

SN.



Dr. Tekill & Mr. Hyde®

THE EXHAUST

INSTALLATION INSTRUCTIONS



TRIUMPH® | SMARTBOX 2



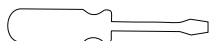
Instruction
video

T120
2021 » Up

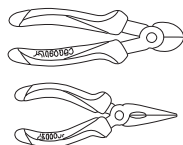
INSTALLATION DIFFICULTY:



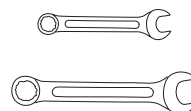
REQUIRED TOOLS:



Flat head screwdriver



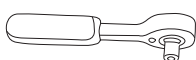
**Diagonal cutter &
Needle-nose pliers**



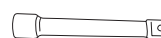
**Combination wrench
metric size 10 & 12**



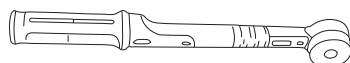
**Socket
size 7 , 8 , 10 & 12**



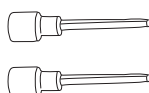
Ratchet (S/M)



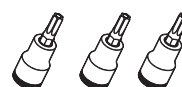
Ratchet extension



torque wrench



**Allen key socket
Size 5 & 6**



**Torx
size 20, 30 & 45**

INSTALATION GUIDELINES:



Warning: pay extra attention



Mechanical or electrical cable:
over/above other part



Mechanical or electrical cable:
under/behind other part

1

Activity order number:
start at 1 and work in ascending order



Torque tightening information:
Use torque wrench to tighten

L+R

Left + Right: Applicable to left and right
side of motorcycle

INTRODUCTION:

Thank you for choosing a **Dr. Jekill & Mr. Hyde exhaust system** for your motorcycle. All Dr. Jekill & Mr. Hyde products are designed, tested, and manufactured by leading professionals in the industry.

WARNING!

Please read this entire manual before attempting to install the exhaust system on your motorcycle. Always refer to the motorcycle manufacturer's workshop manual for **vehicle-specific procedures and technical specifications**. Clean all components before installation to prevent contamination or damage.

If you have any questions, contact **the Dr. Jekill & Mr. Hyde Support Center**.

To ensure the best performance and product longevity, **periodic service and maintenance** are required. Please refer to the Maintenance section for details.

- **Always use a calibrated torque wrench** when tightening components. Failure to apply proper torque can cause parts of the exhaust system or related components to separate, which may lead to loss of control, serious injury, or death.
- **Always use appropriate lift equipment** to securely support the vehicle and prevent tipping. Never place any part of your body under an unstable vehicle.
- Installation should preferably be performed by a **professional motorcycle mechanic**. Proper knowledge of disassembly, reassembly, and post-installation inspection is essential.

Dr. Jekill & Mr. Hyde recommends becoming fully familiar with the handling characteristics of your modified motorcycle before riding under demanding conditions. This will help prevent potential loss of control, serious injury, or death. **Always wear appropriate protective gear** when operating your motorcycle.

SAFETY INSTRUCTIONS:

Dr. Jekill & Mr. Hyde exhaust systems are engineered to fit and provide proper clearance with **original (stock) motorcycle components**. If **aftermarket parts** are installed, it is the customer's responsibility to ensure there is no interference between the Dr. Jekill & Mr. Hyde exhaust and other components at any point.

Proper installation and maintenance procedures are essential for the **safe and reliable operation** of the exhaust system. These procedures require the tools, experience, and knowledge of a **qualified service technician**. Improper installation may lead to unsafe motorcycle handling, which could result in **serious injury or death**.

Adjusting or modifying your exhaust system may change the handling characteristics of your motorcycle. Under certain conditions, your modified motorcycle may become more sensitive or harder to control. Always take time to **familiarize yourself** with the new handling before riding under demanding conditions.

Always wear **appropriate protective gear**, including a helmet, gloves, and suitable clothing.

Any attempt to **misuse, misapply, modify, or tamper** with any Dr. Jekill & Mr. Hyde product will void the warranty and may result in **serious injury or death**.

CONTACT DETAILS

We've done our best to make this manual as clear and complete as possible. If you still have any questions or need further clarification, feel free to send an email to **sales@jekillandhyde.com** or visit our website at **www.jekillandhyde.com**.

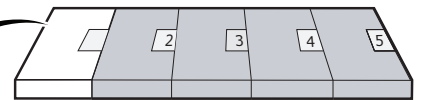


CONTACT US

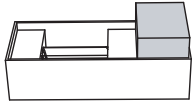
1

Triumph T120

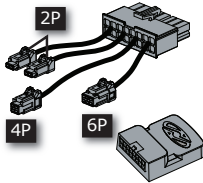
Optional
Center Stand
Bracket



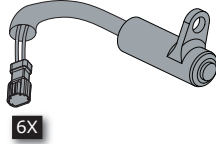
brackets / linkpipes /
clamps and mounting
parts.



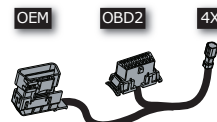
Smartbox
2



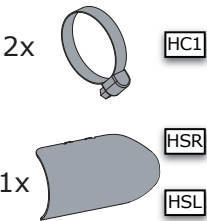
Mode Switch
for
Smartbox



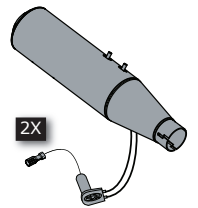
Smartbox
Control Cable



Heatshields

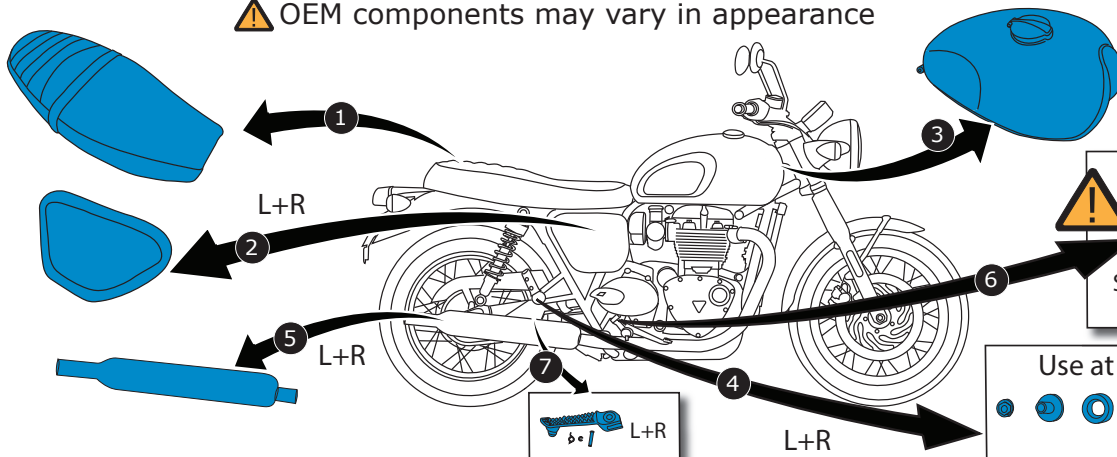


Exhaust/Cable
/Servo System



2

⚠ OEM components may vary in appearance



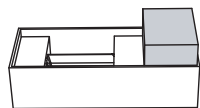
Remove
or Lift tank

If center stand is
fitted:
Start with manual:
DR-101071

Use at step 3 and 4

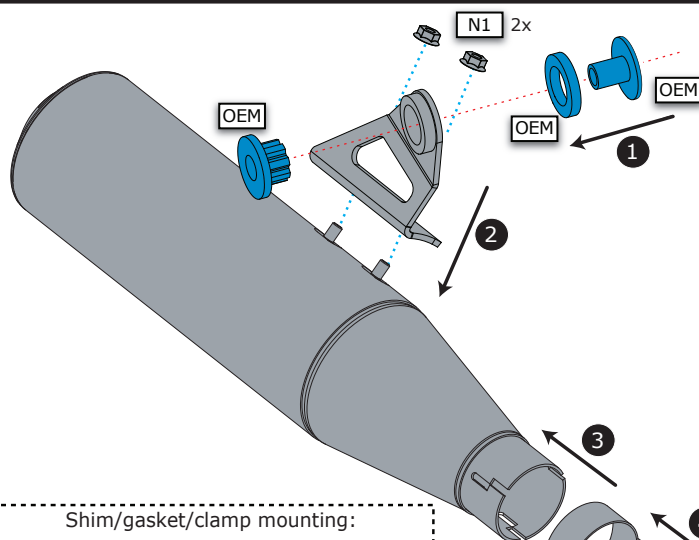


3



Items required

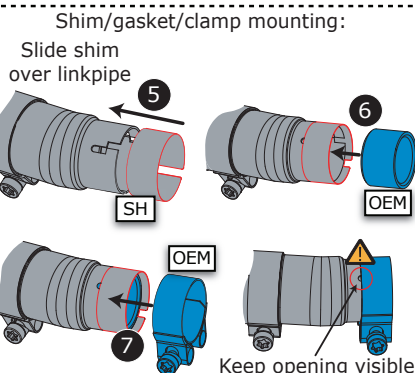
- 2x EC1
- 4x N1
- 1x Br1196 ⚠ RIGHT
- 1x R0042 ⚠ RIGHT
- 1x Br1197 ⚠ LEFT
- 1x L0043 ⚠ LEFT
- 2x OEM
- 2x SH
- 2x OEM
- 2x OEM
- 2x OEM
- 2x OEM
- Triumph part nr.
T2201094



TIGHTEN BOLTS
AND NUTS
DURING STEP 4






L+R



⚠ Product codes are
engraved on product.

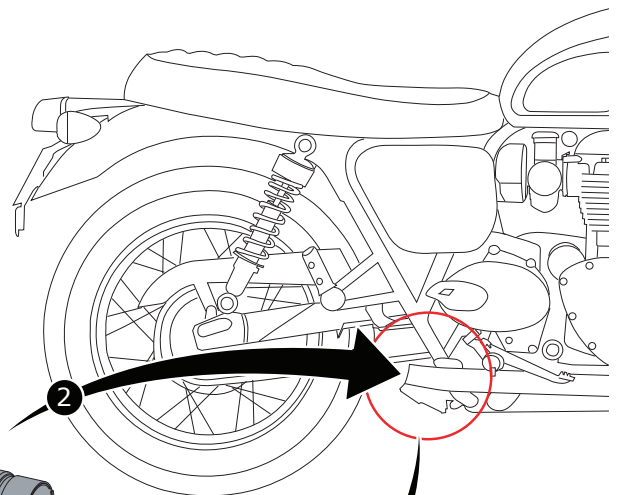
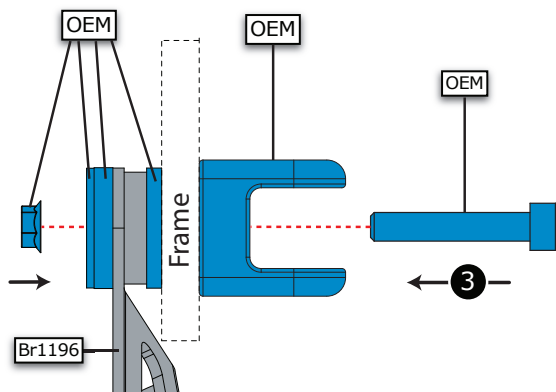
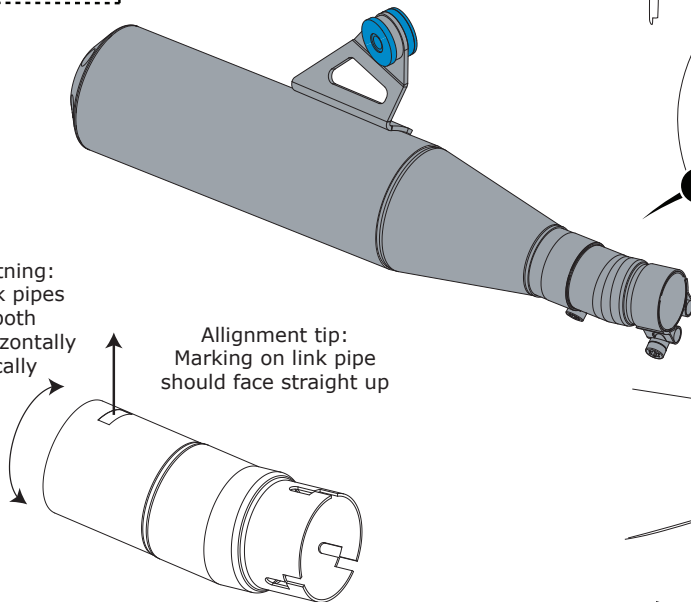
4

Items required

2x		OEM
2x		OEM
2x		OEM

Before tightening:
twist the link pipes
to align both
exhausts horizontally
and vertically






Alignment tip:
Marking on link pipe
should face straight up



1 Loosen OEM
heatshield



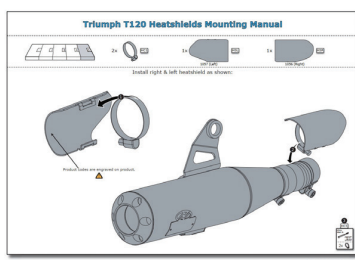
Position exhaust
clamp as shown,
keep clear of center
stand spring!

3	4	5	6	
OEM	N1	EC1	EC2	
25Nm 18lbf ft	11Nm 8lbf ft	25Nm 18lbf ft	25Nm 18lbf ft	L+R
				
1x	2x	1x	1x	

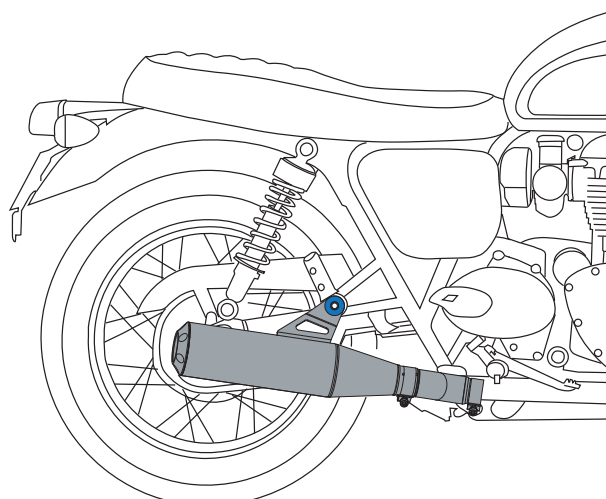
5



Heatshields



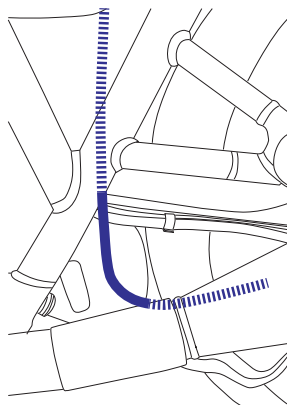
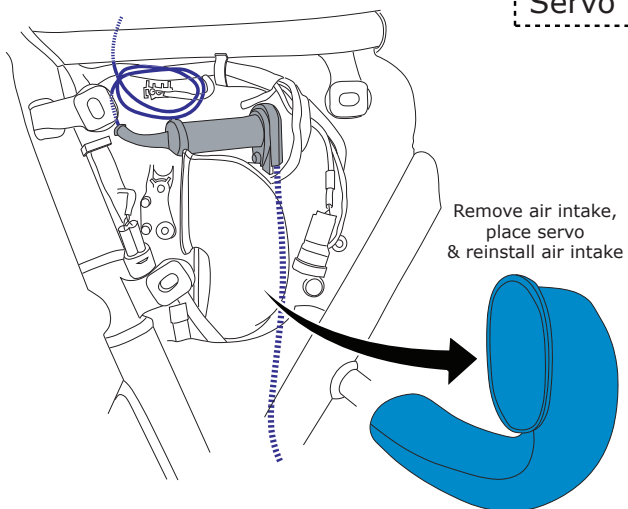
1x Heatshield manual



6

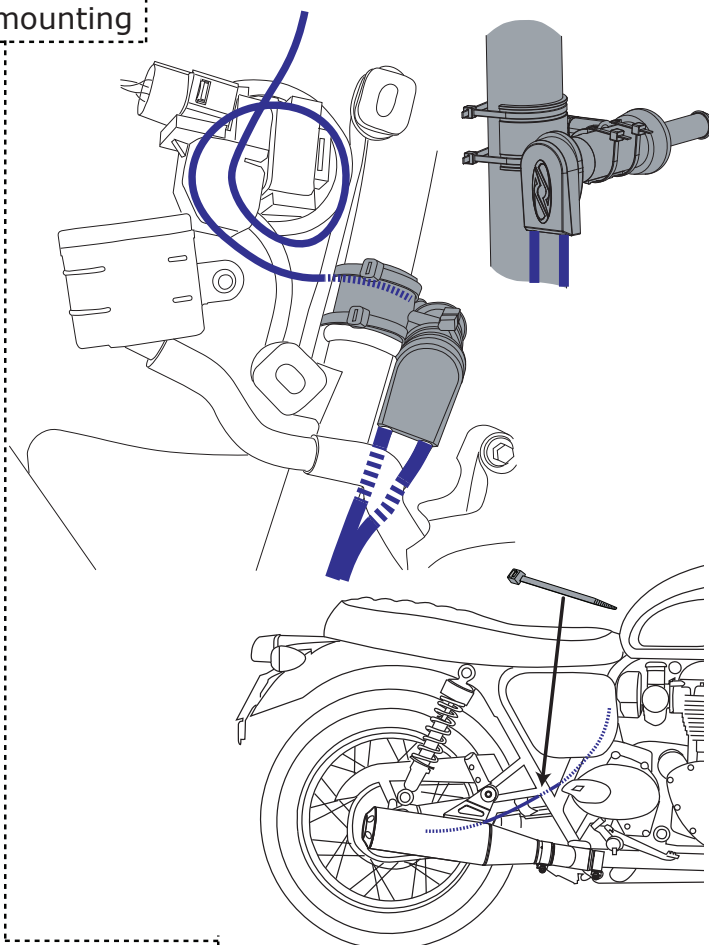


Servo mounting



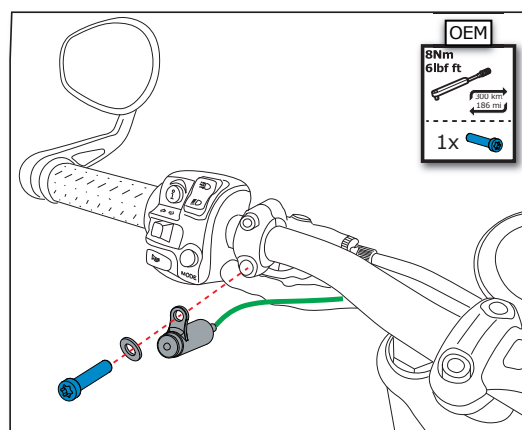
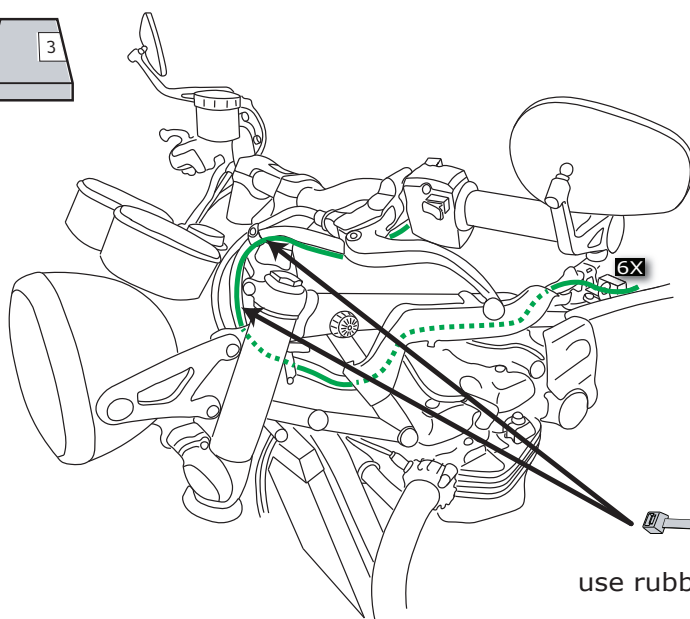
Left hand side

In reality all cables are black



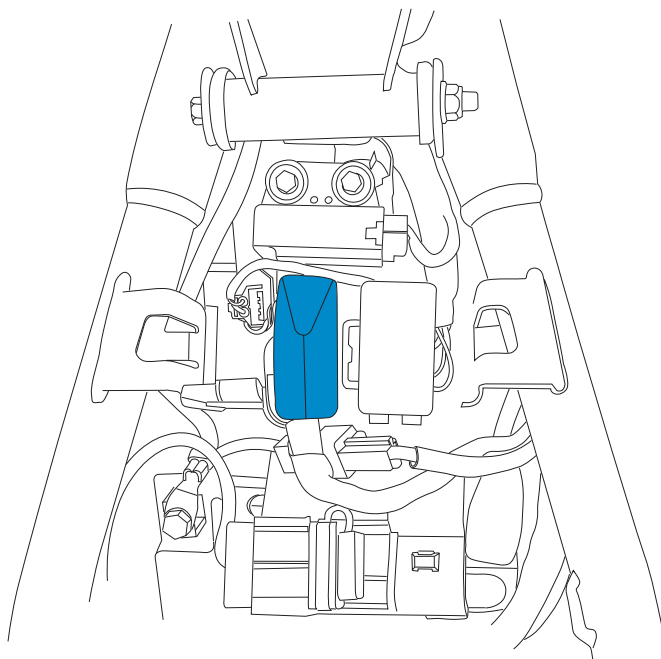
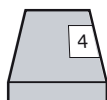
Right hand side

7

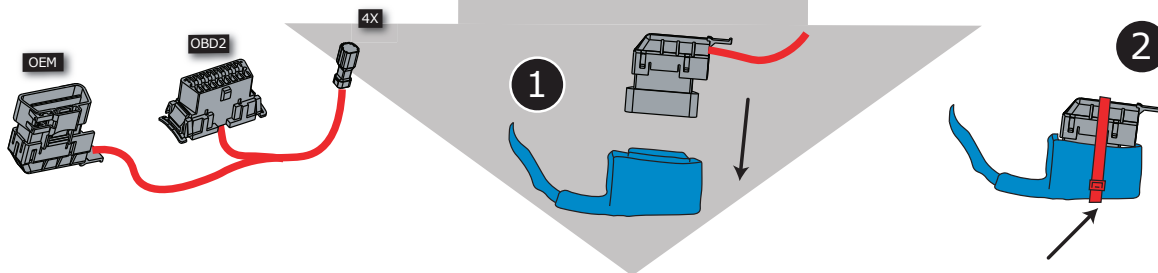


In reality all cables are black

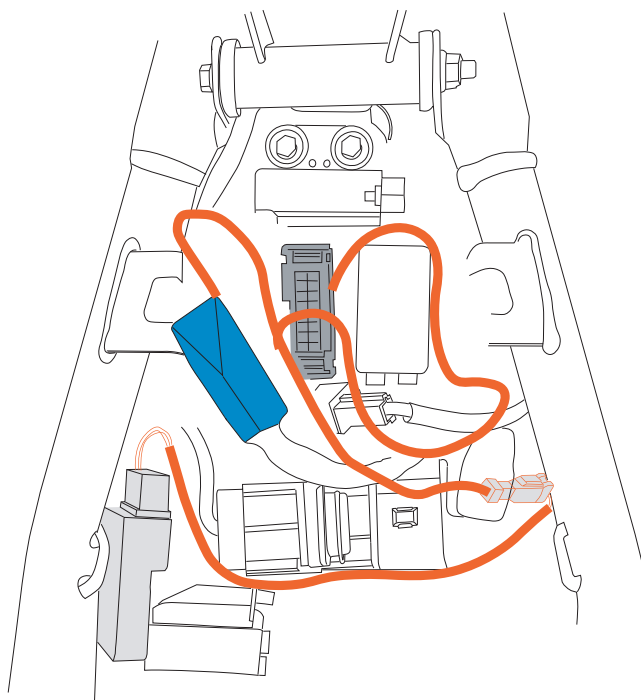
Current situation



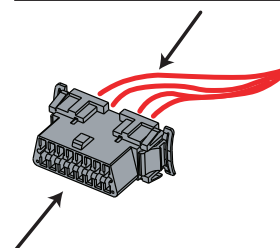
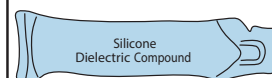
Connect control cable



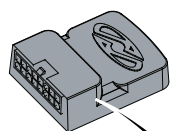
New situation



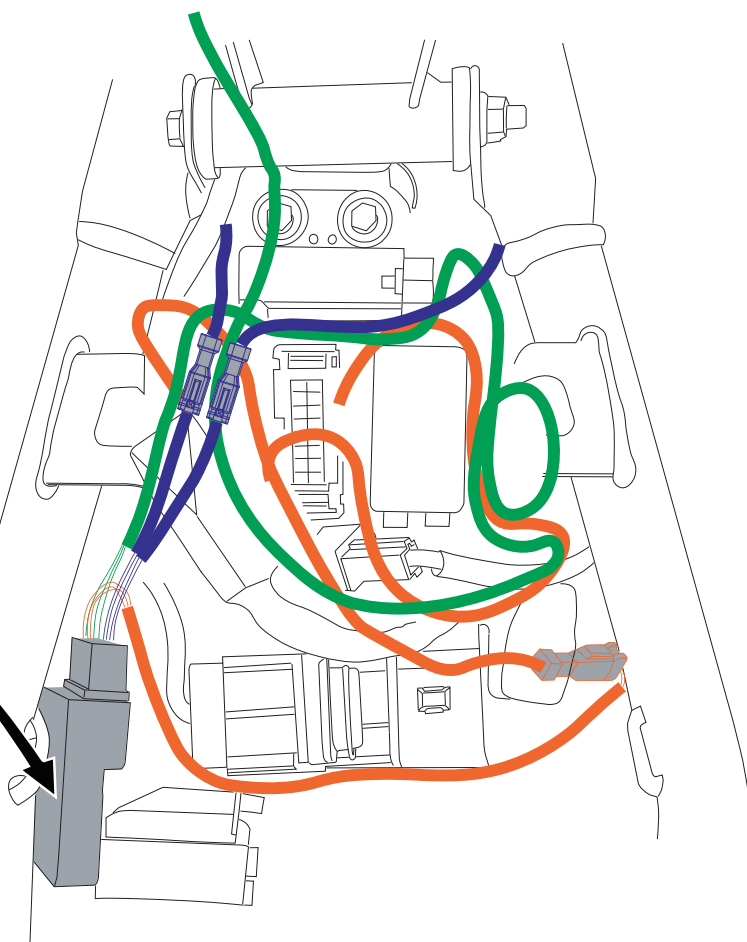
Add Vaseline
to the connector
on both sides



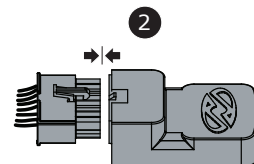
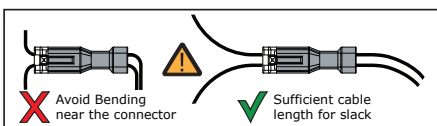
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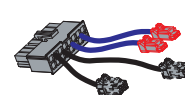
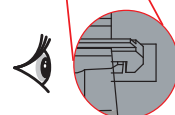
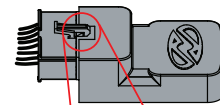
1



Fix cables with cable ties.



2



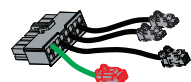
3

2P + 2X



4

4P + 4X

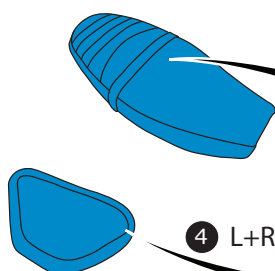


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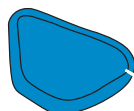
6P + 6X

In reality all cables are black

10

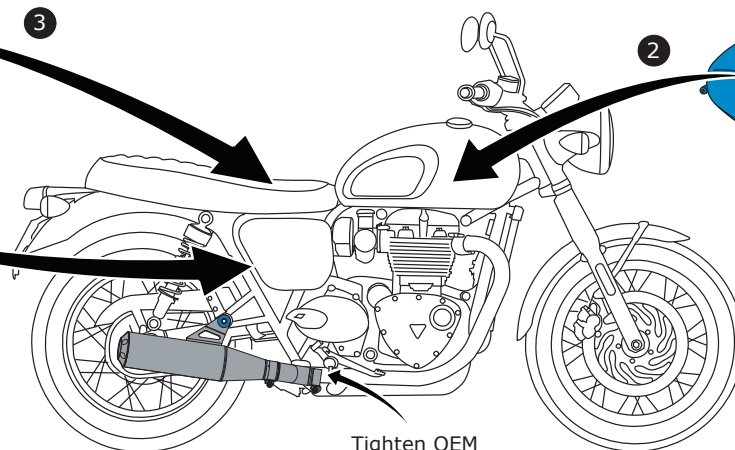


3



4 L+R

2



Tighten OEM
heatshield

1

**Complete
System
Check!**

See final check
manual on next page.

Final Check:

Mechanical:

- Ensure all clamps, bolts, and mounting brackets are installed in the correct locations.
- Verify sufficient clearance between the exhaust and: Swingarm, Rear wheel and tire, Brake lines, Wiring harnesses, Bodywork and footrests.
- Ensure wiring is routed away from heat sources and moving parts.
- Verify that no wires are pinched, stretched, or under tension.
- The lowest point of the exhaust system and all associated components (including servo cables and wiring) must not extend below the motorcycle's lowest structural reference point.

Functional:

- 1) Switch on the ignition (engine off).
- 2) Confirm the exhaust valve performs its open/close movement.
- 3) Start the engine and listen for:
 - Exhaust leaks
 - Rattling or metallic noises.
- 4) Stop the engine immediately if abnormal behavior is detected.

First ride recommendation:

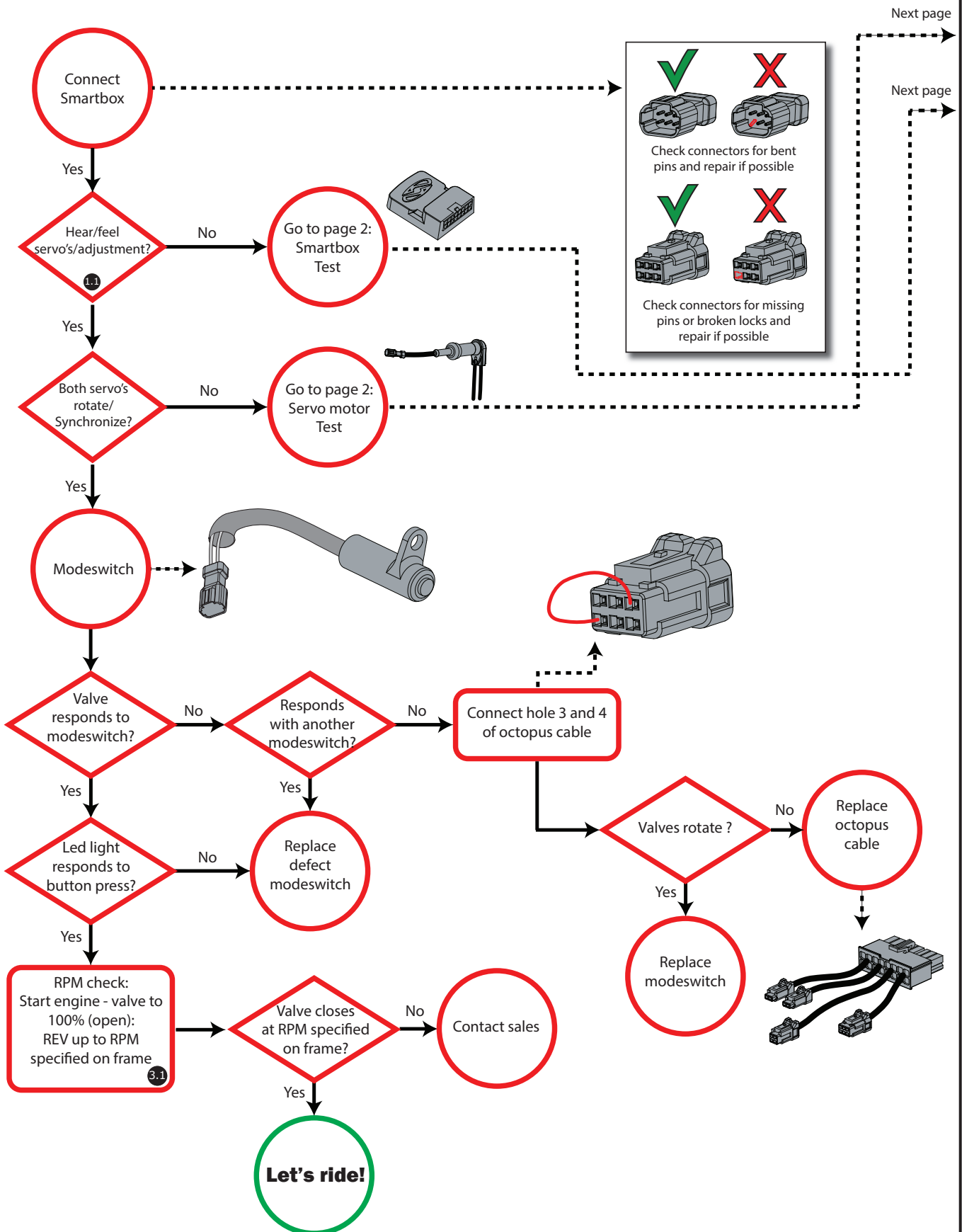
- Perform a short, low-speed test ride.
- Allow the exhaust to fully heat up and cool down.
- Recheck all fasteners after the first heat cycle.
- Inspect again after the first longer ride.

Questions or doubts?

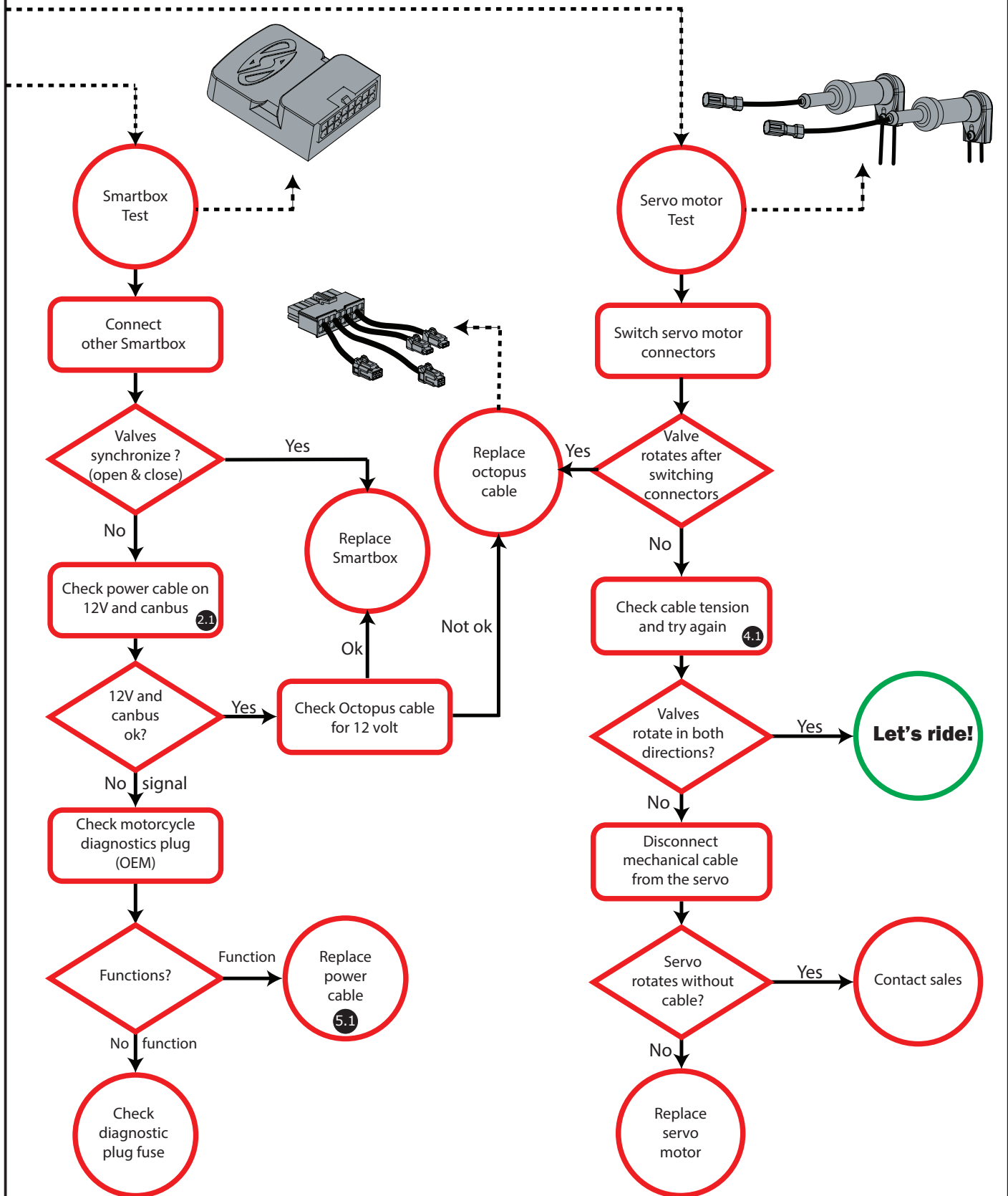
Do not ride the motorcycle.

Contact your dealer or a qualified technician for assistance.

Complete System check + Troubleshooter



Complete System check + Troubleshooter



INSTRUCTIONS

- 1.1 What happens during initialization and when does the system initialize?

When starting the motorcycle the servo's will always initialize to a closed state. This is noticeable (hear/feel), even when the valves are in a closed state.

- 2.1 Check power cable and or canbus

Power voltage: + and - 12V,

CAN bus voltage: CAN-High from 2.5V to 3.5V, CAN-Low from 2.5V to 1.5V at rest are both 2.5V.

- 3.1 RPM specifications

This specific RPM window is mentioned on the sticker on the frame. For this test first start the bike and press the button to open the valve to 100%. Then go to the RPM window and the smartbox should react on this by closing the valve. Sometimes it is hard to keep the bike in the indicated window.

• 4.1 Cable Tension

Check the cable tension to see if it is right:

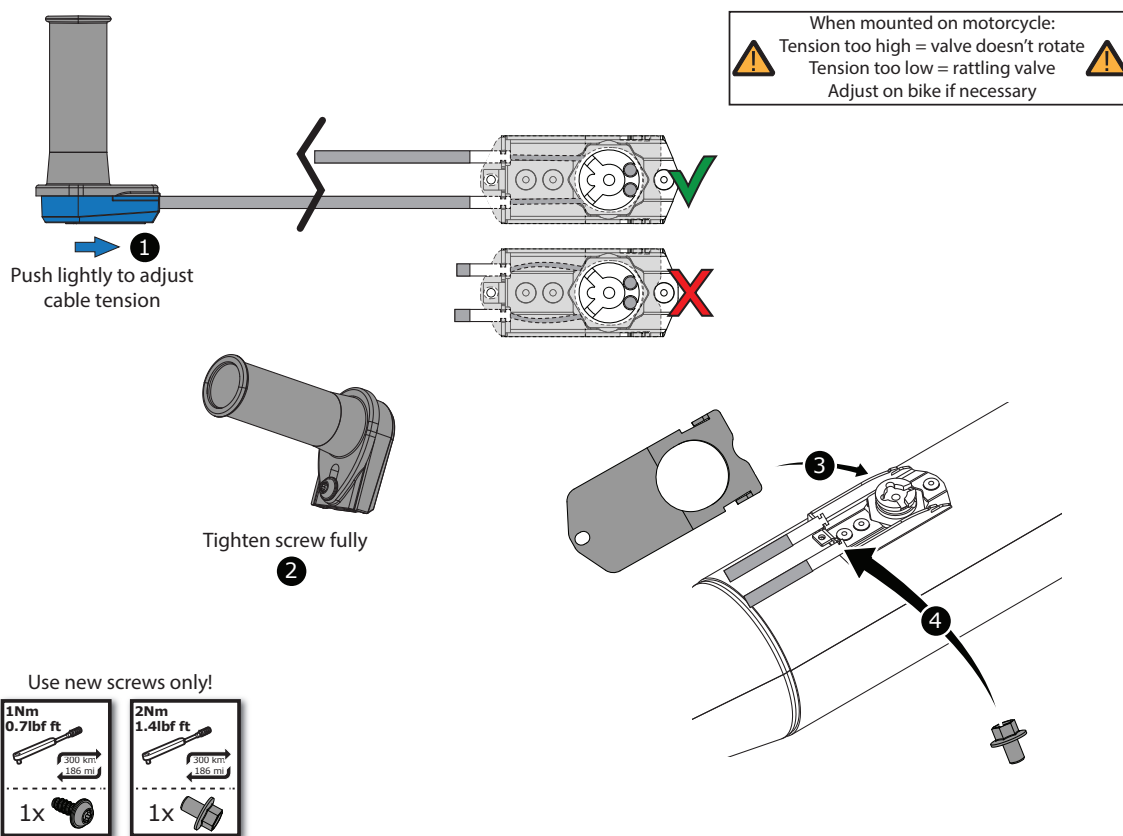
Valve doesn't rotate -> Cable tension too high

Valve makes a rattling Noise -> cable tension too low

Valves
rotational
direction uneven?
Adjust mechanical
cable



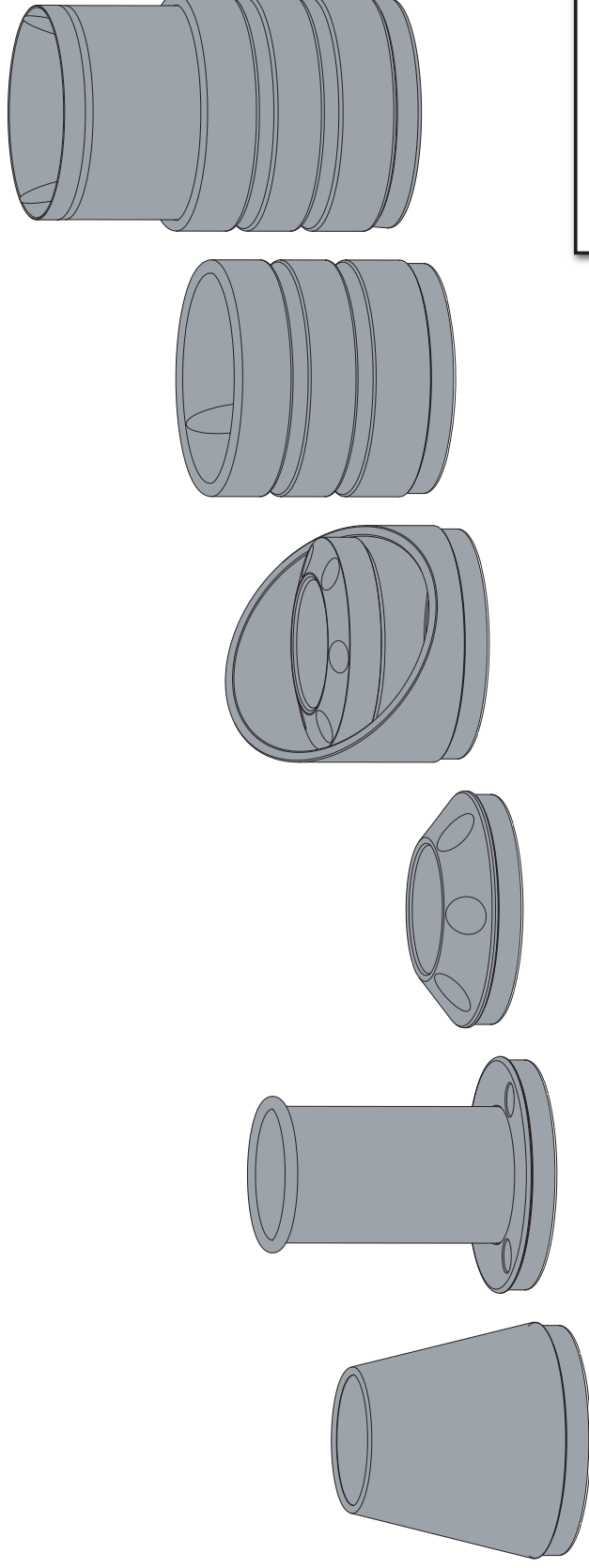
Adjust cable tension and tighten screws



- 5.1 The power cable may vary for different brands and models of motorcycles.

End Cap Torque Tightening Manual

1



Check that the end cap screws are tight and **tighten** them if **necessary**:

- 300 km after the initial installation of the exhaust
- During every service interval

(applicable to all endcap models)

