

INSTALLATION MANUAL: HPI 210 1 cylinder 2 stroke universal ignition with integrated 60W light coil

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HPI wants to thank you for your confidence in its products. Please read this manual carefully to ensure years of enjoyment of this specialised high end electronic device. This manual shows you how to properly install the stator, flywheel, CDI and HT coil.

Stator Installation:

- Remove the original ignition from your engine.
- Depending on the engine's setup, a mounting plate is included in this set. This mounting plate serves as an adaptor between your engine and the 210 ignition. Fit the mounting plate on your engine.
- Locate the cable exit on your engine and position the stator according to this hole. If necessary, remove the plug (see backside) and lead the cable through the hole.
- Center the stator on the mounting plate (if present) or directly on your engine.
- Gently bolt the stator to your engine; do not tighten the bolts yet.

Flywheel installation:

The flywheel has to be placed on the crankshaft or otherwise on an axis which rotates at the same speed.

- Position the cylinder 2mm before its Top Dead Centre (TDC).
- Place the flywheel on the shaft, aligning the mark on the rotor with the mark on the stator. This position corresponds with the maximum ignition advance. (see backside image)
- The images on the right indicate which mark should be aligned according to the rotation direction.
- Double check that the flywheel does not touch the stator windings.
- Fasten the flywheel to the shaft.
- Check the position of the cylinder.
- If necessary adjust the alignment by turning the stator plate.
- Fasten the stator plate.

To gain performance, try to vary the cylinder position between 2 to 4mm before TDC.

Wiring instructions:

•	Light-coil	yellow	Connect the 60W light coil to your light circuit or regulator
•	HT-coil	orange black ring	Connect the HT-coil to the frame. Plug the orange cable to the HT-coil, Connect the black cable with ring to the bracket of the HT-coil and to the frame.
•	Stator	3-way plug	Plug the 3-way connector of the stator directly into the CDI. If you need to lead the cable through a narrow space, See back side to remove the connector from the cable loom.
•	Kill	black/white	Connect the black-white to frame / ground for an emergency sto
	Curve	yellow	connect the curve button to these wires. (optional)

Curveyellowconnect the curve button to these wires. (optional)switchyellow/greenswitch the button to select the desired advance curve.

To minimize electrical interference, try to keep all cables at a safe distance from the HT cable. Fasten all the cables to the frame and keep them clear from hot places and moving parts.

Please attend to the following remarks:

- the CDI-unit and cables must not be exposed to mechanical stress.
- the CDI-unit must not be exposed to excessive heat (not behind the radiator, close to the cylinder or the exhaust).
- the CDI-unit must not be exposed to electrical interferences (not close to the ht-coil).
- the CDI-unit must not be directly exposed to fluids (water, gasoline, oil,...).
- Do NOT extend cables, this may cause interference and damage to the CDI or the engine.

ATTENTION

When using the M6 holes of the flywheel, (fan, flywheel puller,...) Make Sure the bolts don't protrude inside the flywheel! Protruding bolts can damage the stator coils and void warranty.



Flywheel puller - 210V251

Curve switch - 210V064

For 2-curve CDI units, the curve select button

comes in handy. Easy mountable on your

Be careful not to damage the stator when removing the flywheel! To safely remove the flywheel, HPI can provide you with a puller. This is a widely applicable flywheel puller, M27 - 1 mm pitch - left thread.

Inertia disk - 210V257

If your engine requires a heavier flywheel, you can add an inertia disk to the 210 ignition. The inertia disk is a stainless steel disk of 95mm diameter, 280 grams, specially designed to centre-fit on the 210 flywheel.

Twin exit HT-coil - 210V007

engines.

The 210 ignition generates 2 sparks each

revolution. Using a HT-coil with double exit,

this ignition can be used on 2 cylinder (180°)

Fan blade - 210V256

Specially developed for the 210 ignition, to fit various Vespa engines. External diameter: 166mm.



Regulator Rectifier – 210V261

If you require a regulated voltage from the integrated 60W light coil, HPI can deliver a regulator - rectifier for all purposes:

- 12V D: battery,
- 12V AC: lights,
- 12V AC+DC



Igntion curves:

handle bar .





To reassemble the plug, insert the terminals back in place till the locking tab clicks in and put back the red cap.