SUNRISE MEDICAL

STERLING®

000691023.UK

Service Instructions

ELITE2 Mini
ELITE2 XS
ELITE2 Plus

If you have any queries about the use, maintenance or safety of your scooter, please contact your local approved Sunrise Medical service agent. If you do not know of an approved dealer in your area or have any other questions please write or telephone your local Sunrise Medical office (Contact information can be found on the back page of this document or on the website).

Contents

1.0 Introduction

1.1 This user manual

This manual contains the instructions for repairs and general maintenance of the Elite2 Plus, Mini & XS.
Mechanics who do repairs on this scooter must be well trained and familiar with the repair methods and the maintenance of the scooter.

Always make sure that the work is carried out safely, particularly with respect to procedures requiring the scooter to be lifted up.
We advise that you contact our service department before doing repair work on a scooter that has been involved in an accident.
The following specifications are important when ordering parts:

- Model
- Year of manufacture
- Identification number
- Part number
- Name of the part concerned

This information is provided on the identification plate. See 'Identification of the product'.

If you have any queries about the use, maintenance or safety of your scooter, please contact your local approved Sunrise Medical service agent. If you do not know of an approved dealer in your area or have any other questions please write or telephone:

Available documentation

The following technical documentation is available / required to service this scooter:
- User manual
- Service manual

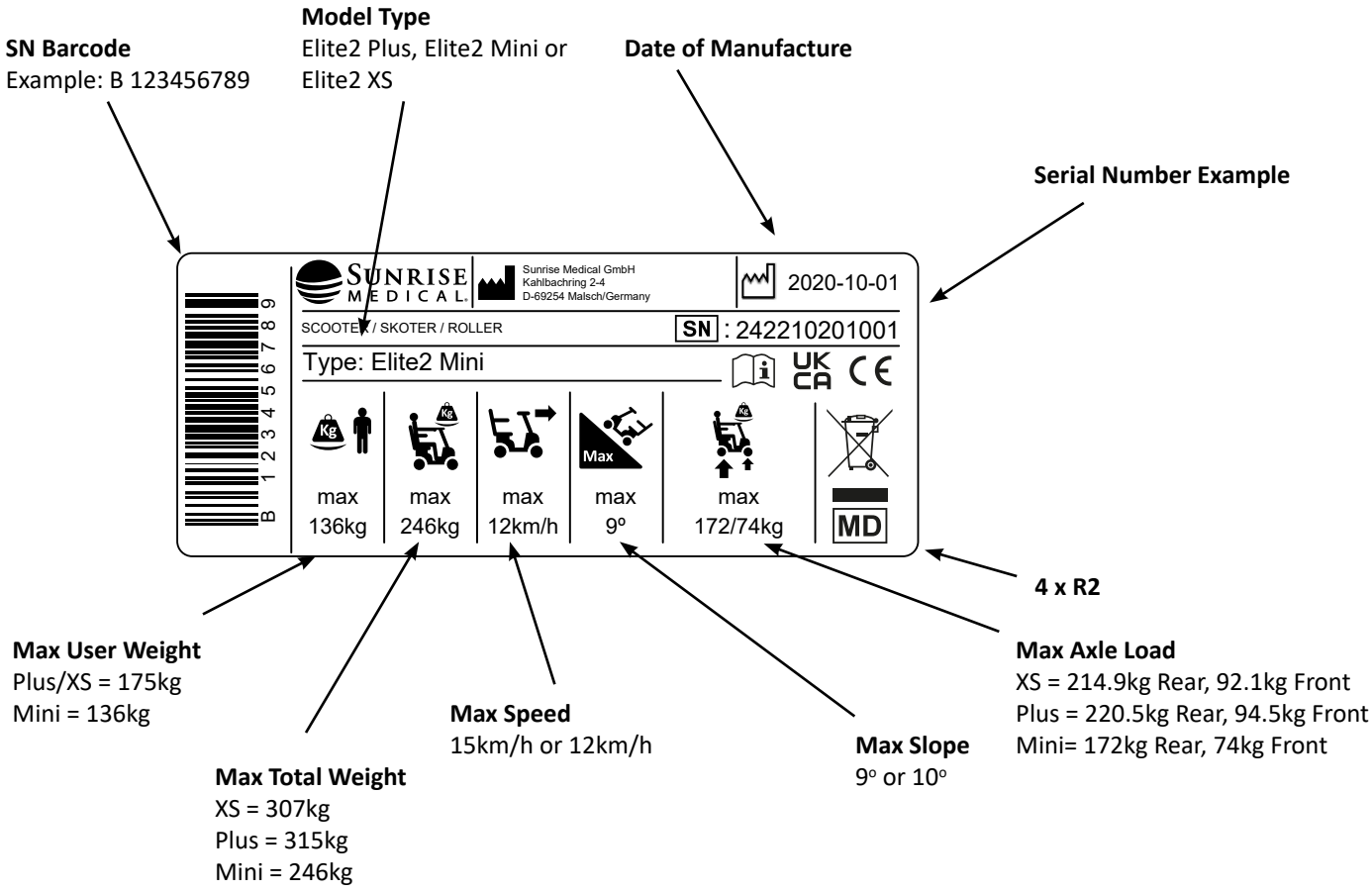
Service and technical support

For information concerning specific settings, maintenance or repair works please contact your supplier. They are always prepared to help you.
Ensure you have at hand:
- Model
- Year of manufacture
- Identification number

This information is provided on the identification plate. See 'Identification of the product'.

1.2 Identification of the product

The identification plate contains the following data:



Serial Number Example (Mini)

242	22	2	0
S.M EDC Code	Year	Month	Build Sequence

Serial Number Example (Plus & XS)

215	22	26	12345678
S.M EDC Code	Year	Week	QAD Assigned

1.3 Symbols used in this manual

Warning symbol

Follow the instructions next to this symbol closely. Not paying careful attention to these instructions could result in physical injury or damage to the scooter or the environment.

Reference symbol

The symbol refers to a separate user manual. This reference will indicate the specific user manual and the section to which is being referred.

2.0 Safety

2.1 Personnel qualification

Service technicians:

- Repairs may only be carried out by trained and authorised service technicians.
- During the execution of their work, they are at all times fully responsible for the fulfilment of locally applicable safety guidelines and standards.
- Temporary employees and persons in training may only carry out repair and replacement work under the supervision of an authorised service technician.

2.2 Cautions and warning statements

⚠ Safety

Safety information is indicated with the warning symbol.

Follow the instructions carefully next to these warning symbols! Not paying careful attention to these instructions could result in physical injury or damage to the scooter or the environment. Where ever possible, safety information is provided in the relevant chapter.

⚠ Temperature

- Avoid physical contact with the scooter's motors at all times. Motors are continuously in motion during use and can reach high temperatures. After use, the motors will cool down slowly. Physical contact could cause burns.

If you do not use the scooter, ensure that it is not exposed to direct sunlight for lengthy periods of time. Certain parts of the scooter, such as the seat, the back and the armrests can become hot if they have been exposed to full sunlight for too long. This may cause burns or allergic reactions to the skin.

⚠ Moving parts

- A scooter has moving and rotating parts. Contact with moving parts may result in serious physical injury or damage to the scooter. Contact with the moving parts of the scooter should be avoided.

⚠ Decals and instructions on the scooter

The signs, symbols and instructions affixed to the scooter comprise part of the safety facilities. They must never be covered or removed. They must remain present and clearly legible throughout the entire lifespan of the scooter.

Replace or repair all illegible or damaged signs, symbols and instructions immediately. Please contact your supplier for assistance.

3.0 Tools, parts and components

3.1 Tools

The tools below are needed for various mechanical settings and maintenance:

Quantity	Description	Size (mm)
1	Screwdriver, flathead	-
1	Screwdriver, crosshead	-
1	Hammer (plastic)	-
10	Ring spanner	6, 7, 8, 10, 12, 13, 15, 17, 19, 22
8	Hex Key	2, 2.5, 3, (2x) 4, (2x) 5, 6
1	Punch	-
3	Socket	13, 17, 19
1	Torx screwdriver	T8
1	Pliers	-

Use only high-quality tools for the adjustment(s) described.
Make sure that the hexagon of the spanner is attached securely to the hexagon of the fastening article. This prevents the 'rotation' of hexagons of fastening articles and spanners that may affect proper adjustment.

4.0 Spare parts

For spare parts please refer to separate manuals.

Please only use genuine spare parts supplied by Sunrise Medical, failure to do so may result in the invalidation of your warranty.

Service technicians:
Repairs may only be carried out by trained and authorised service technicians.
During the execution of their work they are at all times fully responsible for the fulfilment of locally applicable safety guidelines and standards.
Temporary employees and persons in training may only carry out repair and replacement work under the supervision of an authorised service technician.

5.0 Maintenance & cleaning

The scooter's lifespan is dependent on it being well maintained.

Due to its modular design, simplicity and wide range of adjustments, the Sterling Elite2 Plus, Mini & XS is a perfect choice for easy service, refurbishment and recycle requirements.

As a part of our ongoing product improvement initiative, Sunrise Medical reserves the right to change specifications and design without notice. Further, not all features and options offered are compatible with all configurations of the scooter.

All dimensions are approximate and may be subject to change.

For information concerning specific settings, maintenance or repair work, please contact your authorized Sunrise dealer. Always be sure to mention the model, year of manufacture and identification number provided on the identification plate of the scooter when contacting your dealer.

⚠ **CAUTION!**

The scooter should be serviced by your authorized Sunrise dealer once a year or, in the case of intensive use, every six months. For a list of approved authorised dealers in your area please contact Sunrise Medical Service Centre.

The contact details of your local Sunrise medical service centre can be found on the inside front cover of this booklet.

National and International Website addresses are on the back cover.

5.1 Maintenance

⚠ **WARNING!**

- Loose fasteners should be re-tightened according to the installation instructions. Please refer (unless otherwise specified) to the general table below for needed Torques.

GENERAL TORQUE SETTINGS	
DESCRIPTION	**TORQUE VALUE**
M3 POZI PAN	2-3 Nm
M4 POZI PAN	3-4 Nm
M5 SKT HD CAP	4-5 Nm
M5 POZI PAN	4-5 Nm
M6 HEX HD	9-10 Nm
M6 BUTT HD	9-10 Nm
M6 SKT HD CAP	9-10 Nm
M8 HEX HD	15-20 Nm
M8 SKT HD CAP	15-20 Nm
M8 SKT BUTT HD	15-20 Nm
M10 HEX HD	20-25 Nm
M10 SKT BTT HD	20-25 Nm
SPECIFIC TORQUE SETTINGS	
Front Wheel Axle Bolt	32Nm
Rear Wheel Hub Studs	25Nm
Seat Stem Height Bolts	20 Nm
Rear Wheel Centre Mounting Nuts	55 Nm
Front and Rear Frame Connection	120 Nm (PLUS & XS) 20 Nm (MINI only)

Note: It will be necessary to use a torque wrench.

- If a broken or loose component is found, discontinue use immediately and contact your authorised Sunrise Medical supplier for replacement.
- Check all Velcro fastening straps for correct adhesion when pressed together.
- Ensure that any contamination, such as fluff, hair, etc is removed from the Velcro straps. Such contamination may affect adhesion.

⚠ **WARNING!**

- If you are in any doubt about the performance requirements of your scooter contact your Sunrise Medical authorised dealer.
- After performing any maintenance or repairs on the scooter you must make sure that it is functioning correctly before it is used.
- All fasteners must be replaced like for like using the correct length, tensile strength and materials.
- When replacing self-locking nuts, or nuts/studs secured with a thread locking solution, ensure that a suitable thread locking solution is reapplied to the fastener.

⚠ **WARNING!**

- Please do not use Nyloc nuts more than once, please dispose after use and replace with a new nut.

5.2 Cleaning

Ensure the controller is switched off before cleaning.

The scooter should be wiped over once per week with a slightly damp, (not wet), cloth and any fluff or dust that has accumulated around the motors should be blown or dusted away.

Make sure that you dry all parts of your scooter if it becomes wet or damp after cleaning or if it is used in a wet or damp atmosphere.

It is important that should the scooter be used by more than one person it is cleaned thoroughly to ensure there is no cross infection.

You should use a proprietary disinfectant for this task. Please pay attention to the manufacturer`s instructions of the disinfectant you are using.

Inspect the upholstery/seating for tears, dents, wearing or slackening of upholstery particularly near to metal as this could result in poor posture or lower levels of comfort and pressure relief.

5.2.1 Cleaning seating:

All parts/accessories such as crutch holders should be cleaned with a damp cloth.

All lateral supports, headrest, armrests, lap belts should be cleaned with a damp cloth.

⚠ CAUTION!

Do not use a hose or a pressure or steam washer to clean your scooter.

5.2.2 Cleaning control system:

Clean the control system and the keypad with a cloth dampened with diluted detergent. Be careful not to use excessive water or force when cleaning the control keypad.

⚠ CAUTION!

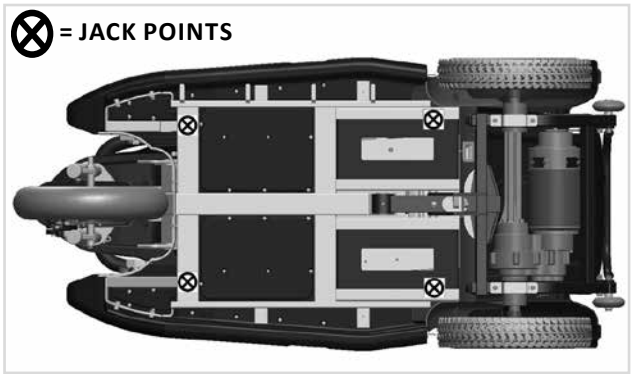
Never use abrasive or spirit based inflammable cleaners.

6.0 Checking the tyres

Check the tyres at least once a week for signs of wear and damage.

Check for:

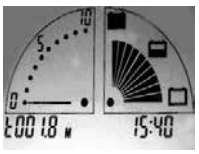
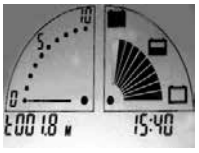
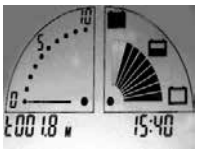
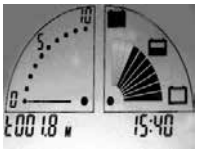
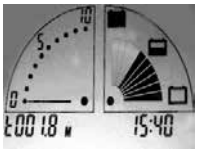
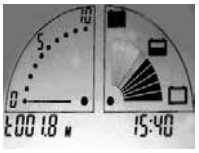
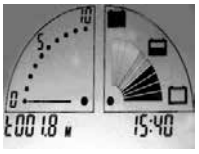
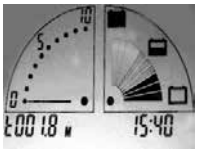
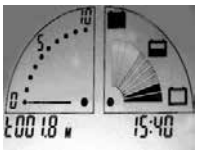
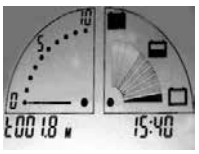
- Excessive wear on the tyre tread.
- Uneven wear over the surface of the tyre.
- Cuts or holes in the tyre tread.
- Cuts or holes in the tyre walls.
- Sharp objects stuck in the tyre.
- Tyre pressures.
- Tyre studs/nuts are tight.
- Damage to wheel rims.
- Foreign materials/contaminants.



⚠ WARNING!

- Put the scooter in drive, switch the scooter off and remove the key before carrying out the checks.
- Never use the scooter if the tyres are found to be defective after carrying out the above checks.
- Wear protective gloves if you have to physically touch the tyres or undercarriage and afterwards wash you hands thoroughly.

7.0 Fault Codes And Possible Causes

ELITE² PLUS	ELITE² XS - RS	
		An excessive voltage has been applied to the Power Module. Check the battery connections. Check the correct battery charger is being used and that it is functioning properly.
		The parking brake has a bad connection. Check all connections between Motor, Brake and Power Module.
		A general control system fault has been detected. Check that all plugs and sockets are connected. If the scooter has been driven in extreme weather, gone through a deep puddle or has been jet washed, place it in a dry warm environment to dry out.
		A throttle fault has been detected. Ensure that the throttle levers are at the neutral or rest position.
		The scooter is being prevented from driving by the control system because of an inhibit signal. Check that the charger plug is disconnected from the charge socket.
		This is not used.
		The freewheel lever/switch is activated. Switch the scooter off, put the scooter back into “DRIVE” mode and switch the scooter back on again.
		The Motor has a short circuit to a battery connection. Contact your servicing agent.
		There is a bad connection to the Motor. Check all connections to the Motor and Power Module. Check Motor brushes.
		The battery needs charging or there is a bad connection to the battery. Charge the batteries. Check the connections to the batteries are tight. Check the battery charger is switched on and working. Batteries need changing.

8.0 Maintenance Schedule

After performing any maintenance or repairs on the scooter you must make sure that it is functioning correctly before it is used.

- Visually inspect the scooter to make sure its parts are correctly positioned and attached to the scooter and all fasteners are sufficiently tightened.
- Make sure that the seat is correctly fitted and adjusted.
- Switch on the scooter – Does the battery gauge flash with the ! symbol or error show on the LCD? This signifies that there is a fault in the electronic system.
- Refer to section 8.0 for basic troubleshooting.
- Perform the parking brake check.
- Operate all of the electric options, including lights and indicators to make sure that they work correctly.
- Drive the scooter to make sure the scooter performs as it did before.

⚠WARNING!

- If you are in any doubt about the performance requirements of your scooter contact your Sunrise Medical authorised dealer.
- Only carry out the maintenance tasks listed below together with any general cleaning.
- Do not attempt any task you are not sure of.

RE-USE

Due to its construction, high level of flexibility and the modular construction system make the Elite2 ideal for re-use. Individual accessories and options can be fitted and removed very quickly and are a range of possibilities so that individual adjustments can be made to suit the end user.

Maintenance and Inspection Schedule	Daily	Weekly	Quarterly	Six month	Annually
Check battery level indicator and charge if necessary.	✵				
Check the control levers on the tiller are not bent or damaged.	✵				
Ensure all removable parts are securely fastened.	✵				
Check lap strap for wear and make sure the buckle is operational.	✵				
Check the Parking brake clicks on and off.		✵			
Check tyres and inflate if required.		✵			
Ensure any visible nuts and bolts are tight.		✵			
Ensure all cables and connectors are sound and are tidy and out of the way.		✵			
Clean the scooter and upholstery regularly.		✵			
Battery terminal inspection – Remove any corrosion and apply Vaseline.			✵		
Check upholstery, seating, headrests, arm pads for wear.				✵	
Complete inspection, safety check and service should be made by a Sunrise Medical authorised dealer.					✵

8.1 Preventative Maintenance

- The key components of the Elite2 scooter have been designed, manufactured, specified and tested in a way to maximise their lifespan. As with all components, some will fail sooner than expected but Sunrise Medical has undertaken 1000's of testing hours to minimise the chance of this occurring.
- The lifespan of components prior to 2021 has been very good by industry standards. Key components have been improved and therefore the life expectancy of these components post 2021 is even better.
- It is important to note that the life expectancy of pre 2020 components is at least 4 years. After 8 years of use between 79% and 99.4% of components did not fail.
- The following information may be used to predict planned maintenance, with the aim of avoiding un-planned repairs.

Component	Pre 2020				Post January 2021		
	Year 1 Service	Year 2 Service	Year 4 Service	Year 6 Service	Year 2 Service	Year 4 Service	Year 6 Service
Charger plug/loom	X	X	X	X	X	X	X
Speed sensor/sensor loom	X	X	X	X	X	X	X
S-Drive			X	X			X
XS fork		X	X	X		X	X
PLUS fork		X	X	X		X	X
Tiller gas strut				X		X	X
Wig-Wag potentiometer		X	X	X		X	X
PLUS front wheel bearings		X	X	X		X	X
Key switch	X	X	X	X	X	X	X
PLUS tiller		X	X	X		X	X
Front light		X	X	X		X	X
Chassis				X			X
Motor/transaxle				X			X
Suspension		X	X	X		X	X
Wheel bearings				X		X	X
Panels	When damaged				When damaged		
Tyres	Wear item				Wear item		

9.0 Specification Sheets (EN 12184 & ISO 7176-15)

Sunrise Medical Logistics BV
Groningenhaven 18-20, 3433
PE, Nieuwegein, Netherlands
T: +31 (0)30 - 60 82 182 Customer Service
F: +31 (0)30 - 60 55 880
www.sunrisemedical.com

Operating temp: -25degC to 50DegC
Storage temp: -40degC to 65degC
Moisture resistance: IPX4
No restrictions on humidity and air pressure

Model	Sterling Elite2 Mini		
Max. user weight	136kg	300lb	
EN12184 class:	B	-	

Description	Metric system values		Imperial system values & alternative		Comments
ISO 7176-15	**MIN.**	**MAX.**	**MIN.**	**MAX.**	
Total length	1270mm	1341mm	50.0”	52.8”	Standard configuration, without basket and with basket
Total width	610mm		24.0”		
Total weight	110kg		242.5lb		Standard configuration with batteries
Transport weight of the heaviest part					
60Ah Battery	19.8kg		43.6lb		
Seat with slide	19kg	19.7kg	41.9lb	43.4lb	Without headrest / with headrest
Dynamic stability (rated slope)					136kg User
with 90A controller	9˚				
with 140A controller	9˚				
Min. braking distance at maximum speed	-	2390mm	-	94.0”	
Static stability	15˚/15˚/15˚				Downwards / Upwards / Sideways
Range of action (ISO 7176-15)	25km	38.8km	15.5mi	24.1mi	NB: The following aspects have a negative influence on the range of action: Obstacles, rugged terrain, driving on slopes, exposure to temperatures below freezing point and frequent use of powered seat options.
Climbing capability for obstacles	72mm		2.8”		
Max speed forward	10 kph	12 kph	6.2mph	7.4mph	
Turning radius	1230 mm		48.4”		
Turning space / reversing width	1500 mm		59.0”		
Ground clearance	50 mm		2.0”		
Tyre Pressure	1.8 bar	2.4 bar	26 PSI	35 PSI	
Maximum battery dimensions (l x b x h)	197 x 167 x 155	255 x 170 x 175	7.7” x 6.6” x 6.1”	10” x 6.7” x 6.9”	
Battery capacity	40 Ah / 60 Ah		-		
Maximum permissible charging voltage	-	24V	-	-	
Maximum charging current	-	10A	-	-	
Effective seat depth	440 mm		17.3”		
Effective seat width	470 mm		18.5”		
Seat to floor height	432 mm	507 mm	17.0”	20.0”	To scooter floor
Back rest angle	-45˚	+45˚	-	-	
Back rest height	500 mm		19.7”		
Seat adjustment	-68mm	+68mm	-2.7”	+2.7”	Front - rear, from centre position
Armrest height	260 mm		10.2”		To seat surface at 90˚

Model	Sterling Elite2 XS		
Max. user weight	175kg	385.8lb	
EN12184 class:	C	-	

Description	Metric system values		Imperial system values & alternative		Comments
ISO 7176-15	**MIN.**	**MAX.**	**MIN.**	**MAX.**	**COMMENTS**
Total length	1390mm		54.7”		Standard configuration
Total width	670mm		26.4”		
Total weight	132 kg		291lb		Standard configuration with batteries
Transport weight of the heaviest part 72Ah Battery Seat with slide	 23.0Kg 22.0kg		 50.7lb 48.5lb		
Dynamic stability (rated slope)	10˚		-		175 kg User
Min. braking distance at maximum speed	-	4500mm	-	177.2”	
Static stability	15˚/15˚/15˚		-		Downwards / Upwards / Sideways
Range of action (ISO 7176-15)	44km		27.3mi		NB: The following aspects have a negative influence on the range of action: Obstacles, rugged terrain, driving on slopes, exposure to temperatures below freezing point and frequent use of powered seat options.
Climbing capability for obstacles	100mm		3.9”		
Max speed forward	10 kph	15 kph	6.2mph	9.3mph	
Turning radius	1400 mm		55.1”		
Turning space / reversing width	1850 mm		72.8”		
Ground clearance	110 mm		4.3”		
Tyre Pressure	1.8 bar	2.4 bar	26 PSI	35 PSI	
Maximum battery dimensions (l x b x h)	255 x 170 x 175		10” x 6.7” x 6.9”		
Battery capacity	60 Ah / 72 Ah		-		
Maximum permissible charging voltage	-	24V			
Maximum charging current	-	10A			
Effective seat depth	460 mm		18.1”		
Effective seat width	475 mm		18.7”		
Seat to floor height	440 mm	515 mm	17.3”	20.4”	To scooter floor
Back rest angle	-45˚	+45˚	-	-	
Back rest height	510 mm		20.0”		
Seat adjustment	-80mm	+80 mm	-3.1”	+3.1”	Front - rear, from centre position
Armrest height	260 mm		10.2”		To seat surface at 90˚

Model	Sterling Elite2 Plus		
Max. user weight	175kg	385.8lb	
EN12184 class:	C	-	

Description	Metric system values		Imperial system values & alternative		Comments
ISO 7176-15	**MIN.**	**MAX.**	**MIN.**	**MAX.**	**COMMENTS**
Total length	1390mm		54.7”		Standard configuration
Total width	650mm		25.6”		
Total weight	140 kg		308.6lb		Standard configuration with batteries
Transport weight of the heaviest part 72Ah Battery Seat with slide	 23.0Kg 22.0kg		 50.7lb 48.5lb		
Dynamic stability (rated slope)	10˚		-		175 kg User
Min. braking distance at maximum speed	-	4500mm	-	177.2”	
Static stability	15˚/15˚/15˚		-		Downwards / Upwards / Sideways
Range of action (ISO 7176-15)	44km		27.3mi		NB: The following aspects have a negative influence on the range of action: Obstacles, rugged terrain, driving on slopes, exposure to temperatures below freezing point and frequent use of powered seat options.
Climbing capability for obstacles	100mm		3.9”		
Max speed forward	10 kph	15 kph	6.2mph	9.3mph	
Turning radius	1400 mm		55.1”		
Turning space / reversing width	1850 mm		72.8”		
Ground clearance	135 mm		5.3”		
Tyre Pressure	1.8 bar	2.4 bar	26 PSI	35 PSI	
Maximum battery dimensions (l x b x h)	255 x 170 x 175		10” x 6.7” x 6.9”		
Battery capacity	60 Ah / 72 Ah		-		
Maximum permissible charging voltage	-	24V			
Maximum charging current	-	10A			
Effective seat depth	460 mm		18.1”		
Effective seat width	475 mm		18.7”		
Seat to floor height	440 mm	515 mm	17.3”	20.4”	To scooter floor
Back rest angle	-45˚	+45˚	-	-	
Back rest height	510 mm		20.0”		
Seat adjustment	-80mm	+80 mm	-3.1”	+3.1”	Front - rear, from centre position
Armrest height	260 mm		10.2”		To seat surface at 90˚

10.0 Service Instructions

10.1 Assembly, replacement and adjustment instructions

Assembly, replacement and adjustment instructions

The paragraphs 6.2 cover illustrated assembly and replacement instructions.

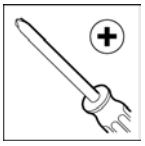
Every separate visual instruction is prefaced with:
- Preparation remarks
- Instructions
- Tools used
- Notice (if applicable): extra notes covering information you need when executing the specific task

10.2 ELITE 2 PLUS, MINI & XS Assembly, replacement and adjustment instructions

Removal of basket

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the basket and fixings from the front of the scooter.
- Rebuild the scooter in reverse order once completed.

Fig. 10.2.1

1. Slide up and remove basket (A)

Fig. 10.2.2

2. Unscrew and remove the basket bracket (C) by removing 2 (B) screws

NOTE: Please hand tighten upon reassembly

Fig. 10.2.1

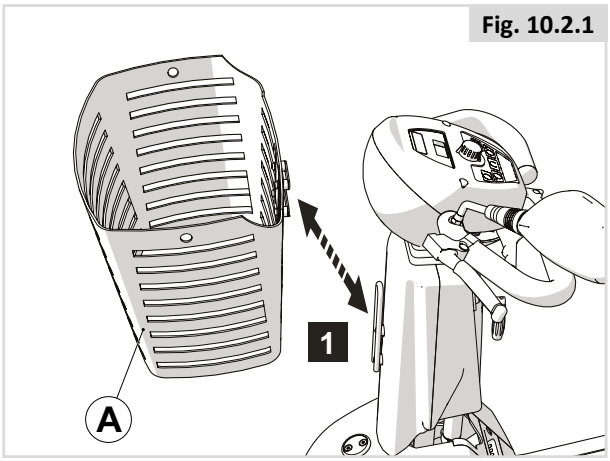
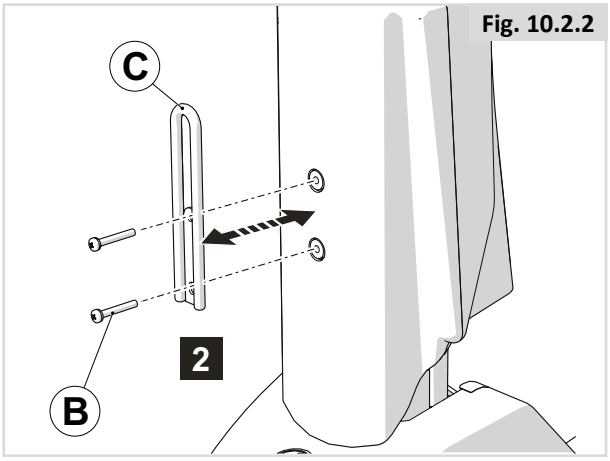


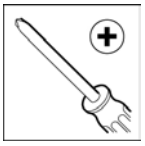
Fig. 10.2.2



Removal of tiller moulding

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the front and rear tiller moulding from the scooter.
- Rebuild the scooter in reverse order once completed.

Fig. 10.2.3

1. Remove 6 (A) screws from the rear tiller moulding

NOTE: Please hand tighten upon reassembly

Fig. 10.2.4

2. Unscrew nut and remove gas strut handle (B)

Fig. 10.2.5

3. Remove front tiller moulding (C)

Fig. 10.2.3

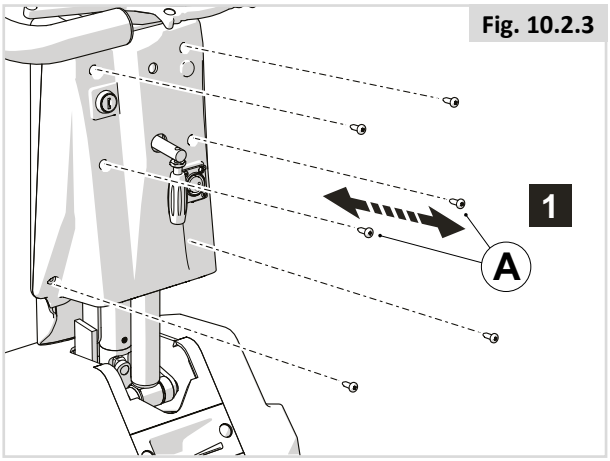


Fig. 10.2.4

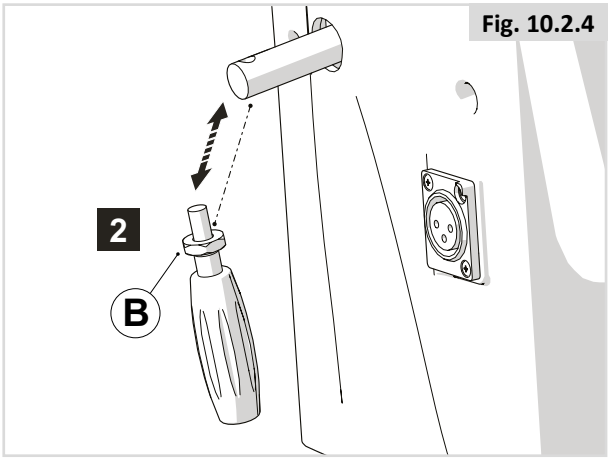


Fig. 10.2.5

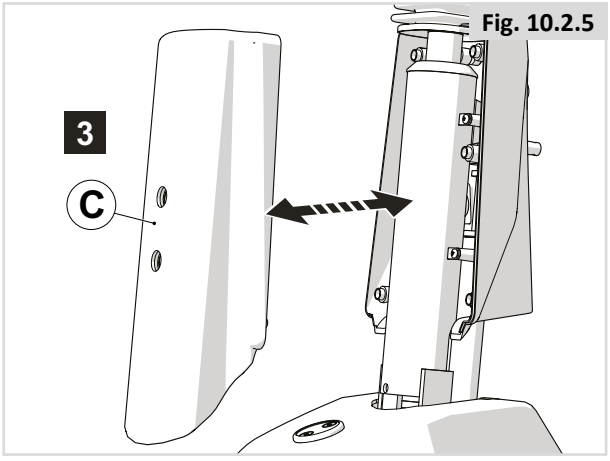


Fig. 10.2.6

4. Unscrew and remove 4 (D) screws from inside the front moulding

NOTE: Please hand tighten upon reassembly

Fig. 10.2.7

5. Remove rear tiller moulding (E)

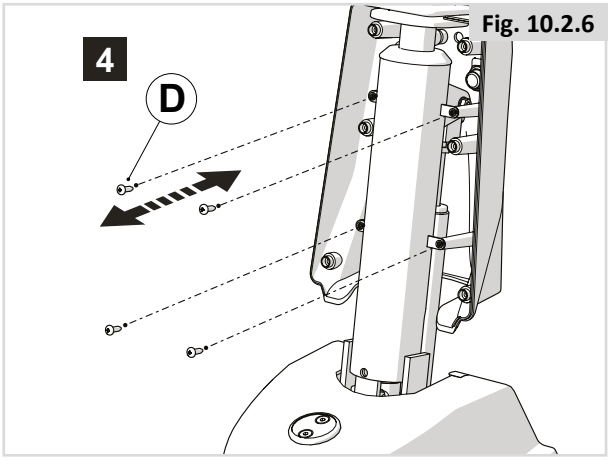


Fig. 10.2.6

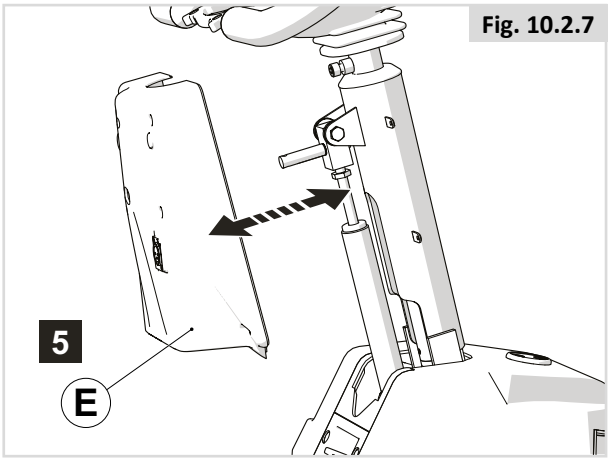


Fig. 10.2.7

Removal of key switch

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the key switch.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the basket, remove front and rear tiller mouldings and disconnect key switch and power.

Tools used

Fig. 10.2.8

1. Unscrew and remove fixing nut (A) from key switch

Fig. 10.2.9

2. Remove key switch (B) and wiring through the front of the moulding

Fig. 10.2.10 (alternate key switch)

2. Remove key switch (B) and wiring through the front of the moulding

Fig. 10.2.8

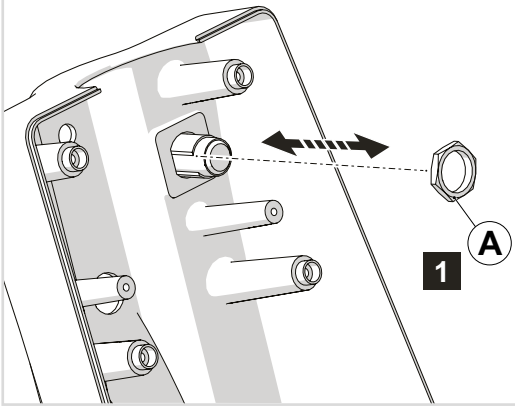


Fig. 10.2.9

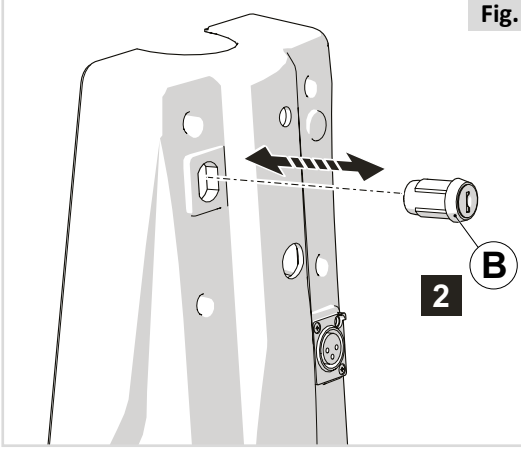
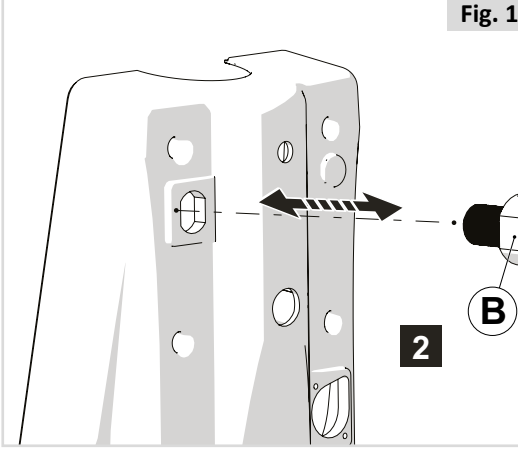


Fig. 10.2.10



Removal of charger plug

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the charger plug.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the basket, remove front and rear tiller mouldings and disconnect the charger plug from the main loom.

Tools used

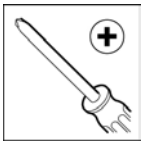


Fig. 10.2.11

1. Unscrew and remove 2 (A) screws from the charger plug

NOTE: Please hand tighten upon reassembly

Fig. 10.2.12

2. Remove charger plug (B) through the front of the moulding

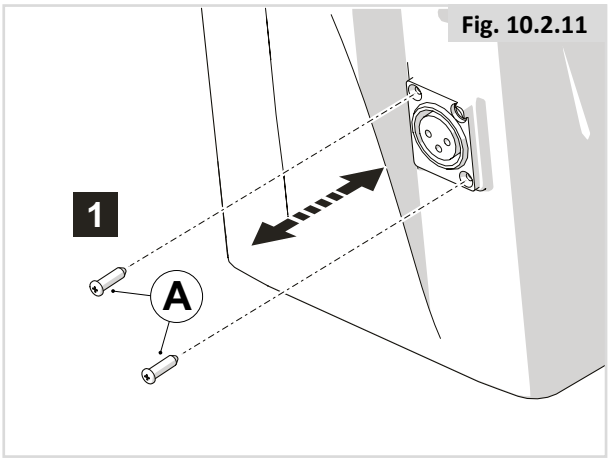


Fig. 10.2.11

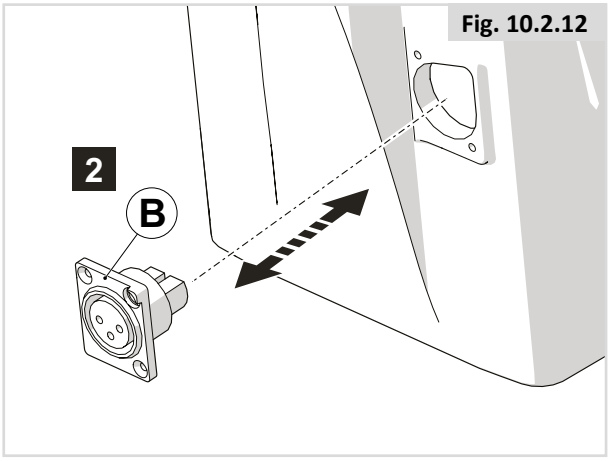
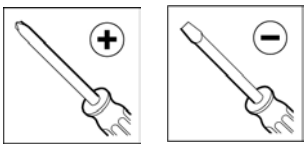


Fig. 10.2.12

Removal of nose cone moulding

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the nose cone moulding.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the basket and remove front and rear tiller mouldings.

Fig. 10.2.13

1. Using a flathead screwdriver, lever and remove Sterling badge located on the nose cone moulding. Then, unscrew and remove 2 (A) screws located undeneath the badge

NOTE: Please hand tighten upon reassembly

Fig. 10.2.14

2. Unscrew and remove 6 (B) screws from the rear of the nose cone moulding

NOTE: Please hand tighten upon reassembly

Fig. 10.2.15

3. Remove nose cone centre mouldings (C) + (D)

Fig. 10.2.13

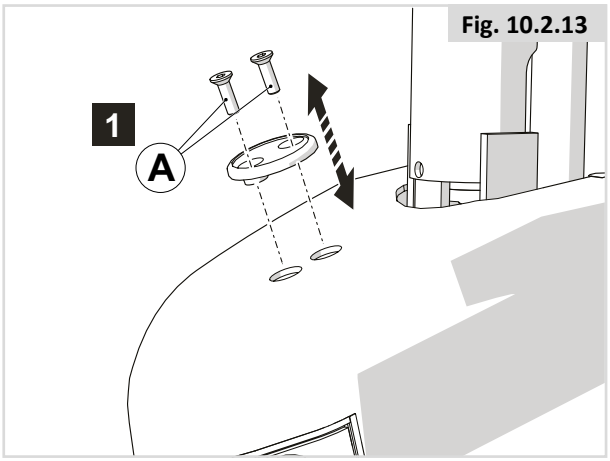


Fig. 10.2.14

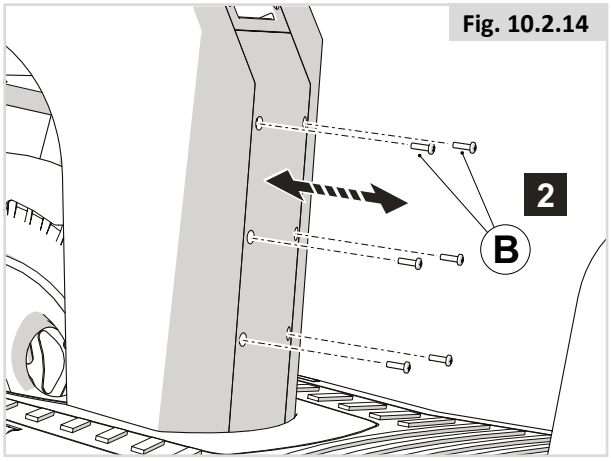


Fig. 10.2.15

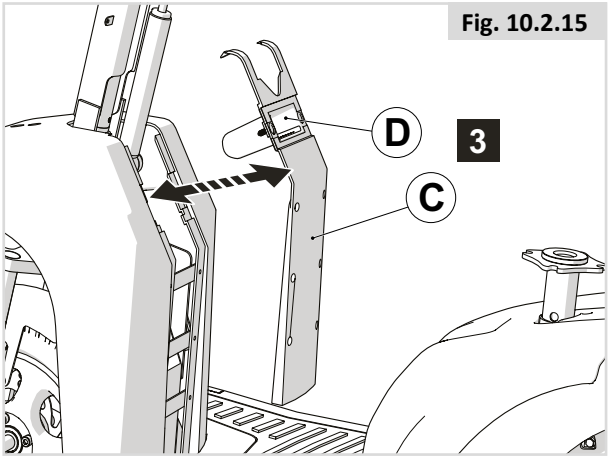


Fig. 6.2.16

4. Lift off and remove front nose cone moulding (E)

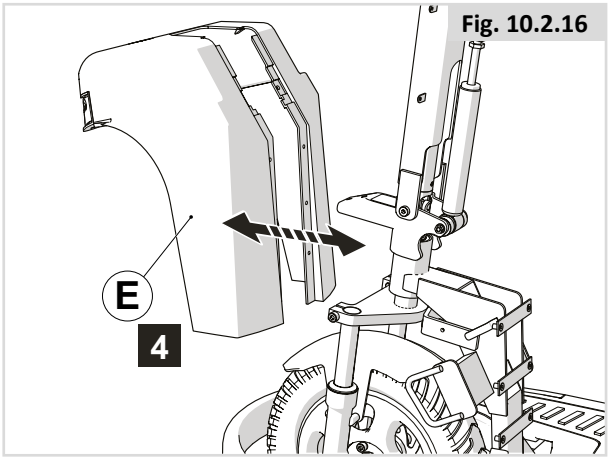


Fig. 10.2.16

Removal of front lights

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the front lights.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the basket, front and rear tiller mouldings and the nose cone moulding

Tools used

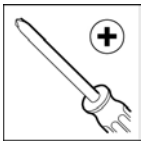


Fig. 10.2.17

1. Unscrew and remove 4 (A) screws from the underside of the nose cone moulding

NOTE: Please hand tighten upon reassembly

Fig. 10.2.18

2. Remove front light assembly (B) from the nose moulding

Fig. 10.2.17

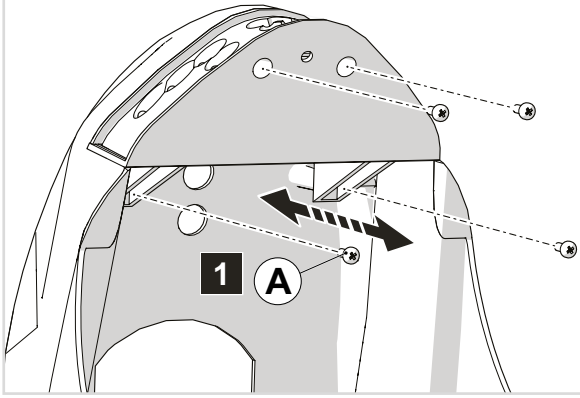
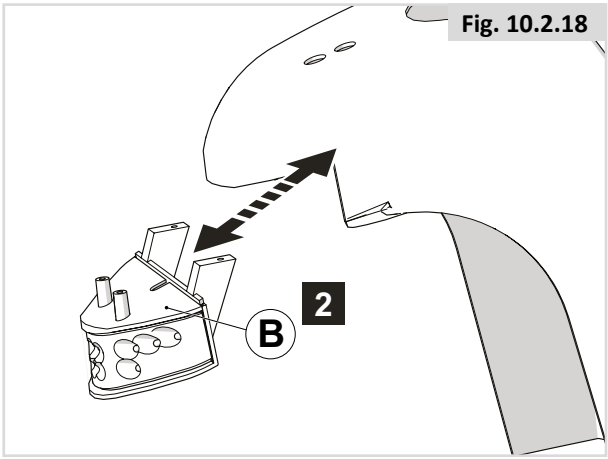


Fig. 10.2.18



Removal of gas strut

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the gas strut assembly.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the basket, disconnect key switch, power and charger plug from the main loom. Also, remove front and rear tiller mouldings and the nose cone moulding.

Tools used

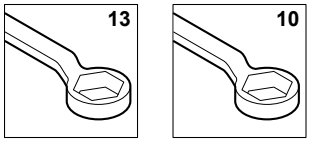


Fig. 10.2.19

1. Using a 13mm wrench and 10mm spanner, unscrew and remove top fixing (A) bolt and (B) nut

Tightening torque for (A) bolt is 19-20Nm.

Fig. 10.2.20

2. Slowly withdraw the bolt, carefully removing the spacers (C) as they become free.

⚠ **WARNING!**

- With the gas strut disconnected the tiller is free to swing down under force of gravity.

Fig. 10.2.21

3. Using a 13mm wrench and 10mm spanner, unscrew and remove bottom fixing (D) bolt and (E) nut

Tightening torque for (D) bolt is 19-20Nm.

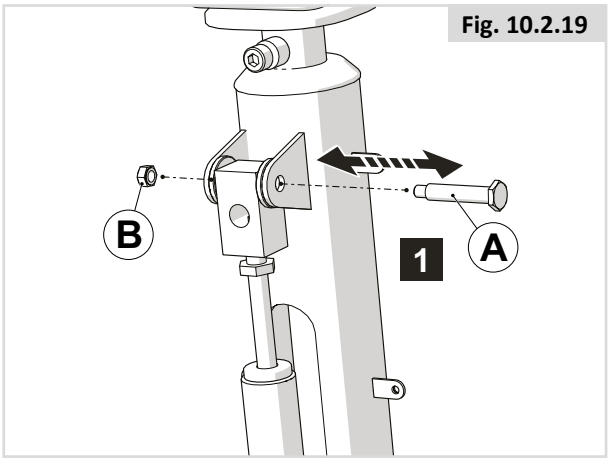


Fig. 10.2.19

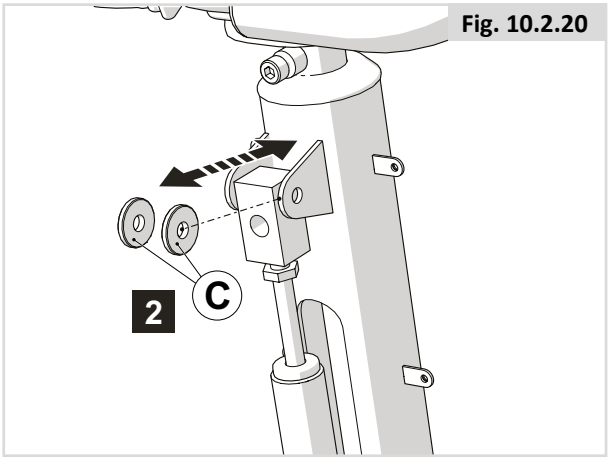


Fig. 10.2.20

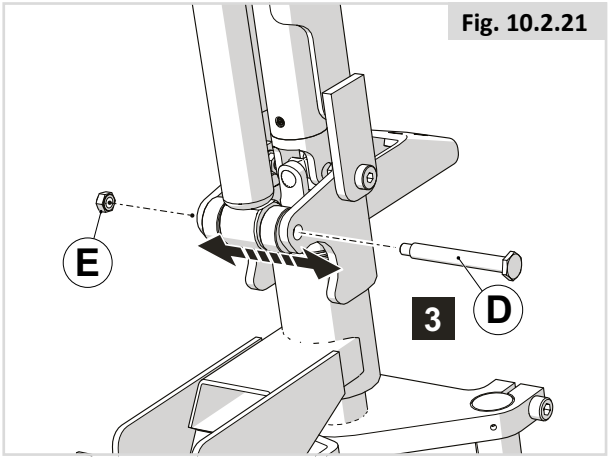


Fig. 10.2.21

Fig. 10.2.22

4. Slowly withdraw the bottom bolt, carefully removing the spacers (F) as they become free.

NOTE: The bottom fixing bolt is longer than the top bolt. The Elite2 Plus also has thicker bottom spacers.

Fig. 10.2.23

5. Remove the gas strut (G) from the tiller

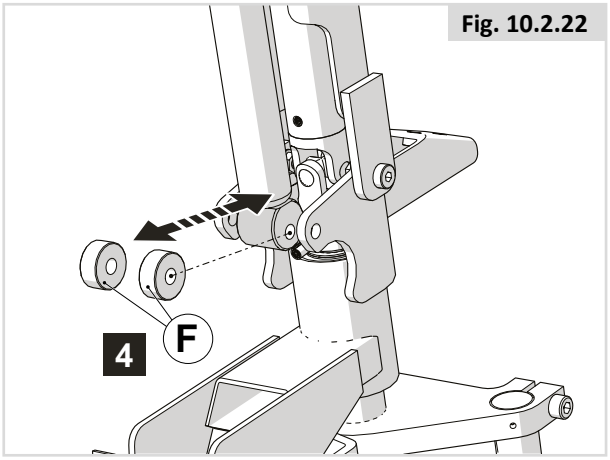


Fig. 10.2.22

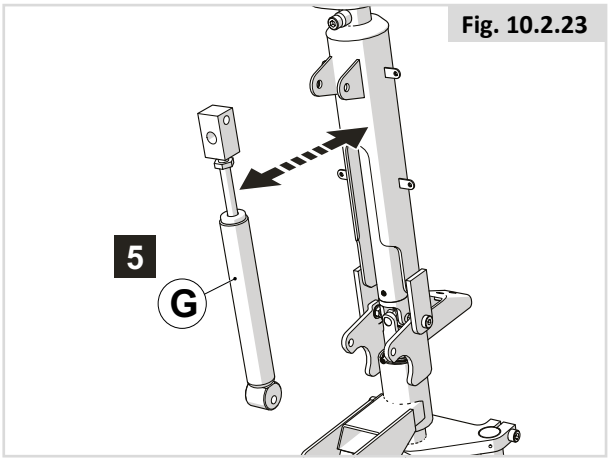


Fig. 10.2.23

Removal of seat

Preparation
Note! Switch the power off by turning the ignition key

Tools used

N/A

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the seat.
- Rebuild the scooter in reverse order once completed.

Fig. 10.2.24

1. Pull flat lever (A) forward on the left-hand side of the seat

Fig. 10.2.25

2. Rotate seat (B) beyond 90°

Fig. 10.2.26

3. Lift off seat (B)

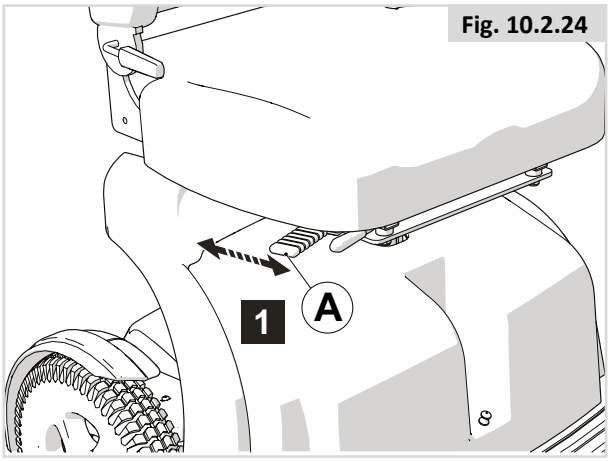


Fig. 10.2.24

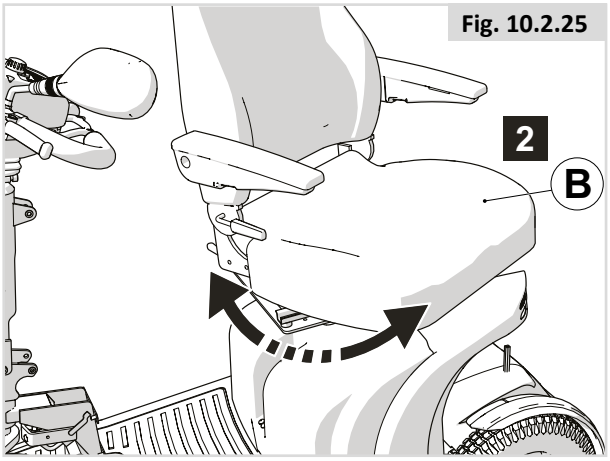


Fig. 10.2.25

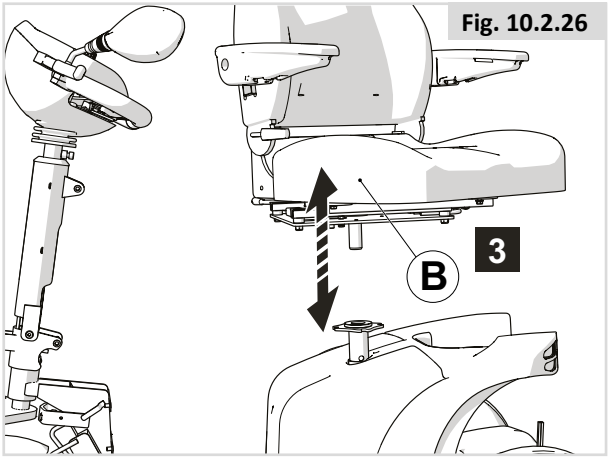


Fig. 10.2.26

Removal of seat slider

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the seat slider.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat.

Tools used

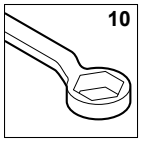


Fig. 10.2.27

1. Unscrew and remove 4 (A) screws from underneath the seat

Tightening torque for (A) screws is 9-10Nm.

Fig. 10.2.28

2. Remove seat slider (B) from seat assembly

Fig. 10.2.27

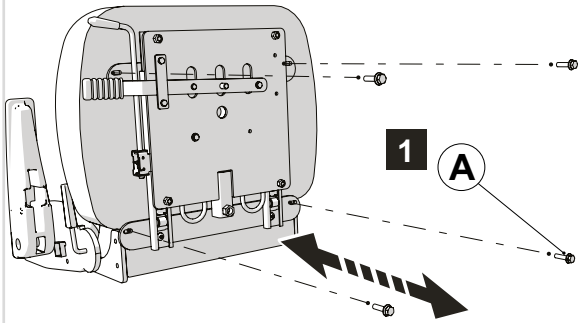
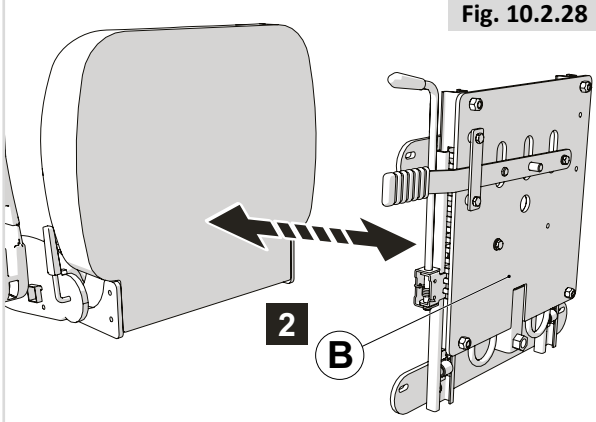


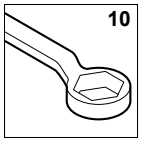
Fig. 10.2.28



Removal of seat slider spring and seat latch

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the seat slider spring and seat latch.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat and battery cover shroud. Also, please disconnect power.

Fig. 10.2.29

1. Unscrew and remove spring retaining bolt (A) from the seat slider

Tightening torque for (A) bolt is 9-10Nm.

Fig. 10.2.30

2. Unclip and remove spring assembly (B) from the opposite side of the seat slider

Fig. 10.2.31

3. Unscrew and remove latch pivot fixing (C)

Tightening torque for (C) screws is 9-10Nm.

Fig. 10.2.29

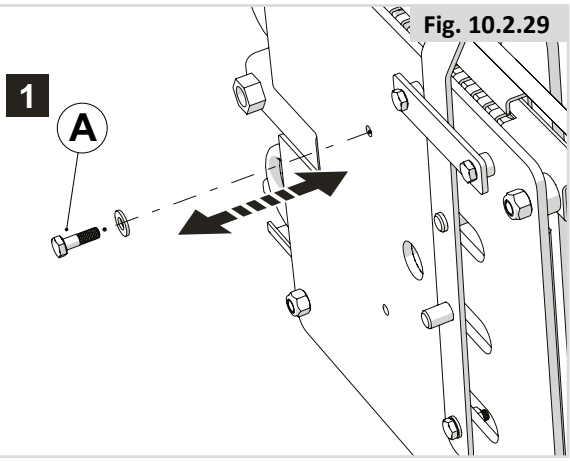


Fig. 10.2.30

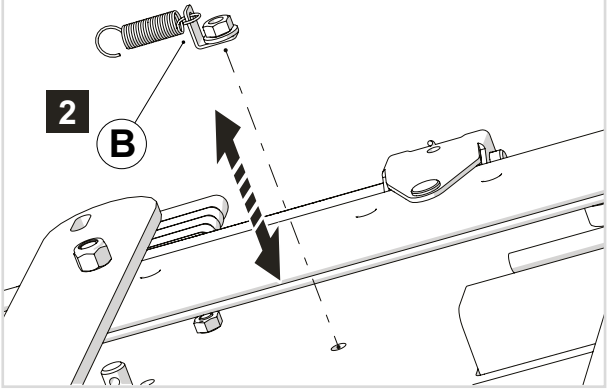


Fig. 10.2.31

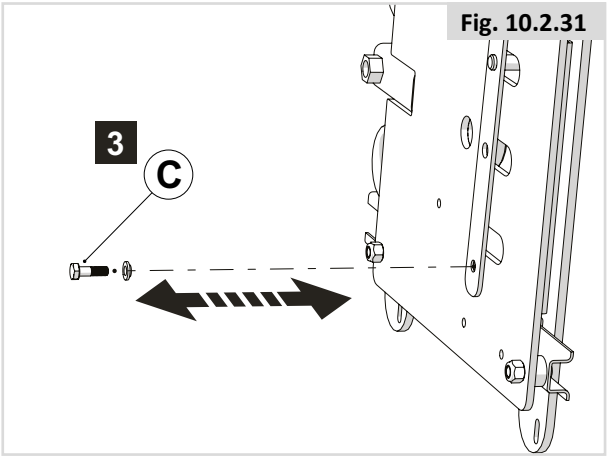


Fig. 10.2.32

4. Unscrew and remove 2 (D) screws from the latch retaining plate. Then remove the latch retaining plate (E) and the spacers (F)

Tightening torque for (D) screws is 9-10Nm.

Fig. 10.2.33

5. Remove seat latch (G) from the seat slider assembly

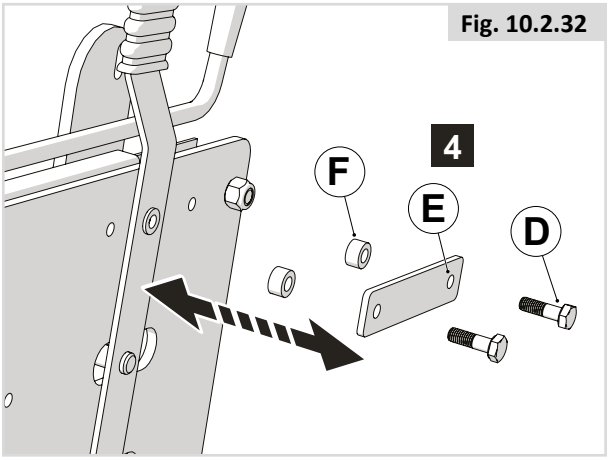


Fig. 10.2.32

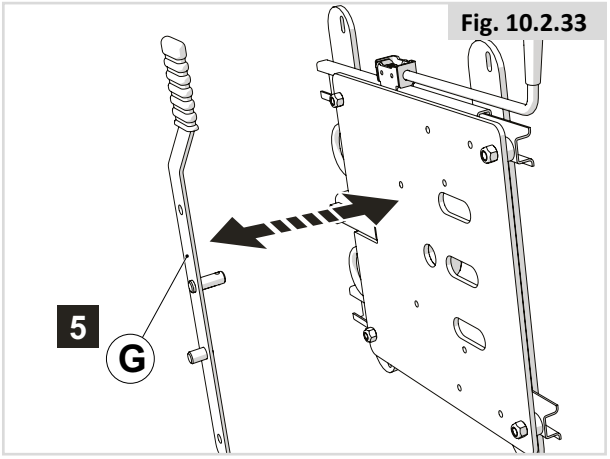


Fig. 10.2.33

Removal of battery cover shroud

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the battery cover shroud.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat.

Tools used

N/A

Fig. 10.2.34

1. Remove small elastic strap located around holding peg (A)

Fig. 10.2.35

2. Remove battery cover shroud

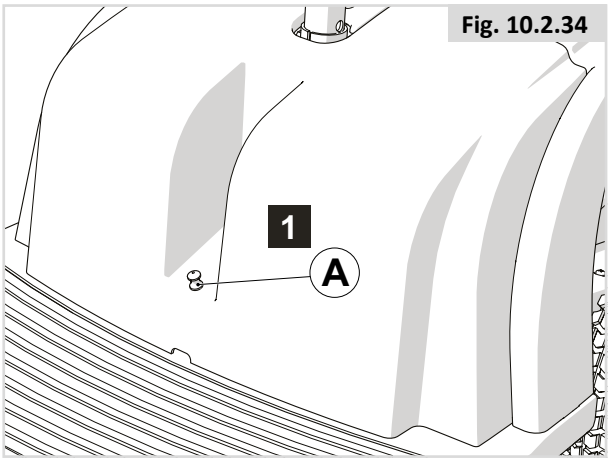


Fig. 10.2.34

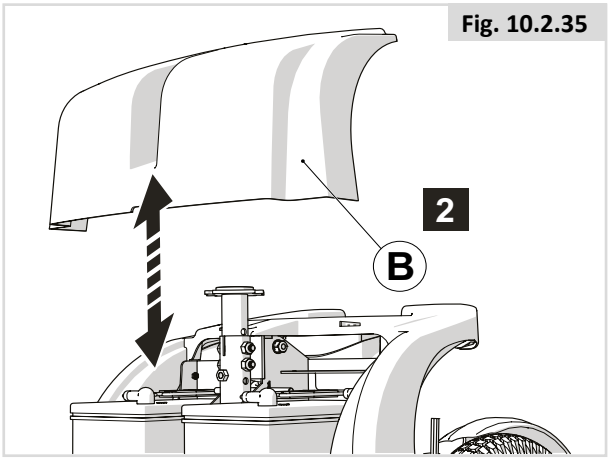
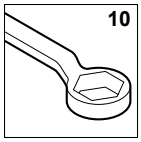


Fig. 10.2.35

Removal of battery/batteries

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the battery/ batteries.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat and battery cover shroud. Also, please disconnect power.

Fig. 10.2.36 **(ALL MODELS)**

1. Disconnect battery connectors (A)

Fig. 10.2.37 **(MINI ONLY)**

2. Peel apart velcro (B) surrounding the batteries

Fig. 10.2.38 **(PLUS & XS ONLY)**

3. Remove battery retaining bar pin (C) on each side of the battery

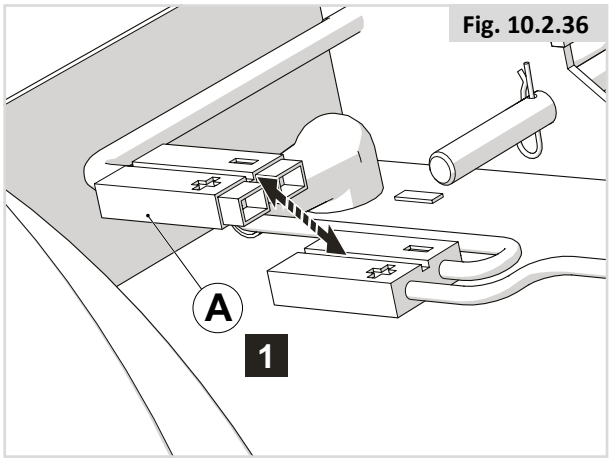


Fig. 10.2.36

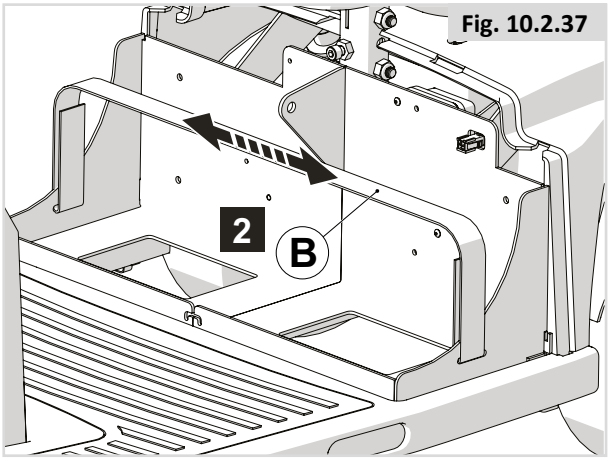


Fig. 10.2.37

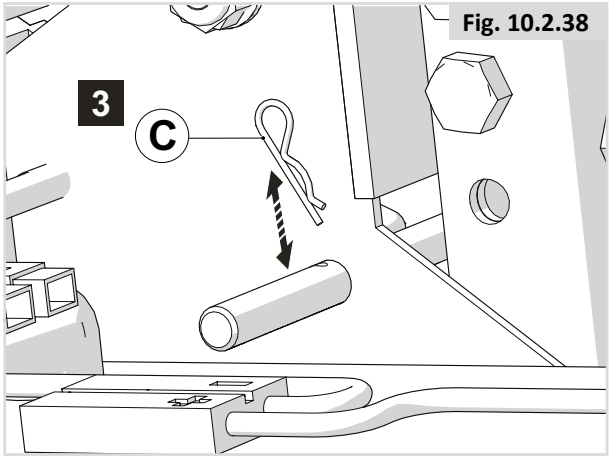


Fig. 10.2.38

Fig. 10.2.39 **(PLUS & XS ONLY)**

4. Slide battery retaining bar (D) out

Fig. 10.2.40 **(ALL MODELS)**

5. Remove the fused loom: remove battery terminal cover (E) and then using an 10mm spanner, remove 2 bolts (F) from the battery

Tightening torque for (F) bolts is 9-10Nm.

Fig. 10.2.41 **(ALL MODELS)**

6. Remove battery/batteries (G) from the scooter base

⚠ WARNING!

- Be careful when removing battery situated underneath the S-Drive console.

Careful when removing and replacing (G). Heavy part.

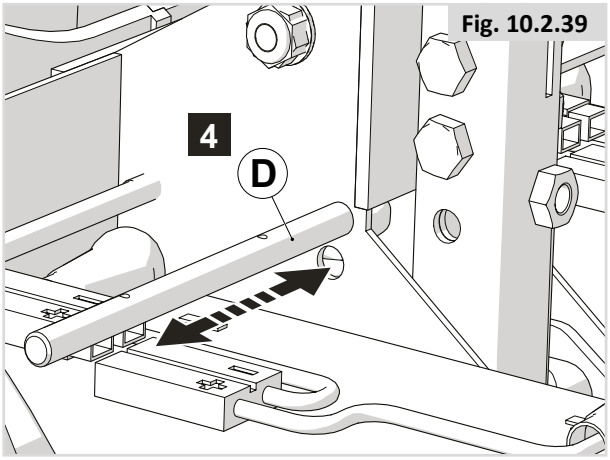


Fig. 10.2.39

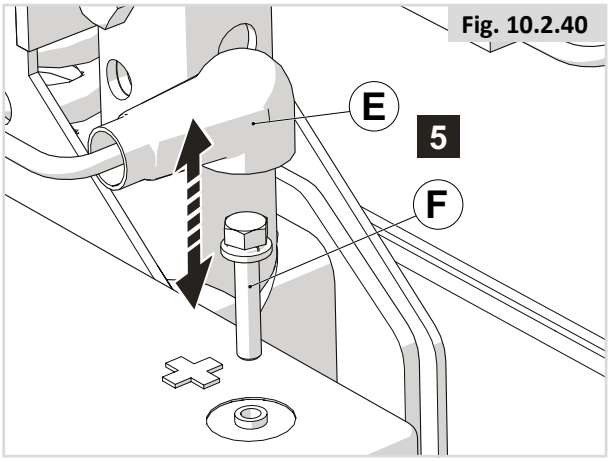


Fig. 10.2.40

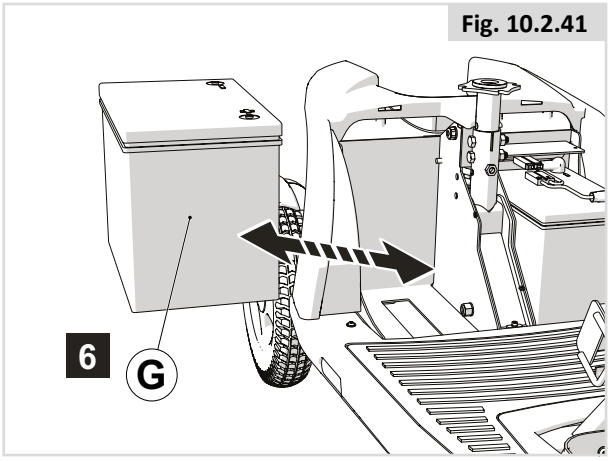
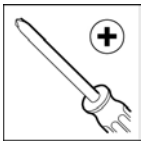


Fig. 10.2.41

Removal of central rear shroud

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the central rear shroud.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat.

Fig. 10.2.42

1. Unscrew and remove (A) screw, situated next to the seat post

NOTE: Please hand tighten upon reassembly

Fig. 10.2.43

2. Unscrew and remove bolt (B) from each side of the rear shroud

NOTE: Please hand tighten upon reassembly

Fig. 10.2.44

3. Remove rear shroud (C)

NOTE: To remove rear shroud completely, feed wires through slot (D) in the rear shroud

Fig. 10.2.42

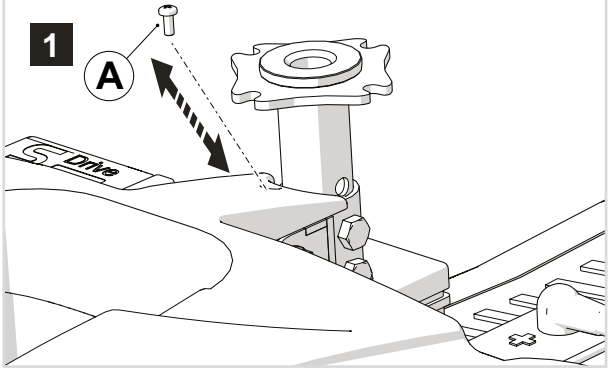


Fig. 10.2.43

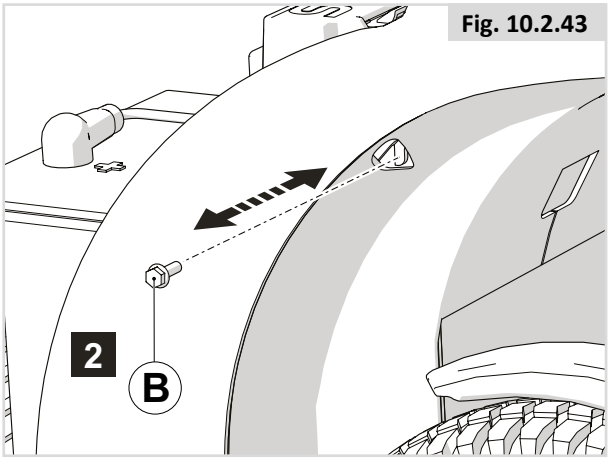
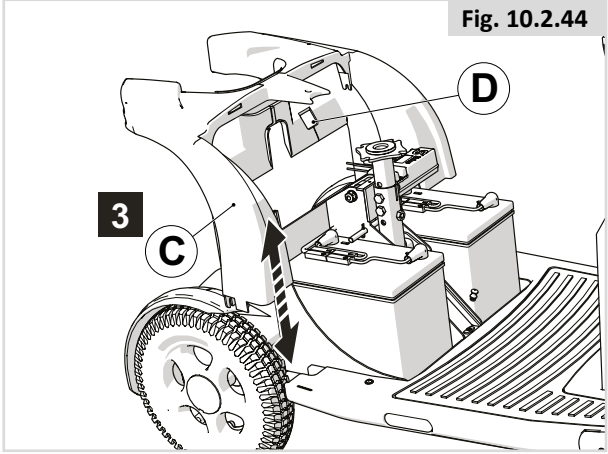


Fig. 10.2.44



Removal of rear shroud (MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the rear shroud (MINI ONLY).
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat.

Tools used

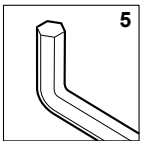


Fig. 10.2.45

1. Unscrew and remove 2 bolts (A) from the top of the rear shroud

Tightening torque for (A) bolts is 10Nm.

Fig. 10.2.46

2. Remove rear shroud (B)

Fig. 10.2.45

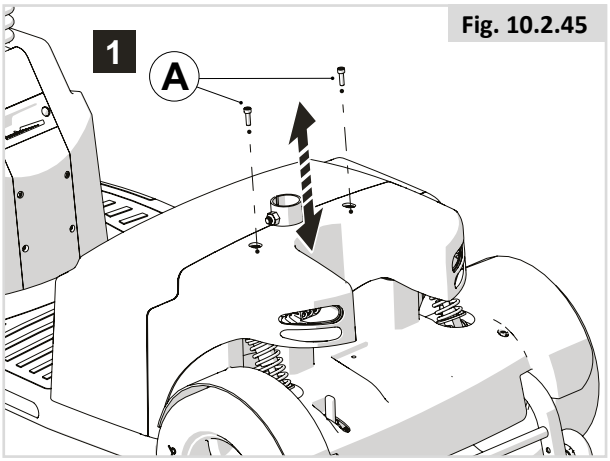
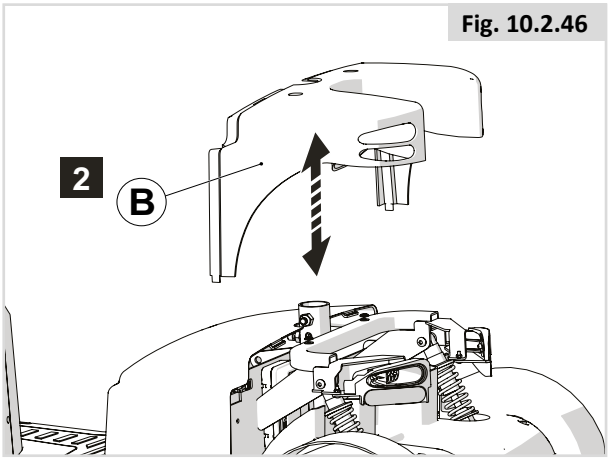


Fig. 10.2.46



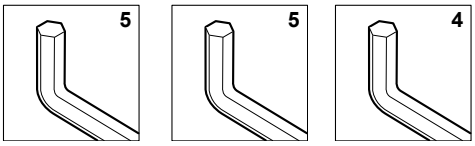
Removal of transaxle cover shroud and suspension spring (MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the transaxle cover shroud.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat and the rear shroud.

Tools used



NOTE: Please elevate the middle of the scooter before continuing with this instruction.

Fig. 10.2.47

1. Uncrew and remove 2 (A) bolts located at the top of the suspension spring

Tightening torque for (A) bolts is 10Nm.

Fig. 10.2.48

2. Fold rear frame (B) away from the rest of the scooter

Fig. 10.2.49

3. Unscrew and remove 3 (C) bolts from the transaxle cover shroud

Tightening torque for (C) bolts is 5Nm.

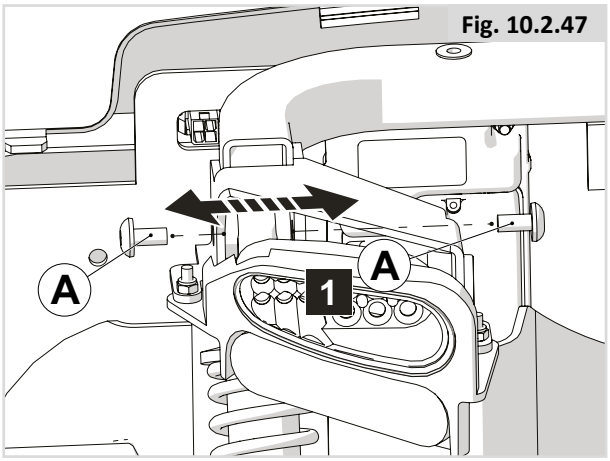


Fig. 10.2.47

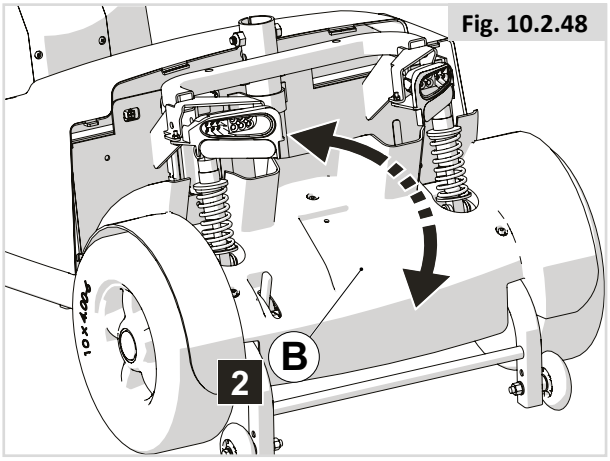


Fig. 10.2.48

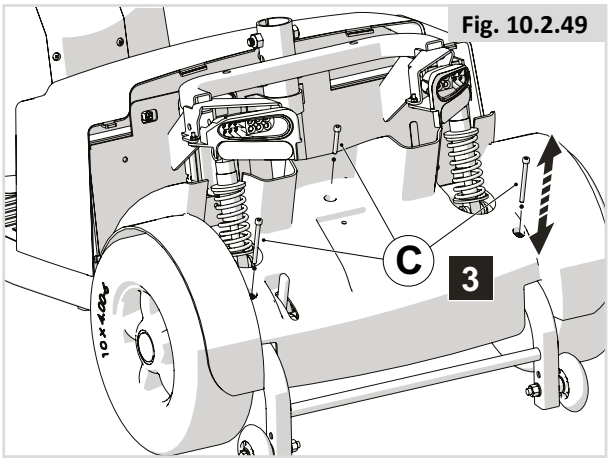


Fig. 10.2.49

Fig. 10.2.50

4. Slide off and remove the transaxle cover shroud (D)

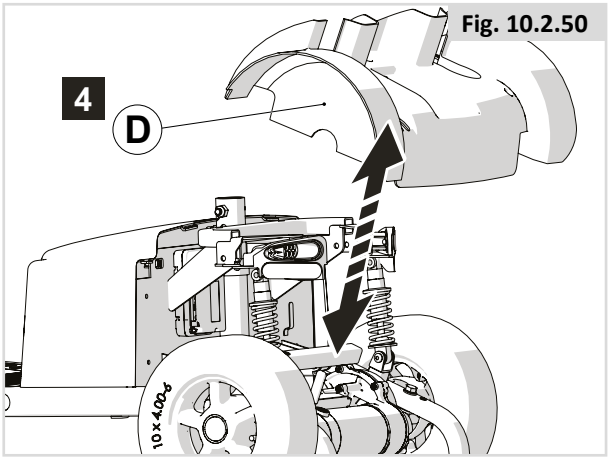


Fig. 10.2.50

Removal of suspension spring

NOTE: Please remove the transaxle cover shroud before completing this instruction.

Fig. 10.2.51

5. Unscrew and remove 2 (E) bolts located at the bottom of the suspension spring

Tightening torque for (E) bolts is 10Nm.

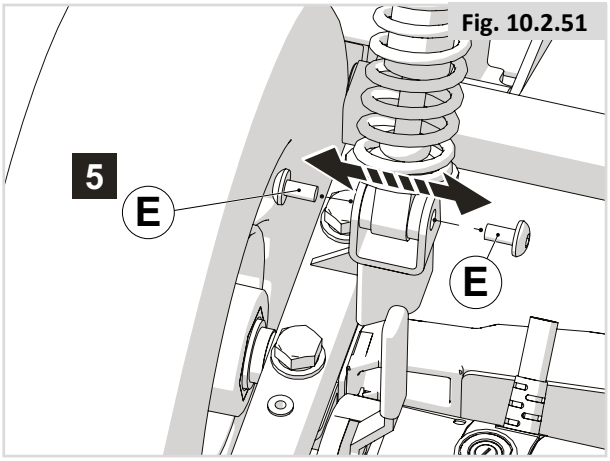


Fig. 10.2.51

Fig. 10.2.52

6. Remove suspension spring (F) from the rear frame

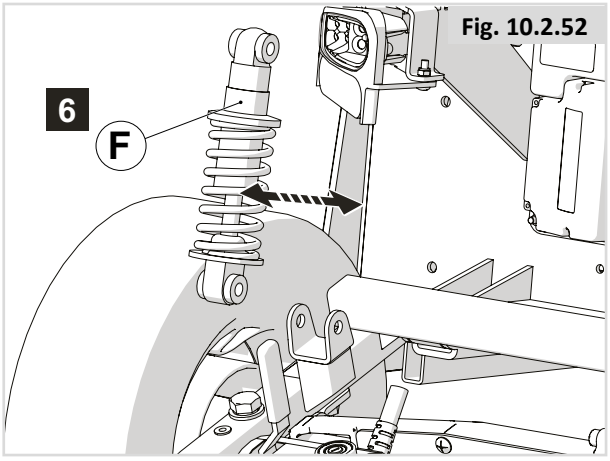


Fig. 10.2.52

Removal of seat post

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the seat post.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat and battery cover shroud.

Tools used

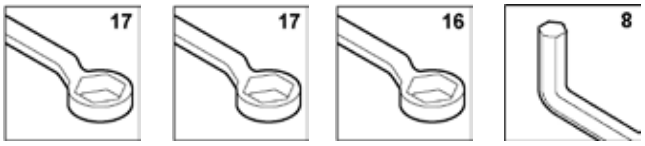


Fig. 10.2.53

1. Using a 17mm spanner and 17mm socket, unscrew and remove both (A) nuts and remove (B) bolts from the seat post

PLUS & XS - Tightening torque for (B) bolts is 50Nm.
Mini only - Tightening torque for (B) bolts is 20Nm.

Fig. 10.2.54

2. Using a 16mm spanner and 8mm Hex key, unscrew and remove central seat post bolt (C) and nut (D)

PLUS & XS - Tightening torque for (C) bolts is 30Nm.
Mini only - Tightening torque for (C) bolts is 35Nm.

Fig. 10.2.55

3. Lift up seat post (E) and remove from the scooter base

Fig. 10.2.53

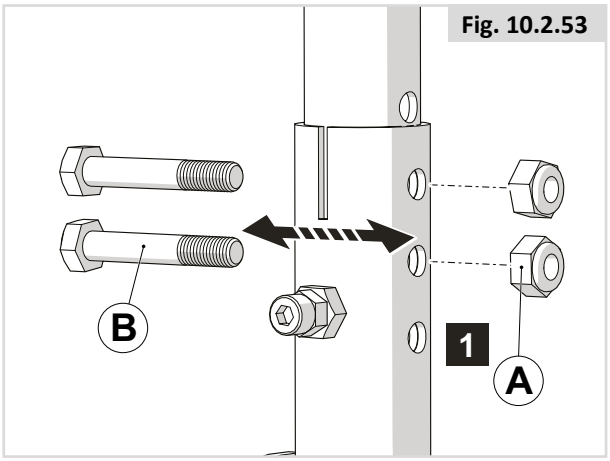


Fig. 10.2.54

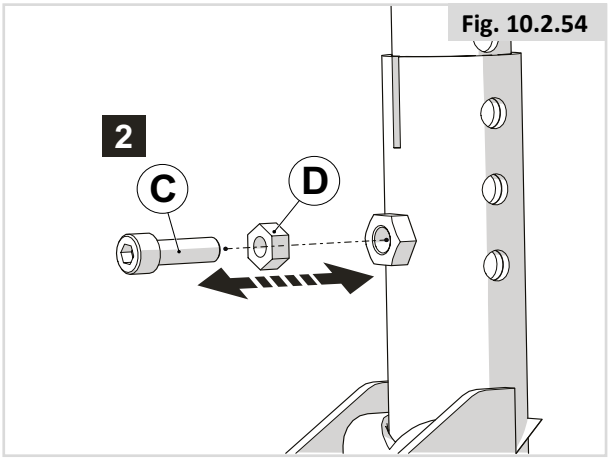
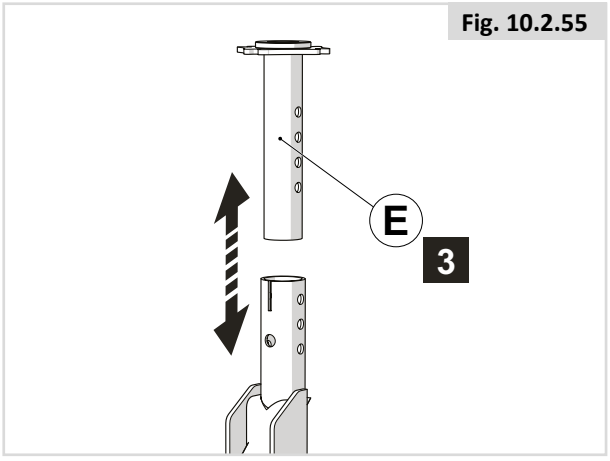


Fig. 10.2.55



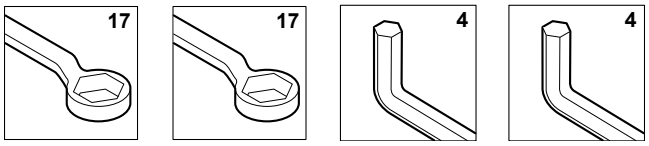
Removal of shock absorber (PLUS & XS only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the rear shock absorber.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat, battery cover shroud, rear shroud and motor cover shroud.

Tools used



NOTE: Please elevate middle of the scooter to make access easier

Fig. 10.2.56

1. Using a 17mm spanner and 17mm socket, unscrew and remove the upper shock absorber fixings (A) & (B)

Tightening torque for (A) bolt is 30Nm.

Fig. 10.2.57

2. Pull shock absorber forward and remove spacers (C)

Fig. 10.2.58 **(PLUS ONLY)**

3. Using 2 x 4mm Hex keys, unscrew and remove 2 (D) bolts from the lower shock absorber assembly under the scooter

Tightening torque for (D) bolts is 5-6Nm.

NOTE: Remove bottom fixing spacers

Fig. 10.2.56

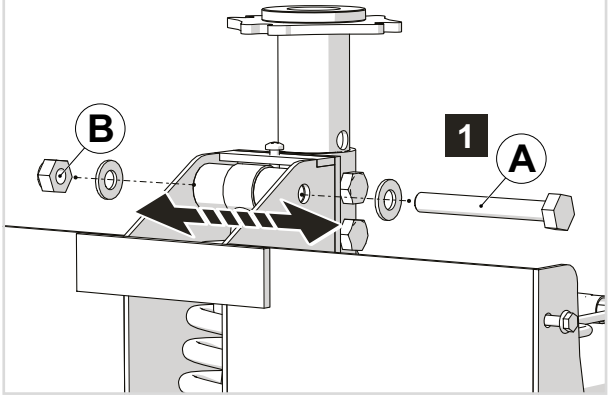


Fig. 10.2.57

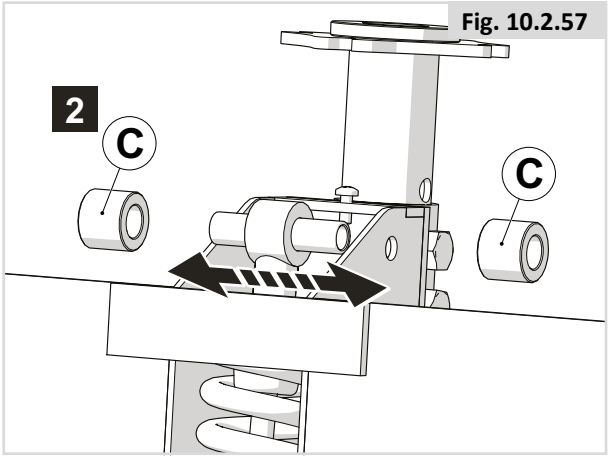


Fig. 10.2.58

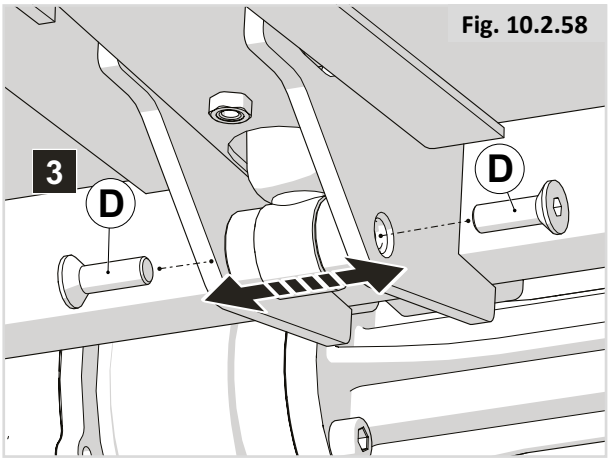


Fig. 10.2.59 **(XS ONLY)**

4. Using a 17mm spanner and 17mm socket, unscrew and remove 2 (E) bolts from the lower shock absorber assembly under the scooter

Tightening torque for (D) bolts is 30Nm.

Fig. 10.2.60

5. Remove shock absorber (E) from the scooter

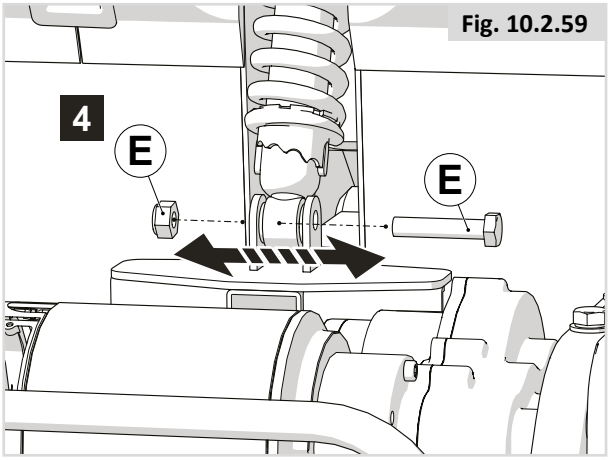


Fig. 10.2.59

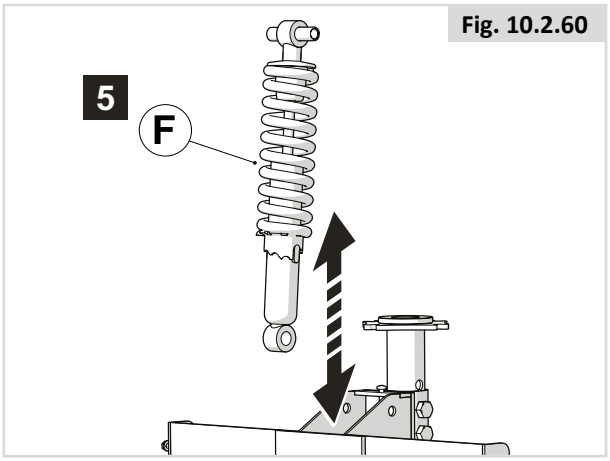


Fig. 10.2.60

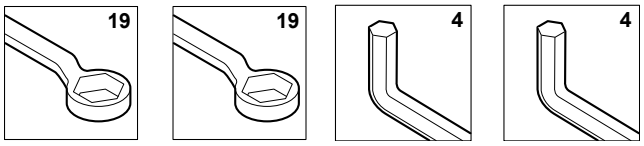
Disconnection of front and rear frames

Preparation
Note! Switch the power off by turning the ignition key

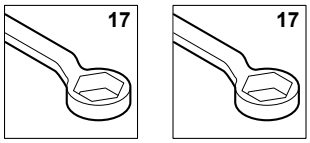
Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing and reconnecting the front and rear frames.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat, battery cover shroud, rear shroud and the batteries.

Tools used



And these for XS (instead of the 4mm Hex keys)



NOTE: Please elevate middle of the scooter to make access easier

Fig. 10.2.61

1. Using a 19mm spanner and 19mm socket, unscrew and remove front and rear connection bolt (A) and nut (B)

Tightening torque for (A) bolts is 120Nm.

Fig. 10.2.62 (PLUS ONLY)

2. Using 2 x 4mm Hex keys, unscrew and remove 2 (C) bolts from the lower shock absorber assembly under the scooter

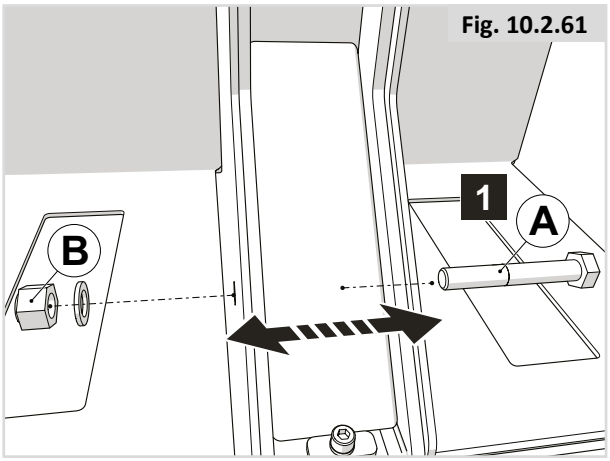
Tightening torque for (C) bolts is 5-6Nm.

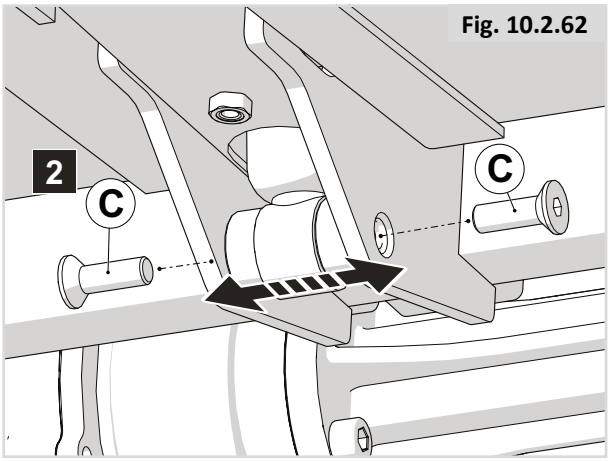
Fig. 10.2.63 (XS ONLY)

3. Using a 17mm spanner and 17mm socket, unscrew and remove 2 (D) bolts from the lower shock absorber assembly under the scooter

Tightening torque for (D) bolts is 30Nm.

NOTE: Remove bottom fixing spacers





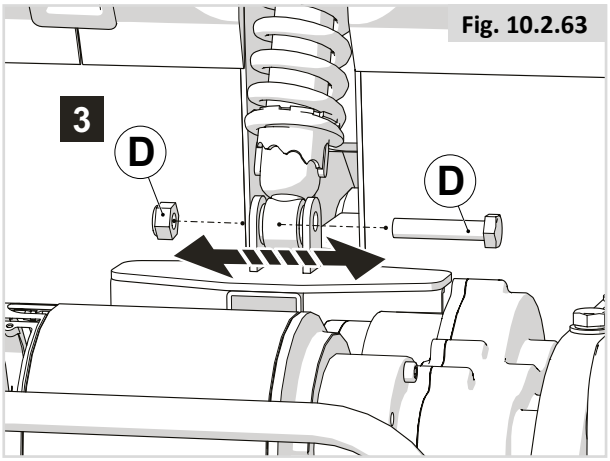


FIg. 10.2.64

4. Remove rear frame (E) from the front frame

FIg. 10.2.65

5. Remove bearings (F) from rear frame

Bearings exploded view

Fig. 10.2.66

Shim rings can optionally be fitted in any combination to remove excess play when connecting the chassis

A= 18mm x 30mm x 0.25mm Shim ring

B= 18mm x 30mm x 0.1mm Shim ring

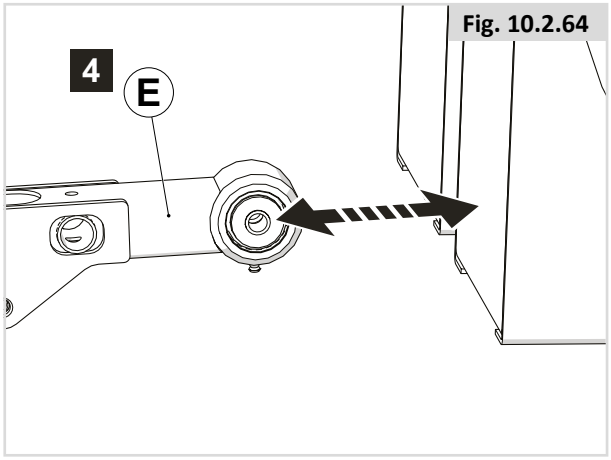


Fig. 10.2.64

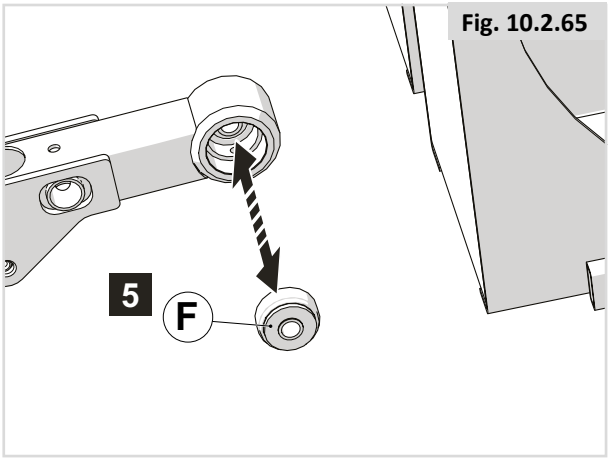


Fig. 10.2.65

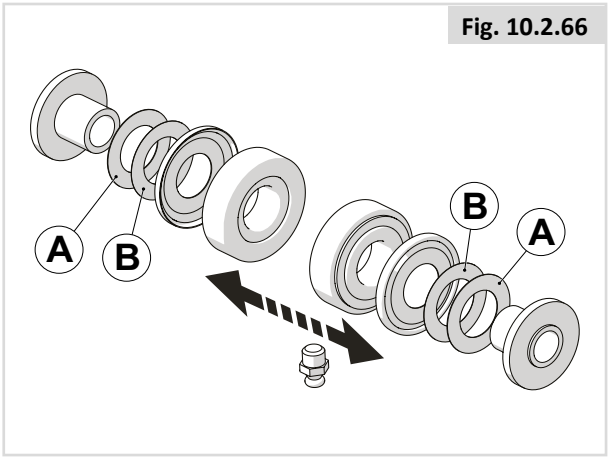


Fig. 10.2.66

Disconnection of front and rear frames (MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for disconnecting the front and rear frames.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat, rear wheels and the transaxle cover shroud.

Tools used

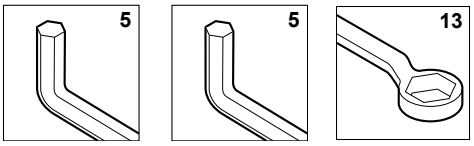


Fig. 10.2.67

1. Unscrew and remove both 2 (A) bolts at the top of the shock absorber on both sides

Tightening torque for (A) bolts is 10Nm.

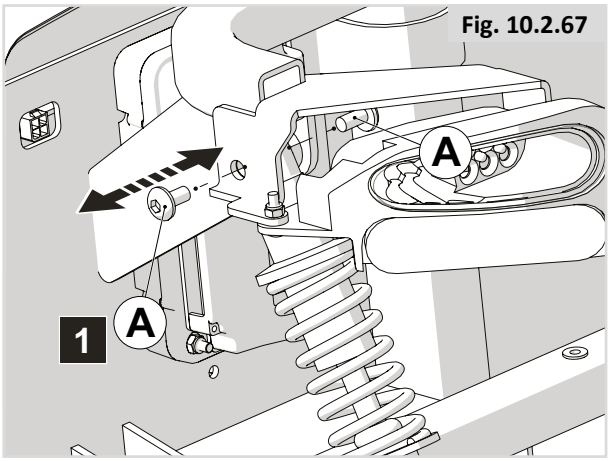
Fig. 10.2.68

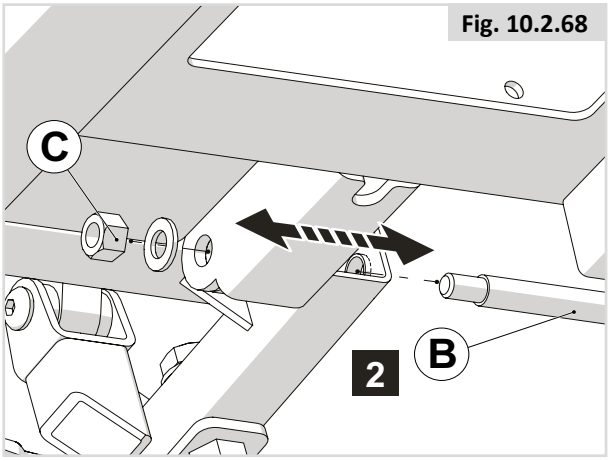
2. Unscrew and remove the shoulder bolt (B) and nut (C) that connects the front and rear frame on both sides

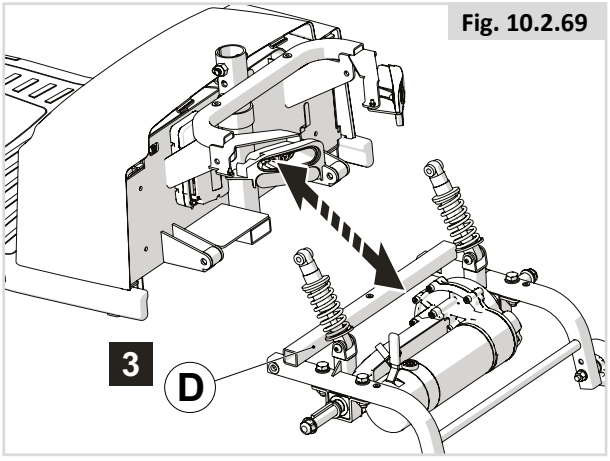
Tightening torque for (B) bolts is 20Nm.

Fig. 10.2.69

3. Disconnect rear frame (D) from the rest of the scooter



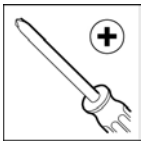




Removal of rear lights

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the rear lights.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat and tilt back the central rear shroud to allow access to disconnect and feed through the 2 rear light connectors.

NOTE: The rear light assemblies are handed (right and left)

Fig. 10.2.70

1. Unscrew and remove both 2 (A) screws in each panel shroud

NOTE: Please hand tighten upon reassembly

Fig. 10.2.71

2. Remove each panel shroud (B) from the central rear shroud

Fig. 10.2.72

3. Unscrew and remove 2 (C) screws from each light assembly

NOTE: Please hand tighten upon reassembly

4. Remove the rear light assembly (D)

Fig. 10.2.70

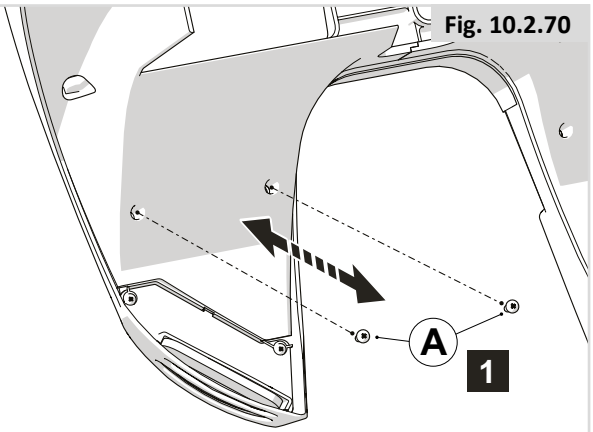


Fig. 10.2.71

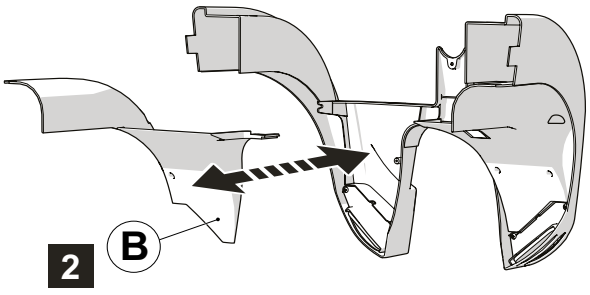
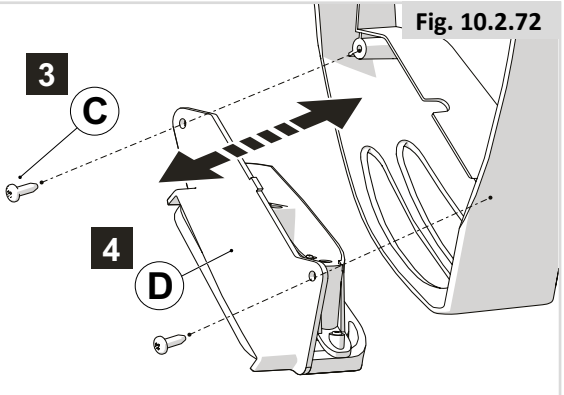


Fig. 10.2.72



Removal of rear lights (MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the rear lights.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the rear shroud.

Tools used

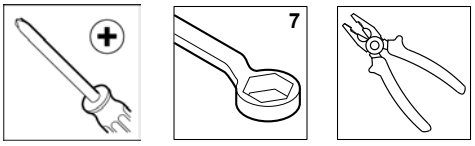


Fig. 10.2.73

1. Unscrew and remove both 2 (A) bolt and (B) nut located on each side of the light

Tightening torque for (A) bolts is 3-4Nm.

Fig. 10.2.74

2. Cut the cable tie (C) from around the light assembly

Fig. 10.2.75

3. Remove the rear light assembly (D)

Fig. 10.2.73

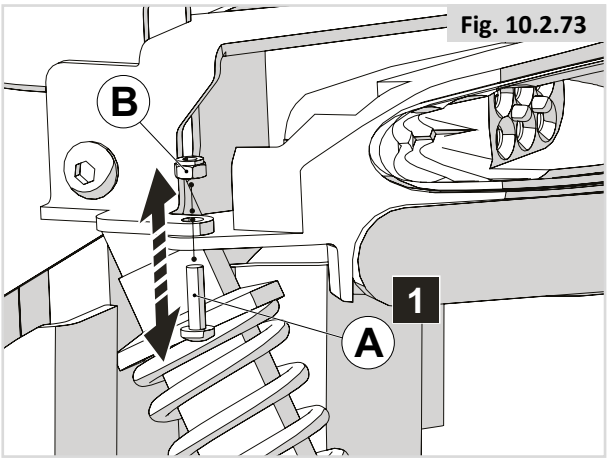


Fig. 10.2.74

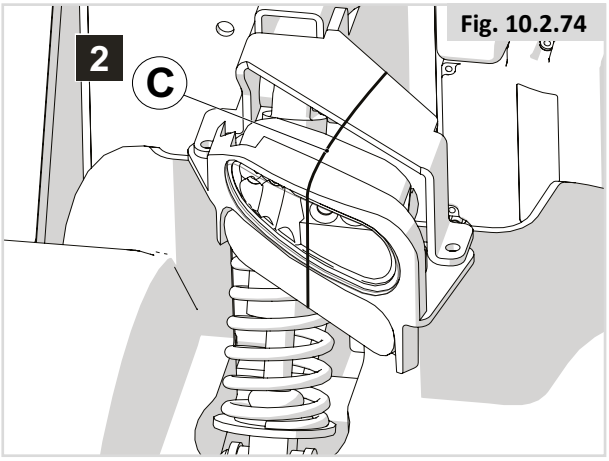
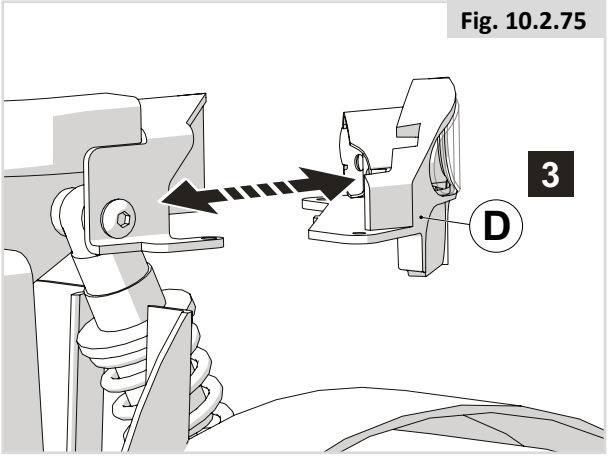


Fig. 10.2.75



Removal of front bumper

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the front bumper.
- Rebuild the scooter in reverse order once completed.

Tools used

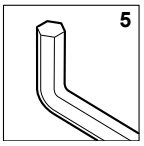


Fig. 10.2.76

1. Unscrew and remove 2 (A) bolts and washers from each side of the front bumper

Tightening torque for (A) bolts is 9-10Nm.

Fig. 10.2.77

2. Remove 1 nut (B) per (A) bolt from underneath the front bumper

Fig. 10.2.78

3. Remove front bumper (C)

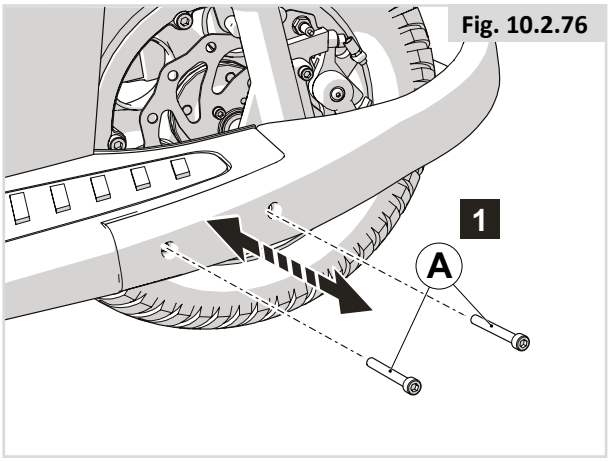


Fig. 10.2.76

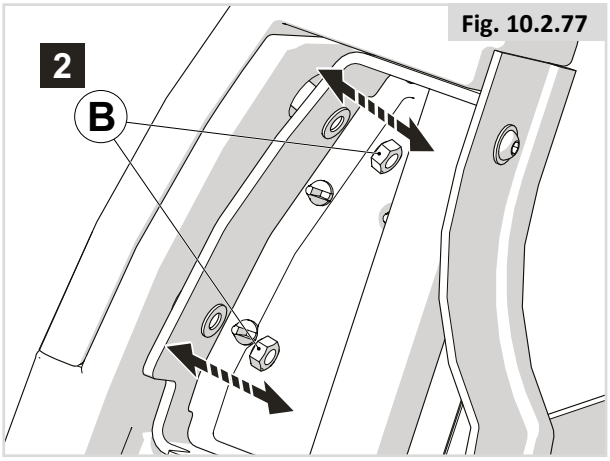


Fig. 10.2.77

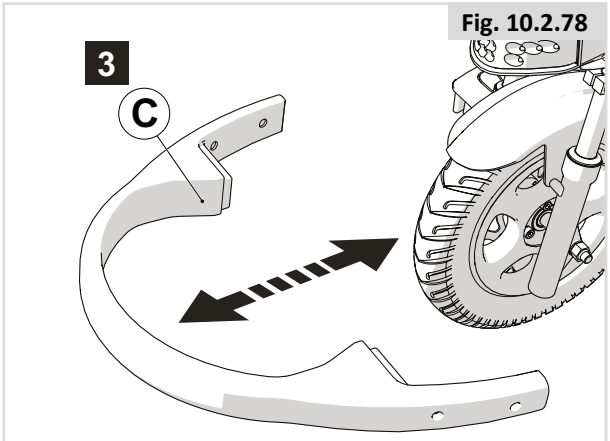


Fig. 10.2.78

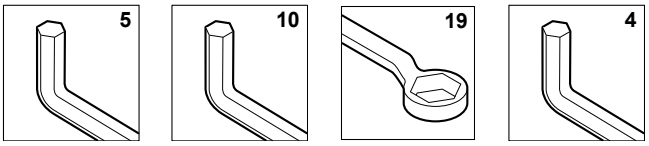
Removal of front wheel and brake disc

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the front wheel and brake disc
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the front bumper.

Tools used



NOTE: Please elevate front of scooter before carrying out this process

Fig. 10.2.79

1. Remove 2 (A) bolts using a 5mm Hex Key

Tightening torque for (A) bolts is 9-10Nm.

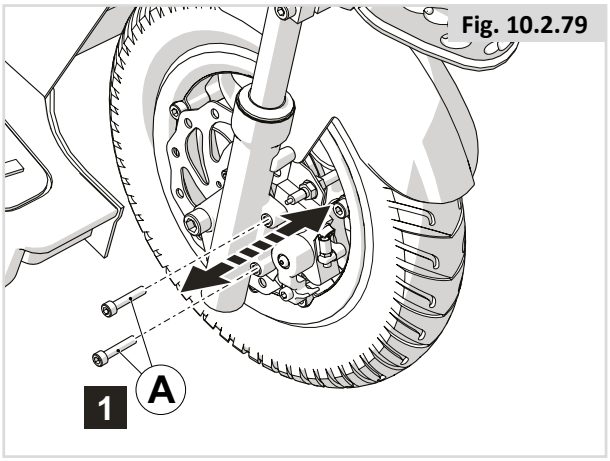
Fig. 10.2.80

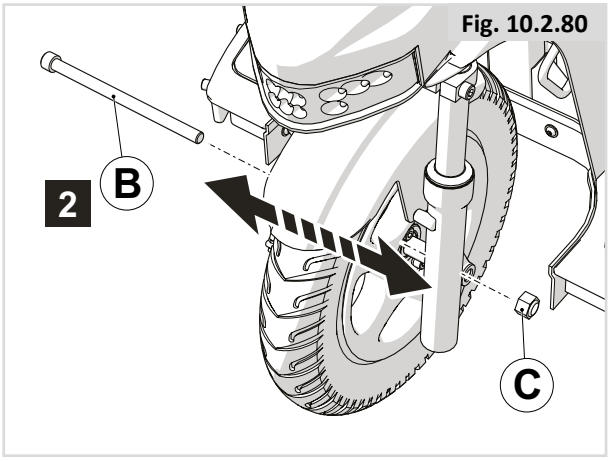
2. Remove axle stud (B) and nut (C) using a 19mm socket and 10mm Hex Key

Tightening torque for (B) axle stud is 32Nm.

Fig. 10.2.81

3. Remove spacers (D) when withdrawing axle stud





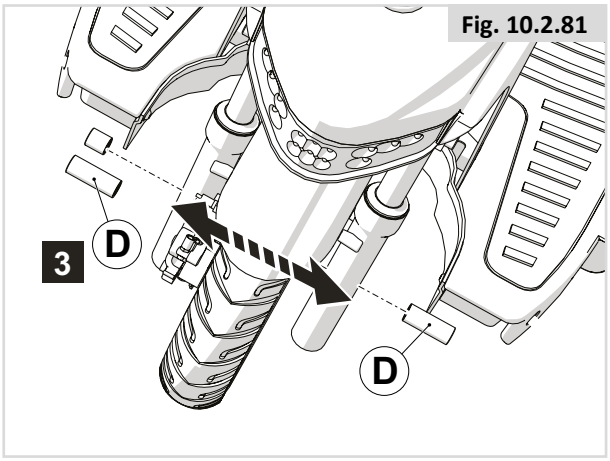


Fig. 10.2.82

4. Remove front wheel (E)

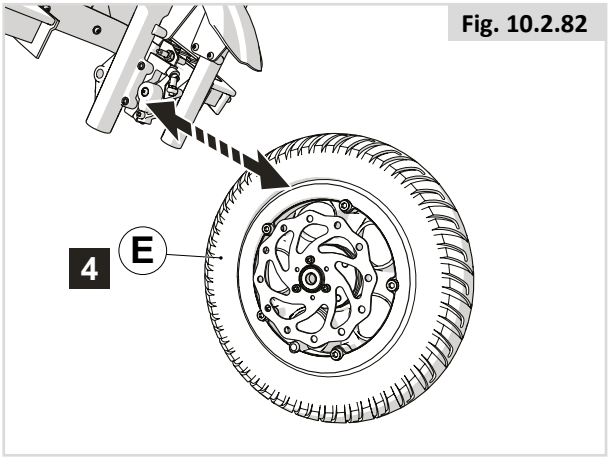


Fig. 10.2.82

Removal of brake disc

NOTE: Remove front wheel first

Fig. 10.2.83

1. Using the 4mm Hex key, unscrew and remove 3 (A) bolts from the brake disc on the wheel assembly

Tightening torque for (A) bolts is 5-6Nm.

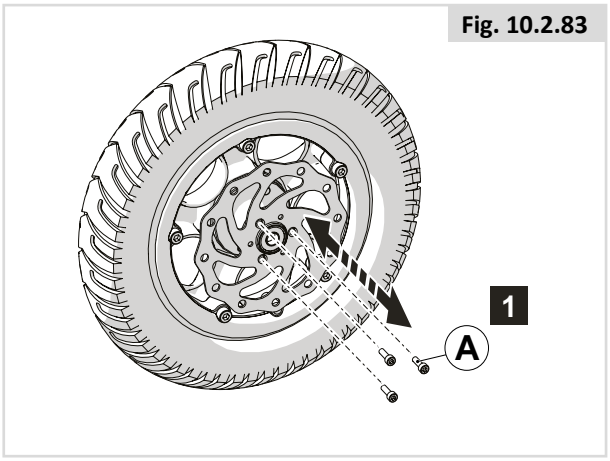


Fig. 10.2.83

Fig. 10.2.84

2. Remove brake disc (B) and split washers (C)

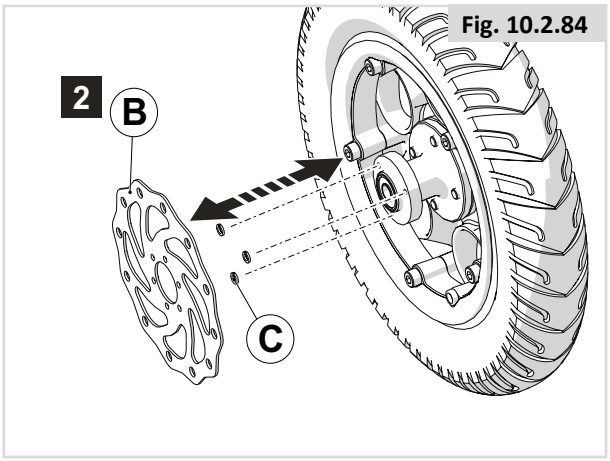


Fig. 10.2.84

Removal of front wheel hub assembly (PLUS only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the front wheel hub assembly.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the front bumper, front wheel and brake disc.

Tools used

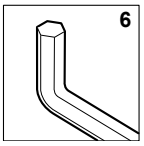


Fig. 10.2.85

1. Unscrew and remove both 4 (A) bolts from the hub assembly

Tightening torque for (A) bolts is 19-20Nm.

Fig. 10.2.86

2. Remove front wheel hub (B) from the wheel assembly

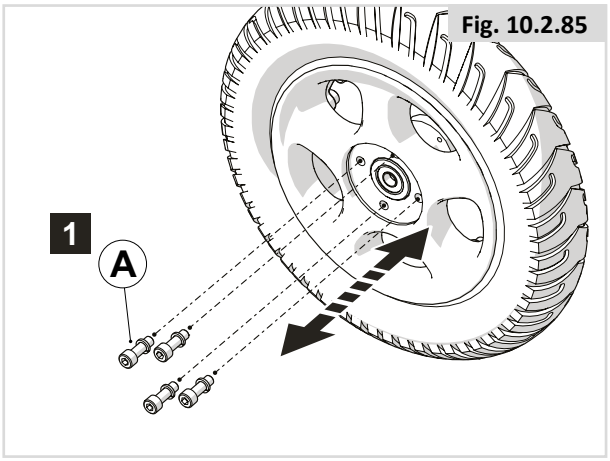


Fig. 10.2.85

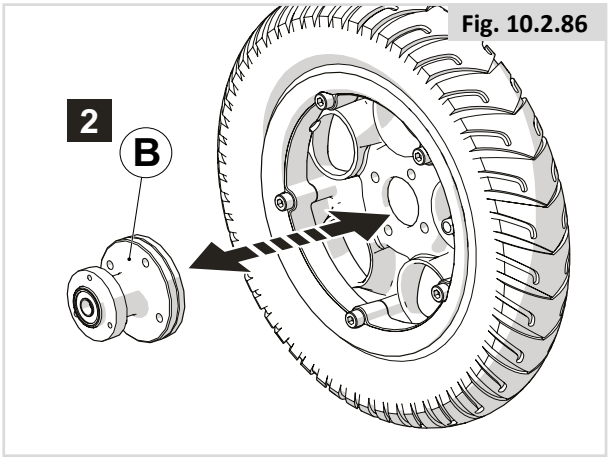


Fig. 10.2.86

Removal of caster fork and yoke (PLUS only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the front caster fork.
- Rebuild the scooter in reverse order once completed.

Tools used

Fig. 10.2.87

1. Unscrew and remove 2 (A) bolts and washers from the brake

Tightening torque for (A) bolts is 9-10Nm.

Fig. 10.2.88

2. Remove brake (B) from the caster fork assembly

Fig. 10.2.89

3. Unscrew and remove P-clip (C) from the yoke assembly

NOTE: Please hand tighten upon reassembly

Fig. 10.2.87

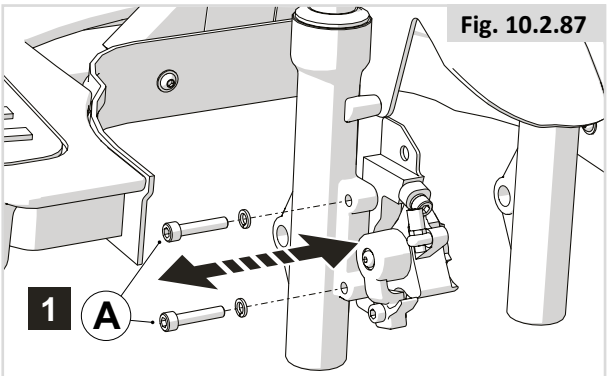


Fig. 10.2.88

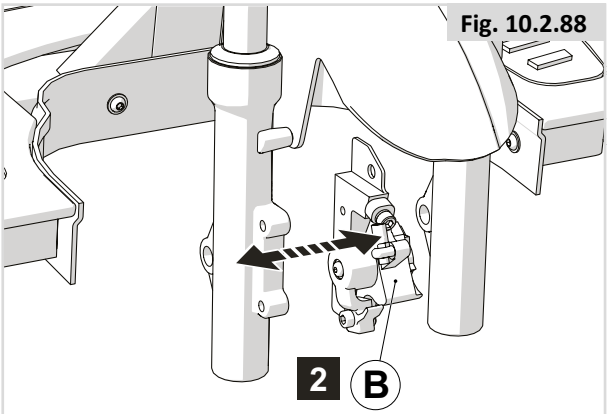


Fig. 10.2.89

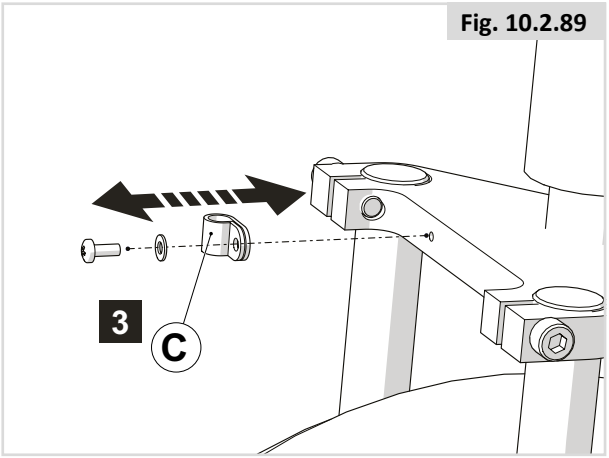


Fig. 10.2.90

4. Unscrew and remove 2 (D) from each side of the mud guard

Tightening torque for (D) bolts is 5-6Nm.

Fig. 10.2.91

5. Remove mudguard (E)

Fig. 10.2.92

6. Unscrew and remove 2 (F) bolts from either side of the yolk

Tightening torque for (F) bolts is 9-10Nm.

Fig. 10.2.93

7. Remove both caster forks (G) from the yolk

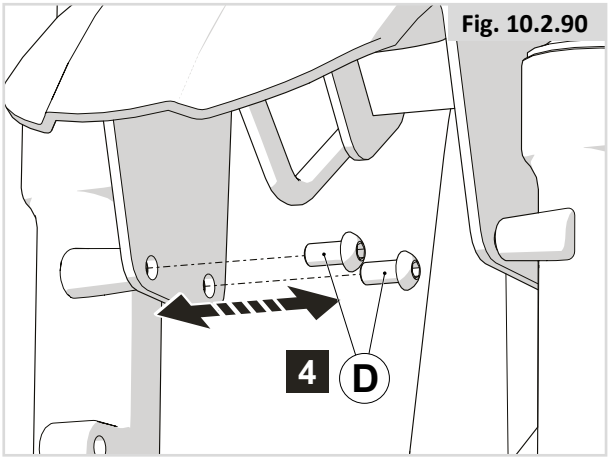


Fig. 10.2.90

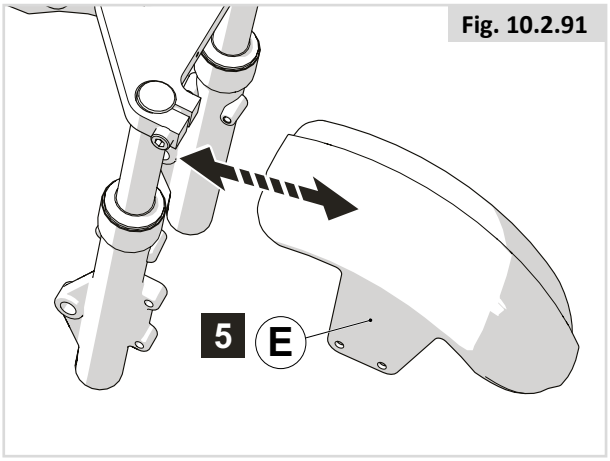


Fig. 10.2.91

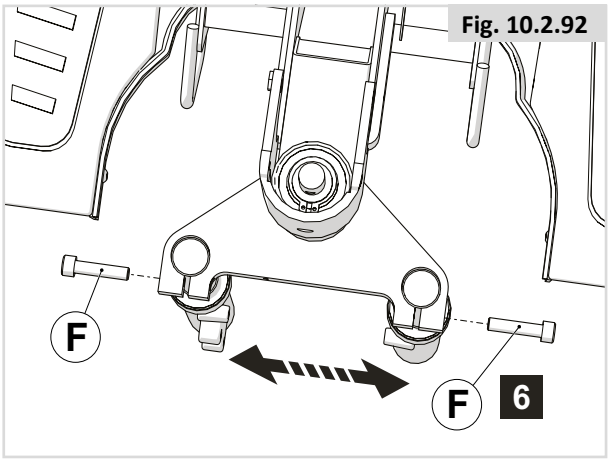


Fig. 10.2.92

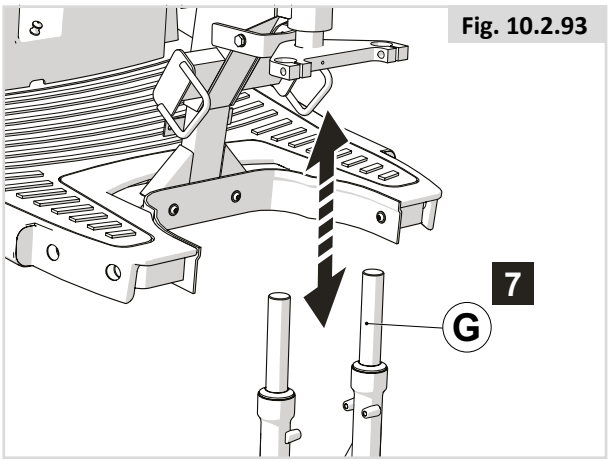


Fig. 10.2.93

Fig. 10.2.94

8. Remove yolk (H) from the front assembly

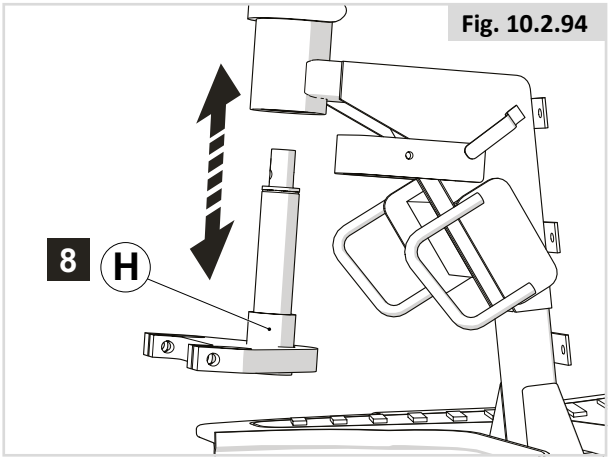


Fig. 10.2.94

Steering bearing removal

In order to complete this, you must first remove the tiller and the castor fork as described previously.

Fig. 10.2.95

1. Remove circlip (A) from bearing assembly

Fig. 10.2.96

2. Using a punch and hammer, remove the bearings (B) from the top and bottom of the tiller head set

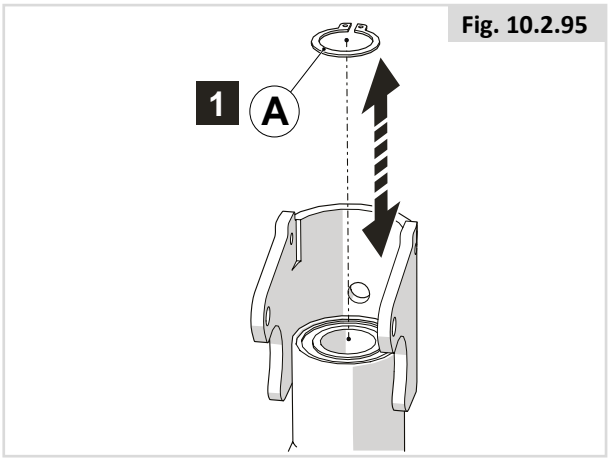


Fig. 10.2.95

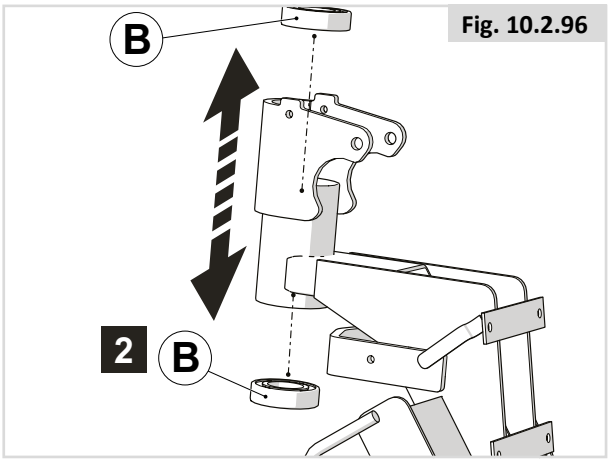


Fig. 10.2.96

Removal of front wheel - (XS & MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the front wheel from the XS scooter.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the front bumper.

Tools used

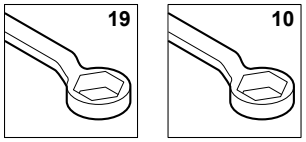


Fig. 10.2.97

1. Unscrew and remove main axle bolt (A) and nut (B) through the front wheel

Tightening torque for axle bolt (A) is 32Nm.

Fig. 10.2.98

2. Remove front wheel (C)

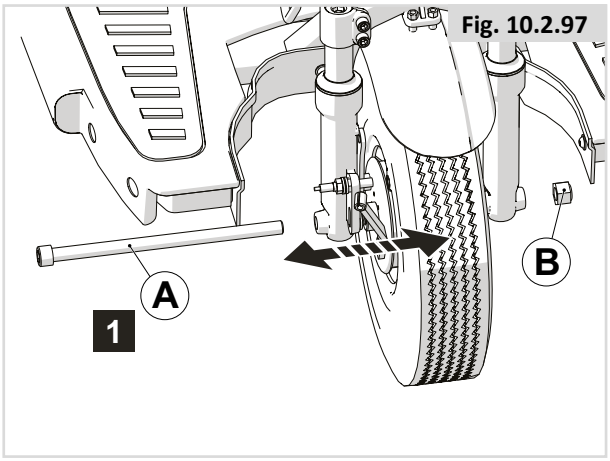


Fig. 10.2.97

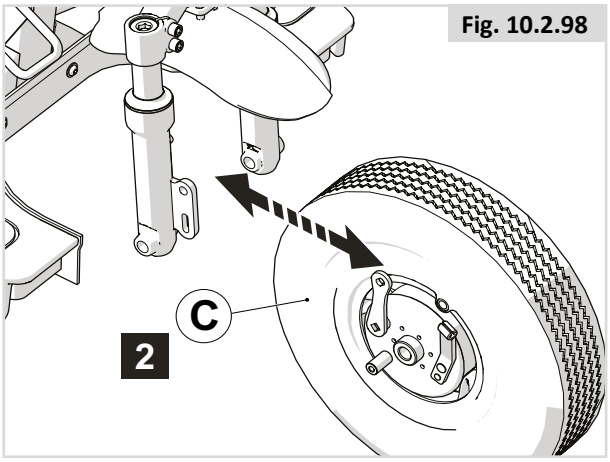


Fig. 10.2.98

Removal of drum brake - (XS & MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the drum brake from the front wheel of the XS scooter.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the front bumper and the front wheel.

Tools used

N/A

Fig. 10.2.99

1. Release pressure from (A)

2. Manoeuvre the wire out of (B)

Fig. 10.2.100

3. Remove drum brake (C) from the front wheel assembly

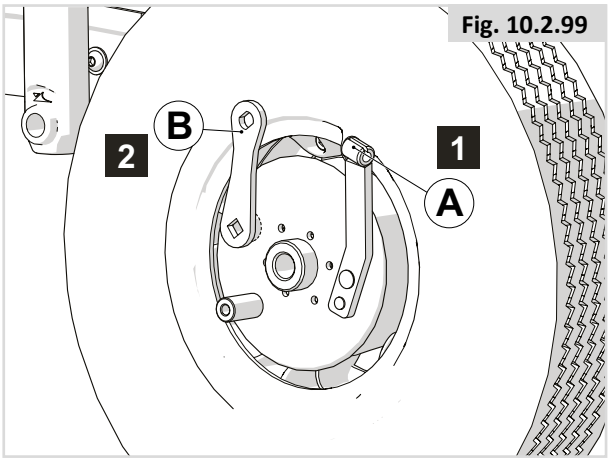


Fig. 10.2.99

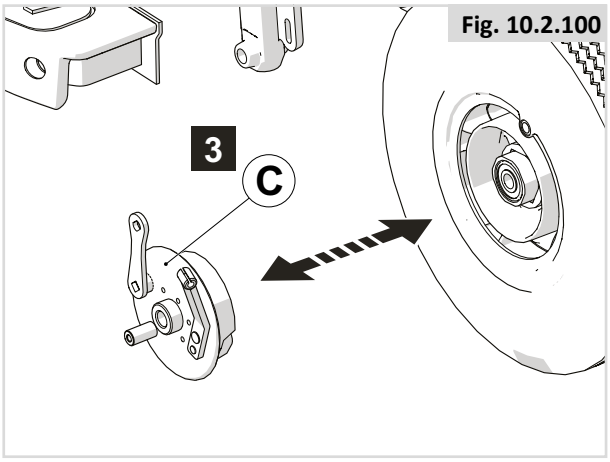


Fig. 10.2.100

Removal of brake shoe - (XS & MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the brake shoe.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the front bumper, front wheel and the drum brake.

Tools used

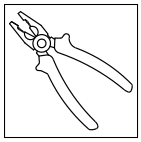


Fig. 10.2.101 shows the drum brake on its own.

Fig. 10.2.102

1. Using pliers, remove the C-clip situated on (A)

Fig. 10.2.103

2. Remove brake shoe/shoes (B) from the drum brake

Fig. 10.2.101

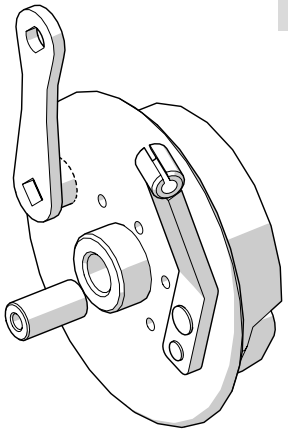


Fig. 10.2.102

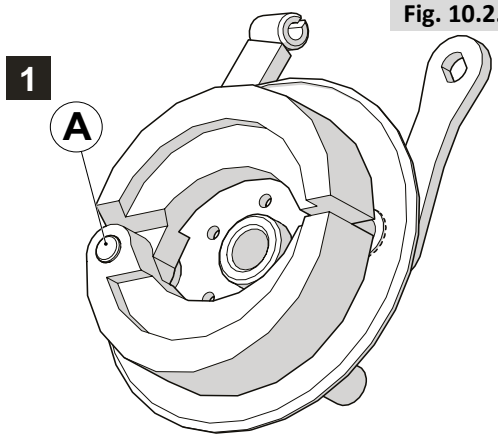
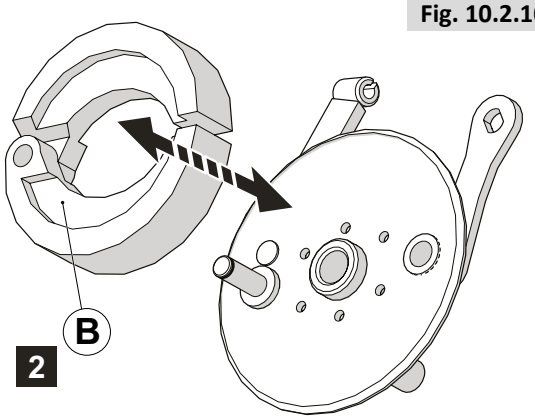


Fig. 10.2.103



Removal of front wheel bearings - (XS & MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the front bumper.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the front bumper, front wheel and the drum brake.

Tools used

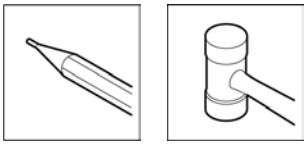


Fig. 10.2.104

1. Using a punch and hammer, punch the bearing through the other, making sure to dislodge one side and repeat on the other side

Fig. 10.2.105

2. Remove bearing (A) from the opposite side

Fig. 10.2.106

3. Repeat process (1) for the remaining bearing (B)

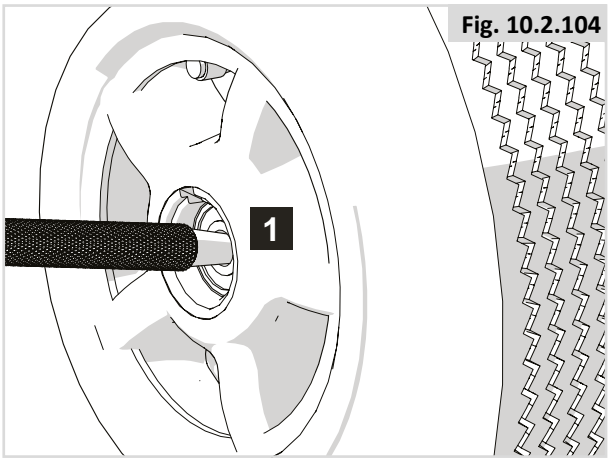


Fig. 10.2.104

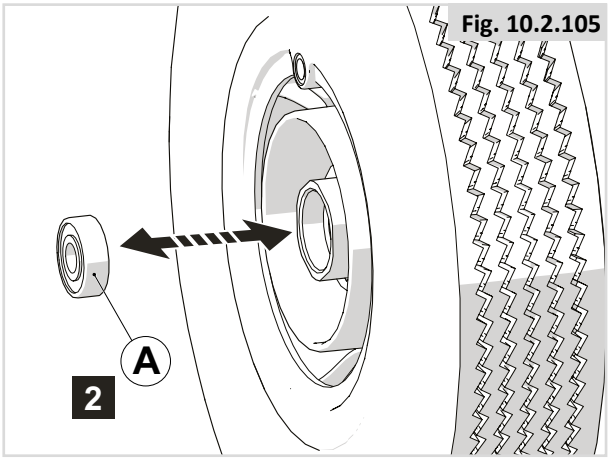


Fig. 10.2.105

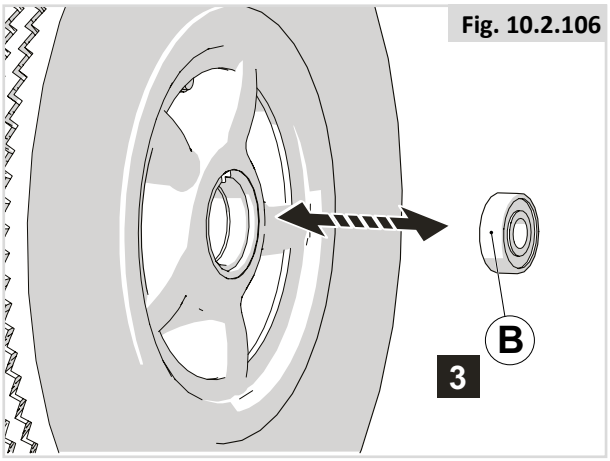


Fig. 10.2.106

Removal of tiller assembly and steering bearings - (XS & MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the front wheel and brake disc
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the front and rear tiller shrouds, nose cone, brake lever, handlebars, central fixing bar and lower pod.
- Please disconnect the main display and gas strut.

Tools used

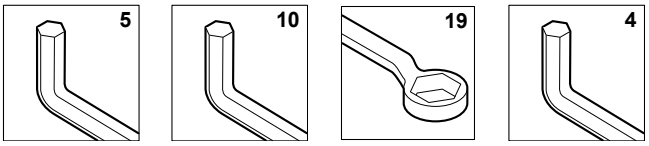


Fig. 10.2.107

1. Unscrew and remove (A) bolt and (B) nut using a 13mm and 10mm spanner from the upper tiller assembly

Tightening torque for (A) bolts is 19-20Nm.

Fig. 10.2.108

2. Remove upper tiller assembly (C) from the lower tiller assembly

Fig. 10.2.109

3. Unscrew and loosen main fixing screw (D) located on the lower tiller assembly

Tightening torque for main fixing screw (D) is 40Nm.

Fig. 10.2.107

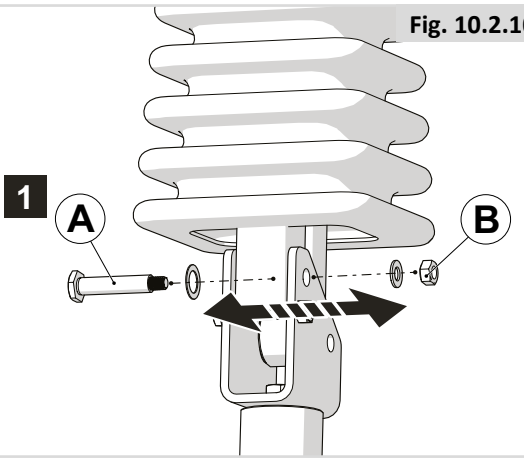


Fig. 10.2.108

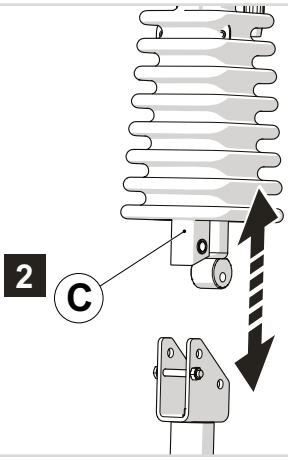


Fig. 10.2.109

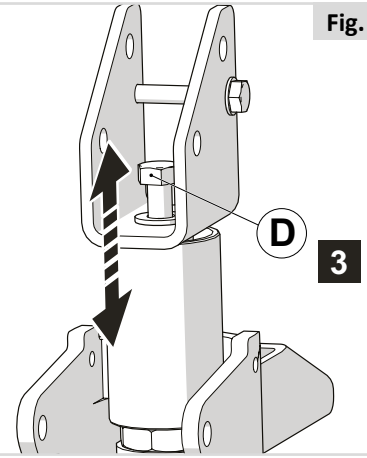


Fig. 10.2.110

4. Once main fixing screw is loosened, you can then pull up and remove the lower tiller assembly (E) and spacer (F)

Fig. 10.2.111

5. Using an adjustable spanner, unscrew and remove nut (G) from the assembly

6. Then use a crosshead screwdriver to remove the washers (H)

Fig. 10.2.112

7. Remove lower steering assembly (I)

Fig. 10.2.113

8. Remove steering bearings (J)

NOTE: You may need to use a punch and plastic hammer to dislodge and remove the bearings.

Fig. 10.2.110

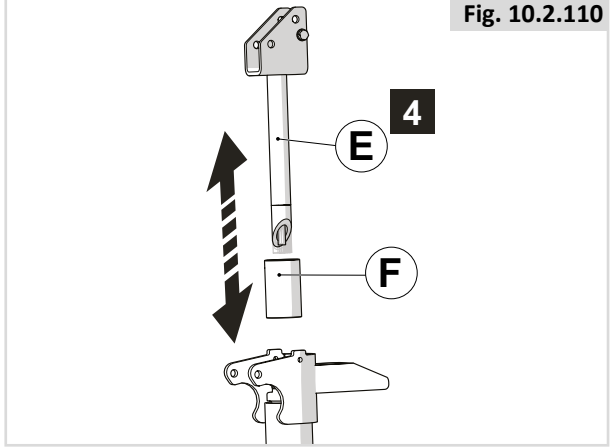


Fig. 10.2.111

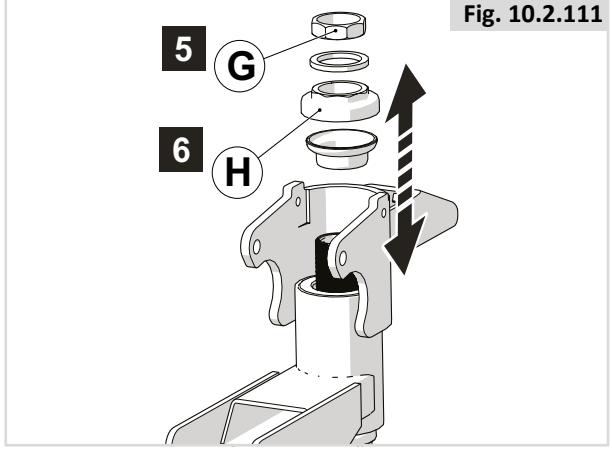


Fig. 10.2.112

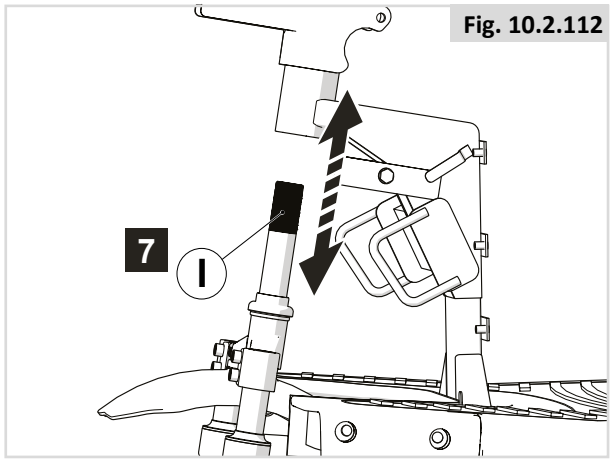
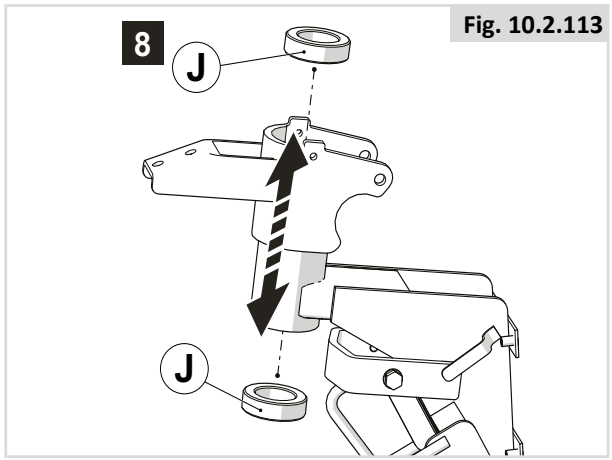


Fig. 10.2.113



Removal of front edging strip - (XS & PLUS only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the front edging strip.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the front wheel.

Tools used

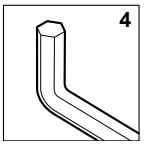


Fig. 10.2.114

1. Unscrew and remove 4 (A) bolts and washers located on the front edging strip

Tightening torque for (A) bolts is 5-6Nm.

Fig. 10.2.115

2. Remove the front edging strip (B)

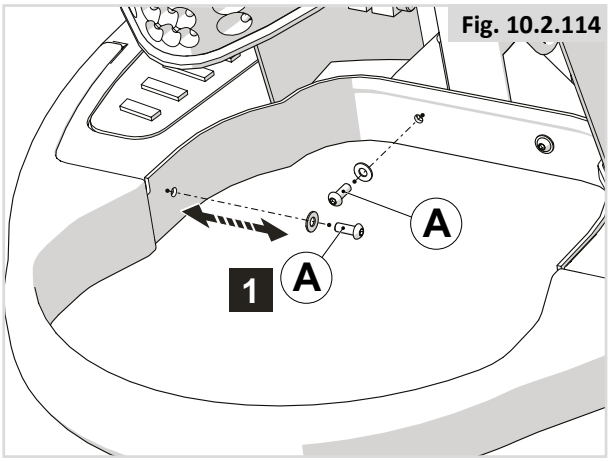


Fig. 10.2.114

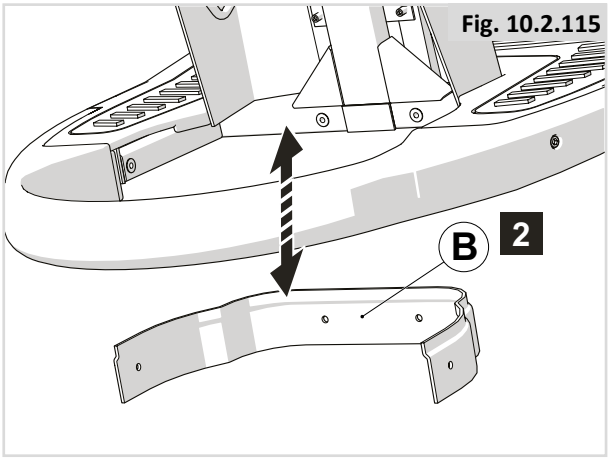


Fig. 10.2.115

Removal of floor mat

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the floor mat.
- Rebuild the scooter in reverse order once completed.

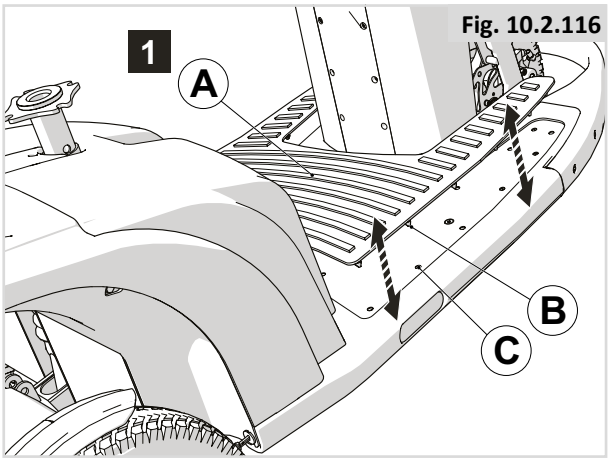
Tools used

N/A

Fig. 10.2.116

1. Lift the mat (A) off by gently pulling up and back

NOTE: The floor mat is secured with rubber plugs (B) that fit into holes (C) in the floor panel



Removal of drive wheel - (XS & MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the XS drive wheel.
- Rebuild the scooter in reverse order once completed.

Tools used

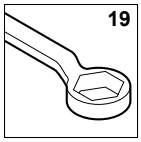


Fig. 10.2.117

1. Remove hub cover (A) using a flathead screwdriver

Fig. 10.2.118

2. Loosen central nut (B) by 2 turns using a 19mm socket

NOTE: After loosening central nut, please elevate rear of scooter

Tightening torque for (B) central nut is 55Nm.

Fig. 10.2.119

3. Once the rear of the scooter has been elevated, fully remove central nut (B)

Fig. 10.2.117

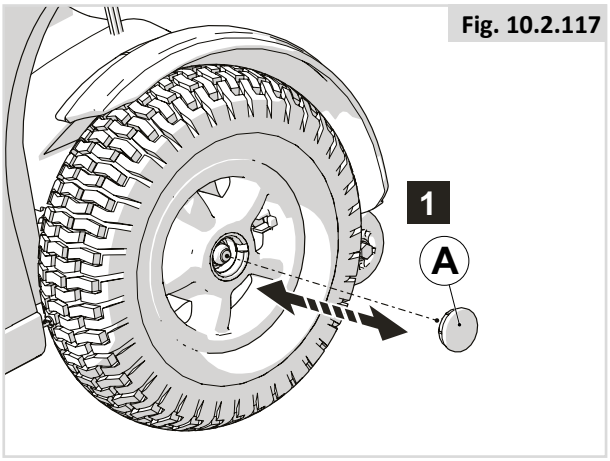


Fig. 10.2.118

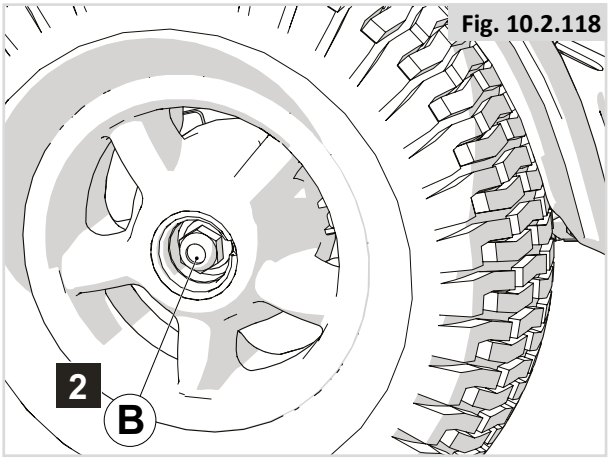


Fig. 10.2.119

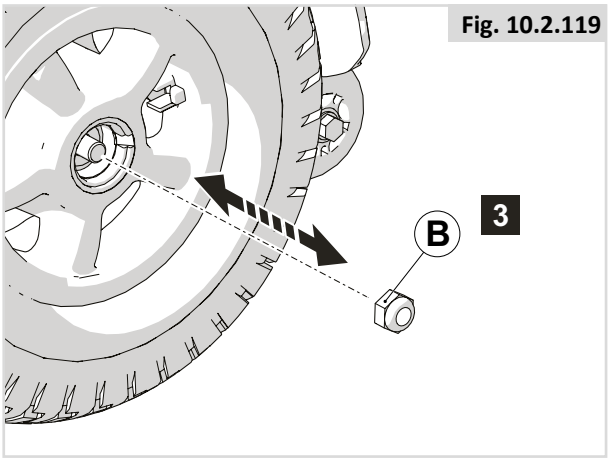


Fig. 10.2.120

4. Remove transaxle washer (C)

NOTE: Replace using the washer size: 28mm*13mm*3.0mm

Fig. 10.2.121

5. Remove drive wheel (D)

Fig. 10.2.122

6. Remove drive key (E) if necessary

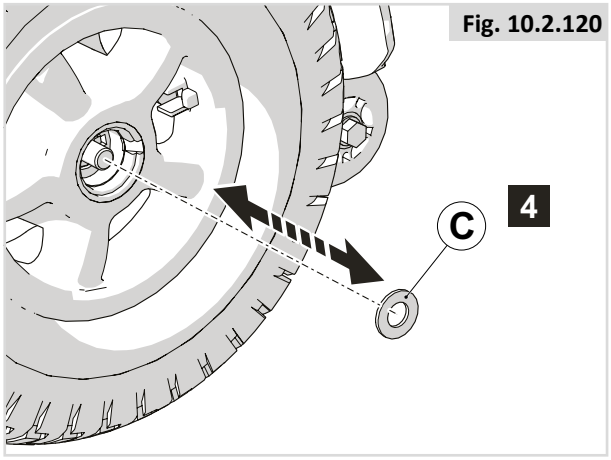


Fig. 10.2.120

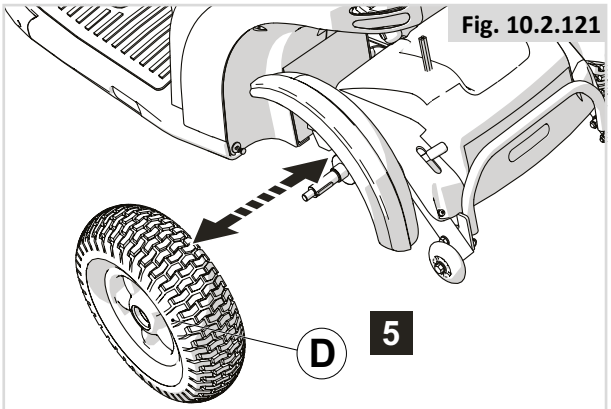


Fig. 10.2.121

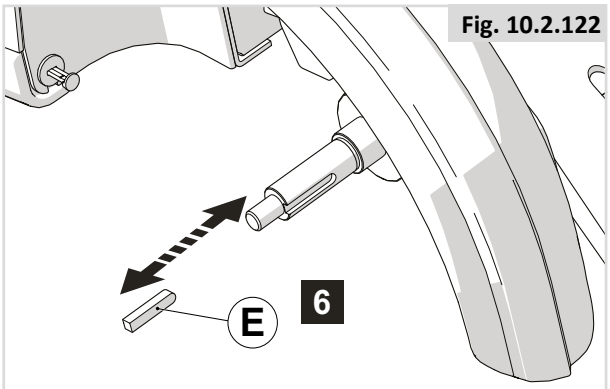


Fig. 10.2.122

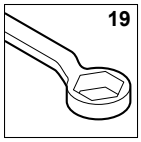
Removal of drive wheel (PLUS only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the Plus drive wheel.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the nose cone moulding and tiller mouldings.

Tools used



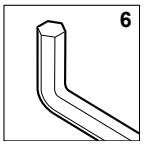


Fig. 10.2.123

1. Remove hub cover (A) using a flathead screwdriver

Fig. 10.2.124

2. Loosen 4 rim studs (B) by 2 turns using a 6mm Hex key

NOTE: After loosening rim studs, please elevate rear of scooter

Fig. 10.2.125

3. Once the rear of the scooter has been elevated, fully remove rim studs (B)

Tightening torque for (B) rim studs is 25Nm.

Fig. 10.2.123

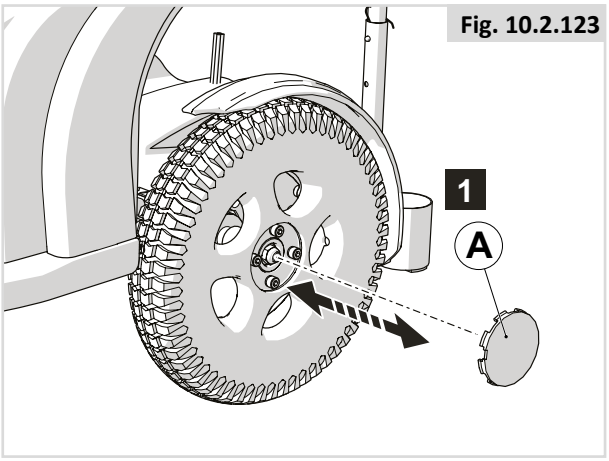


Fig. 10.2.124

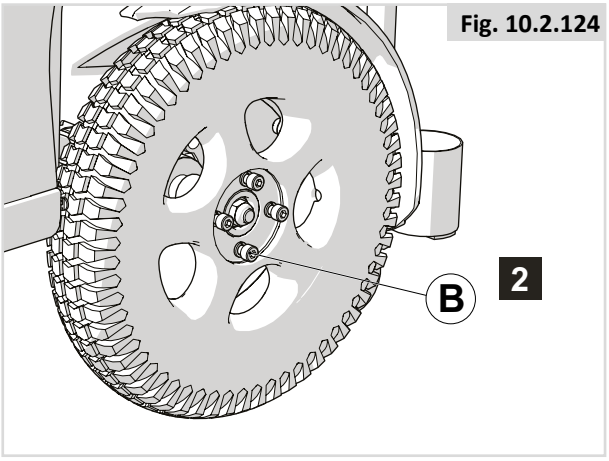


Fig. 10.2.125

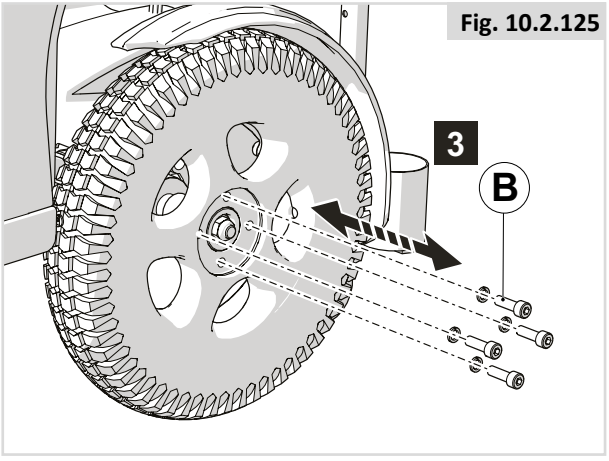


Fig. 10.2.126

4. Remove drive wheel (C)

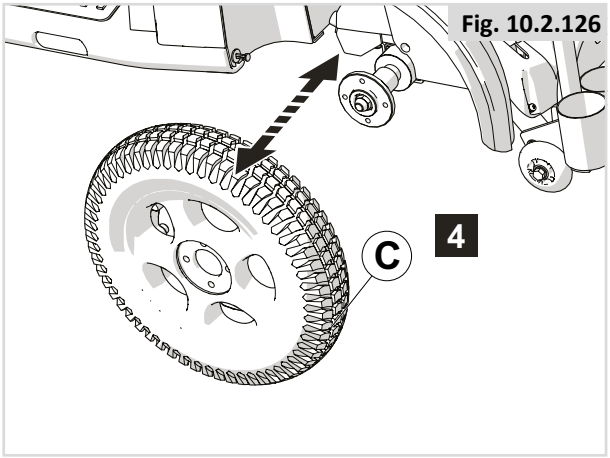


Fig. 10.2.126

Removal of transaxle washer - Plus only

1. Remove hub cover (A) using a flathead screwdriver (Fig. 6.2.43)

Fig. 10.2.127

2. Loosen central nut (B) by 2 turns using a 19mm socket

NOTE: After loosening central nut, please elevate rear of scooter

Tightening torque for (B) central nut is 55Nm.

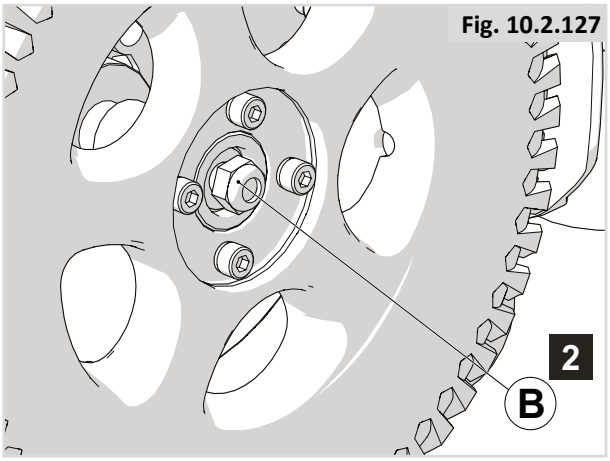


Fig. 10.2.127

Fig. 10.2.128

3. Once the rear of the scooter has been elevated, fully remove central nut (B)

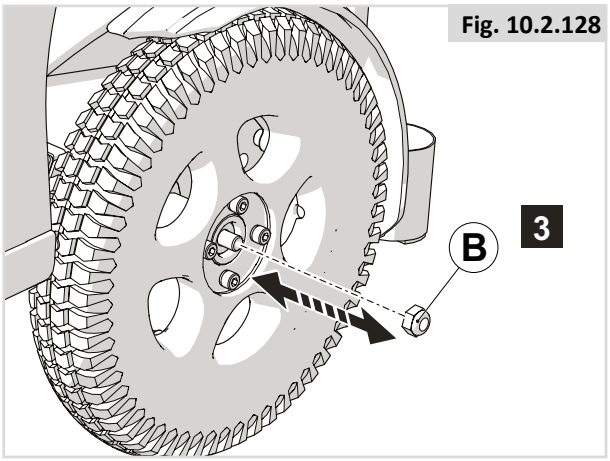


Fig. 10.2.128

Fig. 10.2.129

4. Remove transaxle washer (C)

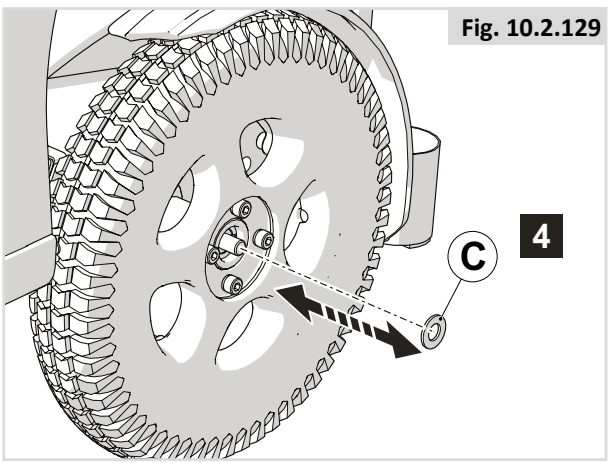
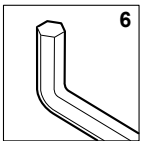


Fig. 10.2.129

Removal of inner tube

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the inner tube.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the drive wheel from the scooter.

NOTE: Before proceeding with this instruction, ensure that all the air has been released from the tyre.

Fig. 10.2.130

1. Remove cap and depress valve (A)

Fig. 10.2.131

2. Using a 6mm Hex Key, unscrew and remove 5 (B) bolts from the wheel rim

Tightening torque for (B) bolts is 19-20Nm and inflate tyres to 2.5 Bar (35 P.S.I) on the Plus and 2.0 Bar (28 P.S.I) on the XS

Fig. 10.2.132

3. Remove the two halves of the wheel rim (C) + (D) and then remove the inner tube located at (E)

Fig. 10.2.130

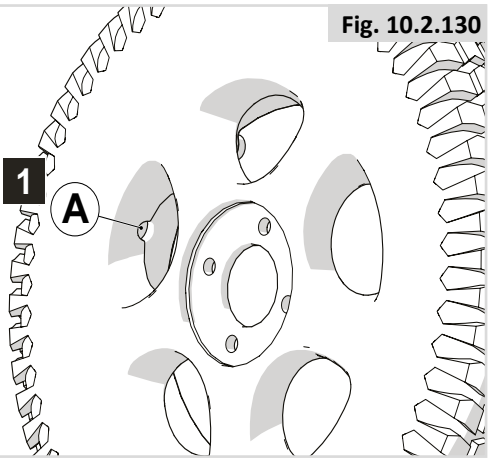


Fig. 10.2.131

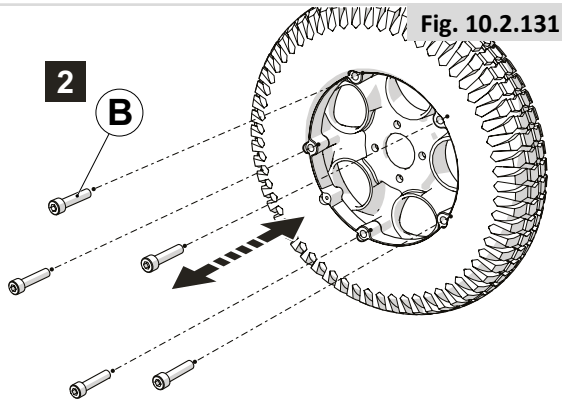
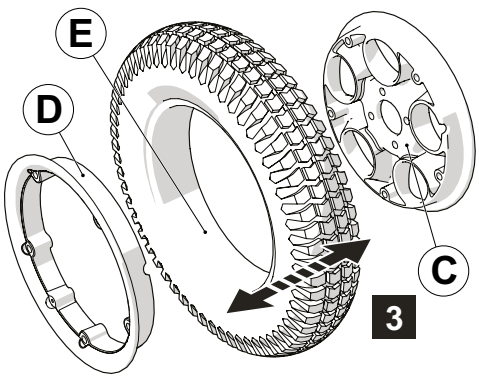


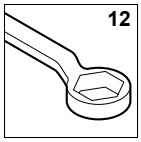
Fig. 10.2.132



Removal of speed sensor

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the speed sensor located on the disc brake caliper.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the

Fig. 10.2.133

1. Find connector labelled “Speed Sensor” (A) and disconnect

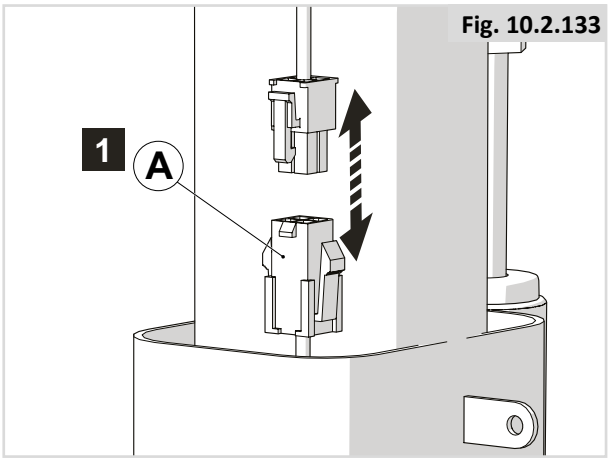


Fig. 10.2.133

Fig. 10.2.134

2. Feed the disconnected speed sensor connector (A) through the rubber gaiter and nose cone moulding

NOTE: To aid this process, lift the rubber gaiter to feed the connector through

NOTE: Release any cable ties as necessary

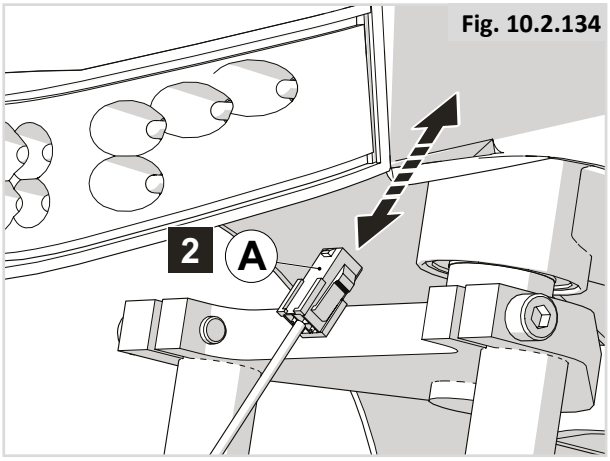


Fig. 10.2.134

Fig. 10.2.135

3. Using a 12mm spanner, unscrew and remove the nut (B) and lock washer (C) on the speed sensor nearest to the front wheel

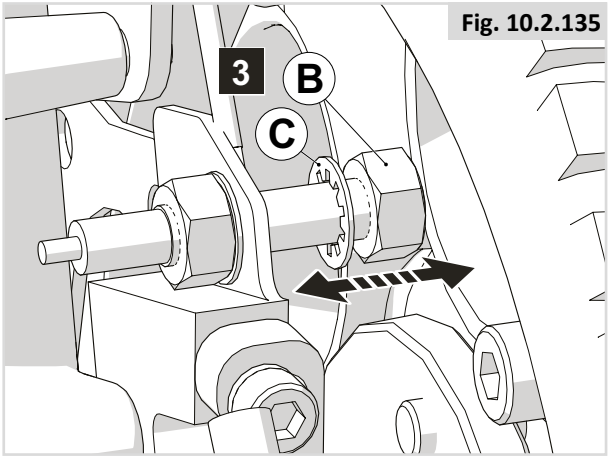


Fig. 10.2.135

Fig. 10.2.136

4. Once nut and washer have been removed, also remove the eyelet (D) on the speed sensor

Fig. 10.2.137

5. Remove speed sensor (E)

NOTE: When reinstalling, please make sure the distance between the speed sensor and magnet is betwen 5-8mm. Speed should also be checked to ensure accuracy due to tolerances. Once completed, retighten to 1.5Nm.

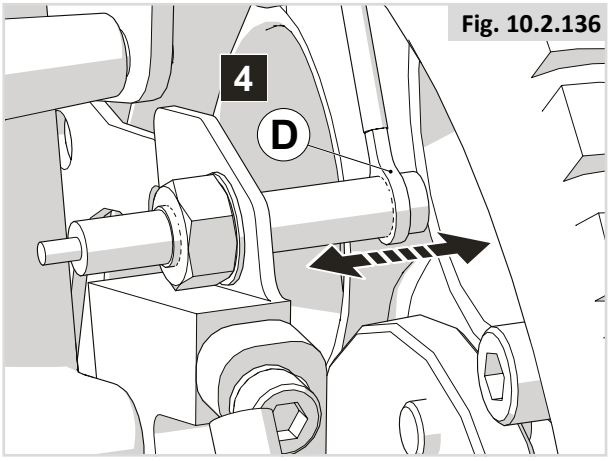


Fig. 10.2.136

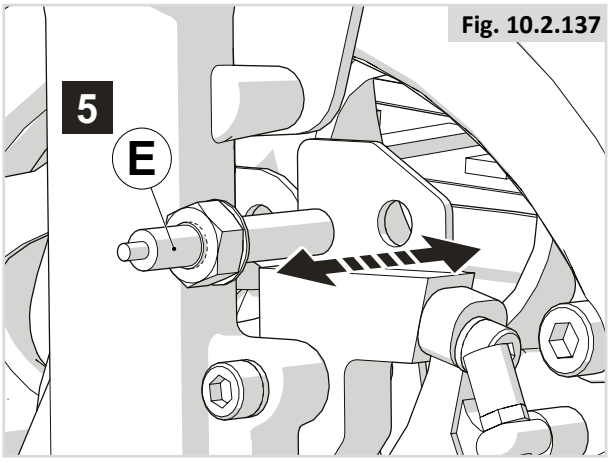


Fig. 10.2.137

Removal of 120A & 140A S-Drive

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the S-Drive.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat and battery cover shroud.

Tools used

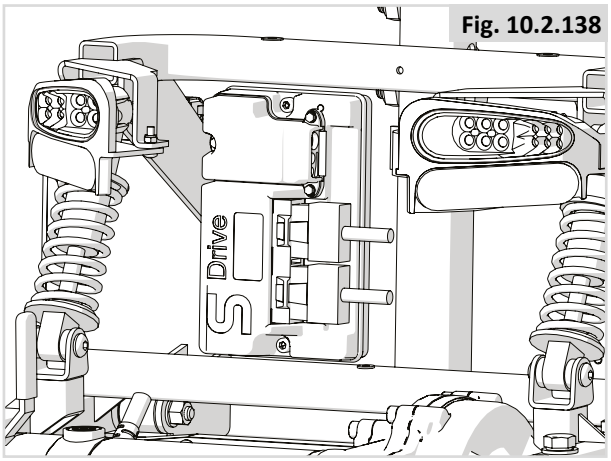


Fig. 10.2.138

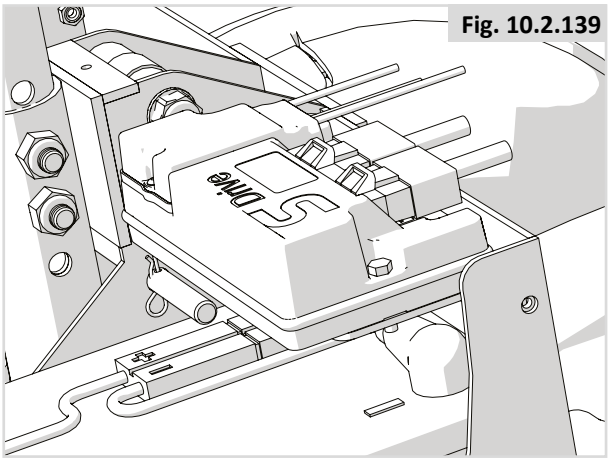


Fig. 10.2.139

Fig. 10.2.1.138 refers to the location of the 120A S-Drive on the Elite2 MINI only

Fig. 10.2.1.139 refers to the location of the 140A S-Drive on the Elite2 PLUS & XS

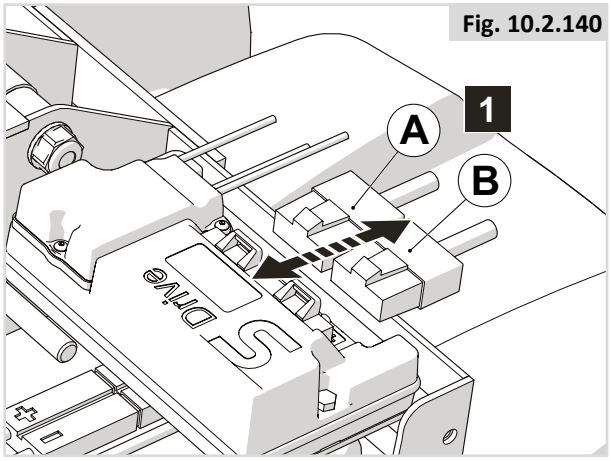


Fig. 10.2.140

Fig. 10.2.1140

1. Unplug the motor plug (A) and battery plug (B)

Fig. 10.2.141

2. Using the 2mm Hex Key, unscrew and remove 3 (C) bolts from the main loom cover (D). Then remove the main loom cover

Tightening torque for (C) bolts is 1Nm.

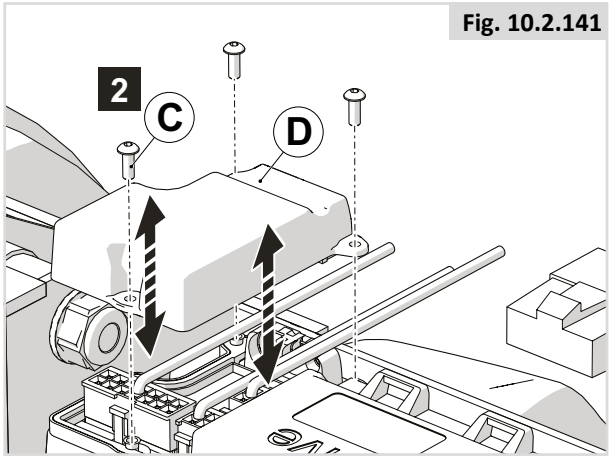


Fig. 10.2.141

Fig. 10.2.142

3. Disconnect main loom (E), charger plug (F) and brake plug (G)

Fig. 10.2.143

4. Remove gasket (H)

Fig. 10.2.144

5. Remove 2 (I) bolts and 2 (J) nuts from S-Drive using the 8mm spanner and 4mm Hex Key

NOTE: Be aware that the Earth connector is located on the left fixing

Tightening torque for (I) and (J) bolt is 3Nm.

Fig. 10.2.145

6. Remove S-Drive (K)

Fig. 10.2.142

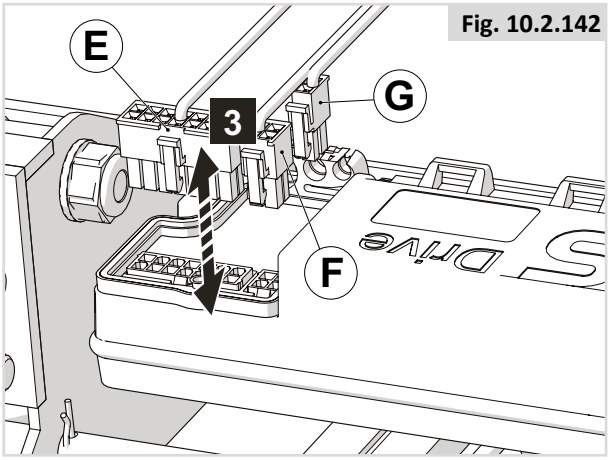


Fig. 10.2.143

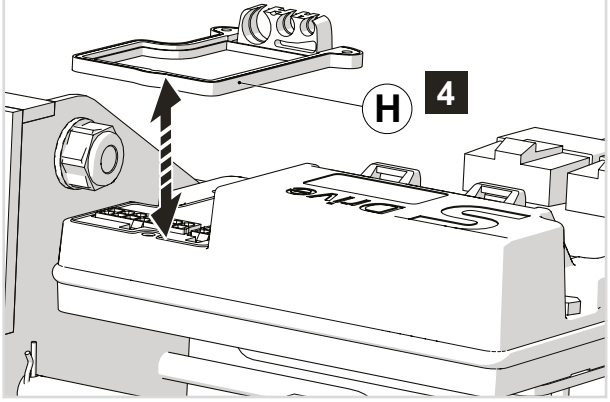


Fig. 10.2.144

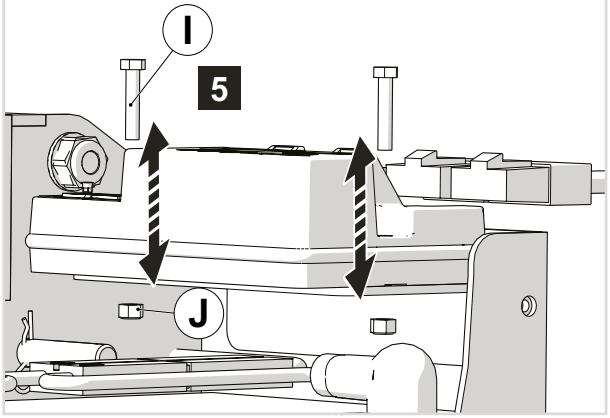
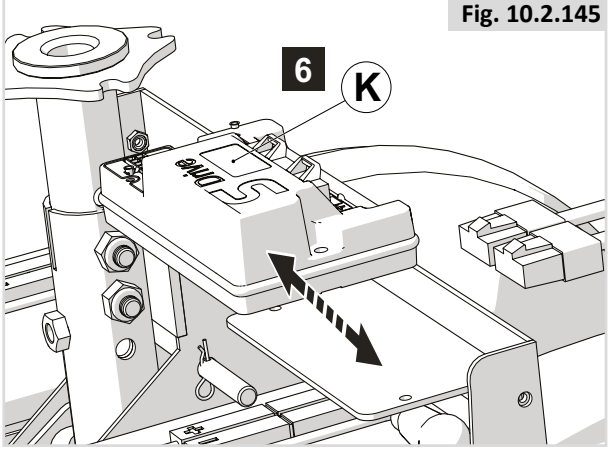


Fig. 10.2.145



Removal of 90A S-Drive (MINI only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the S-Drive.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat and battery cover shroud.

Tools used

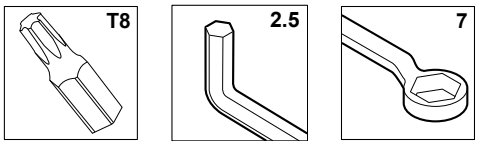


Fig. 10.2.146

1. Using the Torx T8 screwdriver, unscrew and remove 4 (A) bolts from the S-Drive casing

Tightening torque for (A) bolts is 0.8-1Nm.

Fig. 10.2.147

2. Unscrew and remove 2 (B) bolts and (C) nuts from either corner of the S-Drive unit

Tightening torque for (B) bolts is 3-4Nm.

3. Remove 3 (D) washers from (B) bolt

Fig. 10.2.148

4. Disconnect all connectors (E) from the S-Drive unit

NOTE:

- The red motor cable will be connected to the contact labelled “2” on the S drive.
- The black motor cable will be connected to the contact labelled “1” on the S drive.
- The red battery cable will be connected to the contact labelled “+” on the S drive.
- The black battery cable will be connected to the contact labelled “-” on the S drive.

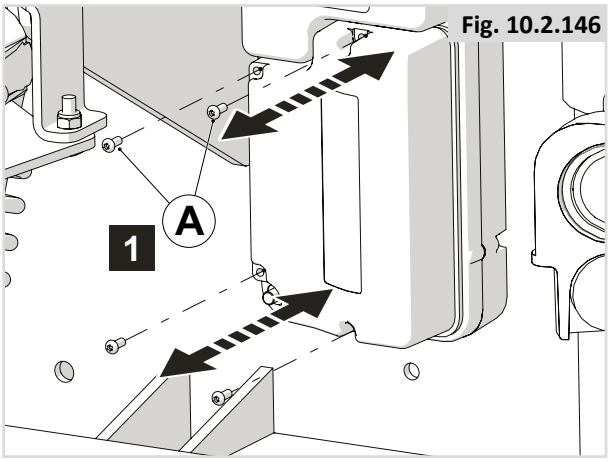


Fig. 10.2.146

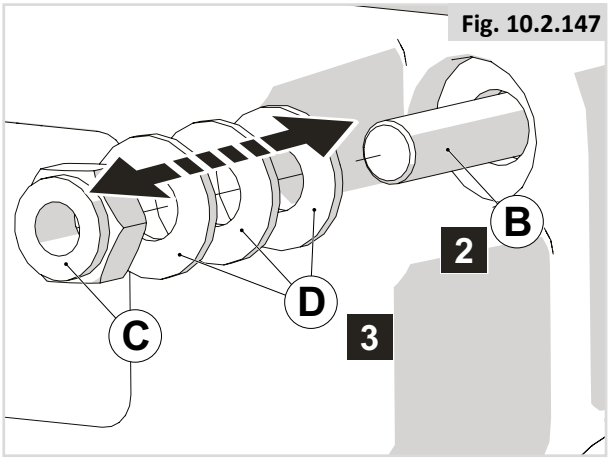


Fig. 10.2.147

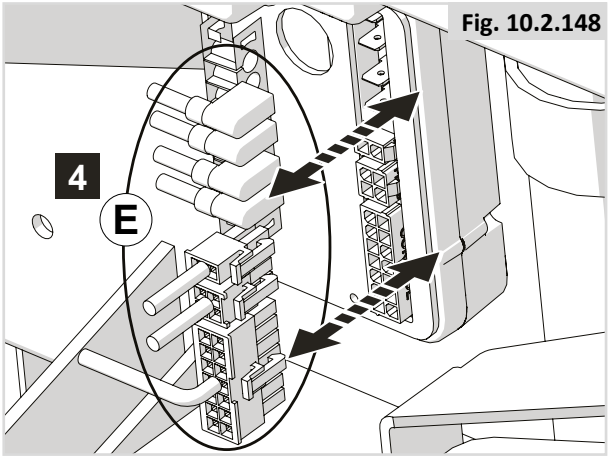
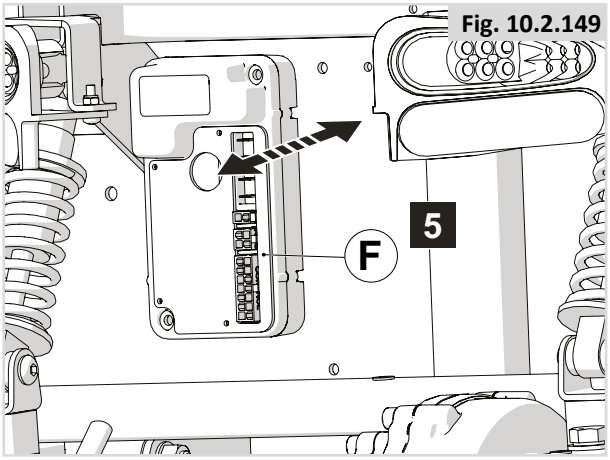


Fig. 10.2.148

Fig. 10.2.149

5. Remove S-Drive (F) from the scooter



Removal of Fleet Management Module (XS/Plus)

Preparation
Note! Switch the power off by turning the ignition key

Tools used

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing Fleet Management Module.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat and battery cover shroud.

Fig. 10.2.150

1. Remove tension from screw (A) located on left and right side of your Elite and remove screw (B).

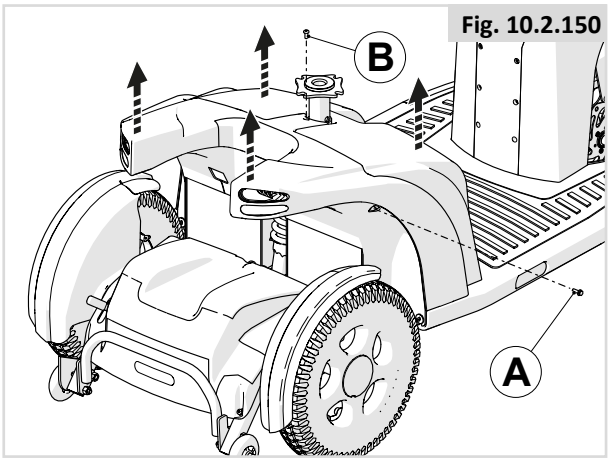


Fig. 10.2.150

Fig. 10.2.151

2. To access the Fleet management module, lift and move cowling to the side, Disconnect both white and black connectors, unwind screw A and remove Fleet Management Module from your Elite.

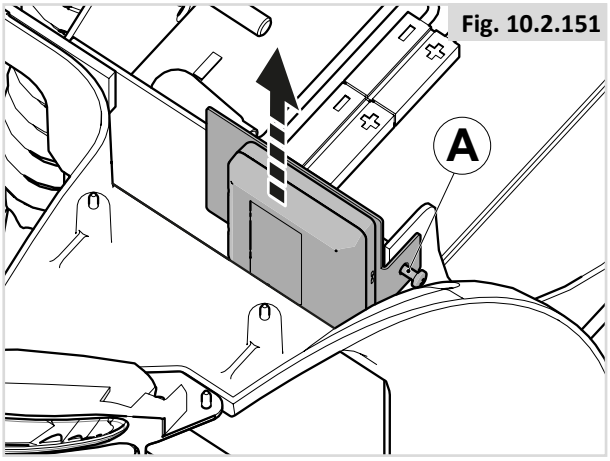


Fig. 10.2.151

Removal of Fleet Management Module (Mini)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing Fleet Management Module.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat and battery cover shroud.

Tools used

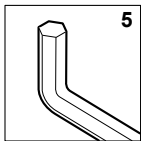


Fig. 10.2.152

1. Remove screws (A) and cowling

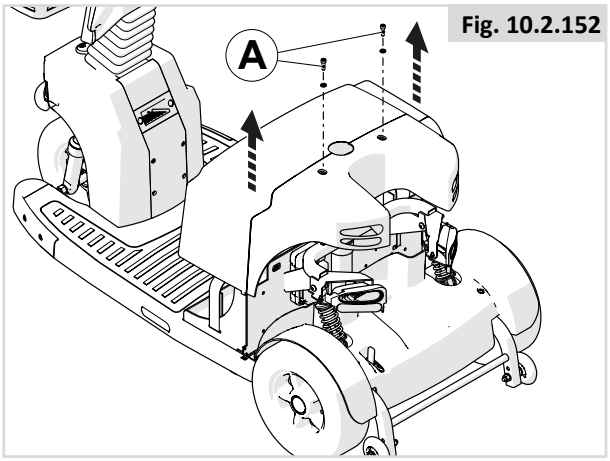


Fig. 10.2.152

Fig. 10.2.153

2. Disconnect both white and black connectors and remove Fleet Management Module.

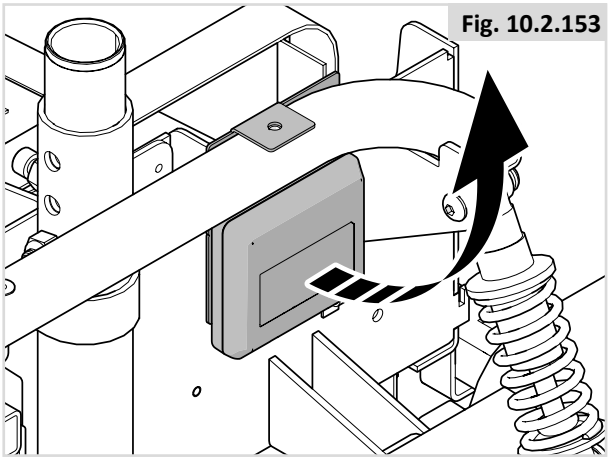
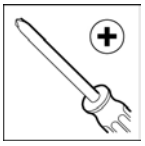


Fig. 10.2.153

Removal of motor cover shroud

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the motor cover shroud.
- Rebuild the scooter in reverse order once completed.

Fig. 10.2.154

1. Unscrew and remove 2 (A) screws and washers on each side of the motor cover shroud (B) using a crosshead screwdriver

NOTE: Please hand tighten upon reassembly

Fig. 10.2.155

2. Remove motor cover shroud (B)

Fig. 10.2.154

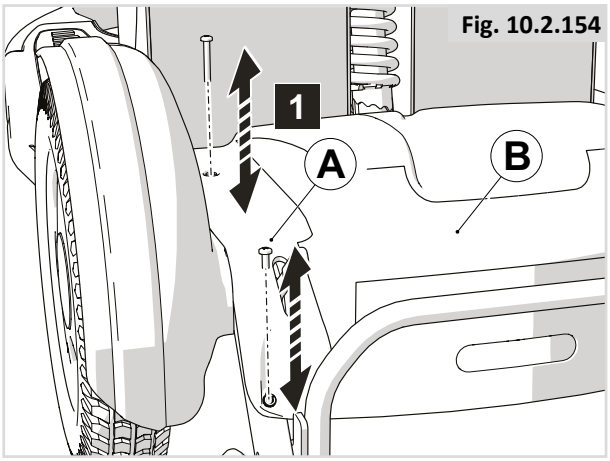
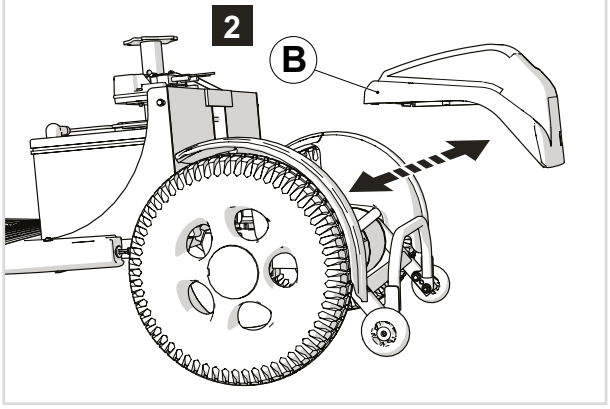


Fig. 10.2.155



Removal of anti tip wheels

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the anti tip wheels.
- Rebuild the scooter in reverse order once completed.

Tools used

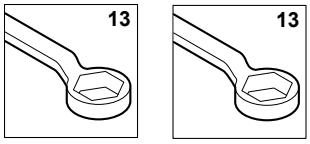


Fig. 10.2.156

1. Using a 13mm spanner and 13mm socket, undo the axle bolt (A) and remove nut (B) from the assembly

Tightening torque for (A) bolt is 18-20Nm.

Fig. 10.2.157

2. Remove anti tip wheel assembly (B) from the rear frame

Fig. 10.2.158

3. Fully withdraw axle bolt (A) from the assembly and remove all spacers (C) and washers (D)

Fig. 10.2.156

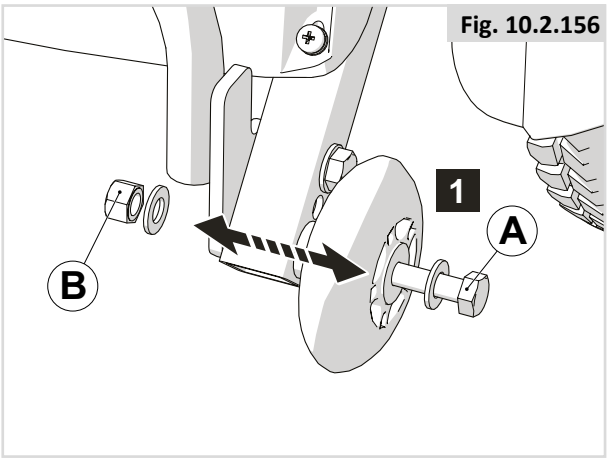


Fig. 10.2.157

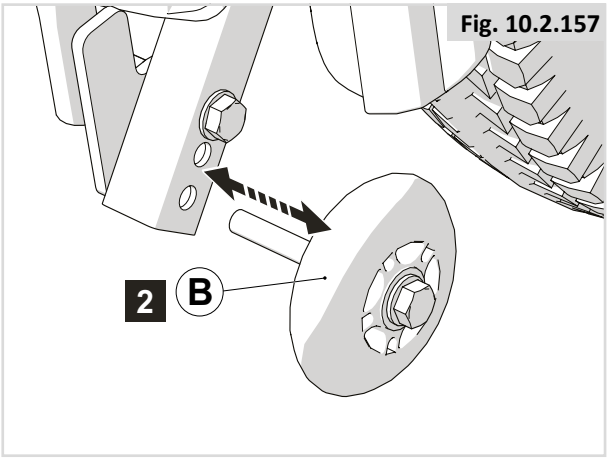
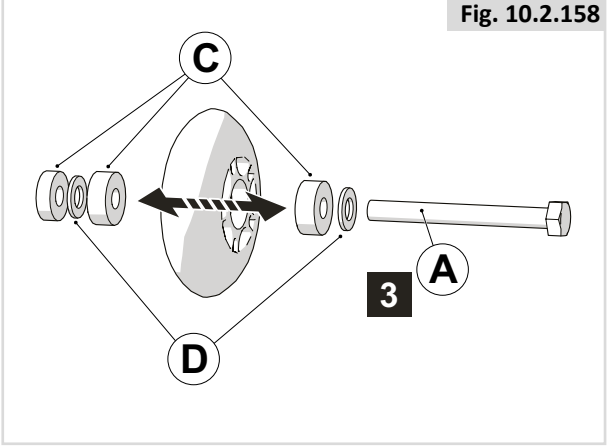


Fig. 10.2.158



Removal of rear bumper

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the rear bumper.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the anti tip wheels.

Tools used

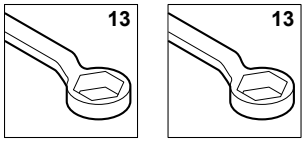


Fig. 10.2.159

1. Using a 13mm spanner and 13mm socket, unscrew and remove the bolt (A) and nut (B) on both sides of the rear bumper

Tightening torque for (A) bolt is 18-20Nm

Fig. 10.2.160

2. Remove rear bumper (C) from the rear frame

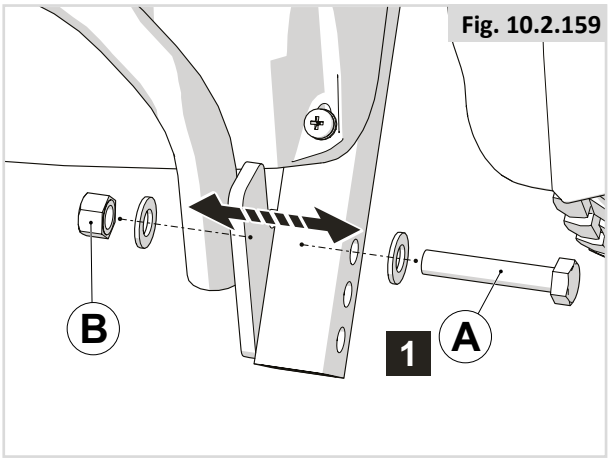


Fig. 10.2.159

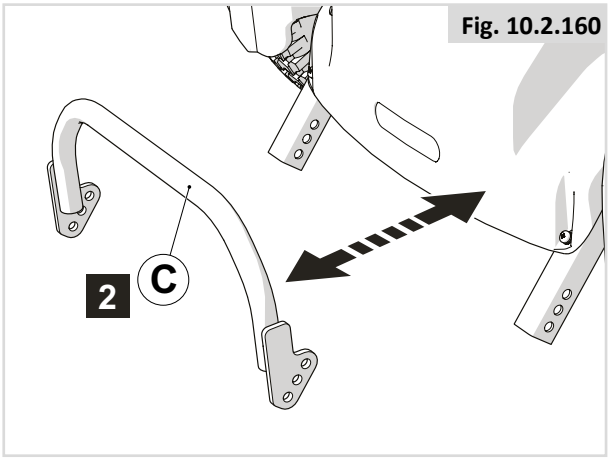
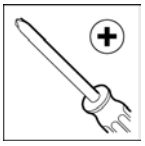


Fig. 10.2.160

Removal of rear mud guard

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the rear mud guard.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the drive wheel.

Fig. 10.2.161

1. Unscrew and remove 2 (A) screws located on the rear mud guard

Tightening torque for (A) screws is 3.5Nm.

Fig. 10.2.162

2. Remove rear mud guard (B)

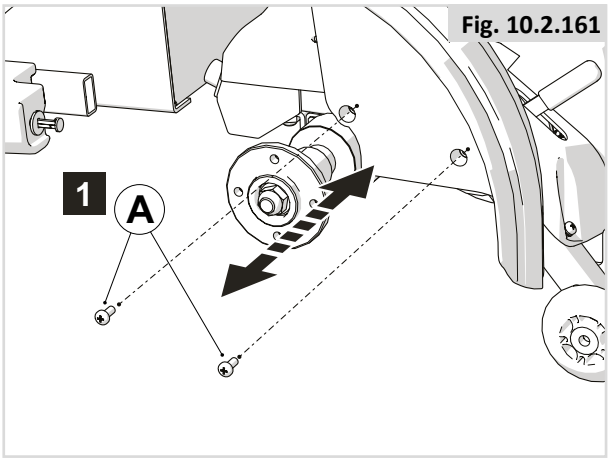


Fig. 10.2.161

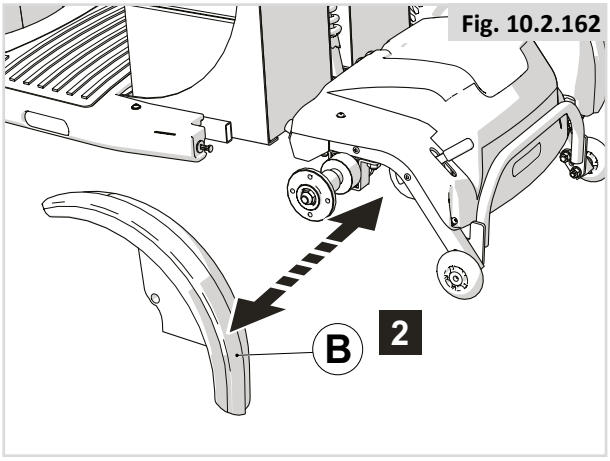


Fig. 10.2.162

Removal of transaxle

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the transaxle.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat, battery cover shroud and the motor cover shroud. You must also disconnect S-Drive and feed wires through the rear shroud.

Tools used

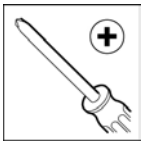


Fig. 10.2.163

1. Unscrew and remove (A) screw from the P-clip (B). Then remove P-clip

NOTE: Please hand tighten upon reassembly

NOTE: After removing the P-clip, please elevate rear of scooter

Fig. 10.2.164

2. Using a 17mm socket, unscrew and remove 4 (C) bolts from the rear chassis assembly

NOTE: Remove the rear 2 fixings first, then the front 2 fixings

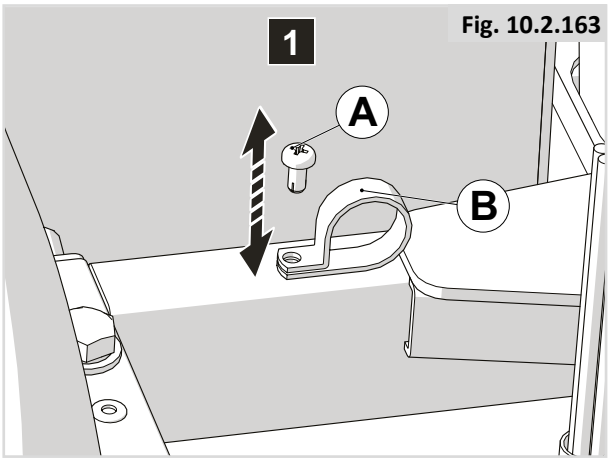
Tightening torque for (C) bolts is 20-25Nm.

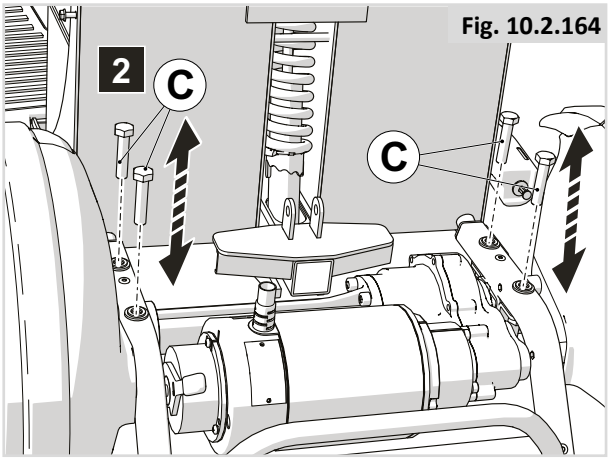
Fig. 10.2.165

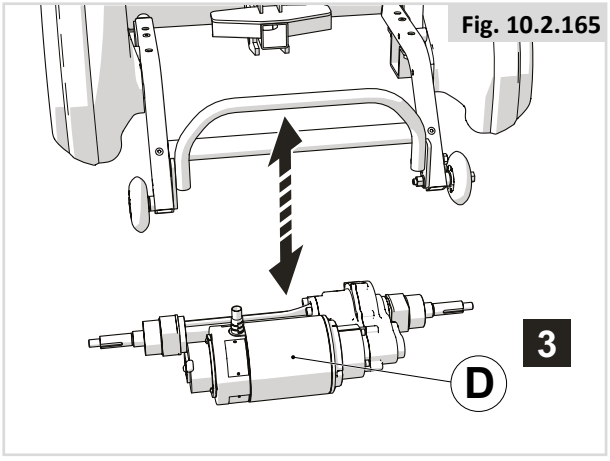
3. Transaxle assembly (C) will drop below the scooter

⚠ **WARNING!**

- Careful when removing and replacing (C). Heavy part.







Removal of motor from gearbox

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the motor from the gearbox.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat, battery cover shroud, motor cover shroud and transaxle. You must also disconnect S-Drive and feed wires through the rear shroud.

Tools used

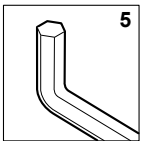


Fig. 10.2.166

1. Draw a line (A) on the motor and gearbox junction to assist with reassembly

Fig. 10.2.167

2. Using the 5mm Hex key, unscrew and remove 3 (B) bolts from gearbox

Tightening torque for (B) bolts is 9-10Nm.

Fig. 10.2.168

3. Separate motor (C) from gearbox (D)

⚠ WARNING!

- Careful when removing and replacing (C) + (D). Heavy part.

Fig. 10.2.166

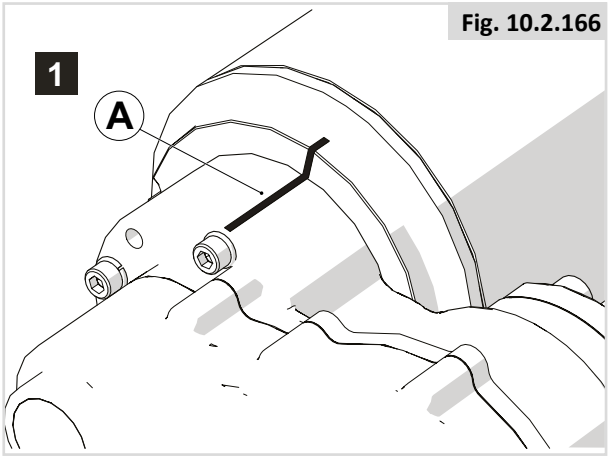


Fig. 10.2.167

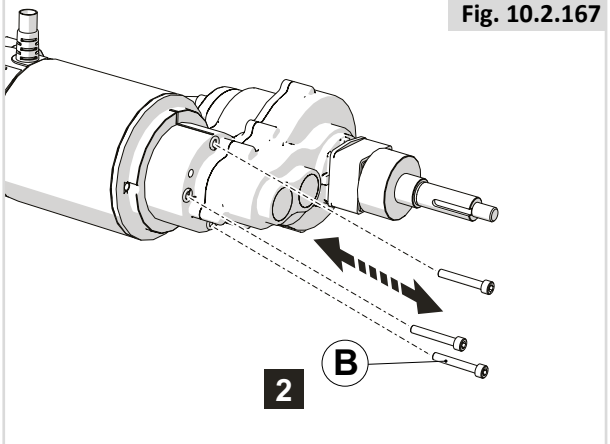
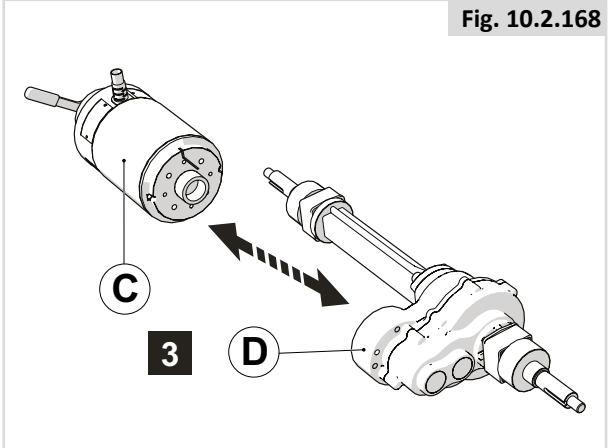


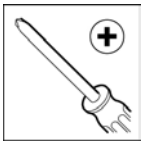
Fig. 10.2.168



Removal of brake from motor

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the brake from the motor.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat, battery cover shroud, rear shroud, motor cover shroud, transaxle and the motor from the gearbox. You must also disconnect S-Drive and feed wires through the rear shroud.

Fig. 10.2.169

1. Draw a line (A) on the motor and gearbox junction to assist with reassembly

Fig. 10.2.170

2. Unscrew and remove 3 (B) screws from brake flange

NOTE: Please hand tighten as tight as possible upon reassembly

Fig. 10.2.171

3. Separate brake (C) from motor (D)

NOTE: Upon reassembly, please note that the hex nut on the motor aligns with the hex-shaped slot on the brake

Fig. 10.2.169

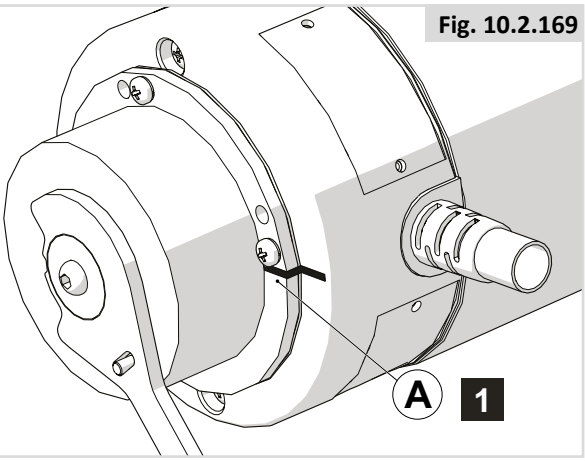


Fig. 10.2.170

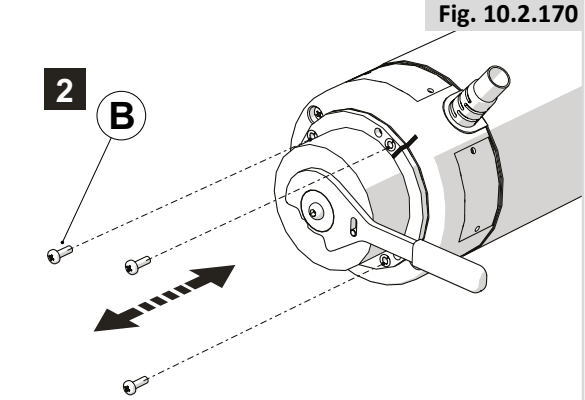
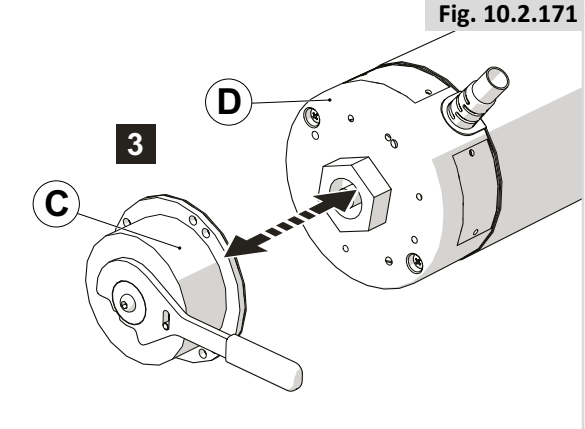


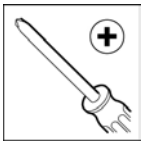
Fig. 10.2.171



Removal of motor brush (PLUS & XS only)

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the motor brush for inspection or for replacement.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat, battery cover shroud, rear shroud, motor cover shroud, transaxle and the motor from the gearbox. You must also disconnect S-Drive and feed wires through the rear shroud.

Fig. 10.2.172

1. Unscrew and remove 2 (A) screws from the plastic casing (B) located on the motor. Then, remove the plastic casing

NOTE: Please hand tighten upon reassembly

Fig. 10.2.173

2. Unscrew and remove (C) screw and 2 eyelets (D) from inside the motor brush assembly

NOTE: Please hand tighten upon reassembly

Fig. 10.2.174

3. Pull gold clip (E) aside and remove motor brush (F) from the motor assembly

Fig. 10.2.172

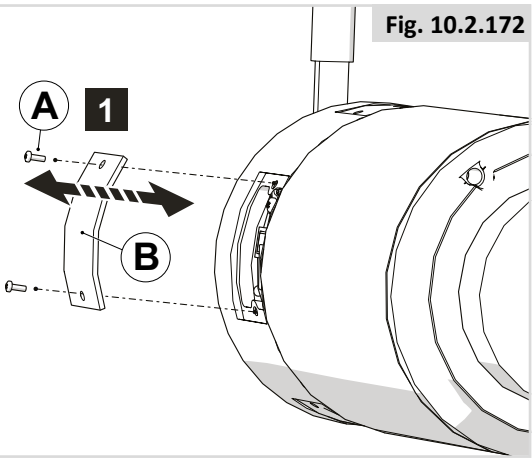


Fig. 10.2.173

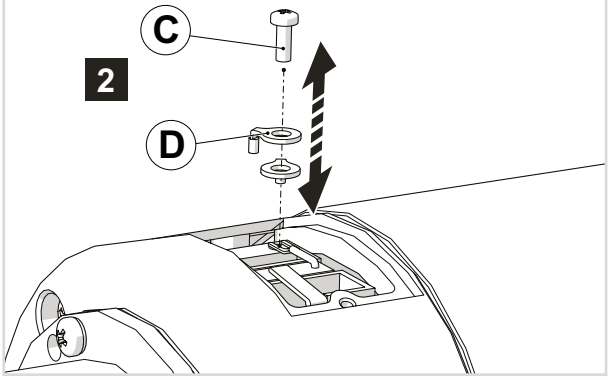
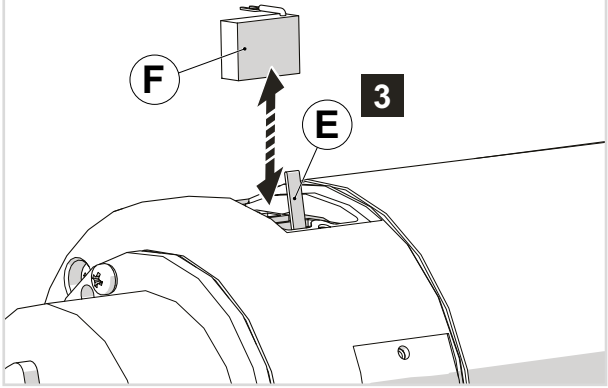


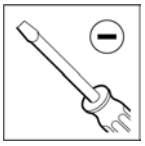
Fig. 10.2.174



Removal of motor brush (MINI Only)

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the motor brush for inspection or for replacement.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat,

Fig. 10.2.175

1. Unscrew and remove the motor brush cap (A)

Fig. 10.2.176

2. Lift out and remove the motor brush (B)

Fig. 10.2.175

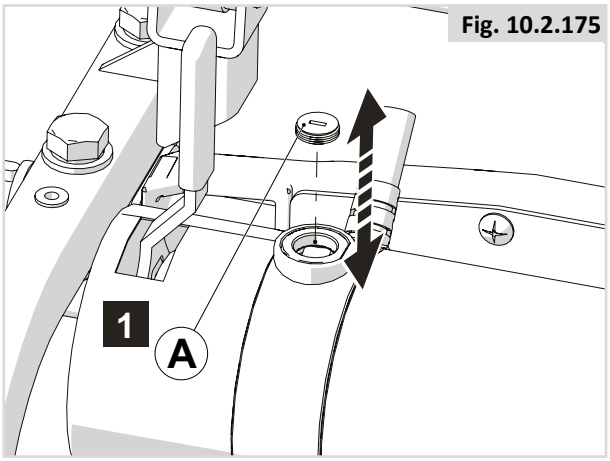
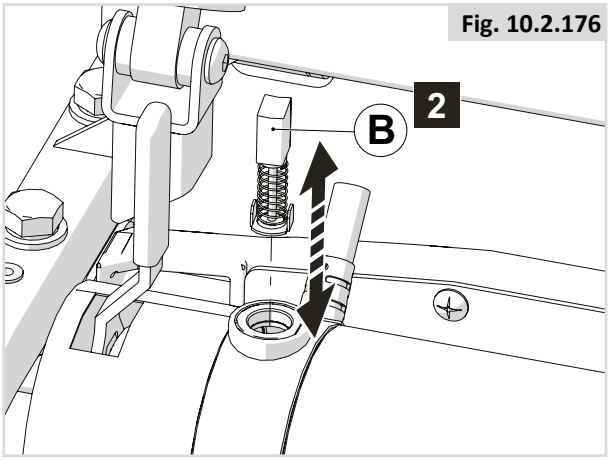


Fig. 10.2.176



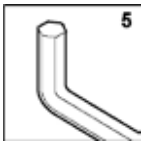
Removal of brake lever

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the brake lever.
- Rebuild the scooter in reverse order once completed.

Tools used



NOTE: Before continuing with this instruction, pull back the brake lever and remove brake cable from clip.

Fig. 10.2.177

1. Unscrew and remove 2 (A) screws and 2 (B) nuts from the brake lever

Tightening torque for (A) screws is 9-10Nm.

NOTE: Please disconnect panic switch from brake lever.

Fig. 10.2.178

2. Remove both halves of the brake lever (C) + (D) from the handlebar

Fig. 10.2.177

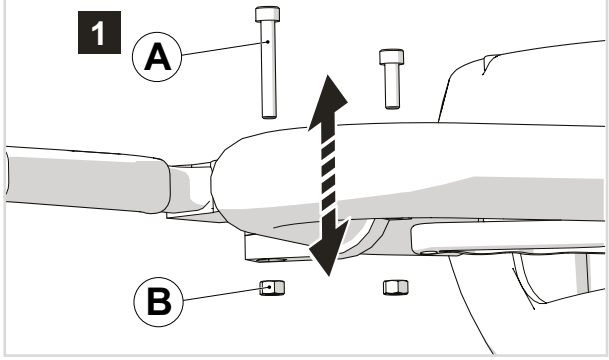
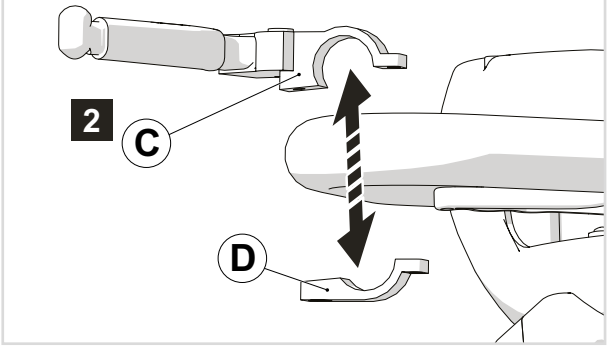


Fig. 10.2.178



Adjustment of tiller height

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for adjusting the tiller height.
- Rebuild the scooter in reverse order once completed.

Tools used

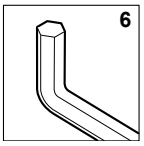
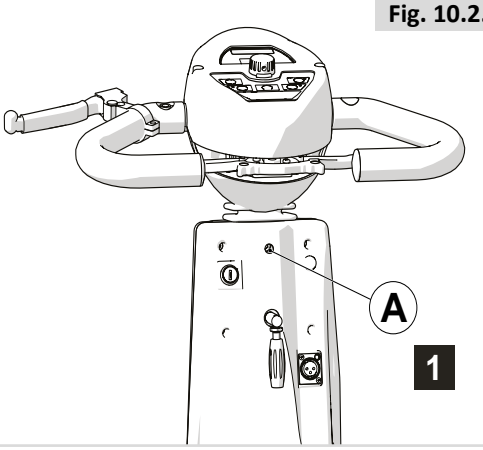


Fig. 10.2.179

1. Access height-retaining screw (A) through the tiller shroud. Loosen screw by one turn, adjust height and then re-tighten

Tightening torque for (A) screw is 19-20Nm.

Fig. 10.2.179



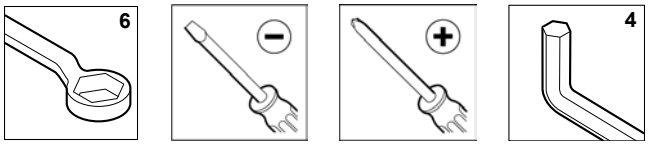
Removal of display unit and throttle pod (PLUS only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the display unit and the throttle pod
- Rebuild the scooter in reverse order once completed.

Tools used



Removal of display unit

Fig. 10.2.180

1. Using the flathead screwdriver, lever off the display caps (A)

2. Unscrew and remove 2 screws (B) from the display unit

NOTE: Please hand tighten upon reassembly

Fig. 10.2.181

3. Pull display unit (C) up and to the side as the main loom plug will still be connected

NOTE: Disconnect and feed through the Potentiometer connector as far as possible

Fig. 10.2.180

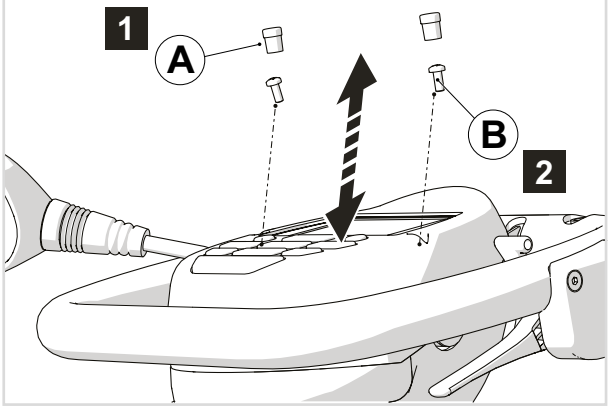
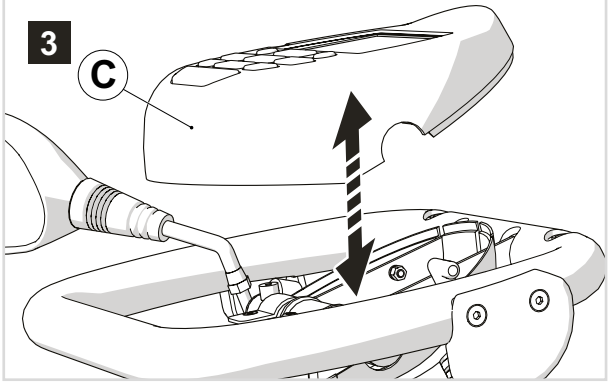


Fig. 10.2.181



Removal of throttle pod

NOTE: Remove display unit first

Fig. 10.2.182

1. Unscrew and remove 2 (A) bolts from the throttle casing

Tightening torque for (A) bolts is 5-6Nm.

2. Remove throttle casing (B)

Fig. 10.2.182

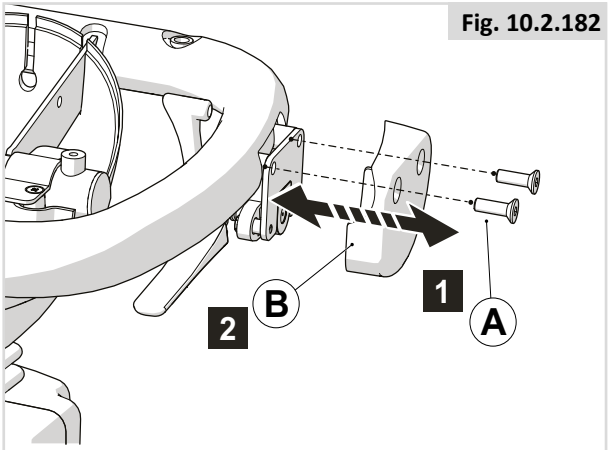


Fig. 10.2.183

3. Remove throttle assembly (C) from the handlebar, then remove the spacers attached (D)

Fig. 10.2.184

NOTE: Unscrew and remove the screw located next to the central fixing bar that contains the earth eyelet

4. Unscrew and remove 4 (E) screws from the welded plates on the central fixing bars

NOTE: Please hand tighten upon reassembly

NOTE: Push down pod and feed through the rest of the Potientiometer connector

Fig. 10.2.185

5. Unscrew and remove 2 (F) screws from the throttle assembly, then remove the throttle lever (G) also from the throttle assembly

NOTE: Please hand tighten upon reassembly

Fig. 10.2.186

6. Using a 6mm spanner, unscrew 2 (H) bolts from the throttle pod assembly

Tightening torque for (H) bolts is 2-3Nm.

7. Remove the spacers (I) and mounting plate (J) from the throttle pod assembly

Fig. 10.2.183

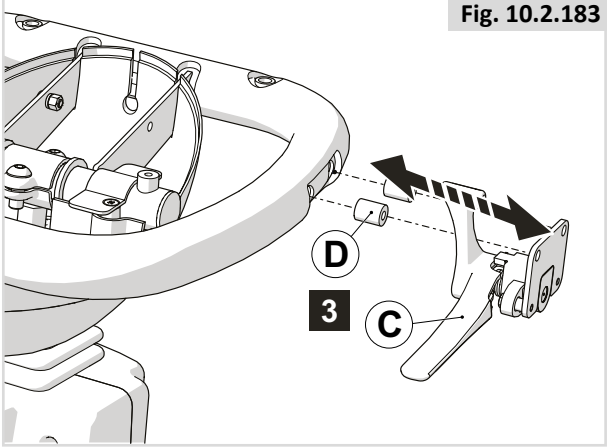


Fig. 10.2.184

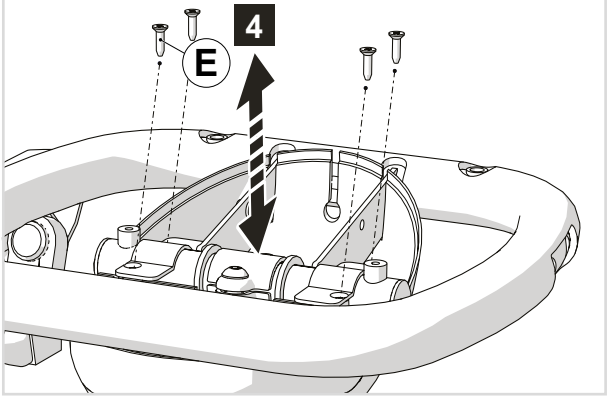


Fig. 10.2.185

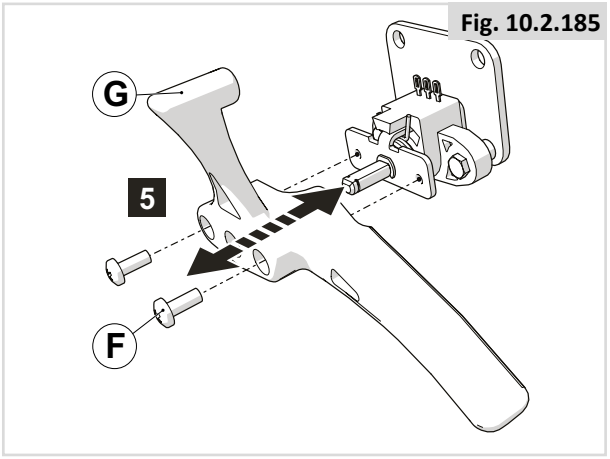
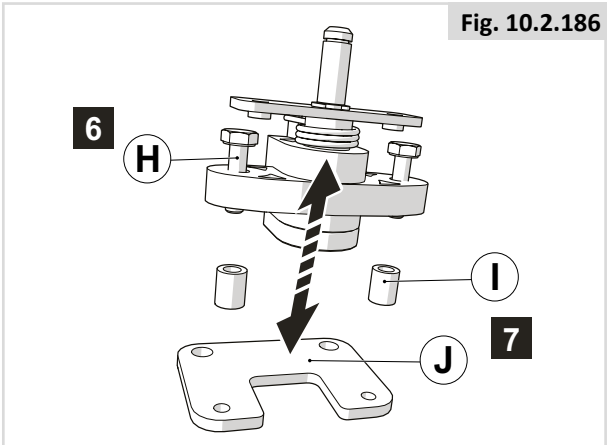


Fig. 10.2.186



Adjustment of delta steering wheel angle

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for adjusting the delta steering wheel angle.
- Rebuild the scooter in reverse order once completed.

Tools used

Fig. 10.2.187

1. Using a flathead screwdriver, lever up and remove the caps (A) from the display and then unscrew and remove 1 screw (B) per side of the display

NOTE: Please hand tighten upon reassembly

Fig. 10.2.188

2. Remove the display (C)

NOTE: Be aware that the wires will still leave the display connected, it just needs to be moved away from the delta steering wheel fixings.

Fig. 10.2.189

3. Loosen 2 central screws (D) by one turn, adjust and then retighten when appropriate angle has been achieved

Tightening torque for (D) screws is 15Nm.

Fig. 10.2.187

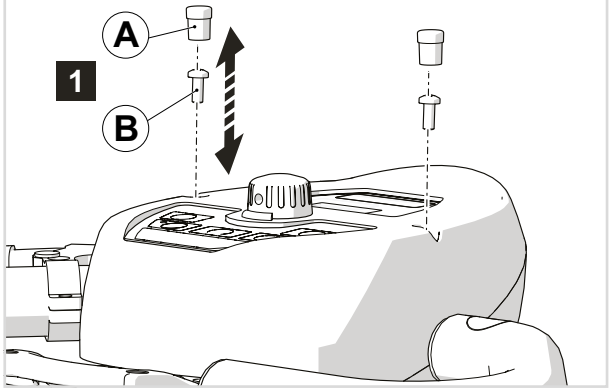


Fig. 10.2.188

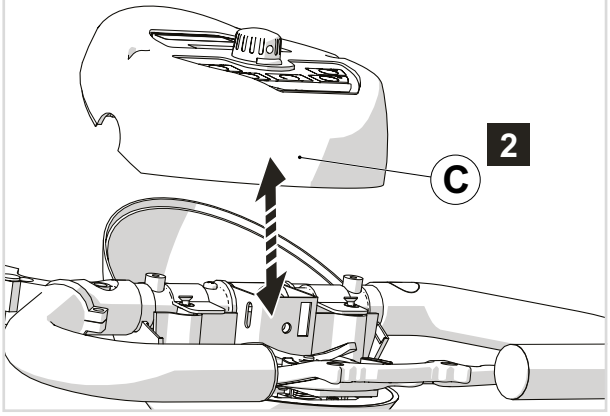
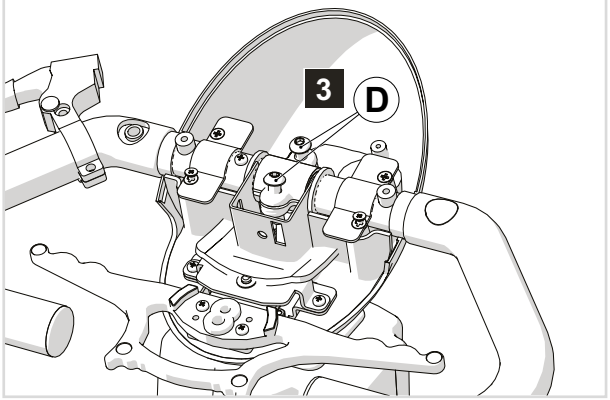


Fig. 10.2.189



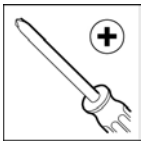
Removal of lower display pod

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the lower display pod.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the display unit.

Tools used



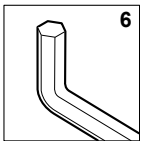


Fig. 10.2.190

1. Unscrew and remove 4 (A) screws from the central fixing bar

NOTE: Please hand tighten upon reassembly

Fig. 10.2.191

2. Unscrew and remove 2 (B) bolts and the central fixing bracket (C) from the central fixing bar

Tightening torque for (B) bolts is 15Nm.

NOTE: After this instruction, please disconnect all attached connectors within the lower display pod

Fig. 10.2.192

3. Remove steering wheel (D) from the display lower pod

Fig. 10.2.190

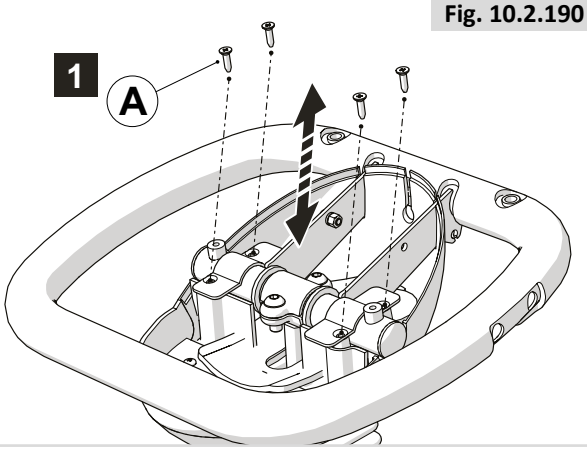


Fig. 10.2.191

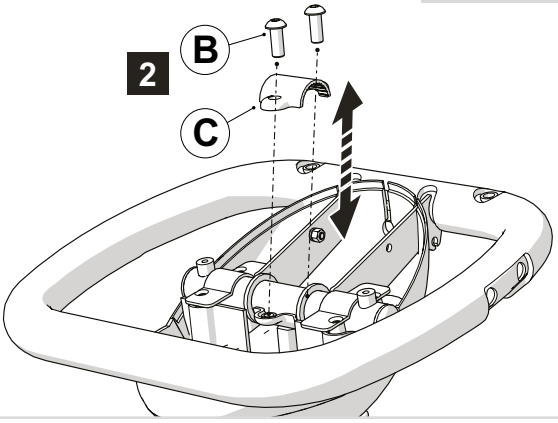


Fig. 10.2.192

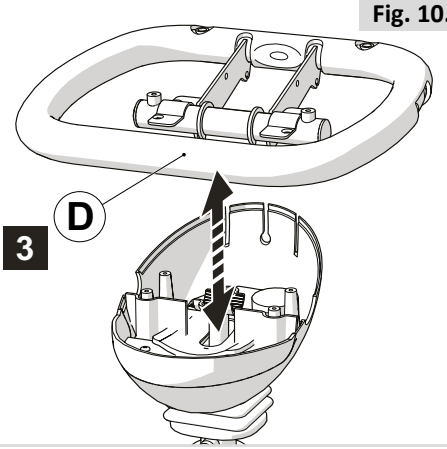
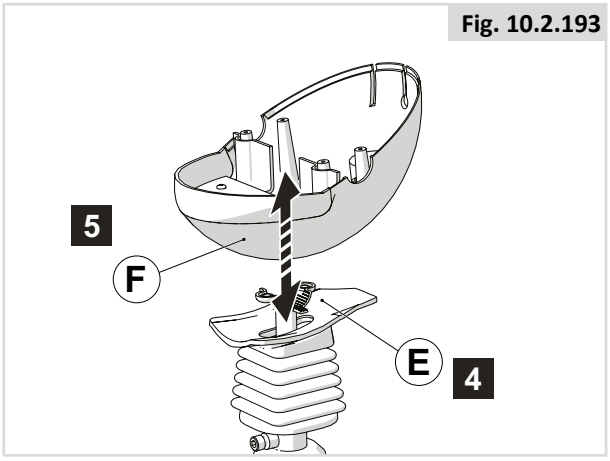


Fig. 10.2.193

4. Feed gaiter (E) and any other loose connectors through the bottom of the lower display pod (F)

5. The lower display pod can then be removed



Removal of tiller (PLUS Only)

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the tiller - PLUS only.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the seat and battery cover shroud.

Tools used

Fig. 10.2.194

1. Using a punch and hammer, remove the the press pin (A) through the rear tilller access hole

NOTE: Please turn front wheel to face forward before carrying out this instruction so that the holes are aligned

Fig. 10.2.195

2. Using a 13mm wrench and 10mm spanner, unscrew and remove the gas strut bottom fixing (B) & (C)

Tightening torque for (B) bolts is 19-20Nm.

NOTE: Cover over tiller arm to avoid components from falling in and becoming hard to retrieve

3. When removing the bolt, please be careful when removing the gas strut spacers (D)

Fig. 10.2.196

4. Unscrew and remove 2 (E) bolts and nuts from the base of the central steering tubes

NOTE: Please mark the position of the nut and bolt

Tightening torque for (E) bolts is 8-10Nm.

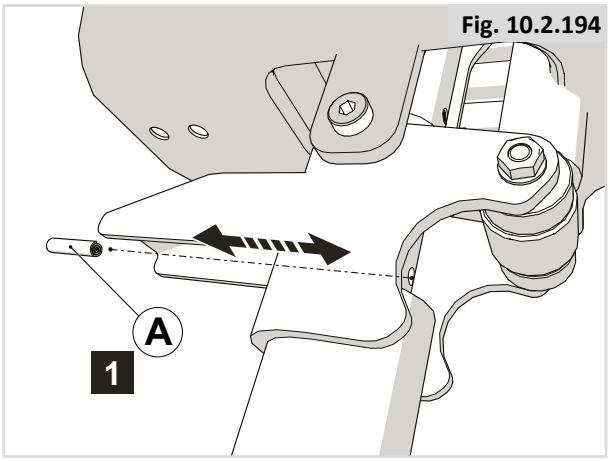


Fig. 10.2.194

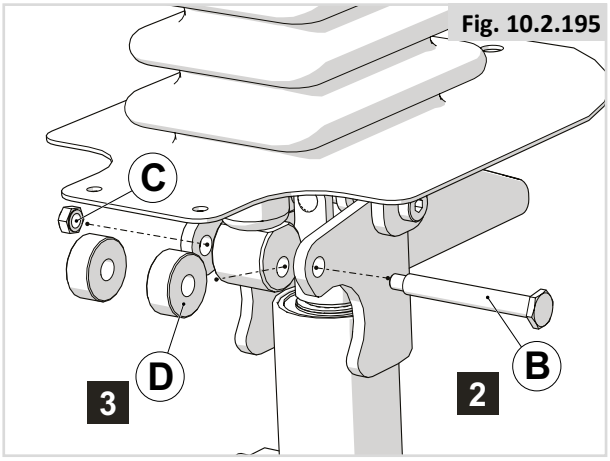


Fig. 10.2.195

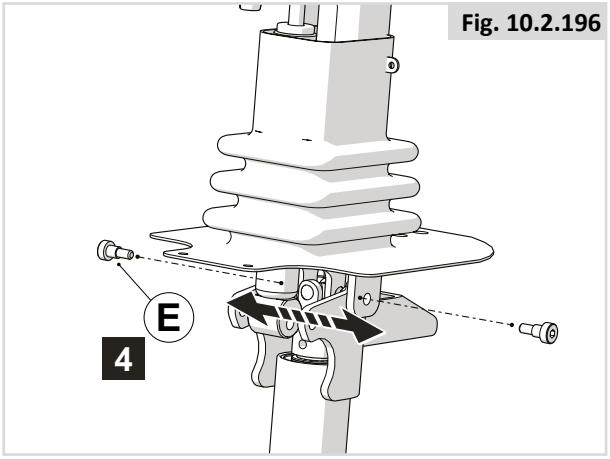


Fig. 10.2.196

NOTE: At this stage in the instruction, please remove the lower display pod

Fig. 10.2.197

5. Remove top rubber gaiter (F) from the tiller/steering column assembly

Fig. 10.2.198

6. Remove tiller/steering column assembly (G) of the scooter and then the bottom rubber gaiter (H)

Fig. 10.2.197

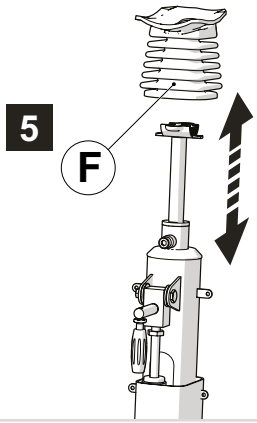
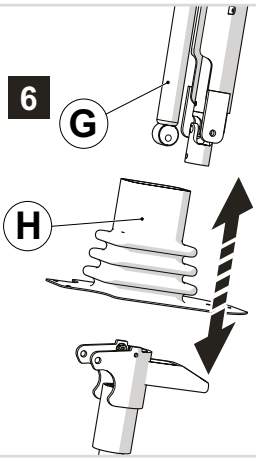


Fig. 10.2.198



Removal of speed selector dial

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instruction for removing the speed selector dial from the display unit.
- Rebuild the scooter in reverse order once completed.

Tools used

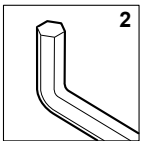


Fig. 10.2.199

1. Unscrew and remove (A) from inside the speed selector dial

NOTE: Please hand tighten upon reassembly

Fig. 10.2.200

2. Remove speed selector dial (B)

Fig. 10.2.199

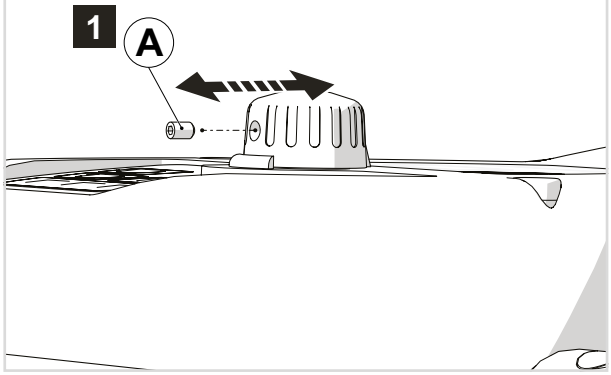
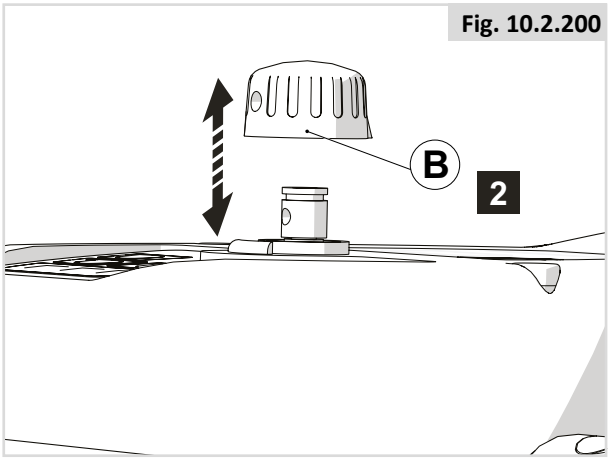


Fig. 10.2.200



Removal of wig wag

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the wig wag.
- Rebuild the scooter in reverse order once completed.

Tools used

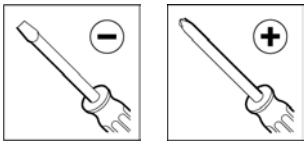


Fig. 10.2.201

1. Using a flathead screwdriver, lever up and remove the caps (A) from the display and then unscrew and remove 1 screw (B) per side of the display

NOTE: Please hand tighten upon reassembly

Fig. 10.2.202

2. Remove the display (C)

NOTE: Be aware that the wires will still leave the display connected.

Fig. 10.2.203

3. Unscrew and remove 2 (D) screws from the wig wag, then remove the wig wag (E) from the scooter

NOTE: Please hand tighten upon reassembly

Fig. 10.2.201

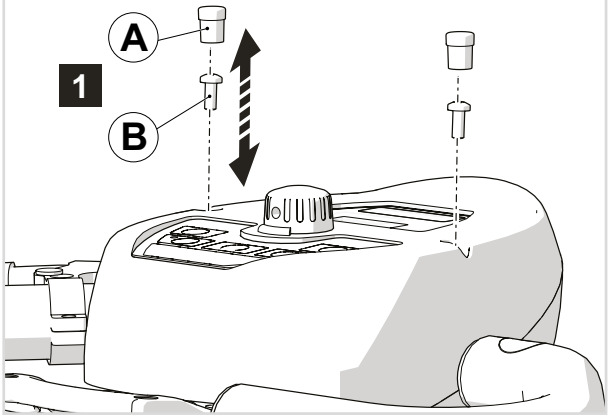


Fig. 10.2.202

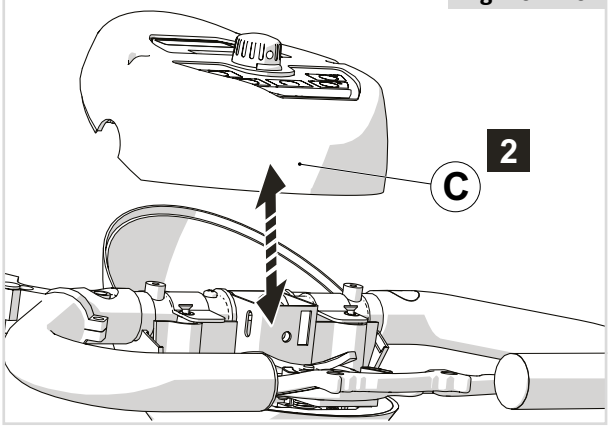
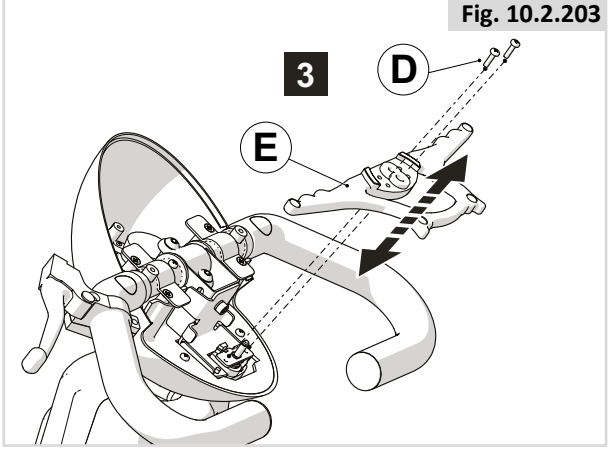


Fig. 10.2.203



Removal of mounting bracket

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for removing the mounting bracket.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the display and wig wag from the scooter.

Tools used

Fig. 10.2.204

1. Unscrew and remove (A) screw from the mounting bracket

Tightening torque for (A) screws is 5-6Nm.

Fig. 10.2.205

2. Remove mounting bracket (B)

Fig. 10.2.206

3. Unscrew and remove 2 throttle pod screws (C) from the mounting bracket

Tightening torque for (C) screws is 2Nm.

Fig. 10.2.204

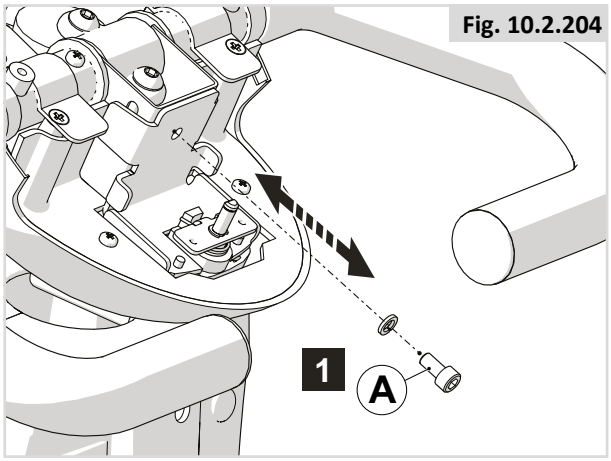


Fig. 10.2.205

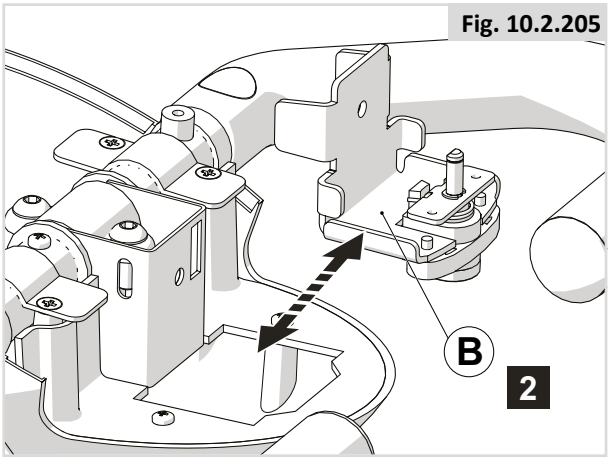


Fig. 10.2.206

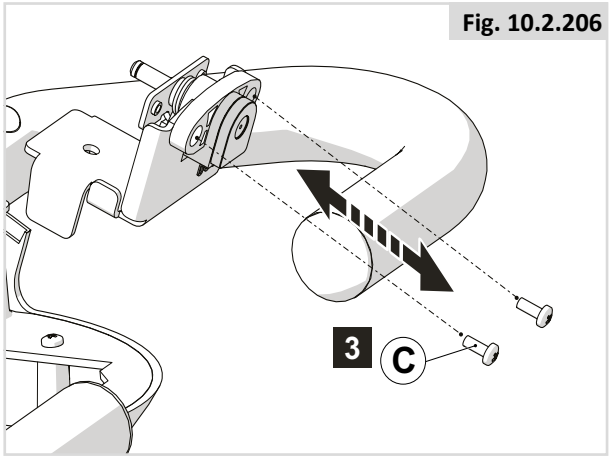
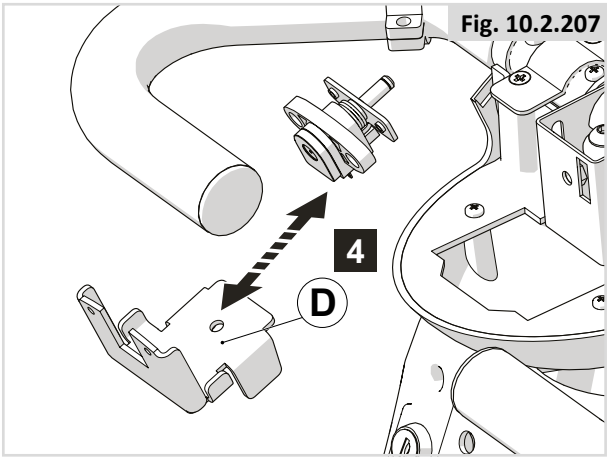


Fig. 10.2.207

4. Separate mounting bracket (D) from throttle pod



Attachment of new wig wag

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for replacing the wig wag.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the display, the existing wig wag and the mounting bracket.

Tools used

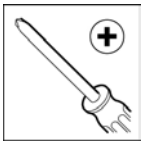


Fig. 10.2.208

1. Install bracket (A) around throttle pod

Fig. 10.2.209

2. Screw in 2 (B) screws to secure bracket in place

NOTE: Please hand tighten upon reassembly

Fig. 10.2.210

3. Unscrew and remove 2 (C) screws from the control panel

NOTE: Please hand tighten upon reassembly

Fig. 10.2.208

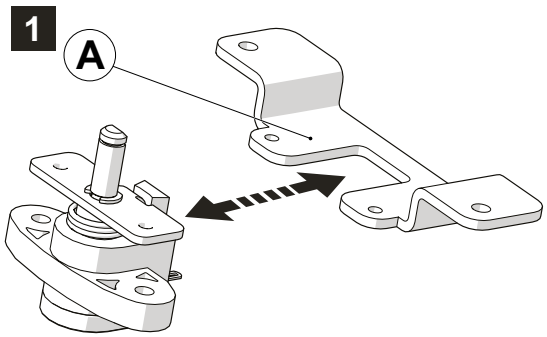


Fig. 10.2.209

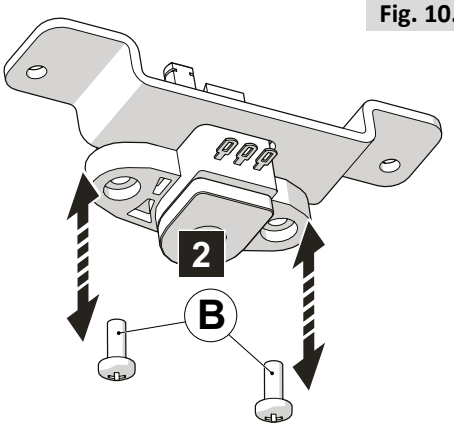


Fig. 10.2.210

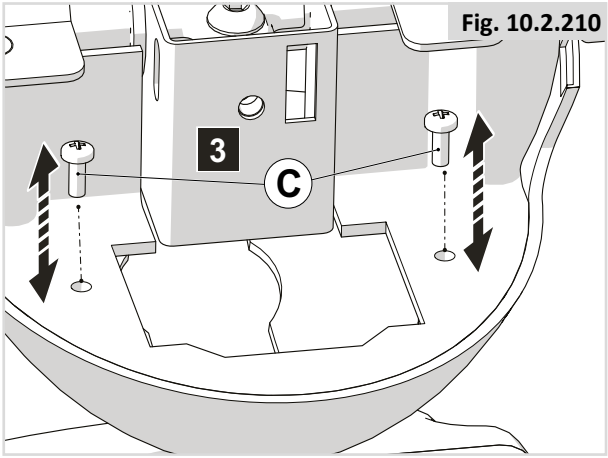


Fig. 10.2.211

4. Install the bracket and mounting bracket assembly in the control panel, and then screw in 2 (D) screws to install the mounting extension plate

NOTE: Please hand tighten upon reassembly

Fig. 10.2.212

5. Attach the Igus bush (E), and place the other bracket segment (F) onto the assembly

Fig. 10.2.213

6. Screw in 2 (C) screws to secure the two halves of the assembly together

NOTE: Please hand tighten upon reassembly

Fig. 10.2.214

7. Reattach wig wag using 2 (G) screws as instructed in the diagram (the top left and the bottom right holes in the wig wag are the only two holes that are possible to attach the wig wag to the mounting bracket)

NOTE: Please hand tighten upon reassembly

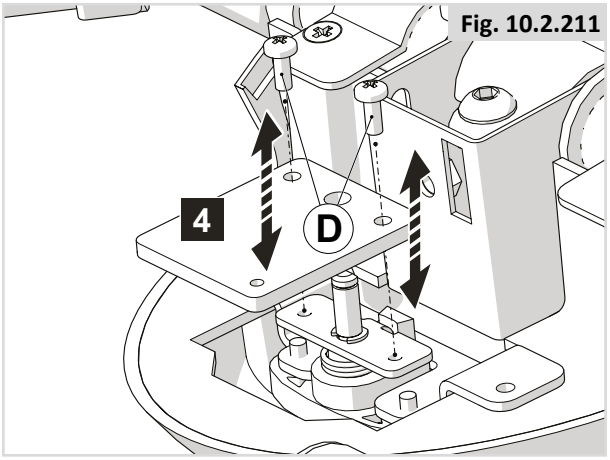


Fig. 10.2.211

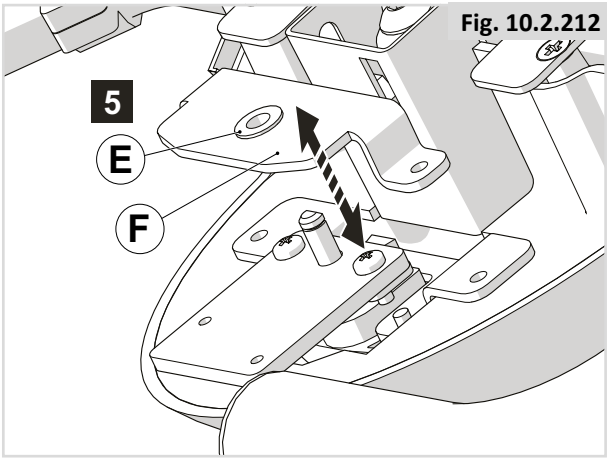


Fig. 10.2.212

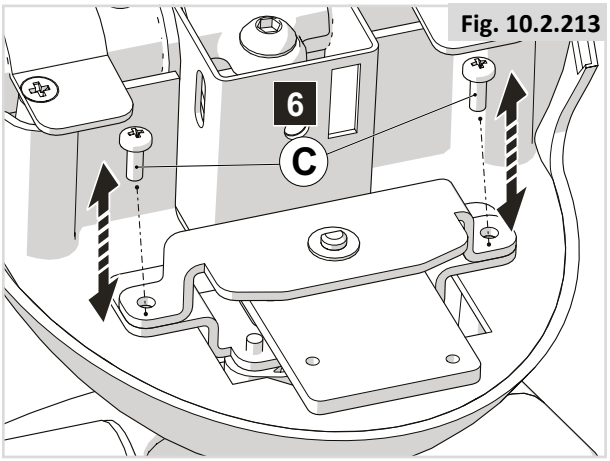


Fig. 10.2.213

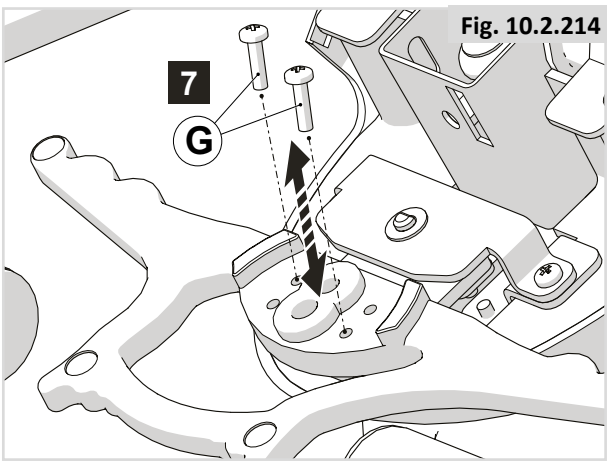


Fig. 10.2.214

Maintenance of speed reduction device - switch contact plate

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for maintaining or replacing the speed reduction device.
- In order to complete this, you must first remove the nose cone moulding.
- This instruction is only for repair or maintenance on the device (can't be retrofitted).

Tools used

Fig. 10.2.211

1. Unscrew and remove 2 (A) screws on the angle bracket

Tightening torque for (A) screws is 9-10Nm.

Fig. 10.2.212

2. Unscrew and remove 2 bolts (B) and nuts (C) from the switch contact plate (D)

Tightening torque for (B) bolts is 9-10Nm.

Fig. 10.2.213

3. Remove switch contact plate (D) from main assembly

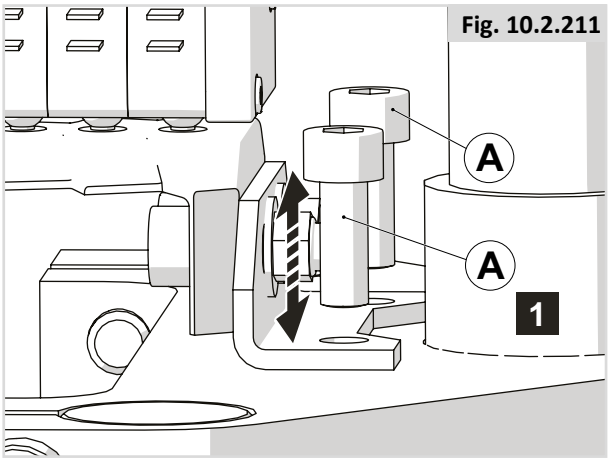


Fig. 10.2.211

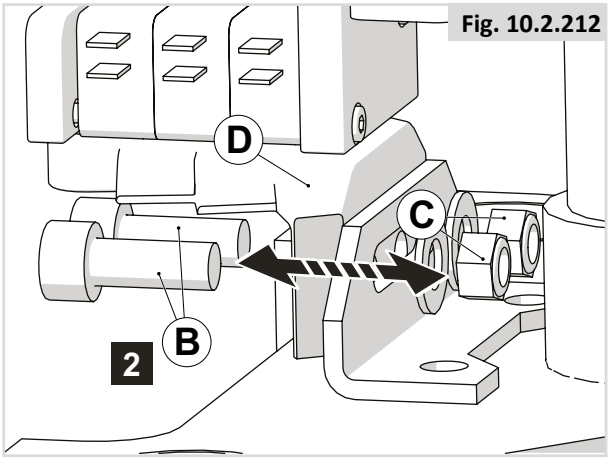


Fig. 10.2.212

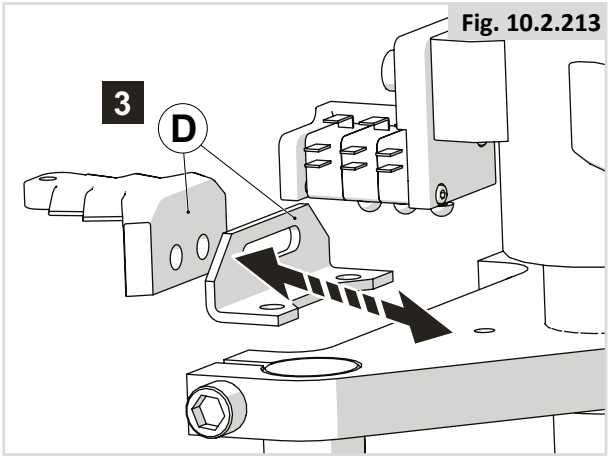


Fig. 10.2.213

TO REINSTALL PLEASE FOLLOW THESE INSTRUCTIONS:

Fig. 10.2.214

1. Install 2 (A) screws on the angle bracket

Tightening torque for (A) screws is 9-10Nm.

Fig. 10.2.215

2. Install 2 bolts (B) and nuts (C) to the switch contact plate (D)

NOTE: When reinstalling, please initially leave screws loose until setting screw has been aligned.

Tightening torque for (B) bolts is 9-10Nm.

Fig. 10.2.216

3. Insert setting screw (E) to align centre point of the switch contact plate with the microswitch assembly (F)

Fig. 10.2.217

4. Before tightening (B) and (C), please turn wheel and tiller straight ahead so that the steering device is set straight.

Fig. 10.2.214

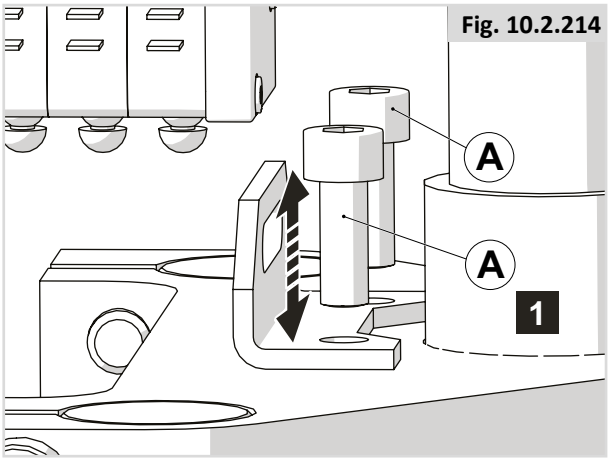


Fig. 10.2.215

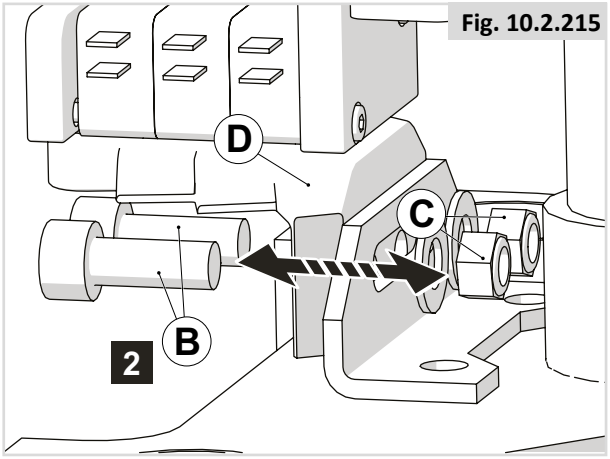


Fig. 10.2.216

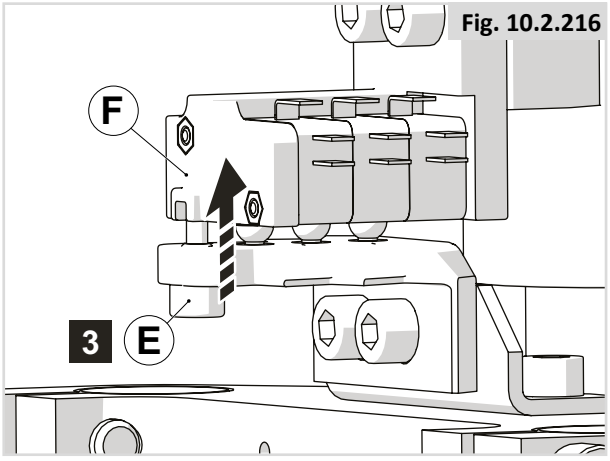


Fig. 10.2.217

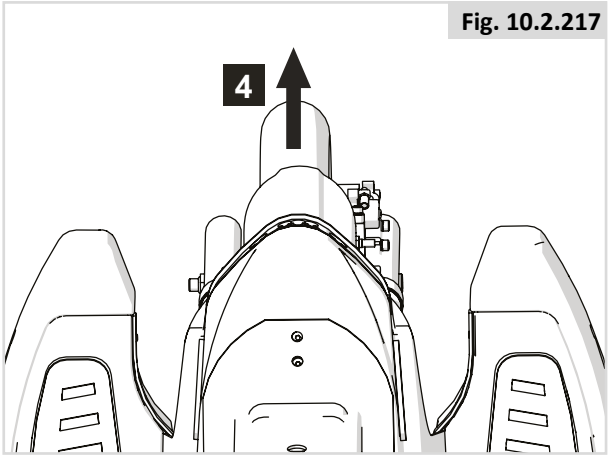


Fig. 10.2.218

5. Insert a 4mm Hex key (G) to make sure that the gap between the contact plate and the microswitch assembly is equal on both sides.

Fig. 10.2.219

6. Once all aligned, tighten (B) to 9-10Nm.

NOTE: After reinstalling speed reduction device, remove setting screw before using the scooter. Otherwise, the scooter will not turn.

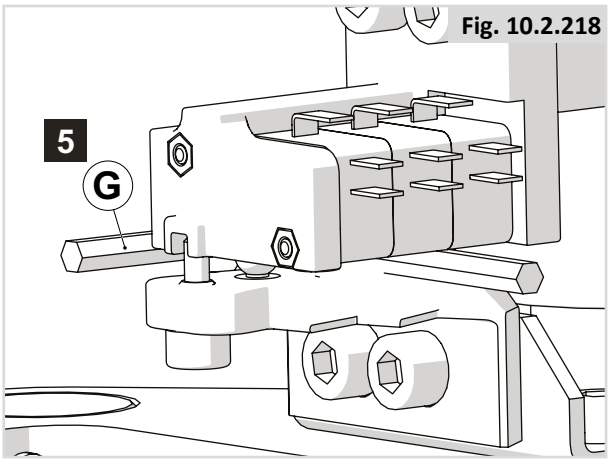


Fig. 10.2.218

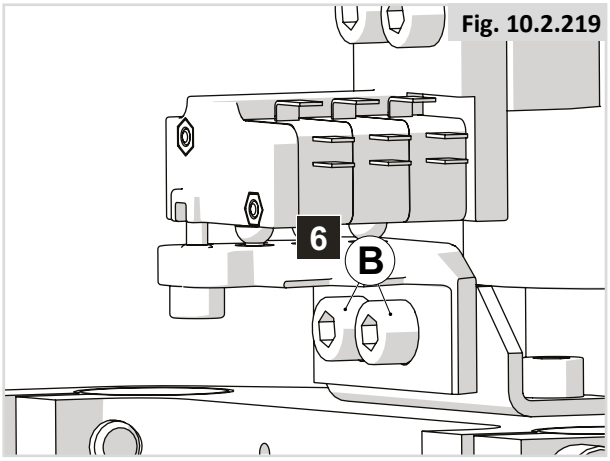
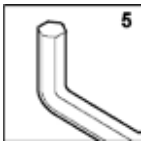


Fig. 10.2.219

Maintenance of speed reduction device - microswitch assembly

Preparation
Note! Switch the power off by turning the ignition key

Tools used



Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for maintaining or replacing the speed reduction device.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the nose cone moulding.
- This instruction is only for repair or maintenance on the device (can't be retrofitted).

Fig. 10.2.220

1. Unscrew and remove 2 (A) screws from the microswitch assembly (B)

NOTE: When reinstalling, please initially leave screws loose until setting screw has been aligned.

Tightening torque for (A) screws is 9-10Nm.

Fig. 10.2.221

2. Remove and discard old microswitch assembly

NOTE: Rebuild the scooter in reverse order once completed. Follow next steps when reinstalling.

Fig. 10.2.222

3. Insert setting screw (D) to align centre point of the switch contact plate (D) with the microswitch assembly (F)

4. Once all aligned, tighten (A) to 9-10Nm.

NOTE: After reinstalling speed reduction device, remove setting screw before using the scooter. Otherwise, the scooter will not turn.

Fig. 10.2.220

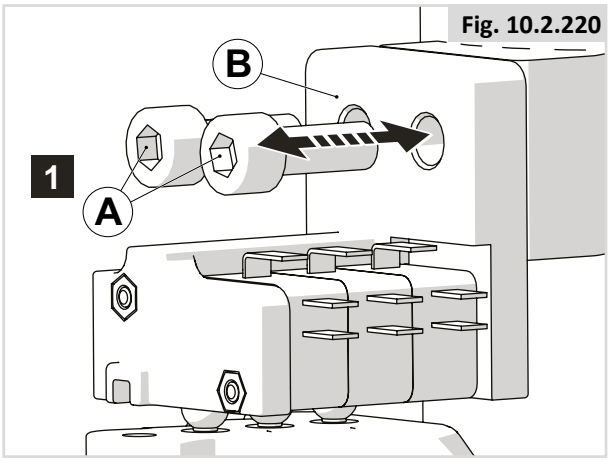


Fig. 10.2.221

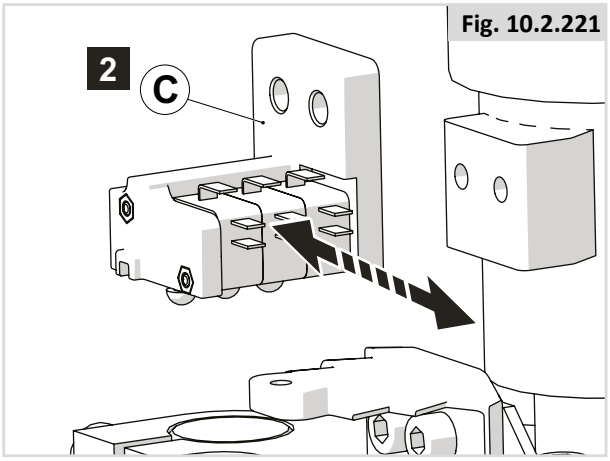
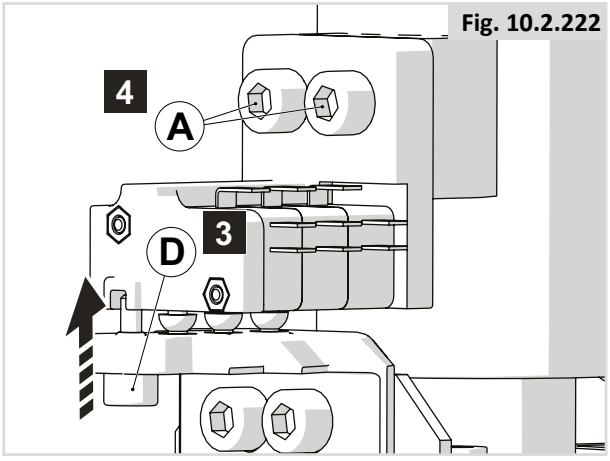


Fig. 10.2.222



Maintenance of speed reduction device - speed reduction switch

Preparation
Note! Switch the power off by turning the ignition key

Instructions
Note! Suitable work area required!

- Follow the illustrated instructions for maintaining or replacing the speed reduction device.
- Rebuild the scooter in reverse order once completed.
- In order to complete this, you must first remove the nose tiller moulding (page 18 -19).
- This instruction is only for repair or maintenance on the device (can't be retrofitted).

Tools used

N/A

Fig. 10.2.223 illustrates the tiller moulding panel when removed from the scooter.

Fig. 10.2.224

1. Squeeze and push out switch (A) from tiller moulding with the rest of the loom through the front of the panel.

Fig. 10.2.223

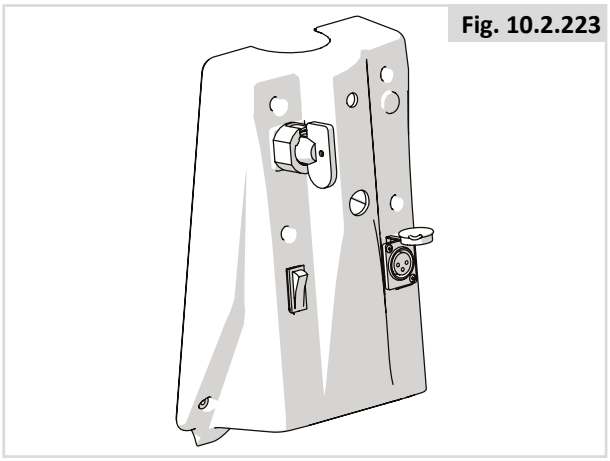
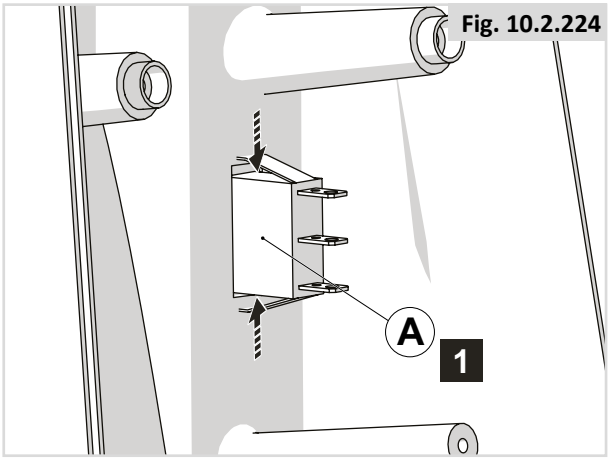


Fig. 10.2.224



11.0 Trouble shooting

If the Elite Scooter is not working or not working as it should then please refer to the Troubleshooting section (section 8 of the user manual), or alternatively contact your supplier.

Guarantee / Warranty

THIS GUARANTEE DOES NOT AFFECT YOUR LEGAL RIGHTS IN ANY WAY.

Sunrise Medical* provides a guarantee, as set out in the warranty conditions, for scooters to its customers covering the following.

Warranty conditions:

1. Should a part or parts of the scooter require repair or replacement as a result of a manufacturing and/or material fault within 24 months or for frame and cross-braces within 5 years after delivery to the customer, then the affected part or parts will be repaired or replaced free of charge. The warranty will only cover manufacturing defects
2. To enforce the warranty, please contact Sunrise Medical Customer Service with the exact details of the nature of the difficulty. Should you be using the scooter outside the area covered by the Sunrise Medical customer service agent, repairs or replacement will be carried out by another agency as designated by the manufacturer The scooter must be repaired by a Sunrise Medical designated Customer Service agent, (dealer).
3. For parts, which have been repaired or exchanged within the scope of this warranty, we provide a warranty in accordance with these warranty conditions for the remaining warranty period for the scooter in accordance with point 1).
4. For original spare parts which have been fitted at the customer's expense, these will have a 12 months guarantee, (following the fitting), in accordance with these warranty conditions.
5. Claims from this warranty shall not arise, if a repair or replacement of a scooter or a part is required for the following reasons:

    a. Normal wear and tear, which include batteries, armrest pads, upholstery, tyres, brakes shoes, etc.
    b. Any overloading of the product, please check the EC label for maximum user weight.
    c. The product or part has not been maintained or serviced in accordance with the manufacturer's recommendations as shown in the user instructions and/or the service instructions.
    d. Accessories have been used which are not specified as original accessories.
    e. The scooter or part having been damaged by neglect, accident or improper use.
    f. Changes/modifications have been made to the scooter or parts, which deviate from the manufacturer's specifications.
    g. Repairs have been carried out, before our Customer Service has been informed of the circumstances.
6. This guarantee is subject to the law of the country in which the product was purchased from Sunrise Medical"

* Means the Sunrise Medical facility from which the product was purchased.

Sunrise Medical S.r.l.
Via Riva, 20 – Montale
29122 Piacenza
Italia
Tel.: +39 0523 573111
Fax: +39 0523 570060
www.SunriseMedical.it

Sunrise Medical AG
Erlenauweg 17
CH-3110 Münsingen
Schweiz/Suisse/Svizzera
Fon +41 (0)31 958 3838
Fax +41 (0)31 958 3848
www.SunriseMedical.ch

Sunrise Medical AS
Delitoppen 3
1540 Vestby
Norge
Telefon: +47 66 96 38 00
post@sunrisemedical.no
www.SunriseMedical.no

Sunrise Medical AB
Neongatan 5
431 53 Mölndal
Sweden
Tel.: +46 (0)31 748 37 00
post@sunrisemedical.se
www.SunriseMedical.se

MEDICCO s.r.o.
H – Park, Heršpická 1013/11d,
625 00 Brno
Czech Republic
Tel.: (+420) 547 250 955
Fax: (+420) 547 250 956
www.medicco.cz
info@medicco.cz
Bezplatná linka 800 900 809

Sunrise Medical Aps
Mårkærvej 5-9
2630 Taastrup
Denmark
+45 70 22 43 49
info@sunrisemedical.dk
www.Sunrisemedical.dk

Sunrise Medical Pty. Ltd.
6 Healey Circuit, Huntingwood,
NSW 2148,
Australia
Phone: 9678 6600,
Orders Fax: 9678 6655,
Admin Fax: 9831 2244.
Australia
www.sunrisemedical.com.au

Sunrise Medical
North American Headquarters
2842 Business Park Avenue
Fresno, CA, 93727, USA
(800) 333-4000
(800) 300-7502
www.SunriseMedical.com

SM_Elite 2 Plus XS Mini_EU_EN_
Rev.D_2024-07-09

Sunrise Medical GmbH
Kahlbachring 2-4
69254 Malsch/Heidelberg
Deutschland
Tel.: +49 (0) 7253/980-0
Fax: +49 (0) 7253/980-222
www.SunriseMedical.de

Sunrise Medical
Thorns Road
Brierley Hill
West Midlands
DY5 2LD
England
Phone: 0845 605 66 88
Fax: 0845 605 66 89
www.SunriseMedical.co.uk

Sunrise Medical S.L.
Polígono Bakiola, 41
48498 Arrankudiaga – Vizcaya
España
Tel.: +34 (0) 902142434
Fax: +34 (0) 946481575
www.SunriseMedical.es

Sunrise Medical Poland
Sp. z o.o.
ul. Elektronowa 6,
94-103 Łódź
Polska
Telefon: + 48 42 275 83 38
Fax: + 48 42 209 35 23
E-mail: pl@sunrisemedical.de
www.Sunrise-Medical.pl

Sunrise Medical B.V.
Groningenhaven 18-20
3433 PE NIEUWEGEIN
The Netherlands
T: +31 (0)30 – 60 82 100
F: +31 (0)30 – 60 55 880
E: info@sunrisemedical.nl
www.SunriseMedical.nl

Sunrise Medical HCM B.V.
Vossenbeemd 104
5705 CL Helmond
The Netherlands
T: +31 (0)492 593 888
E: customerservice@sunrisemedical.nl
www.SunriseMedical.nl
www.SunriseMedical.eu
(International)

Sunrise Medical SAS
ZAC de la Vrillonnerie
17 Rue Michaël Faraday
37170 Chambray-Lès-Tours
Tel : +33 (0) 2 47 55 44 00
Email: info@sunrisemedical.fr
www.sunrisemedical.fr