

SERVICEMANUAL

IBIS X-SERIES



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This manual

This manual contains the basic instructions for repairs and general maintenance of the Ibis manually operated wheelchair.

Mechanics who do repairs on this wheelchair must be well trained and familiar with the repair methods and the maintenance of the Ibis wheelchair.

Always make sure that the work is carried out safely, particularly with respect to procedures requiring the wheelchair to be lifted up.

We advise that you contact our service department before doing repair work on a wheelchair that has been involved in an accident.

The following specifications are important when ordering parts:

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

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

Service and technical support

For information concerning specific settings, maintenance or repair works please contact your dealer. He is always prepared to help you.

Ensure you have at hand:

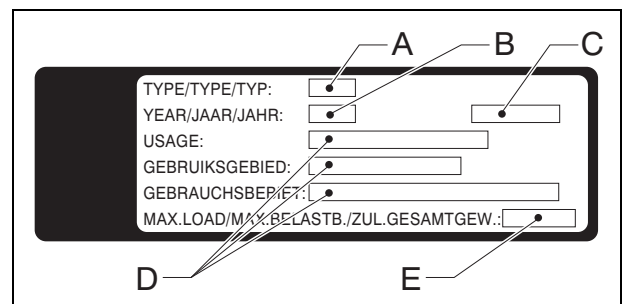
- Model
- Year of manufacture
- Identification number

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

Identification of the product

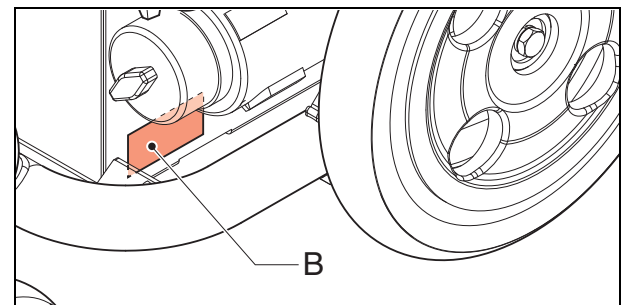
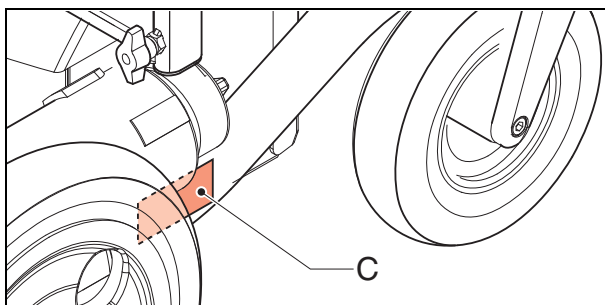
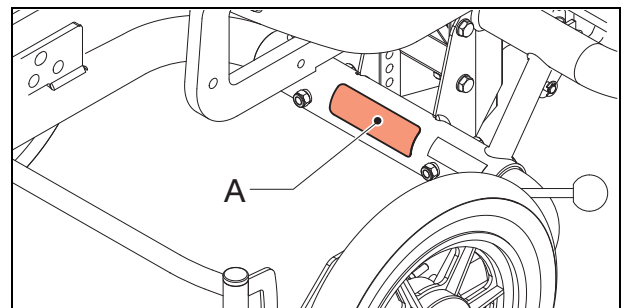
The identification plate contains the following data:

- A. Model
- B. Year of manufacture
- C. Identification number
- D. Use area indoors or outdoors
- E. Maximum load in kg



The location of the identification plate differs per model:

- A. Ibis XA, Ibis XC, Ibis XC 16" and Ibis XC Power Support
- B. Ibis XP with rear-wheel drive
- C. Ibis XP with front-wheel drive



Warranty stipulations concerning the wheelchair

In the following warranty and liability stipulations the terms and definitions as summed up hereafter must be explained as follows:

- **Product:** The manually operated or electric wheelchair or electric scooter manufactured and delivered by Handicare.
- **Customer:** The person who directly obtains a Product from Handicare or an authorised representative.
- **Dealer:** The person who delivers a Product obtained from Handicare to customers or third parties.
- **User:** The person who uses a Product manufactured by Handicare.

Irrespective of what is determined concerning warranty conditions applicable to the Product, in any case the following applies with regard to the warranty:

1. Except insofar as described otherwise Handicare guarantees the Product for its suitability for the purpose for which the Product is intended - all of these points as described in this manual - and for the quality of the material of which the Product is made and the manner in which the Product is manufactured.
2. Repairs or replacement of parts of the Product that may be necessary as a result of faults that are based on qualitatively faulty material or manufacturing errors will be executed free of charge, as long as such faults occurred within one (1) year after the date of delivery of the Product to the Customer. The parts to be replaced must be shipped postage-paid to Handicare. Installation or removal of these parts is for the Customer's account. Therefore, the following cases are not eligible for free repair or replacement as meant above:
 - The repair or replacement that is necessary in connection with faults that arise after one (1) year after the date of delivery of the Product to the Customer;
 - The repair or replacement that is required in connection with faults due to improper or careless use of the Product or that are based on the Product being used for another purpose than the one for which it is intended, in which regard it applies that if the Customer is a Dealer, this Dealer will indemnify Handicare against possible claims from Users or other third parties for faults based on an incorrect or careless use of the Product;
 - Parts that are subject to wear and the need for repair or replacement of the parts are the actual consequence of normal wear. These can include, but are not limited to, tyres, shrouds, arm-pads, seating etc.
3. Irrespective of that stipulated under 2, it applies as far as an electric Product is concerned that with regard to the battery that forms part of the Product warranty is only given in case of faults or non-functioning of the battery that are demonstrably the direct consequence of material or manufacturing errors. A fault or non-functioning of the battery as a result of normal wear is not covered by the warranty as meant in these warranty stipulations. Similarly not covered by the warranty are faults or non-functioning that are the consequence of improper or unprofessional use of the Product or the battery that is part of the Product, including the incorrect charging of the battery and the failure to carry out timely and good maintenance, in which context it also applies that if the Customer is a Dealer, this Dealer will indemnify Handicare against possible claims from Users or other third parties that are based on the above mentioned improper or unprofessional use of the Product or the battery that is part of the Product. Handicare does not guarantee batteries provided by dealers or purchased by the customer.
4. The warranty conditions as mentioned in above stipulations in any case become null and void if:
 - The guidelines of Handicare for the maintenance of the Product are not, or insufficiently, followed;
 - A necessary repair or replacement of parts is based on neglect, damage or abuse of the Product or a use of the Product for another purpose than the one for which it was intended;
 - Parts of the Product are replaced by parts of another origin than those used by Handicare and/or parts of the Product are replaced without the permission of Handicare.
5. The warranties as mentioned in stipulations 1 through 3 also become null and void if what is involved is re-used by a new user within the warranty period and that such re-use necessitates adaptations to the wheelchair and those adaptations are carried out without the instructions and/or at the order of Handicare.
6. To retain rights under the warranties delineated above, the Customer must, in case of damage or other calamities, as rapidly as possible contact Handicare and inform them as fully as possible. The possibility of taking recourse to the above-mentioned warranty conditions becomes null and void for the Customer in any case after 20 workdays after the claim situation or the calamity arises that was the reason for the recourse to the warranty.
7. The replacement of a part or the repair or the reconditioning of the Product within a current warranty period does not extend the warranty period.
8. Handicare gives no warranty on repair to or reconditioning of the Product carried out other than under order of and/or at the instructions of Handicare. If repairs and/or reconditioning are executed by or on behalf of a Customer, the Customer indemnifies Handicare with respect to the claims of third parties that result, in the broadest sense of the word, from such repairs or reconditioning.

Liability stipulations concerning the Product

Irrespective of what is determined regarding liability in the general conditions applicable to the Product, with regard to liability in any case the following applies:

1. Taking into consideration the following stipulations, Handicare only accepts liability for loss due to death or physical injury that is the result of a defect in the Product for which Handicare is responsible and for damage to another object that is the private property of the user of the Product, as long as said loss is the direct result of a fault in the Product.
2. Handicare accepts no other or further liability than delineated under 1. In particular Handicare accepts no liability for consequential damage, in any form whatsoever.

Wheelchairs and the environment



If the wheelchair needs to be replaced, it can usually be taken back by your dealer. If this is not possible, please contact your local authorities for the possibilities of recycling or an environmentally friendly way of disposing of the used materials.

For the production of the wheelchair various plastics and metals have been used.

Depending on the version, the wheelchair can contain electronic components that belong to electronic waste, while the batteries belong to chemical waste.

1 Maintenance

1.1 Maintenance table

Everything that is used should be maintained. This is also true for your wheelchair.

Below, we have indicated what needs to be checked, how often this should be done, and by whom.

Time	Type Ibis			Description	To be carried out by	
	XA	XC	XP		Gebruiker	Dealer
Weekly	X	X	X	• Checking the tyre pressure	X	-
Monthly	X	X	X	• Cleaning of the frame.	X	-
	X	X	X	• Cleaning of the upholstery (if necessary)	X	-
Annually (if necessary)	X	X	X	• General overhaul	-	X
	X	X	X	• Checking the bearings	-	X
	X	X	X	• Checking all fastenings and bolts: tighten if necessary	-	X
	X	X	X	• Checking and cleaning of the brakes.	-	X

It is recommended to have your wheelchair serviced by your dealer at least once a year, or, in case of intensive use, once every six months.

1.2 Battery

For maintenance see the following documentation:

- Regulations concerning the batteries.
- User manual of the battery charger.

The wheelchair has 'dry' gel batteries. These dry batteries (dry-fit) are entirely sealed and maintenance free. The connection diagram for the batteries is provided on a sticker inside the battery tray.



- *Make sure that the batteries are always well charged.*
- *Do not use the wheelchair if the batteries are almost flat. This may damage the batteries and you run the risk to come to an unintended standstill.*
- *The use of 'wet' batteries is not permitted. If the batteries need to be replaced, use dry batteries only.*

1.3 Replacement and repair activities for the Ibis XA

1.3.1 Rear wheels

To ensure proper operation of the wheelchair, it is very important that the tyres are kept at the correct pressure.

Soft tyres yield less than optimal driving for the wheelchair. It also costs more energy to move the wheelchair forward. Moreover, tyre wear when driving on soft tyres is unnecessarily great.

For the right tyre tension, see 'Product specifications'.



Note when filling the tyres that the pressure never exceeds the maximum specified value provided in the table 'product specification', or as indicated on the side of the tyre. When in doubt, contact your dealer / supplier.

For the inspection of the tyres, see the 'maintenance table'.

1.3.2 Replacing rear wheels

The rear wheels should be removed as follows:

- Remove locking nut (A) with a 17 mm box spanner.
- Remove the complete rear wheel (B) from axle (C).
- Remove the tyres, see 'Repairing the tyre of the rear wheel' or 'Replacing the tyre of the rear wheel'.

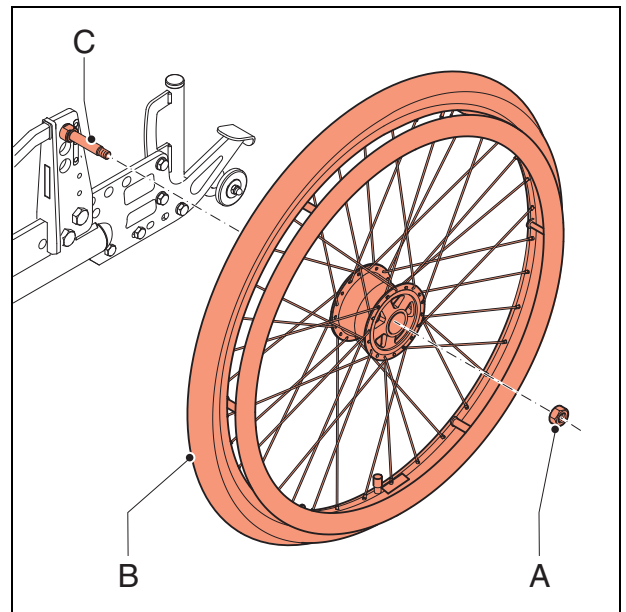
Fit the new wheel in the reverse order.



Attention:

The locknut may not be used again – use a new one when replacing.

Always check the proper locking of the rear wheels. Try to pull the wheel out of the frame in axial direction. If the wheel comes out, it is not properly secured. In that case, you should repeat the above actions.



1.3.3 Repairing the tyre of the rear wheel

Repair a flat tyre as follows:

- Remove the rear wheel to be repaired from the wheelchair. See 'Removing the rear wheels'.
- Twist off the valve to let the air out of the tyre completely.
- Using tyre levers pull one side of the tyre across the edge of the rim.
- Remove the inner tube from the rim.
- Repair the inner tube or replace it (this is done in the same way as a bicycle tyre).

Reassemble the tyre (with repaired or new inner tube) as follows:

- Put the valve through the opening in the rim.
- Carefully place the tyre around the rim.
- Add a little air to the inner tube in order to position it comfortably around the rim.
- Pull the tyre onto the rim as far as possible.
- Allow all air to escape from the inner tube.
- Now pull the tyre completely onto the centre of the rim as tightly as possible.
The rim has a room into which the tyre must be pulled, in order to create sufficient space to be able to pull the complete tyre onto the rim by hand.
- Pull the tyre completely onto the rim.



Do not use tyre levers to do this, because the inner tube is easily damaged by these. Moreover, the tyre is easily assembled without tyre levers.

- Make sure that the tyre is properly fitted onto the rim.



The inner tube may not protrude from under the tyre anywhere!

- Pump up the tyre.
- Mount the wheel back onto the wheelchair. See 'Removing the rear wheels'.

1.3.4 Replacing the tyre of the rear wheel

The tyre should be replaced as follows:

- Remove the rear wheel to be repaired from the wheelchair. See 'Removing the rear wheels'.
- Twist off the valve to let the air out of the tyre completely.
- Using tyre levers, pull one side of the tyre across the edge of the rim.
- Remove the inner tube from the rim.
- Remove the other part of the tyre from the rim.

Now install a new tyre as follows:

- Place one side of the new tyre across the rim.

- Put the valve through the opening in the rim.
- Carefully place the tyre around the rim.
- Add a little air to the inner tube in order to position it comfortably around the rim.
- Pull the tyre onto the rim as far as possible.
- Allow all air to escape from the inner tube.
- Now pull the tyre completely onto the centre of the rim as tightly as possible.
The rim has a room into which the tyre must be pulled, in order to create sufficient space to be able to pull the complete tyre onto the rim by hand.
- Pull the tyre completely onto the rim.



Do not use tyre levers to do this, because the inner tube is easily damaged by these. Moreover, the tyre is easily assembled without tyre levers.

- Make sure that the tyre is properly fitted onto the rim.



The inner tube may not protrude from under the tyre anywhere!

- Pump up the tyre.
- Mount the wheel back onto the wheelchair. See 'Removing the rear wheels'.

1.3.5 Adjusting the pressure brake

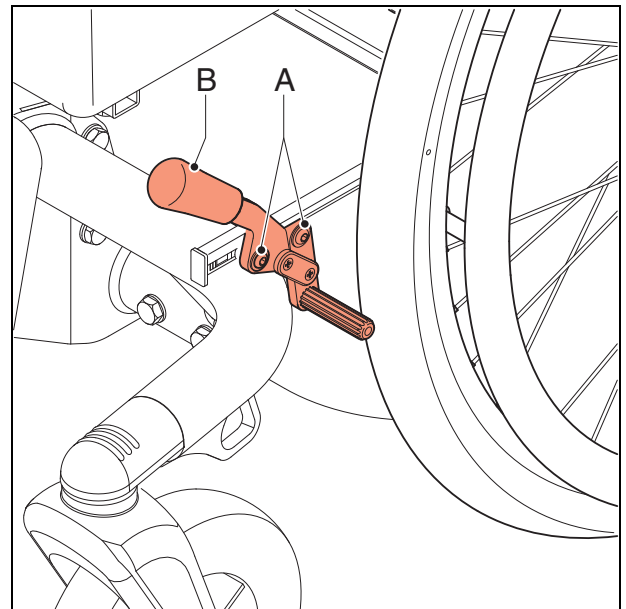
The wheelchair is fitted with pressure brakes on the rear wheels, which the user can operate by hand.

Proper functioning of the brakes is essential. That's why the brakes have to be:

- properly adjusted
- replaced in time.

Adjust the brakes as follows:

- Loosen screw (A) one turn using a 5 mm Allen key.
- Slide brake unit (B) along the tube for the adjustment.
 - away from the wheel: brake looser.
 - towards the wheel: brake tighter.
- Tighten the screw in the set position.



1.4 Replacement and repair activities for the Ibis XC and XC 16" and XC Power Support

1.4.1 Rear wheels

To ensure proper operation of the wheelchair, it is very important that the tyres are kept at the correct pressure.

Soft tyres yield less than optimal driving for the wheelchair. It also costs more energy to move the wheelchair forward. Moreover, tyre wear when driving on soft tyres is unnecessarily great.

For the right tyre tension, see 'Product specifications'.



Note when filling the tyres that the pressure never exceeds the maximum specified value provided in the table 'product specification', or as indicated on the side of the tyre. When in doubt, contact your dealer / supplier.

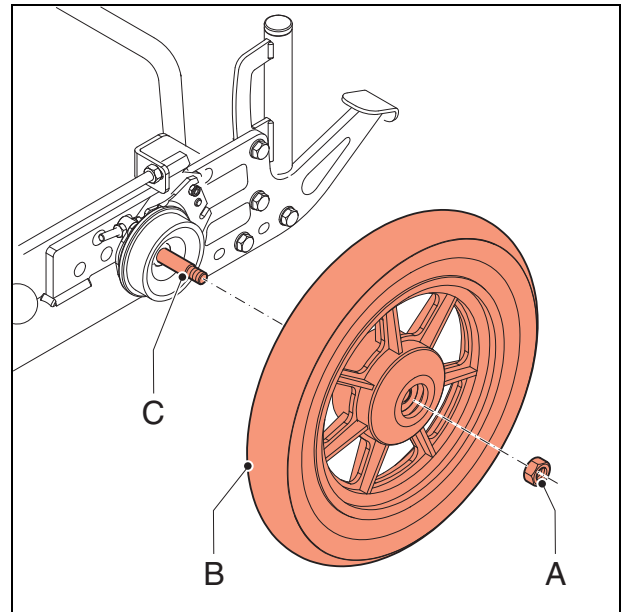
For the inspection of the tyres, see the 'maintenance table'.

1.4.2 Replacing the rear wheel of the Ibis XC

When replacing a rear wheel, the wheel may not be braked. Replace the rear wheel as follows:

- Support the wheelchair in such a way that the wheel is elevated.
- Remove locking nut (A) with a 12 mm box spanner.
- Pull wheel (B) off the axle (C).
- Remove the tyres; see 'Repairing the tyre of the drive wheel' or 'Replacing the tyre of the drive wheel'.

Fit the new wheel in the reverse order.

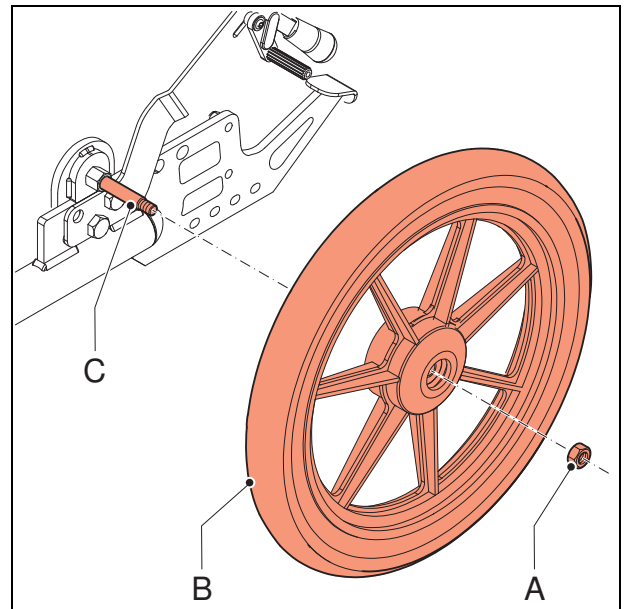


1.4.3 Replacing the rear wheel of Ibis XC 16" (option)

When replacing a rear wheel, the wheel may not be braked. Replace the rear wheel as follows:

- Support the wheelchair in such a way that the wheel is elevated.
- Remove locking nut (A) with a 17 mm box spanner.
- Pull wheel (B) off the axle (C).
- Remove the tyres; see 'Repairing the tyre of the drive wheel' or 'Replacing the tyre of the drive wheel'.

Fit the new wheel in the reverse order.

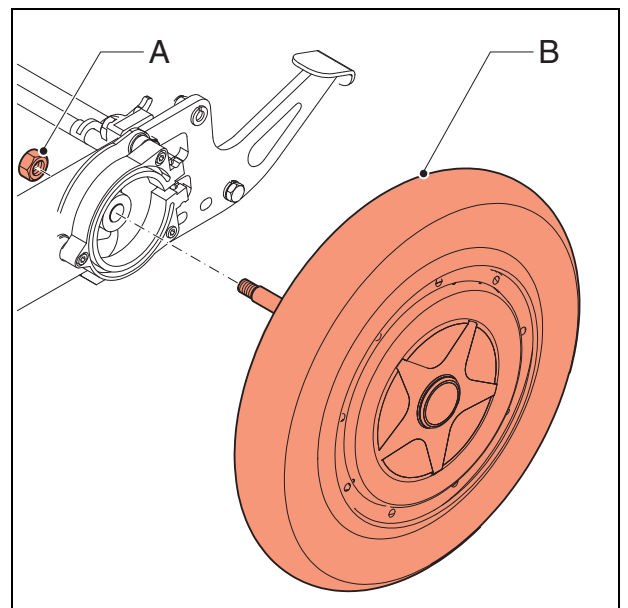


1.4.4 Replacing the rear wheel of Ibis XC with Power Support (option)

When replacing a rear wheel, the wheel may not be braked. Replace the rear wheel as follows:

- Support the wheelchair in such a way that the wheel is elevated.
- Remove nut (A) with a 19 mm open-ended spanner.
- Remove wheel (B).
- Remove the tyres; see 'Repairing the tyre of the drive wheel' or 'Replacing the tyre of the drive wheel'.

Fit the new wheel in the reverse order.



1.4.5 Repairing the tyre of the rear wheel

When repairing the inner tube of a rear wheel, the wheel should be braked, so that it does not rotate at the same time.

Repair a flat tyre as follows:

- Support the wheelchair in such a way that the wheel is elevated.
- Pull out the valve to completely deflate the tyre.
- Using tyre levers pull the front of the tyre across the edge of the rim.
- Carefully pull the inner tube across the edge of the rim.
- Push the valve from the opening in the rim.
- Pull the inner tube from the tyre for repair or replacement.
- Repair the inner tube or replace it.

Now, the repaired or new inner tube should be placed as follows:

- Put the valve of the inner tube through the opening in the rim.
- Press the inner tube into the tyre.
- Place the tyre around the rim.
- Use tyre levers to place the tyre around the rim: be careful not to damage the inner tube with the tyre levers.



The inner tube must not become jammed between the rim and the tyre.

- Pump up the inner tube, see 'technical data'.
- Remove the support from under the wheelchair.
The wheelchair is ready for use.

1.4.6 Replacing the tyre of the rear wheel

When replacing a tyre of a rear wheel, the wheel should be braked, so that it does not rotate at the same time.

Replace a tyre as follows:

- Support the wheelchair in such a way that the wheel is elevated.
- Pull out the valve to completely deflate the tyre.
- Using tyre levers pull the front of the tyre across the edge of the rim.
- Carefully pull the inner tube across the edge of the rim.
- Push the valve from the opening in the rim.
- Pull the inner tube from the tyre.
- The whole tyre can now be removed.

Now the tyres (with repaired or new inner tube) should be assembled as follows:

- Place one side of the tyre around the rim.
- Put the valve of the inner tube through the opening in the rim and press the inner tube into the tyre.
- Place the tyre around the rim.
- Use tyre levers to place the tyre around the rim: be careful not to damage the inner tube with the tyre levers.



The inner tube must not become jammed between the rim and the tyre.

- Pump up the inner tube, see 'technical data'.
- Remove the support from under the wheelchair.
The wheelchair is ready for use.

1.4.7 Adjusting the brake of an Ibis XC

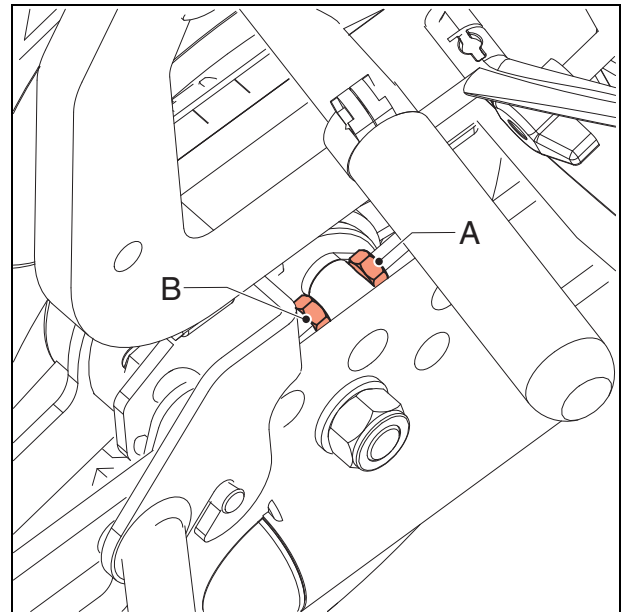
The wheelchair is equipped with drum brakes on the rear wheels, which can be either operated by hand by the user, or with the foot by the person pushing the wheelchair.

Proper functioning of the brakes is essential. That's why the brakes have to be:

- properly adjusted
- replaced in time.

Adjust the brakes as follows:

- Loosen nut (A).
- Remove nut (B) with a 10 mm open-ended spanner.
 - Clockwise: brake tighter.
 - Anti-clockwise: brake looser.



1.4.8 Adjusting the pressure brake of the Ibis XC 16" (option)

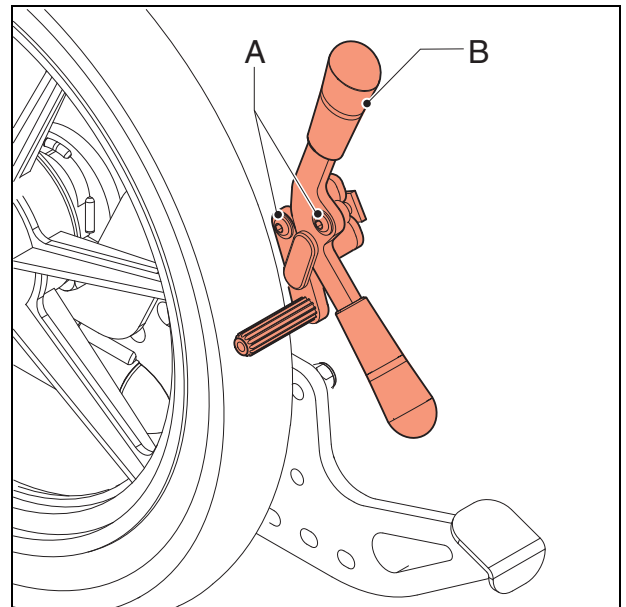
The wheelchair is equipped with drum brakes on the rear wheels, which can be either operated by hand by the user, or with the foot by the person pushing the wheelchair.

Proper functioning of the brakes is essential. That's why the brakes have to be:

- Properly adjusted
- Replaced in time.

Adjust the brakes as follows:

- Loosen screw (A) one turn using a 5 mm Allen key.
- Slide brake unit (B) along the tube for the adjustment.
 - Away from the wheel: brake looser.
 - Towards the wheel: brake tighter.
- Tighten the screw in the set position.

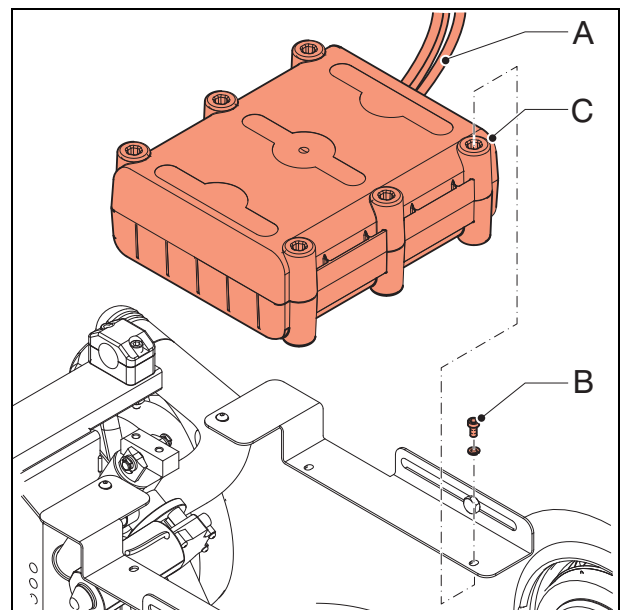


1.4.9 Replacing the battery pack of the Ibis XC Power Support (option)

Replace the battery pack as follows:

- Disconnect cables (A) to the motor and the controller.
- Loosen the four screws (A) using a 4 mm Allen key.
- Remove battery pack (C).

Fit the battery pack in the reverse order.



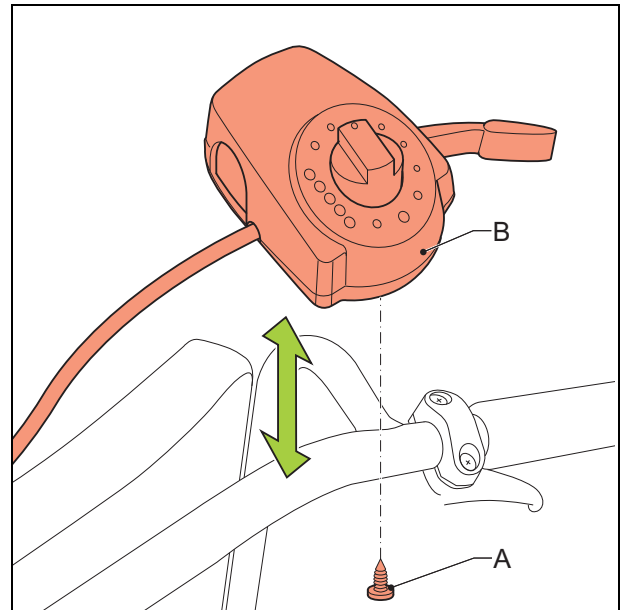
1.4.10 Replacing the controller of the Ibis XC Power Support (option)

Replace the controller as follows:

- Cut the Ty-Raps that hold the cable.
- Loosen three cross-head screws (A).

Remove the controller.

Fit a new controller in the reverse order.



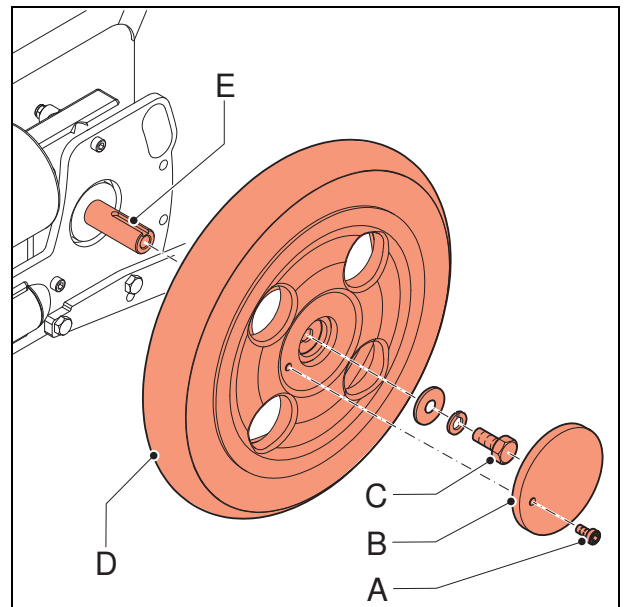
1.5 Replacement and repair activities for the Ibis XP

1.5.1 Replacing the driven wheel

Replace a driven wheel as follows:

- Support the wheelchair in such a way that the wheel is elevated.
- Loosen cross-head screw (A).
- Remove protective cover (B).
- Loosen hexagonal bolt (C) with a 17 mm box spanner.
- Pull wheel (D) off the axle (E).

Fit a new wheel in the reverse order.



1.5.2 Repairing the tyre of the rear wheel

See below: 'Replacement and repair activities for the Ibis XC'.

1.5.3 Replacing the tyre of the rear wheel

See below: 'Replacement and repair activities for the Ibis XC'.

1.5.4 Replacing the motor

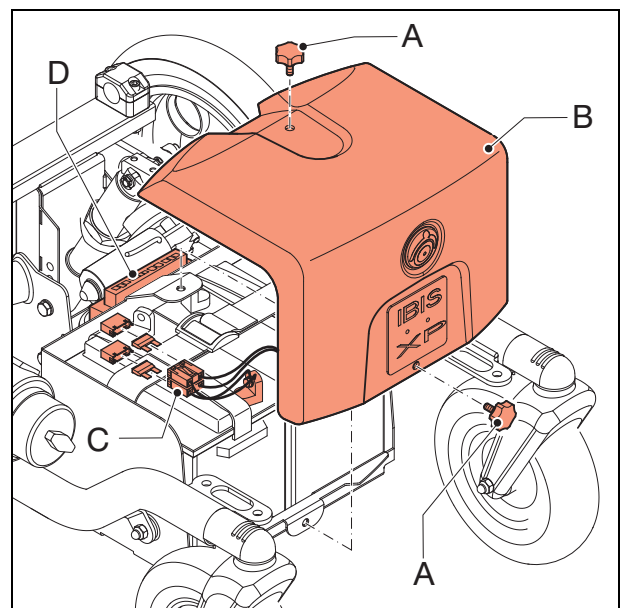
Replace the motor as follows:

Step 1:

- Loosen the star knobs (A).
- Remove battery cover (B).
- Remove fuses (C).

Step 2:

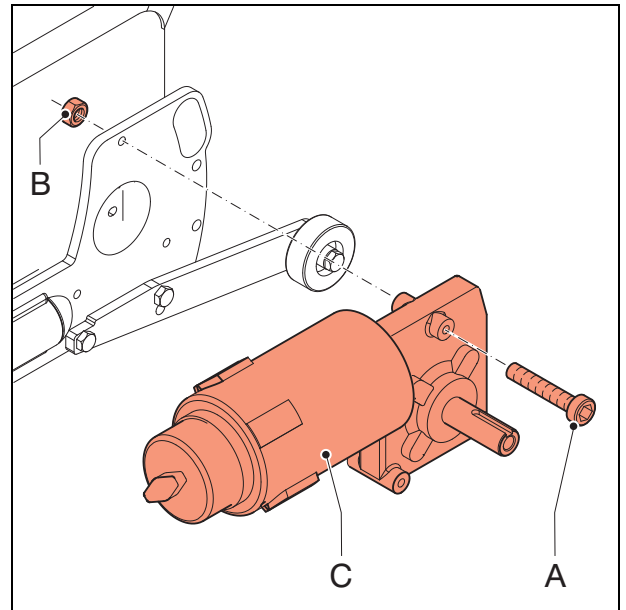
- Disconnect the motor cable from power module (D).



Step 3:

- Remove the wheel; see 'Replacing drive wheel'.
- Loosen three Allen bolts (A) and nut (B) with a 5 mm Allen key and remove motor (C). Use a 10 mm open-ended spanner for the nut.

Fit a new motor in the reverse order.

**1.5.5 Replacing the batteries**

Replace the batteries as follows:

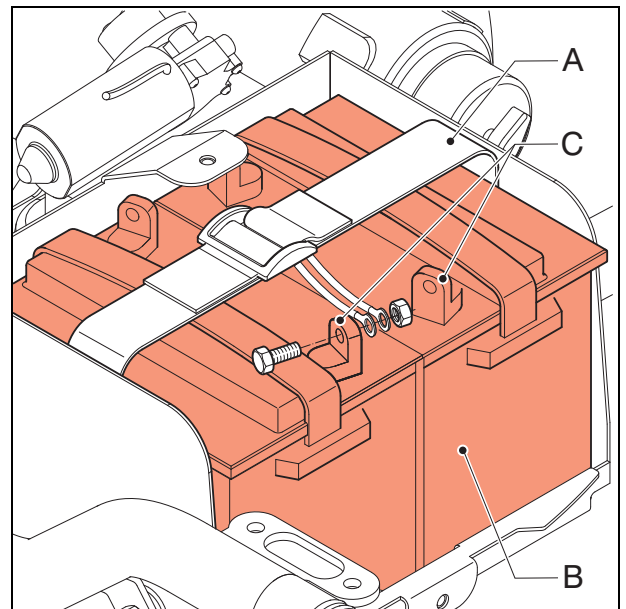
Step 1:

- See 1.5.4 (step 1).

Step 2:

- Release battery strap (A).
- Disconnect the cables from batteries (B) by unscrewing the bolts from the battery terminals (C) with a 10 mm open-ended or ring spanner.
- Remove the batteries from the wheelchair.

Fit new batteries in the reverse order.

**1.5.6 Replacing the Power Module**

Replace the Power Module as follows:

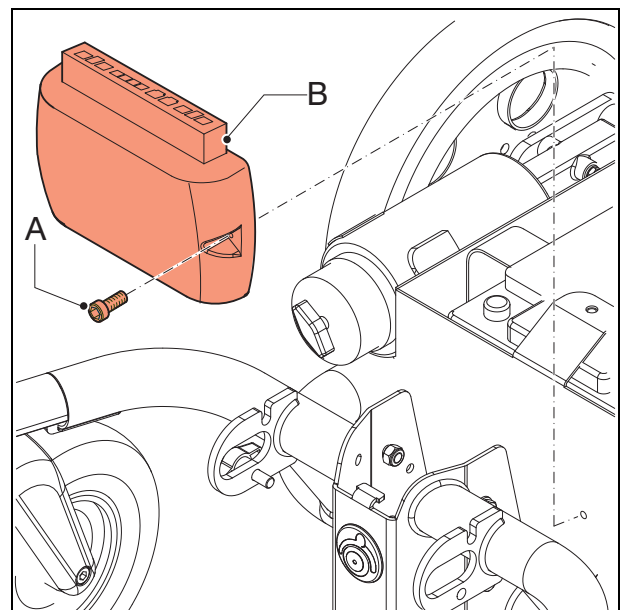
Step 1:

- See 1.5.4 (step 1).

Step 2:

- Unscrew both screws (A) with a 3 mm Allen key and remove battery pack (B).

Fit a new Power Module in the reverse order.



1.5.7 Replacing the Controller

Replace the controller as follows:

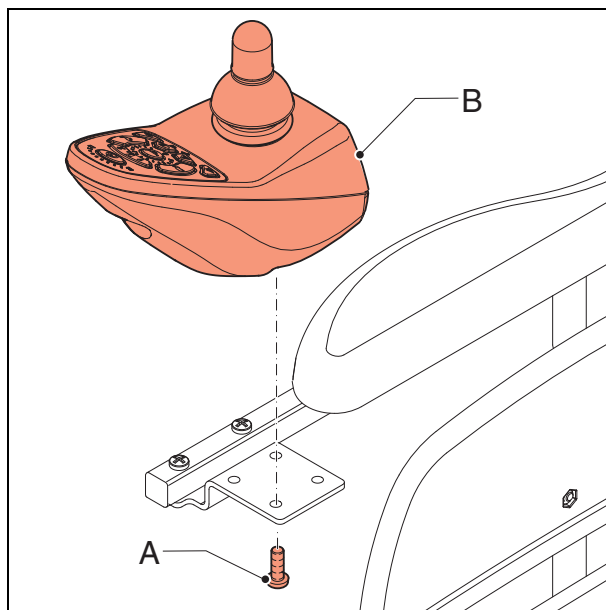
Step 1:

- See 1.5.4 (step 1).

Step 2:

- Cut the Ty-Raps that hold the cable to the frame and to other cabling.
- Loosen the four screws (A).
- Remove the controller (B).

Fit a new controller in the reverse order.

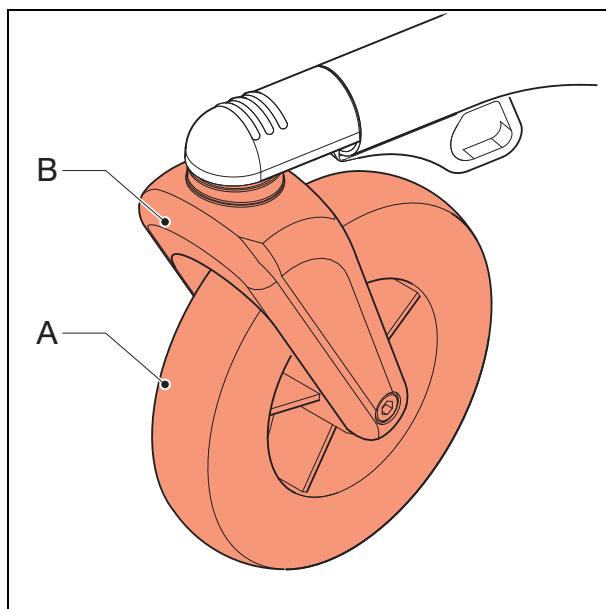


1.6 Replacing the swivel castor

For the proper functioning of the wheelchair, it is very important that the wheels are kept in order.

The following parts can be replaced:

- Wheel (A), see 'Replacing a wheel'.
- Fork (B), see 'Replacing a fork'.

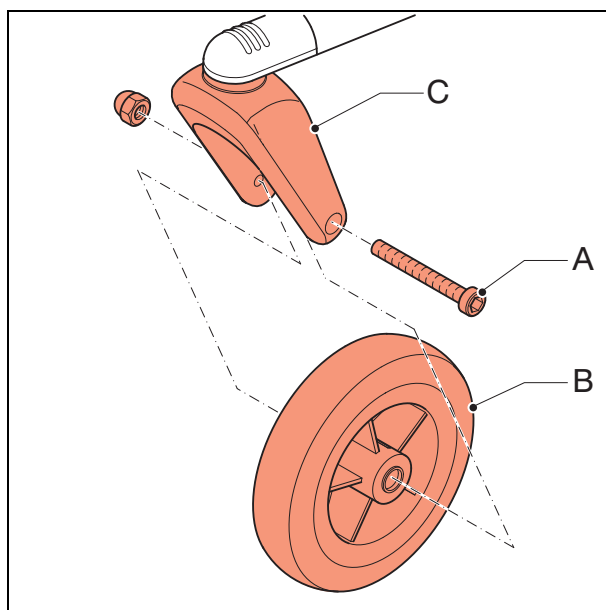


1.6.1 Replacing a wheel

Replace a wheel as follows:

- Loosen the Allen bolt (A) with an Allen key with a key width of 5 mm.
- Slide wheel (B) out of the fork (C).

Fit a new wheel in the reverse order.



1.6.2 Replacing a fork

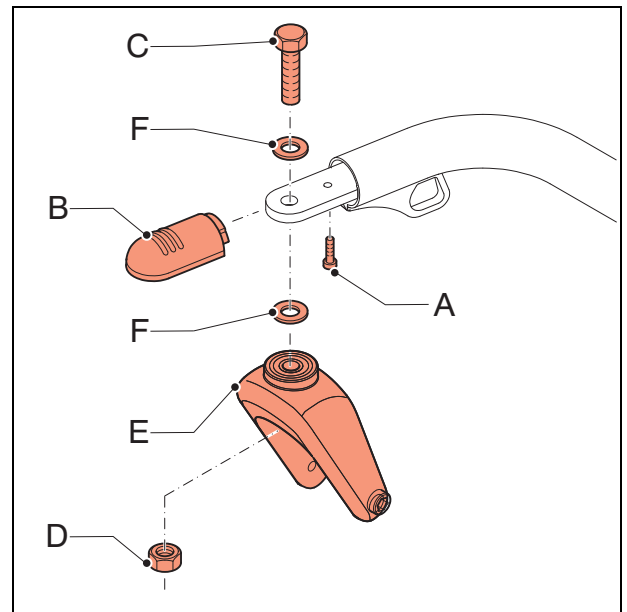
Replace the fork as follows:

- Remove the wheel from the fork; see 'Replacing a wheel'.
- Remove screw (A) with a Phillips screwdriver.
- Remove cap (B).
- Loosen bolt (C) using a 19 mm box spanner and prevent nut (D) from moving with a 19 mm ring spanner.
- Take fork (E) out of the frame.
Take care not to lose the washers (F).

Mount the fork in the reverse order.



Attention:
The locknut may not be used again – use a new one when replacing.



1.7 Cleaning

Removing dry dirt

Upholstery, metal parts and frame parts can usually be cleaned easily with a dry soft cloth.

Removing mud and/or other wet dirt

Parts that are soiled with wet dirt can best be cleaned by first wiping the dirty parts with a wet sponge and then wiping them dry with a dry soft cloth.

Upholstery

Cleaning with a damp cloth and household soap. After removing the dirt the cleaned parts should be wiped dry with a soft dry cloth.



- *Never use abrasive or aggressive cleansers. They may damage the wheelchair.*
- *Also do not use organic solvents such as thinner, dry-cleaning naphtha, or white spirit.*
- *Upholstery: do not dry clean, iron or spin dry.*

2 Technical specification

Description	
Model	Ibis XC / XA
Max. user weight	160 kg
Total length	1040 mm
Total width Ibis XC	625 mm
Total width Ibis XA	660-700-740 mm
Total weight	40 kg
Total weight of the heaviest part Ibis XC	26 kg
Total weight of the heaviest part Ibis XA	28 kg
Static stability downward	15°
Static stability upward	15°
Static stability sideways	15°
Seat tilt adjustment	30°
Seat angle	0 - 6°
Effective seat depth	440 - 520 mm
Effective seat width Ibis XC	380 - 555 mm
Effective seat width Ibis XA	380 - 555 mm
Seat height front	390 - 540 mm
Backrest angle	89 - 118°
Backrest height	520 - 570 mm
Lower leg length	390 - 500 mm
Armrest height	180 - 280 mm
Front armrest to backrest	370 - 450 mm
Minimum turning radius	810 mm
Ground clearance	70 mm
Push bracket height	830 - 1200 mm

Wheels	
Diameter front wheel	7"
Diameter rear wheels Ibis XC	12" / 16"
Diameter rear wheels Ibis XA	20" / 22" / 24"
Tyre pressure rear wheels	12": 2.5 bar 20" / 22" / 24": 7.5 bar

Description	
Model	Ibis XP
Max. user weight	160 kg
Total length	1040 mm
Total width	595 mm
Total weight excl. batteries	60 kg
Static stability downward	15°
Static stability upwards	15°
Static stability sideways	15°
Range (ISO 7176) 33 Ah/c5 batteries	25 km
Range (ISO 7176) 40 Ah/c5 batteries	31 km
Dynamic stability on slopes FWD	6°
Dynamic stability on slopes RWD	14°
Climbing capacity for obstacles FWD	70 mm
Climbing capacity for obstacles RWD	50 mm
Climbing capacity for obstacles RWD with kerb climber	100 mm
Maximum speed	6 km/h
Seat tilt	15°
Seat angle	0 - 6°
Effective seat depth	440 - 520 mm
Effective seat width	380 - 555 mm
Seat height front	435 - 540 mm
Backrest angle	89 - 120°
Backrest height	520 - 570mm
Lower leg length	390 - 500 mm
Armrest height	180 - 280 mm
Front armrest to backrest	370 - 450 mm
Minimum turning radius RWD	790 mm
Minimum turning radius FWD	600 mm
Ground clearance	60 mm

Wheels	
Diameter castor wheel	8"
Diameter drive wheel	12,5"
Tyre pressure castor wheel	2,5 Bar
Tyre pressure drive wheel	2,7 Bar

Batteries	
Maximum dimensions batteries FWD (WxDxH)	278x200x180
Maximum dimensions batteries RWD (WxDxH)	278x358x180
Maximum battery capacity	30 / 40 Ah
Maximum permissible charging voltage	24 V
Maximum charging current	10 A
Connector type	A DIN 72311

2.1 Standard program for the Ibis XP with front-wheel drive

General settings	FWD			
Lowest Forward Speed (%)	10			
Lowest Turning Speed (%)	10			
Sleep Timer (Min)	0			
Wakeup Style	Buttons			
Beep on Key press	Yes			
Speed Button Sensitivity	5			
Joystick Throw	Normal			
Joystick Switch Threshold (%)	40			
Lock Enable	No			
Field Programmability	Full			
Active Drive Program	Program 3			
Emergency Deceleration (%)	60			
Speedo Display	Maximum Speed			
Indicator Auto-cancel	15 sec			
Drive Programs	Program 1	Program 2	Program 3	
Drive Program Name	RWD	Med Chair	FWD	
Maximum Forward Speed (%)	95	95	95	
Forward Acceleration (%)	25	25	25	
Forward Deceleration (%)	55	55	45	
Maximum Reverse Speed (%)	40	40	40	
Reverse Acceleration (%)	30	30	30	
Reverse Deceleration (%)	55	55	55	
Maximum Turning Speed (%)	30	30	30	
Turning Acceleration (%)	20	20	10	
Turning Deceleration (%)	60	60	40	
Tremor Damping (%)	40	40	40	
Load Compensation (mOhm)	80	80	80	
Maximum Load Compensation (mOhm)	400	400	400	
Active Stability Profile	Profile 1	Profile 2	Profile 4	
Traction (%)	0	0	20	
Attendant Drive Program				
Maximum Forward Speed (%)	100			
Forward Acceleration (%)	40			
Forward Deceleration (%)	60			
Maximum Reverse Speed (%)	70			
Reverse Acceleration (%)	35			
Reverse Deceleration (%)	70			
Maximum Turning Speed (%)	50			
Turning Acceleration (%)	40			
Turning Deceleration (%)	60			
Tremor Damping (%)	40			
Joystick Swap Forward/Reverse	No			
Joystick Swap Left/Right	No			
Stability Profiles 1 to 4	Profile 1	Profile 2	Profile 3	Profile 4
Stability Profile Name	RWD	Lo Chair	Med Chair	FWD
Maximum Speed in turn (%)	100	15	10	5
Speed Acceleration Scalar (%)	0	0	0	0
Turning Acceleration Scalar (%)	0	0	0	0
Turning at Maximum Speed (%)	100	100	100	40
Turning Acceleration at Maximum Speed (%)	100	100	100	100
Traction at Maximum Speed pot (%)	0	0	0	15
FWD/RWD Swivel	No	No	No	No

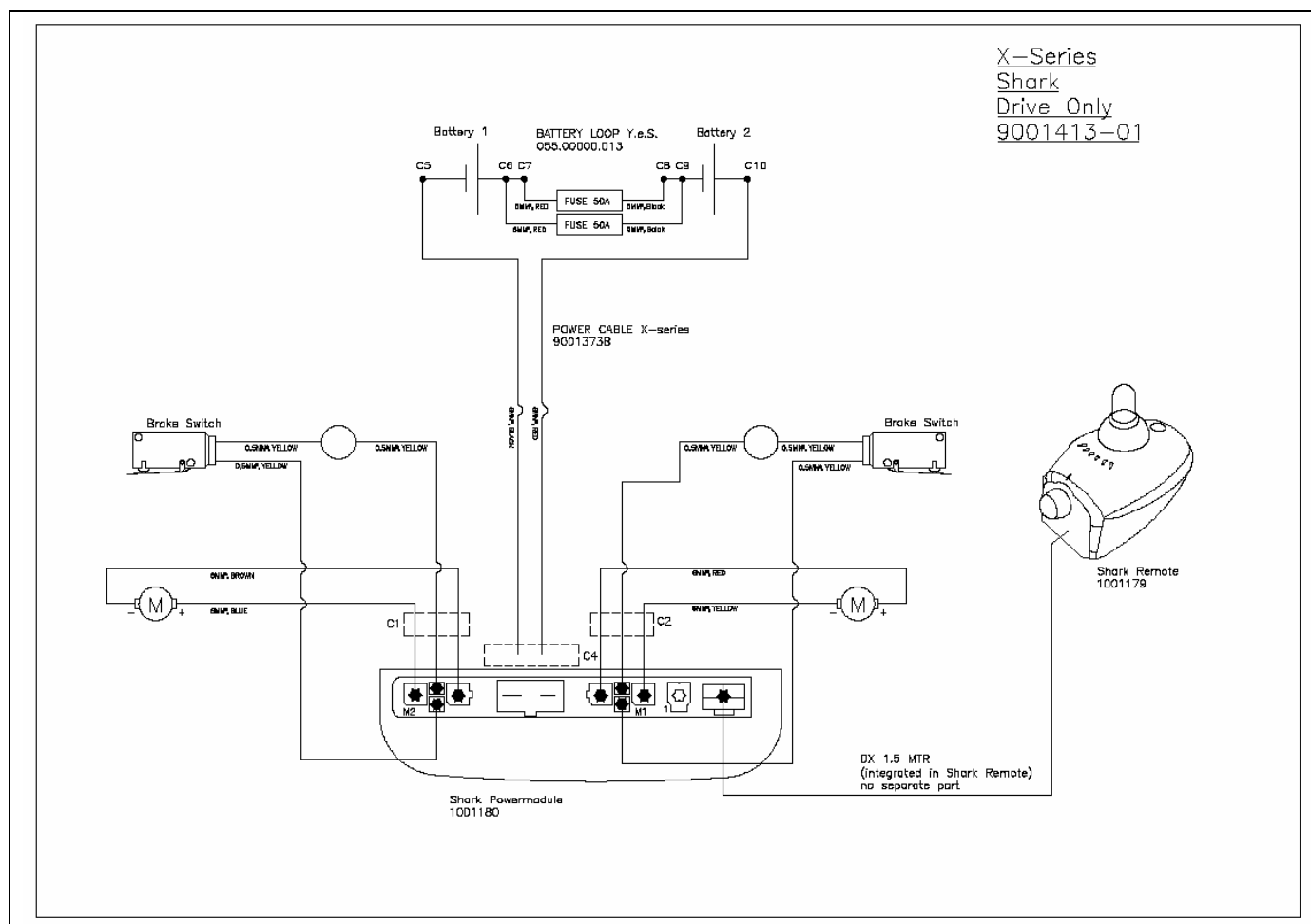
Stability Profiles 5 to 8	Profile 5	Profile 6	Profile 7	Profile 8
Stability Profile Name	NoCT Swivel	LoCT Swivel	MedCT Swivel	HiCT Swivel
Maximum Speed in turn (%)	100	15	10	5
Speed Acceleration Scalar (%)	0	0	0	0
Turning Acceleration Scalar (%)	0	0	0	0
Turning at Maximum Speed (%)	100	100	100	100
Turning Acceleration at Maximum Speed (%)	100	100	100	100
Traction at Maximum Speed pot (%)	0	0	0	0
FWD/RWD Swivel	No	No	No	No
Motor/Brake				
Parking brake Type	Dual			
Software Current Limit (A)	40			
Boost Current (A)	15.0			
Boost Time (s)	10			
Stall Timeout (s)	15			
Spring Compensation	Off			
Motor swap	Yes			
Left Motor Invert	Yes			
Right Motor Invert	Yes			
Enable Soft Start	Yes			
Maximum Motor Volts (V)	26			
Motor Short circuit Test	Yes			
DCI Options				
DCI Type	Swivel			
DCI Operation	Normally			
DCI Speed Limit 1 (%)	50			
DCI Speed Limit 2 (%)	50			
DCI Speed Limit 3 (%)	50			
OBC Inhibit Operation	Off			
Seat Options				
Seat Control Type	Switched			
Seat 1 Current (A)	0.0			
Seat 1 Speed (%)	100			
Seat 1 Boost Level (%)	100			
Seat 1 Boost Time (s)	2.0			
Seat 2 Current (A)	0.0			
Seat 2 Speed (%)	100			
Seat 2 Boost Level (%)	100			
Seat 2 Boost Time (s)	2.0			
Actuator Stall Time (s)	0.5			
Actuator While Charging	Yes			
Miscellaneous Settings				
Thermal Rollback Start (°C)	60			
Thermal Rollback End (°C)	75			
FET Thermal Rollback Start (°C)	80			
FET Thermal Rollback End (°C)	90			

2.2 Standard program for the Ibis XP with rear-wheel drive

General settings	RWD			
Lowest Forward Speed (%)	10			
Lowest Turning Speed (%)	10			
Sleep Timer (Min)	0			
Wakeup Style	Joystick			
Beep on Key press	Yes			
Speed Button Sensitivity	5			
Joystick Throw	Normal			
Joystick Switch Threshold (%)	40			
Lock Enable	No			
Field Programmability	Full			
Active Drive Program	Program 1			
Emergency Deceleration (%)	60			
Speedo Display	Maximum Speed			
Indicator Auto-cancel	15 sec			
Drive Programs	Program 1	Program 2	Program 3	
Drive Program Name	RWD	Med Chair	FWD	
Maximum Forward Speed (%)	95	95	95	
Forward Acceleration (%)	25	25	25	
Forward Deceleration (%)	55	55	45	
Maximum Reverse Speed (%)	40	40	40	
Reverse Acceleration (%)	30	30	30	
Reverse Deceleration (%)	55	55	55	
Maximum Turning Speed (%)	30	30	20	
Turning Acceleration (%)	20	20	10	
Turning Deceleration (%)	60	60	40	
Tremor Damping (%)	40	40	40	
Load Compensation (mOhm)	80	80	80	
Maximum Load Compensation (mOhm)	400	400	400	
Active Stability Profile	Profile 1	Profile 3	Profile 3	
Traction (%)	0	0	50	
Attendant Drive Program				
Maximum Forward Speed (%)	100			
Forward Acceleration (%)	40			
Forward Deceleration (%)	60			
Maximum Reverse Speed (%)	50			
Reverse Acceleration (%)	35			
Reverse Deceleration (%)	70			
Maximum Turning Speed (%)	50			
Turning Acceleration (%)	40			
Turning Deceleration (%)	60			
Tremor Damping (%)	40			
Joystick Swap Forward/Reverse	No			
Joystick Swap Left/Right	No			
Stability Profiles 1 to 4	Profile 1	Profile 2	Profile 3	Profile 4
Stability Profile Name	RWD	Lo Chair	Med Chair	FWD
Maximum Speed in turn (%)	100	15	5	5
Speed Acceleration Scalar (%)	0	0	0	0
Turning Acceleration Scalar (%)	0	0	0	0
Turning at Maximum Speed (%)	100	100	40	40
Turning Acceleration at Maximum Speed (%)	100	100	100	100
Traction at Maximum Speed pot (%)	0	0	0	0
FWD/RWD Swivel	No	No	No	No

Stability Profiles 5 to 8	Profile 5	Profile 6	Profile 7	Profile 8
Stability Profile Name	NoCT Swivel	LoCT Swivel	MedCT Swivel	HiCT Swivel
Maximum Speed in turn (%)	100	15	10	5
Speed Acceleration Scalar (%)	0	0	0	0
Turning Acceleration Scalar (%)	0	0	0	0
Turning at Maximum Speed (%)	100	100	100	100
Turning Acceleration at Maximum Speed (%)	100	100	100	100
Traction at Maximum Speed pot (%)	0	0	0	0
FWD/RWD Swivel	No	No	No	No
Motor/Brake				
Parking brake Type	Dual			
Software Current Limit (A)	40			
Boost Current (A)	15.0			
Boost Time (s)	10			
Stall Timeout (s)	15			
Spring Compensation	Off			
Motor swap	Yes			
Left Motor Invert	No			
Right Motor Invert	No			
Enable Soft Start	Yes			
Maximum Motor Volts (V)	26			
Motor Short circuit Test	Yes			
DCI Options				
DCI Type	Swivel			
DCI Operation	Normally			
DCI Speed Limit 1 (%)	50			
DCI Speed Limit 2 (%)	50			
DCI Speed Limit 3 (%)	50			
OBC Inhibit Operation	Off			
Seat Options				
Seat Control Type	Switched			
Seat 1 Current (A)	0.0			
Seat 1 Speed (%)	100			
Seat 1 Boost Level (%)	100			
Seat 1 Boost Time (s)	2.0			
Seat 2 Current (A)	0.0			
Seat 2 Speed (%)	100			
Seat 2 Boost Level (%)	100			
Seat 2 Boost Time (s)	2.0			
Actuator Stall Time (s)	0.5			
Actuator While Charging	Yes			
Miscellaneous Settings				
Thermal Rollback Start (°C)	60			
Thermal Rollback End (°C)	75			
FET Thermal Rollback Start (°C)	80			
FET Thermal Rollback End (°C)	90			

2.3 Electrical wiring diagram of the XP



2.4 Error codes of the XP fault table

Check the malfunction/signal with the aid of the following list.

Flash	Description	
1	User Fault	Possible stall timeout or user error
2	Battery Fault	Check the batteries & cabling
3	Left Motor Fault	Check the left motor connections & cabling
4	Right Motor Fault	Check the right motor connections & cabling
5	Left Parking Brake Fault	Check the left parking brake connections & cabling
6	Right Parking Brake Fault	Check the right parking brake connections & cabling
7	SHARK Control Unit Fault	Check the SHARK Communications Bus
8	SHARK Power Module Fault	Check the SHARK connections & wiring
9	SHARK Communications Fault	Check the SHARK connections & wiring
10	Unknown Fault	Check all connections & wiring
11	Incompatible Control Unit	Wrong type of Control Unit Connected

2.5 Fully discharged PowerSupport

Normally the PowerSupport starts charging when the charger is connected. If this does not happen, the PowerSupport may be fully discharged. To activate the PowerSupport external voltage is needed. The motor can serve as a source for this. Connect the charger and turn the wheel calmly round. Increase speed slowly until the led lights flashes on the control unit. Because the charger is already connected, the PowerSupport will start charging. Please note: the PowerSupport must be fully charged.

Please feel free to contact one of our service engineers if you have any further questions.

2.6 Authorised service and technical support

If you have any problems or questions concerning this product, please contact your dealer.
Ask us for information about your nearest dealer.

Manufacturer:	Handicare
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Supplier's stamp

3 Use of the parts lists

This document is meant as a reference book to be used to order parts for the wheelchair that is shown on the front cover.

How to order:

When ordering parts, please specify:

- Serial number (see the identification plate)
- Group (to which the relevant part belongs)
- Article number
- Number of parts required
- Description (in the relevant language)
- Dimensions (if applicable)

Remark:

- If a part does not have a position number, it means that the part concerned cannot be purchased separately. The part concerned is part of the assembly shown. This assembly must be ordered as one piece. It has to be replaced in its entirety.
- Boxed position numbers refer to the relevant drawing.

Order address:

Please mail or fax your orders to your supplier.

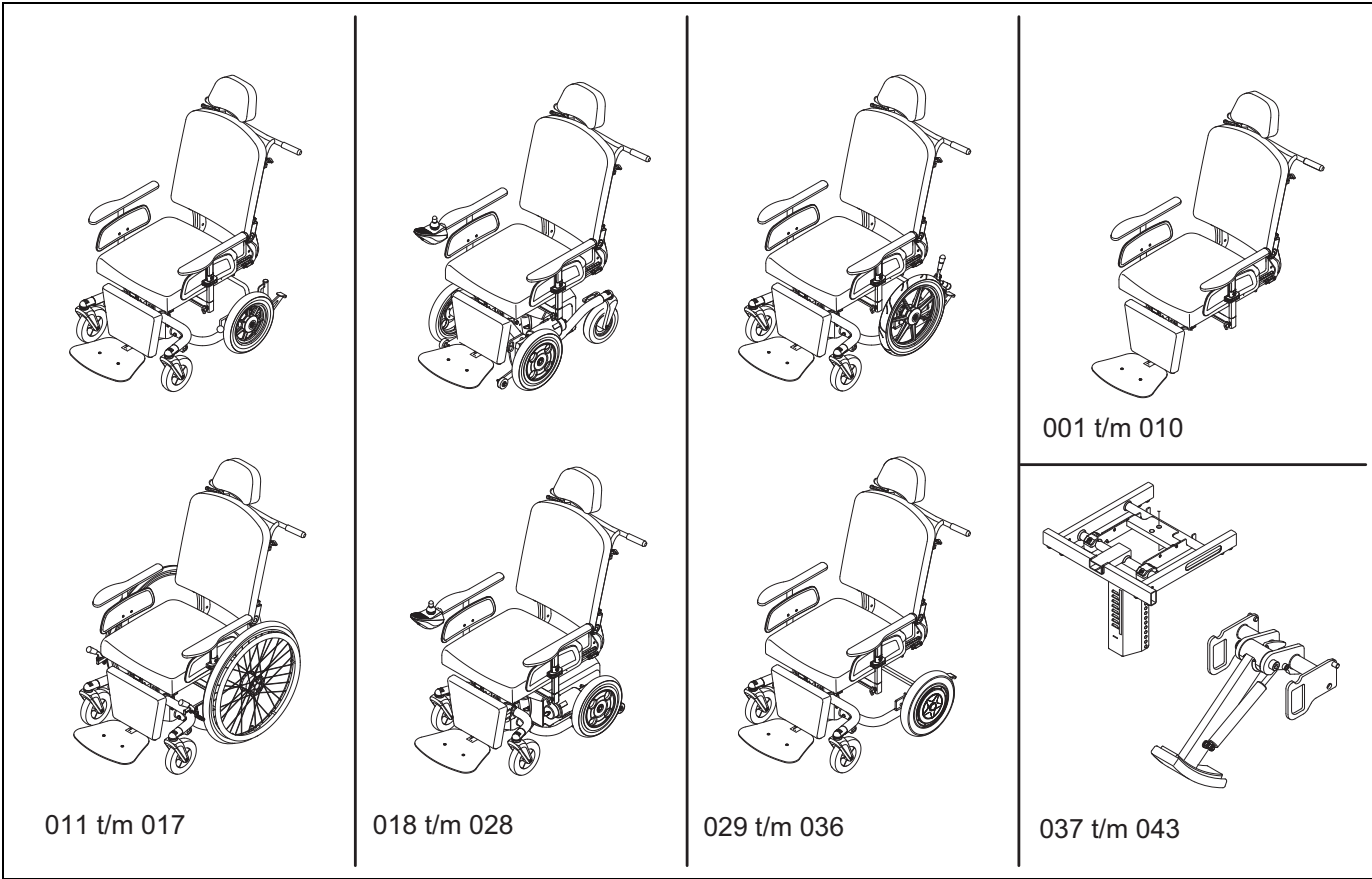
Service technicians:

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.

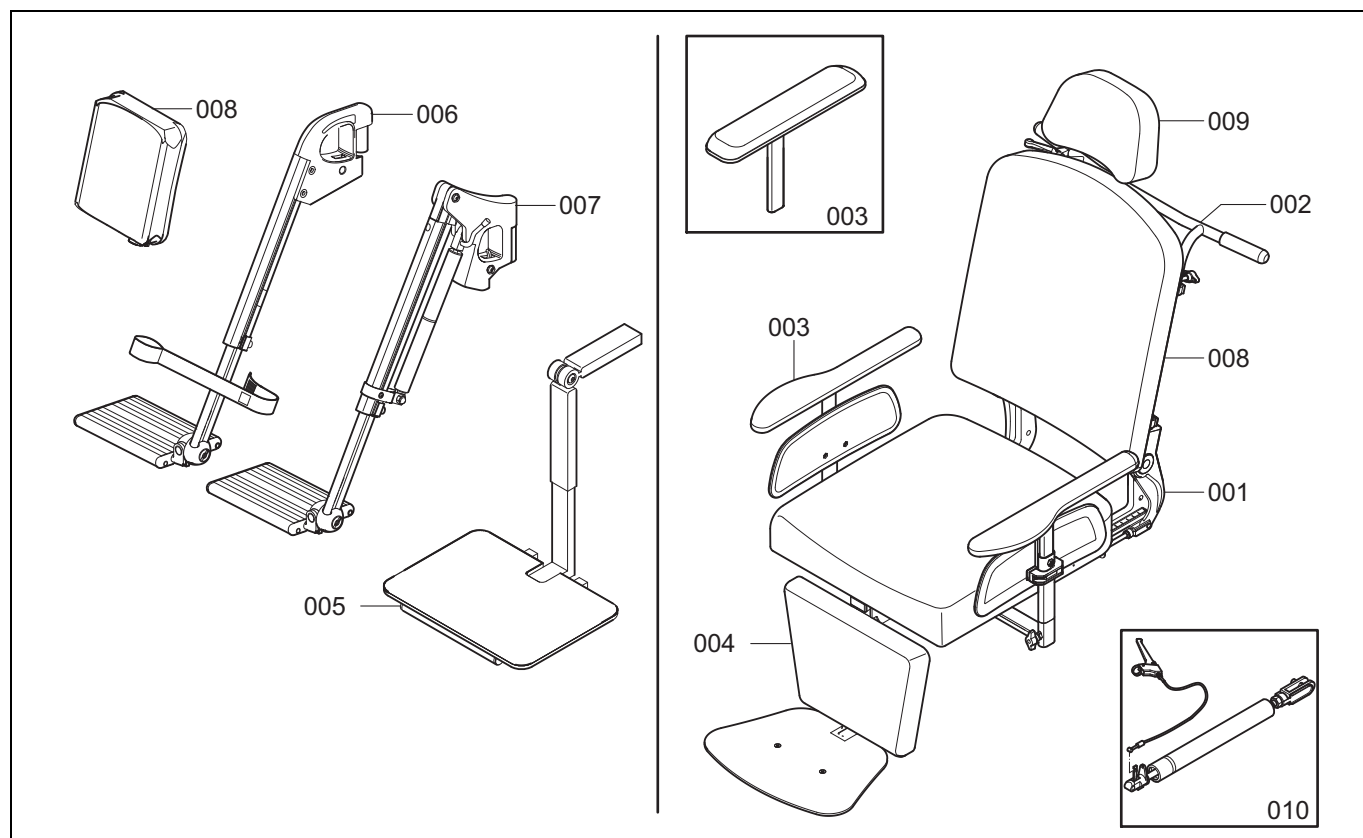
Temporary employees and persons in training may only carry out repair and replacement work under the supervision of an authorised service technician.

• Overview



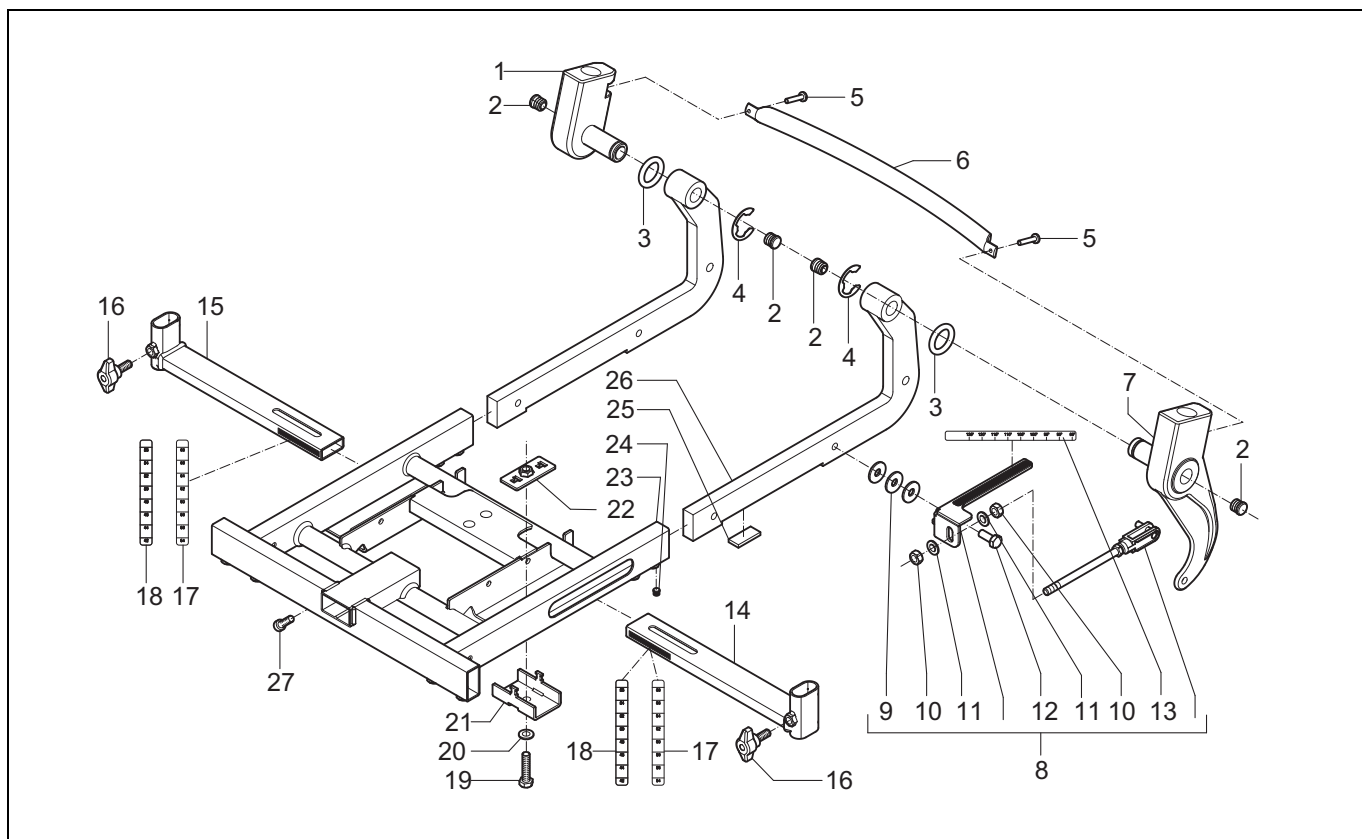
Drawing	Description	Page
001-010	Sedeo	26-39
011-017	Ibis XA/XC	40-47
018-028	Ibis XP	48-61
029-036	Ibis XC 16" and Ibis XC Power Support	62-68
037-043	Options, wiring and modules	69-76

3.1 SEDEO



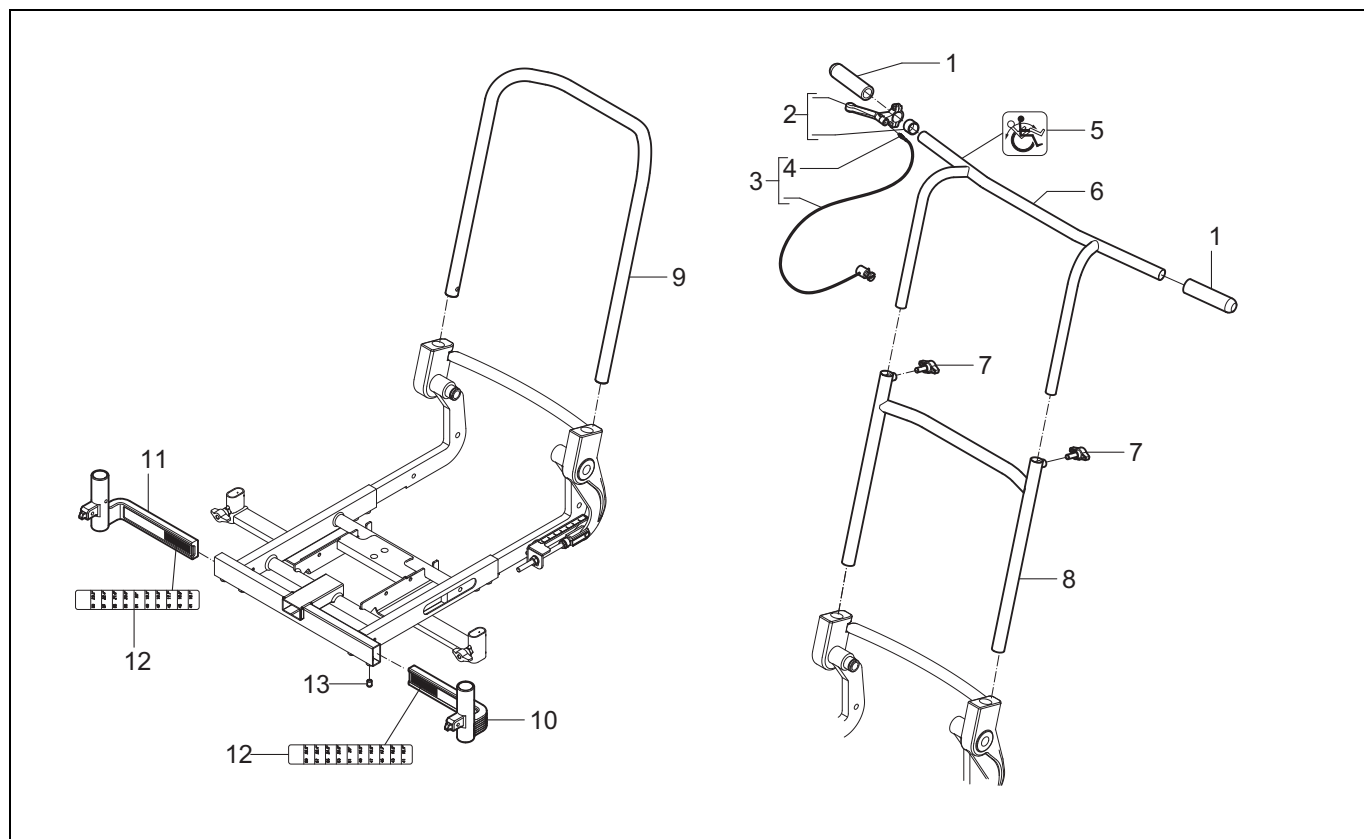
Drawing	Description	Page
001	Sedeo seating frame	27
002	Upper part	28
003	Armrest XA XC XP	29
004	Central legrest XA/XC	30
005	Central legrest XP	31
006	Standard leg rest	32
007	Comfort mechanical leg rest	33
008	Seat / backrest / calf plate	35
009	Head rest	38
010	Gas spring backrest adjustment	39

- 001: Sedeo seating frame



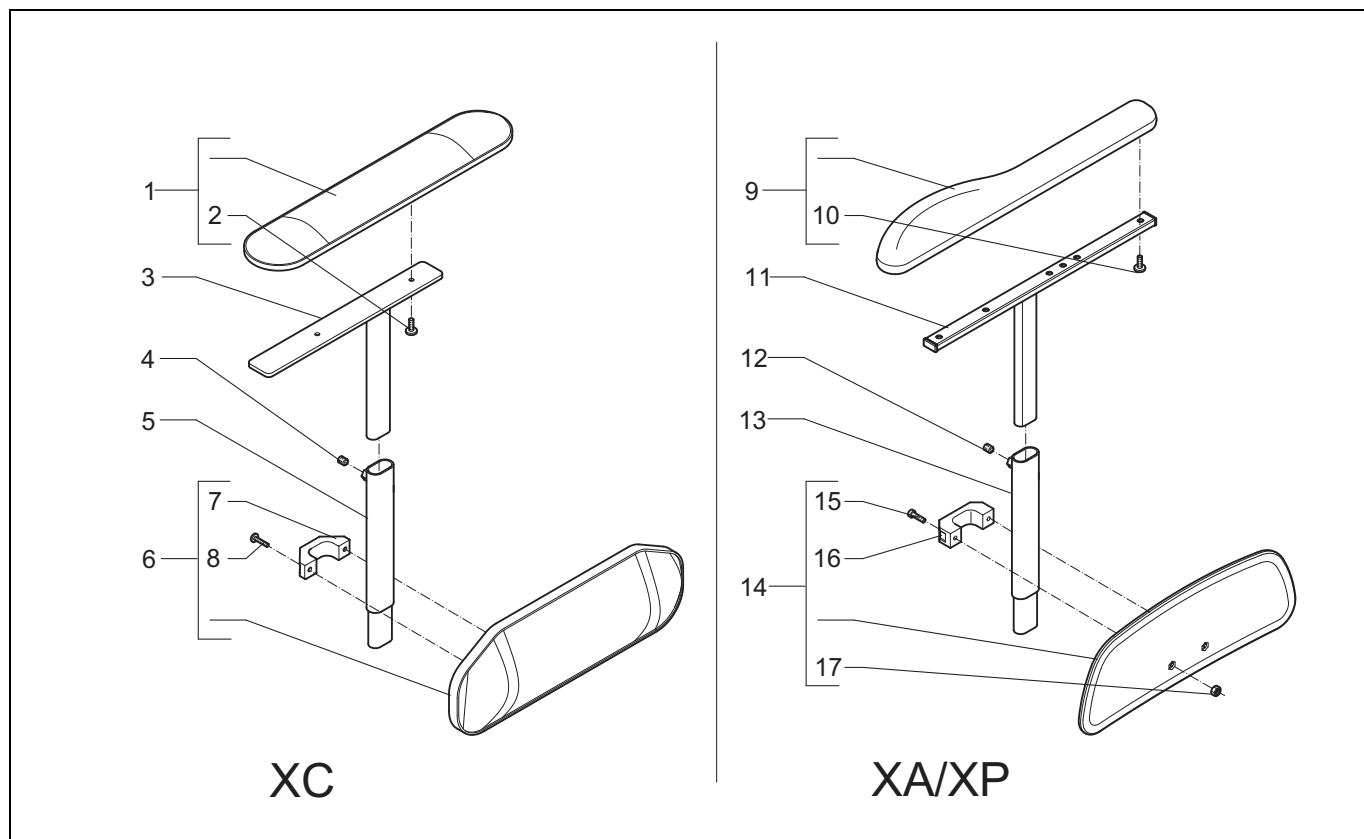
Pos	Article number	Units	Description	Price p/p 2008
1	02030.4123	1	Back part 2 Sedeo short back arm	€ 33,00
2	00000.9009	4	Insert cap round 15 black	€ 0,20
3	00001.0204	2	Washer	€ 0,60
4	00000.1401	2	Shaft lock washer 15mm	€ 2,20
5	00000.3728	2	Button head M8X12	€ 0,70
6	02030.3423	1	Back tube	€ 21,00
7	02030.4223	1	Back part 2 Sedeo long back arm	€ 35,00
8	1008035	1	Backrest adjustment assy, Ibis X-series	€ 38,00
9	00000.2103	3	Washer flat 3XD M8	€ 0,20
10	00000.1502	2	Hex Nut M8	€ 0,20
11	00000.2003	2	Washer flat M8	€ 0,20
12	00000.4135	1	Hex. Bolt M8x25	€ 0,20
13	1003247	1	Label back rest angle (sticker sheet)	€ 5,50
14	9001146	1	Armrest holder left, Ibis X-series	€ 50,00
	9001181	1	Ext. armrest holder left, Ibis X-series	€ 54,00
15	9001180	1	Arm holder right, Ibis X-series	€ 50,00
	9001182	1	Ext. armrest holder right, Ibis X-series	€ 54,00
16	00000.6801	2	Wing bolt M8X20; L=40	€ 1,80
17	1003247	2	Label width adj. arm rest (standard), Ibis X (sticker sheet)	€ 5,50
18	1003247	2	Label width adj. arm rest (wide), Ibis X-ser. (sticker sheet)	€ 5,50
19	00000.4113	2	Hex bolt M8X35	€ 0,30
20	00000.2103	2	Washer flat 3xD M8	€ 0,20
21	9001142	2	Armrest clamp plate, Ibis X-series	€ 13,00
22	9001145	2	Nut plate weld assy, Ibis X-series	€ 8,40
23	9000951	1	Sedeo seating frame, Ibis X-series	€ 179,00
24	00000.3519	4	Adjusting screw M8X10	€ 0,20
25	9000673	2	Clamping plate, Sedeo	€ 2,70
26	02030.4023	2	Back part 1 Sedeo	€ 31,00
27	00000.4002	1	Socket screw M8X16	€ 0,30

- 002: Upper part



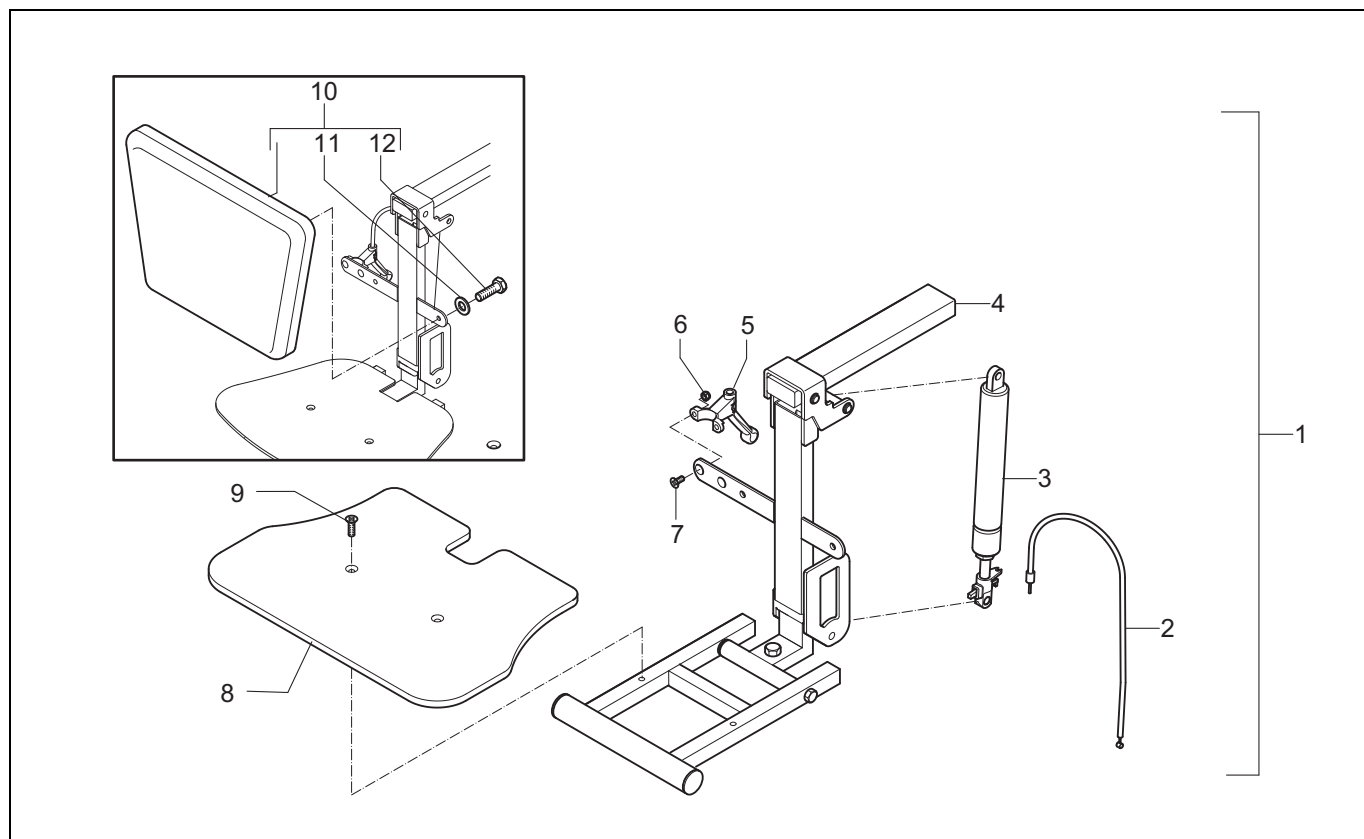
Pos	Article number	Units	Description	Price p/p 2008
1	00000.4801	2	Handle black	€ 5,50
2	1007008	1	Handle mechanical seat adj.	€ 12,00
3	1008057	1	Mechanical cable	€ 12,00
4	1007684	1	Adjusting nipple	€ 1,90
5	00001.1400	1	Label tilt adjustment	€ 0,50
6	02030.0111	1	Handlebars	€ 88,00
7	00000.6801	2	Wing bolt M8X20; L=40	€ 1,80
8	1001834	1	Back frame	€ 85,00
9	9001374	1	Push frame small XP	€ 59,00
10	9001155	1	Leg rest holder left, Ibis X-series	€ 41,00
11	9001156	1	Leg rest holder right, Ibis X-series	€ 41,00
12	1003247	2	Label leg rest width, Ibis X-series (sticker sheet)	€ 5,50
13	00000.3501	4	Adjusting screw M8X10	€ 0,70

- 003: Armrest XA XC XP



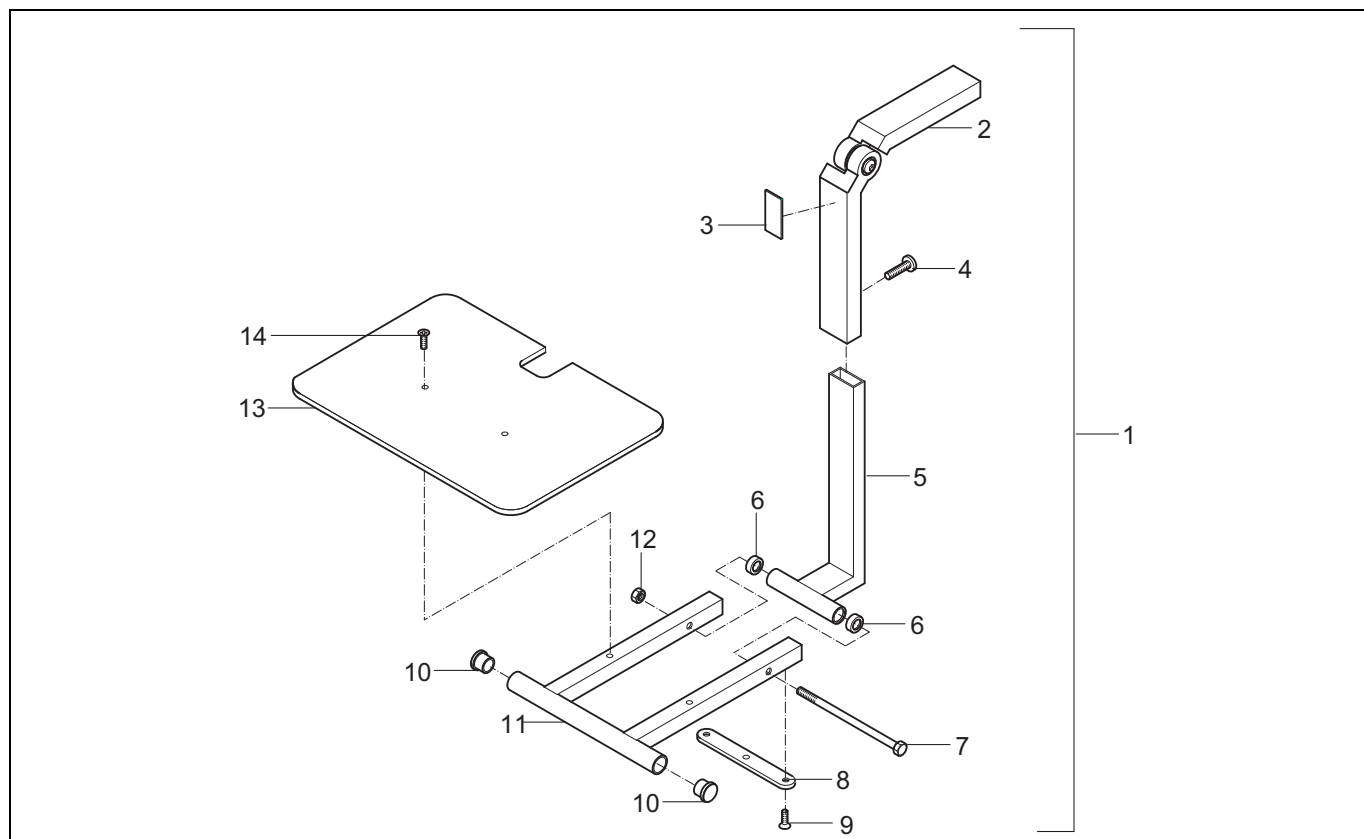
Pos	Article number	Units	Description	Price p/p 2008
1	221.00111.505	2	Armrest 40 cm	€ 50,00
2	00000.3206	4	Screw M5X16	€ 0,30
3	02040.0311	2	Upper part long	€ 31,00
4	00000.3541	2	Adjusting screw M8X10	€ 0,70
5	02040.0223	2	Centre piece	€ 27,00
6	224.00241.505	2	Side cushion	€ 47,00
7	02040.0782	2	Bracket	€ 8,40
8	00000.3207	4	Screw M5X20	€ 0,30
9	1008038	1	PU armrest soft, left, XA/XP	€ 48,00
	1008037	1	PU armrest soft, right, XA/XP	€ 48,00
10	1003060	4	Thread cutting screw M5x16	€ 0,30
11	9000956	2	Armrest holder, Ibis X-series	€ 28,00
12	02040.0223	2	Centre piece	€ 27,00
13	00000.3541	2	Adjusting screw M8X10	€ 0,70
14	1008039	2	Side plate standard, Ibis XA/XP	€ 37,00
15	00000.3206	4	Screw M5X16	€ 0,30
16	02040.0782	2	Bracket	€ 8,40
17	00000.1700	4	Locknut M5	€ 0,20

- 004: Central legrest XA/XC



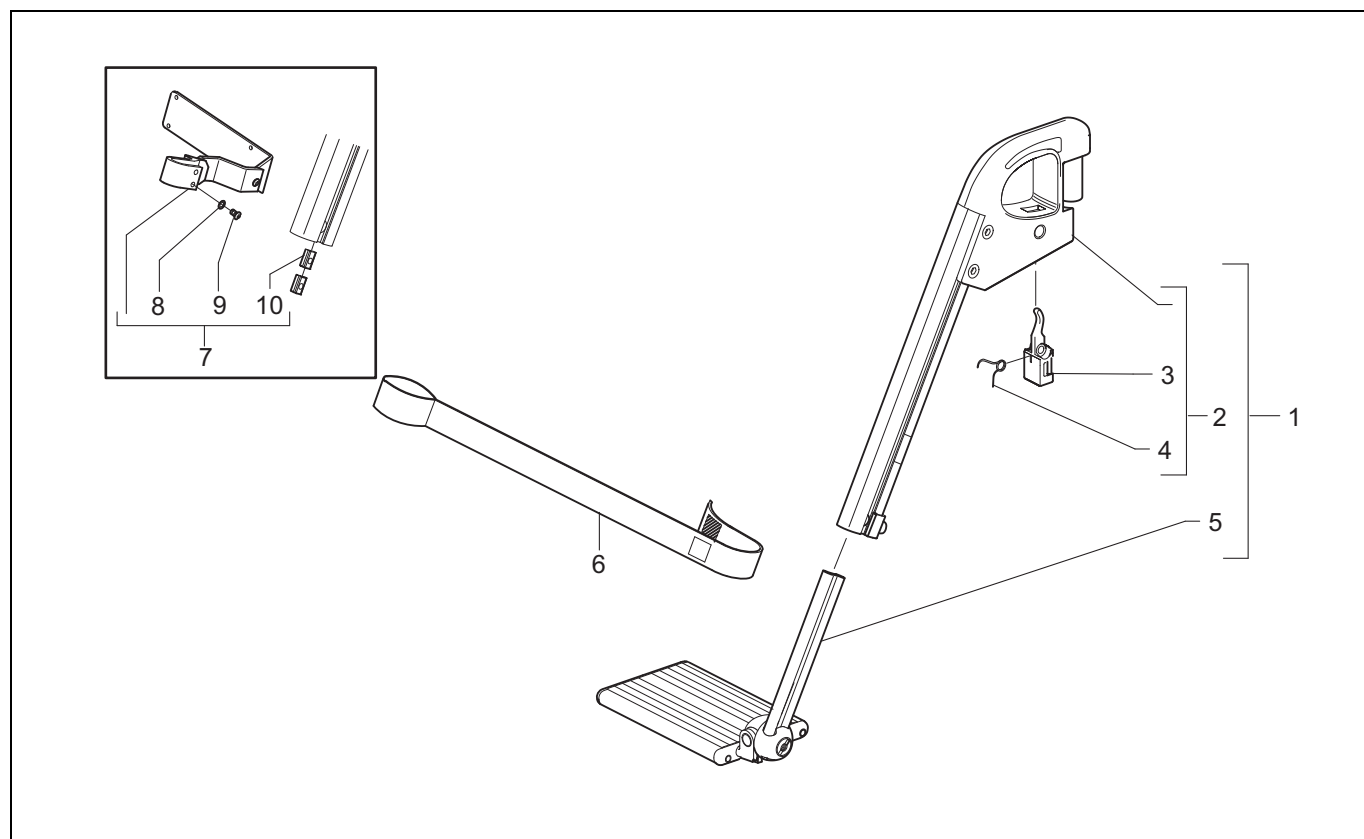
Pos	Article number	Units	Description	Price p/p 2008
1	1001087	1	Central legrest	€ 230,00
2	9001218	1	Cable	€ 6,80
3	1002808	1	Gas spring bloc-o-lift 400N+unlock+nut	€ 100,00
4	1001086	1	Metalparts central legrest	€ 190,00
5	00000.6410	1	Handle	€ 9,50
6	00000.1700	2	Lock nut M5	€ 0,20
7	00000.3616	2	Screw M5x12	€ 0,20
8	01050.2480	1	Footplate	€ 43,00
9	00000.3614	2	Screw M6x20	€ 0,30
10	220.00201.505	1	Calf pad trapezium	€ 72,00
11	00000.2002	2	Washer flat M6 D125A/VZ	€ 0,20
12	00000.4016	2	Cyl cap screw M6x25	€ 0,20

- 005: Central legrest XP



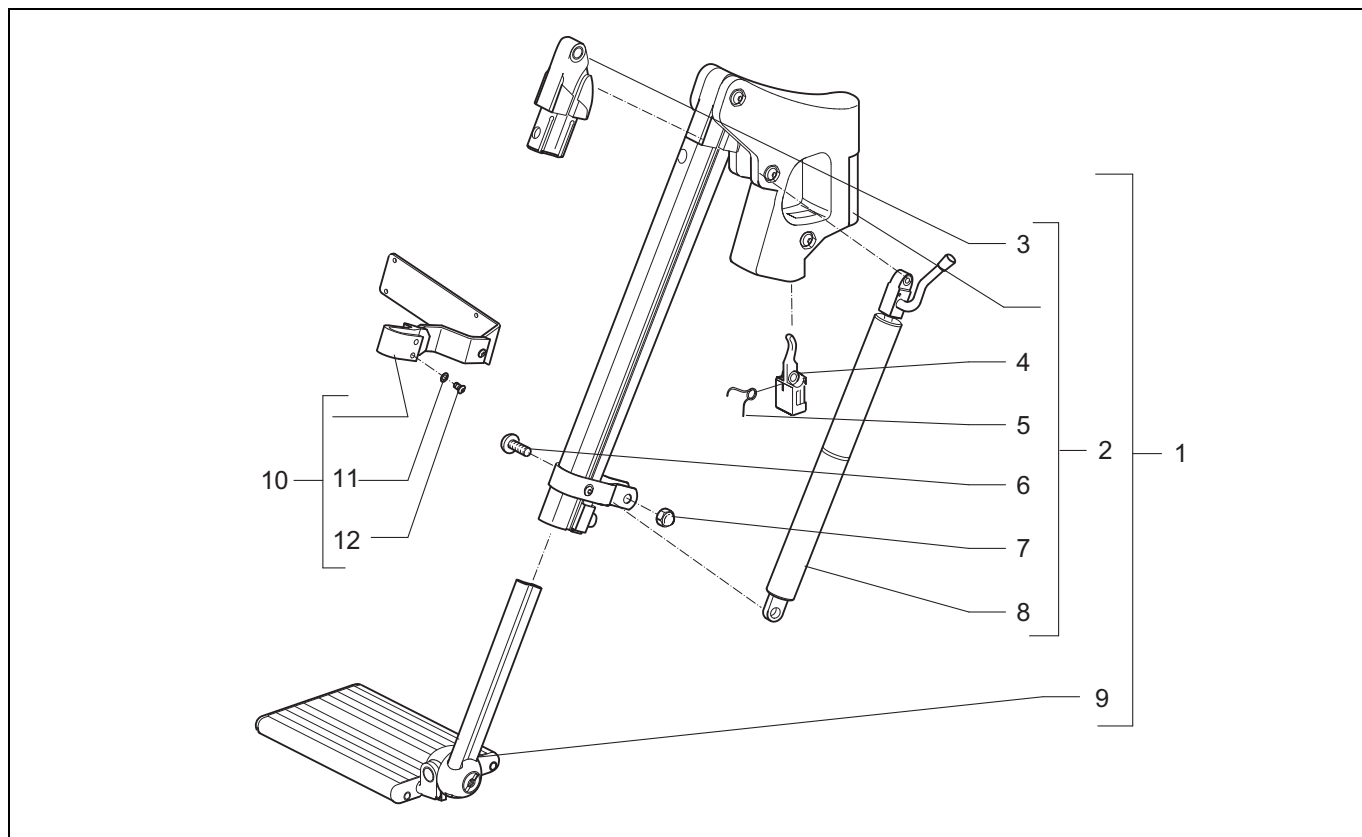
Pos	Article number	Units	Description	Price p/p 2008
1	140.00061.000	1	Central leg rest XP	€ 222,00
2	9001719	1	Upper part hinge	€ 92,00
3	00001.1324	1	Label tilting hazard	€ 1,30
4	00000.3706	1	Button head M8X25	€ 0,40
5	20050.1311	1	Lower tube	€ 50,00
6	00000.5002	2	Bearing bush nylon 8x11x13	€ 0,70
7	00000.4100	1	Hex bolt M8X150	€ 1,10
8	01050.2011	1	Strip	€ 7,60
9	00000.3614	2	Screw M6X20	€ 0,30
10	00000.9002	2	Insert cap round 22 black	€ 0,20
11	01050.1411	1	U-pipe	€ 75,00
12	00000.1702	1	Lock nut M8	€ 0,30
13	20050.2480	1	Footplate	€ 39,00
14	00000.3614	2	Screw M6X20	€ 0,30

- 006: Standard legrest



Pos	Article number	Units	Description	Price p/p 2008
1	-	1	Standard leg rest left See page 34.	-
	-	1	Standard leg rest right See page 34.	-
2	1002515	1	Standard leg rest upper part left	€ 69,00
	1002514	1	Standard leg rest upper part right	€ 69,00
3	01500.1112	2	Legrest release lever	€ 9,50
4	01500.2212	2	Legrest release spring	€ 0,70
5	-	1	Footplate left See page 34.	-
	-	1	Footplate right See page 34.	-
6	01263.9000	1	Calf strap	€ 14,00
7	1004189	2	Calf plate hinge standard	€ 98,00
	1004188	2	Calf plate hinge small	€ 94,00
8	00000.2601	4	Toothed spring washer M6	€ 0,20
9	00000.3725	4	Button head M6X10	€ 0,30
10	01500.2110	4	Leg rest clamping strip short	€ 6,40

- 007: Comfort mechanical legrest



Pos	Article number	Units	Description	Price p/p 2008
1	-	1	Comfort leg rest left See page 34.	-
	-	1	Comfort leg rest right See page 34.	-
2	1002517	1	Comfort leg rest upper part left	€ 224,00
	1002516	1	Comfort leg rest upper part right	€ 224,00
3	01500.4612	2	Hinge comfort leg rest	€ 22,00
4	01500.1112	2	Legrest release lever	€ 9,50
5	01500.2212	2	Legrest release spring	€ 0,70
6	00000.3706	2	Button head M8X25	€ 0,40
7	00000.1802	2	Cap lock nut M8	€ 0,60
8	1008076	1	Gas spring with gas spring control left	€ 131,00
	1008077	1	Gas spring with gas spring control right	€ 131,00
9	-	1	Footplate left See page 34.	-
	-	1	Footplate right See page 34.	-
10	906.00000.031	2	Calf plate hinge standard	€ 85,00
	906.00311.000	2	Calf plate hinge small	€ 85,00
11	00000.2601	4	Toothed spring washer M6	€ 0,20
12	00000.3725	4	Button head M6X10	€ 0,30

- Legrest overview

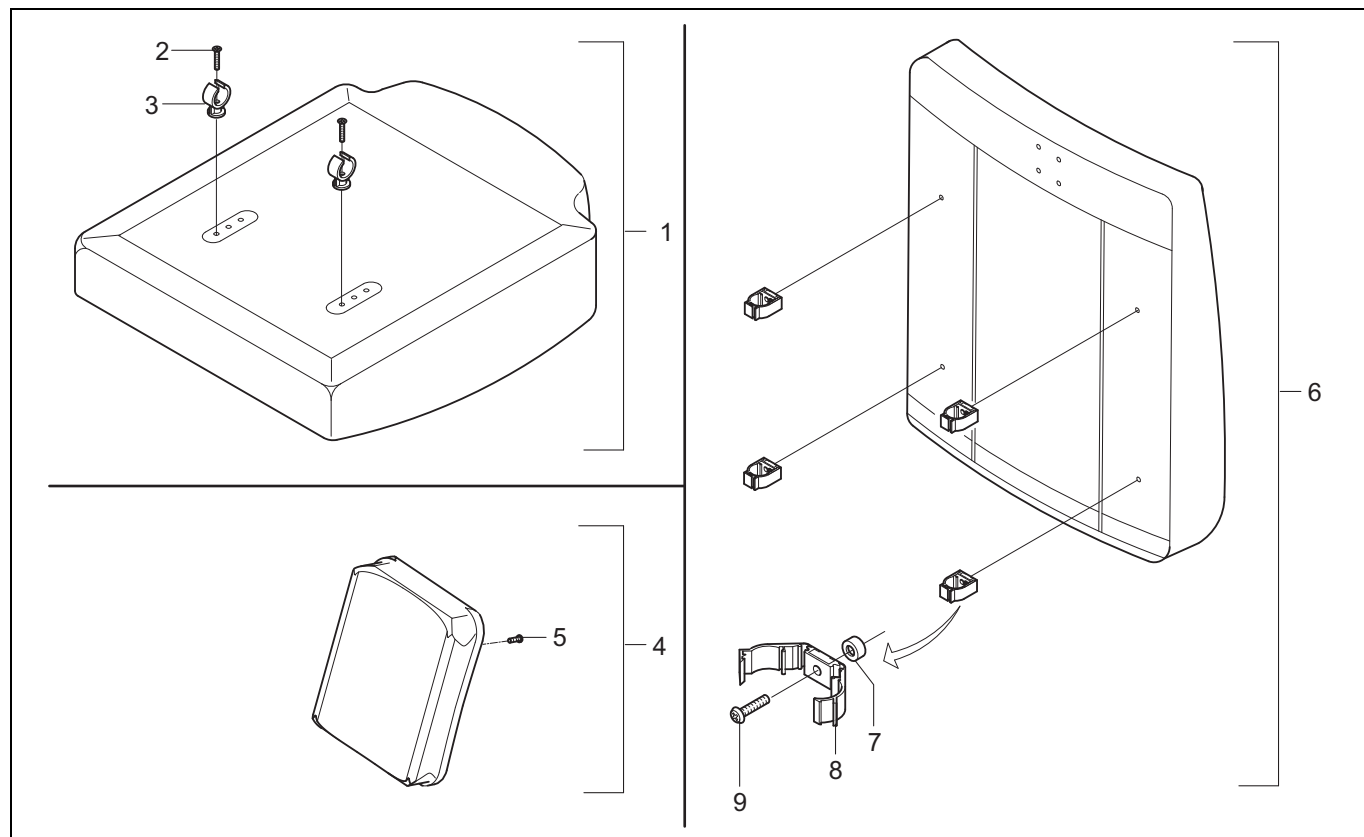
Leg rests 2008

Type	Size	Left	Price	Right	Price	Set with calf plates and leg rest bracket	Price	Set with calf strap and leg rest bracket	Price
Standard	13	1003560	€ 144	1003561	€ 144	1003592	€ 604	1003579	€ 420
	15	1003562	€ 144	1003563	€ 144	1003593	€ 604	1003580	€ 420
	17	01500.9119	€ 144	01500.9019	€ 144	140.00071.000	€ 604	140.00011.000	€ 420
	19	1003564	€ 144	1003565	€ 144	1003594	€ 604	1003581	€ 420
	21	1003566	€ 144	1003567	€ 144	1003595	€ 604	1003582	€ 420
	23	1003568	€ 144	1003569	€ 144	1003596	€ 604	1003583	€ 420
	25	1003570	€ 144	1003571	€ 144	1003597	€ 604	1003584	€ 420
Comfort	13	140.00311.000	€ 316	140.00341.000	€ 316	1003607	€ 875	X	X
	15	140.00321.000	€ 316	140.00351.000	€ 316	1003608	€ 875	X	X
	17	01500.9319	€ 316	01500.9219	€ 316	140.00021.000	€ 875	X	X
	19	140.00331.000	€ 316	140.00361.000	€ 316	1003609	€ 875	X	X
	21	1003598	€ 316	1003601	€ 316	1003610	€ 875	X	X
	23	1003599	€ 316	1003602	€ 316	1003611	€ 875	X	X
	25	1003600	€ 316	1003603	€ 316	1003612	€ 875	X	X

Footplates 2008

	Size	Partnumber	Price
Left	13	140.00191.000	€ 89
	15	140.00201.000	€ 89
	17	140.00131.000	€ 89
	19	140.00211.000	€ 89
	21	1003219	€ 89
	23	1003221	€ 89
	25	1003223	€ 89
Right	13	140.00161.000	€ 89
	15	140.00171.000	€ 89
	17	140.00121.000	€ 89
	19	140.00181.000	€ 89
	21	1003220	€ 89
	23	1003222	€ 89
	25	1003224	€ 89

- 008: Seat / backrest / calf plate



Pos	Article number	Units	Description	Price p/p 2008
1	-	1	Sedeo Seat See page 36.	-
2	00000.3617	2	Screw M5X30	€ 0,20
3	00000.6501	2	Pipe clamp DIA 22 black	€ 2,20
4	220.00121.505	1	Calf plate standard	€ 67,00
	220.00141.505	1	Calf plate small	€ 62,00
5	00000.3206	4	Screw M5X16	€ 0,30
6	-	1	Sedeo backrest See page 36.	-
7	00000.5721	4	Washer flat M6	€ 0,20
8	00000.6504	4	Pipe clamp back closed type	€ 9,50
9	00000.3207	4	Screw M5X20	€ 0,30

- 008: Sedeo seats

SEATS SEDEO 2008

Profiled			Profiled with grey middle bar		Webbed		Memory foam		
W X D		€		€		€		€	W X D
42x50	200.42131.505	144	1002950	144	200.42791.517	279	200.40481.517	307	42x50
46x50	200.42211.505	144	1002951	144	200.42871.517	279	200.40561.517	307	46x50
50x50	200.42291.505	144	1002952	144	200.42951.517	279	200.40641.517	307	50x50

42x54	1001977	242	1002953	242	1001988	376	1001997	404	42x54
42x58	1001978	242	1002954	242	1001989	376	1001998	404	42x58
46x54	1001979	242	1002955	242	1001990	376	1001999	404	46x54
46x58	1001980	242	1002956	242	1001991	376	1002000	404	46x58
50x54	1001981	242	1002957	242	1001992	376	1002001	404	50x54
50x58	1001982	242	1002958	242	1001993	376	1002002	404	50x58
54x50	1001983	242	1002959	242	1001994	376	1002003	404	54x50
54x54	1001984	339	1002960	339	1001995	473	1002004	501	54x54
54x58	1001985	339	1002961	339	1001996	473	1002005	501	54x58

Balance			Pan		Board with rear pan		Arthrodesis		
W X D		€		€		€		€	W X D
42x50	201.47741.517	390	202.41141.505	202	1002054	202	1002066	279	42x50
46x50	201.47821.517	390	202.41221.505	202	1002057	202	203.41221.505	279	46x50
50x50	201.47901.517	390	202.41301.505	202	1002060	202	1002071	279	50x50

42x54	1002024	487	1002033	300	1002055	300	1002067	376	42x54
42x58	1002025	487	1002034	300	1002056	300	1002068	376	42x58
46x54	1002026	487	1002035	300	1002058	300	1002069	376	46x54
46x58	1002027	487	1002036	300	1002059	300	1002070	376	46x58
50x54	1002028	487	1002037	300	1002061	300	1002072	376	50x54
50x58	1002029	487	1002038	300	1002062	300	1002073	376	50x58
54x50	1002030	487	1002039	300	1002063	300	1002074	376	54x50
54x54	1002031	584	1002040	397	1002064	397	1002075	473	54x54
54x58	1002032	584	1002041	397	1002065	397	1002076	473	54x58

Support			Support + Memory foam		Board		Air		
W X D		€		€		€		€	W X D
42x50	205.42791.517	343	205.42811.517	596	1002042	202	1003363	530	42x50
46x50	205.42871.517	343	205.42891.517	596	1002045	202	1003364	530	46x50
50x50	205.42951.517	343	205.42981.517	596	1002048	202	1003365	530	50x50

42x54	1002006	440	1002015	693	1002043	300	Fluid		
42x58	1002007	440	1002016	693	1002044	300			
46x54	1002008	440	1002017	693	1002046	300	1003360	424	42x50
46x58	1002009	440	1002018	693	1002047	300	1003361	424	46x50
50x54	1002010	440	1002019	693	1002049	300	1003362	424	50x50
50x58	1002011	440	1002020	693	1002050	300			
54x50	1002012	440	1002021	693	1002051	300			
54x54	1002013	538	1002022	790	1002052	397			
54x58	1002014	538	1002023	790	1002053	397			

- 008: Sedeo backrests

BACKRESTS SEDEO 2008

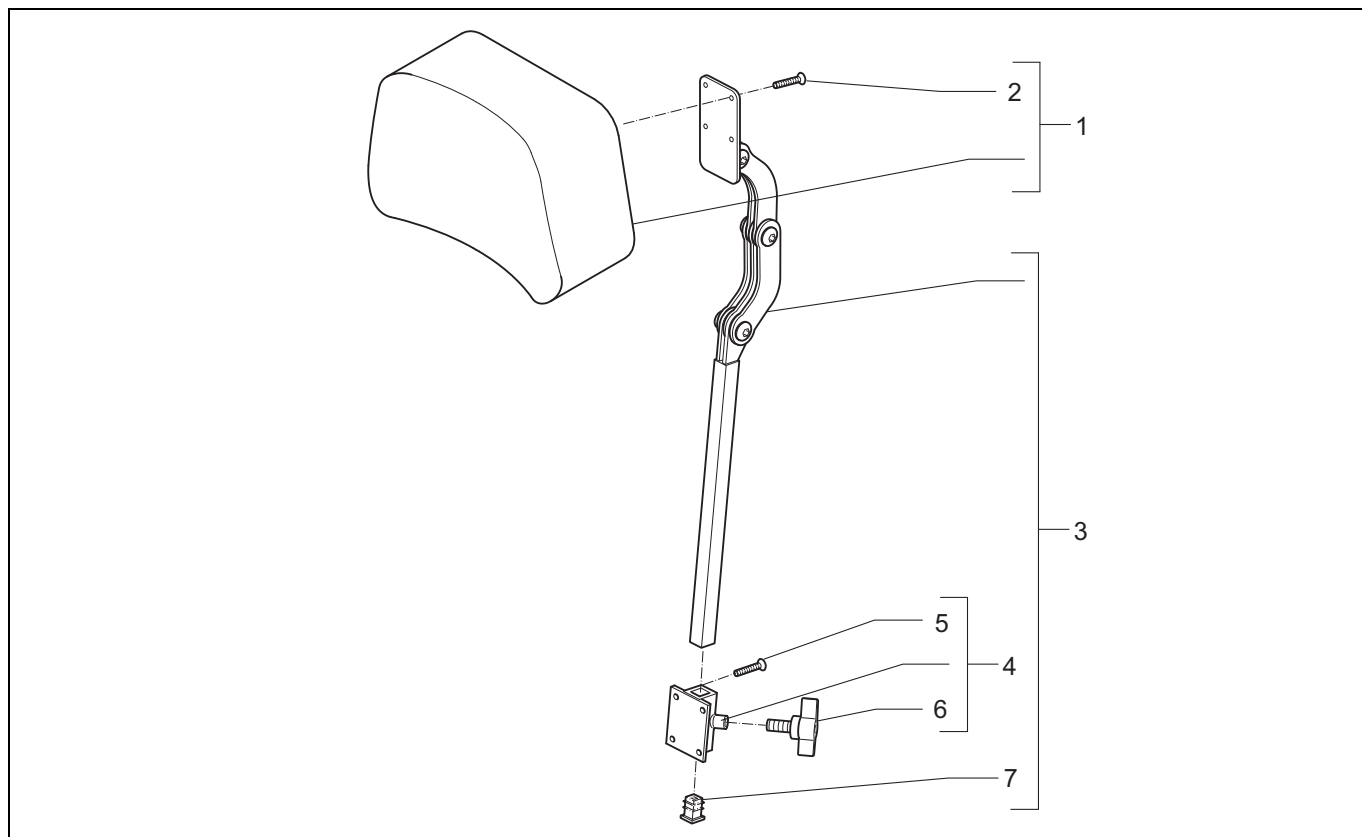
Profiled			Profiled with grey middle bar		Webbed		With lumbar support		
W X D		€		€		€		€	W X D
42x52	207.20031.505	157	1002974	157	207.20751.520	358	215.20031.505	338	42x52
46x52	207.20051.505	157	1002975	157	207.20771.520	358	215.20051.505	338	46x52
50x52	207.20071.505	157	1002976	157	207.20791.520	358	215.20071.505	338	50x52

42x56	1002143	254	1002977	254	1002152	455	1002161	435	42x56
42x60	1002144	254	1002978	254	1002153	455	1002162	435	42x60
46x56	1002145	254	1002979	254	1002154	455	1002163	435	46x56
46x60	1002146	254	1002980	254	1002155	455	1002164	435	46x60
50x56	1002147	254	1002981	254	1002156	455	1002165	435	50x56
50x60	1002148	254	1002982	254	1002157	455	1002166	435	50x60
54x52	1002149	254	1002983	254	1002158	455	1002167	435	54x52
54x56	1002150	351	1002984	351	1002159	552	1002168	532	54x56
54x60	1002151	351	1002985	351	1002160	552	1002169	532	54x60

Support			Extra soft		With straps		With straps, Active		
W X D		€		€		€		€	W X D
42x52	209.20211.505	363	207.20211.520	325	214.20751.520	440	214.23031.520	461	42x52
46x52	209.20231.505	363	207.20231.520	325	214.20771.520	440	214.23041.520	461	46x52
50x52	209.20251.505	363	207.20251.520	325	214.20791.520	440	214.23051.520	461	50x52

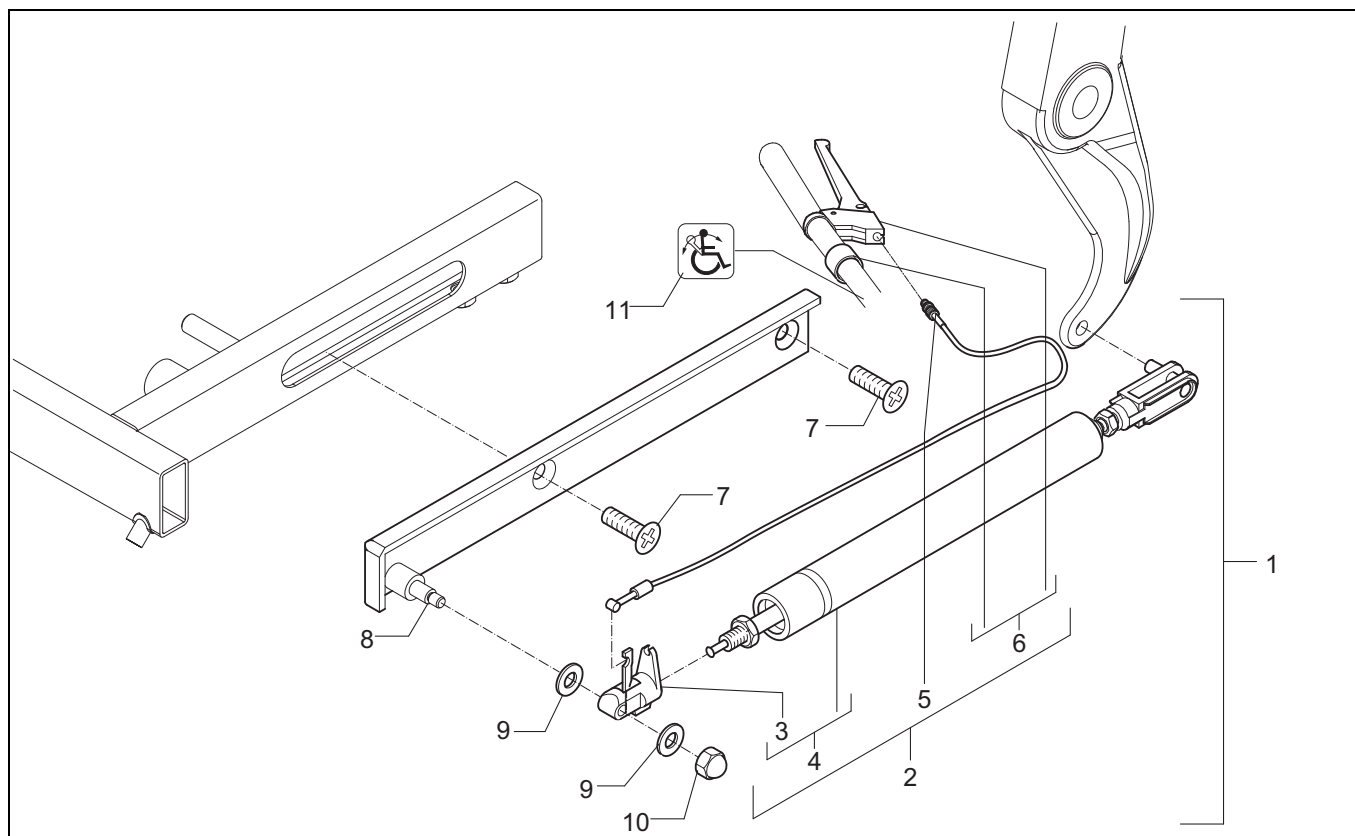
42x56	1002170	460	1002179	423	1002188	538	1002197	558	42x56
42x60	1002171	460	1002180	423	1002189	538	1002198	558	42x60
46x56	1002172	460	1002181	423	1002190	538	1002199	558	46x56
46x60	1002173	460	1002182	423	1002191	538	1002200	558	46x60
50x56	1002174	460	1002183	423	1002192	538	1002201	558	50x56
50x60	1002175	460	1002184	423	1002193	538	1002202	558	50x60
54x52	1002176	460	1002185	423	1002194	538	1002203	558	54x52
54x56	1002177	557	1002186	520	1002195	635	1002204	656	54x56
54x60	1002178	557	1002187	520	1002196	635	1002205	656	54x60

- 009: Headrest



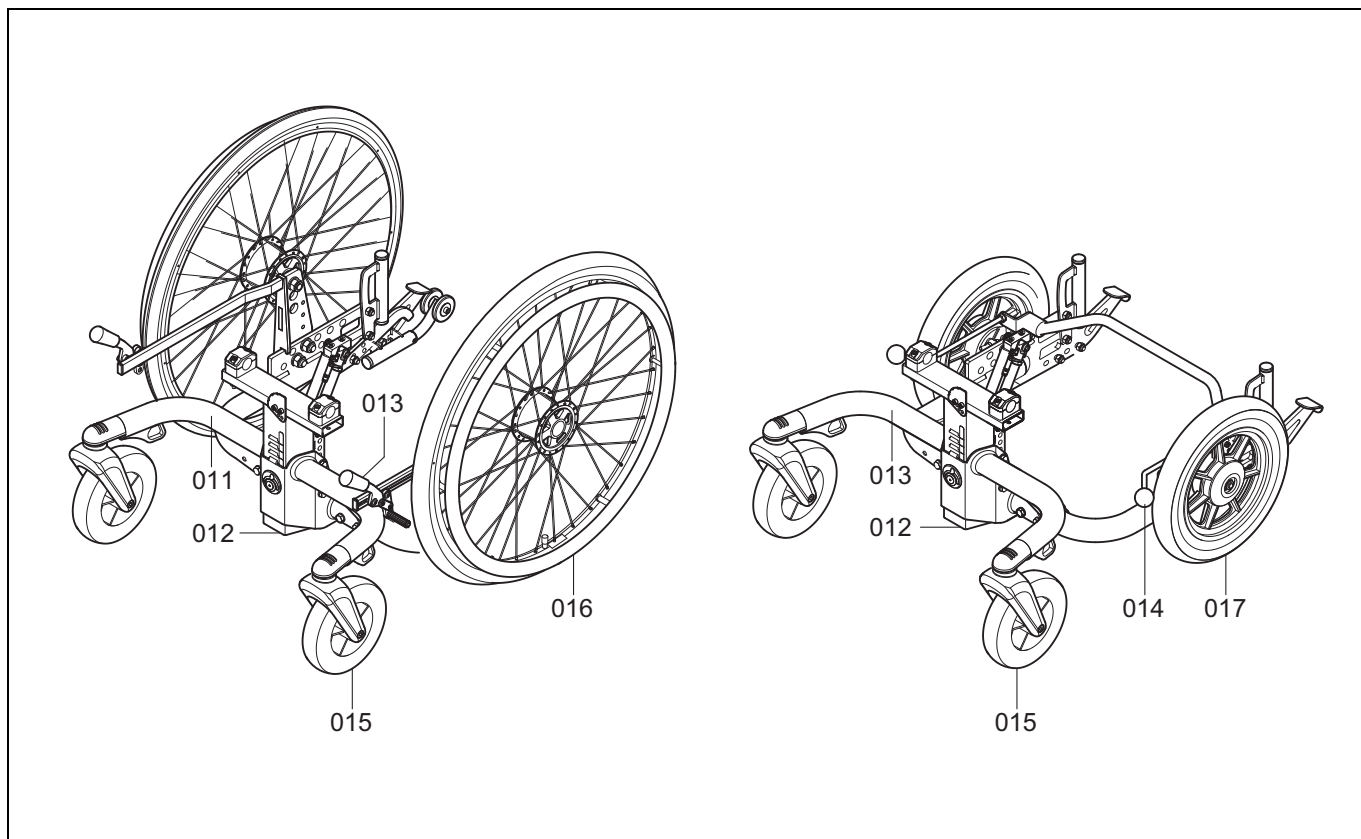
Pos	Article number	Units	Description	Price p/p 2008
1	222.00151.505	1	Headrest type 4, small mode, black Sellaskin	€ 126,00
	222.00131.505	1	Headrest Type 3, Flexible, black Sellaskin	€ 131,00
	222.00111.505	1	Headrest Type 2, Large, black Sellaskin	€ 131,00
2	00000.3206	8	Screw bck/kr M5X16 D7985	€ 0,30
3	02193.0023	1	Metal Section Headrest. Standard Adjustable	€ 109,00
	02194.0023	1	Metal Section Headrest. With Adjustable Width	€ 165,00
	906.00000.161	1	Metal Section Headrest. With angle lever	€ 135,00
4	01183.9023	1	Headrest adjustment holder	€ 34,00
5	00000.3206	8	Screw bck/kr M5X16 D7985	€ 0,30
6	00000.6801	1	Star knob outs M8X30 BLACK MH	€ 1,80
7	00000.9301	1	Insert cap 15mm square	€ 0,30

- 010: Gas spring backrest adjustment



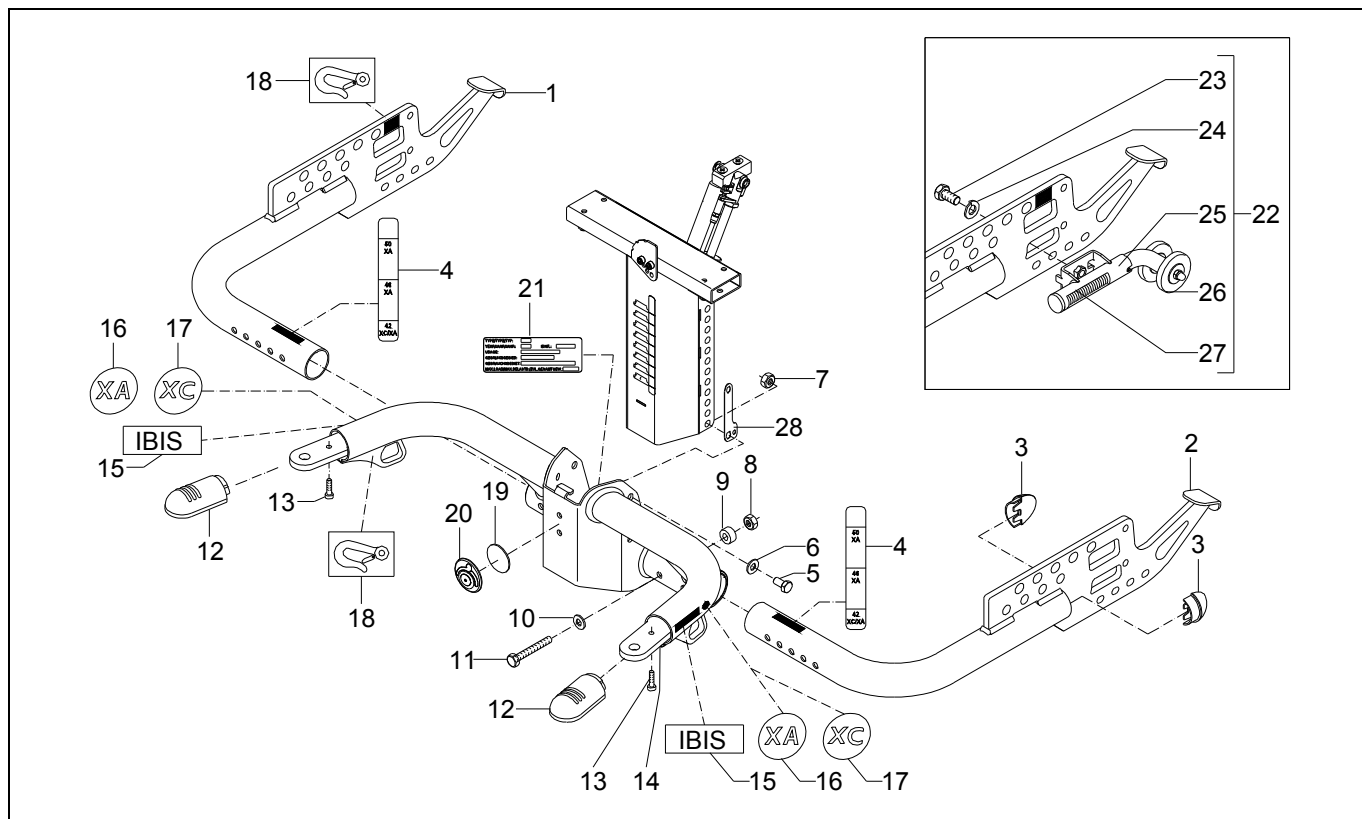
Pos	Article number	Units	Description	Price p/p 2008
1	1003440	1	Gas spring backrest adjustment complete	€ 220,00
2	02152.9200	1	Gas spring backrest adj.	€ 192,00
3	02010.6910	1	Gas spring unlock mechanism	€ 11,00
4	1002813	1	Gas spring bloc-o-lift 200N	€ 96,00
5	1008057	1	Cable	€ 12,00
6	1007008	1	Handle	€ 12,00
7	00001.0914	2	Screw M8X16	€ 0,40
8	00001.0914	2	Bracket backrest adjustment	€ 36,00
9	02030.3523	1	Spring washer fluted M8	€ 0,20
10	00000.2250	2	Cap lock nut M6	€ 0,70
11	00000.1801	1	Label backrest adjustment	€ 0,50

3.2 Ibis XA and Ibis XC



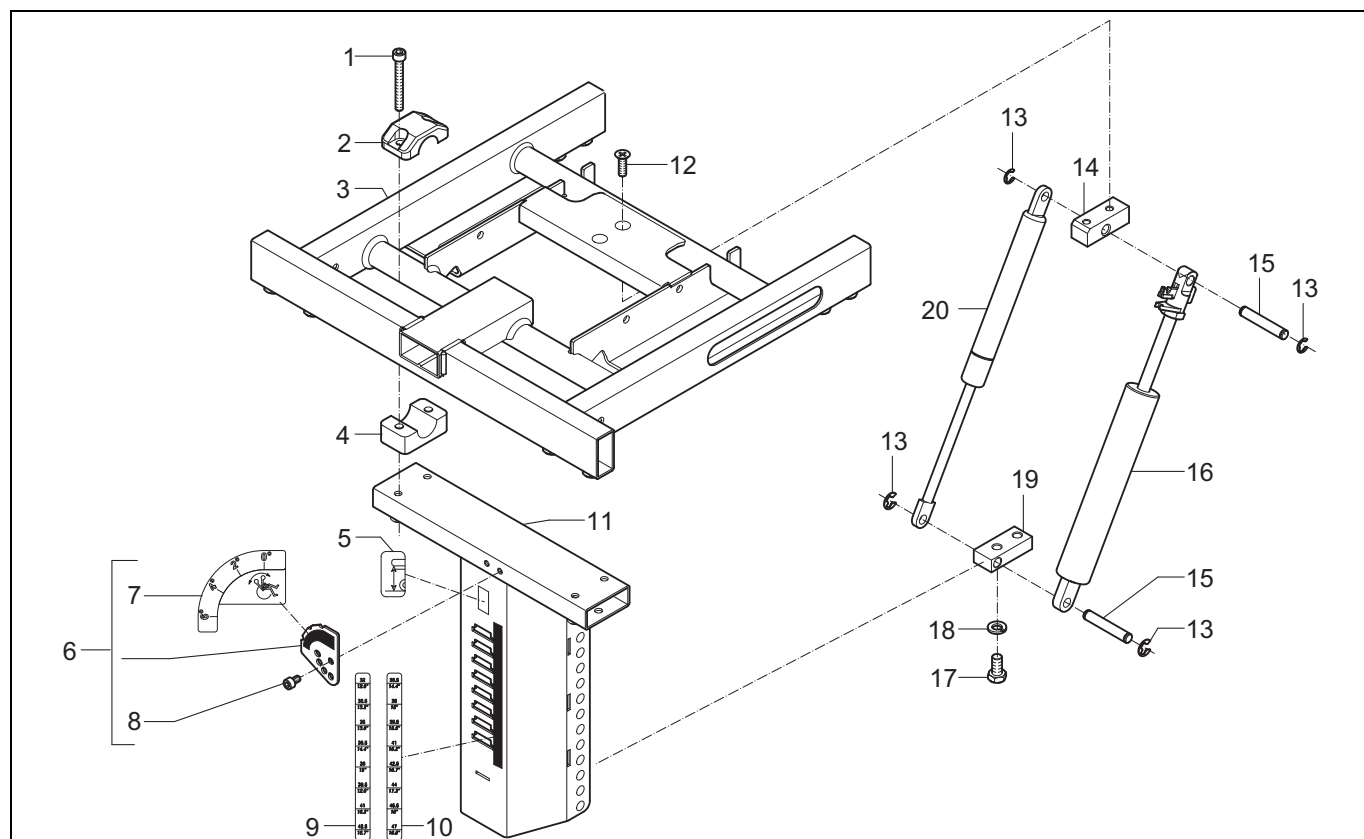
Drawing	Description	Page
011	Carrier	41
012	Seat post	42
013	Brake system XA	43
014	Brake system XC	44
015	Wheel, castor	45
016	Rear wheel XA	46
017	Rear wheel XC	47

- 011: Carrier



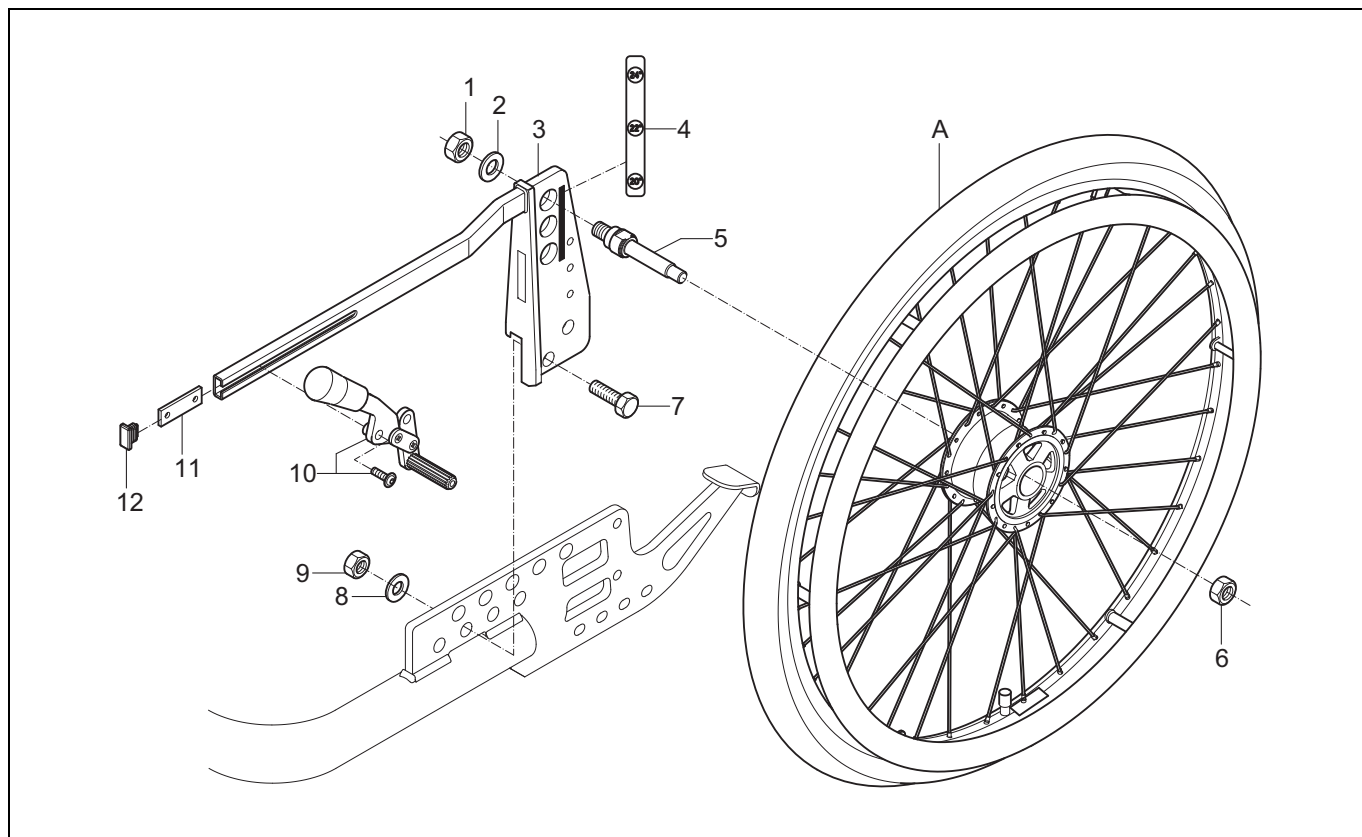
Pos	Article number	Units	Description	Price p/p 2008
1	1008041	1	Carrier rear frame right, assy	€ 147,00
2	1008042	1	Carrier rear frame left, assy	€ 147,00
3	9000943	4	Tube cap frame	€ 3,20
4	1003247	2	Label back rest angle (sticker sheet)	€ 5,50
5	00000.4312	4	Hex bolt M8x16	€ 0,20
6	00000.2003	4	Washer flat M8 D125A/vz	€ 0,20
7	00000.1702	4	Locknut M8 D985/8/vz	€ 0,30
8	00000.1702	4	Locknut M8 D985/8/vz	€ 0,30
9	9001153	4	Spacer 8x13x6	€ 2,20
10	00000.2003	4	Washer flat M8 D125A/vz	€ 0,20
11	00000.4114	4	Hex bolt M8X60	€ 0,30
12	9001140	2	Tube cap	€ 4,20
13	1002789	2	Screw 4X16	€ 0,30
14	1008059	1	Carrier front frame, assy	€ 225,00
15	1002629	2	Label IBIS	€ 4,80
16	1002632	2	Label XA	€ 0,60
17	1002631	2	Label XC	€ 0,60
18	1003247	4	Label back rest angle (sticker sheet)	€ 5,50
19	9000872	1	Adhesive logo button	€ 1,10
20	9002232	1	Logo mp	€ 5,70
21		1	Identification plate	-
22	1008040	1	Anti tip (set)	€ 124,00
23	00000.4311	2	Hexagonal tap bolt M8X20 VZ	€ 0,20
24	00000.2203	2	Spring washer SW8	€ 0,20
25	9000999	2	Anti tip	€ 62,00
26	9001004	4	Anti tip wheel	€ 3,30
27	9001098	2	Anti tip spring	€ 2,00
28	9001978	2	Spacer plate 0,5mm	€ 2,10
	9001980	2	Spacer plate 1,0mm	€ 2,30
	9001981	2	Spacer plate 1,5mm	€ 2,80

- 012: Seat post



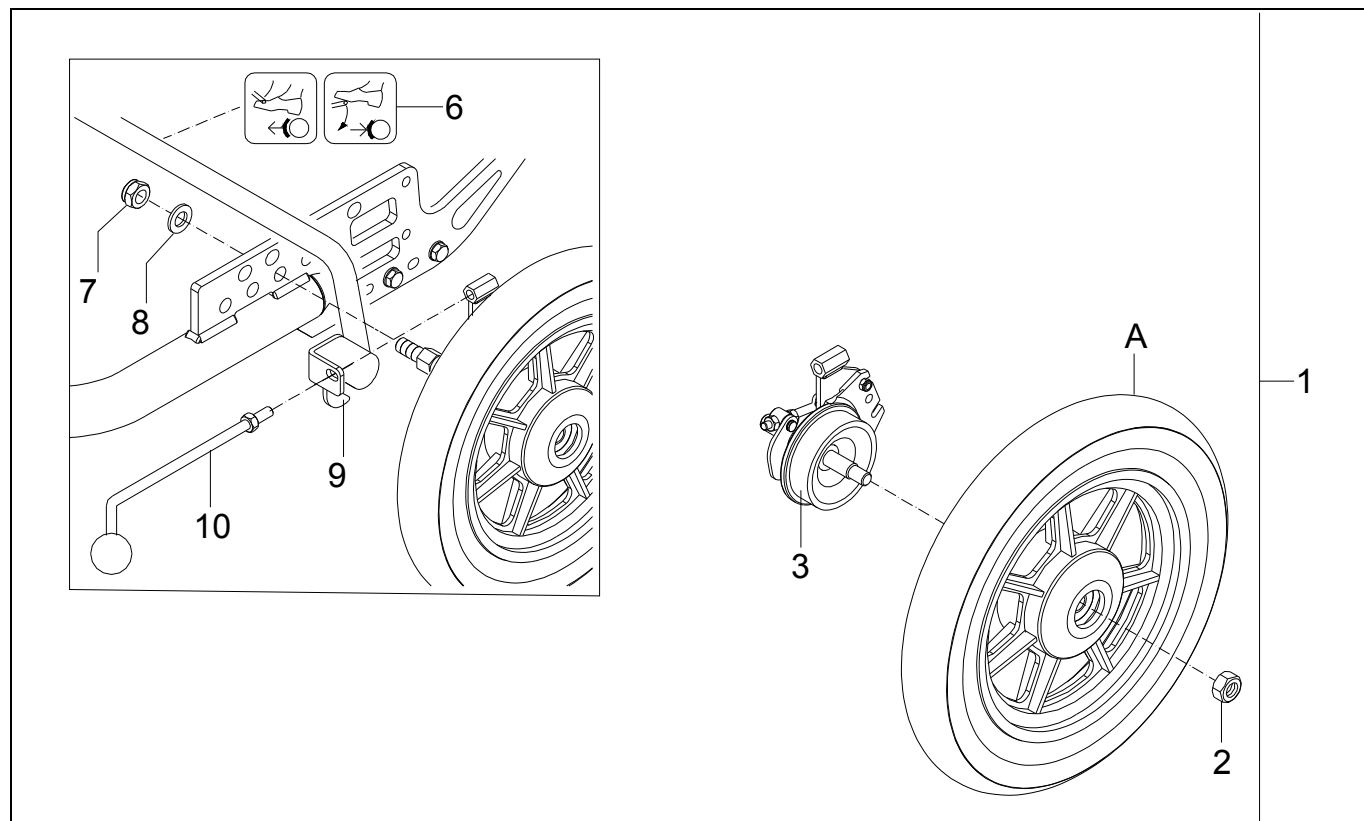
Pos	Article number	Units	Description	Price p/p 2008
1	00000.4014	4	Cyl cap screw M6X50	€ 0,30
2	02010.6182	2	Upper hinge block 22mm	€ 1,60
3	9000951	1	Sedeo seating frame, Ibis X-series	€ 179,00
4	02010.7682	2	Lower hinge block 22mm	€ 1,60
5	1003247	1	Label seat height symbol (sticker sheet)	€ 5,50
6	1008044	1	Seat angle indicator	€ 14,00
7	1003247	1	Label seat angle (sticker sheet)	€ 5,50
8	00000.4036	2	Cyl cap screw M5X12	€ 0,20
9	1003247	1	Label seat height (39-49,5 cm) (sticker sheet)	€ 5,50
10	1003247	1	Label seat height (46,5-54 cm) (sticker sheet)	€ 5,50
11	1007672	1	Seat post short	€ 111,00
	1007673	1	Seat post long	€ 135,00
12	00000.3608	2	Screw M6x12	€ 0,20
13	00000.1404	4	Shaft lock washer 7MM	€ 0,20
14	9001398	1	Hinge block	€ 21,00
15	9001154	2	Axis gas spring	€ 6,30
16	9001043	1	Gas spring bloc-o-lift 1000N	€ 87,00
	9001425	1	Gas spring bloc-o-lift 1000N for hydraulic tilt	€ 87,00
17	00000.4312	2	Hex bolt M8X16	€ 0,20
18	00000.2203	2	Spring washer M8	€ 0,20
19	9001128	1	Gas spring hinge block	€ 17,00
20	9001044	1	Gas spring lift-o-mat 500N	€ 66,00
	9001209	1	Gasveer heavy 700N	€ 79,00

- 013: Brake system XA



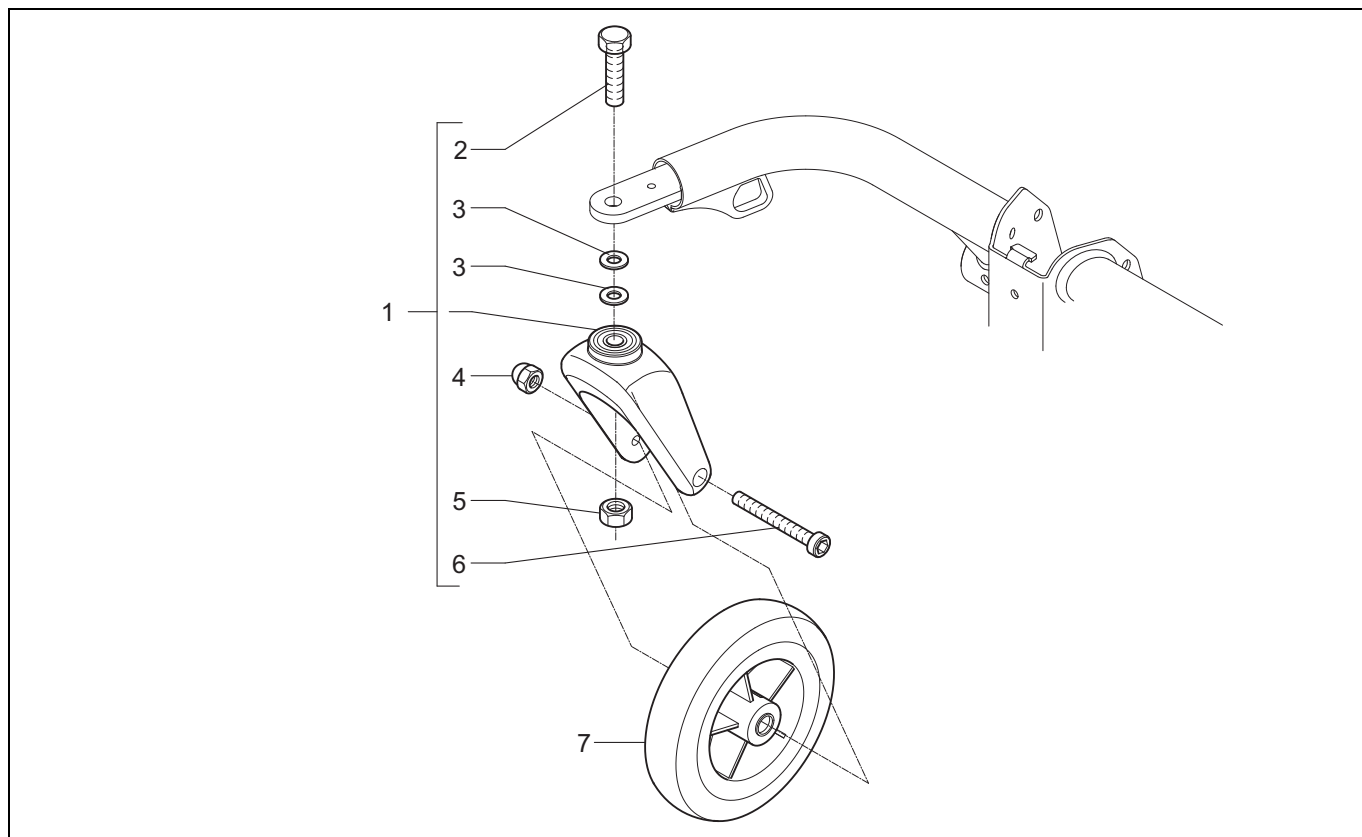
Pos	Article number	Units	Description	Price p/p 2008
1	00000.1704	2	Lock nut M12	€ 0,60
2	00000.2005	2	Washer flat M12	€ 0,30
3	9001025	1	Wheel plate left	€ 71,00
	9001075	1	Wheel plate right	€ 71,00
4	1003247	2	Label wheels (sticker sheet)	€ 5,50
5	9001097	2	Wheel axle	€ 20,00
6	00000.1703	2	Lock nut M10	€ 0,50
7	1002639	4	Hex bolt M12X35	€ 1,10
8	00000.2005	4	Washer flat M12	€ 0,30
9	00000.1704	4	Lock nut M12	€ 0,60
10	9001167	1	Brake assy left	€ 38,00
	9001166	1	Brake assy right	€ 38,00
11	9001063	2	Clamp plate	€ 4,20
12	00000.9207	2	Insert cap 20x10	€ 0,20
A			See 016: Rear wheel XA	-

- 014: Brake system XC



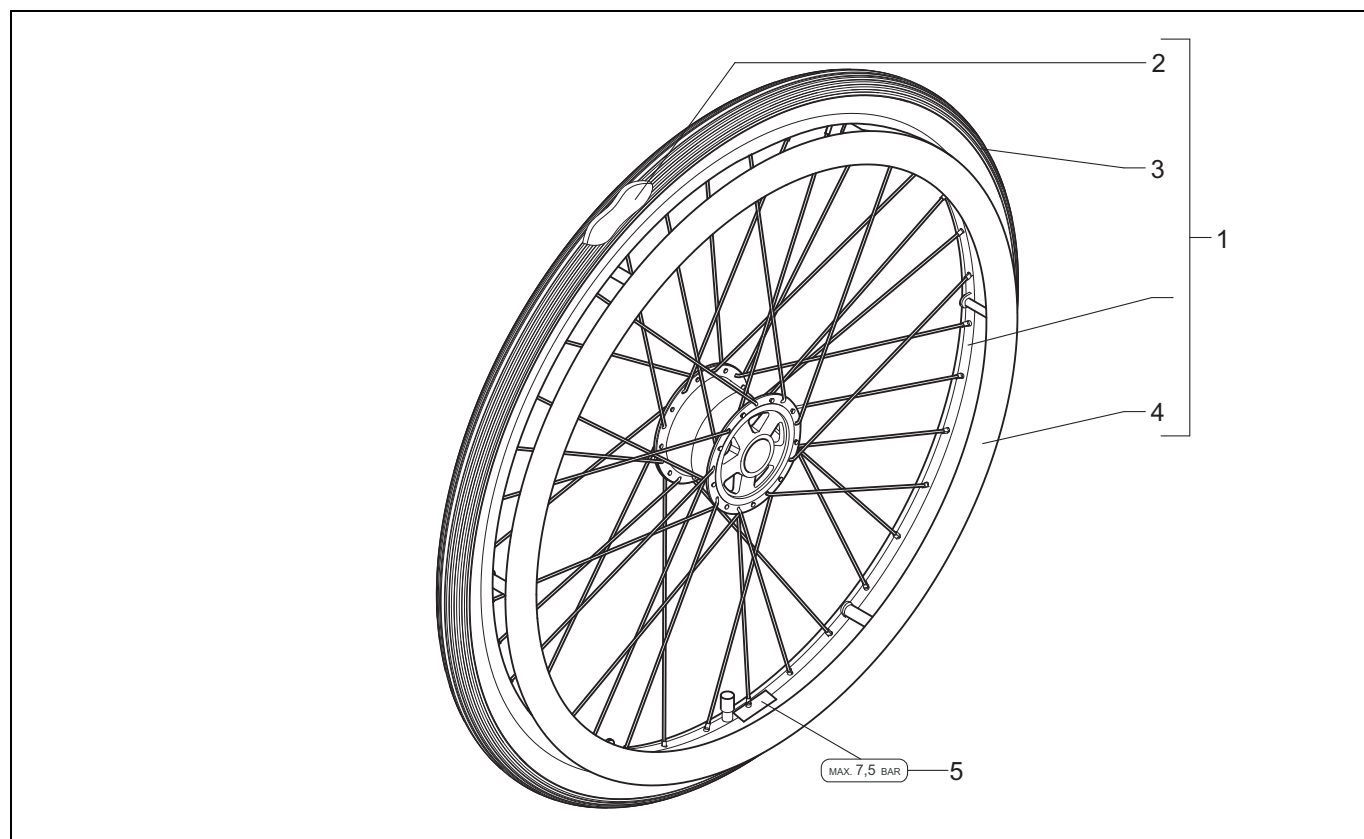
Pos	Article number	Units	Description	Price p/p 2008
1	9000915	1	Wheel, 12", air, with brake, assy, left, Ibis XC	€ 238,00
	1002790	1	Wheel, 12", air, with brake, assy, right, Ibis XC	€ 325,00
	9001076	1	Wheel, 12", PU, with brake, assy, left, Ibis XC	€ 238,00
	1002791	1	Wheel, 12", PU, with brake, assy, right, Ibis XC	€ 325,00
2	00000.1704	2	Locknut M12 D985/8/vz	€ 0,60
3	9001199	1	Brake complete left	€ 101,00
	9001200	1	Brake complete right	€ 101,00
6	00001.1409	1	Label footbrake	€ 0,50
7	00000.1704	2	Lock nut M12	€ 0,60
8	00000.2005	2	Washer flat M12	€ 0,30
9	9000980	1	Footlever	€ 126,00
	9001442	1	Footlever extra wide	€ 215,00
10	1002814	2	Brake lever	€ 13,00
A			See 017: Rear wheel XC	-

- 015: Swivel Castor



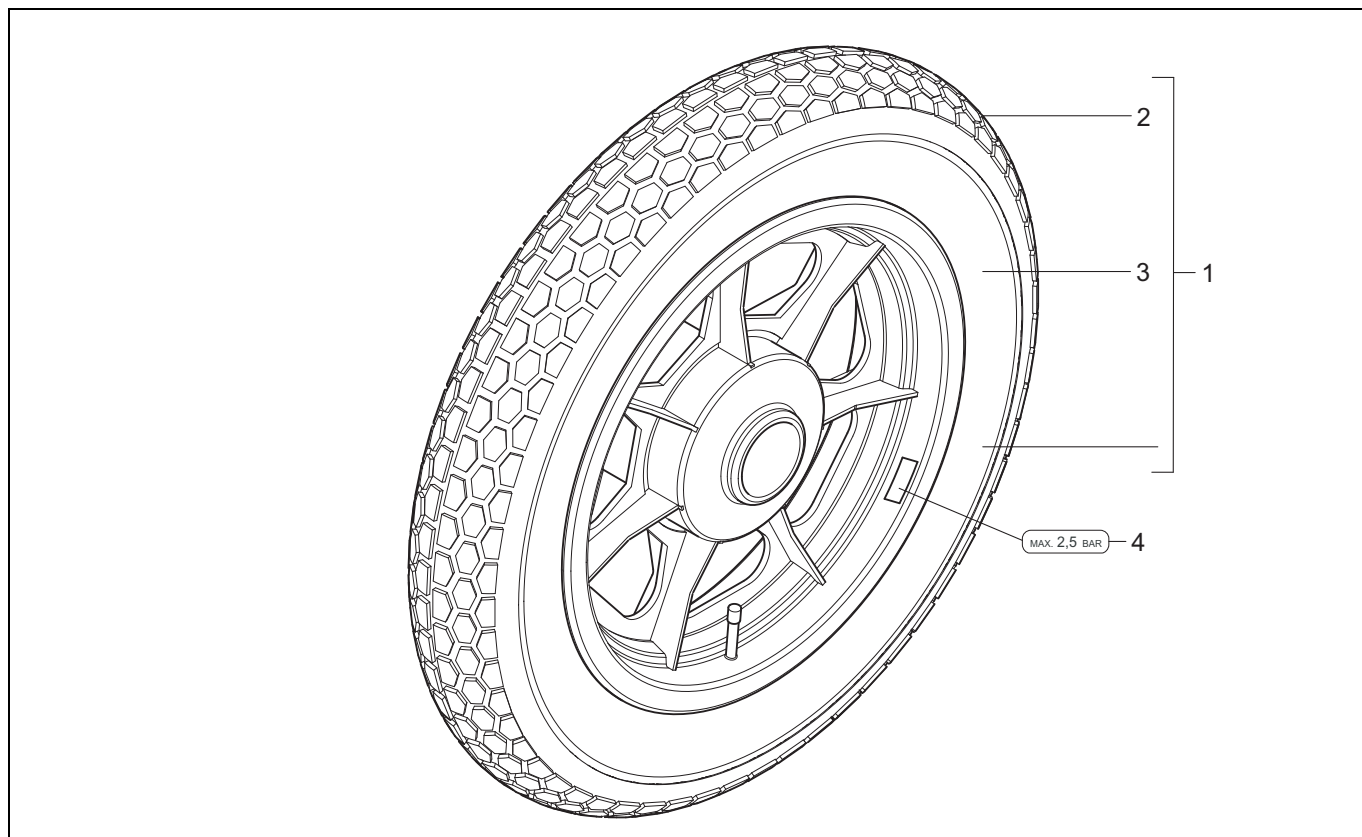
Pos	Article number	Units	Description	Price p/p 2008
1	1008053	2	Front fork	€ 51,00
2	00000.4310	2	Hex bolt M12X50	€ 0,50
3	00000.6007	2	Shim 12X18X1	€ 0,40
4	00000.1802	2	Cap lock nut M8	€ 0,60
5	00000.1704	2	Lock nut M12	€ 0,60
6	00000.4001	2	Cyl cap screw M8X75	€ 1,00
7	1001446	2	Wheel,castor,7",air,assy	€ 52,00
	1001447	2	Wheel,castor,7",PU,assy	€ 44,00

- 016 Rear wheel XA



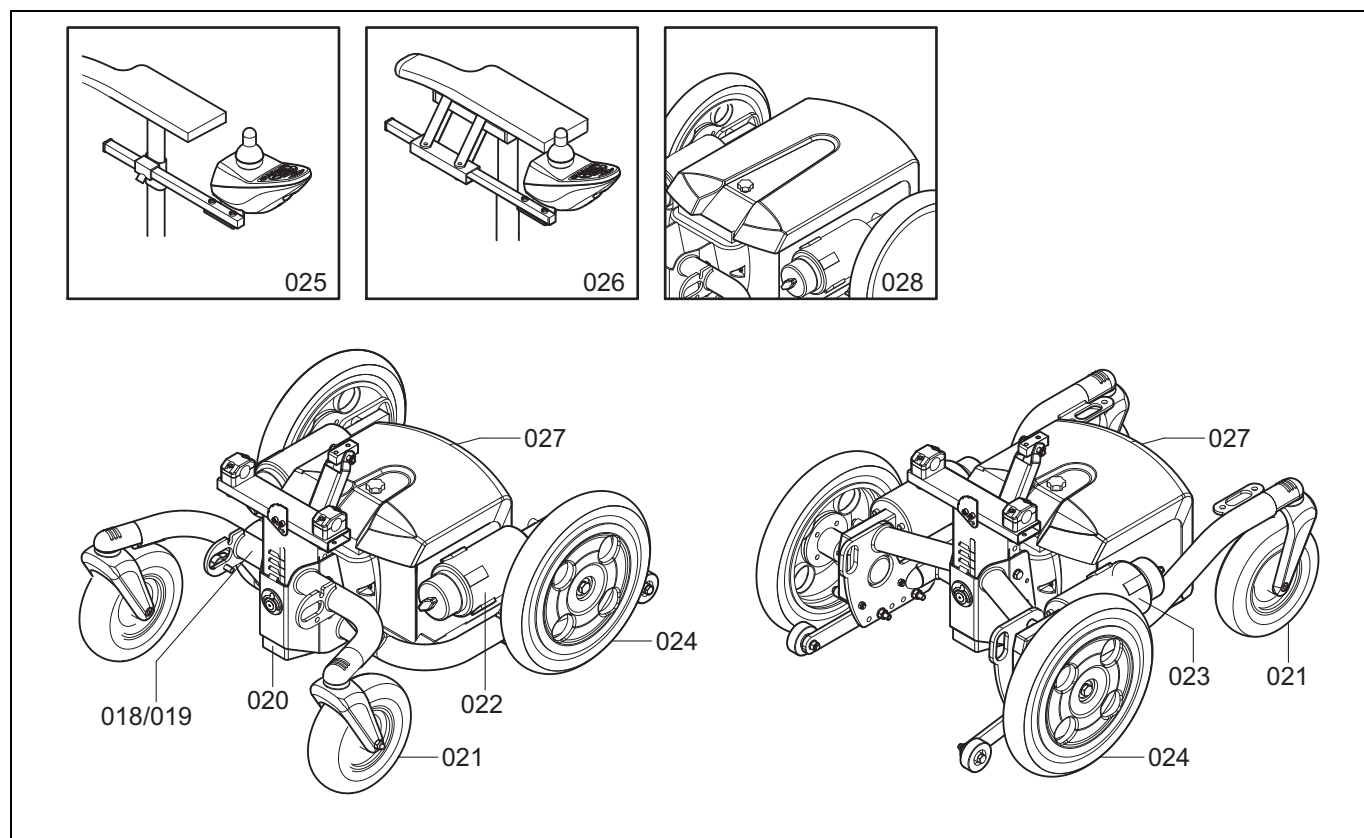
Pos	Article number	Units	Description	Price p/p 2008
1	03877.0100	2	Wheel 20" air	€ 170,00
	1002746	2	Wheel 20" PU	€ 195,00
	03875.0100	2	Wheel 22" air	€ 218,00
	1002748	2	Wheel 22" PU	€ 249,00
	03860.1100	2	Wheel 24" air	€ 143,00
	1002750	2	Wheel 24" PU	€ 249,00
2	1003690	2	Tube 20"	€ 23,00
	1003691	2	Tube 22"	€ 23,00
	1003692	2	Tube 24"	€ 30,00
3	1003686	2	Tyre 20"	€ 37,00
	1003687	2	Tyre 22"	€ 37,00
	1003688	2	Tyre 24"	€ 38,00
4	1003695	2	Hoop 20" plastic black	€ 81,00
	1003696	2	Hoop 22" plastic black	€ 81,00
	1003697	2	Hoop 24" plastic black	€ 81,00
5	008.00000.221	2	Label tyre pressure 7.5 Bar	€ 0,50

- 017: Rear wheel XC



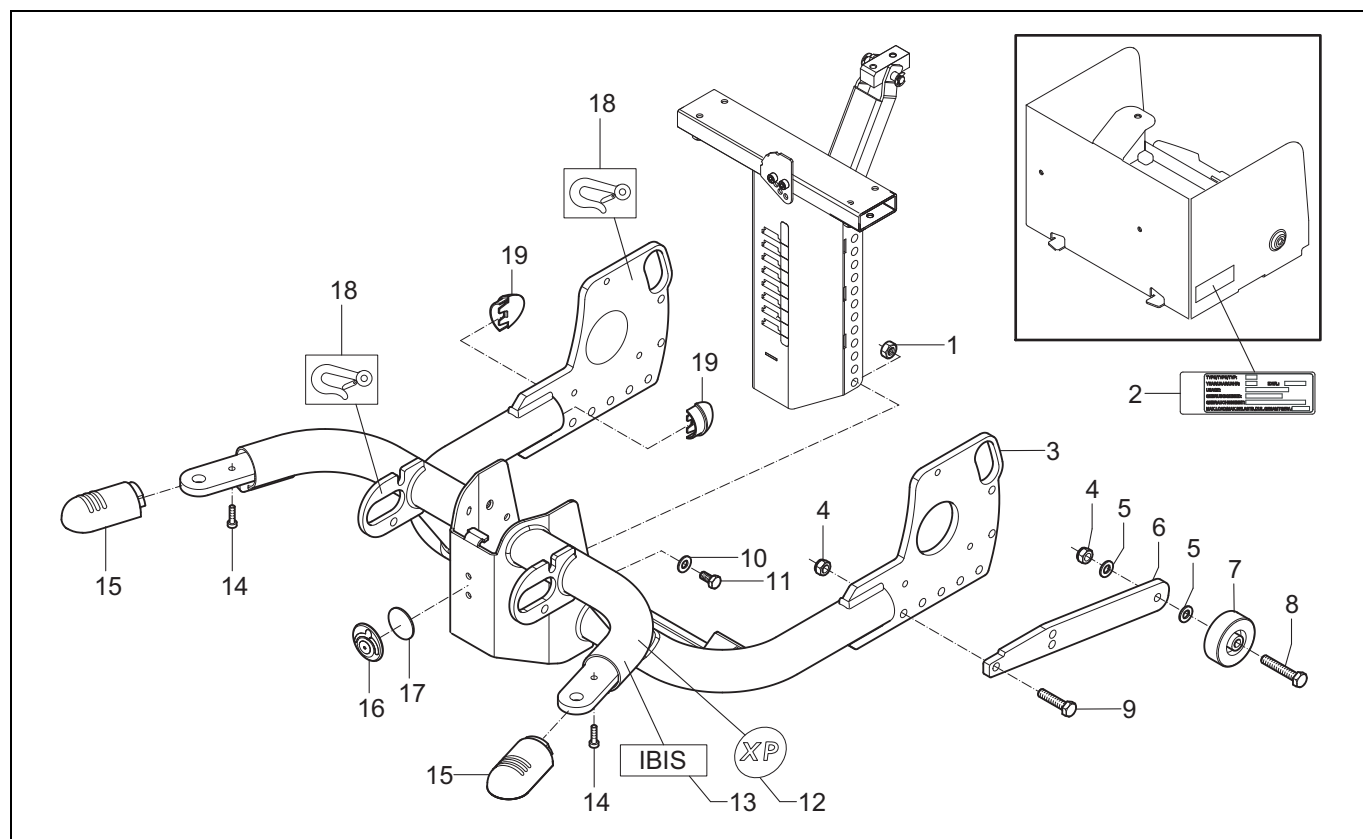
Pos	Article number	Units	Description	Price p/p 2008
1	1001138	2	Wheel 12" air	€ 115,00
	1001166	2	Wheel 12" PU	€ 225,00
2	1003689	2	Tyre 12"	€ 35,00
3	01010.3300	2	Tube 12"	€ 12,00
4	00001.1461	2	Label tyre pressure 2.5 Bar (sticker sheet)	€ 0,50

3.3 Ibis XP (front-wheel and rear-wheel drive)



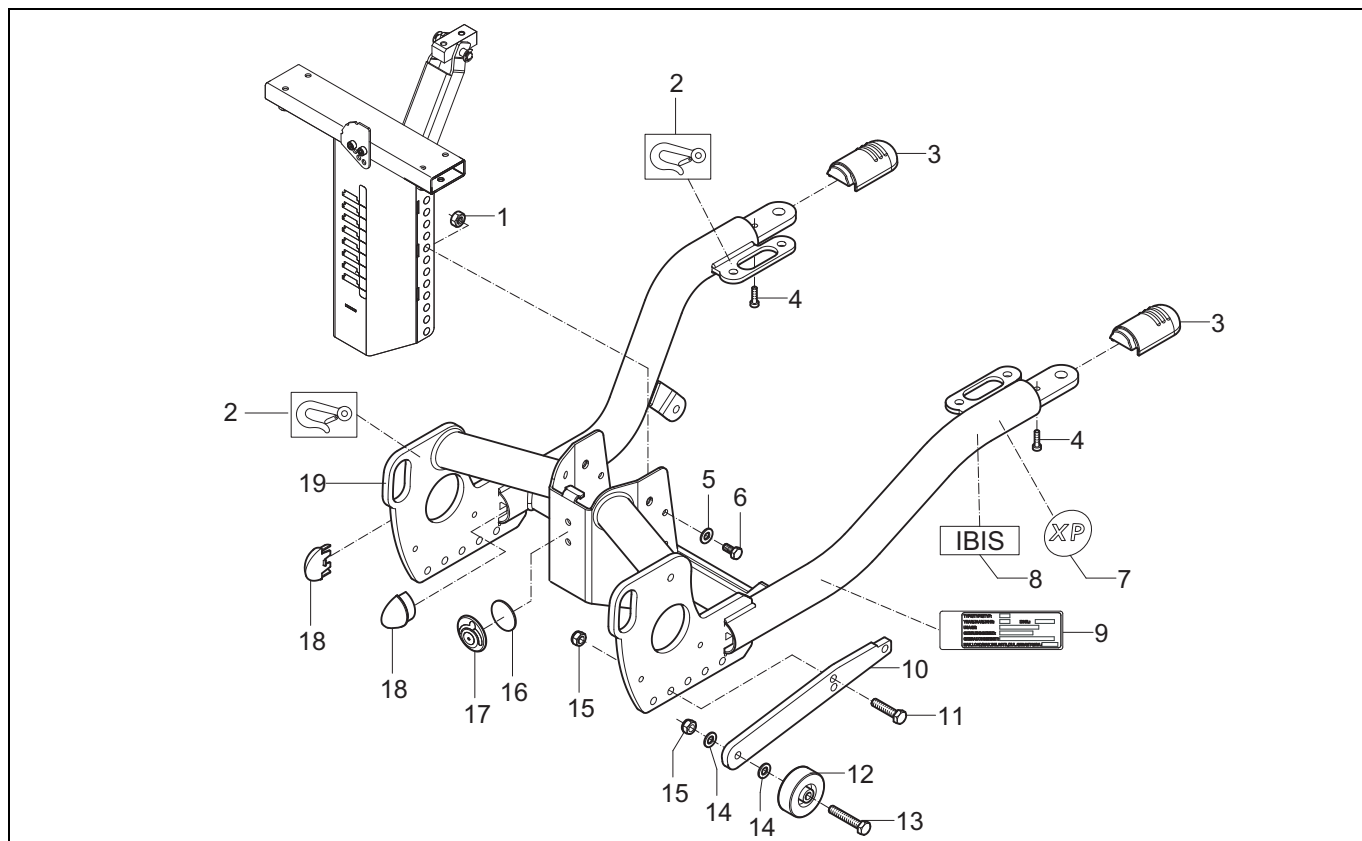
Drawing	Description	Page
018	Carrier (RWD without wheels)	49
019	Carrier (FWD without wheels)	50
020	Seat post	51
021	Wheel, castor	52
022	Motor (RWD)	53
023	Motor (FWD)	54
024	Driven wheel	55
025	Remote	56
026	Swing-away bracket for remote	57
027	Batteries (standard)	58 t/m 59
028	Batteries (option)	60 t/m 61

- 018: Carrier (rear-wheel drive)



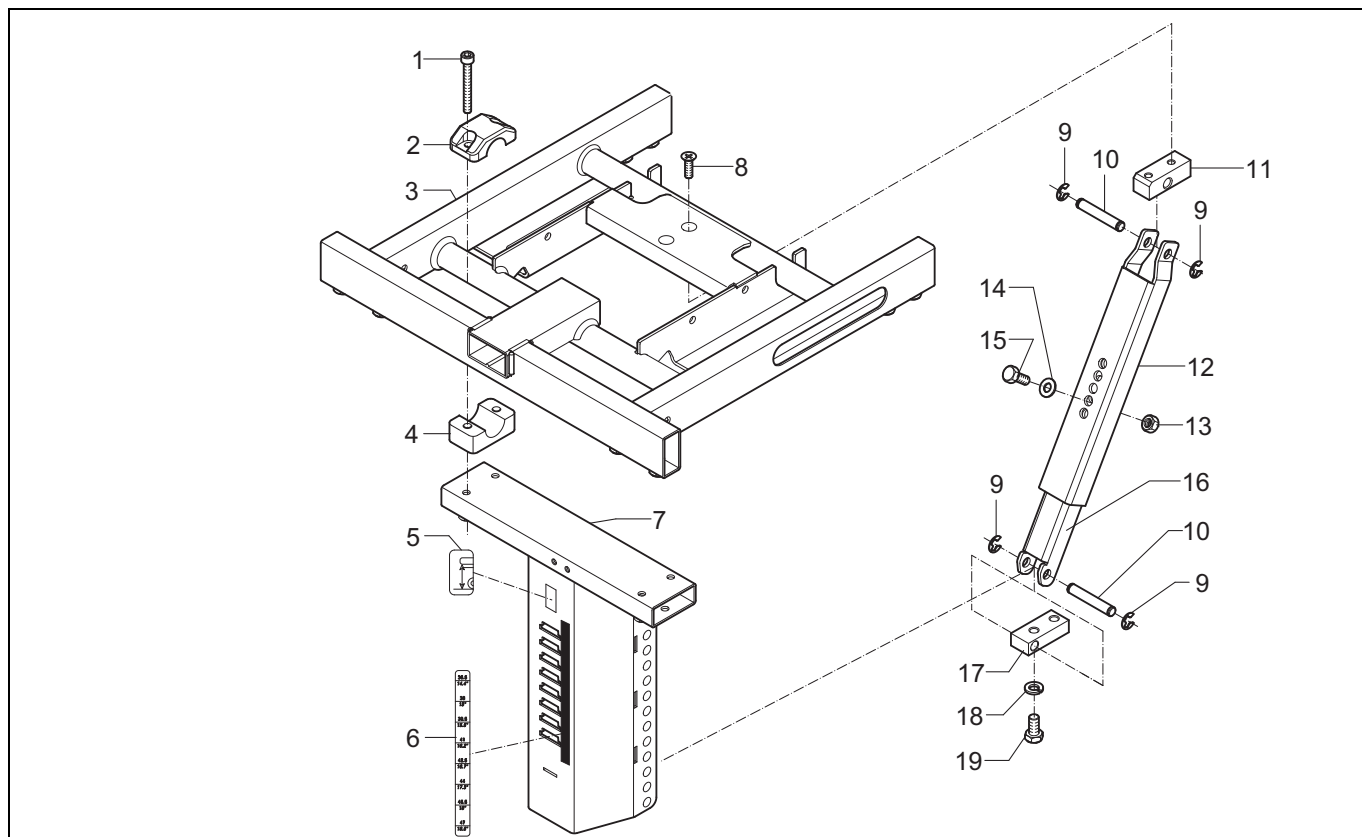
Pos	Article number	Units	Description	Price p/p 2008
1	00000.1702	4	Lock nut M8	€ 0,30
2	-	1	Identification plate	-
3	1008060	1	Carrier frame RWD	€ 628,00
4	00000.1702	6	Lock nut M8	€ 0,30
5	00000.2003	4	Washer flat M8	€ 0,20
6	9001375	2	Anti tip bracket	€ 20,00
7	00000.5403	2	Wheel anti tip	€ 3,50
8	00000.4105	2	Hex bolt M8X40	€ 0,30
9	00000.4135	4	Hex bolt M8x25	€ 0,20
10	00000.2003	4	Washer flat M8	€ 0,20
11	00000.4312	4	Hex bolt M8X16	€ 0,20
12	1002633	2	Label XP (sticker sheet)	€ 0,60
13	1002629	2	Logo IBIS	€ 4,80
14	1002789	2	Screw 4X16	€ 0,30
15	9001140	2	Tube cap	€ 4,20
16	9002232	1	Logo button	€ 5,70
17	9000872	1	Adhesive logo button	€ 1,10
18	1003247	4	Label transport fixation (sticker sheet)	€ 5,50
19	9000943	4	Tube cap	€ 3,20
-	1008062	1	Anti-tip set Ibis XP	€ 51,00

- 019: Carrier (front-wheel drive)



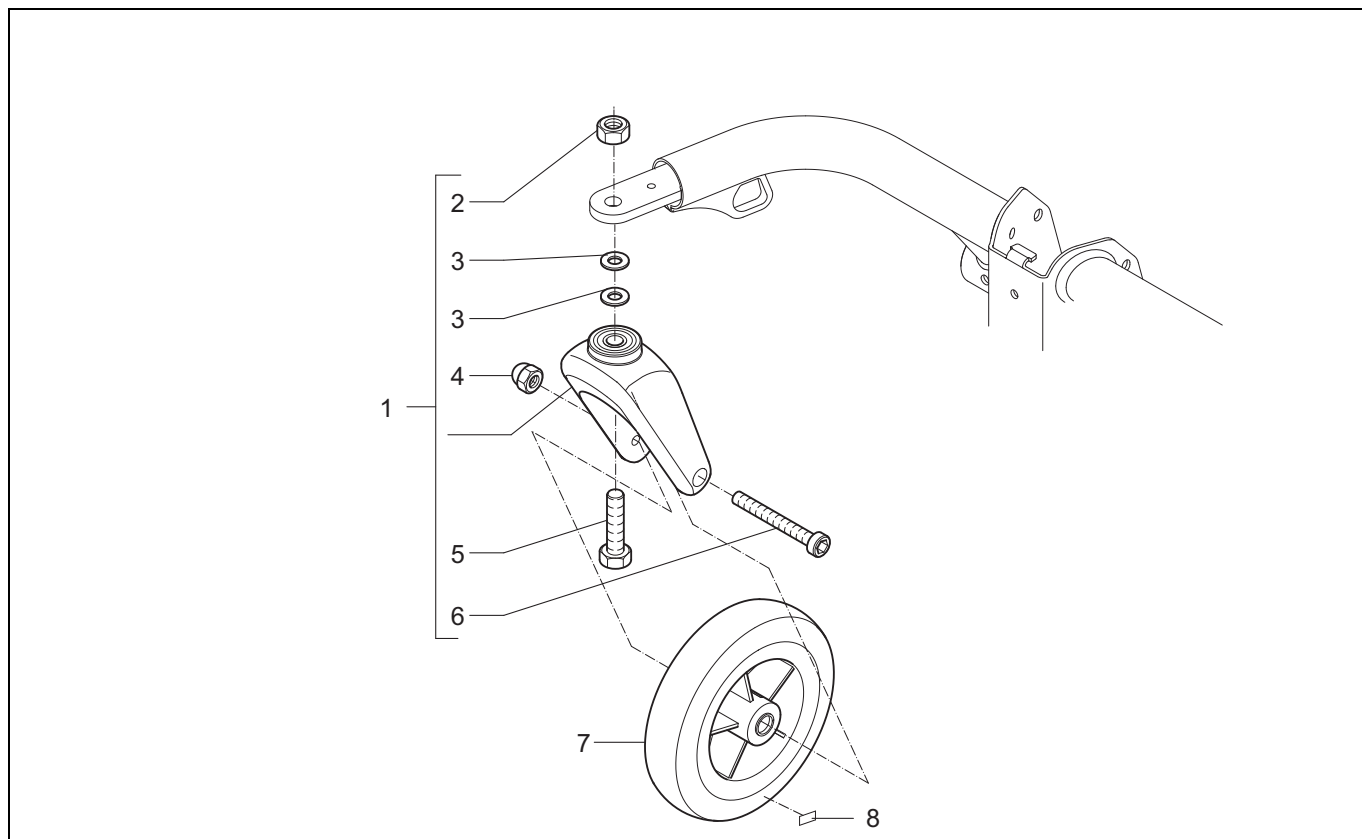
Pos	Article number	Units	Description	Price p/p 2008
1	00000.1702	4	Lock nut M8	€ 0,30
2	1003247	4	Label transport fixation (sticker sheet)	€ 5,50
3	9001140	2	Tube cap	€ 4,20
4	1002789	2	Screw 4x16	€ 0,30
5	00000.2003	4	Washer flat M8	€ 0,20
6	00000.4312	4	Hex bolt M8X16	€ 0,20
7	1002633	2	Label XP (sticker sheet)	€ 0,60
8	1002629	2	Logo IBIS	€ 4,80
9	-	1	Identification plate	-
10	9001375	2	Anti tip bracket	€ 20,00
11	00000.4135	4	Hex bolt M8x25	€ 0,20
12	00000.5403	2	Wheel anti tip	€ 3,50
13	00000.4105	2	Hex bolt M8X40	€ 0,30
14	00000.2003	4	Washer flat M8	€ 0,20
15	00000.1702	6	Lock nut M8	€ 0,30
16	9000872	1	Adhesive logo button	€ 1,10
17	9002232	1	Logo button	€ 5,70
18	9000943	4	Tube cap	€ 3,20
19	1008061	1	Carrier frame FWD	€ 628,00
-	1008062	1	Anti-tip set Ibis XP	€ 51,00

- 020: Seat post



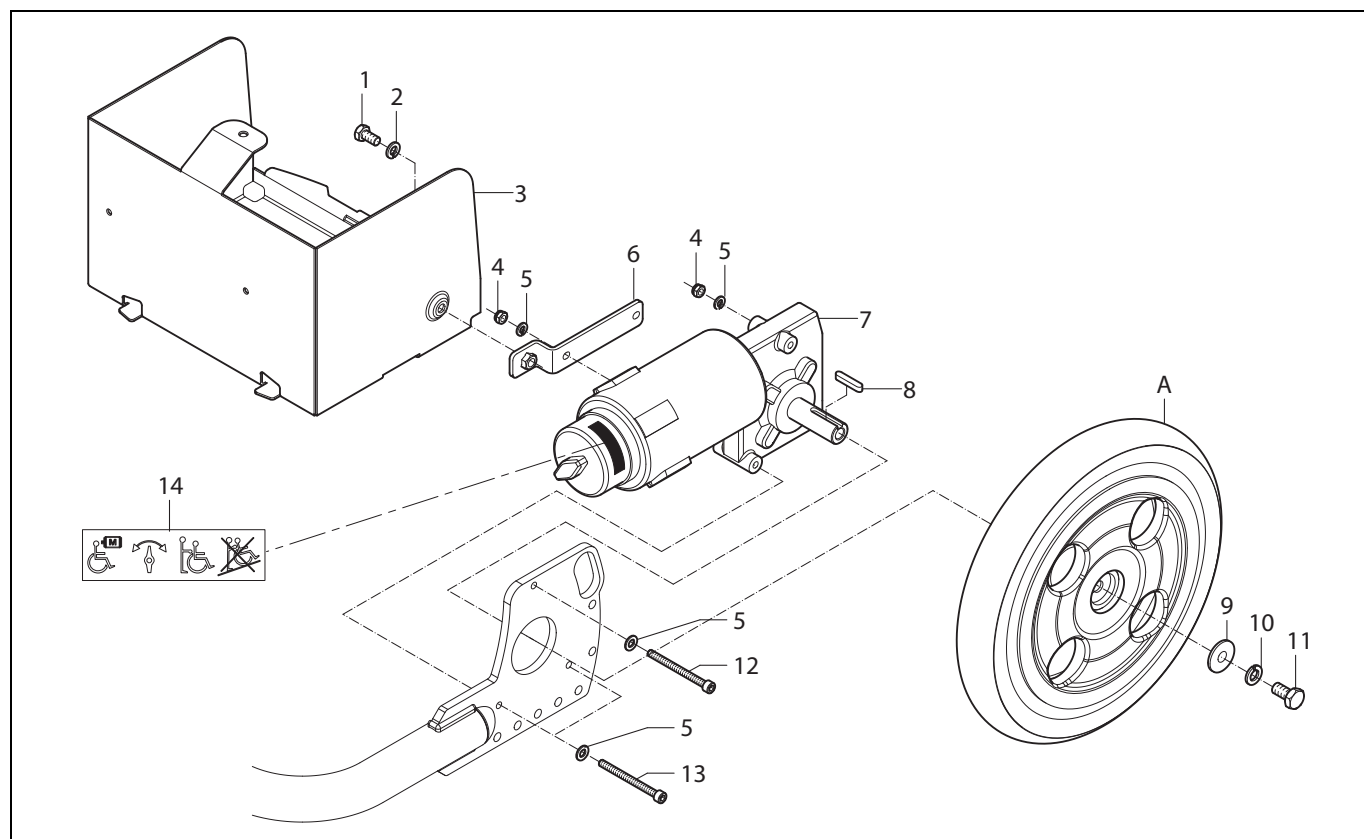
Pos	Article number	Units	Description	Price p/p 2008
1	00000.4014	4	Cyl cap screw M6X50	€ 0,30
2	02010.6182	2	Upper hinge block 22mm	€ 1,60
3	9000951	1	Sedeo seating frame, Ibis X-series	€ 179,00
4	02010.7682	2	Lower hinge block 22mm	€ 1,60
5	1003247	1	Label seat height symbol (sticker sheet)	€ 5,50
6	1003247	1	Label seat height (46,5-54 cm) (sticker sheet)	€ 5,50
7	9001207	1	Seat post long	€ 135,00
8	00001.0914	2	Screw M8X16	€ 0,40
9	00000.1404	4	Shaft lock washer 7MM	€ 0,20
10	9001154	2	Axis gas spring	€ 6,30
11	9001398	1	Hinge block	€ 21,00
12	9001361	1	Upper support mech. Tilt	€ 35,00
13	00000.1702	1	Cap lock nut M8	€ 0,30
14	00000.2003	1	Washer flat M8	€ 0,20
15	00000.4312	1	Hex bolt M8X16	€ 0,20
16	9001362	1	Lower support mech. Tilt	€ 33,00
17	9001128	1	Gas spring hinge block	€ 17,00
18	00000.2203	2	Spring washer M8	€ 0,20
19	00000.4312	2	Hex bolt M8X16	€ 0,20

- 021: Swivel Castor



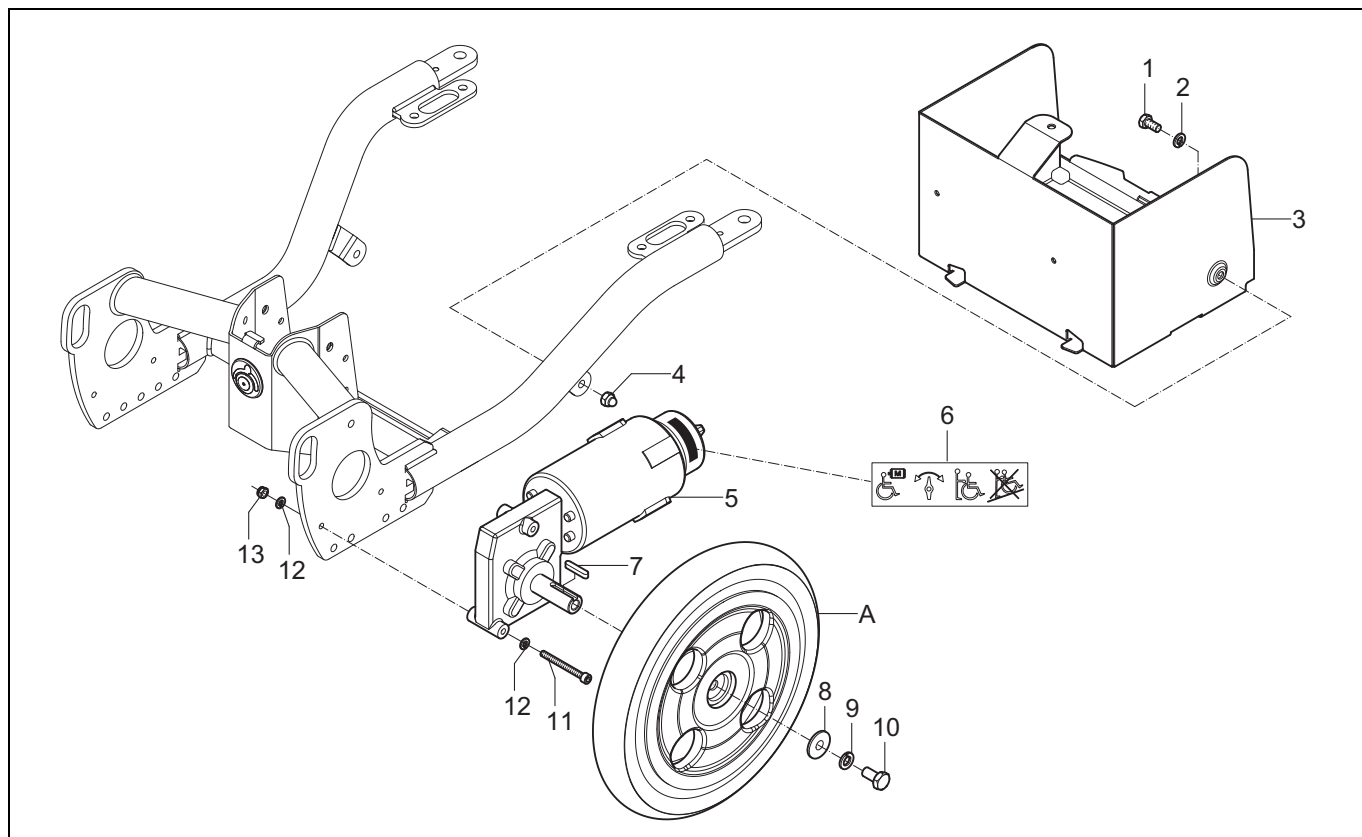
Pos	Article number	Units	Description	Price p/p 2008
1	1008053	2	Front fork	€ 51,00
2	00000.1704	2	Lock nut M12	€ 0,60
3	00000.6007	2	Shim12X18X1	€ 0,40
4	00000.1802	2	Cap lock nut M8	€ 0,60
5	00000.4310	2	Hex bolt M12X50	€ 0,50
6	00000.4001	2	Cyl. cap screw M8X75	€ 1,00
7	9001454	2	Wheel,castor,8",air,assy	€ 52,00
	9001505	2	Wheel,castor,8",PU,assy	€ 52,00
8	00001.1461	2	Label tyre pressure 2.5 Bar	€ 0,50

- 022 Motor (rear-wheel drive)



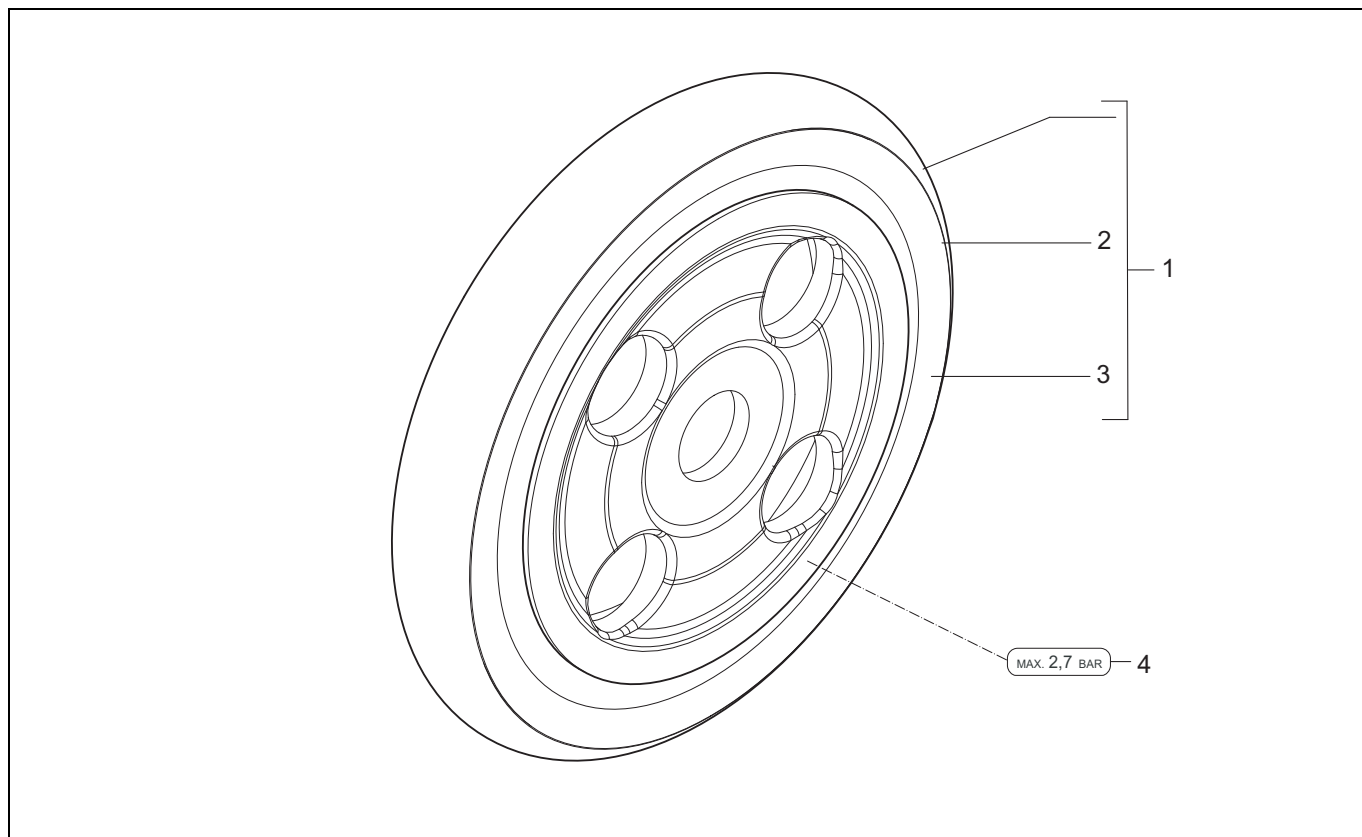
Pos	Article number	Units	Description	Price p/p 2008
1	00000.4312	2	Hex bolt M8X16	€ 0,20
2	00000.2003	2	Washer flat M8	€ 0,20
3	9001303	1	Battery box	€ 195,00
4	00000.1701	6	Lock nut M6	€ 0,20
5	00000.2002	12	Washer flat M6	€ 0,20
6	9001302	2	Bracket battery box	€ 23,00
7	9001046	1	Motor B (right FWD, left RWD)	€ 607,00
	9001047	1	Motor A (left FWD, right RWD)	€ 607,00
8	00000.7604	2	Key flat 6X6X30	€ 1,00
9	00000.2104	2	Washer flat 3XD M10	€ 0,30
10	00000.2204	2	Spring washer M10	€ 0,20
11	00000.4315	2	Hex bolt M10X20	€ 0,30
12	00000.4005	2	Cyl cap screw M6X60	€ 0,50
13	00000.4030	4	Cyl cap screw M6X70	€ 0,50
14	1003247	2	Label freewheel (sticker sheet)	€ 5,50
A			See 024: Driven wheel	-

- 023 Motor (front-wheel drive)



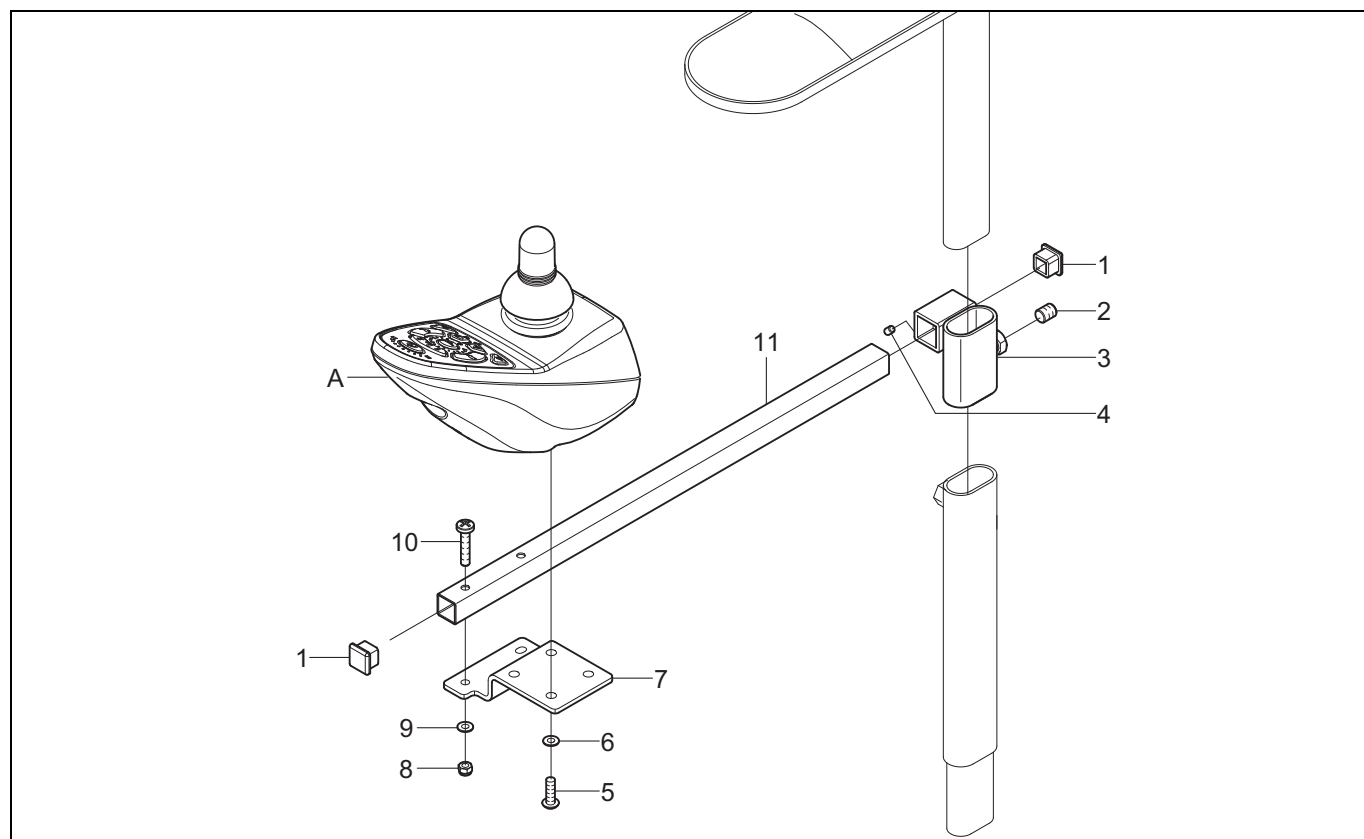
Pos	Article number	Units	Description	Price p/p 2008
1	00000.4312	2	Hex bolt M8X16	€ 0,20
2	00000.2003	2	Washer flat M8	€ 0,20
3	9001303	1	Battery box	€ 195,00
4	00000.1802	2	Cap lock nut M8	€ 0,60
5	9001047	1	Motor A (left FWD, right RWD)	€ 607,00
	9001046	1	Motor B (right FWD, left RWD)	€ 607,00
6	1003247	2	Label freewheel (sticker sheet)	€ 5,50
7	00000.7604	2	Key flat 6X6X30	€ 1,00
8	00000.2104	2	Washer flat 3XD M10	€ 0,30
9	00000.2204	2	Spring washer M10	€ 0,20
10	00000.4315	2	Hex bolt M10X20	€ 0,30
11	00000.4005	6	Cyl. cap screw M6X60	€ 0,50
12	00000.2002	12	Washer flat M6	€ 0,20
13	00000.1701	6	Lock nut M6	€ 0,20
A			See 024: Driven wheel	-

- 024 Driven wheel



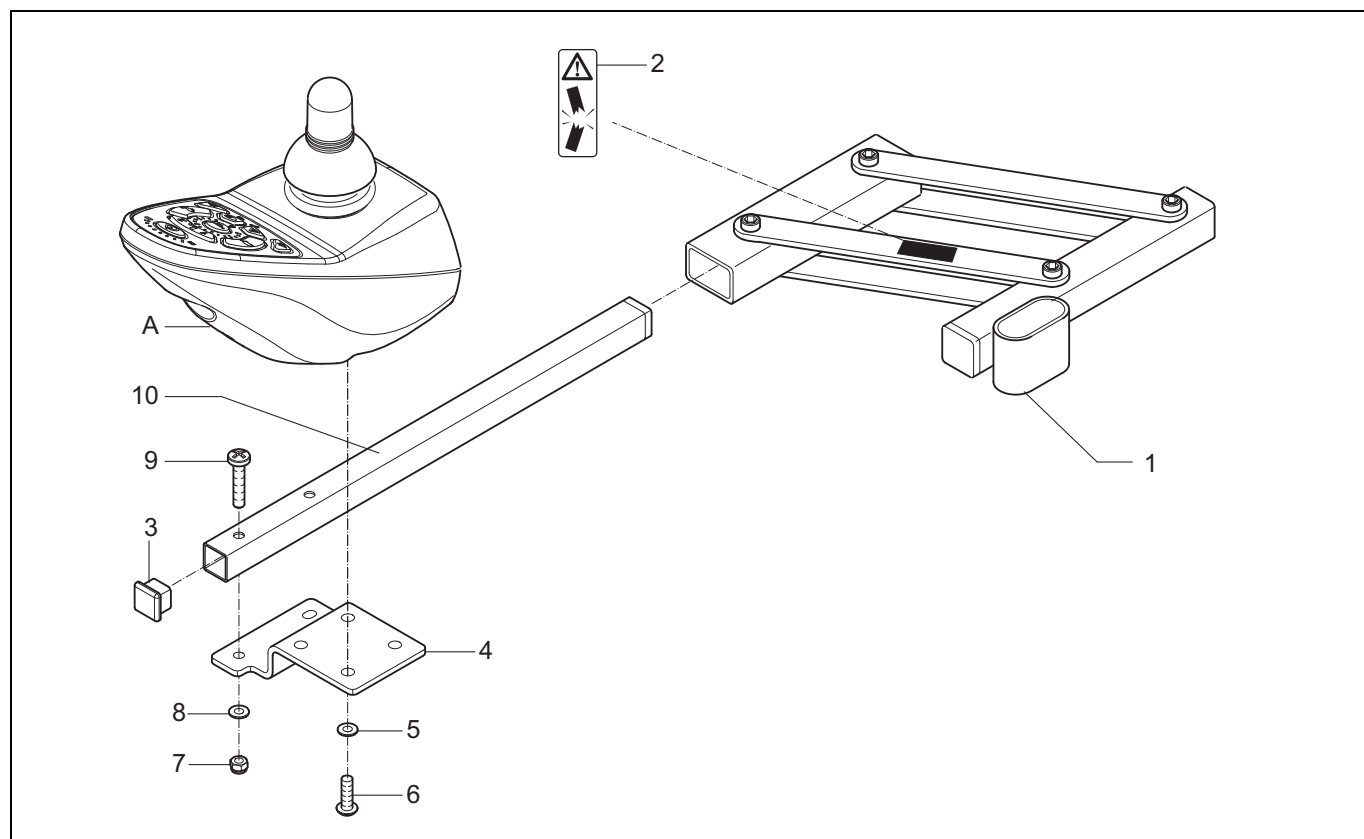
Pos	Article number	Units	Description	Price p/p 2008
1	1001174	2	Wheel 12.5" air	€ 133,00
	1002946	2	Wheel 12.5" PU	€ 217,00
2	15010.4200	2	Tyre 12.5"	€ 25,00
3	15010.4100	2	Tube 12.5"	€ 13,00
4	00001.1462	2	Label tyre pressure 2.7 Bar	€ 0,50

- 025 Remote



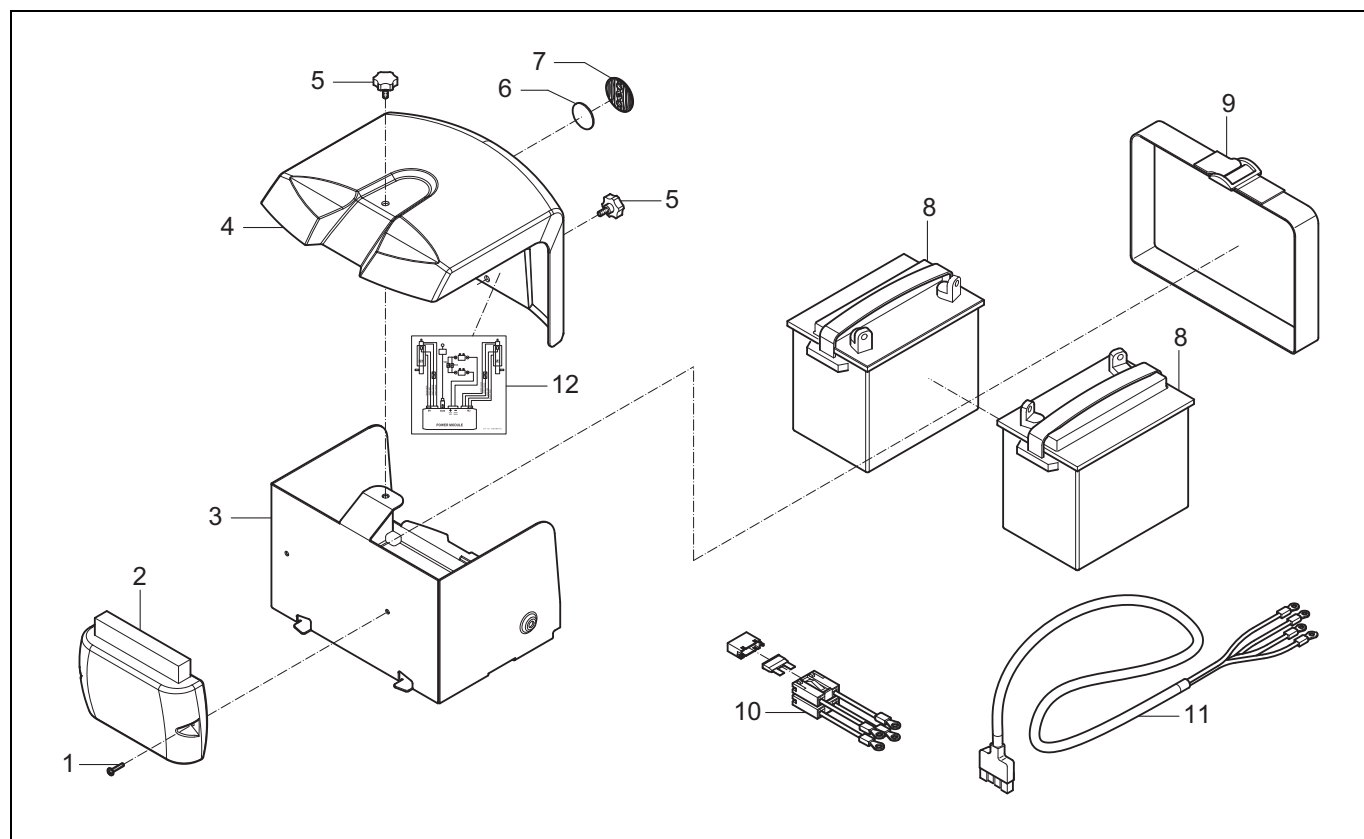
Pos	Article number	Units	Description	Price p/p 2008
1	00000.9301	2	Insert cap 15mm square	€ 0,30
2	00000.3541	1	Adjusting screw M8X10	€ 0,70
3	06040.0923	1	Fixed bracket for remote	€ 62,00
4	00000.3541	1	Adjusting screw M8X10	€ 0,70
5	00000.3206	4	Screw M5X16	€ 0,30
6	00000.2201	4	Spring washer M5	€ 0,20
7	9000265	1	Shark mounting plate	€ 3,40
8	00000.1705	2	Lock nut M4	€ 0,20
9	00000.2006	2	Washer flat M4	€ 0,20
10	00000.3212	2	Screw M4X25	€ 0,20
11	15040.0823	1	Tube	€ 22,00
A			See 042: Wiring and modules Shark	-

- 026 Remote (swing-away)



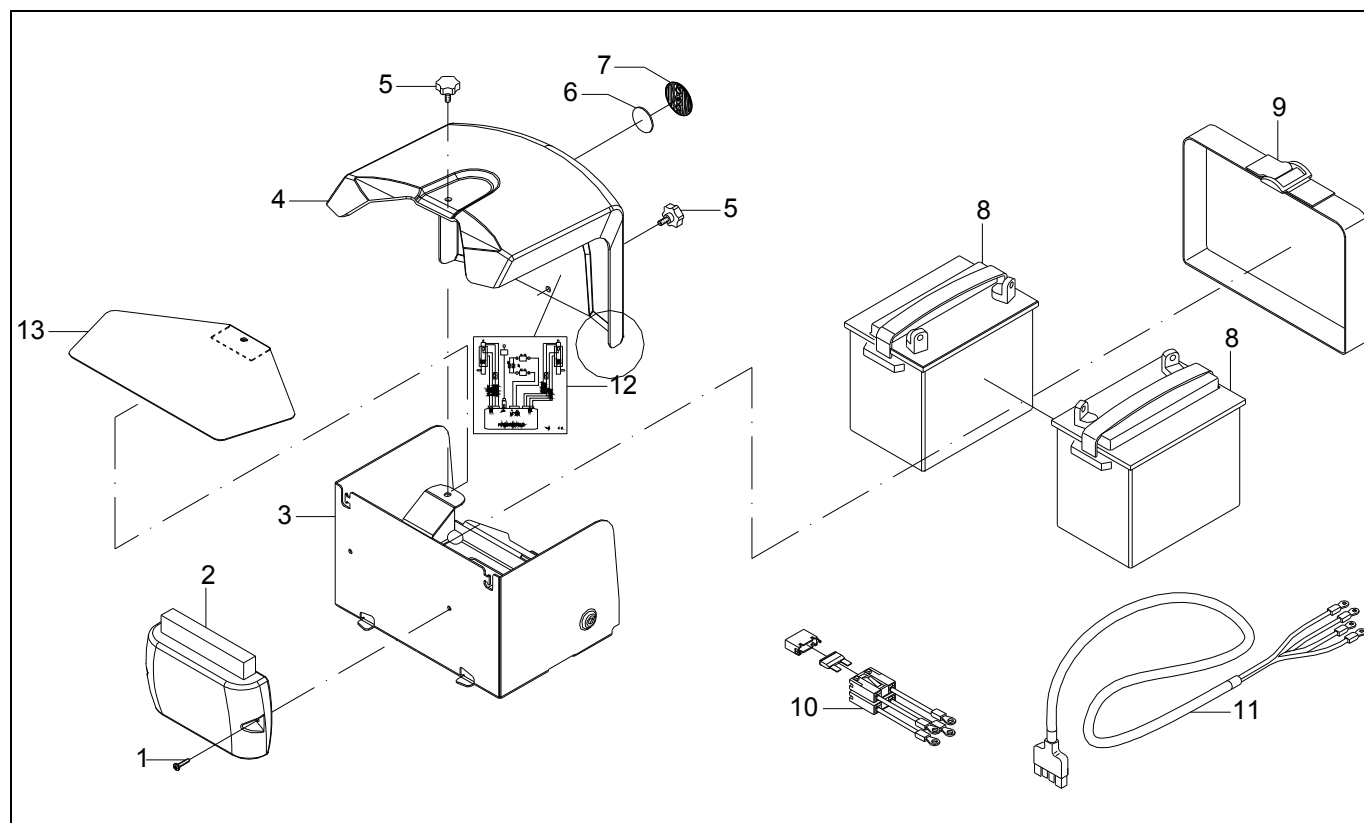
Pos	Article number	Units	Description	Price p/p 2008
1	05041.9123	1	Swing-away bracket for remote right	€ 167,00
	165.00111.000	1	Swing-away bracket for remote left	€ 167,00
2	008.00000.191	1	Sticker, trap danger	€ 1,20
3	00000.9301	2	Insert cap 15mm square	€ 0,30
4	9000265	1	Shark mounting plate, Yes/X-series	€ 3,40
5	00000.2201	4	Spring washer M5	€ 0,20
6	00000.3206	4	Screw M5X16	€ 0,30
7	00000.1705	2	Lock nut M4	€ 0,20
8	00000.2006	2	Washer flat M4	€ 0,20
9	00000.3212	2	Screw M4X25	€ 0,20
10	15040.0823	1	Tube	€ 22,00
A			See 042: Wiring and modules Shark	-

- 027 Batteries (standard) (Situation upon serial number: KXPR 00505)



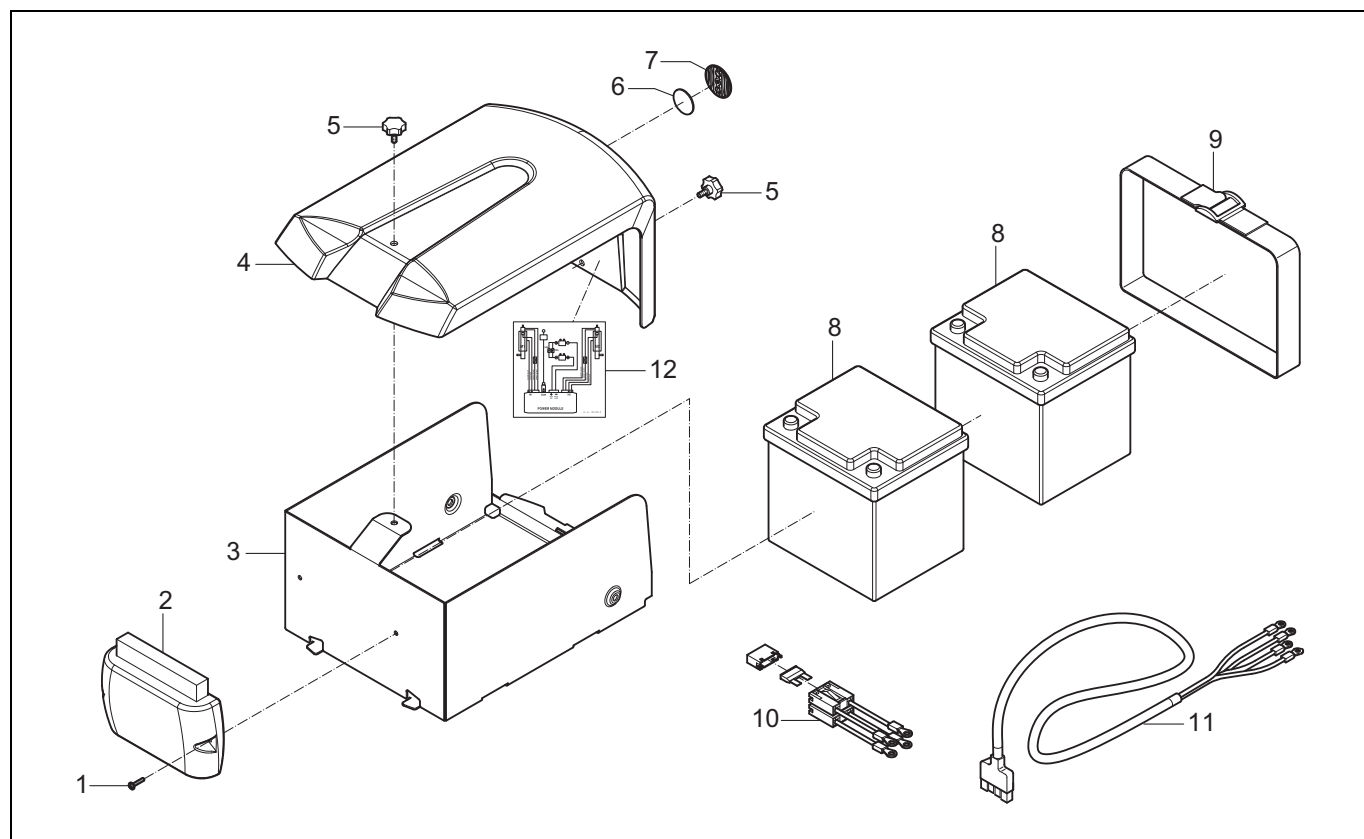
Pos	Article number	Units	Description	Price p/p 2008
1	00000.4060	2	Cyl cap screw M4X20	€ 0,20
2			See 042: Wiring and modules Shark	-
3	9001303	1	Battery box	€ 195,00
4			See 027a: Batteries (standard)	-
5	001.23000.001	2	Star knob M6X13	€ 2,70
6	9000872	1	Adhesive logo button	€ 1,10
7	9002232	1	Logo button	€ 5,70
8	4004	2	Battery 28 Ah (C20) Dryfit A500	€ 159,00
9	9001308	1	Battery strap	€ 15,00
10	055.00000.013	1	Wire battery loop	€ 38,00
11	9001373	1	Power cable Shark	€ 29,00
12	1001651	1	Label wiring diagram	€ 3,70

- 027a Batteries (standard) (Situation from serial number: KXPR 00506)



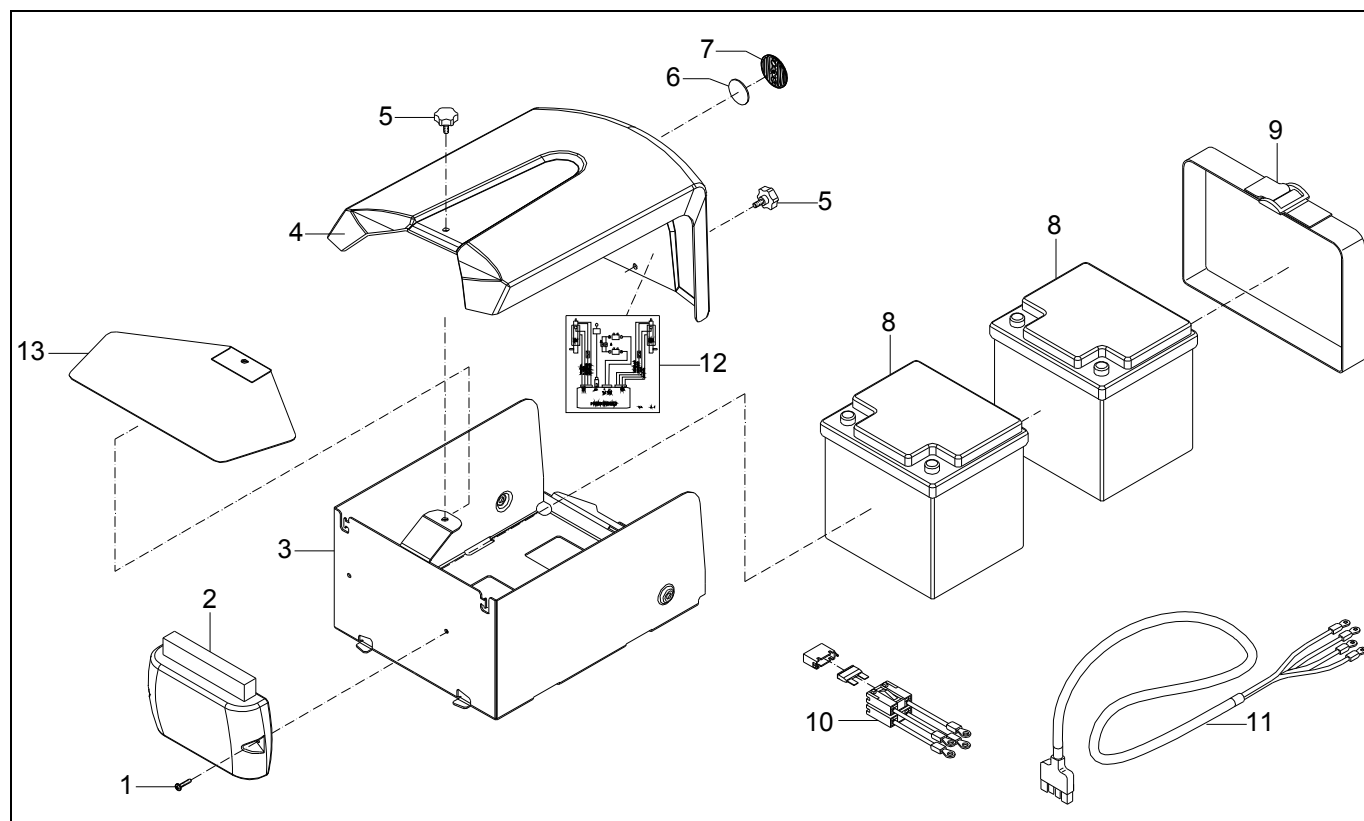
Pos	Article number	Units	Description	Price p/p 2008
1	00000.4060	2	Cyl cap screw M4X20	€ 0,20
2			See 042: Wiring and modules Shark	-
3	9001303	1	Battery box	€ 195,00
4	1008063	1	Battery cover	€ 134,00
5	001.23000.001	2	Star knob M6X13	€ 2,70
6	9000872	1	Adhesive logo button	€ 1,10
7	9002232	1	Logo button	€ 5,70
8	4004	2	Battery 28 Ah (C20) Dryfit A500	€ 159,00
9	9001308	1	Battery strap	€ 15,00
10	055.00000.013	1	Wire battery loop	€ 38,00
11	9001373	1	Power cable Shark	€ 29,00
12	1001651	1	Label wiring diagram	€ 3,70
13	9002098	1	Cover for power module	€ 13,00

- 028 Batteries (optional) (Situation upon serial number: KXPR 00505)



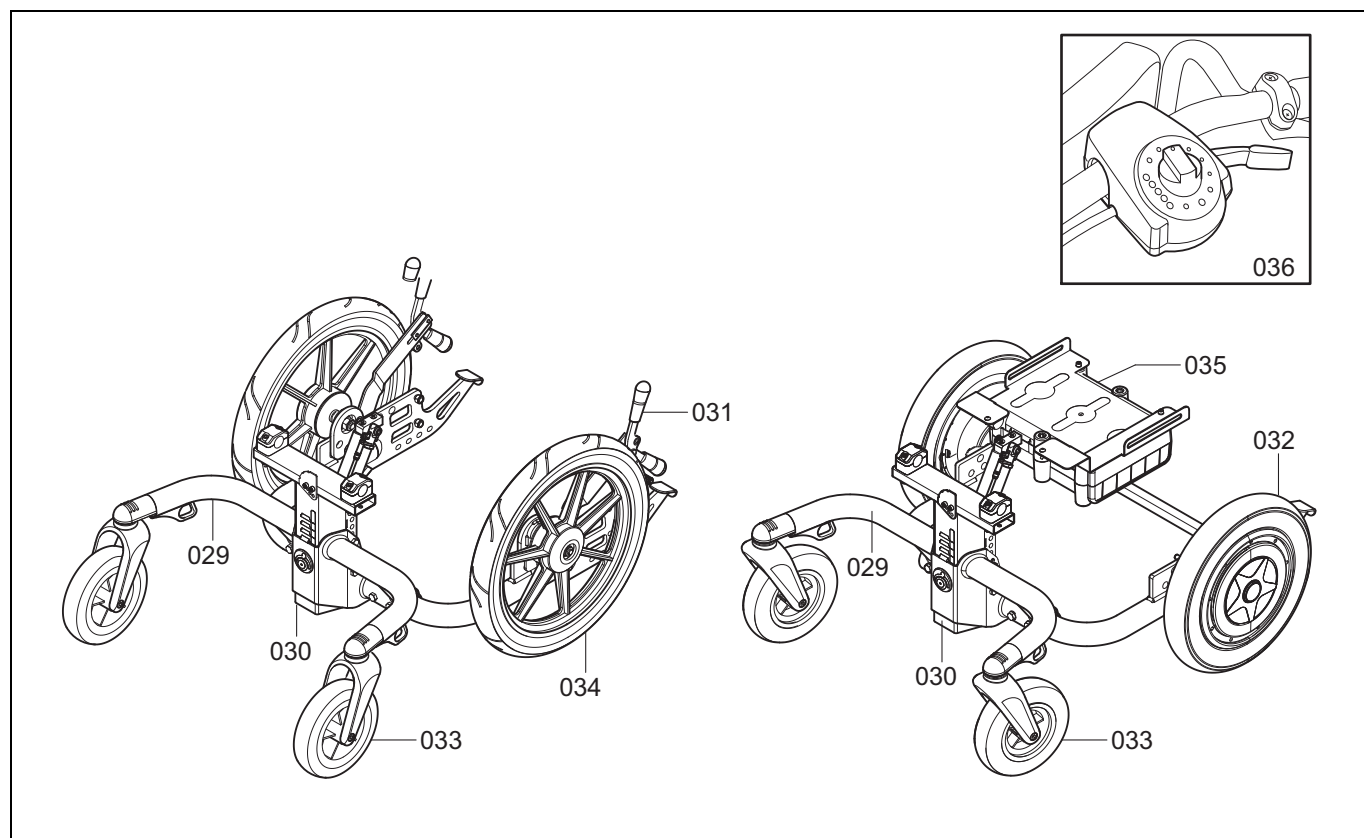
Pos	Article number	Units	Description	Price p/p 2008
1	00000.4060	2	Cyl cap screw M4X20	€ 0,20
2			See 042: Wiring and modules Shark	-
3	9001306	1	Battery box extended	€ 217,00
4			See 028a: Batteries (optional)	-
5	001.23000.001	2	Star knob M6X13	€ 2,70
6	9000872	1	Adhesive logo button	€ 1,10
7	9002232	1	Logo button	€ 5,70
8	00355.4014	2	Battery 38 Ah (C20) Dryfit A500	€ 211,00
9	9001308	2	Battery strap	€ 15,00
10	055.00000.013	1	Wire battery loop	€ 38,00
11	9001373	1	Power cable Shark	€ 29,00
12	1001651	1	Label wiring diagram	€ 3,70

- 028a Batteries (optional) (Situation from serial number: KXPR 00506)



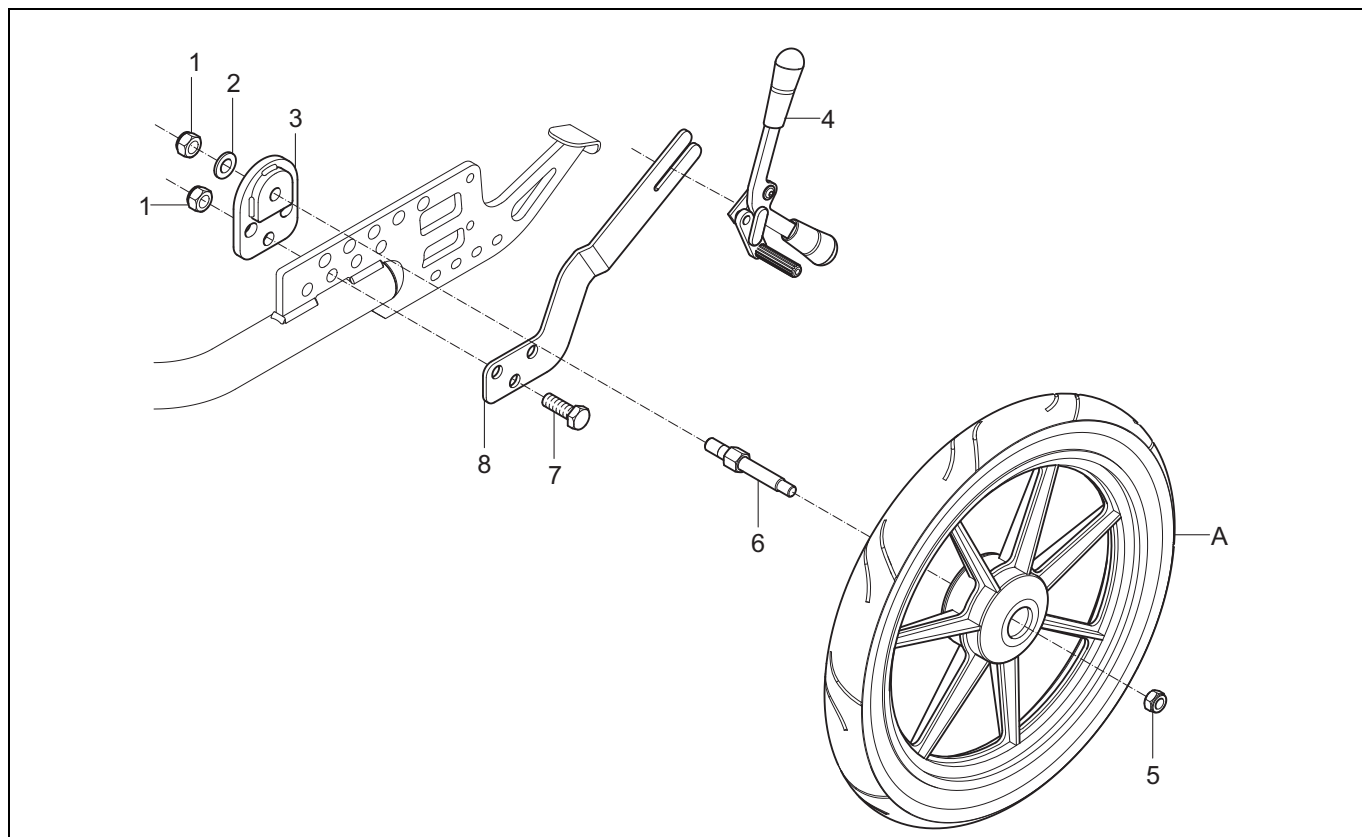
Pos	Article number	Units	Description	Price p/p 2008
1	00000.4060	2	Cyl cap screw M4X20	€ 0,20
2			Zie 042: Wiring and modules Shark	-
3	9001306	1	Battery box extended	€ 217,00
4	1008064	1	Battery cover extended	€ 149,00
5	001.23000.001	2	Star knob M6X13	€ 2,70
6	9000872	1	Adhesive logo button	€ 1,10
7	9002232	1	Logo button	€ 5,70
8	00355.4014	2	Battery 38 Ah (C20) Dryfit A500	€ 211,00
9	9001308	2	Battery strap	€ 15,00
10	055.00000.013	1	Wire battery loop	€ 38,00
11	9001373	1	Power cable Shark	€ 29,00
12	1001651	1	Label wiring diagram	€ 3,70
13	9002098	1	Cover for power module	€ 13,00

3.4 Ibis XC 16" and Ibis XC Power Support



Drawing	Description	Page
029	Carrier (See 011)	41
030	Seat post (See 012)	42
031	Brake system (XC 16")	63-64
032	Brake system (XC Power Support)	65
033	Swivel castor (See 015)	45
034	Rear wheel (XC 16")	66
035	Battery pack	67
036	Remote (XC Power Support)	68

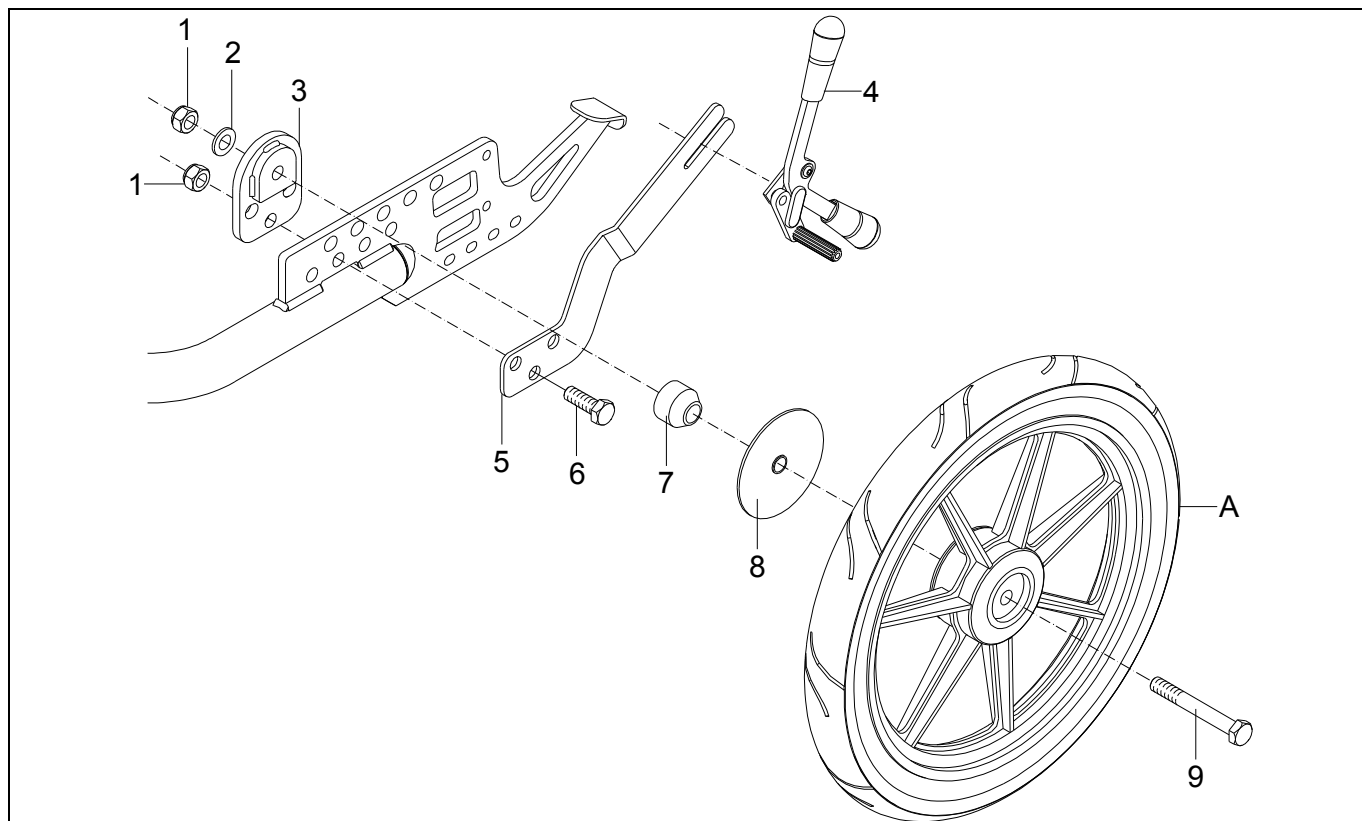
- 031 Brake system (XC 16") **Situation upon serial number: JIX 6387.**

**Note:**

From serial number JIX 6388 the 16" wheel and mounting has been changed. If parts are needed for the old situation, the new situation should be applied. We advise to change both sites.

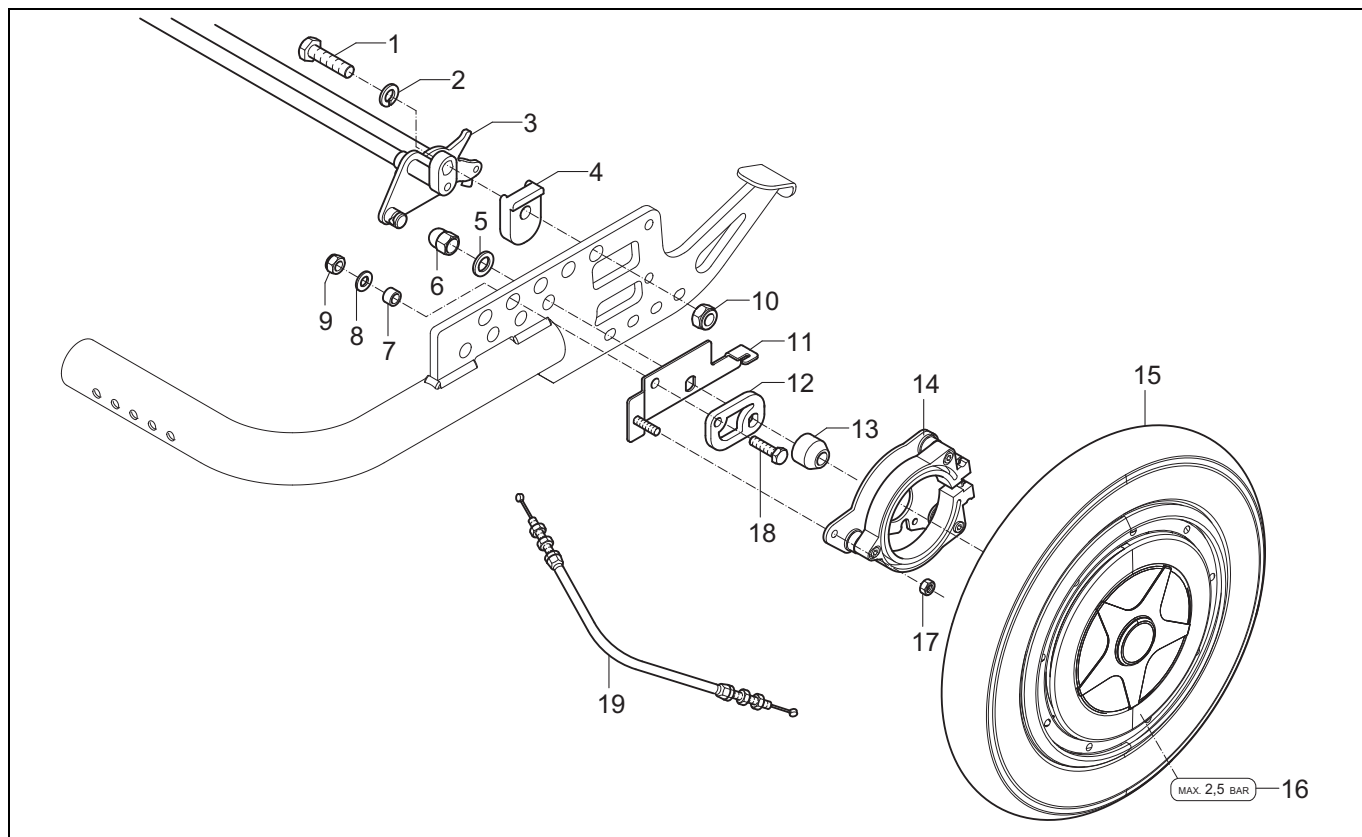
For spare parts see drawing 31a

- 031a Brake system (XC 16") **Situation from serial number: JIX 6388.**



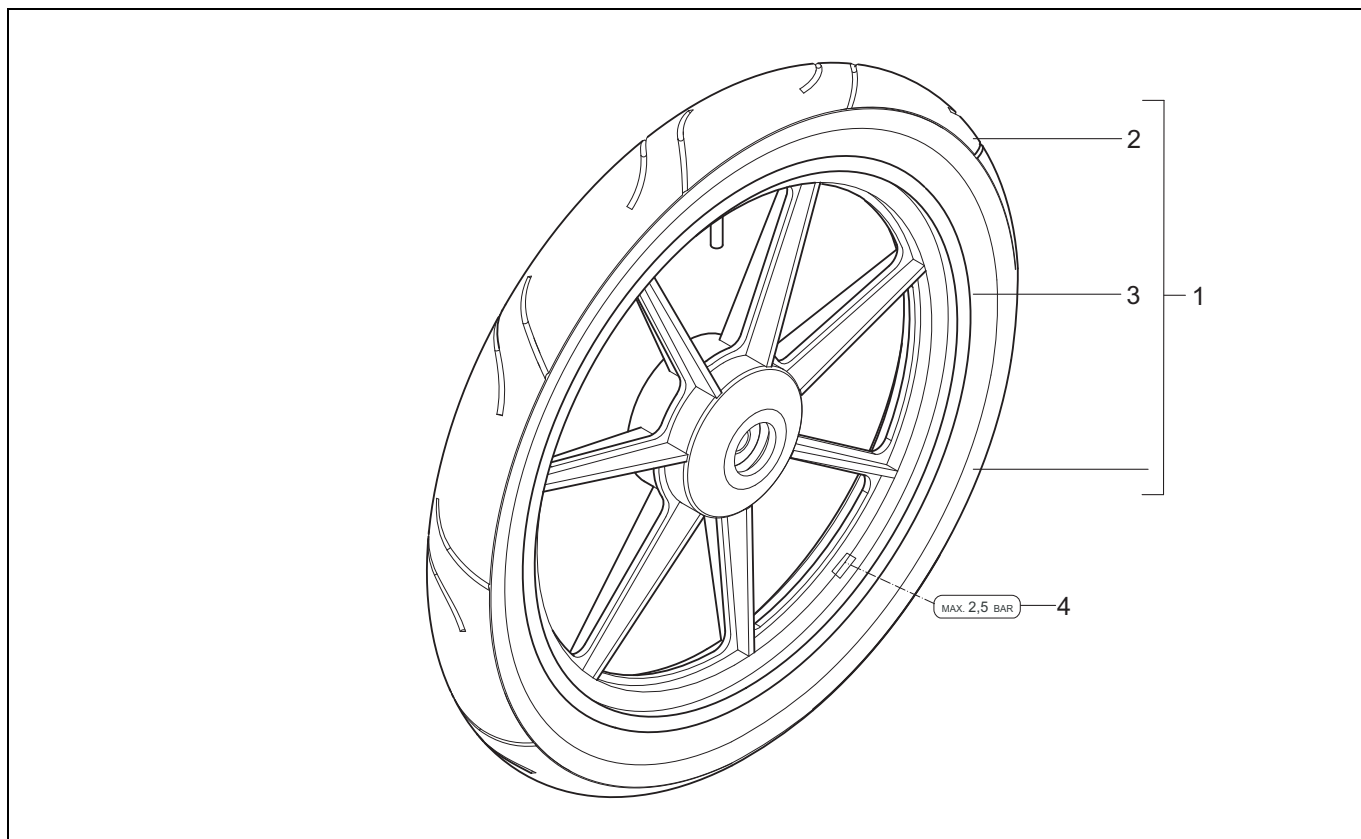
Pos	Article number	Units	Description	Price p/p 2008
1	00000.1704	6	Lock nut M12	€ 0,60
2	00000.2005	2	Washer flat M12	€ 0,30
3	9001254	2	Interface plate	€ 25,00
4	9001184	1	Brake assy left - double action	€ 38,00
	9001183	1	Brake assy right - double action	€ 38,00
5	9001204	1	Brake mounting plate left	€ 39,00
	9001203	1	Brake mounting plate right	€ 39,00
6	1002639	4	Hex bolt M12X35	€ 1,10
7	9001766	2	Spacer	€ 5,00
8	9001376	2	Cover	€ 39,00
9	9001817	2	Hex bolt M12x90	€ 0,80
A			See 034: Rear wheel XC 16"	-

- 032 Brake system (XC Power Support)



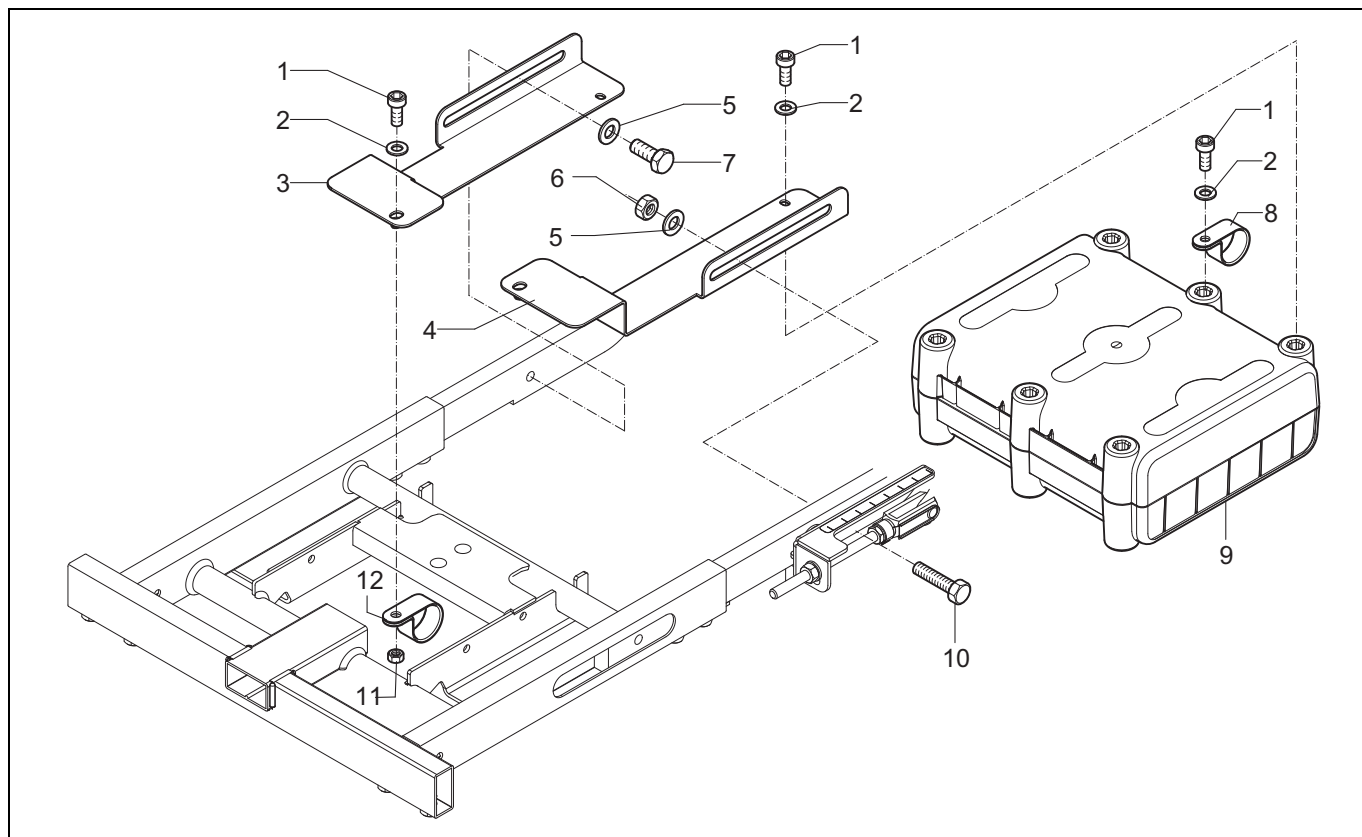
Pos	Article number	Units	Description	Price p/p 2008
1	001.03010.001	2	Hex bolt M10x40	€ 0,40
2	00000.2004	2	Washer flat M10	€ 0,20
3	1003706	1	Foot lever	€ 122,00
4	9000995	2	Fixation block	€ 29,00
5	1003707	2	Toothed spring washer M14	€ 0,50
6	1003708	2	Cap lock nut M14	€ 0,60
7	00000.5712	2	Distance bush nylon 8.2X12X7.5	€ 0,70
8	00000.2003	2	Washer flat M8	€ 0,20
9	00000.1702	2	Lock nut M8	€ 0,30
10	00000.1703	2	Lock nut M10	€ 0,50
11	9001005	1	Brake fixation plate left	€ 25,00
	9001006	1	Brake fixation plate right	€ 25,00
12	9001765	2	Fixation plate power support	€ 7,60
13	9001766	2	Spacer	€ 5,00
14	1002480	2	Power support brake hub	€ 59,00
15	1002544	2	Power support wheel assy	€ 1.065,00
16	00001.1461	2	Label tyre pressure 2.5 Bar	€ 0,50
17	00000.1701	1	Lock nut M6	€ 0,20
18	00000.4311	1	Hex bolt M8X20	€ 0,20
19	1002481	2	Power support brake cable	€ 59,00
20	1002484	2	Tyre	€ 38,00
21	15010.4100	2	Tube	€ 13,00

- 034 Rear wheel (XC 16")



Pos	Article number	Units	Description	Price p/p 2008
1	9002038	1	Wheel 16" air	€ 115,00
	9002039	1	Wheel 16" PU	€ 217,00
2	1003693	1	Tyre 16"	€ 38,00
3	1003694	1	Tube 16"	€ 13,00
4	00001.1461	2	Label tyre pressure 2.5 Bar	€ 0,50

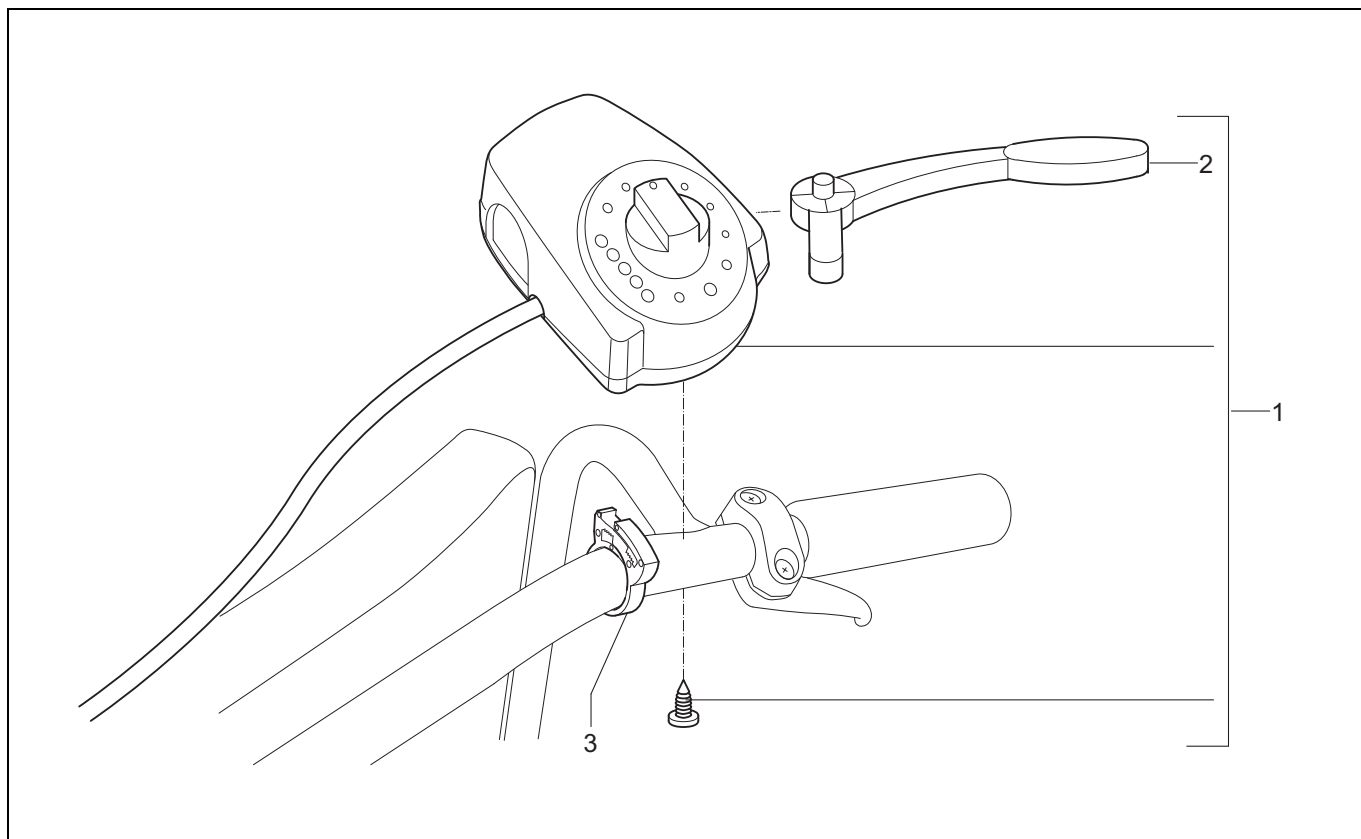
- 035 Battery pack



Pos	Article number	Units	Description	Price p/p 2008
1	00000.4036	8	Cyl cap screw M5X12	€ 0,20
2	00000.2101	8	Washer flat 3XD M5	€ 0,20
3	9001019	1	Power pack mounting plate right	€ 31,00
4	9001015	1	Power pack mounting plate left	€ 31,00
5	00000.2003	2	Washer flat M8	€ 0,20
6	00000.1702	2	Lock nut M8	€ 0,30
7	00000.4312	1	Hex bolt M8X16	€ 0,20
8	7648	2	P-clip 11/16	€ 0,30
9	1003444	1	Power support battery pack	€ 1.584,00
10	00000.4113	2	Hex bolt M8X35	€ 0,30
11	00000.1700	2	Lock nut M5	€ 0,20
12	1003710	2	P-clip 7/8	€ 1,60

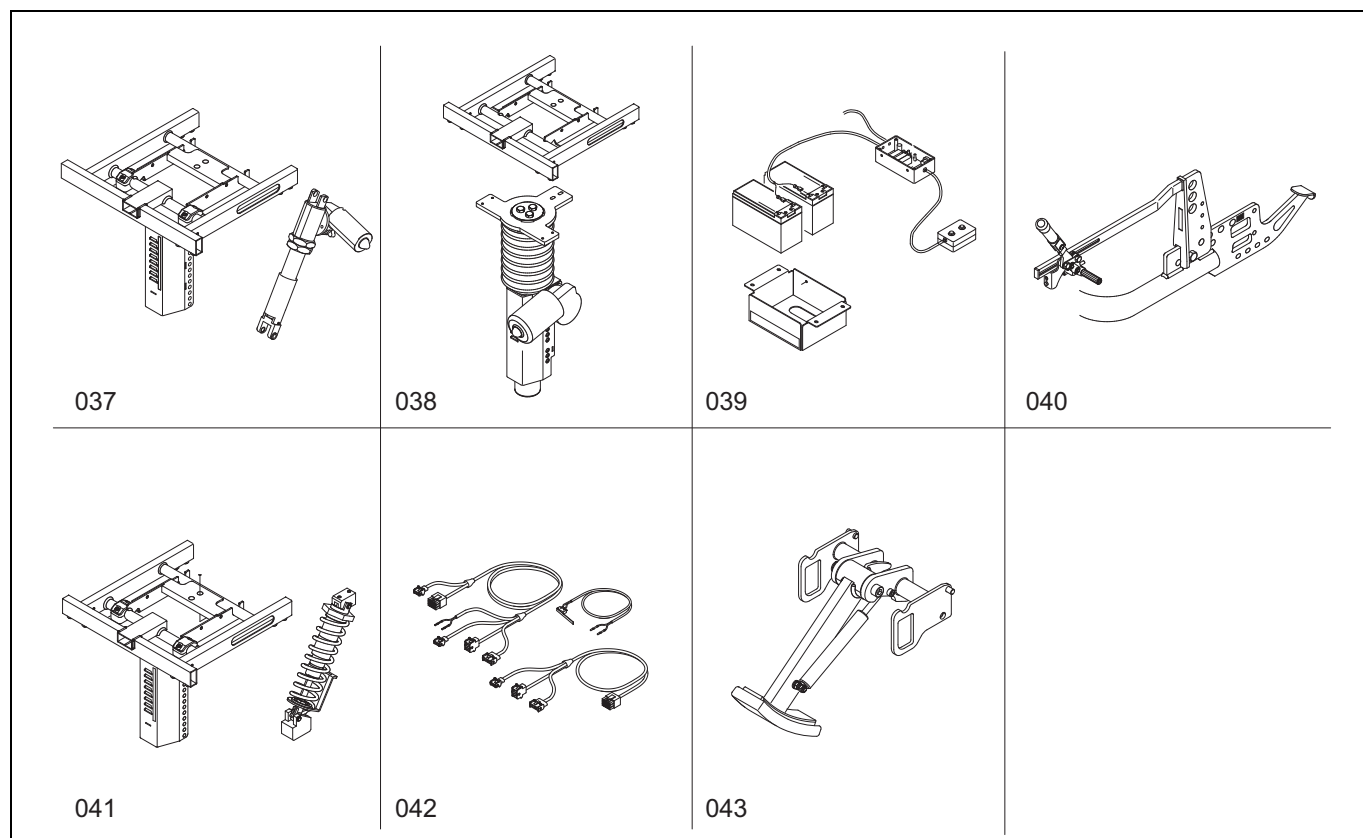
-	1002358	1	Charger Power Support	€ 282,00
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- 036 Remote (XC Power Support)



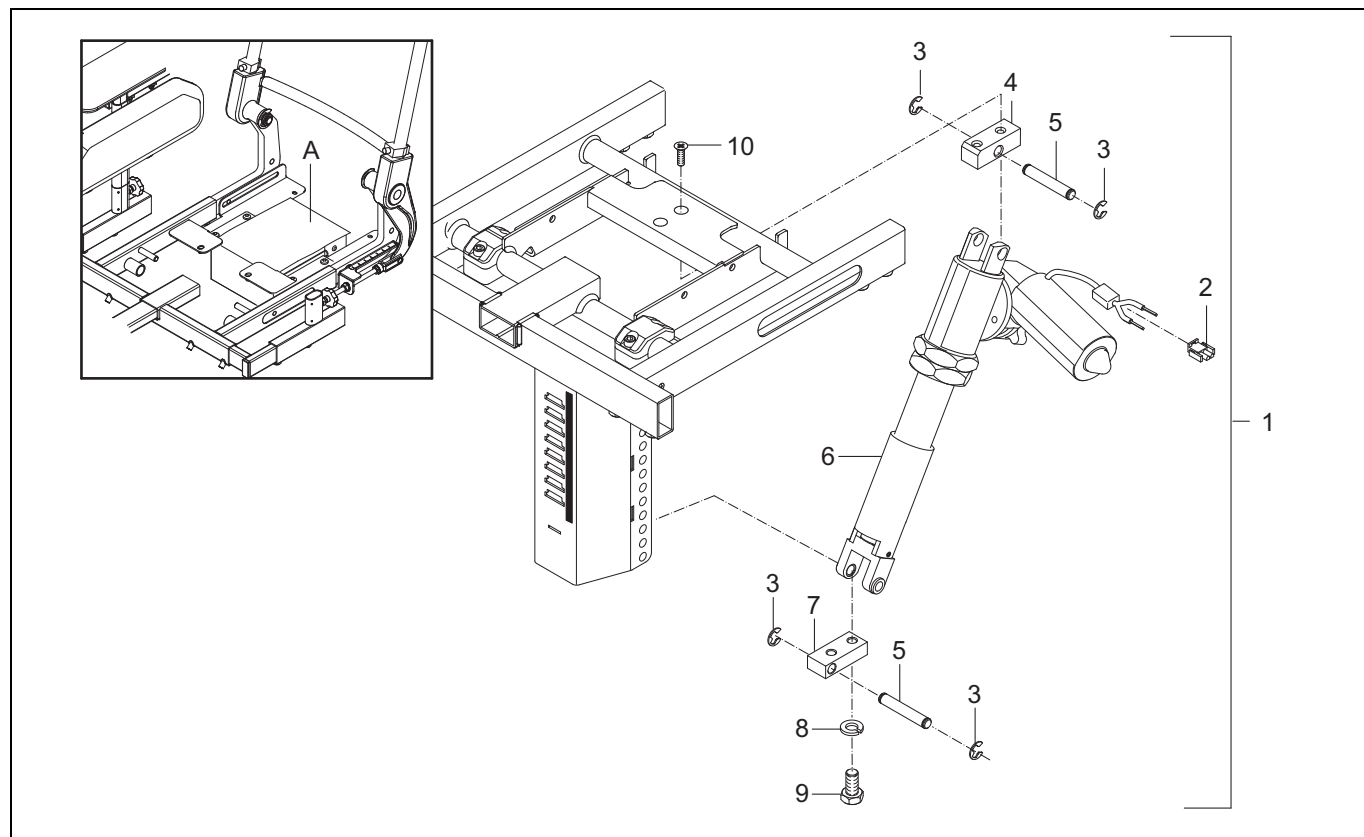
Pos	Article number	Units	Description	Price p/p 2008
1	1002482	1	Power support remote	€ 226,00
2	1002483	1	Power support throttle lever	€ 17,00
3	1003020	1	Tube clamp	€ 1,70

3.5 Options, wiring and modules



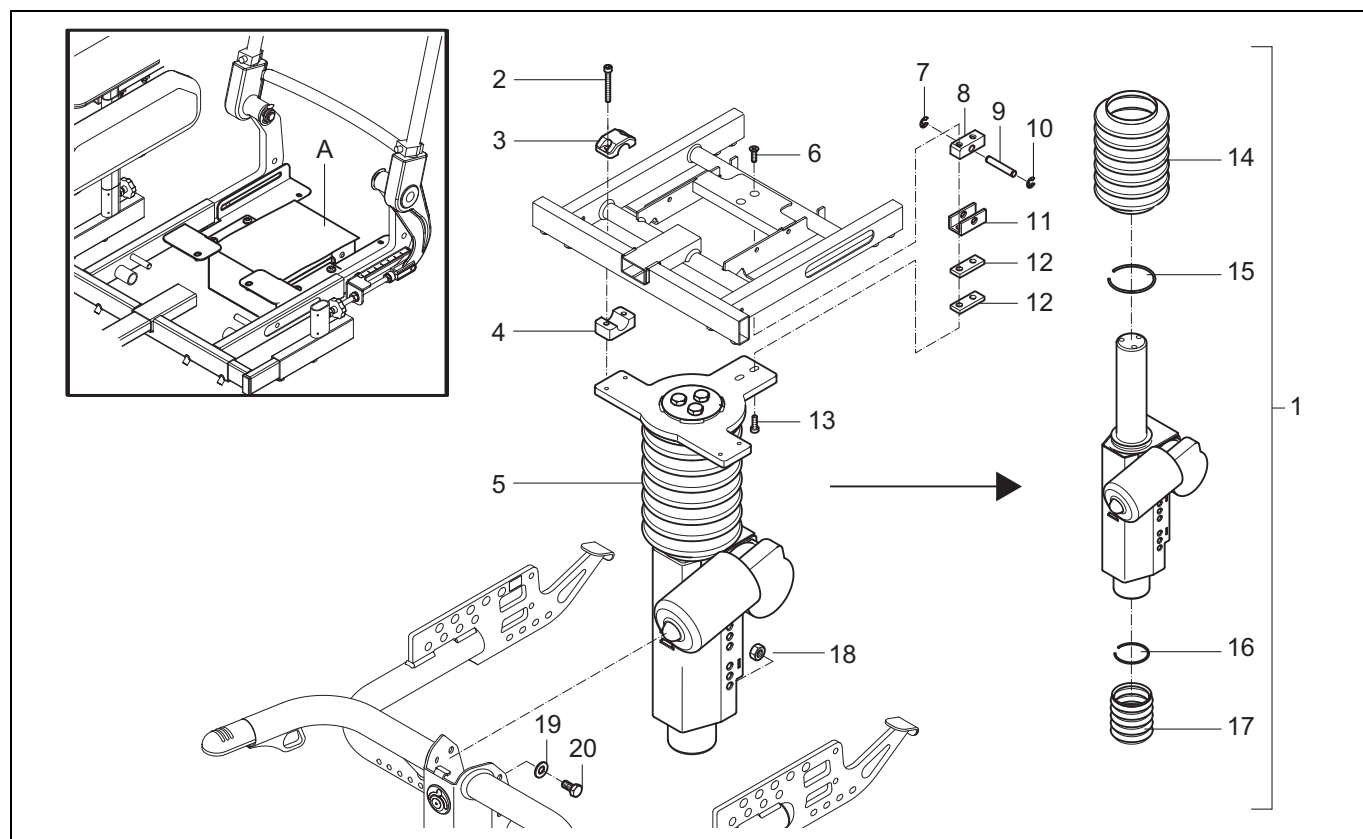
Tekening	Benaming	Pagina
037	Electrical tilt	70
038	Electrical lift	71
039	Supplementation set for electrical tilt or lift XA/XC	72
040	Coupled push brake Ibis XA	73
041	Tilt operated by user	74
042	Wiring and modules Shark	75
043	Kerb climber	76

- 037 Electrical tilt



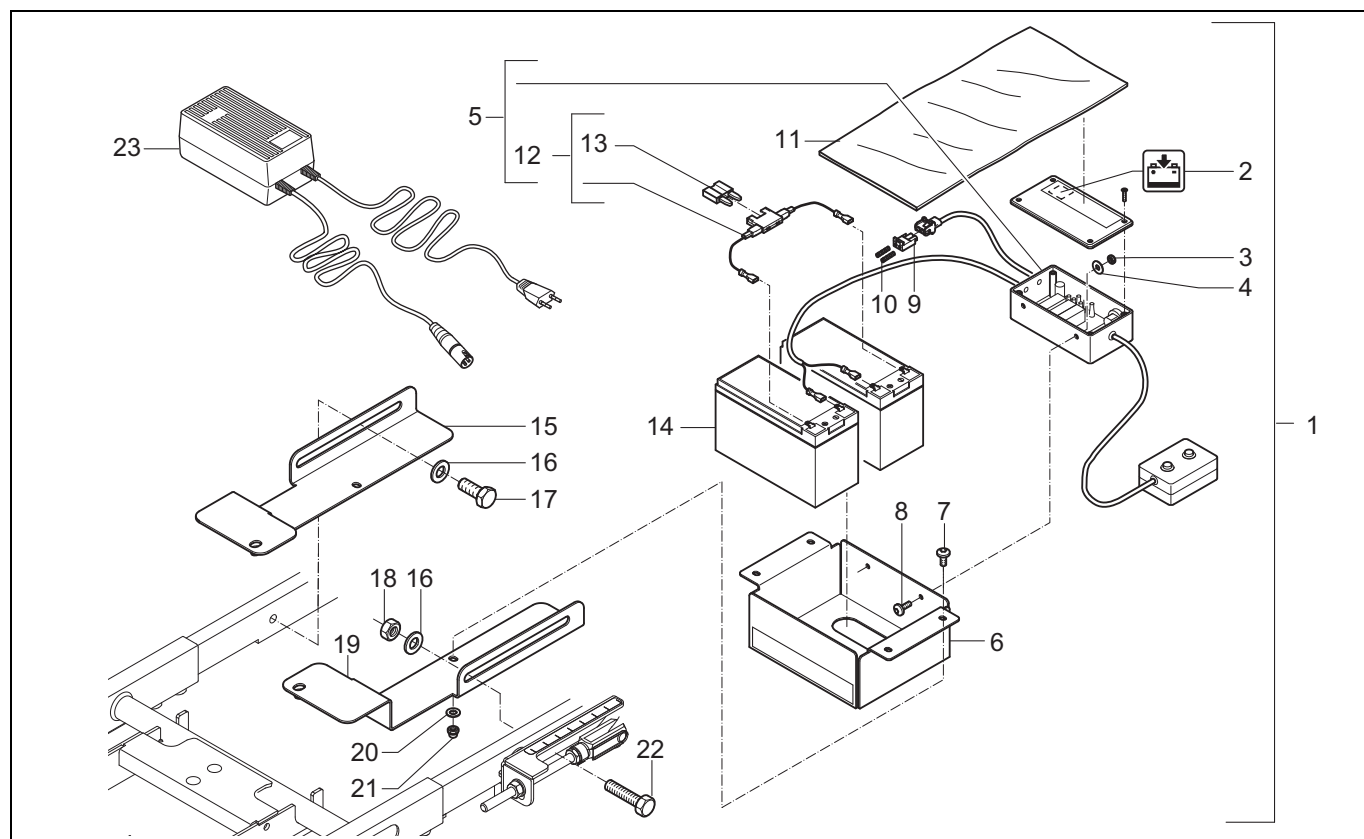
Pos	Article number	Units	Description	Price p/p 2008
1	1003391	1	Electrical tilt	€ 947,00
2	00355.5573	1	AMP plug 2-polig	€ 1,10
3	00000.1404	4	Shaft lock washer 7MM	€ 0,20
4	9001398	1	Hinge block	€ 21,00
5	9001509	2	Axle	€ 6,70
6	9001282	1	Actuator for electrical tilt	€ 893,00
7	9001128	1	Gas spring hinge block	€ 17,00
8	00000.2203	2	Spring washer SW8	€ 0,20
9	00000.4312	2	Hex bolt M8x16	€ 0,20
10	00000.3608	2	Screw M8X16	€ 0,20
A			See 039: Supplementation set for electrical tilt or lift, XA/XC	-

- 038 Electrical lift



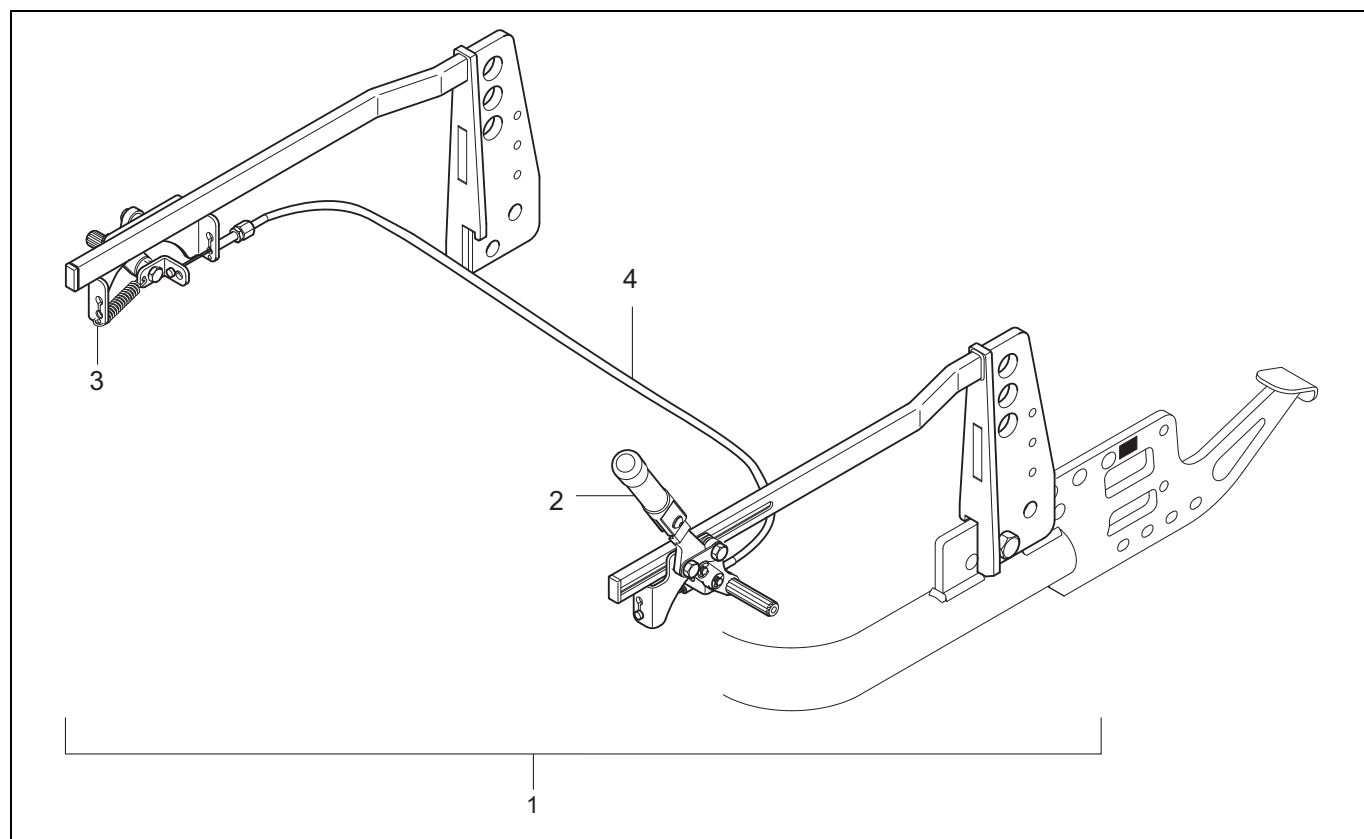
Pos	Article number	Units	Description	Price p/p 2008
1	1006098	1	Electrical lift, XP, 125kg	€ 1.942,00
	1006115	1	Electrical lift, XP, 160kg	€ 2.288,00
2	00000.4014	4	Cyl cap screw M6X50	€ 0,30
3	02010.6182	2	Upper block	€ 1,60
4	02010.7682	2	Washer	€ 1,60
5	9001717	1	Electrical lift module, XP, 125kg	€ 1.893,00
	9001835	1	Electrical lift module, XP, 160kg	€ 2.223,00
6	00000.3608	2	Screw M8X16	€ 0,20
7	00000.1404	1	Shaft lock washer 7MM	€ 0,20
8	9001398	1	Hinge block	€ 21,00
9	9001154	1	Axis gas spring	€ 6,30
10	00000.1404	1	Shaft lock washer 7MM	€ 0,20
11	9001547	1	Hinge bracket	€ 21,00
12	9001548	2	Locknut M8 D985/8/vz	€ 6,00
13	00000.4044	2	Washer flat M8 D125A/vz	€ 0,20
14	9001838	1	Bellows large	€ 84,00
15	9001841	1	Spring clip large	€ 15,00
16	9001840	1	Spring clip small	€ 15,00
17	9001839	1	Bellows small	€ 27,00
18	00000.1702	4	Locknut M8 D985/8/vz	€ 0,30
19	00000.2003	4	Washer flat M8	€ 0,20
20	00000.4312	4	Hex bolt M8x16	€ 0,20
A			See 039: Supplementation set for electrical tilt or lift, XA/XC	-

- 039 Supplementation set for electrical tilt or lift XA/XC



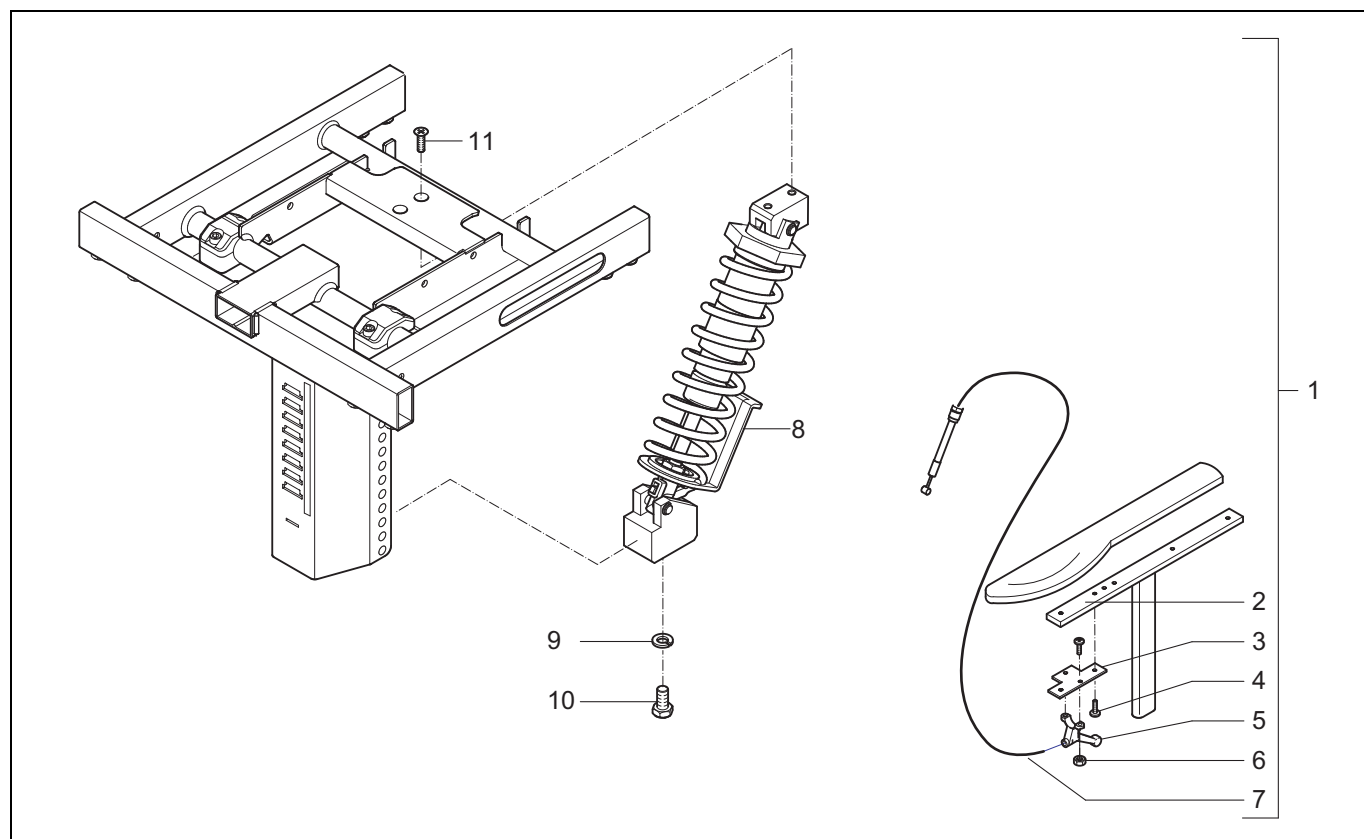
Pos	Article number	Units	Description	Price p/p 2008
1	1003378	1	Supplementation set for electrical tilt or lift, XA/XC	€ 947,00
2	008.00000.251	1	Sticker, charger socket	€ 0,60
3	00000.1700	2	Locknut M5 D985/8/VZ	€ 0,20
4	00000.2101	2	Washer flat 3XD M5 D9021/VZ	€ 0,20
5	1003284	1	Electrical control	€ 639,00
6	9001603	1	Battery box for electrical tilt or lift, XA/XC	€ 45,00
7	00000.4313	4	Hex bolt M6x16	€ 0,20
8	00000.3716	2	Button head M5X12 VZ	€ 0,30
9	00355.5572	1	AMP plug 2-polig	€ 1,10
10	00355.5553	2	AMP contact female	€ 0,60
11	9001604	1	Batterycover	€ 18,00
12	00355.4301	1	Fuse holder	€ 3,60
13	005.01190.000	1	Blade fuse 15A	€ 3,50
14	00355.4015	2	Battery	€ 175,00
15	9001019	1	Power pack mounting plate right	€ 31,00
16	00000.2003	2	Washer flat M8 D125A/vz	€ 0,20
17	00000.4312	1	Hex bolt M8x16	€ 0,20
18	00000.1702	1	Locknut M8 D985/8/vz	€ 0,30
19	9001015	1	Power pack mounting plate left	€ 31,00
20	00000.2002	4	Washer flat M6 D125A/VZ	€ 0,20
21	00000.1701	4	Locknut M6 D985/8/VZ	€ 0,20
22	00000.4303	1	Hex. tap bolt M8X35 D933/8.8 VZ	€ 0,30
23	1003403	1	Charger	€ 275,00

- 040 Coupled push brake Ibis XA



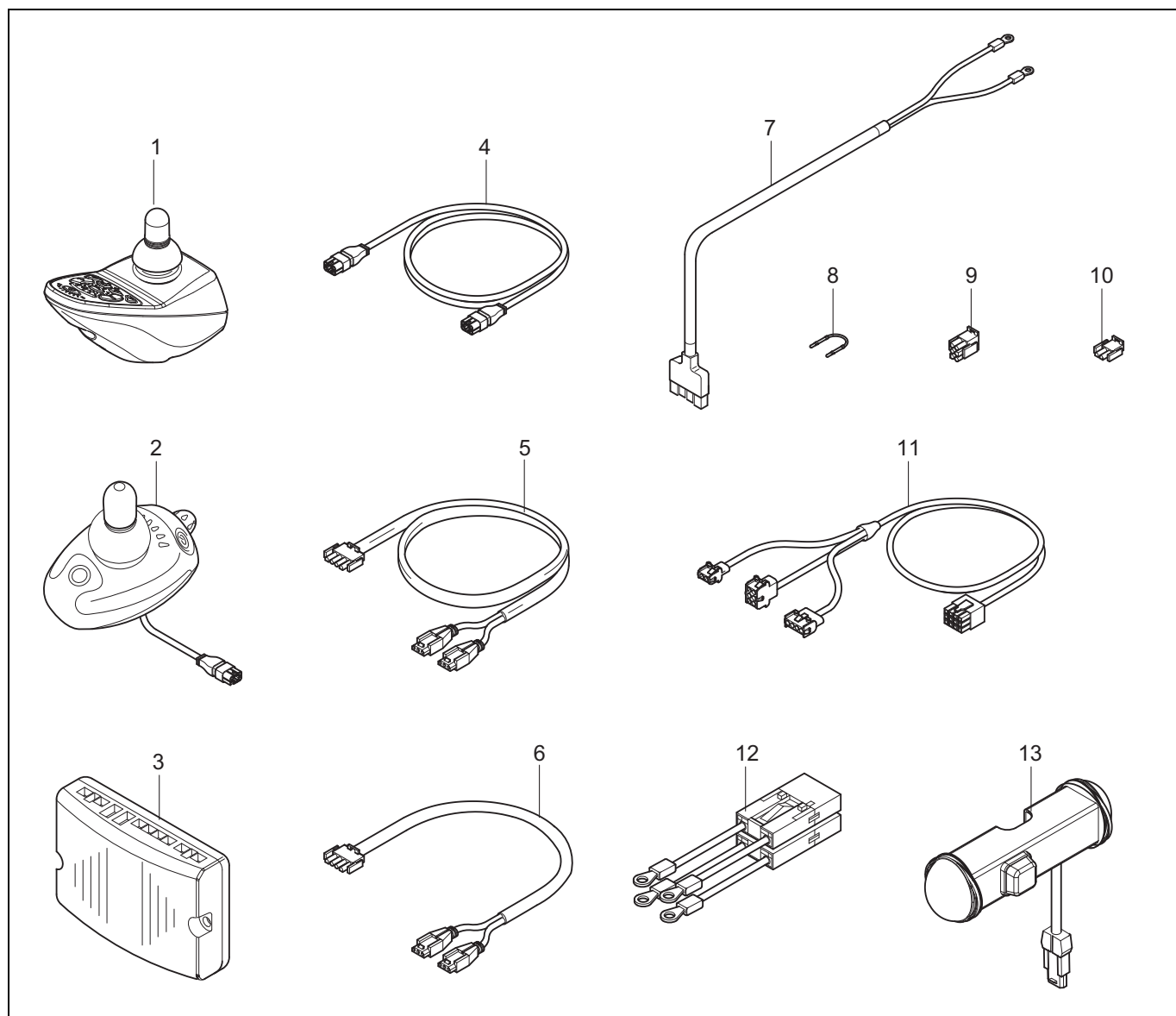
Pos	Article number	Units	Description	Price p/p 2008
1	1003167	1	Coupled push brake, left	€ 304,00
	1003168	1	Coupled push brake, right	€ 304,00
2	9001551	1	Brake, active, left	€ 156,00
	9001668	1	Brake, active, right	€ 156,00
3	9001671	1	Brake, passive, left	€ 138,00
	9001552	1	Brake, passive, right	€ 138,00
4	9001515	1	Cable for coupled brake	€ 8,70

- 041 Tilt operated by user



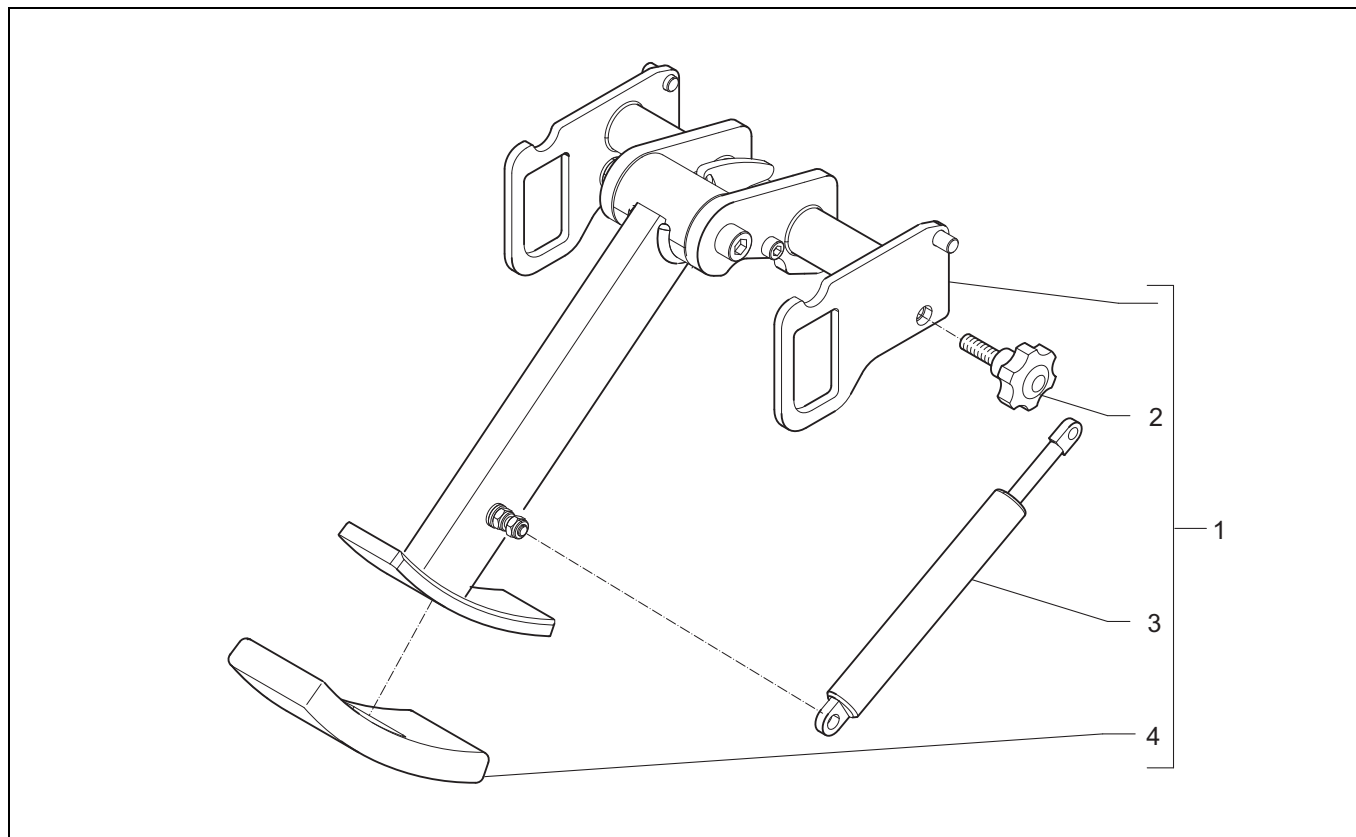
Pos	Article number	Units	Description	Price p/p 2008
1	1003521	1	Self tilt 60-90 KG, Ibis X-Series	€ 617,00
	1003522	1	Self tilt 90-120 KG, Ibis X-Series	€ 617,00
2	00000.3606	2	Screw pl.verz/kr M5X16 VZ	€ 0,20
3	9001364	1	Mounting bracket	€ 12,00
4	1002641	2	Self tapping screw M5x20	€ 0,40
5	00000.6410	1	Handle	€ 9,50
6	00000.1700	2	Locknut M5 D985/8/VZ	€ 0,20
7	9001511	1	Cable for self tilt	€ 5,50
8	9001631	1	Self tilt module 60-90 KG, Ibis X-Series	€ 585,00
	9001632	1	Self tilt module 90-120 KG, Ibis X-Series	€ 585,00
9	00000.2203	2	Spring washer SW8	€ 0,20
10	00000.4312	2	Hex bolt M8x16	€ 0,20
11	00000.3608	2	Screw M8X16	€ 0,20

- 042 Wiring and modules Shark



Pos	Article number	Units	Description	Price p/p 2008
1	1003091	1	Shark remote drive & lighting	€ 844,00
	1002943	1	Shark remote lighting & actuators	€ 900,00
2	1001179	1	Shark remote drive only	€ 741,00
3	1001180	1	Shark power mod. drive only	€ 909,00
	1003092	1	Shark power module drive & lighting	€ 990,00
	1002944	1	Shark power module lighting & actuators	€ 1.047,00
4	1002945	1	Shark cable 1,5M	€ 65,00
5	055.00095.000	1	Harness lights, long	€ 101,00
6	00355.1080	1	Harness lights, standard	€ 12,00
7	9001373	1	Power cable Shark	€ 29,00
8	00355.1140	1	Speed limiter bridge	€ 2,50
9	1003280	1	AMP plug 6P	€ 4,60
10	00355.5573	1	AMP plug 2-polig	€ 1,10
11	9001467	1	Harness lights & seat short	€ 113,00
12	055.00000.013	1	Wire battery loop	€ 38,00
13	1007951	2	Lighting & indicators, compact version	€ 266,00

- 043 Kerb climber



Pos	Article number	Units	Description	Price p/p 2008
1	9001345	1	Kerb climber Ibis XP	€ 293,00
2	00000.6801	2	Star knob M8x20	€ 1,80
3	03411.2100	1	Kerb climber gas spring	€ 90,00
4	03411.0190	1	Kerb climber shoe	€ 13,00

15-12-2006: Version 2007v3

adapted drawing 016 and 044. Added drawing 033a.

20-02-2007: Version 2007v4

Adapted drawing 008, 009 and 010. Added drawing 029a and 030a. Removed drawing 007.

04-06-2007: Version 2007v5

Adapted drawing 001, 002, 003, 004, 005, 006, 007, 009, 010, 015, 017, 021, 024, 026, 032, 034, 036, 037, 041, 042 and 043. Added drawing 027a and 028a. Added overview chapter 3.5

