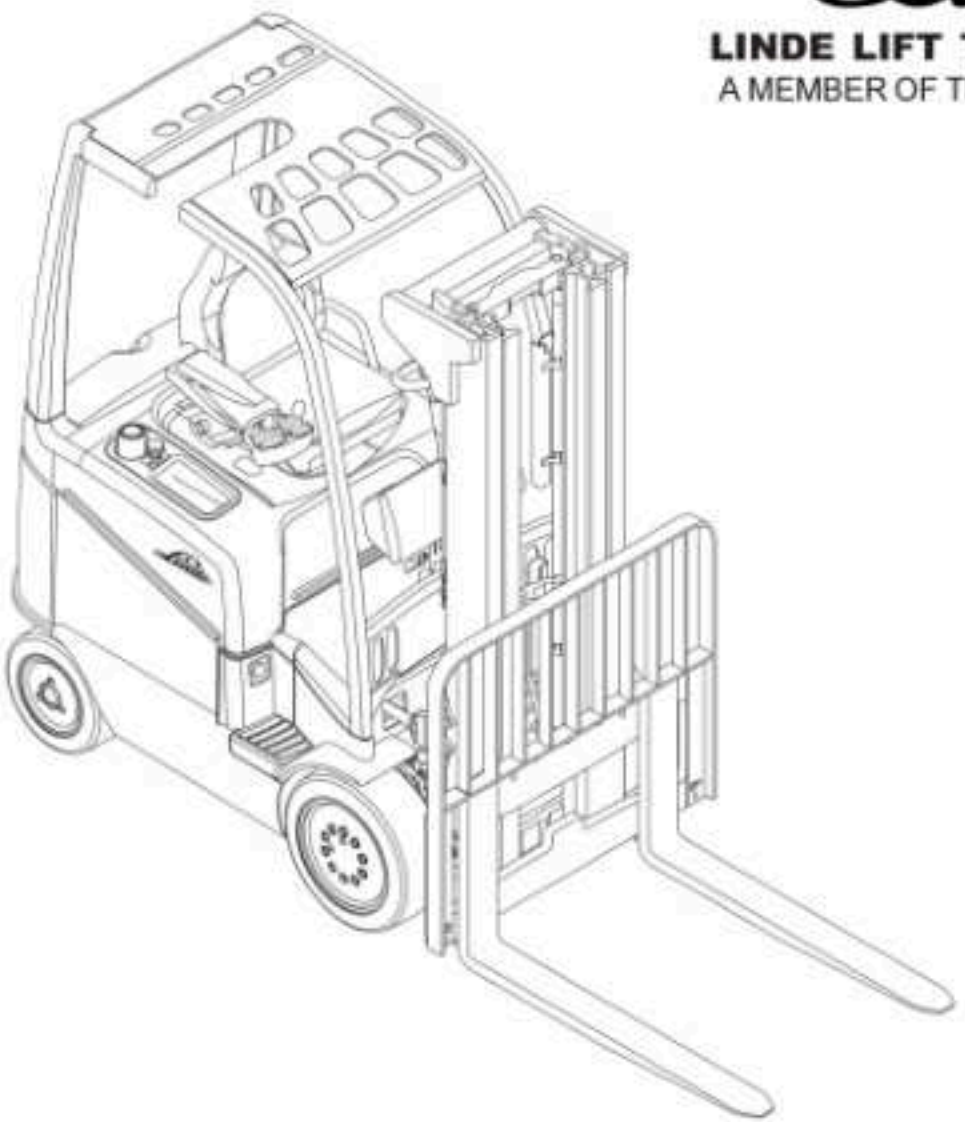
LINDE LIFT TRUCK CORP.
A MEMBER OF THE LINDE GROUP



347 Service Manual

Electric Powered Fork Lift Truck
E20C/600 E25C/600 E30C E30C/600

347 804 2401

Contracts #2792 thru 2795 March 2002

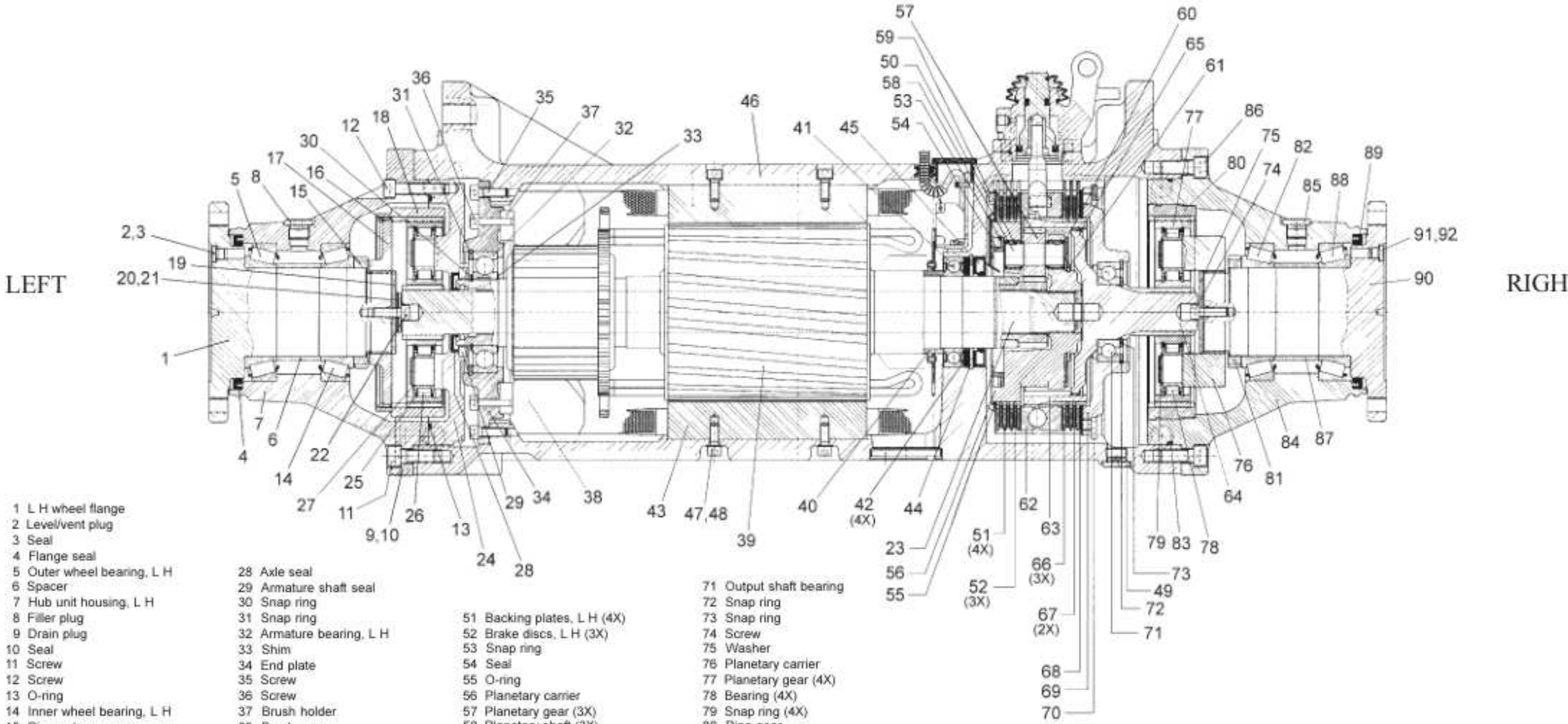
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No.	Comments	Fault Condition in Controller	Possible Causes
93	Pump motor brush wear indicator has detected worn brushes (only displayed while using the handset or when accessing fault codes using the dash pushbuttons)	Voltage at 2X1:3 = battery volts	Pump motor brushes worn and need replacing or fault in path 2X1:3 - 2X19:3 - 2M1 or fault in path 2X19:4 - L- or fault in path 2X1:13 - 1X14:8 - 1A1 or faulty Pump motor brushwear resistor 2R1 or faulty brush wear indicator in pump motor or faulty pump or traction controller
94	Drive motor brush wear indicator has detected worn brushes (only displayed while using the handset or when accessing fault codes using the dash pushbuttons)	Voltage at 2X1:5 = battery volts	Drive motor brushes worn and need replacing or fault in path 2X1:5 - 1X15:3 - 1M1 or fault in path 1X15:4 - L- or fault in path 2X1:13 - 1X14:8 - 1A1 or faulty Drive motor brushwear resistor 1R1 or faulty brush wear indicator in drive motor or faulty pump or traction controller
98	Drive motor has exceeded temperature limit (only displayed while using the handset or when accessing fault codes using the dash pushbuttons)	Voltage at 1X1:14 > 1.15V	Drive motor at thermal limit or fault in path 1X1:14 - 1X15:1 - 1M1 or or fault in path 1X15:2 - L- or faulty thermal sensor in drive motor or faulty traction controller
99	Maintenance hours has been exceeded	Displayed when the hourmeter has reached the user defined maintenance alert setting as defined by functions 19 and 20	Truck hourmeter is at preset maintenance setting or faulty controller

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No.	Comments	Fault Condition in Controller	Possible Causes
150	Capacitor volts are low after the line contactor closes	Capacitor volts < 85% battery volts in the run mode	Faulty line contactor or Poor power cable connections on the controller or Faulty power fuse F10 or Loose or open 2X1:1 connection or faulty controller
151	Capacitor volts are low before the lone contactor closes	Capacitor volts< 85% of battery volts on initial key switch on	Fuse F1 or F3 faulty or fault in path 2X1:1 - F3 or fault in path 2X1:2 - X7:1 - S1 or fault in path X7:2 - 6X4:1 - F1 or faulty current limiter or short between pump motor armature circuit and frame or faulty controller
157	Controller motor current sensor voltage input has wrong polarity	Current sensor voltage has wrong polarity	Faulty controller
180	Voltage at internal capacitor too low	Voltage at 2X1:1 < 14V	Faulty F3 fuse or fault in path 2X1:17 - 2X6:1 - 2K1 or fault in path 2X6:2 - X7:1 - S1 or contactor tips dirty or Faulty controller
181	Battery voltage less than 14V	Voltage at 2X1:1 < 14V	Faulty F3 fuse or fault in path 2X2:1 - F3 or faulty controller

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1 L H wheel flange
2 Level/vent plug
3 Seal
4 Flange seal
5 Outer wheel bearing, L H
6 Spacer
7 Hub unit housing, L H
8 Filler plug
9 Drain plug
10 Seal
11 Screw
12 Screw
13 O-ring
14 Inner wheel bearing, L H
15 Ring nut
16 Snap ring
17 Ring gear face plate
18 Ring gear
19 Washer
20 Shims
21 Washer
22 Screw
23 Lateral transfer axle
24 Planetary carrier
25 Planetary gear (4X)
26 Bearing (4X)
27 Snap ring (4X)
28 Axle seal
29 Armature shaft seal
30 Snap ring
31 Snap ring
32 Armature bearing, L H
33 Shim
34 End plate
35 Screw
36 Screw
37 Brush holder
38 Brush
39 Armature
40 Tachometer rotor
41 Armature bearing, R H
42 Spring washers (4X)
43 Field coils
44 Snap ring
45 Seal
46 Main housing
47 Washer
48 Screw
49 Drain plug
50 Baffle plate
51 Backing plates, L H (4X)
52 Brake discs, L H (3X)
53 Snap ring
54 Seal
55 O-ring
56 Planetary carrier
57 Planetary gear (3X)
58 Planetary shaft (3X)
59 Bearing (6X)
60 Seal
61 Snap ring
62 Expander ring
63 Ring gear
64 R H side output shaft
65 Snap ring
66 Backing plates, R H (3X)
67 Brake discs, L H (2X)
68 Shim(s)
69 Bearing plate
70 Snap ring
71 Output shaft bearing
72 Snap ring
73 Snap ring
74 Screw
75 Washer
76 Planetary carrier
77 Planetary gear (4X)
78 Bearing (4X)
79 Snap ring (4X)
80 Ring gear
81 Ring nut
82 Inner wheel bearing, R H
83 O-ring
84 Hub unit housing, R H
85 Filler plug
86 Screw
87 Spacer
88 Outer wheel bearing, R H
89 Seal
90 R H wheel flange
91 Seal
92 Level/vent plug

Transaxle Sectional View

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