



GRACO LINELAZER V 200HS · PETROL HYDRAULIC

200HS Service Guide

Engine, hydraulics, front wheel and fluid section

Applies to	Sources	Document	Issued
LineLazer V 200HS, all series	Graco 3A3426 and 3A3390	GO-GDE- PAV-021	September 2026

Step-by-step service for the 200HS, in the order you work on it.

What is in this guide

PART	PAGE	WHAT IT COVERS
Part 1	2 and 3	Pressure relief, tools and machine layout
Section 1	4	Engine air filter and spark plug
Section 2	5 to 8	Hydraulic oil and filter, belt, seals, front wheel
Section 3	9 and 10	Stripping and repacking the fluid pump
Section 3	11 and 12	Manifold filter, drain valve, strainers, guns, tips
Part 4	13	Service parts list and schedule



Authorised Warranty and Repair Agent for Graco Australia

Warranty claims, scheduled service and genuine parts are handled in house at Deception Bay, with Direct Freight collection nationwide and on site commissioning and training.



PART 1 • BEFORE YOU START

Pressure Relief and Tools

The machine holds fluid pressure after the engine stops. Run this procedure before any work in this guide. At 3300 psi, fluid can inject through skin. If it does, get medical help straight away.

Pressure relief procedure

- 1. Engage the trigger lock on every gun.
- 2. Set the pump switch to OFF, then turn the engine OFF.
- 3. Turn the pressure control to its lowest setting.
- 4. Release the trigger lock. Hold each gun against a grounded metal pail and trigger it until the pressure is out.
- 5. Engage the trigger lock again.
- 6. Turn the prime and spray valve to drain, and leave it there until you spray again.
- 7. If the tip or hose is still blocked, slowly loosen the guard nut or hose coupling to bleed off the rest, then clear it.

Tools and consumables

TOOL OR CONSUMABLE	FOR	NOTE
Two 12 in adjustable wrenches	Pump strip down	Plus a vise and 20 oz hammer
Torque wrench, ft-lb and in-lb	Pump rebuild	Torques on page 10
Feeler gauge	Spark plug gap	0.7 to 0.8 mm
Drip tray and rags	Hydraulic oil change	Holds 4.73 litres
SAE 30W oil	Soaking leather packings	At least one hour before a repack
Throat seal liquid	Every shift	206994, 206995 or 206996
Pump Armour	End of every day	243104 or 245133

• Warranty

LineLazer V strippers built from 2021 carry a three year Graco ANZ warranty, not the twelve months in the manual. It covers the pump, gun, engine, drive, frame, electronics and factory hoses. Service to these intervals with the specified fluids to keep it valid. Call GO before sending anything in.



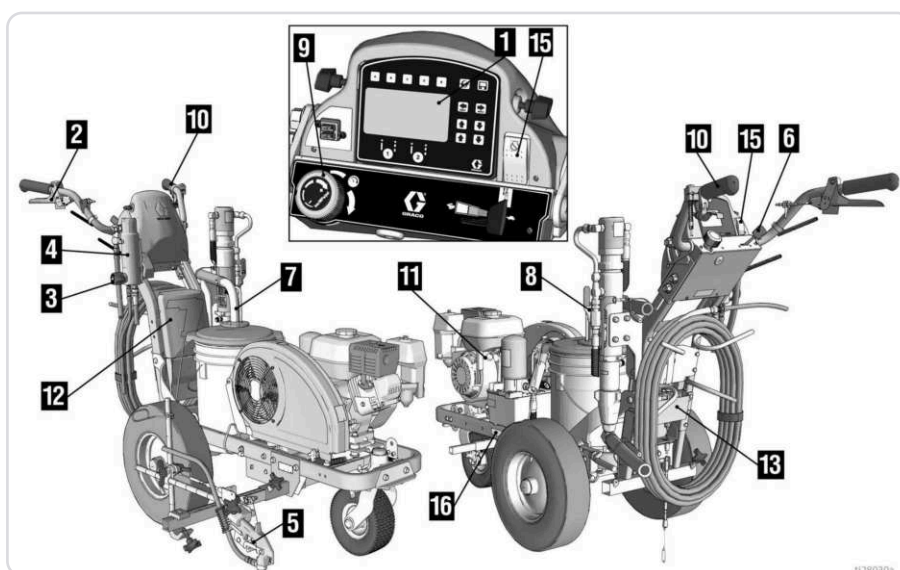
PART 1 • THE MACHINE

Know Your 200HS

All 200HS models share the same base machine. Gun count and the bead system are the only differences.

Models this guide covers

- Standard Series, manual guns: 17H459 and 17H461.
- HP Auto Series: 17K582, 17H462, 17K637, 17H463, 17K583 and 17H464.
- HP Reflective Series, with pressurised bead: 17H460, 17J964, 17K585 and 17H465.
- All of them run the Honda GX200, 6.5 hp, 3300 psi and 8.14 L/min.
- Maximum tip is 0.047 on one gun, 0.034 with two.
- Check the model on the ID plate before ordering parts.



Component identification, LineLazer V 200HS. Source: Graco manual 3A3426.

Controls you will use in this guide

CONTROL	WHERE	WHAT IT DOES
Pump ON and OFF	Beside the pump	Isolates the fluid pump from the motor
Prime and spray valve	Under the manifold	Sends fluid to the drain, not the guns
Pressure control	Control plate	Sets fluid pressure
Engine STOP	Handle bar	Stops the engine. Does not relieve pressure

SECTION 1 • ENGINE

Engine Service, Honda GX200

If the machine will not build pressure, check the engine first.

Air filter and spark plug, step by step

- Stop the engine, let it cool, and pull the spark plug lead off.
- Unclip the air filter cover and lift the element out.
- Tap paper clean, wash foam in warm soapy water and dry it. Replace anything oily or torn.
- Refit the element and cover. Seat it properly or dust gets into the engine.
- Remove the plug with a plug wrench. A socket on a long extension can crack the porcelain.
- Gap the new BPR6ES to 0.7 to 0.8 mm, then wind it in by hand until it seats.
- Tighten it, refit the lead, and test run the engine before the covers go back on.

What the engine takes

PART OR FLUID	SPECIFICATION	PART NUMBER
Engine	Honda GX200, 6.5 hp at 3600 rpm	116080
Engine oil	SAE 10W-30 summer, 5W-30 winter	Honda spec
Air filter element	Weekly, daily in dust	17210-Z4M-821
Spark plug	NGK BPR6ES or Nippondenso W20EPR-U	BPR6ES
Plug gap	0.7 to 0.8 mm, 0.028 to 0.031 in	Feeler gauge
Throttle, no load	3700 to 3800 rpm	Reset if it drifts
Oil change	First 20 hours, then every 100 hours	Check level daily

• Engine oil and warranty

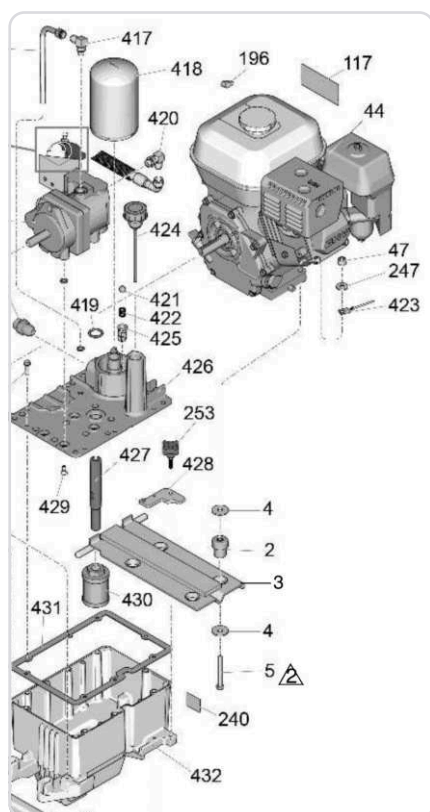
Use SAE 10W-30 in summer and 5W-30 in winter. The engine is covered by the three year Graco ANZ warranty, so call GO before taking an engine fault anywhere else.

SECTION 2 · HYDRAULIC PUMP AND MOTOR

The Hydraulic Pump, Motor and Reservoir

The belt drives the hydraulic pump, the pump drives the hydraulic motor, and the motor drives the fluid pump. The reservoir holds 4.73 litres and working pressure is 1825 psi (124 bar).

Reference numbers follow Graco parts manual 3A3390.

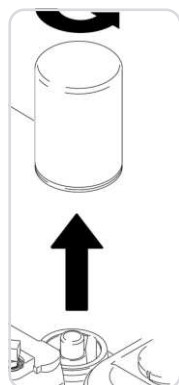


What is in the hydraulic circuit

REF AND PART	WHAT IT IS
44 · 116080 engine	Honda GX200. Turns the belt and the hydraulic pump
415 · 287179 pump kit	Hydraulic pump. 287179 is its repair kit
418 · 246173 filter	Hydraulic oil filter. Changed with the oil, every time
424 · 120726 cap	Breather and filler cap. Where the oil goes in
430 · 116919 screen	Suction screen inside the reservoir
431 · 120604 gasket	Reservoir gasket. Renew it if the tank is opened

Engine, hydraulic pump, filter and reservoir. Source: Graco parts manual 3A3390.

Changing the hydraulic oil and filter, every 500 hours or 3 months



1. Relieve pressure, then put a drip tray under the machine.
2. Remove the drain plug and let the oil out.
3. Unscrew the filter slowly. The oil runs into the groove and drains out the rear.
4. Wipe a light film of oil on the new filter gasket. Fit the drain plug and the filter, then tighten the filter three quarters of a turn after the gasket touches the base.
5. Fill with 4.73 litres (5 US quarts) of synthetic ISO 46 hydraulic oil, viscosity index 154 or higher.
6. Check the level.

Use ISO 46 only.

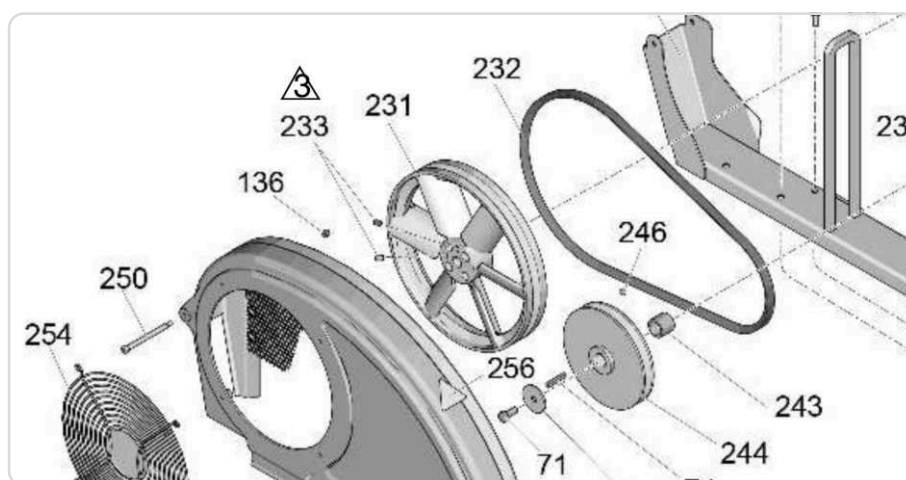
SECTION 2 · BELT AND CHASSIS

Belt, Reservoir, Seals and Caster

Drive belt change, plus the reservoir, seal and caster jobs.

Changing the drive belt

- Stop the engine, pull the plug lead, and let the exhaust cool.
- Take the belt guard 249 off, then the fan guard 254 if it is in the way.
- Slacken the engine mounting hardware so the engine can move on its bracket 15F485.
- Roll the old belt off the fan pulley 231 and the 5.5 in pump pulley 244.
- Fit 119433, take up the slack by moving the engine, then tighten the mounts evenly.
- Refit both guards before starting. Torques are marked on the drawing in 3A3390.



Belt, pulleys, fan and belt guard. Source: Graco parts manual 3A3390.

Other jobs in this area

PART	NUMBER	WHAT TO DO
Suction screen	116919	Drain the oil, lift cover 15M057, pull it off tube 15E587 and wash
Reservoir gasket	120604	Renew it whenever the cover comes off
Hydraulic seal kit	246174	Rod wiper, packings and piston seal. Fit when oil weeps at the rod
Front caster cable	241445	Steps on page 7. Replace if frayed or it will not lock

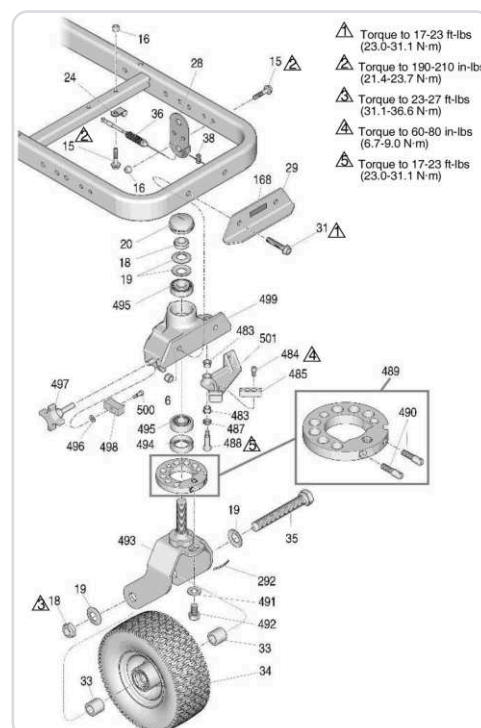
SECTION 2 · FRONT WHEEL

Caster Cable and Caster Care

The handlebar lever pulls cable 241445 to unlock the caster, so the front wheel swivels. Release the lever and the wheel locks straight for marking.

Changing the caster cable

- Park on flat ground, stop the engine and set the parking brake. Take a photo of the cable run first.
- At the caster, slacken wire stop 38 and pull the inner wire free of detent arm 501.
- Unclip the cable from the frame, unhook the top end from the lever on the handlebar and pull the old cable out.
- Feed the new 241445 in along the same path and hook it onto the lever. Clamp it clear of the tyre, belt and exhaust.
- Pass the inner wire through bracket 28 and spring 36 to the detent arm, and refit wire stop 38.
- Adjust so the wheel locks fully with the lever released and swivels freely when it is pulled. Test it several times.



Front caster, cable and EZ-Align disk. Torques are marked on the drawing. Source: Graco parts manual 3A3390.

Caster care

JOB	WHEN	WHAT TO DO
Wheel bearing	Monthly	Grease the front wheel bearing
Caster bearing nut	Once a year	Tighten nut 18 under dust cap 20 until the spring washer bottoms out, then back it off 1/2 to 3/4 turn
Caster pin	When the wheel has play	Reverse the pin, or replace it when both sides are worn
Straight line	When it drifts	Reset it at the EZ-Align disk, page 8

SECTION 2 · FRONT WHEEL

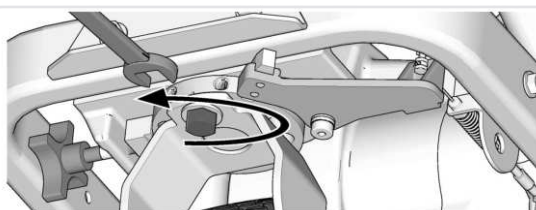
Front Wheel Straight Line

If the striper pulls to one side when you are not steering, reset the front wheel. No parts needed.

Check these first

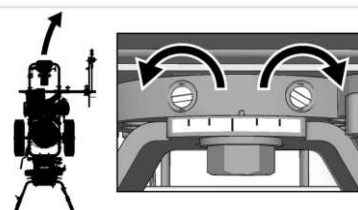
CHECK	SET TO	WHY
Ground	Flat and level, 20 m chalk line	Camber pulls the machine downhill
Rear tyres	55 psi (380 kPa), both sides	An uneven pair pulls to one side
Caster lock	Locks fully, lever released	A loose lock lets it wander, page 7
Front wheel	No play at the caster	Play will not adjust out, page 7

Adjusting the front wheel



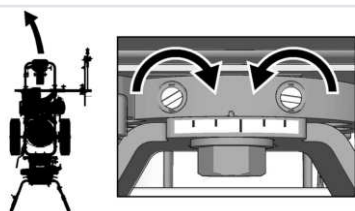
1 Loosen the bracket bolt

Loosen the bolt on the front wheel bracket so the EZ-Align disk can turn.



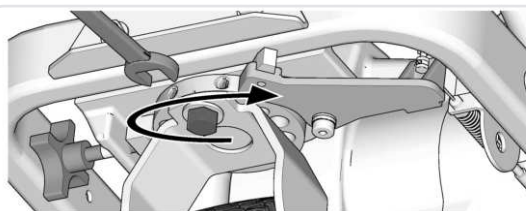
2 Arcs right

If the striper arcs to the right, loosen the left set screw and tighten the right set screw.



3 Arcs left

If the striper arcs to the left, loosen the right set screw and tighten the left set screw.



4 Test and lock

Roll it along the chalk line, repeat 2 and 3 until it runs straight, then tighten the bolt.

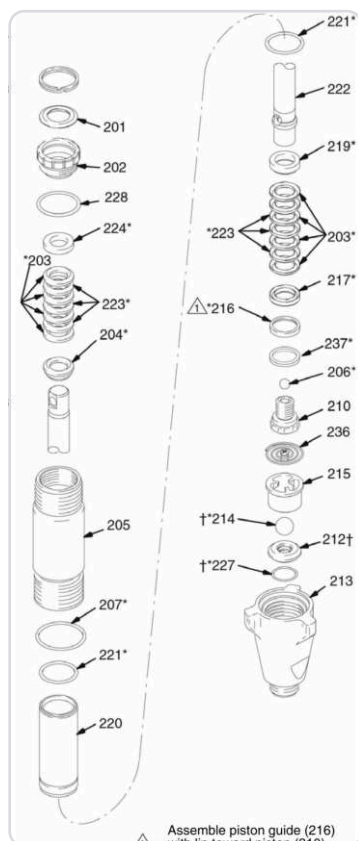
• Still pulling to one side?

If the set screws run out of travel, or it will not hold once the bolt is tight, the caster parts are worn. Call GO service on 07 3204 2240.

SECTION 3 · FLUID SECTION

Pump Strip Down

Kit 246341 repacks pump 277068 on the machine. Reference numbers follow Graco pump manual 309277. Read this page and the next before starting.



What is in kit 246341

REF AND PART	WHAT IT IS
203 · 198701	Blue UHMWPE V-packings, eight
223 · 198718	Leather V-packings, six
204, 224 glands	Male and female throat glands
216 · 119636	Plastic piston guide
206, 214 balls	Piston ball and intake ball
207, 221, 227, 237	O-rings and the backup washer

Displacement pump 277068, exploded. Source: Graco pump manual 309277.

Taking it apart

Tools: a vise, two 12 in adjustable wrenches, a 20 oz hammer, a small screwdriver and a pick.

1. Relieve pressure, then unscrew intake valve 213 off the bottom of the cylinder.
2. Push the retaining spring up with a screwdriver and push the pin out of the piston rod.
3. Draw the piston rod and sleeve down out of the cylinder.
4. Turn the rod and sleeve upside down and tap them on a hard surface until the rod comes free.
5. Remove packing nut 202, then push the rod back into the cylinder to force the old throat packings out.
6. Unscrew piston valve 210 off the rod with a wrench and strip the old piston packings and glands.
7. Clean and inspect. Replace any part with nicked ball seats, or a scored sleeve or rod.

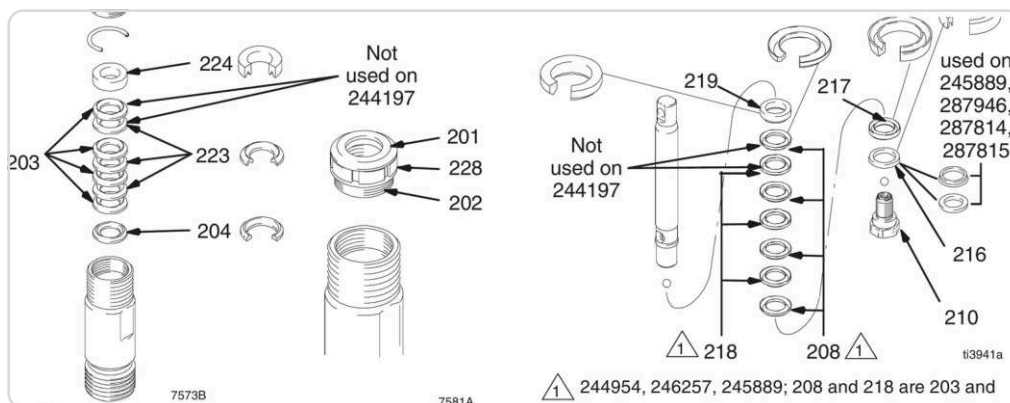
SECTION 3 • FLUID SECTION

Pump Rebuild

Soak the leather packings in SAE 30W oil for at least an hour before you start.

Putting it back together

- Throat: male gland 204, alternating blue 203 and leather 223 packings, female gland 224, then seal 201, nut 202 and spacer 228.
- Piston: male gland 219, alternating 203 and 223 packings, female gland 217, then guide 216 lip toward valve 210.
- Fit ball 206 in the rod, screw the piston valve on and torque it.
- Grease the piston packings and the top edge of the sleeve, then slide the piston in.
- Check no u-cup has rolled over, then grease the top 25 mm of the rod.
- Fit o-ring 221 to the sleeve, slide it into the cylinder, refit the pin and spring.



Throat packing stack, left, and piston packing stack, right. Source: Graco pump manual 309277.

Torques for pump 277068

JOINT	TORQUE	NOTE
Piston valve onto rod	100 ft-lb ± 5, 136 N·m	Thread patch lasts four repacks
Packing nut onto spacer	140 in-lb ± 10, 15.8 N·m	Use a torque wrench
Intake valve onto cylinder	200 ft-lb ± 10, 271 N·m	New o-ring 227 first
Throat weeping later	Remove spacer 228, tighten the nut	Good for about 380 litres

SECTION 3 · FLUID PATH

Filter Manifold, Lines and Drain Valve

Paint runs from the pump, through the manifold filter, down the hose and out the tip. A blockage anywhere along the way shows up as low pressure at the gun.

Changing the manifold filter and its o-ring

- Relieve pressure, then turn the prime and spray valve to drain.
- Unscrew the filter cap 287285 by hand off the manifold 17K166.
- Lift the filter 25A465 and diffusion tube 15C766 out together. Note which way up.
- Pick the o-ring 117285 off the cap, grease a new one lightly and fit it.
- Flush the filter, or replace it if it will not come clean.
- Refit tube and filter the same way up, then hand tighten the cap. No tools.
- Prime, then check the cap is dry before marking.

The rest of the fluid path

PART	NUMBER	WHAT TO DO
Filter manifold	17K166	Stays on the machine. Everything unscrews from it
Filter cap, with tube and o-ring	287285	Hand tight only. Renew the o-ring each time
Fluid filter, 50 mesh	25A465	Lift out with the tube. Flush or replace
Cap o-ring	117285	Grease lightly. It seals the cap
Diffusion tube	15C766	Inside the filter. Refit the same way up
Drain valve assembly	245103	Relieve pressure, unscrew, fit the new assembly
Inlet strainer, 16 mesh	187147	Unscrew from each suction tube and wash. Two fitted

● Ordering filters and strainers

Manifold filter 25A465. Inlet strainer 187147, two per machine. Quote the machine model and part number when ordering.

SECTION 3 • GUNS AND TIPS

Spray Guns, Tips and Gun Filters

The 200HS runs Flex Plus guns, manual or automatic. See Graco manual 311254.

Gun and tip hardware

PART	WHAT IT IS	NUMBER
Spray guns	Flex Plus, manual or automatic	Manual 311254
Tip guard	RAC 5 HandTite, 7/8 in thread	243161
Seal, waterborne	OneSeal, five pack	243281
Seal, solvent	RAC 5 solvent OneSeal, five pack	224081

LL5 tip codes give line width at a 152 mm stand-off, not fan angle. LL5621 to LL5639 lay 300 mm. Maximum tip is 0.047 on one gun, 0.034 with two.

LL5 line widths

TIP SERIES	LINE WIDTH	NOTE
LL5213 and LL5215	50 mm	The only 50 mm tips in the range
LL5217 to LL5355	100 mm	LL5319 is the common council tip
LL5417 to LL5435	150 mm	LL5421 pairs with LL5319 in most kits

Tip life

- Measure the fan on a test board when the tip is new. Write it on the box.
- Replace the tip once the fan is 25 percent narrower.
- Clean the tip and gun filter before opening the pump. A blocked tip looks like a worn pump.

• Tip wear and compliance

A worn tip puts down more paint per metre. Film builds up, beads sink too deep and retroreflectivity drops. Film thickness is the first thing to fail an ATS 4110 reading.

PART 4 · PARTS AND SCHEDULE

Service Parts and Schedule

Every part this guide calls for, in one list.

The service parts list

PART	WHAT IT IS FOR	NUMBER
Hydraulic filter	Every hydraulic oil change	246173
Hydraulic oil, 3.8 L	Synthetic ISO 46, VI 154 or higher	207428
Hydraulic suction screen	Reservoir service	116919
Reservoir gasket	Whenever the tank is opened	120604
Hydraulic seal kit	Motor rod seals and packings	246174
Drive belt	Yearly or 2000 hours	119433
Pump repair kit	Repacking pump 277068	246341
Manifold filter, cap and o-ring	200HS fluid filtration	25A465, 287285, 117285
Prime and spray drain valve	Daily check, replace on wear	245103
Inlet strainer	16 mesh, two fitted	187147
Front caster cable	EZ-Align front wheel	241445

Consumables and GO service

- Throat seal liquid: 206994 at 240 ml, 206995 at 950 ml, 206996 at 3.8 L. Every shift.
- Pump Armour: 243104 at 950 ml or 245133 at 3.8 L. Every end of day.
- Hydraulic oil: synthetic ISO 46, viscosity index 154 or higher, 4.73 litres a change.
- Three year Graco ANZ warranty on machines built from 2021, engine included.
- Book scheduled service before the season. Parts lead times are the main hold-up.



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