WORKSHOP MANUAL | MANUEL D'ATELIER | MANUAL DE TALLER



SHERCO

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This manual is designed primarily for skilled mechanics working in a properly equipped workshop. The execution of the operations in this manual requires a strong mechanical knowledge and specific SHERCO tools designed for the 250 SE and 300 SE engine.

This workshop manual is a supplement to the SHERCO 250 SE and 300 SE owner's manual.

TOOLS LIST 250-300 SE

TOOLS 250/300 2T

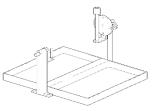
Owner Manual 8699

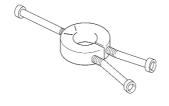
Clutch Tool 5749

Engine support / Container R481/R455

Ring Extractor R464





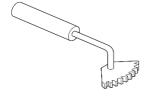


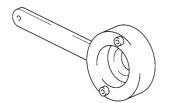
Pinion clutch shaft tool 5593

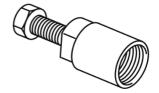
Ignition Tool 4753

Flying extractor R462

Tool kit 0726









Diagnostic Tool 8561



SUSPENSION

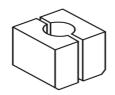
FACTORY

Top cap wrench 7666

Oil seal insert 7668







Inner tube clamp

7670







RACING

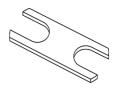
Seal hammer 7669

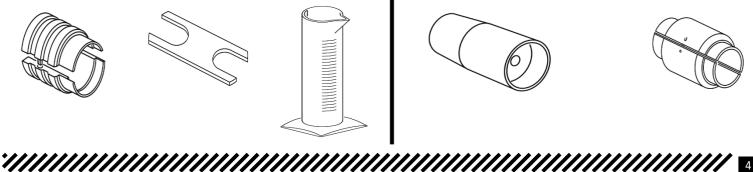
Piston rod holder 7667

Oil measuring cup 7671

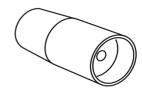
Seal Hammer 5028

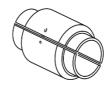






Oil seal insert 5029





TECHNICAL SPECIFICATION

ENGINE

	250	300
Туре	Mono-cylinder 2 temps liquid	
Displacement	249,32 CC	293,14 CC
Bore / Stroke	66,4 / 72 mm	72 / 72 mm
Compression ratio	11.5 / 1	11.9 / 1
Fuel	Without lead 95 or 98 mixe	ed with 2 stroke oil (2%)
Cooling	Liquid fo	rced
Ignition system	Electronic ignition	on Synerject
Spark plug	NGK BF	R7ES
Spark plug electrode distance	0.7 mm	
Piston	Aluminium graphite treated	
Gear box oil	750 ml SAE 5W40	
Primary reduction ratio	27 : 75	
Gearbox :	6 Speeds	
1 st	14 : 32	
2 nd	15 : 26	
3 rd	18 : 25	
4 th	22 : 24	
5 th	24 : 22	
6 th	25 : 20	
Final transmission	13 X 50	13 X 48
Clutch	Multi-disk in oil, Hydraulic command	
Start-up	Electric starter	
Battery	12V 4Ah/ lithium LTZ5S 12V 2Ah	
Alternator	220W	

CARBURETTOR

	250	300
Carburettor type	KEIHIN PWK 36S AG	KEIHIN PWK 36S AG
Needle position	3 rd position from the top	3 rd position from the top
Needle jet	N1EG (N84K)	N8RE (N84K)
Main jet	KEA 162 (KEA 115)	KEA 165 (KEA 115)
Pilot jet	KEP 40 (KEA38)	KEP 40 (KEA 38)
Starter jet	85 (50)	85 (50)
Air screw adjustment	1T 1/4	1T 1/2
Slide shape	N°7	N°7

TECHNICAL SPECIFICATION

BIKE SPECIFICATION

Frame	Semi-perimétric CrMo steel with aluminium sub frame
Fork	KAYABA USD Ø48mm Closed cartridge (FACTORY) WP XPLOR USD Ø48mm (RACING)
Rear shock	KAYABA rear shock with separate cylinder (FACTORY) WP rear shock with separate cylinder (RACING) Aluminium swing arm
Travel front / rear	FACTORY 330/330mm RACING 300/330mm
Front brake	Rotor Ø 260mm
Rear brake	Rotor Ø 220mm
Brake disc	Limit : Front 2.7mm et Rear 3.6mm
Front tyre	90/90-21"
Rear tyre	140/80-18"
Off road tyre pressure F / R	0.9 bar
Fuel tank capacity	10.4Ll with1 liter de reserve
Angle of the steering column	27.3°
Wheel bas	1480 mm

STANDARD ADJUSTMENT

FORK

Setting Factory – Fork KAYABA USD Ø48 mm

Compression	Comfort	20 clicks back
	Standard	13 clicks back
	Sport	8 clicks back
Rebound	Comfort	18 clicks back
	Standard	13 clicks back
	Sport	10 clicks back
Spring stiffness	Rider weight : 65-75 kg	4.0N/mm (Original)
	Rider weight : 75-85 kg	4.2N/m
	Rider weight : 85-95 kg	4.4N/m
Fork oil	01M	345 CC

Setting Racing – Fork WP XPLOR USD Ø48mm

Compression	Comfort	18 clicks back
	Standard	15 clicks back
	Sport	12 clicks back
Rebound	Comfort	18 clicks back
	Standard	15 clicks back
	Sport	12 clicks back
Preload	Comfort	+0 tours
	Standard	+0 tours
	Sport	+6 tours
Spring stiffness	Rider weight : 65 - 75 kg	4.2N/mm
	Rider weight :75 - 85 kg	4.4N/mm (Original)
	Rider weight: 85 - 95 kg	4.6N/mm
Oil type		SAE 4
Spring length with prelo	oad spa	474 mm
Quantity of oil		606ml
Oil level measurement (fork compressed and spring removed) from the top of the fork tube		100mm (min30-max 120 mm)

STANDARD ADJUSTMENT

SHOCK ABSORBER

Setting Factory – Shock absorber KAYABA

Low-speed compression	Comfort	20 clicks back
	Standard	14 clicks back
	Sport	12 clicks back
High-speed compression	Comfort	2,5 turns back
	Standard	1.5 turns back
	Sport	1 turn back
Rebound	Comfort	15 clicks back
	Standard	13 clicks back
	Sport	11 clicks back
Spring stiffness	Rider weight: 65 - 75 kg	46N/mm
	Rider weight :75 - 85 kg	48N/mm (original)
	Rider weight: 85 - 95 kg	50N/mm
Oil type		K2C

Setting Racing- Shock absorber WP

Low-speed compression	Comfort	17 clicks back
	Standard	12 clicks back
	Sport	9 clicks back
High-speed compression	Comfort	2 turns back
	Standard	1.5 turns back
	Sport	1 turns back
Rebound	Comfort	16 clicks back
	Standard	14 clicks back
	Sport	12 clicks back
Spring stiffness	Rider weight : 65 - 75 kg	51N/mm
	Rider weight :75 - 85 kg	54N/mm (original)
	Rider weight: 85 - 95 kg	57N/mm

OPERATIONS REQUIRING DEMOUNTING OR NOT ENGINE

	REMOVING THE ENGINE	NOT DEMOUNTING ENGINE
Crankshaft (including connecting rod kit)	•	
Gear box	•	
Crankshaft bearing	•	
Gear box bearing	•	
Piston		•
Cylinder		•
Cylinder head		•
Ignition		•
Pinion of ignition system		•
Clutch		•
Water pump / balancer shaft		•
Gear selection		•

REMOVING / REINSTALLING THE ENGINE

REMOVING THE ENGINE

WARNING

To remove the engine, you must remove the swing arm axle, the swing arm and the rear wheel. To keep the bike from falling, remember to support the chassis with an appropriate jack.

- Drain (Cf. Owner's manual)
 - Engine oil.
 - Coolant.
- Remove the seat.
- Disconnect the battery.
- Remove the fuel tank and radiator side panels.
- Disconnect all the electrical wiring connectors from the engine (Starter, Spark plug cap, actuator).
- Remove the exhaust.
- Remove the coil.
- Remove the carburettor.
- Remove the chain.
- Remove the chain guard.
- Remove the clutch-actuating cylinder.

WARNING

When the clutch receiver has be removed, the piston is loose. Hold the piston it in place using a plastic strap.

- Remove the water hoses connected to the engine.
- Remove the left side radiator.
- Loosen all the engine bolts.
- Loosen the swing arm axel.
- Remove the engine support and the electric motor.
- Remove the engine axel.
- Remove the swing arm axel.
- Remove the engine from the frame.

REINSTALLING THE ENGINE

The motor should be install in the frame in the reverse order of how it has be removed. The following torque values should has be used.

Tightening torques:

Engine bolts: 60Nm

Swing arm axle nut: 100 Nm Clutch receiver screws: 10 Nm Cylinder head bracket bolts 23Nm Exhaust mounting bolts: 10Nm

) Draining the gearbox

• Remove drain plugs **1** & **2**, and allow the oil to drain



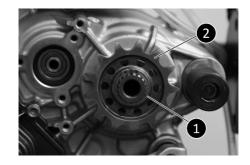


) Removing the pinion and gear selector lever

- Remove circlips **1** using external pliers.
- Remove the gearbox sprocket 2.







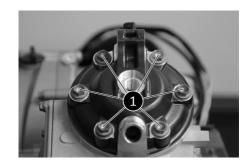




) Dismantling the engine top end :

) Removing the cylinder head, cylinder and piston

• Remove the shoulder screws 1 and the cooper washers.



 Remove the cylinder head and the two toric seals.



 Remove the 3 valve actuator cover screws taking care to not lose the metal spacers 1.



Remove the exhaust valve actuator 2.

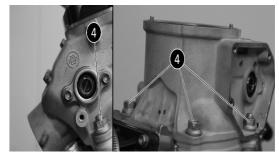


Remove the exhaust chamber cover



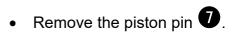


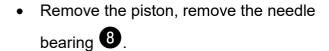
Remove the 4 shoulder nuts 4 at the base of the cylinder.



- Remove the cylinder and place tool 5774 **5** under the piston to hold it in place.
- Cover the housing.

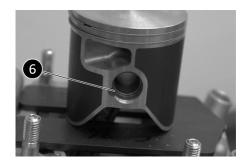




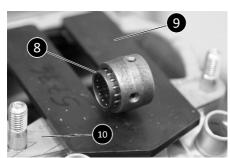


- Remove the tool 5774 **9**.
- Remove the base gasket 10.





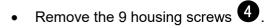


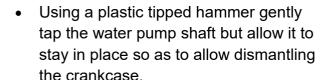


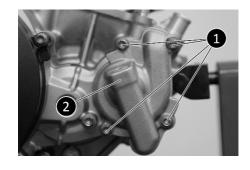
) Disassembly of the right side:

I Removal of the clutch cover.

- Remove the 4 screws 1.
- Remove the water pump housing 2 and it's O-ring.
- Remove the water pump impeller 3 by turning it counter clockwise.







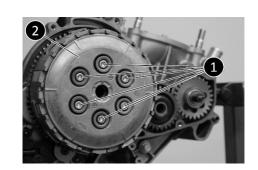






) Removal of the clutch unit.

 Remove the 6 screws and their springs for the clutch pressure plate 1,
 remove the clutch pressure plate 2.



• Remove the clutch release bearing 3.



Remove the friction discs pack and
 smooth disc from the clutch basket 4.



- Remove the nut and conical washer.



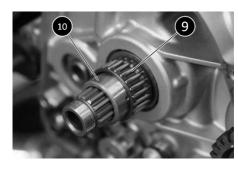
- Using tool 5749 6 to hold the boss clutch and the clutch basket in place.
 Loosen the nut using a 30 mm socket.
- Remove the nut and its conical washer; remove tool 5749 and the boss clutch.



- Remove the support washer from the boss clutch 7.
- Remove the clutch basket 8.



• Remove the needle bearing **9** as well as the spacer **10**.



• Using a magnet remove the washer from the bearing support.



• Remove the pinion and its key from the crankshaft.

The primary transmission pinion and clutch gear ring gear are matched, so they cannot be changed separately. Always replace them as a matched set.



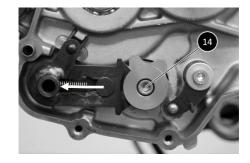
Remove the water pump / balancer shaft



 Using a pair of plier remove the crankshaft tail spacer



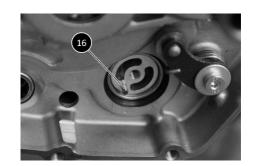
- Push the pawl of the selector mechanism towards the axel in order to be able to remove the selector.
- Remove the BTR screw 49 from the star selector.



 Using a nose pliers depress the locking finger of the selector. Remove the selector star



• Remove the pin 6 from the selector cylinder.

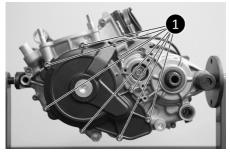


• Remove the BTR screw **17**, remove the washer the locking tab and the spring.

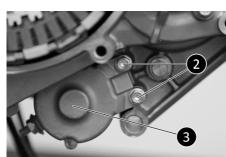


) Disassembly of the left side :

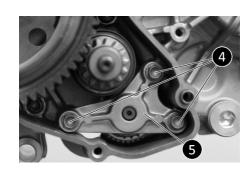
- I Removing the starter assembly.
- Remove the 8 screws from the ignition cover 1.



• Remove the 2 screws from the starter 2 and remove the starter 3.



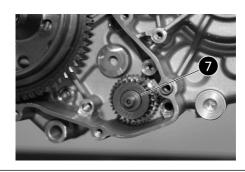
• Remove the 3 screws 4 from the torque limiter mount 5.



Remove the starter motor 6.
 Be careful to not lose the washer, which is located behind the launcher.



• Remove the torque limiter **1**.



Ignition removal.

Hold the ignition flywheel with tool 4753
 remove the locknut from the crankshaft.



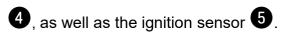
• Place tool 5208 **2** on the thread of the crank and remove the ignition flywheel.

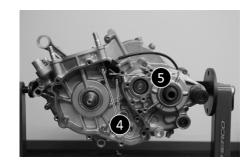


• Remove the ignition key 3.



• Remove the two ignition sensor screws

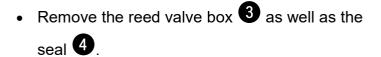


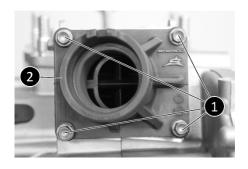


) Disassembly of the crankcases:

Inlet pipe and reed valve box.

- Remove the 4 retaining screws from the inlet pipe 1.
- Remove the inlet pipe **2**.

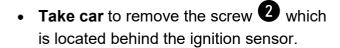


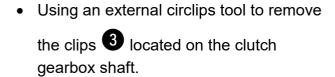


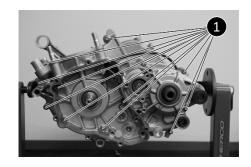


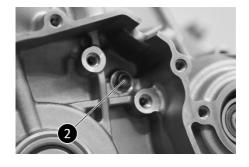
> Separation of the half housing.

- Tilt the engine to have the ignition side facing you.
- Remove the 12 screws ①.









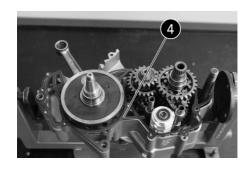


 Remove the left crankcase half by lifting it up and lightly tapping the gearbox output shaft with a plastic hammer in order to separate the two halves.

WARNING

Avoid as much as possible introducing a screwdriver or any other tool between the two-crankcase halves to separate them. You will risk damaging the mating plane.

Remove the half housing and the central seal

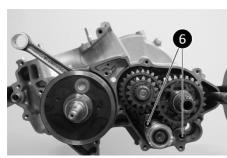


I Removal of the gear selection.

Remove the gearbox lubrication tube
5



• Remove the two fork pins **6**.



 Push the forks to the side to release them from the drum 7.



• Take care to not lose the rollers **8** on the shifter fork lugs.



• Remove the shift forks **9** from the gearbox.



 Simultaneously bring out of their bearing the drive shaft and the shaft secondary.



I Removal of the crankshaft.

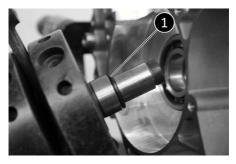
 Remove the crankshaft assembly from its bearing (you may have to use plastic hammer end lightly tap the end of the crankshaft).



• Remove the O-ring **1**.



When the engine is completely dismantled, it is best to replace all gaskets, oil seal, O-rings and all the bearings.



• Clean all the parts and check everything for wear, replace as required.



REPLACING ENGINE COMPONENTS

I Replacement of the crankshaft bearings.

- Remove the crankshaft oil seal on the left end of the crankshaft.
- Place a kinetic puller of 35 capacity on the roller bearing, heat the crankcase around the bearing and remove the bearing.
- When replacing the bearing it is necessary to replace the inner ring which is located next to the balancing mass.
- Heat tool R464 2 to approximately 150°c immediately fit into the ring interior.
 Make sure the tool is installed so that the heat will transfer to the ring. Remove the ring.
- In order to install the new ring use the old ring on the bearing press-fit tool.
- Heat the periphery of the bearing housing, use the installation tool and light pressure to install the new bearing.
- Install a new oil seal.
- To install the new ring reheat the tool to around 150°c. Insert the new ring in the proper location







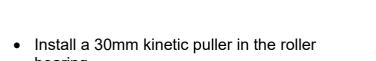




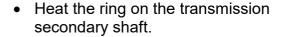
REPLACING ENGINE COMPOENTS

) Gear box output bearing.

- Start by removing the ignition housing (Cf) Disassembly of the left side).
- Unscrew the bearing locking screw, and remove the retaining plate.



- Heat the periphery of the bearing.
- Remove the bearing.



- Place a 2-finger puller on secondary shaft and remove the ring.
- use the old ring on the bearing installation tool, heat the periphery of the bearing.

- Install the bearing in its housing using light pressure; make sur it seats in the bottom of the housing.
- Put blue thread lock on the screw and replace the retaining plate, tighten the screw to 5Nm.
- Heat and install the new bearing ring.
- It is recommended that you replace the output shaft seal at this time.











) Checking the crankshaft:

) Balancing mass, External dimension control.

 Using a caliper, measure the outer distance of the balancing mass.

External value: 64.3mm +0 / -0.2



I Radial clearance of the connecting rod head.

- Fit the crankshaft on a set of V-blocks and place a dial indicator against the head of the connecting rod.
- Move the connecting rod head towards the gauge, then in the opposite direction.
- The difference between these two measurements corresponds to the radial clearance.

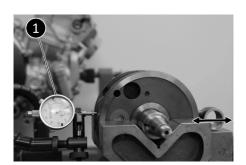


Standard: 0.015 mm - 0.025 mm

Limit: 0.06 mm

If the radial clearance is greater that the

tolerated limit, the crankshaft must be replaced.



I Lateral clearance of connecting rod head.

• Using a feeler gauges, measure the connecting rod head side play;

Lateral clearance connecting rod head:

Standard: 0.8 mm - 1 mm

Tolerated limit: 1.25 mm

If the clearance is greater than the tolerated limit, the crankshaft must be replaced.



) Checking the crankshaft runout.

- Place the crankshaft on an alignment device or a set of V-blocks and locate the dial indicators as shown in the picture.
- Then slowly rotate the crankshaft. The maximum difference between the measurements corresponds to the centring of the crankshaft.



Standard: 0.03 mm maxi
Tolerated limit: 0.05 mm



> Piston and cylinder inspection:

> Piston.

If you want to use a piston that has been in service then you must check the following points:

Skirt:

Look for any traces metal transfer (scuffing). Light amount of scuffing can be removed with a soft stone.

• Piston ring grooves:

The piston rings should not get fit tight in the ring groove.

• The piston ring retainers :

They must not be worn or loose.

Piston rings:

Check condition and end gap.



Ø PISTON		
250	66.36	Α
250	66.37	В
300	71.96	Α
	71.97	В

) Checking the end gap

- Insert the piston ring into the cylinder and use the piston to locate them at approximately 10 mm below the upper edge of the cylinder.
- Using a feeler gauge measure the end gap.

Gap clearance:

Standard 0.35-0.45mm, **Limit** 0.65mm.

If the clearance is greater than what is indicated, it is then necessary to check the condition of the cylinder and the piston. If they are within tolerance then replace the piston

) Checking the piston pin

Piston pin diameter Piston pin hole diameter

Standard: 17,995-17,998 mm Standard: 18.006-18.010mm

Tolerated limit: 17,962mm Tolerated limit: 18.08mm

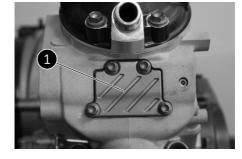
I Checking state of the cylinder wear

• To determine the cylinder wear. Measure the cylinder bore with bore inspection tool. Mesure about 10mm fril the top edge of the cylinder. Take readings 90 degrees apart to check for the possibility of ovalization.

Cylinder	Cylinder bore	Piston
250	66.410-66.420	Α
	66.421-66.430	В
300	72.10-72.020	А
	72.021-72.030	В

) Disassembly of the valve mechanism .

Remove the valve cover ①.



- Remove the screws from the valve
 actuator cover 2 taking care to not lose the metal spacers.
- Remove the cover
- Remove the actuator valve.

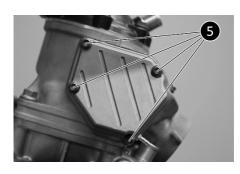




Remove the 2 screws 3, remove the actuator support 4.



Remove the 4 screws **5** from the exhaust chamber cover.



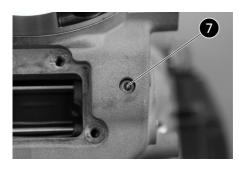
Degrease the exhaust gas chamber.



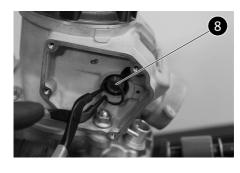
Make sure that the drain hole **6** is not clogged.



Remove the stop screw **1** and its copper sealing washer.



using inside circlips pliers remove the circlip 8.



Use a clamp and remove the booster valve



Using a rod push out the first valve shaft.



 if it does not come out with the booster, use a pair of pliers to remove the valve axel.



Remove the valve from the housing.



) Functional check.

- Clean and descale all disassembled parts.
- Visually inspect the exhaust barrel and use your fingernail to make sure there are no scratches on the barrels.
- Inspect the exhaust valve axel and replace if there are deep scratches them.
- Check the play in the booster bearings, make sure they rotate freely.



) Assembling the valve mechanism.

Systematically replace all of the top end gasket.

• Place the valve in its housing.



 Install the booster and its circlips in the exhaust chamber.



Install the first valve shaft.



 Position the second valve shaft, tacking care to make sure it is inserted correctly in the booster.



Install the second booster into its housing.



 Tighten the booster stop screw 1 at 4Nm do not forget to install is sealing washer.



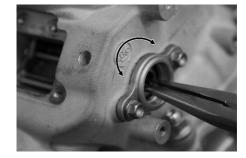
- Use the new gasket and install the actuator support
- Tighten screws 3 and 4 to 10Nm.



Warning: screw 3 is a 6 x 20 screw use

a washer **5** while the screw **4** is a 6 x 16 screw and does not have an attached washer.

- After reassembly, check the side play of the central valve the minimum is 0.1mm.
- Operate the system through is rotational movement.



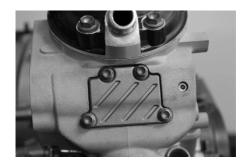
 Check to make sure that the valve opens 100 %.



• Check to make sure the that the valve closes 100 %.



- Install the valve cover along with a new gasket.
- Tighten the 4 screws to 6, 5 Nm.



 Install the exhaust chamber cover along with a new gasket and tighten the 4 screws to 10 Nm.



WARNING

After any maintenance, operation on the internal parts of the cylinder and / or after changing the cylinder it is necessary to adjust the automatic valves using the Sherco diagnostic tool. 3.4 Actuator test (Page: 66)

> Transmission control

) Clutch

- Check the stopper, needle bearing and washer for wear.
- Check the push rod for wear :
 Minimum length: 194,7mm.
- Check the length of the spring :

Minimum length: 45mm.

Replace the 6 springs if it necessary.

Check lined discs :

Minimum thickness: 2.68mm.

Check the smooth discs, check for deformation :

Maximum deformation: 0.05mm.

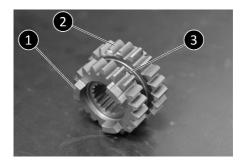
) Gearbox.

- Check all of the gears :
- Check the coupling dogs 1.
- Check the pinion teeth 2.
- Check the fork grooves 3.
- Check the condition of the shifter lock forks.

Thickness limit value: 4.87 mm

 Check the selector drum; make sure that there is no deformation or abnormal wear.

Replace the selector drum if necessary.





) I Assembling the crankshaft and the gearbox

Start by cleaning the engine casings thoroughly, do not hesitate to blow into the lubrication passages and remove all impurities.

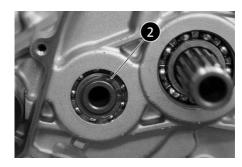
 Install a new O-ring 1 at the end of the crankshaft.



 Simultaneously install the two-gear box shaft assembly.



• Install circlips **2** on the secondary shaft on the clutch side.



- Replace the selector drum.
- Coat the fork guide pins with grease and install the rollers 3.



Warning: Always replace the fork roller with new ones when reassembling.

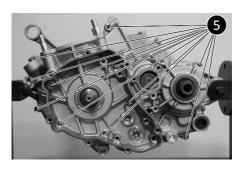
• Lubricate the fork axels 4 with oil, put them in place by carefully installing the forks in the track in the selector drum.



Place an O-ring on the end of the
 lubrication tube 5 and install it in the crankcases as show.



- Install the location pins on the crankcase housing.
- Install a new gasket.
- You can install the ignition side crankcase housing.
- Tighten the 12 vis 6 to 10Nm.



I Assembly the ignition and starter assembly.

 Place the crankshaft sensor in position and attach with its 2 screws 1 tighten to 7Nm.



Install the half-moon key in the slot in the crankshaft.

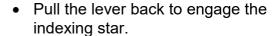


- Install the rotor on the crankshaft.
- · Apply blue thread locker to the threads.
- Use tool 4753 to hold the rotor and tighten the nut to 60Nm.



) Gear selection mechanism.

- Install the spring in the housing with curved ends up. The other end of the spring should rest against the housing
- Install the spacer, the locking finger, and the washer, apply blue threat locker to the screw tighten to 10Nm.
- Install the indexing star and pin on the drum.



 Apply blue thread locker to the screw and assemble the selection star to the drum.
 Tighten the screw to 10Nm.

- Lubricate the selector axle assembly and install it along with the needle bearing without forgetting the shim washer.
- Make sure the return spring fingers are properly located against the housing.
- Install the gear selector and make sure that all of the gears can be accessed.
 When does this operation the gearbox output shaft must be rotated.
- Remove the gear selector.





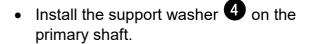






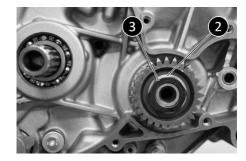
) Primary transmission and clutch.

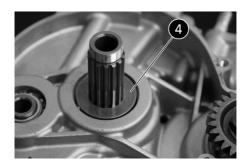
- Lubricate the crankshaft seal and insert it into its housing.
- Install the spacer **1** that you have preoiled on the crankshaft.
- Install the half-moon key on the crankshaft.
- Install the conical washer 2 and the nut



- Install the clutch housing; install the
 spacer 5 and the needle bearing 6
 after lubricating them.
- Install the clutch support ring **1** on the primary axel.
- Install the clutch nut, the conical washer and then apply red thread lock on the threads.









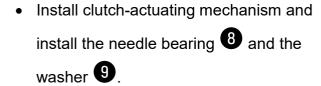


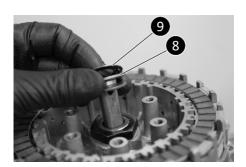
• Using the tool 5749 to hold the clutch housing tighten the nut to 100Nm.



- · Oil all of the clutch discs.
- Install them in the clutch basket alternating a smooth disc and a disc with fiber. A disc with the fiber should be the first disc installed

Warning: You must end up with a fiber disc which is housed differently from the others discs in the guide grooves.





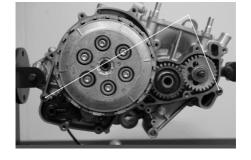
- Install the pressure plate, the clutch springs and the screws in their cups.
 Tighten the CHC to 10Nm.
- Using the tool 5206 tighten the primary pinion nut to 150 Nm.
- Check to make sure that the assembly rotates freely.
- Install the locking washer on the water pump balance wheel shaft.
- Install the axle tacking care to align the timing marks on both gears as shown in the picture.





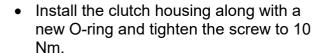
) Clutch housing.

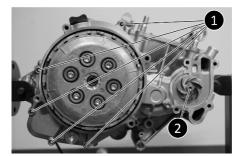
 Check to make sure that the two locating sleeves are securely in place in the housing.

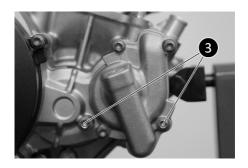


- Install the clutch housing along with a new seal.
- Install 5 clutch cover screws 1 tighten to 10 Nm.
- Tighten the water pump rotor 2 to 10Nm.
- Install the water pump housing along with a new O-ring. Tighten the screws to 10 Nm.

Warning: screws **3** have a sealing washer.









Installing the electric starter.

• Install the torque limiter in its housing.



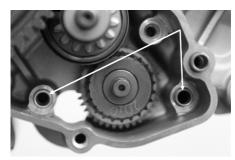
 Before you install the starter launcher, make sure that the support washer is installed.



• Place the starter motor into its housing.



• Installed the 2 locating pins for the limiter support.



- Install the limiter support; grease the pinion with spray grease.
- Tighten screws to 10Nm.

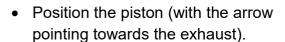


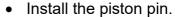
) Piston et cylinder

- Oil all the parts thoroughly before installation.
- Place tool 5774 as shown.



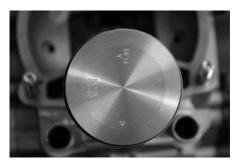
Install the needle bearing in the connecting rod.



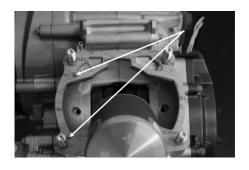


- Using the circlips installation tool install the piston circlip with open facing down.
- Install a new base gasket.
- Install the cylinder location sleeves.
- Make sure the piston rings are properly installed.
- Oil the piston and the cylinder.
- Install the cylinder.
- Install the shoulder nut on the studs.
- Tighten the shoulder nut in 2 passes; 1st pass at 20Nm, 2nd pass at 35Nm.









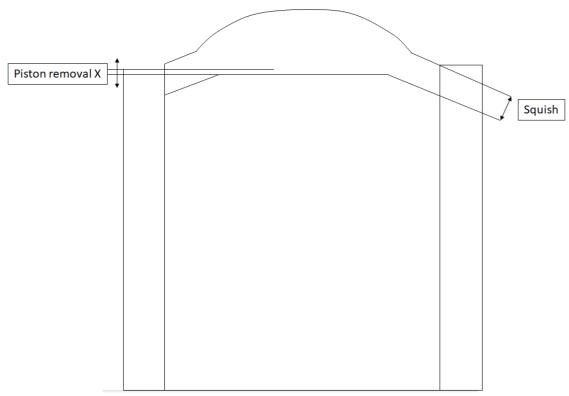




 Control the squish by measuring the distance between the flat of the piston at top dead center and the cylinder head plane. Depending on the value obtained from the squish chart below it may require the installation of one or more base gasket

WARNING

To correctly take the measurement make sure that a 0.5mm base gasket is installed



Protrusion measurement or withdrawal (-) piston (X mm)					
Made with 0.5 mm gasket	1 st squish with gasket 0.5 mm	Thickness of gasket to obtain Squich 1,7 mm	Sherco ref from gasket up to 1.7mm of Squich		
X ≤ - 0,25	1,9 mm	0,3 mm	4942		
-0,25 < X ≤ - 0,15	1,8 mm	0,4 mm	7238		
$-0.15 < X \le -0.05$	1,7 mm	0,5 mm	3840		
$-0.05 < X \le 0.05$	1,6 mm	0,6 mm	4942 + 4942		
$0.05 < X \le 0.15$	1,5 mm	0,7 mm	7238 + 4942		
$0,15 < X \le 0,2$	1,45 mm	0,75 mm	4943		

) Cylinder head.

- Clean the gasket surface of the cylinder and the cylinder head.
- · Install two centering pins on the cylinder.
- Install the cylinder head O-ring.



- Install the cylinder head.
- Install the shoulder bolt along with new cooper washers.
- Tighten the bolts in tree passes and crosswise to 25Nm.
- Coat the temperature sensor with waterproofing Loctite ® 577.
- Install the temperature sensor along with a new seal and tighten to 20Nm.



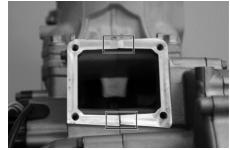


I Reed valve and intake pipe

Over time the carbon reeds can gradually lose their elasticity which causes a loss of power.

Replace damaged or worn reed valve assembly.

 To ensure a good seal apply sealer to the housing junction.



- Install a new reed box seal.
- Install the reed valve in the inlet pipe.

- Install the 4 screws and tighten to 10 Nm.
- Inspection the inlet rubber sleeve and make sure it is not cracked.





Install the clamp on the inlet pipe.

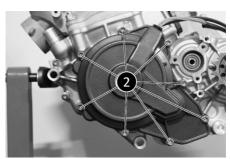


Installation of the ignition cove.

- Install the 2 guides 1.
- Install a new gasket.

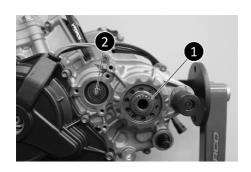


- Install the cover.
- Tighten the 8 cover screws and tighten to 10Nm.
- Install the inspection cover and tighten to 8Nm.



) Gearbox output pinion and clutch push rod.

- Install the gearbox output pinion of the secondary shaft and install the circlip
- Oil and install the clutch push rod 2 in the primary shaft.
- Replace the drain plugs and fill the crankcase with gear box oil.



REPLACING ENGINE COMPONENTS

) Water pump / balnce shaft bearing.

- Start by removing the clutch housing (See: <u>Disassembly of the right side</u>).
- Remove the water pump / balancer shaft.



Use tool 8987.



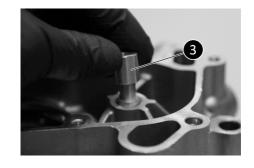
• The tool consists of the 6 different parts.



• inser the claws ① one by one into the bearings, both bearings must be removed at the same time.



Once the claws are in the bearings install ring 3 on it.

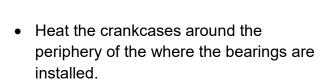


REPLACING ENGINE COMPONENT

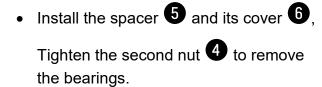
Screw the threaded rod 2 into the claws.



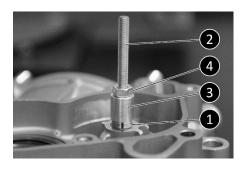
- Install nut 4 while keeping the claws
 - 1 and the spacer 3.



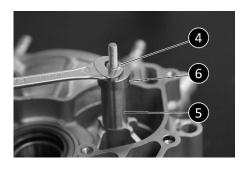
Warning: Do not hesitate to heat well at the risk of damaging your tool.



- Install the 2 new bearings on the tool 10027, heat the periphery of the housing and use a press to simultaneously press both new bearings into the bottom of the housing.
- Warning: Press the bearings in smoothly so as to not risk getting metal between bearings.

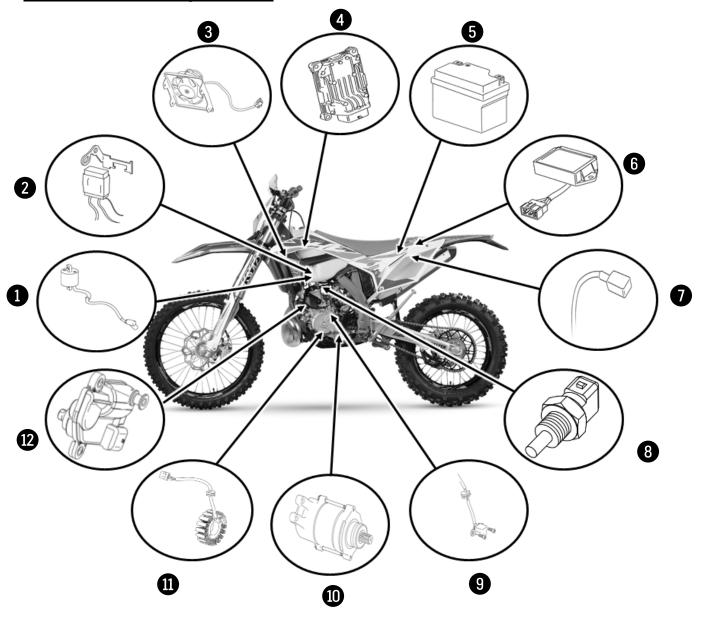








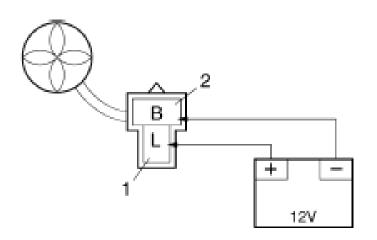
) Electical components



Position	Designation	Position	Designation
1	Coil	7	Relay
2	Additional CDI	8	Temperature sensor
3	Fan	9	Hall sensor
4	CDI	10	Starter
5	Battery	11	Alternator
6	Regulators	12	Valve motor

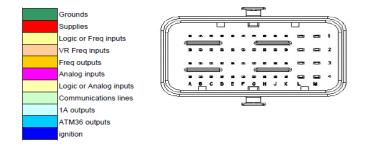
) 1- Fan control

- Disconnect the fan from the harness.
- Connect a 12v battery directly to the fan as shown in the diagram.
- Check to make sure the fan run smoothly without any excessive noise.



) 2-CDI





) 3-Checking voltage regulator

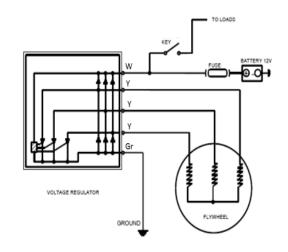
· Voltage regulator:

On regular output (Withe wire)
A 3500 RPM/min: 14.4V +/- 0.5V

Checking diode bridge:

Connect a multimeter between the positive (With wire) and each of the phases (Yellow wire)

The resistance should only be measured in one direction.



) 4-Battery check

 Connect a multimeter to the + and - battery terminals and check its voltage la

Value read:

12.8V → Battery charged

12.7V or less→ Charge battery

Less than 12V → Replace battery

) 5-starter check

- Remove the starter and position it in a vice
- Connect a battery directly to the starter (positive on the starter terminal and the negative on the starter body) as shown in the diagram.
- In the event of abnormal operation, open the starter and clean the contacts between the starter brushes and the armature.

) 6-Checking the alternator

 Checking the resistance of the alternator windings.

Connect a multimeter between each phase of the alternator (Yellow wire) and measure the resistance.

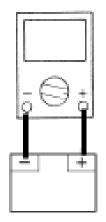
Winding resistance: $0.44\Omega + - 15\%$

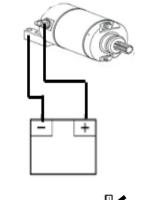
 Checking the output voltage of the alternator.

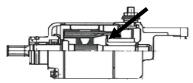
Connect the multimete between each phase of the alternator (Yellow wire) and ground (Multimeter in alternative position) Measure the output voltage.

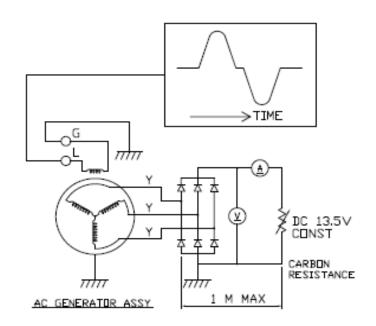
Idling: 22V +/- 2V

At 6000 RPM: 77V +/- 3V









1 7-Checking the (crankshaft) hall sensor

Sensor resistance check.

Connect the multimeter between the red and green wire of the sensor and measure the resistance.

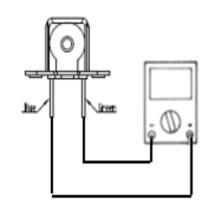
Sensor resistance: 100 Ω +/- 20%

Checking the output voltage of the sensor.

Connect a multimeter between the blue wire and ground and measure the voltage.

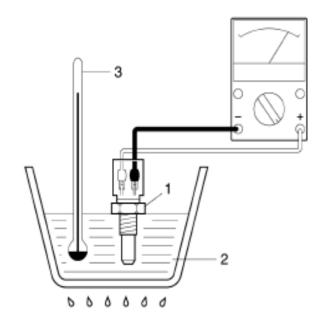
At 300 RPM: 1.7V minimum

At 10000 RPM: 120V maximum



) 8-Temperature sensor check

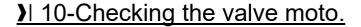
- Drain the coolant.
- Remove the temperature sensor.
- Immerse the sensor [1] in a container filled with cooling liquid [2] and leave the terminals out of the liquid.
- Immerse a thermometer [3] in the liquid to observe the temperature.
- Heat the liquid slowly and check the resistance of the sensor using a multimeter connected as shown in the diagram as a function of the liquid temperature.



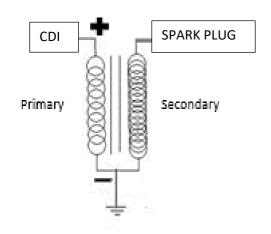
TEMPS (°C)	RESISTANCE (Ω)
25	3000
30	2415
40	1620
50	1081
60	748
70	528
80	379
90	278
100	206

) 9-Checking the ignition coil

- Remove the ignition coil.
- Using a multimeter, measure the primary coil resistance in the following manner.
- Primary coil: measure the resistance between the ground and the coils output to the CDI.
- Secondary coil: measure the resistance between ground and the spark plug.
- Primary resistance: O.30 KΩ +/- 15%
 à 20°C
- Secondary resistance: 6.3 KΩ +/-20% à 20°C.

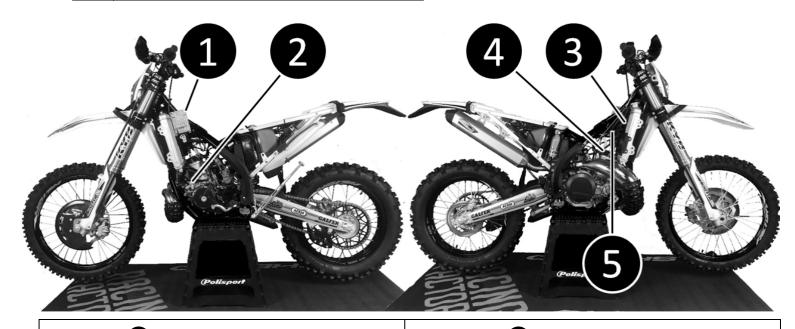


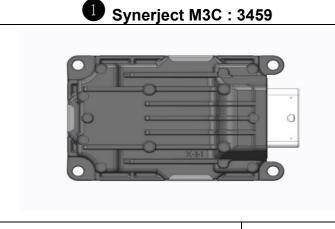
 In order to check the valve motor, refer to the diagnostic check: 3.4 Actuator test (Page: 66)

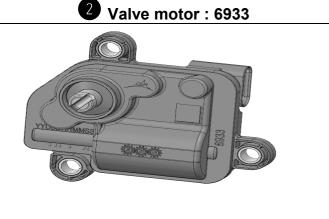


SYNERJECT > INJECTION SYSTEM PRESENTATION

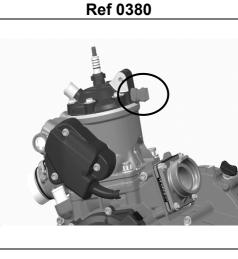
1.1- Components Identification



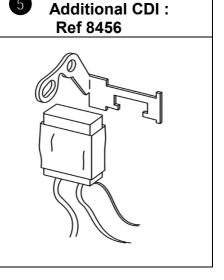








Temperature sensor:



1.2- Description Exxodiag diagnostic Tools Ref: kit 8561

The diagnostic tool allows you to perform diagnostic operations, make updates to the injection mapping and to determine certain information (serial number of the motorcycle, number of hours of operation, etc.).

1.3- Diagnostic tool kit contents.

The diagnostic kit (Ref : 8561) consists of a USB to MUX output cable, a MUX device, a MUX to motorcycle diagnostic connector cable, a shunt and a user manual.

http://download.annecyelectronique.com/Exxodiag/Sherco/ShercoDiag Setup.exe

1.4- Installation of the diagnostic tool.

In case of problem during the installation please contact EXWOTEST at +33 (0)4 50 02 34 34 or by mail to courrierxxotest.com.

A- Installing the software and drivers

- Open the installation link on your computer
- Run "sherco setup"

Exxodiag - Notice utilisateur - User guide

Sherco_Setup

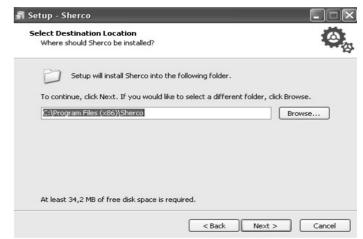
• Select the desired language.



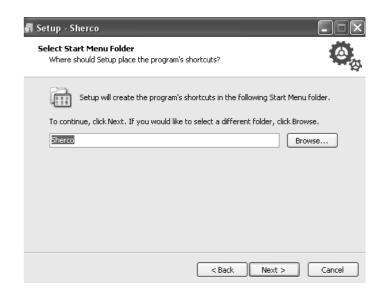
Click on "Next".



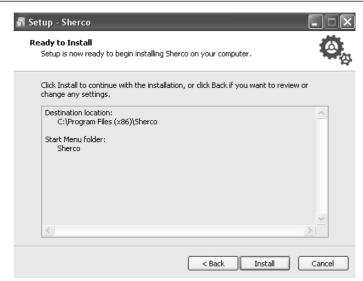
 Select the folder where you want to install the sofware.



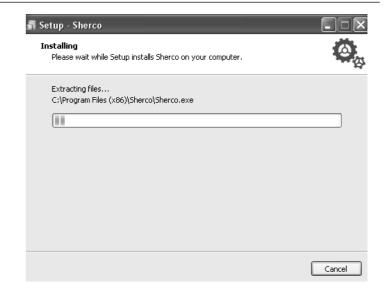
Click on "Next".



Click on « Install ».



Installation in progress.



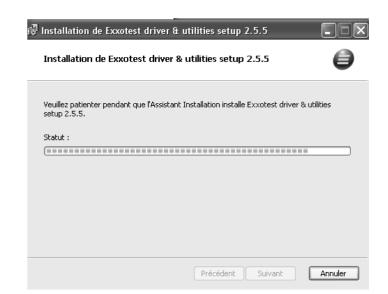
 Check the box "Start the driver installation" and click on "Finish".



 The next window opens. Read the terms of the License Agreement Check « I accept the terms of the License Agreement » and « Install »



Installation in progress.



• The following window will open. Click on « Finish »



Installation is now complete.

B-Connection between computer, « Muxdiag II » and motorbike

Connect the cable to the diagnostic connector of the motorcycle.

Make sure the "Muxdiag II "unit is properly powered by checking the LED:

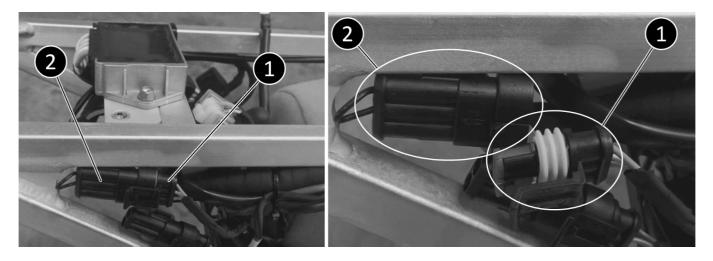
- **Fixed blue**: Computer connection properly established.
- Flashing blue: Computer connection in progress.
- **Blue off:** No connection with the computer, or device in standby, it can also indicate a problem with the USB connector.
- Fixed green: Firmware issue.
- Flashing green (slow): Correct execution of the firmware.
- Flashing green (quick): Communication with the computer in progress.
- Green off: No firmware.
- **Fixed red**: Correct power supply to the card.
- All LEDs off: The outlet is not powered on, or is off or USB is on standby mode.

PRESENTATION OF THE SOFTWARE

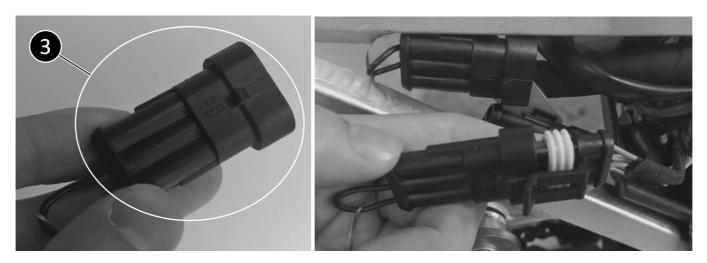
2.1- Connection with keyless system

Sherco has equipped its motorbikes with a "keyless" system that a allows keyless operation and automatically turns off the ignition after 30 seconds of inactivity. This las point prevents the diagnosis from being made; which is why it is essential to follow the following step before any operations

1. Remove the plug 1 from the connector 2 (located on the rear sub frame – on the right part of the bike).



2. Take the shunt 3 (*Ref: 6267*) and connect the plug 1 into it.



3. You can now do the diagnostic by following the next explanations.

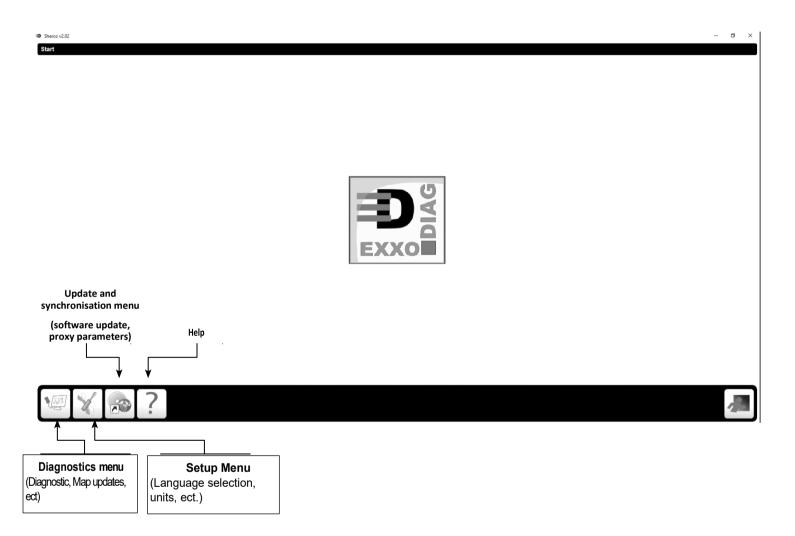
Information: To set up the connection with the motorcycle, the motorcycle must be switch on with the shunt.

To navigate through the different menus, only the USB cable with the "Muxdiag II" box must be connected to the computer.

Start the software using the icon on your desktop:



The following menu will come up:



2.2- Software settings

• Configuration menu:



In this menu, you can modify:

• The diagnostic plug. You can refresh the list by hitting the button.

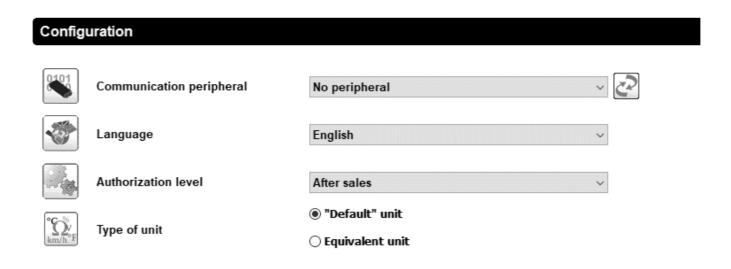


The number must match the number of your « Muxidiag II » device.

- The language available in the software: French, English, Spanish, Portuguese, German, Italian.
 Make a software update; see: 2.3- Update menu and synchronization (Page 60)
- · Set the units.
- Click to return to the home screen.
- Click to save the changes.



?



2.3- Update menu and synchronization











A- in this menu, you can update the diagnostic sofware tool.

 To find out if an update is available, check that you have an internet connection, then click on the following icon



• If an update is available this window will appear:



 If no update is available, the following window will appear:



• Click on

to start downloading the

update.



- The following message fill come up.
- Click on

to start the installation



• Repeat the installation steps. It is not necessary to repeat the driver installation.

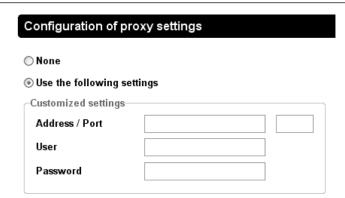
B- Configuration of internet access parameters

It may be necessary to set up a proxy server to access the inter.

Click on



Fill in the following settings necessary



Click on to save your changes.

3 - Use of the software

Diagnostic menu and injection mapping update.



General

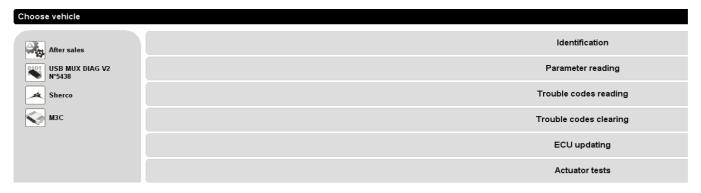
Click on « Sherco' ».



Click on « M3C ».

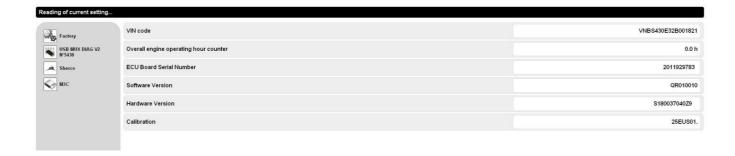


• You reach the following menu:



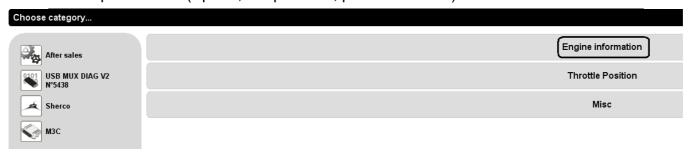
3.1 Identification

Identification check (Serial number, Vehicle operating hours, calibration number....)



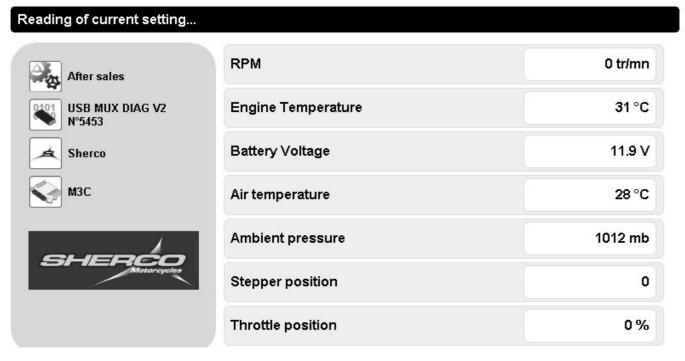
A.Measurement of parameters:

General parameters (Speed, temperature, pressure ect....)



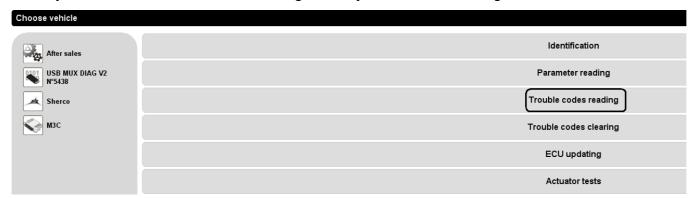
B.Engine information

The main values of the system appear:



3.2 Reading trouble codes

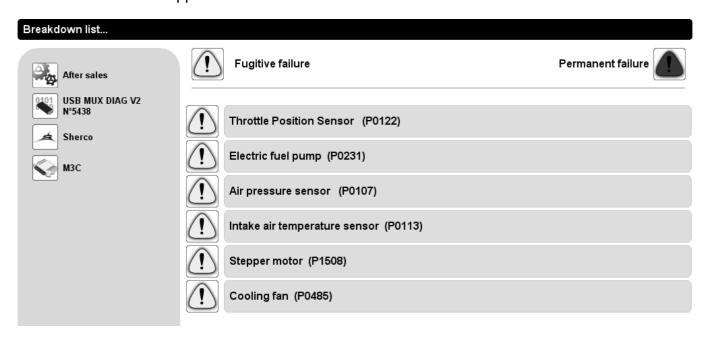
If you click on « trouble code reading » the system start checking.



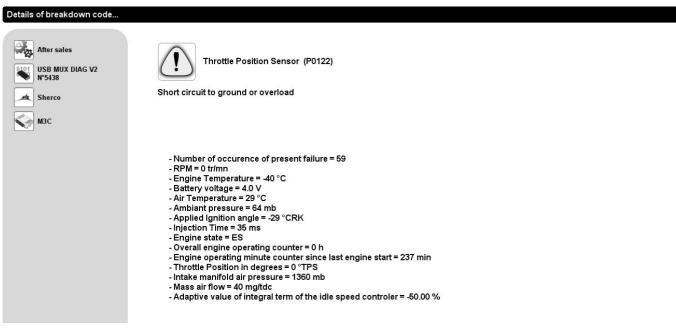
• If no trouble codes appears exit the menu by clicking on this icon :



If trouble codes appears :



You can get the details of the default by clicking on the default display :



- Record the defaults and exit the by clicking on this icon
- Record the defaults and exit the menu by clicking on :

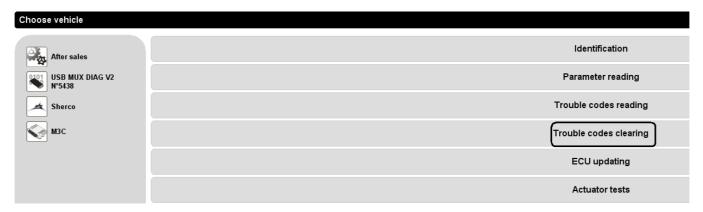


Note:

- 1- **Fugitive/Permanent fault**: A fugitive fault becomes permanent after variable number of engine cycles depending on the components (injector, fuel pump, etc.). For a permanent fault to disappear, it is necessary to wait 40 engine cycles without the fault appearing.
- 2- **Fan fault**: If there is no fan installed on the motorbike, there will always be a rise in the fan fault (P0485).

3.3 Erasing fault codes

A. If fault code appears: go to the menu "trouble code cleaning ".



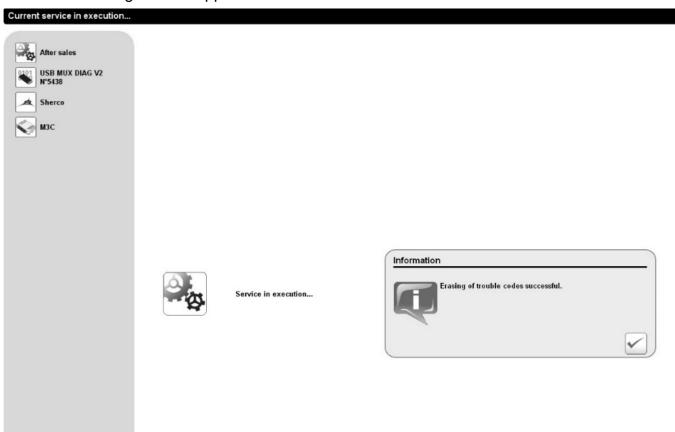


Clear all Diagnostic Trouble Codes?

• Click on in order to clear all the defaults codes :



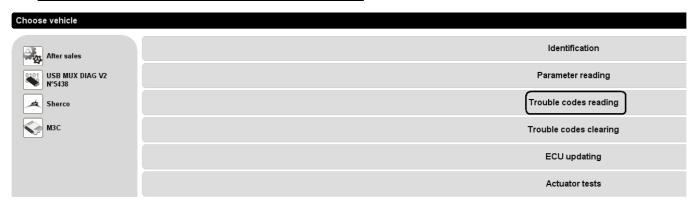
The following window appear:



• Confirm by clicking on :



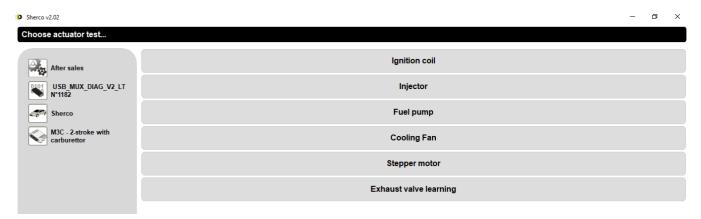
B.Return to the "trouble code reading" menu



- Check and make sure that the default are the same as befor. Check / Replace the defective parts.
- Check all the connections.

3.4 Actuator test

In addition to reading the trouble codes, you can also test certain system components:



1-Ignition coil

When you launch the ignition coil test, the following message will appear:

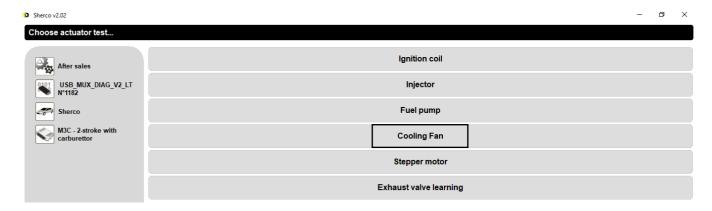


The system is not able to detect an ignition coil failure with the engine stopped. The test result will be the same if the coil is faulty or not. Therefore, when testing the ignition coil make sure that the engine makes the correct sound for a properly functioning ignition coil.

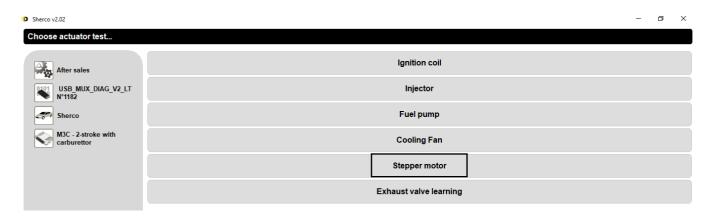


2- Cooling fan

For the fan, the test is "standard" and the fault or correct operation will appear as a classic default.



3- Valve motor learning



3.5 ECU update

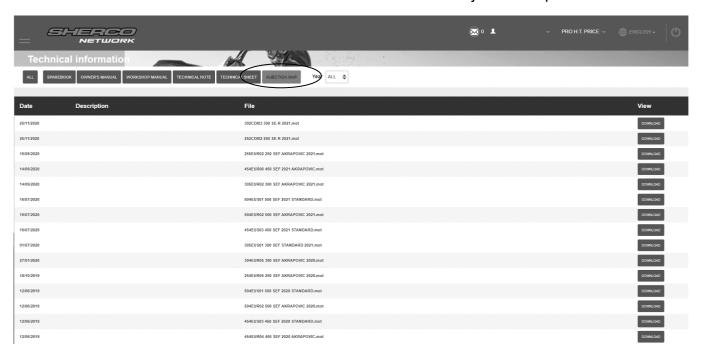
With the diagnostic tool, it is possible to update the ignition maps (calibration). For a Racing silencer, for example, or because an update is proposed by the factory.

You must pay attention to the model, the displacement, the type of exhaust, ect...

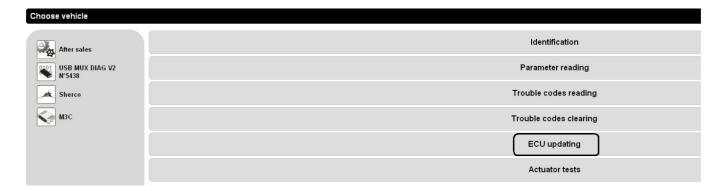
In case of doubt, contact the technical support:

1. Download the desired update (file ".mot")

ShercoNetwork→Information→Technical information→Injection map.



- 2. Power up the motorcycle
- 3. Click on "ECU updating"





Update ECU now?

Confirm by clicking on this icon:



Select the previously downloaded calibration ".mot" and click open.

4. The file is being downloaded



WARNING

Do not switch off the motorbike power supply during the dowload operation.

Do not switch off the sofware during the flash

Risk off irremediable damage to your ECU.

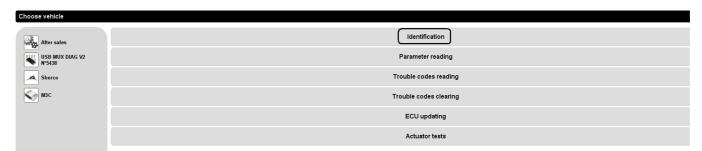
5. At the end of the updating the following message will appear:

INFORMATION: Download was successful

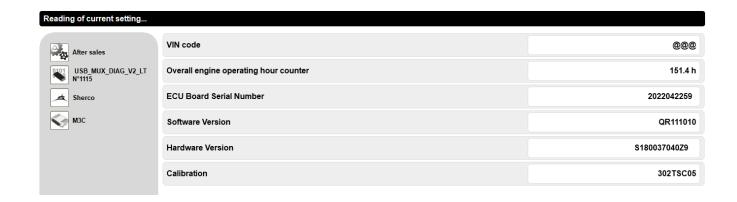
Confirm by clicking on:



6. Check the correct allocation of the calibration file by selecting « Identification »



Check to make sure that the file name matches the file that was download.



Information: Serial N° and operating hour's information is not rest during a calibration update.

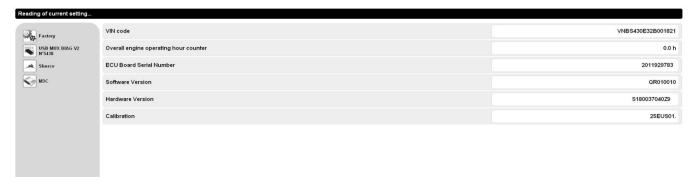
- 7. Put the "Shunt" back on the connector in the air box to switch back to "Keyless" mode.
- 8. The procedure of the ECU power latch will proceed during 20 seconds.
- 9. Wait 30 seconds for the ECU to turn off before starting the motorbike.
- 10. Star the motorbike, switch it off and wait another 30 seconds before the next start.
- 11. Start the motorbike and check that the engine parameters are normal.

3.6 Print screen function

In the event of communication with technical support and to enable quick identification of possible problems, you can attach screen print files to your message using the print screen key on your keyboard as shown below.



The "identification" tab is very important for good communication (serial number of the motorbike, engine hours, calibration, etc....)



TIGHTENING TORQUES

Standard torque		Thread locker
M5	7 Nm	
M6	10 Nm	
M8	25 Nm	
Frame Tightening Torque		Thread locker
Rear wheel axel nut	100 Nm	
Aluminium sub frame bolts	24 Nm	Blue
Front wheel axel nut	40 Nm	
Front brake caliper crews	25 Nm	Blue
Brake pad axel screws	8 Nm	Blue
Fork leg clamping screws	15 Nm	
	12 Nm	
Top steering head screw	17 Nm	
Top steering stem screw	WP 12 Nm / KYB15 Nm	
Bottom triple clamp screws	WP 17 Nm / KYB 17 Nm	
Top triple clamp screws		
Engine axels	60 Nm	
Swing arm nut	100 Nm	
Cylinder head → Frame screws	24 Nm	
Engine Tightening Torque		Thread locker
Crankshaft position sensor	8 Nm	Blue
Water pump drain screw	10 Nm	
Gear oil level screw	10 Nm	
Water pump impeller	10 Nm	Blue
Clutch slave cylinder screws	10 Nm	
Cylinder head tightening, cross-shaped	2 Passes to 25 Nm	
Coolant temperature sensor	20Nm	Yellow
Crankshaft hole cap	10 Nm	
Clutch pressure screw	10 Nm	
Water pump cover screws	10 Nm	
Ignition flywheel nut	60 Nm	Red
Clutch nut	100 Nm	Red
Primary transmission pinion nut	150 Nm	Red
Ignition cover screws	10 Nm	
Central housing screws	10 Nm	D-4
Drum screw	10 Nm	Red
Starter torque limiter screws	10 Nm	
Starter	10 Nm	
Cylinder nuts	Passes No. 1→20 Nm Passes No. 2→35 Nm	

CARBURETOR TUNING

) SE 250-Tableau réglage carburation

Sea level	Temp	-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	Air adjust screw	1T1/4	1T3/4	1T3/4	2T1/4	2T1/4	
(10,000f ft)	Idling jet	42	42	40	38	35	
to	Needle	N1EG	N1EG	N1EH	N1EH	N1EI	
2.301 m (5,001 ft)	Position	3	2	2	2	2	
(3,001 11)	Main jet	165	162	160	160	158	
2 300 m	Air adjust screw	1T1/4	1T1/4	1T3/4	1T3/4	2T1/4	2T1/4
(7,500 ft)	Idling jet	45	42	42	40	38	35
to	Needle	N1EG	N1EG	N1EG	N1EH	N1EH	N1EI
1 501 m (5,001 ft)	Position	3	3	2	2	2	2
(0,00111)	Main jet	165	165	162	160	160	158
1 500 m	Air adjust screw	1T	1T1/4	1T1/4	1T3/4	1T3/4	2T1/4
(5,00 ft) to	Idling jet	45	45	42	42	40	38
	Needle	N1EF	N1EG	N1EG	N1EG	N1EH	N1EH
751 m (2,501 ft)	Position	3	3	3	2	2	2
(2,001 it)	Main jet	168	165	165	162	160	158
750 m	Air adjust screw	1T	1T	1T1/4	1T1/4	1T3/4	1T3/4
(2,500 ft)	Idling jet	48	45	45	40	42	40
to	Needle	N1EF	N1EF	N1EG	N1EG	N1EG	N1EH
301 m (1,001 ft)	Position	4	3	3	3	2	2
	Main jet	170	168	165	162	162	160
300 m (1000 ft) to	Air adjust screw	1T	1T	1T	1T/4	1T1/4	1T3/4
	Idling jet	50	48	45	45	42	42
	Needle	N1EE	N1EF	N1EF	N1EG	N1EG	N1EG
0 m 0 ft	Position	4	4	3	3	3	2
.,	Main jet	172	170	168	165	165	162

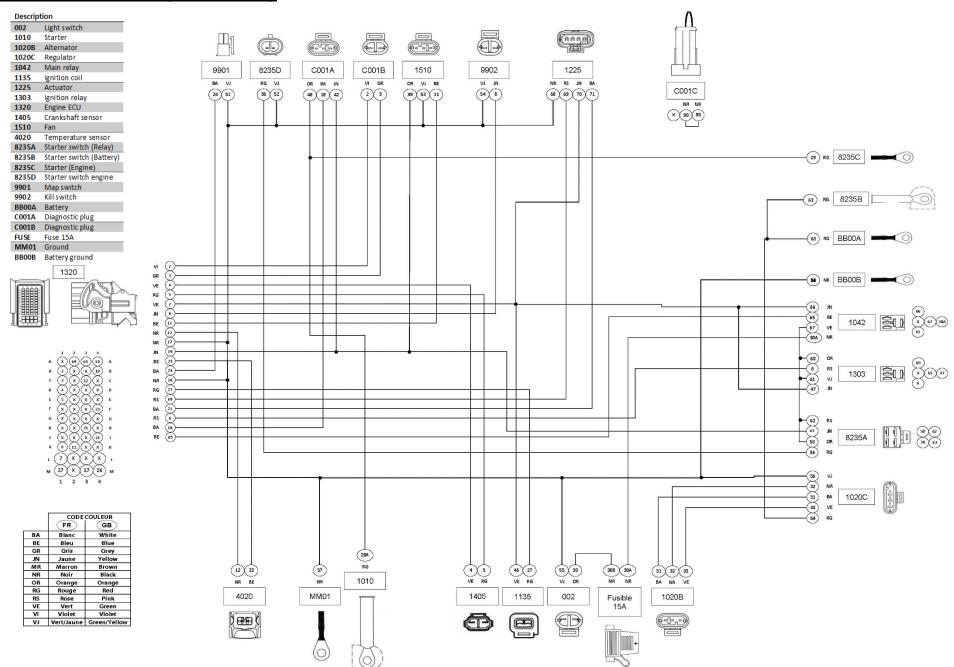
CARBURETOR TUNING

) SE 300-Tableau réglage carburation

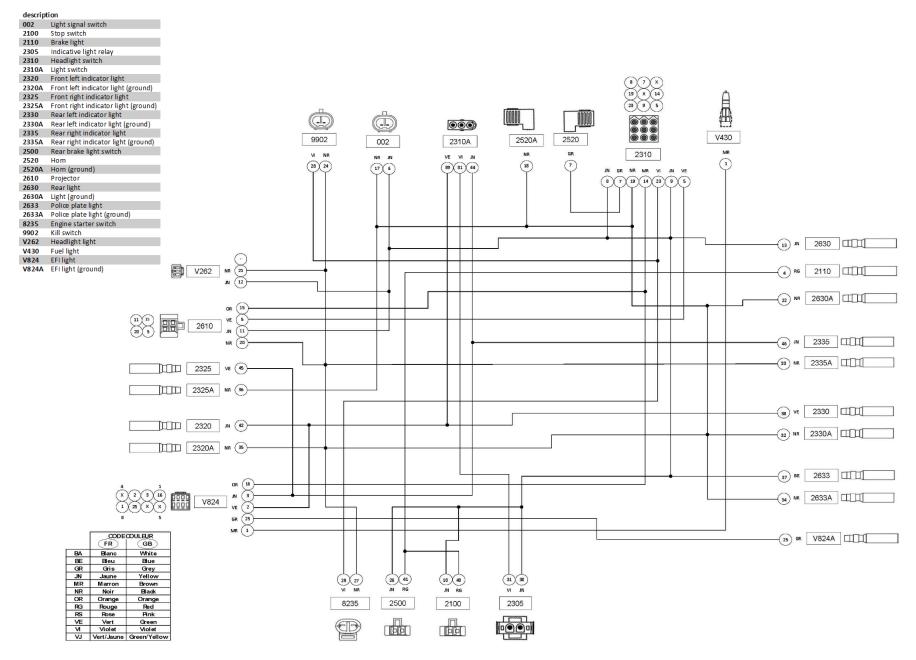
Seal level	Temp	-20°C→ -7°C	-6°C→ 5°C	6°C→ 15°C	16°C→ 24°C	25°C→ 36°C	37°C→ 49°C
3.000 m	Air adjust screw	1T1/2	1T/1/2	2T	2T	2T1/2	3T
(10,000f ft)	Idling jet	38	38	38	38	38	38
to	Needle	N8RE	N8RE	N8RF	N8RF	N8RG	N8RH
2.301 m	Position	3	2	2	1	1	1
(5,001 ft)	Main jet	165	165	162	160	158	158
2 300 m	Air adjust screw	1T	1T1/2	1T 1/2	2T	2T	2T1/2
(7,500 ft)	Idling jet	40	40	38	38	38	38
to	Needle	N8RD	N8RE	N8RE	N8RF	N8RF	N8RG
1 501 m	Position	3	3	3	2	2	1
(5,001 ft)	Main jet	168	165	165	162	160	158
1 500 m	Air adjust screw	1T	1T	1T1/2	1T1/2	2T	2T
(5,00 ft)	Idling jet	42	40	40	40	40	40
to	Needle	N8RC	N8RD	N8RE	N8RE	N8RF	N8RF
751 m	Position	3	3	3	3	2	1
(2,501 ft)	Main jet	170	168	165	165	162	160
750 m	Air adjust screw	1T	1T	1T	1T1/2	1T/12	2T
(2,500 ft)	Idling jet	45	42	40	40	40	40
to	Needle	N8RC	N8RC	N8RD	N8RE	N8RE	N8RF
301 m	Position	4	3	3	3	3	2
(1,001 ft)	Main jet	175	172	168	165	165	162
300 m	Air adjust screw	1/2T	1T	1T	1T	1T1/2	1T 1/2
(1000 ft)	Idling jet	45	42	42	40	40	40
to	Needle	N8RB	N8RC	N8RC	N8RD	N8RE	N8RE
0 m	Position	4	4	3	3	3	3
0 ft	Main jet	175	172	170	168	165	165

WIRING DIAGRAM

) Main harness (Ref: 7107)

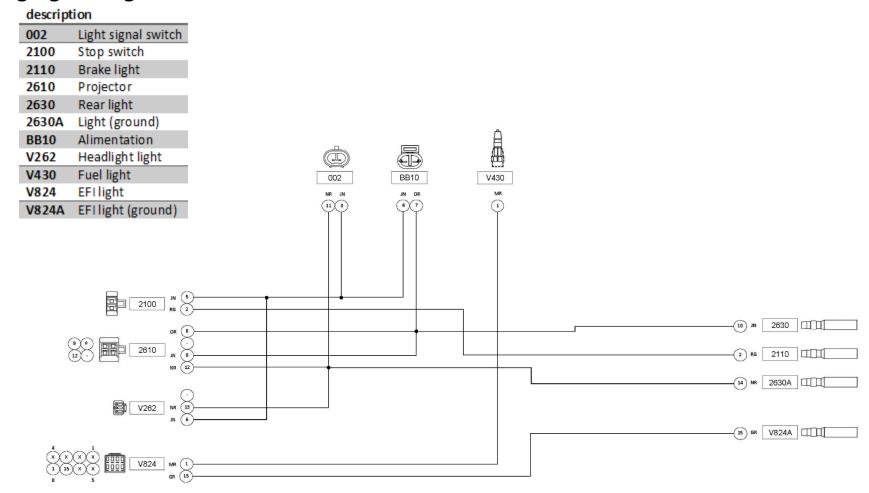


) Homologated light diagram (Ref: 8145)



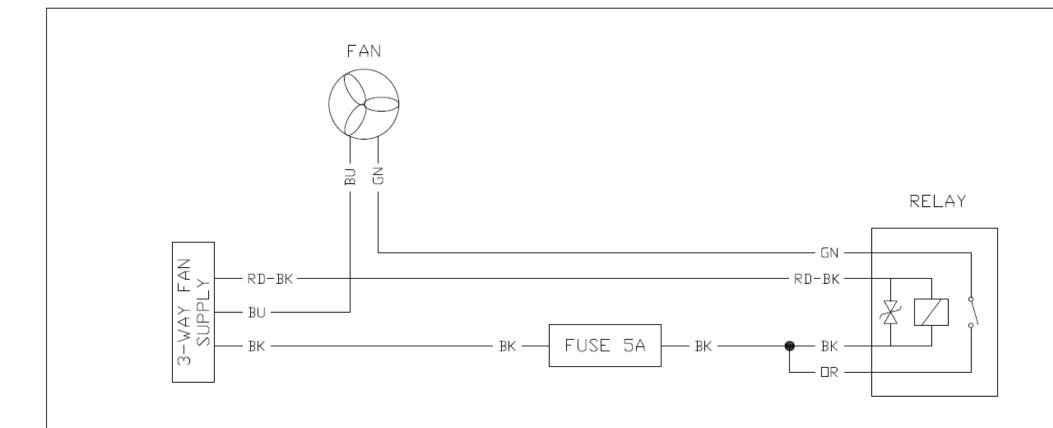
WIRING DIAGRAM

) Racing light diagram (Ref: 6845)



	CODE COULEUR			
	(FR)	GB		
BA	Blanc	White		
BE	Bleu	Blue		
GR	Gris	Grey		
JN	Jaune	Yellow		
MR	Marron	Brown		
NR	Noir	Black		
OR	Orange	Orange		
RG	Rouge	Red		
RS	Rose	Pink		
VE	Vert	Green		
VI	Violet	Violet		
VJ	Vert/Jaune	Green/Yellov		

WIRING DIAGRAM



	COLOR CODE
RD	RED/ROUGE
BU	BLUE/BLEU
GN	GREEN/VERT
PK	PINK/ROSE
BK	BLACK/N□IR
ΠR	ORANGE/ORANGE

NOTES

WWW.SHERCO.COM







































