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BTW: NL8224.56.862.B01

ING: 4950145
BIC: INGBNL2A

IBAN: NL15INGB0004950145

NGH GF38cc 4-stroke Gasoline Engine Instruction

Dear customers:

Thank you for purchasing new NGH GF38cc 4-stroke gasoline engine, please read this instruction carefully before your operation.

Specifications:

Type: 4-stroke Air cooled Gasoline Engine for Model Airplane Use Only

Displacement: 37.97cc Bore*Stroke (mm): 39*31.8

Compression ratio: 9

Carburetor: Walbro custom WT1022

RPM range: 1800-8000rpm Spark plug type: CM-6 Break in fuel oil ratio: 25:1 General use fuel oil ratio: 35:1

Recommended propellers: 18*10, 19*8, 19*10, 20*8

Weight: 1310g

Safety WARNINGS:

- 1. This engine isn't a toy! Misusing can cause serious injury!
- 2. This engine can cause severe harm to you, and/or others, if misused or there safety cautions and warnings are not observed, NGH and dealers aren't responsible for any loss, injury or damages resulting from the miss-use of RC model engines.
- 3. Keep away from the rotating propeller area while operating the engine.
- 4. Before every use, check engine assembly, propeller and airframe carefully for loose screws and nuts.
- 5. Turn off the engine before making any adjustments.
- 6. Always check propeller nut tightening.

Carburetor:

- 1. This engine uses a Walbro custom WT1022 with a remade arm.
- 2. Same adjustments as usual.



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Lubricating:

- 1. There are two nipples on Intake manifold. One pressurizes to carburetor from crankcase, and one is for lubrication from carburetor to crankcase.
- 2. There are two nipples on rear cover.
- 3. Connect the nipples with fuel tubing separately. Can be connected in any order.

Break-in procedure:

This engine still uses a high precision sleeve liner, so a lengthy break in period is not necessary, however it is beneficial to follow the bench break in process below:

- 1. All NGH engines are tested before shipment, lubricated, and packed well.
- 2. For break in use 2 cycle oil at a ratio of 25:1, and general use with 35:1.
- 3. Break in RPM is 3000RPM.
- 4. Break in time is 30 minutes.
- 5. Break in is best performed without a using a muffler, however if noise is an issue
- 6. you can use the stock muffler.
- 7. After 10 minutes of break in de-mount the rear crankcase cover and lubricate the bearings.
- 8. Continue the break in and repeat step 7 after 30min.

Very important:

- 1. Must connect lubricating nipples, in any order, with fuel tubing between rear cover and intake manifold. Insufficient lubricating will damage the engine.
- 2. Must use 2 cycle oil for lubricating, do not use 4 cycle oil.
- 3. Valve gap is at 0.03 to 0.08mm.

Please contact your dealer or distributor with any questions.

Happy Flying!

NGH ENGINES COMPANY

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