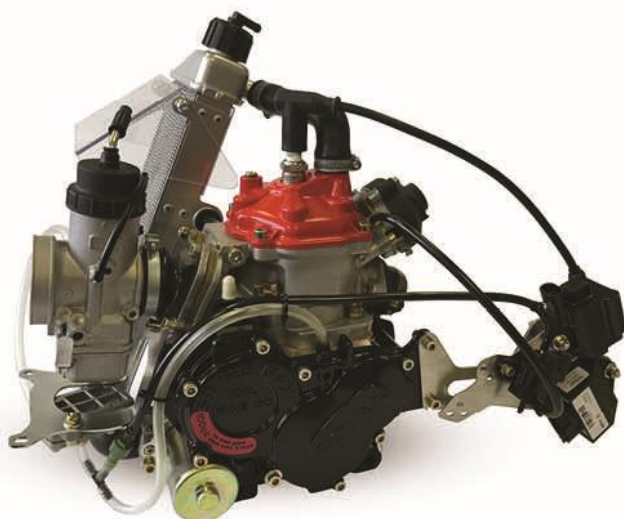


Retrofit instructions

Bracket kit 481257



für ROTAX®-Motoren Type / *for ROTAX®-engines type*

125 MAX evo

125 JUNIOR MAX evo

125 MINI MAX evo

125 MICRO MAX evo

Produktion / *Production*: 2015

Ausführung / *Configuration*: . 125 MAX / 35.0125.140

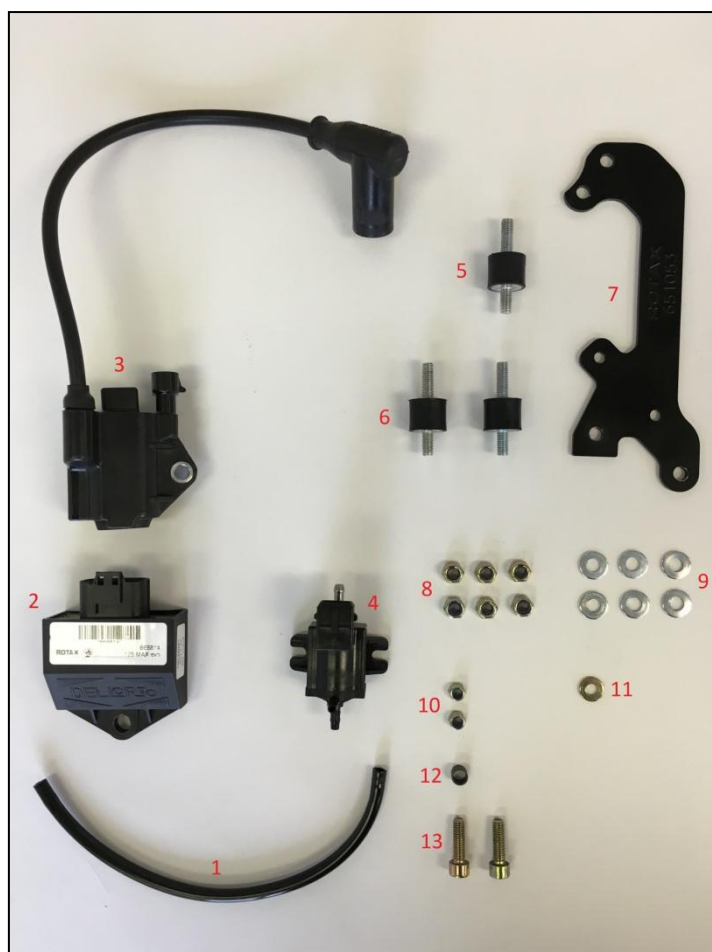
125 Junior MAX / 35.0125.130

125 Micro MAX / 35.0125.137

Nr. / *No.*: 01

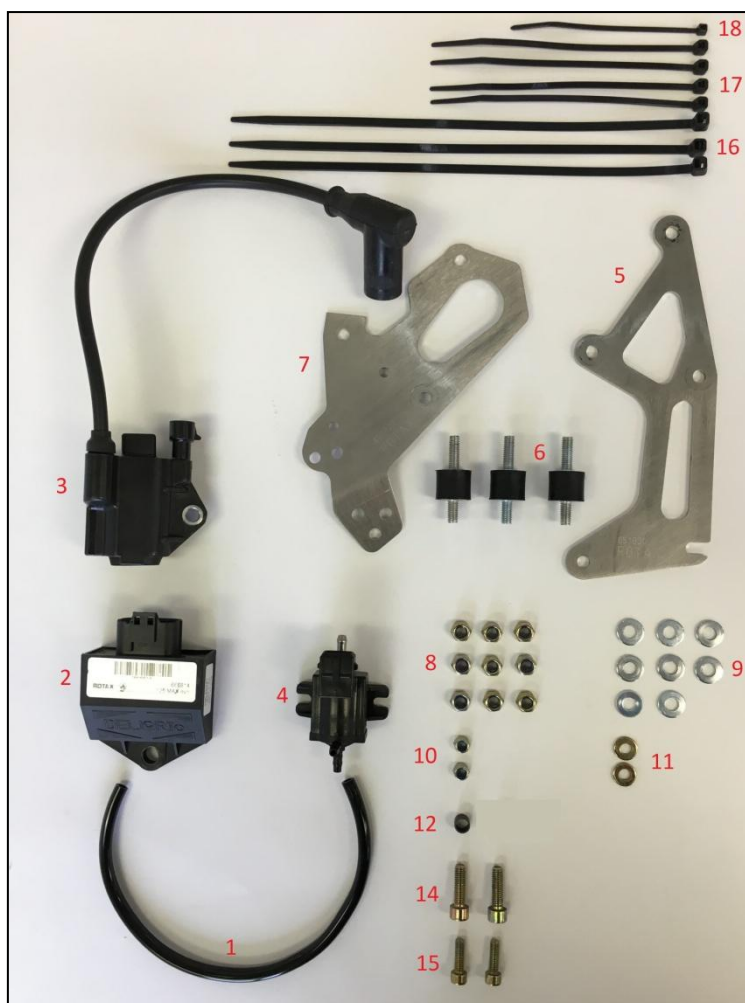
Ausgabe / *Edition*: 10/2015

Current parts on a ROTAX 125 MAX evo

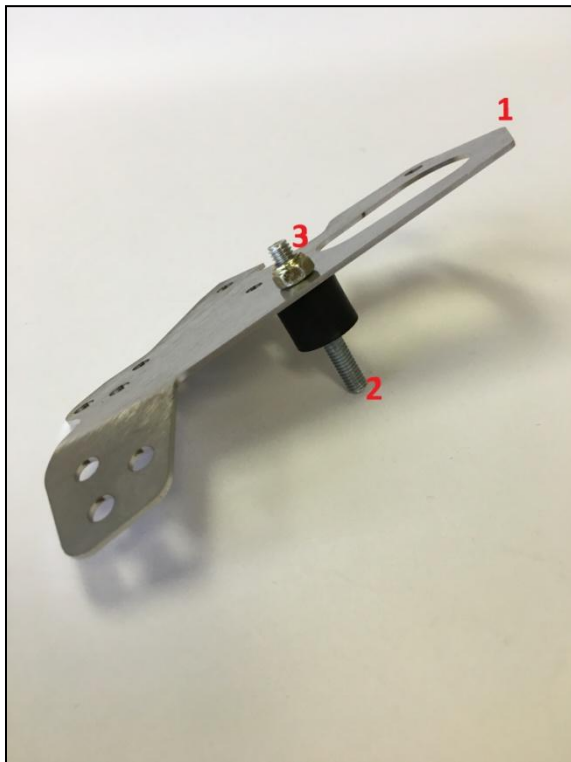


No.	Part. No.	Name	Qty.	USAGE for rework?
1	660 575	Pressure Line 220 mm	1	NO
2	666 814	Electronic Box MAX	1	YES
3	660 825	Ignition Coil	1	YES
4	664 630	Solenoid Valve	1	YES
5	660 775	Rubber buffer 10x16xM5	1	NO
6	660 520	Rubber buffer 18x15xM6	2	YES
7	651 053	Retaining Plate	1	NO
8	842 040	Lock nut M6	6	YES
9	244 211	Washer 6,4	6	YES
10	842 030	Lock nut M5	2	YES
11	927 571	Washer 5,3	1	NO
12	847 540	Distance sleeve	1	YES
13	241 930	Allen screw M6x20	2	YES

Bracket kit 481 257 (+ parts from a current ROTAX 125 MAX evo)



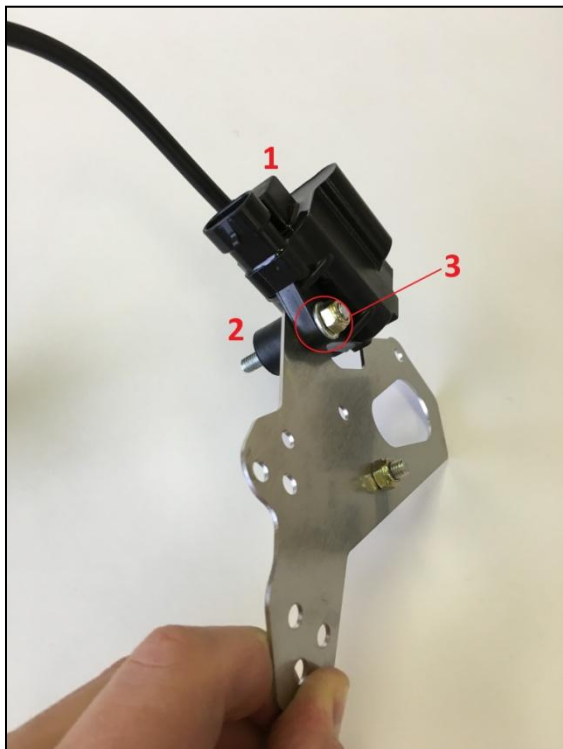
No.	Part. No.	Name	Qty.	NEW for rework?
1	660 574	Pressure Line 280 mm	1	YES (new part)
2	666 814	Electronic Box MAX	1	NO
3	660 825	Ignition Coil	1	NO
4	664 630	Solenoid Valve	1	NO
5	651 930	Retaining plate MAX	1	YES (new part)
6	660 520	Rubber buffer 18x15xM6	3	YES (quantity)
7	651 920	Mounting plate	1	YES (new part)
8	842 040	Lock nut M6	9	YES (quantity)
9	244 211	Washer 6,4	8	YES (quantity)
10	842 030	Lock nut M5	2	NO
11	827 800	Washer 5,5	2	YES (new part)
12	847 540	Distance sleeve	1	NO
14	241 930	Allen screw M6x20	2	NO
15	840 511	Allen screw M5x16	2	YES (new part)
16	651 397	Tie warp large	3	YES (new part)
17	866 714	Tie warp medium	4	YES (new part)
18	866 718	Tie wrap small	1	YES (new part)



STEP 1

Take one rubber buffer M6 (2) and fix it on mounting plate (1).

Please note: Lock nut M6 (3) has to be fixed on the shorter threat of the rubber buffer



STEP 2

Take ignition coil (1) and fix it with rubber buffer M6 (2), lock nut M6 and washer (3) on mounting plate.

Please note: Lock nut M6 (3) has to be fixed on the longer threat of the rubber buffer

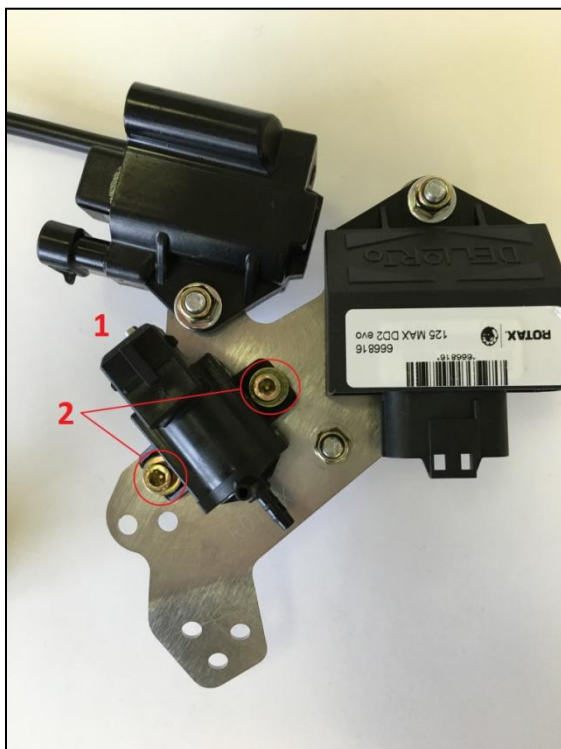


STEP 3

Take ECU (1) and fix it on the mounting plate by using a rubber buffer M6, distance sleeve, washer and lock nut M6 (2).

Please note: Lock nut M6 (2) has to be fixed on the longer thread of the rubber buffer.

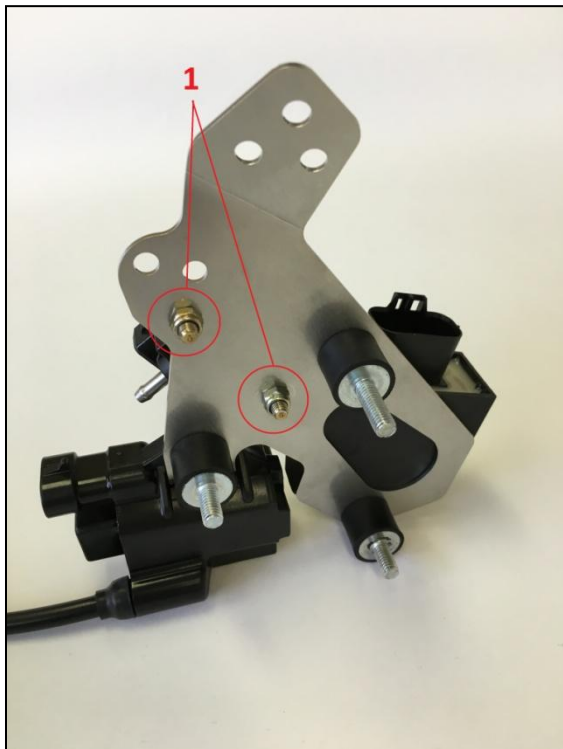
Please note: ECU and mounting plate has the same shape in this area (3)



STEP 4

Take solenoid valve (1) and fix it on the mounting plate by using two allen screws M5 and two washers (2).

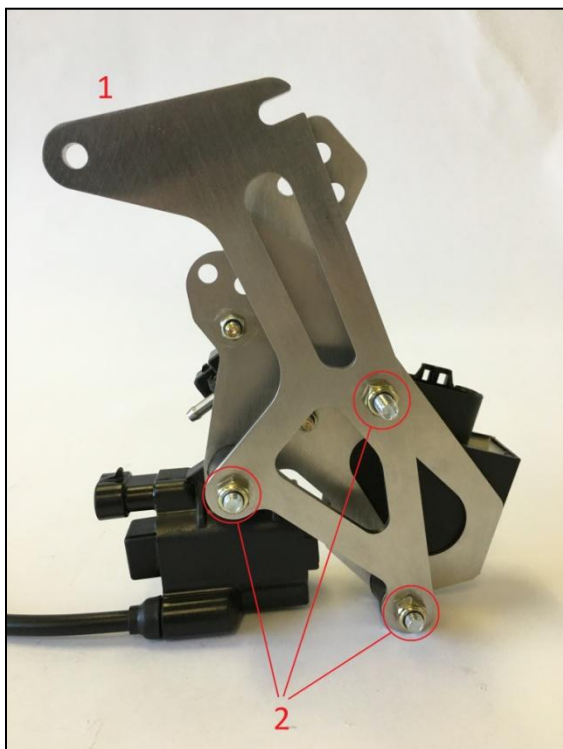
Please note: For models without solenoid valve use these holes (2) to fix dummy plug (666900) on this position.



STEP 5

On the rear side of the mounting plate lock nuts M5 **(1)** are used to fix the solenoid valve.

Please note: Washers are not necessary to use

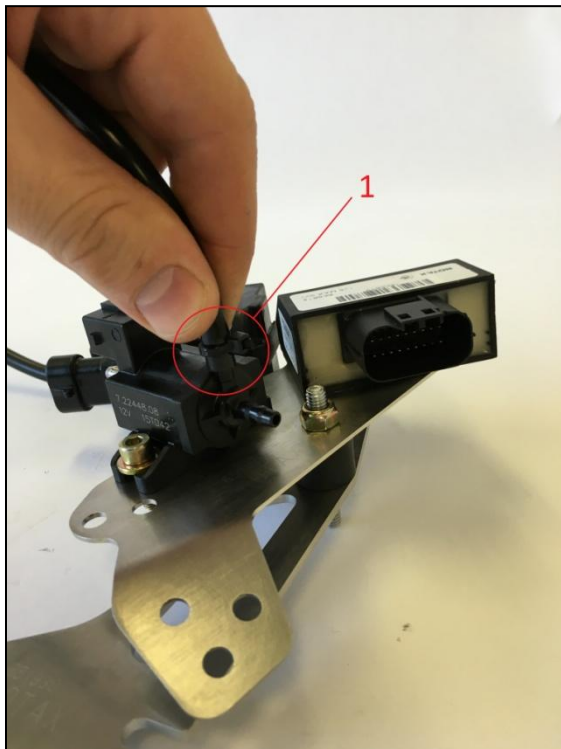


STEP 6

Take retaining plate MAX **(1)** and put it in the correct position like on the picture shown. Use lock nut M6 **(2)** to fix the plate on the rubber buffer.

Please note: One threat has to be longer as the other two threats! This is necessary to fix the ground wire (see STEP 13)

Please note: Washers are not necessary to use



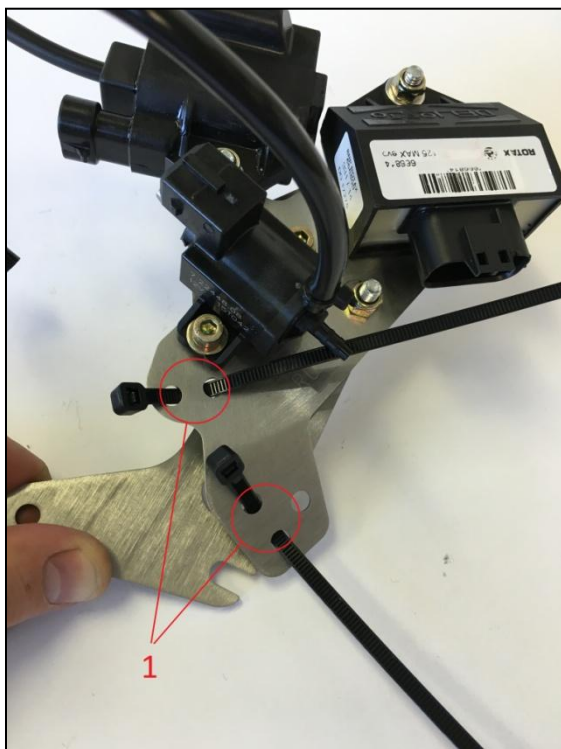
STEP 7

Put pressure line 280mm **(1)** and fix it on the solenoid valve.

Please note: Use one tie wrap to secure the hose.

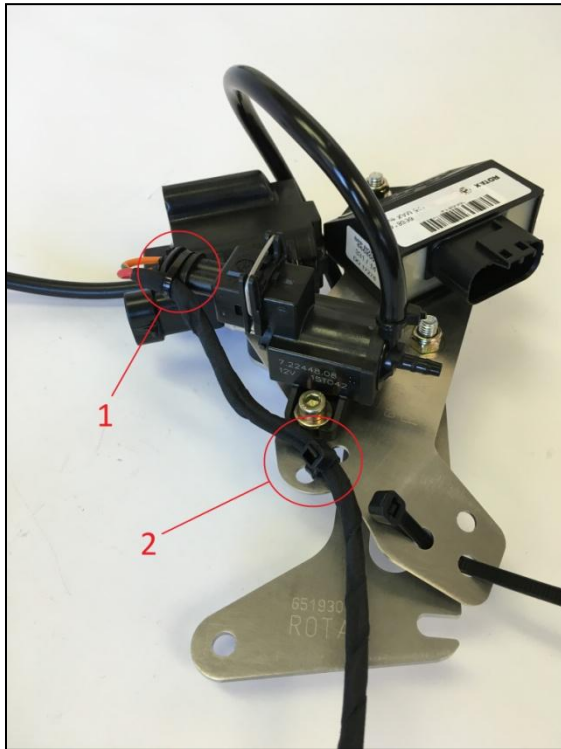
INFO: Hose length has been changed

NEW	660 574	pressure line 280 mm
OLD	660 575	pressure line 220 mm



STEP 8

Bring both tie wraps large in the correct position like on the picture shown **(1)**.

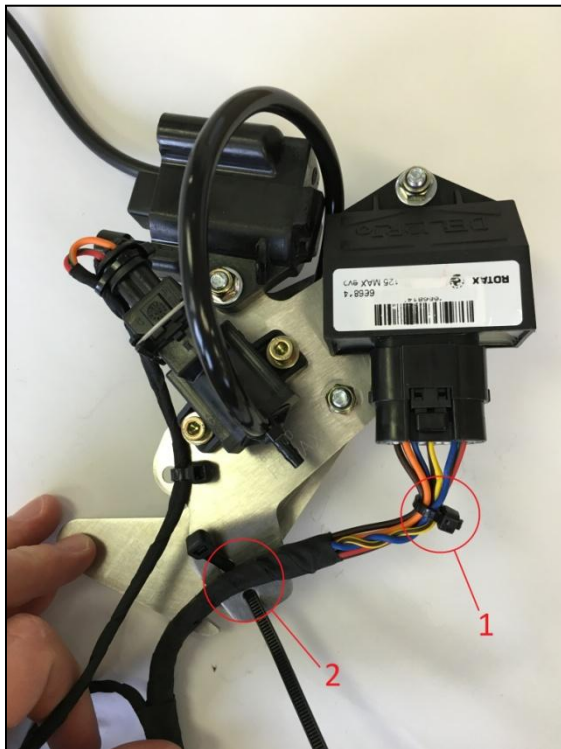


STEP 9

Connect electric plug to the solenoid valve.

Please note: Tie wrap **(1)** on the plug is already fixed on each wiring harness (666 831). If the wire is on the other side of the plug, please twist the wire carefully to the position like on the picture shown.

Fix tie wrap **(2)**. The cable of the solenoid valve needs to be fixed with that tie wrap only.



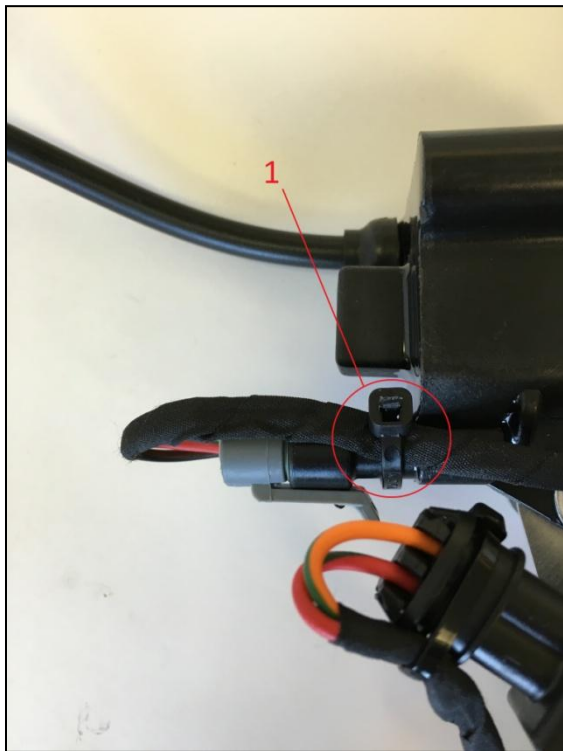
STEP 10

Connect electric plug to ECU.

Fix one tie wrap medium **(1)** in position like on the picture shown (approx. 20 mm distance of the plug)

INFO: This step is necessary to avoid vibration on each cable strand.

Bring wiring harness in position **(2)**

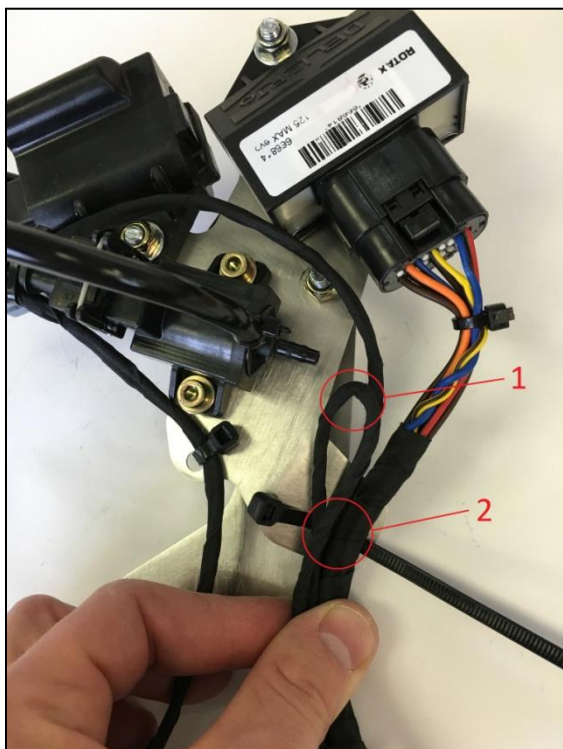


STEP 11

Connect electric plug to ignition coil.

Use on tie wrap medium **(1)** to fix the wire to the ignition coil.

INFO: This step is necessary to avoid vibration on each cable strand.



STEP 12

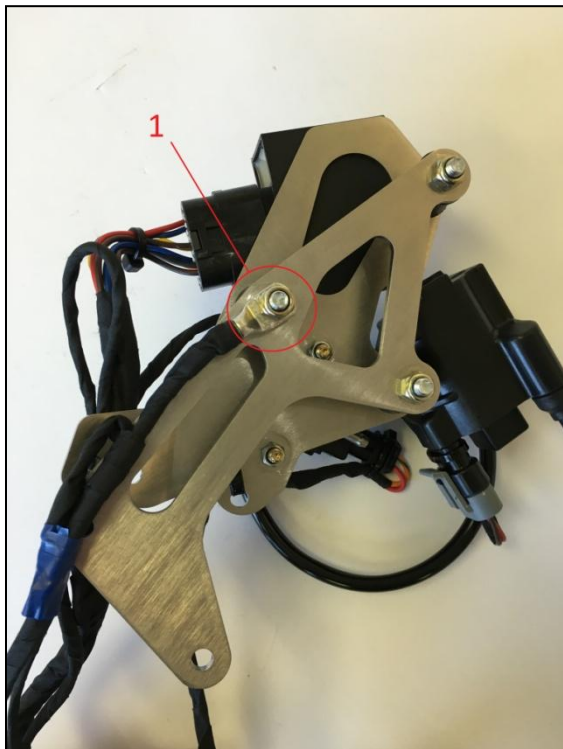
Take shift contact wire and make a loop **(1)**

Fix tie wrap **(2)**

Tie wrap **(2)** is responsible to keep ...

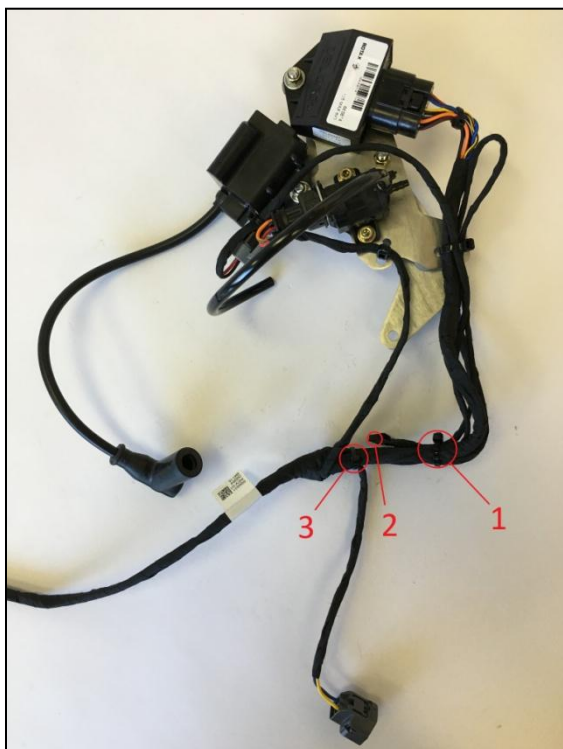
- a) ECU cable
- b) Ignition coil cable
- c) Loop of shift contact cable

... in the correct position of the mounting plate



STEP 13

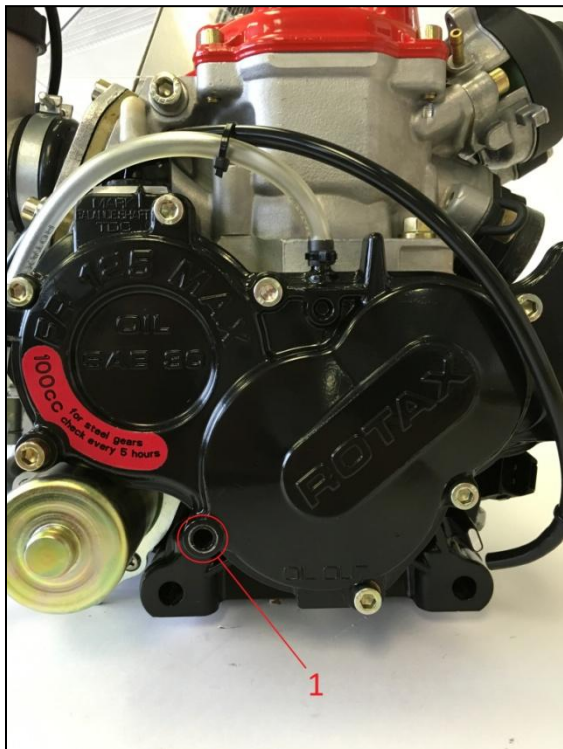
Take minus wire (which used to be mounted on the cylinder head cover in the past) and fix it on the retaining plate by using a lock not M6 **(1)**



STEP 14

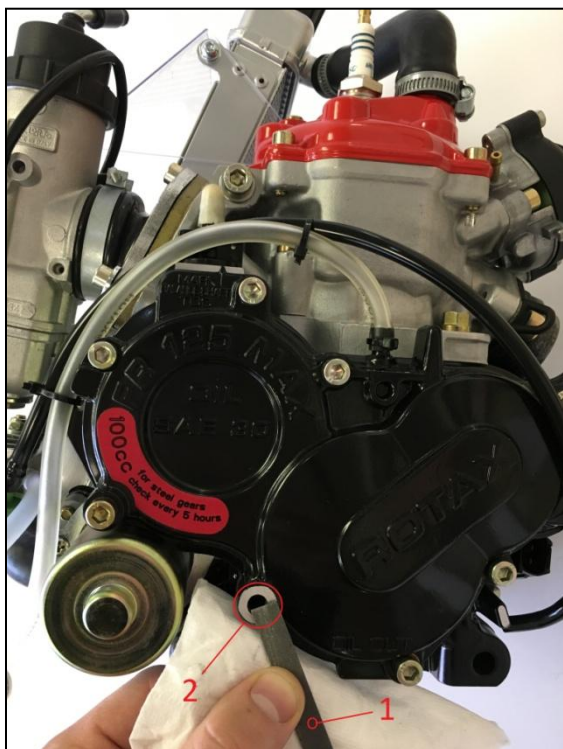
Take one tie wrap medium and fix it on the elbow of the wiring harness like on the pictures shown **(1)**. Make sure cable of shift contact **(2)** is fixed with that tie wrap.

Take another tie wrap medium and fix the wire of the pick up sensor to the main harness **(3)** next to the joint connection.



STEP 15

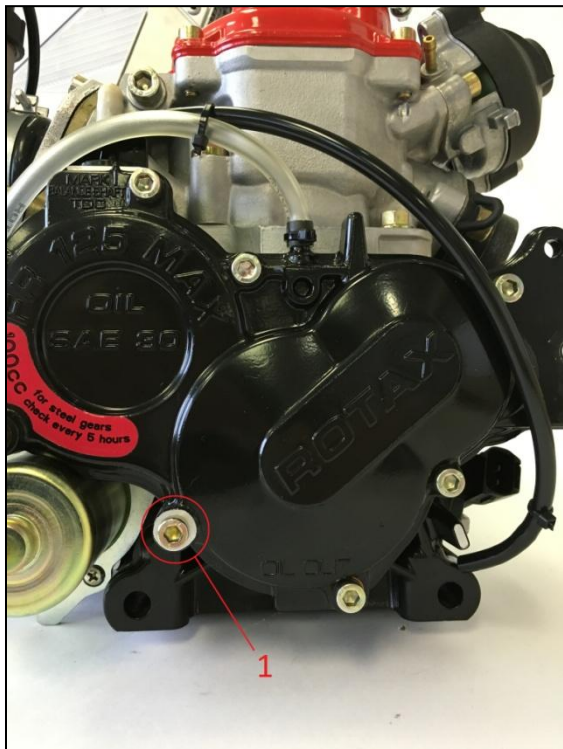
Remove bolt M6x20 **(1)** of the gear cover



STEP 16

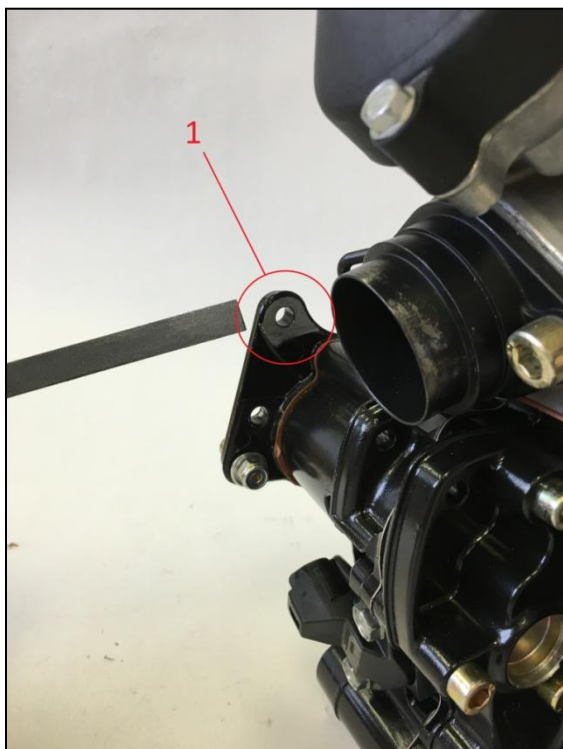
Remove the black coating in the area around the hole **(2)** by using a file **(1)**

Please note: This step is required to ground/earth the engine



STEP 17

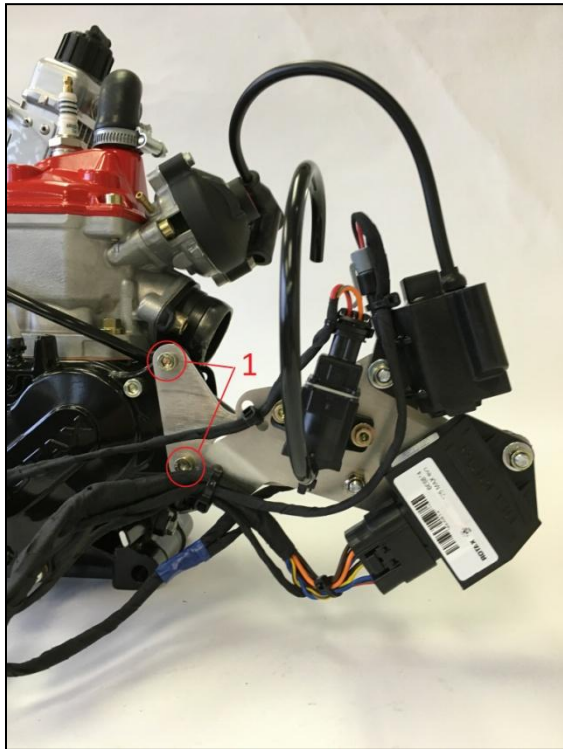
Tight screw M6x20 **(1)** by using a tightening torque of 10 Nm



STEP 18

Remove the black coating on the back side of the gear cover **(1)** by using a file

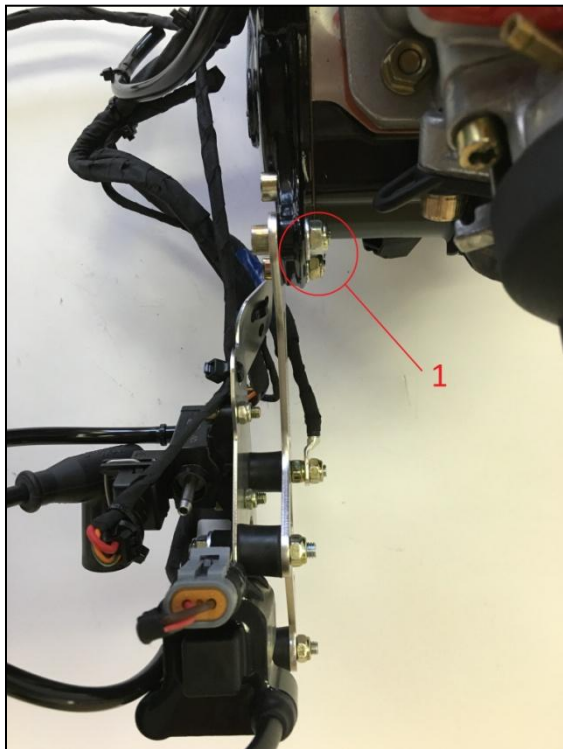
Please note: This step is required to ground/earth the engine



STEP 19

Take the whole bracket kit and put it on the engine. Use allen screw M6x20 (from previous retaining plate) and fix it on the gear cover **(1)**

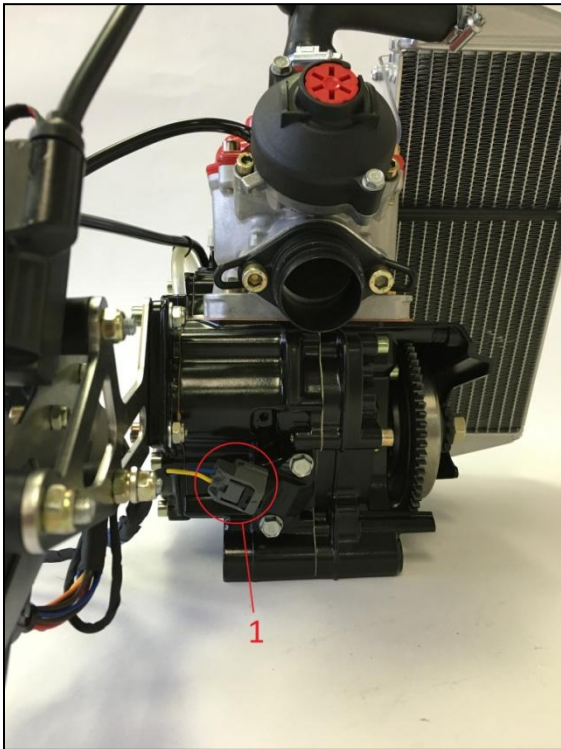
INFO: If you want to remove the engine, you just need to lay the bracket kit aside. It is not necessary to disassemble the whole construction.



STEP 20

Make sure electrical connection between gear cover and washer is given **(1)**

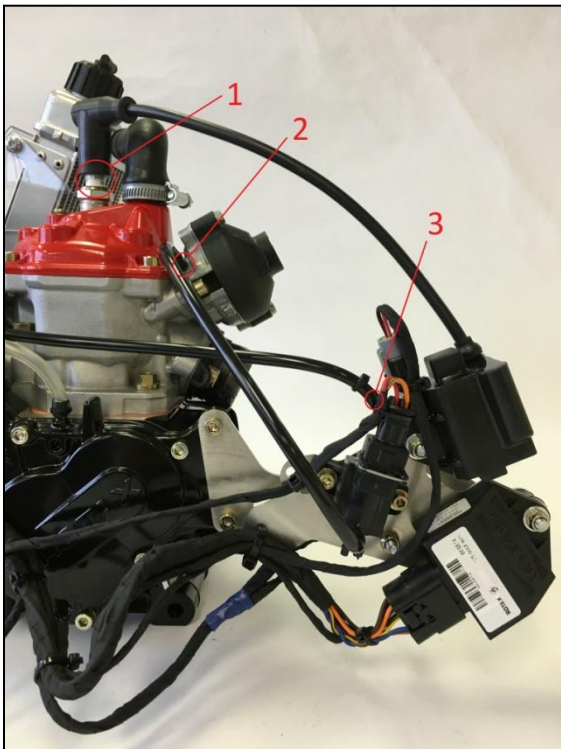
INFO: Usage of washers on this connection is nonobligatory. Just make sure, nylon part of the nut secures this connection.



STEP 21

Connect pick up connector to pick up sensor **(1)**

Connect starter connector to starter motor (no picture)

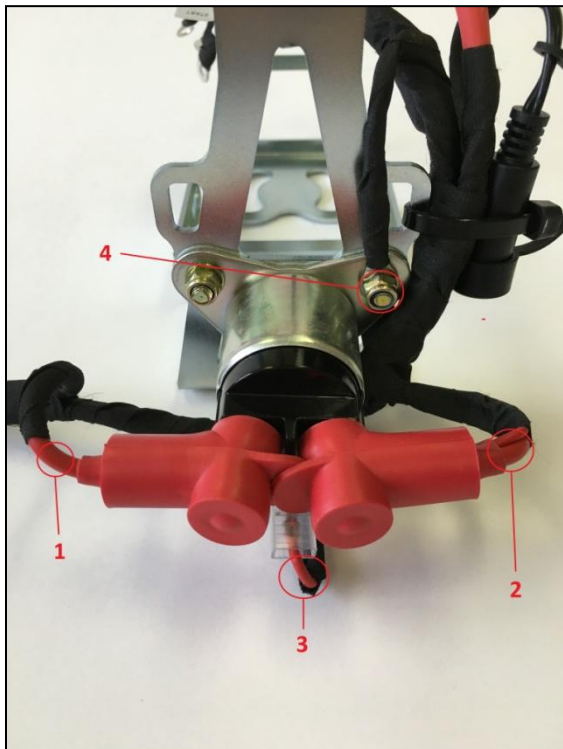


STEP 22

Connect spark plug connector to spark plug **(1)**

Connect pressure line 280 mm to exhaust valve **(2)**

Connect black pressure line (which comes from the t-fitting near fuel pump) to the metal connector of the solenoid valve **(3)**



STEP 23

Connect **RED SINGLE** wire on the left hand side of the relay **(1)**

Connect **RED DOUBLE** wire on the right hand side of the relay **(2)**

Connect **RED SINGLE** wire on the center of the relay **(3)**

Please note: isolator on the center wire is transparent!

Connect ground wire on the right hand side of the relay housing **(4)**



STEP 24

Take one tie wrap large and fix the harness on the battery frame **(1)**

Please note: Make sure battery charging plug is fixed with that tie wrap also **(2)**



STEP 25

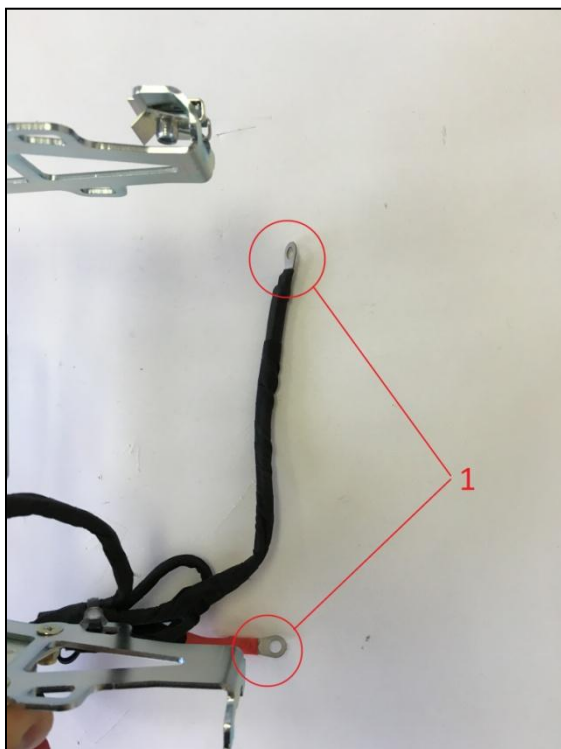
Connect center connector to “CENTER” on the multifunction switch

Connect ignition connector to “IGNITION” on the multifunction switch

Connect start connector to “START” on the multifunction switch

Please note: Labels on the wires should help you to see the correct wire

Please note: If the multifunction switch isn’t mounted on the battery cover, it is much easier to connect the wires



STEP 26

Connect **(+) pole** and **(-) pole** to the battery

Please note:

(+) pole wire is now red colored

(-) pole wire is now black colored **(1)**



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