



GO-GDE-PAV-014

MAINTENANCE GUIDE AND SCHEDULE

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Graco LineDriver ES 25U671

Maintenance reference for the battery electric LineDriver ES ride-on attachment. It covers the daily checks, the service schedule, the jobs your own workshop can do, and the jobs that come to GO Industrial as a Graco authorised service agent. Every interval and part number in this guide is read from Graco manual 3A9034.

3 x 50 Ah

lithium batteries, 24 VDC
pack

650 mL

transaxle oil, the only
fluid on board

10-12 h

full charge from flat

What you are actually maintaining

The LineDriver ES is a ride-on chassis, not a striper. It docks a walk-behind LineLazer, FieldLazer or GrindLazer and drives it, so the striper keeps its own service schedule and this guide covers the chassis only. The chassis splits three ways: the battery pack and charger, the drive (traction motor, motor controller and transaxle), and the running gear (tyres, brakes, coupler and seat interlock).

Why the list is short

There is no engine on this machine. No engine oil, no air filter, no spark plug, no fuel system, no exhaust. There is no hydraulic pump, reservoir or oil filter either. The drive is a sealed transaxle with one oil fill: the level is checked once a year and the oil is changed every three. Everything else on the schedule is inspection, adjustment and charging, and most of it needs nothing more than a tyre gauge, a socket set and somewhere to plug in.

• WHO DOES WHAT

Charging, wheels and tyres, brake rod adjustment, coupler adjustment, lights and fuses are workshop jobs your own team can do with hand tools. Accelerator calibration, transaxle oil changes, traction motor, motor controller and battery pack work, and anything under warranty, come to GO Industrial as a Graco authorised service agent. Opening the drive yourself outside the manual can cost you the warranty.



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Before every shift

- Check the battery charge level and charge it if it is not full. Scan the QR code on the machine for the battery app if you want an exact state of charge.
- Inspect the coupler for excess movement and adjust it if needed. Replace the coupler once it can no longer be tightened.
- Test the seat interlock. Park brake on, power on, stand beside the machine and tap the pedals: it must not try to move. Sit on the seat and tap the pedals: it must try to move. Fail either half and the machine is out of service until the switch is fixed.
- Test the park and emergency brake. On flat open ground get to 5 km/h, switch the power off so the machine freewheels, then stop it on the brake alone.
- Check tyre pressure against the figure on the tyre sidewall. Brake rod clearance is set off inflated tyres, so soft tyres change your stopping distance.
- Walk around it. Wheel nuts, coupler pin, cables, charging port, seat, tool tray and the LED light.

What the machine is telling you

SIGNAL	WHAT IT MEANS
One tone at power on	Direction and speed pedals are now live.
Voltage meter flashing	About one hour of runtime left.
Tone once a second	Batteries are flat. Shutdown is imminent.
Continuous tone	Over 10 km/h. Pedal braking is reduced.

• FREEWHEEL

The ES rolls freely whenever the power is off, and it rolls harder on a slope. Engage the park and emergency brake before you switch off or stand up, and never switch the power off while the machine is moving. Do not work slopes over 7.5° (13%), and select Incline/ECO mode on any grade: it caps forward speed at 9 km/h and reverse at 6 km/h and gives you far better control.





Charging

- Charge in a dry, well ventilated spot away from paint, solvent and anything else that burns. Park it with the wheels on a properly earthed surface, not on pavement.
- Power switch off, then plug the charging cord into the port on the machine and into a properly earthed outlet. Do not modify the plug to make it fit.
- From flat a full charge takes 10 to 12 hours. Four hours gets it to three quarters.
- Unplug the charger as soon as the indicator goes solid green. Never leave it plugged in past 24 hours. F codes on the display are internal charger faults, E codes external.
- Charge between 0 and 45°C (32 to 113°F). The machine runs from -10 to 60°C (14 to 140°F) but will not charge outside that narrower window.

Making the pack last

- Use the whole pack on the job. Graco's 20% figure is storage guidance, not an operating floor. What matters in use is depth of discharge: a pack routinely taken to 50% gets more than twice the cycles of one run flat every day.
- Top it up between runs rather than waiting for the warning. The voltage meter flashes at about one hour remaining, and the buzzer only starts once the pack is nearly done.
- Three batteries ship standard. A fourth can be fitted for more runtime.
- Never mix battery types or brands. A new battery can run alongside older ones of the same type.

Storage between jobs

ITEM	HOW TO STORE IT
State of charge	Store at 30 to 70%. Never at 100%, never under 20%.
Temperature	15 to 35°C (59 to 95°F). Limit 0 to 45°C.
Charger	Unplugged from the wall for the whole period.
Location	Indoors and dry. Keep it out of the rain.
Disposal	Not general waste. Use a licensed battery recycler.



Maintenance schedule

INTERVAL	TASK	WHO
Every shift	Charge to full. Unplug when it finishes.	Workshop
Every shift	Run the daily inspection on page 2.	Workshop
Weekly	Wash down. Clear paint, bead and dust off the wheels and deck.	Workshop
Weekly	Check wheel nuts and brake rod clearance.	Workshop
Monthly	Check tyres, cables and the charging port.	Workshop
As needed	Brake rod and coupler adjustment.	Workshop
As needed	Tyre, wheel, light and fuse changes.	Workshop
Annually	Check the transaxle oil level.	Workshop
Annually	Service inspection: drive, brakes, coupler and battery condition.	GO
Every 3 years	Transaxle oil change. 650 mL (22 oz) Mobilfluid 424.	GO
Every 5 years	Replace the tyres, or sooner on wear.	Workshop
On fault	Calibration, motor controller, traction motor, transaxle, battery pack.	GO
Long storage	Pack at 30 to 70%, charger unplugged.	Workshop

• WHERE THESE INTERVALS COME FROM

Graco publishes four intervals for this machine: the daily inspections, an annual transaxle oil level check, a transaxle oil change every three years, and tyre replacement every five years or sooner. The weekly, monthly and annual service lines are GO Industrial's recommendation for Australian pavement work, where paint dust, glass bead and wash-down do more damage to a machine than hours on the clock.



Jobs your own workshop can do

Tyres and wheels

Jack the frame, remove the four lug nuts, swap the wheel, tighten alternately. Wheel 249083, nut 125481.

Coupler adjustment

Power off. Check the ball and coupler for wear first. If it will not tighten, replace the coupler, 116889.

Charging

A workshop job start to finish. Scan the QR code on the machine for the battery app if you need an exact state of charge.

Brake rod adjustment

Inflate the tyres first. Pick the hole pattern that sets the rod 3 to 6 mm (1/8 to 1/4 in.) off the tyre, then refit both bolts.

Lights and fuses

LED light 17R098. A blown 10 amp fuse kills the light. The 20 and 300 amp fuses kill the drive.

Cleaning

Clear material packed around the wheels. It drags the pack down and reads like a failed battery.

Quick checks before you call anyone

SYMPTOM	FIRST THING TO CHECK
Will not move, meter on	Sit on the seat. Pedals off before power on.
Will not move, meter off	Charge it. Check the 20 and 300 amp fuses.
Only moves slowly	Park brake on, ECO mode on, or the pack is low.
Creeps with no pedal	Throttle linkage out of adjustment. Book it in.
Flat in under 6 hours	Brake dragging, wheels fouled, or a dead cell.
Brake will not hold	Tyre pressure low, or the rod needs adjusting.
Charger not charging	Pack above 25.0 V, or a charger fault code.

• WHAT NOT TO TOUCH

The motor controller, traction motor and transaxle are not workshop items. The three main motor cables land on a plastic terminal block that breaks easily, the accelerator has to be recalibrated to 2.45 volts at neutral with Graco kit 25N880 after drive work, and the transaxle cover is sealed with RTV silicone. Get it wrong and the machine creeps.





Work that comes to GO Industrial

- Accelerator calibration. Graco kit 25N880, a calibration plate and a multimeter. Neutral is 2.45 volts plus or minus 0.05.
- Transaxle oil change. The cover is sealed with RTV silicone, so it has to be cleaned and resealed, refilled with 650 mL (22 oz) of Mobilfluid 424 and levelled with the coupler 265 to 320 mm (10.5 to 12.5 in.) off the floor.
- Transaxle or traction motor replacement. Jack stands, wheels off, and three main cables off a plastic terminal block without damaging it.
- Motor controller replacement, including the 35 pin connector and the creep check afterwards.
- Battery pack work. Load test first, then replace as a set of the same type. Positive on before negative, negative off before positive.
- Controller fault codes. The red and yellow LEDs flash a two digit code that maps to a fault table in the manual.
- Anything under warranty. Graco ANZ covers 2021 and later ride-on attachments for 3 years on all components, batteries included, and GO lodges the claim for you. Cover holds only where the machine has been maintained to Graco's written recommendations.

What to send with the machine

DETAIL	WHY WE NEED IT
Serial number	Off the ID plate. Month letter, then the year.
The symptom	Will not move, creeps, drops charge, no lights.
Fault code	The red and yellow LED flash pattern, if there is one.
Battery reading	State of charge from the app, and charge duration.

• SERVICE AND WARRANTY

GO Industrial is a Graco authorised service and warranty agent. We service on site, in our workshop, or by nationwide freight collection, and we will walk a fault through on a video call before anything moves. Call 07 3204 2240 or email sales@goind.com.au.



What the ES does not need serviced

Both machines are ride-on attachments on the same running gear. The difference is everything the petrol engine and its hydraulics drag along with them.

ITEM	ES 25U671 (BATTERY)	HD 262005 (PETROL)
Power unit	3 x 50 Ah lithium, 24 V	Honda GX200, 6.5 hp
Engine oil	None fitted	20 h, then every 100 h
Air filter	None fitted	Weekly. Daily in dust
Spark plug	None fitted	NGK BPR6ES, 0.7 to 0.8 mm gap (0.028 to 0.031 in.)
Fuel	None. Plug it in	3.6 L (0.95 gal), filled daily
Hydraulic oil	None fitted	1.9 L (2 qt) Mobil 1 15W-50
Hydraulic filter	None fitted	Graco 245342, yearly
Pump and hoses	None fitted	Pump, 2 motors, 4 hoses
Clutch	None fitted	247631, wear item
Exhaust	None fitted	Hot surface, keep clear
Drive oil	Transaxle, 3 yearly	In the hydraulic oil
Noise at seat	Under 70 dB(A)	94 to 102 dB(A)
Fumes	None	Petrol exhaust

What both machines still need

ITEM	ON BOTH MACHINES
Tyres	Two pneumatic wheels, 249083. Five year life.
Brakes	Two rods, 3 to 6 mm (1/8 to 1/4 in.) off the tyre.
Coupler	Ball coupler 116889 with pin 113696.
Seat interlock	Safety switch 116833, tested every shift.
Lights	LED light 17R098 on both machines.



What the difference is worth

On the petrol machine you are buying engine oil, an air filter, a spark plug, fuel, hydraulic oil and a hydraulic filter, and booking an engine service every hundred hours. On the ES the whole consumable list is one transaxle oil change every three years and a set of tyres every five. The trade is charging discipline. The pack goes on the charger at the end of the shift and comes off when it is full.

Parts and fluids to keep on the shelf

ITEM	PART NUMBER
Lithium battery	25U602. Three fitted. A fourth can be added.
Battery charger	25N480. Australian cord 17R033.
Wheel assembly	249083, pair. Wheel nut 125481.
Ball coupler	116889. Coupler pin 113696.
Brake rods	19B111 right, 19B112 left.
Seat switch	116833. Tested every shift.
LED light	17R098. Light kit 25N778.
Fuse, 300 amp	131738. Holder 17N816.
Transaxle oil	Mobilfluid 424. 650 mL (22 oz) per fill.
Transaxle kit	25N762. Traction motor kit 18H262.
Motor controller	19C163 series B, 2002466 series A.
Calibration kit	25N880. Used by GO on any drive work.

• WHERE THIS GUIDE COMES FROM

Every interval, fluid and part number here is read from Graco manual 3A9034 for the LineDriver ES Lithium (25U670 and 25U671), and manual 312540 for the LineDriver, LineDriver HD and LineDriver HD Electric Start (262004, 262005 and 25U474). Check the current manual revision before a warranty claim. GO Industrial, 07 3204 2240, sales@goind.com.au, goind.com.au.

