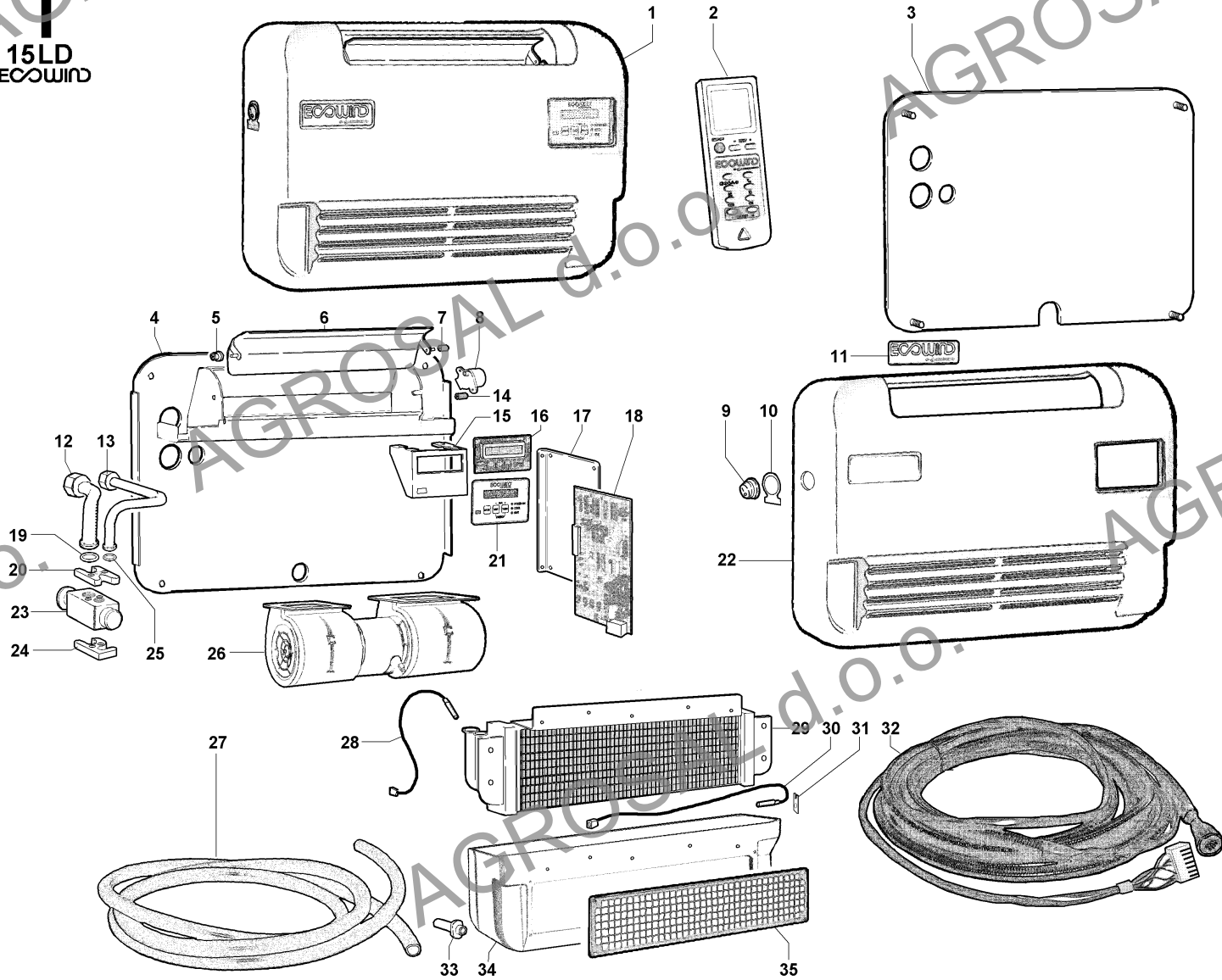
Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: T

SPLIT (INTERNAL UNIT)

POS.	CODE	DESCRIPTION	Qty
1	8486.001	complete split	1
2	9141.001	remote control	1
3	3147.229	split frame	1
4	8615.140	support split	1
5	1585.268	bushing	1
6	3147.228	directional fins ass.y	1
7	1585.269	bushing	1
8	5835.317	motor movement fins	1
9	5041.270	switch	1
10	5302.670	adhesive start/stop	1
11	9101.001	label logo	1
12	9452.007	tube valve G10	1
13	9452.006	tube valve G6	1
14	1585.271	spacer	3
15	5145.052	airtight plate	1
16	7248.099	card display	1
17	8545.907	brace	1
18	2193.176	card management split	1
19	1201.103	O ring G10	1
20	3895.017	flange	1
21	9101.004	keyboard	1
22	2165.128	cover split	1
23	9700.144	eXpansion valve	1
24	3895.016	flange	1
25	1201.102	O ring G8	1
26	5835.316	fan motor	1
27	9440.060	tube drainage condens	1
28	9280.020	probe temperature milimeter 650	1
29	1520.031	evaporating battery	1
30	9280.019	probe temperature	1
31	8830.010	support probe	1
32	2186.165	cable connection power unit-split	1
33	7325.044	connection drainage condens	1
34	2535.040	CONTAINER DRAINAGE WATER	1
35	3750.117	filter antipollen	1

T
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ECOWIND



**LOMBARDINI**

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Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: S

POWER UNIT			
POS.	CODE	DESCRIPTION	Qty
1	9346.102	tube gas G10	1
2	3240.163	nut M 8	2
3	7565.007	washer diam. 8	2
4	9730.024	screw M 8 X 16	1
5	1770.082	bolt M 8 X 1,25 X 28	2
6	7565.004	washer diam. 6	2
7	7625.070	washer diam. 6	2
8	3240.008	nut M 6	2
9	9790.039	screw M 6 X 12	1
01	9346.102	tube gas G10	1
10	2569.721	eXpulsion warm air conveyor	1
11	7625.256	washer diam. 10,5	1
12	1780.031	bolt M 10 X 1,5 X 25	1
13	7625.256	washer diam. 10,5	1
14	1780.027	bolt M 10 X 1,5 X 60	1
15	3203.016	nut M 10	1
16	9346.103	tube gas G8	1
17	7625.070	washer diam. 6	2
18	3203.109	nut M 6	1
19	1755.021	bolt M 5 X 45	3
20	771R.00	washer diam. 5,3	3
21	2942.206	inlet air elbow	1
22	3630.038	clamp diam. 32-52	1
23	4501.101	gasket	1
24	9540.109	eXhaust pipe	1
25	450R.03	gasket	1
26	3147.237	airtight plate	1
27	8345.918	brace	1
28	3525.130	spacer	1
29	2440.430	belt	1
30	1201.103	O ring G10	1
31	1157.357	eXternal volt.alternator 24V-50A	1
32	8615.141	alternator support	1
33	7625.026	washer diam.12	1
34	3203.096	nut M 12	1
35	1201.102	O ring G8	1
36	9730.401	screw M 12 X 120	1
37	9320.196	air suction tube	1
38	5065.106	airtight plate	1
39	3240.165	nut M 8	2
40	7565.007	washer diam. 8	2
41	1770.082	bolt M 8 X 1,25 X 28	2
42	7625.052	washer	2
43	9730.186	screw M 4 X 12	2
44	323R.004	nut M 10	4
45	7565.011	washer diam.10	4
46	7626.028	washer	4
47	1515.008	power unit complete base	1
48	5997.080	rubberizes	1
49	3525.129	spacer	4
50	2521.001	compressor (24V)	1
51	9730.045	screw M 10 X 30	4
52	7626.028	washer	4

Group: ECOWIND

Engine: 15LD 350 Ecowind Drawing: S

POWER UNIT			
POS.	CODE	DESCRIPTION	Qty
54	9730.045	screw M 10 X 30	3
55	3240.008	nut M 6	2
56	7565.004	washer diam. 6	2
57	7625.070	washer diam. 6	2
58	3203.019	nut	2
59	7625.316	washer	2
60	8825.014	fixing muffler support	1
61	7625.070	washer diam. 6	2
62	5461.067	exhaust muffler	1
63	3240.008	nut M 6	2
64	7565.004	washer diam. 6	2
65	6927.609	denoising panel	1
66	3630.038	clamp diam. 32-52	1
67	3240.008	nut M 6	2
68	2193.180	control power card	1
69	5041.270	switch	1
70	5041.271	switch	1
71	3630.163	clamp	2
72	7625.007	washer diam. 6	2
73	9732.084	screw M 6 X 12	2
74	3147.238	sheet attack tube aspiration	1
75	7565.004	washer diam. 6	2
76	7625.070	washer diam. 6	2
77	2186.174	cable connection power unit-battery	1
78	2193.175	wiring assembly	1
79	4160.016	locking nut	1
80	4160.017	locking nut	1

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15LD
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