	Information technique **Technical information** **Información técnica**	**Document nº** **NT 78-01**
Sujet: **Subject: 2014-2015 2 Stroke Enduro CARBURETOR SETTINGS** **Asunto:**		**Date/Fecha** **03/09/2014**

Motocyclette/Motorcycle/Motocicleta				
50 2T	**125 4T**	**250/300 4T**	**250/300 2T**	**450/510 4T**

Basic settings:

250 SE-R 2014 / 2015	
Type of carburetor	KEIHIN PWK 36S AG
Needle position	4th position from the top
Needle jet	N8RJ (N84K)
Main jet	KEA 165 (KEA 115)
Pilot jet	KEP 40 (KEA38)
Starter jet	85 (50)
Air screw adjustment	1 1/2 turns
Slide cut	N°7

300 SE-R 2014 / 2015	
Type of carburetor	KEIHIN PWK 36S AG
Needle position	3rd position from the top
Needle jet	N8RG (N84K)
Main jet	KEA 165 (KEA115)
Pilot jet	KEP 38 (KEA38)
Starter jet	85 (50)
Air screw adjustment	1 ½ turns
Slide cut	N°7

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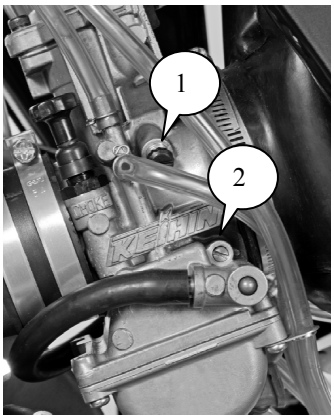
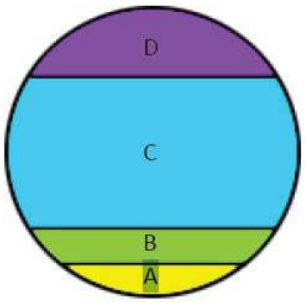
Carburetor adjustment procedure:

How the opening of the throttle slide influences performance:

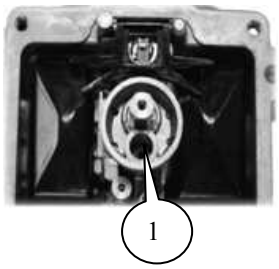


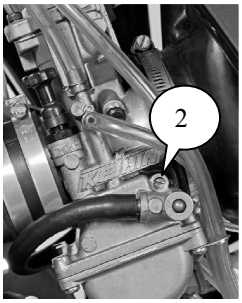


The composition of the mixture (Air-Gas) is a function of the opening of the slide:

- A: Idle range
  From 0 to ⅛ opening of the throttle slide, this range is regulated by the idle screw 1 and the air screw 2.
- B: Transition range
  From ⅛ to ¼ opening of the throttle slide, this range is regulated by the idle jet and the shape of the slide.
- C: Mid-range :
  From ¼ to ¾ opening of the throttle slide, this range is regulated by the needle valve (shape and position). In the lower range, the idle circuit, and in the higher range, the main jet take into account the control of the motor.
- D: Full load
  From ¾ to full throttle slide opening, this range is controlled by the main jet and the needle jet.

Pilot jet and pilot (air) screw:





In order to adjust the idle range A to B transition you can change the pilot jet 1(its size is stamped on it) and adjust the air screw 2, turning the screw in richens the mixture.
Proceed by turning the screw 1/8 of a turn at a time, if you move out of the rage of 1T-2.5T, change the size of the pilot jet.

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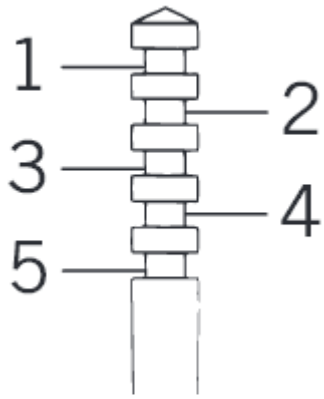
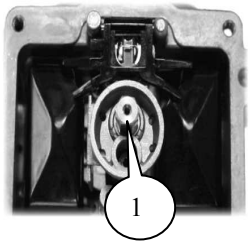
Needle



The needle has 5 notches for adjustment, 1 to 5, from rich to lean.
The reference number of the needle is engraved on it.
In the tables the adjusting position of the clip on the needle is defined from the upper position.

Main jet



The main jet is shown in the photo as “1".
The size of the jet is engraved on it.

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SE-R 250:

Sea Level	Temperature	-20°C ... -7°C	-6°C ... 5°C	6°C ... 15°C	16°C ... 24°C	25°C ... 36°C	37°C ... 49°C
3 000 m à 2 301 m	Air screw Pilot jet Needle Needle position Main jet	1 ½ T 40 N8RJ 4 165	1 ½ T 40 N8RJ 3 165	2T 40 N8RK 3 162	2T 40 N8RK 3 160	2 ½ T 40 N8RL 3 158	
2 300 m à 1 501 m	Air screw Pilot jet Needle Needle position Main jet	1T 40 N8RW 4 168	1 ½ T 40 N8RJ 4 165	1 ½ T 40 N8RJ 3 165	2T 40 N8RK 3 162	2T 40 N8RK 2 160	2 ½ T 40 N8RL 2 158
1 500 m à 751 m	Air screw Pilot jet Needle Needle position Main jet	1T 42 N8RH 4 170	1T 40 N8RW 4 168	1 ½ T 40 N8RJ 4 165	1 ½ T 40 N8RJ 3 165	2T 40 N8RK 3 162	2T 40 N8RK 2 160
750 m à 301 m	Air screw Pilot jet Needle Needle position Main jet	1/2T 45 N8RH 5 172	1T 42 N8RH 4 170	1T 40 N8RW 4 168	**1 ½ T** **40** **N8RJ** **4** **165**	1 ½ T 40 N8RJ 3 165	2T 40 N8RK 3 162
300 m à 0 m	Air screw Pilot jet Needle Needle position Main jet	1/2T 45 N8RG 5 175	1/2T 45 N8RH 5 172	1T 42 N8RH 4 170	1T 40 N8RW 4 168	1 ½ T 40 N8RJ 4 165	1 ½ T 40 N8RJ 3 165

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Carburetor setting table for the SE-R 300 :

Sea Level	Temperature	-20°C ... -7°C	-6°C ... 5°C	6°C ... 15°C	16°C ... 24°C	25°C ... 36°C	37°C ... 49°C
3 000 m à 2 301 m	Air screw Pilot jet Needle Needle position Main jet	1 ½ T 38 N8RG 3 165	1 ½ T 38 N8RG 2 165	2T 38 N8RH 2 162	2 ½ T 38 N8RH 2 160	3T 38 N8RH 2 158	
2 300 m à 1 501 m	Air Screw Pilot jet Needle Needle position Main jet	1T 38 N8RF 3 168	1 ½ T 38 N8RG 3 165	1 ½ T 38 N8RG 2 165	2T 38 N8RH 2 162	2 ½ T 38 N8RH 2 160	3T 38 N8RH 2 158
1 500 m à 751 m	Air screw Pilot jet Needle Needle position Main jet	1T 38 N8RF 3 170	1T 38 N8RF 3 168	1 ½ T 38 N8RG 3 165	1 ½ T 38 N8RG 2 165	2T 38 N8RH 2 162	2 ½ T 38 N8RH 2 160
750 m à 301 m	Air screw Pilot jet Needle Needle position Main jet	1T 40 N8RF 4 172	1T 38 N8RF 3 170	1T 38 N8RF 3 168	**1 ½ T** **38** **N8RG** **3** **165**	1 ½ T 38 N8RG 2 165	2T 38 N8RH 2 162
300 m à 0 m	Air screw Pilot jet Needle Needle position Main jet	1T 40 N8RF 4 175	1T 40 N8RF 4 172	1T 38 N8RF 3 170	1T 38 N8RF 3 168	1 ½ T 38 N8RG 3 165	1 ½ T 38 N8RG 2 165