



Service manual – TR Comfortline / TR Ecoline
Incl. spare parts list



The recommended frequency of the maintenance procedures will depend on how often the equipment is used and on the hardness of the water supplied at place of installation.

It is good practice to establish these routine procedures on a weekly basis and adjust the frequency based on usage of the equipment.



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*Hygiene Equipment
Designed for People*

Introduction

Dear customer,

If you need spare parts and can't find it in the spare parts list, contact TR Equipment.



*Hygiene Equipment
Designed for People*

Manufacturer



TR Equipment AB
Rundelgatan 2
SE-573 35 Tranås
Sweden

Phone: +46 (0)140 38 50 60

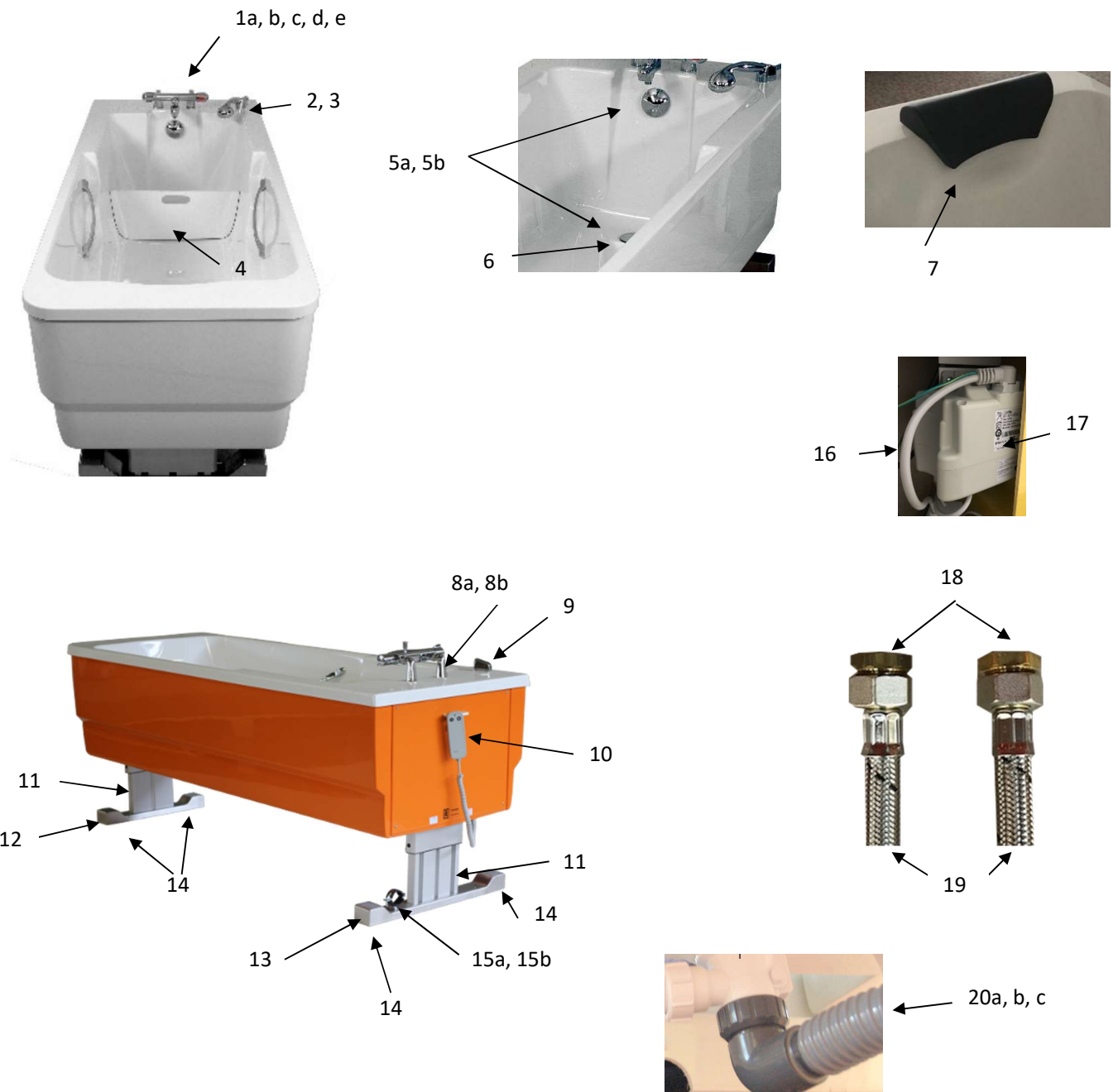
www.trequipment.com

info@trequipment.se



Spare parts list TR Comfortline

Spare parts





Spare parts list TR Comfortline

Spare parts

Position	Part number	Spare part
1a	200033	Thermostatic mixer Grotherm 800
1b	851884	Thermostatic mixer Grotherm 2000, Cool touch
1c	851906	Thermostatic mixer Legionella, FMM900E
1d	851905	Thermostatic mixer TMV2, FMM900E
1e	851900	Thermostatic mixer TMV3
2	851868	Shower handle, Chromed
3	829098	Shower hose, silver
4	851861	Removable foot support
5a	829280	Overflow drainage incl. knob and drain plug
5b	851903	UK Overflow drainage with chain and drain plug (option)
6	829279	Drain plug
7	851878	Pillow (option)
8a	851872	Mixer feet
8b	851872-02	Mixer feet, long version: Needed when using FMM 9000E TMV2 mixer, FMM9000E Antibactus mixer and when using backflow preventer 851879 between shower hose and thermostatic mixer.
9	829173	Bracket for shower handle, chromed
10	851894-03	Hand control (see page 29 for older versions)
11	851890	Lifting column
12	7230666	Bath tub foot, short
13	7230667	Bath tub foot, wide
14	851840	Adjustable feet
15a	819901	Drainage holder, Ø40mm drainage
15b	829090	Drainage holder, Ø50mm drainage
16	851893-02	Control box power cord
17	851893	Control box
18	820198-6090	Conversion nipple R20/R15
19	851880	Flexible connecting hose
20a	3426346	Drainage hose with Ø40mm plastic pipe
20b	Contact TR Equipment	Drainage hose Ø40mm incl. water trap and hose
20c	05104042	Drainage hose Ø50mm incl. water trap and hose



Spare parts list TR Comfortline

Drainages



Overflow drainages

Tub drainages

Position	Part number	Spare part
5a	829280	Overflow drainage, std, incl knob and drain plug
6	829279	Drain plug for overflow drainage 829280
5b	851903	Overflow drainage, UK, optional
20a	3426346	Drainage hose with Ø40mm plastic pipe
20b	Contact TR Equipment	Drainage hose Ø40mm incl. water trap and hose
20c	05104042	Drainage hose Ø50mm incl. water trap and hose



Spare parts list TR Comfortline

Thermostatic mixers

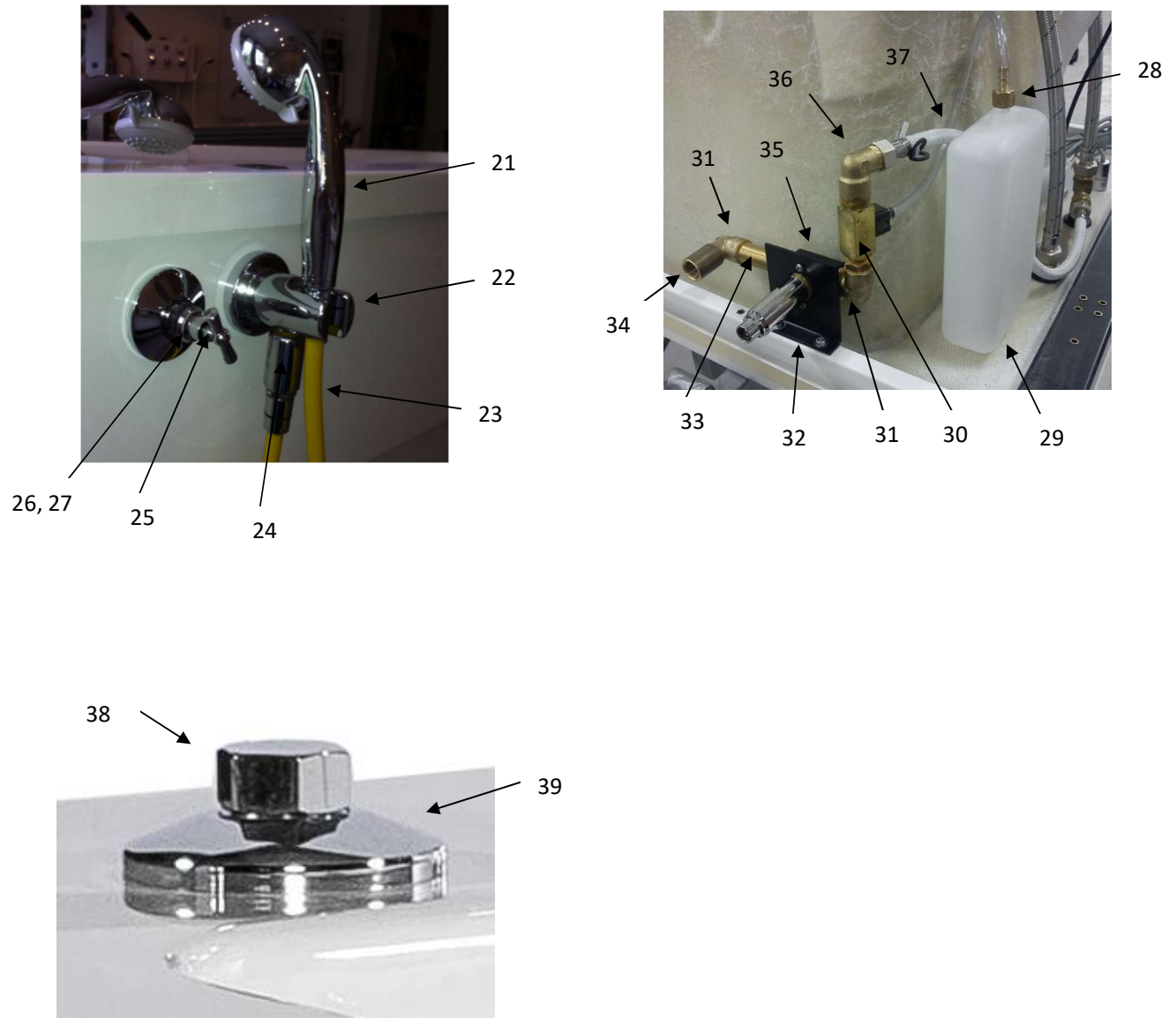


Position	Part number	Spare part
1a	851883	Thermostatic mixer Grotherm 800
1b	851884	Thermostatic mixer Grotherm 2000, Cool touch
1c	851906	Thermostatic mixer Legionella, FMM9000E
1c	851905-02	Filling spout FMM9000E
1d	851905	Thermostatic mixer TMV2, FMM9000E
1d	851905-02	Filling spout FMM9000E
1e	851900	Thermostatic mixer RADA TMV3



Spare parts list TR Comfortline

Cleaning





Spare parts list TR Comfortline

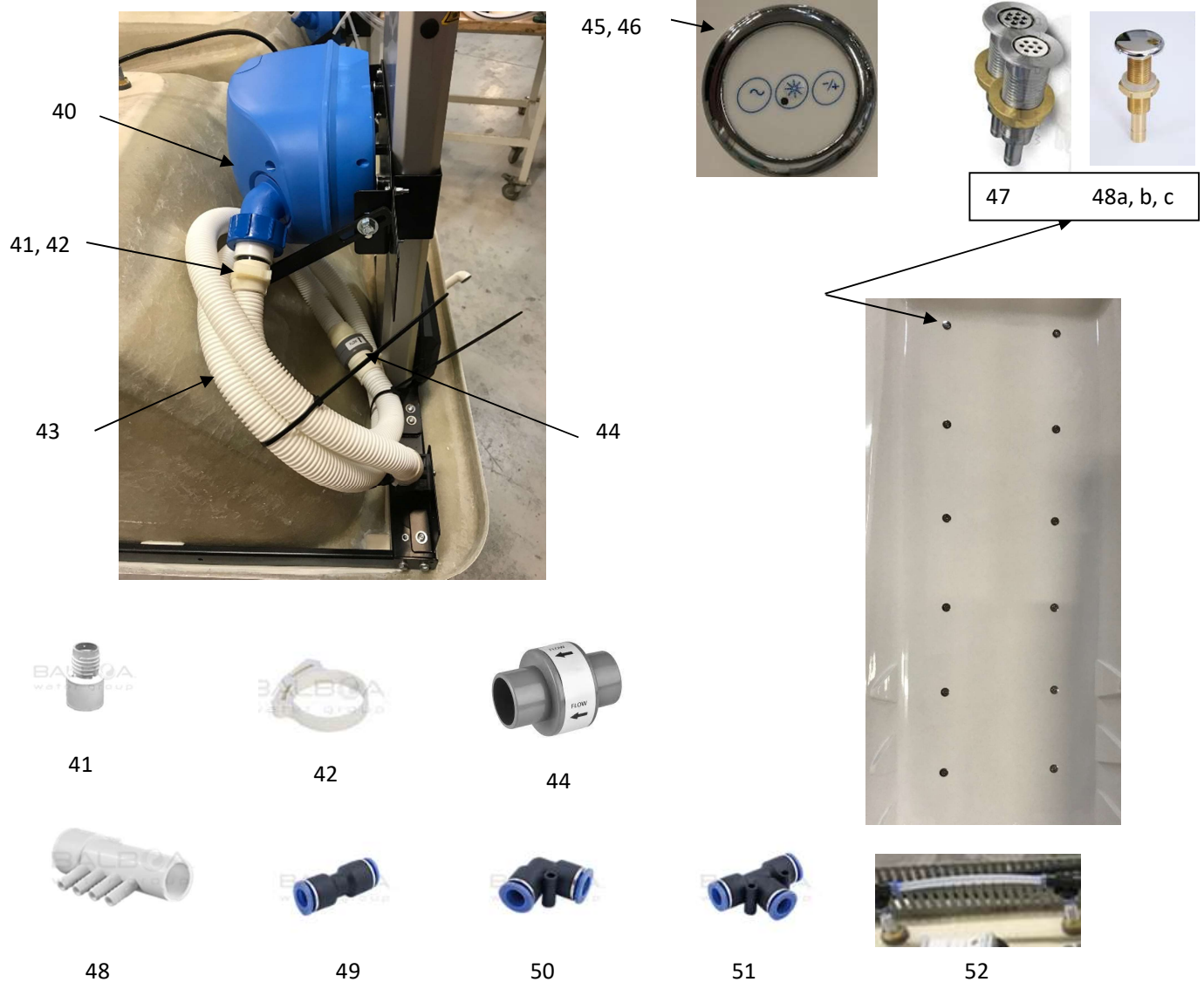
Cleaning

Position	Part number	Spare part
21	851868	Cleaning handle, chromed, chromed
22	851877	Bracket for cleaning handle
23	829096	Yellow cleaning hose
24	851875	Pipe interrupter
25	829289-02	Valve key
26	829289	Cleaning valve R15 / ½" incl, key, disc and valve stem
27	829307	Valve stem R15 / ½"
28	829088	Hose nipple
29	850614	Cleaning bottle
30	829070	Cleaning injector DEMA
31	820198-2032	90° Brass angle R15/15 internal
32	3430655	Mounting bracket
33	3426359	Brass pipe rod R15 / ½"
34	820198-8039	Brass cuff R15 / ½"
35	3430921	Bracket cleaning valve
36	820198-2834	90° Brass angle R15 internal/external
37	7426262-02	White connecting hose R15
38	851873	Lid for cleaning bottle, chromed
39	851876	Disc, chromed



Spare parts list TR Comfortline

Air spa – Balboa Genesis (from 2018 and serial number 204610 onwards)





Spare parts list TR Comfortline

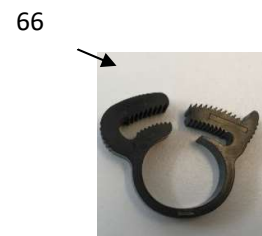
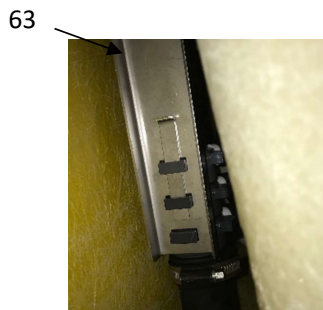
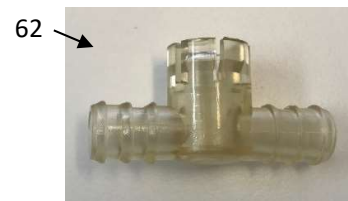
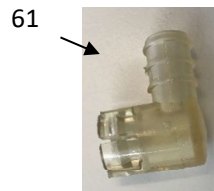
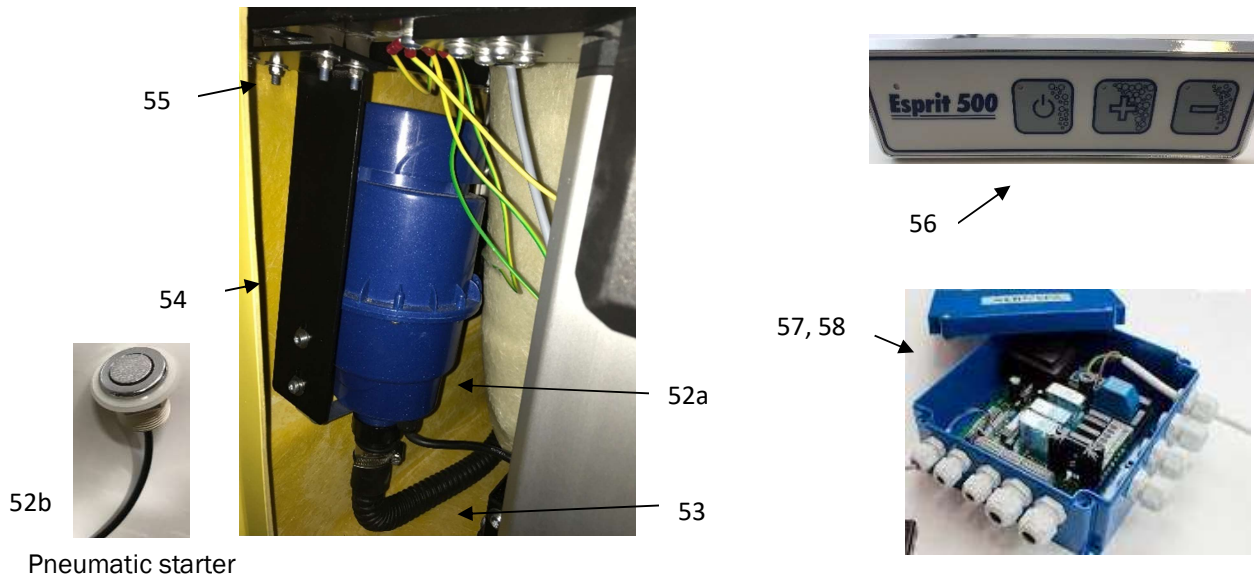
Air spa – Balboa Genesis

Position	Artikelnummer	Reservdel
40	860000	Blower Genesis
41	860002	Hose cuff
42	860001	Hose clamp
43	860003	Blower hose
44	860007	Check valve
45	860008	Control panel
46	860009	Control panel ring, chromed
47	8600010	Air jet 14mm
48a	819047	Air jet 12mm incl. Chromed cap and Stainless steel ball Used on baths produced from 2021-06.
48b	819047-02	Air jet Cap, chromed
48c	819047-03	Air jet Stainless steel ball
48	860004	Manifold
49	8600015	Straight connection, 8mm
50	8600014	90° connection, 8mm
51	8600013	T-connection, 8mm
52	8600012	Air jet hose 8mm, transparent



Spare parts list TR Comfortline

Air spa – Spare parts Air spa Esprit 500 used on serial numbers 28117 (2010) to and including 204377 (2017) + serial numbers 204676 (2018) and 204840 (2018).





Spare parts list TR Comfortline

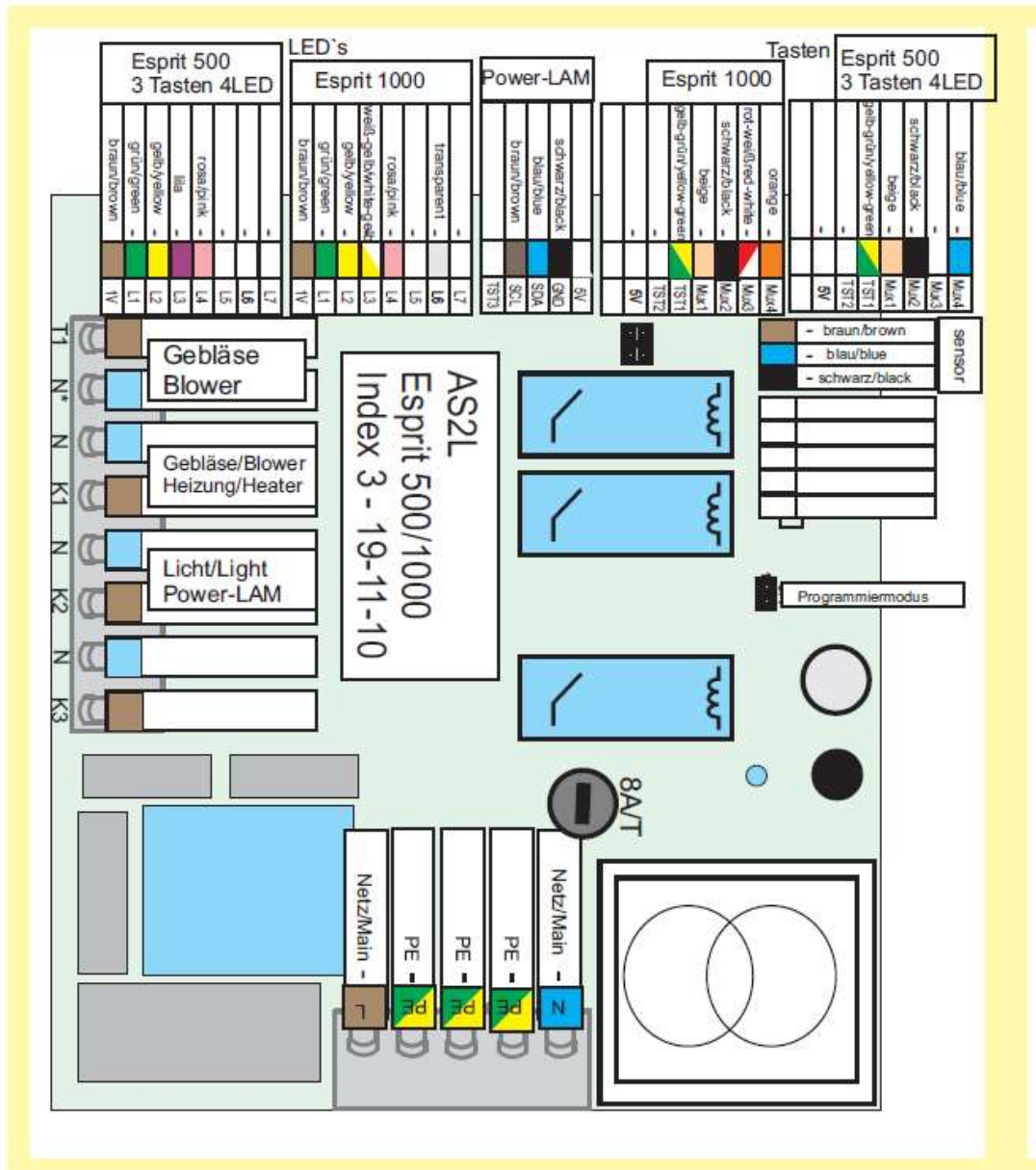
Air spa – Spare parts Airs spa Esprit 500

Position	Artikelnummer	Reservdel
52a	851810	Blower Esprit 500
52b	Contact TR Equipment	Pneumatic starter, micro switch
53	851808	Black blower hose
54	3430654	Bracket
55	851281	Dampers (4pcs/bracket)
56	851814	Control panel Esprit 500
57	851812	Circuit board incl. enclosure
58	851813	Circuit board
59	851838-03	Level sensor
60	851800	Air jet 12mm Aerospa incl. cap and valve pin
61	851802	90° hose connector
62	851804	T-connection
63	3332458	Manifold bracket
64	851818	Manifold
65	851816	White air jet hose
66	851806	Hose clamp



Spare parts list TR Comfortline

Air spa – Wiring diagram Air spa Esprit 500 (before serial number 204610)



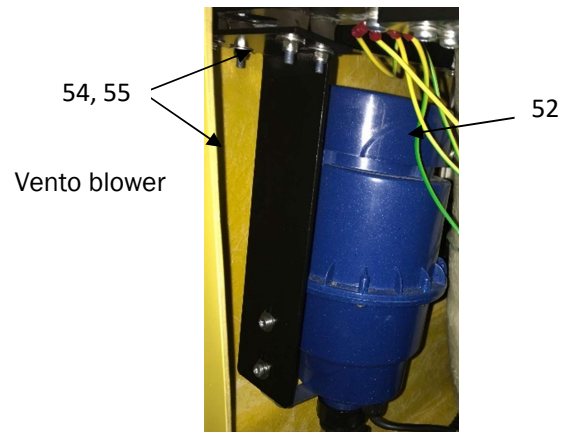


Spare parts list TR Comfortline

Air spa – Vento blower

If your tub is equipped with a Vento blower, replace the blower with following parts:

Position	Artikelnummer	Reservdel
52	851810	Blower Esprit 500
54	3430654	Blower bracket
55	851281	Dampers (4pcs/bracket). Add 4pcs of washer 842041-2053 and 4pcs of nut 841031-4005



Air Spa – Spatech blower

If your tub is equipped with a Spatech blower it still possible to order the blower but not the electronics.

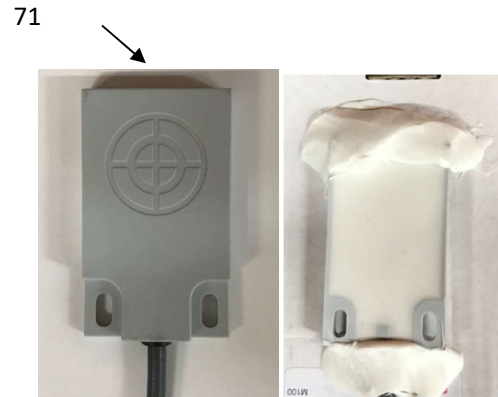


If you need to order a Spatech blower,
contact TR Equipment.



Spare parts list TR Comfortline

Autofill – Spare parts Engdata 2018 used on serial numbers 204609 (2018) onwards.



When mounting the sensors the symbol shall be mounted towards the fiberglass.

White side outwards.



Spare parts list TR Comfortline

Autofill – Spare parts Engdata 2018

Position	Artikelnummer	Reservdel
67	851907	Controlpanel Seritronic
68	818357	Circuit board incl. enclosure
69	829185	Solenoid valve 24VAC incl. coil
70	829187	Power cord with coil connector
71	829188	Level sensor



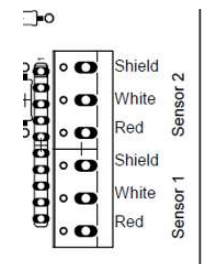
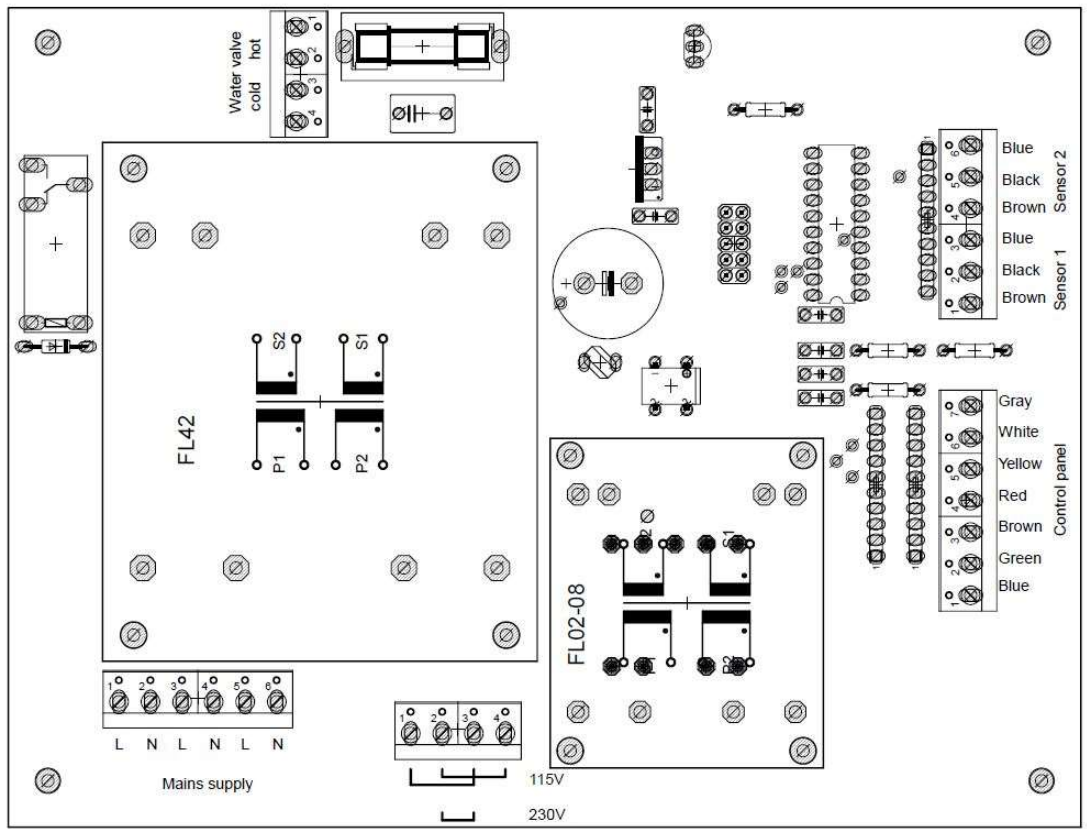
Spare parts list TR Comfortline

Autofill – Wiring diagram Engdata 2018

Wiring diagram for sensors from 2019 week 36.

When replacing old sensors with the new version follow the new wiring diagram.

Wiring diagram for sensors used 2018 and part of 2019.





Spare parts list TR Comfortline

Autofill – Spare parts Esprit used on serial numbers 29826 (2011) to and including 204476 (2017) + serial number 204969 (2018).

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Spare parts list TR Comfortline

Autofill – Spare parts Esprit

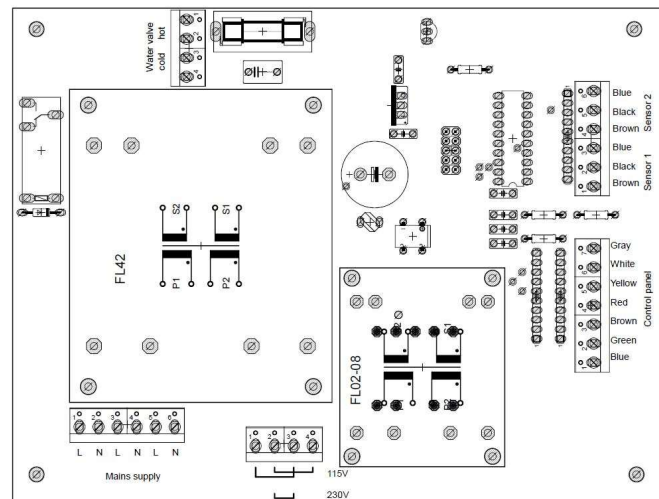
Position	Artikelnummer	Reservdel
72	851838-02	Control panel Esprit
73	851839	Circuit board
74	851838-03	Level sensor
75	851838-04	Solenoid valve 24VAC incl. coil
76	851838-05	Power cord with coil connector
77	Contact TR Equipment	Transformer 230VAC / 24VAC

If necessary, it is possible to replace circuit board 851839 and control panel 851838-02 with the new Engdata version.

Modify the 818357 enclosure, by removing the enclosure lid and sides, fasten the plastic plate with thick and double sided, tape. Also replace the control panel to 851907. Use existing level sensors and solenoid valves.



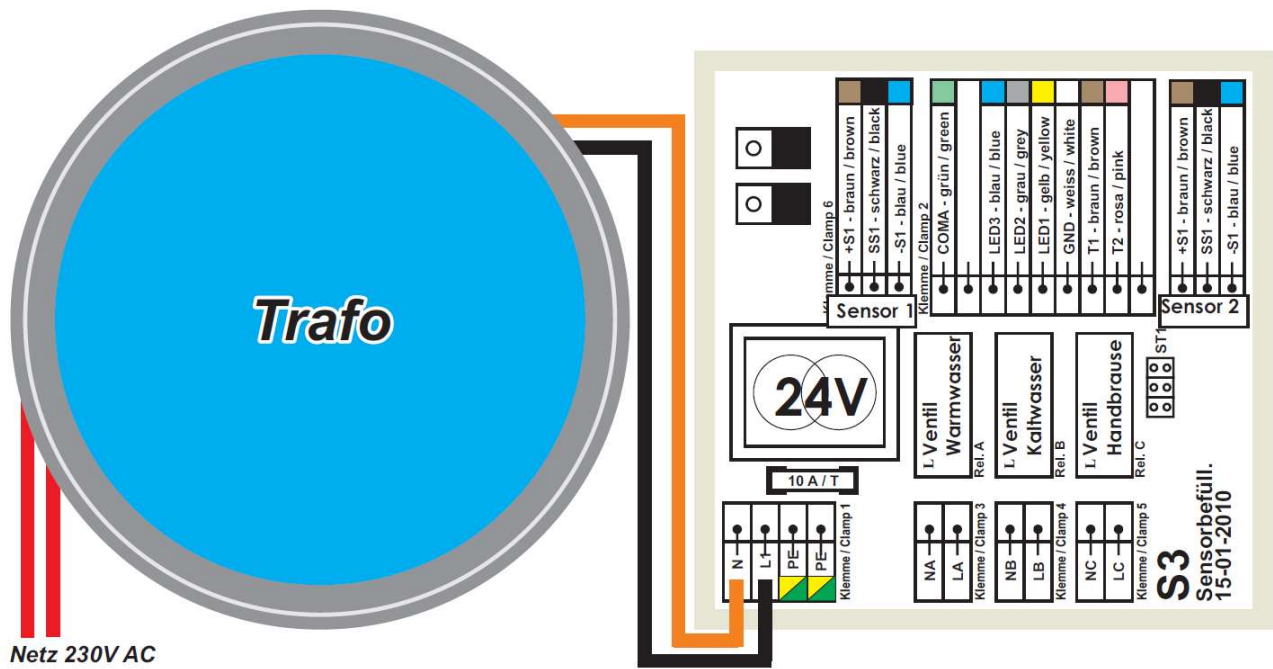
Use wiring diagram on page 18





Spare parts list TR Comfortline

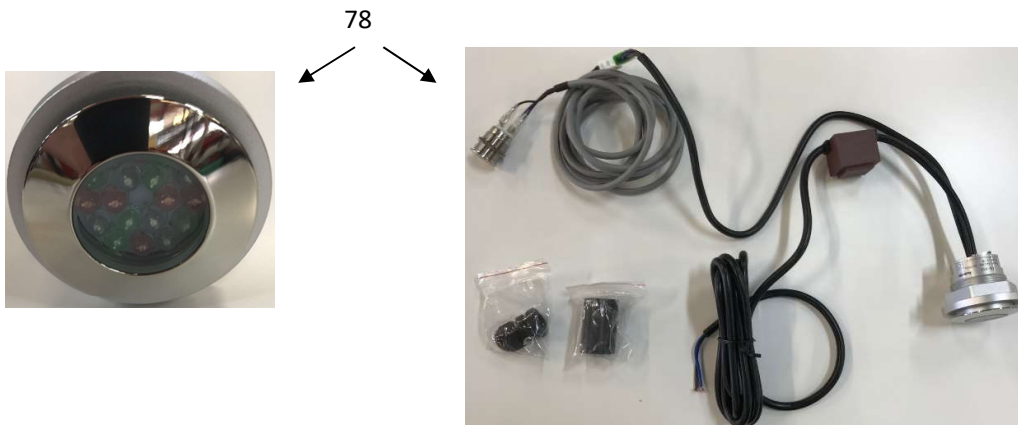
Autofill – Wiring diagram Esprit





Spare parts list TR Comfortline

LED light – Slimlite used on serial number 204610 (2018) onwards.

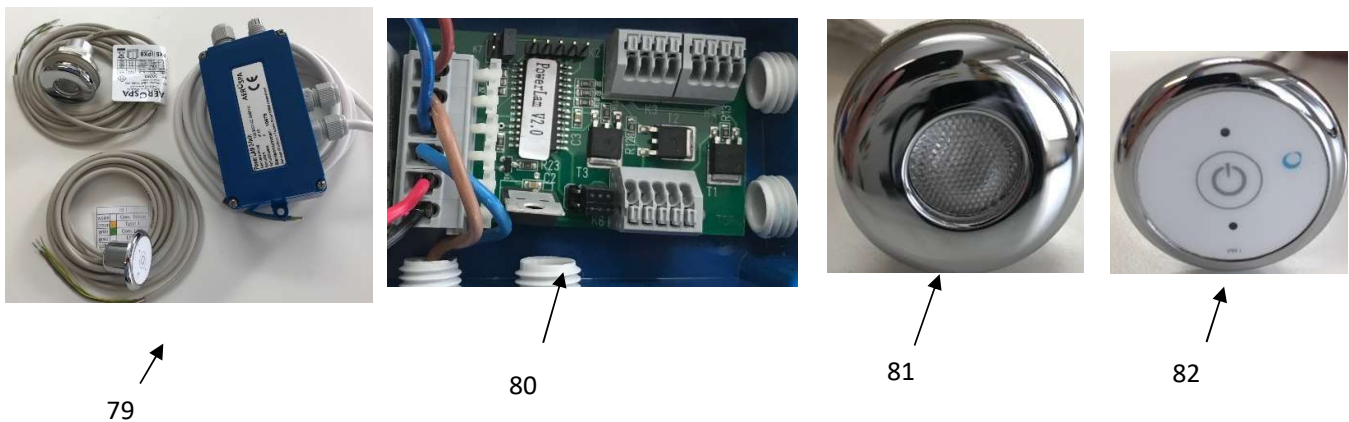


Position	Artikelnummer	Reservdel
78	851828-05	Complete unit LED spotlight incl. control button, transformer, cable gland, plastic cylinder & cables.

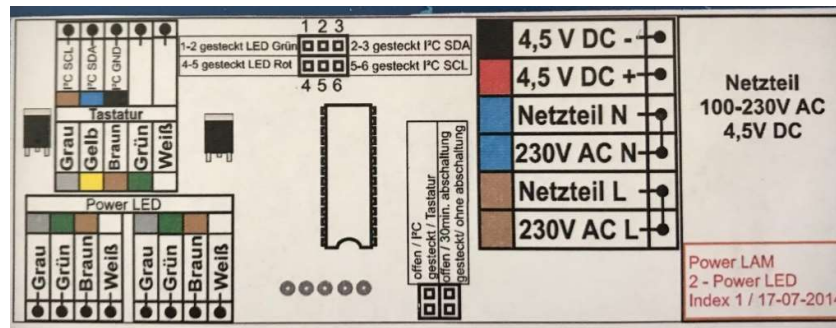


Spare parts list TR Comfortline

LED light – Aerospa used on serial numbers 203700 (2017) to and including 204580 (2018) + serial number 204840 (2018).



Wiring diagram LED light Aerospa

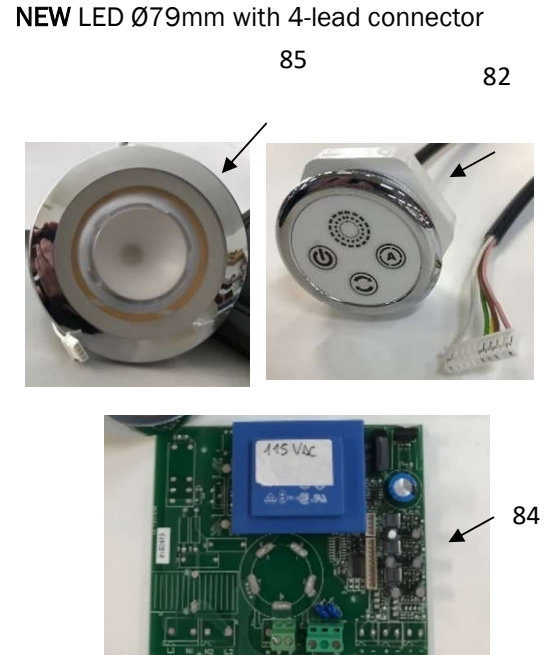
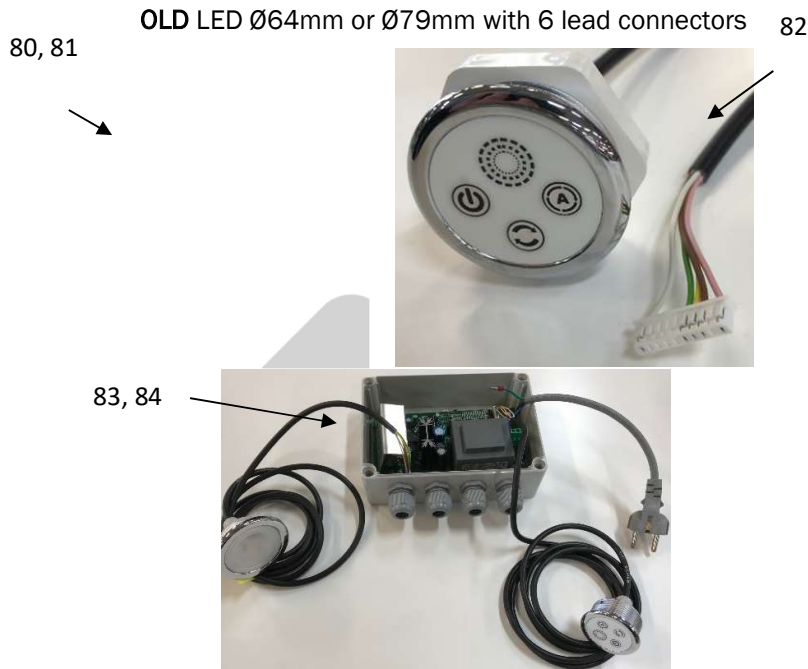


Position	Artikelnummer	Reservdel
79	851828-03	Complete set of LED spot, circuit board, transformer, enclosure and control panel.
80	Contact TR Equipment	LED Circuit board
81	Contact TR Equipment	LED Spotlight
82	Contact TR Equipment	LED Control panel



Spare parts list TR Comfortline

LED light – Matrex used on serial numbers 28117 (2010) to and including 203531 (2017) + serial numbers 203992 (2017) and 204969 (2018).



Position	Part number	Spare part
80	851830-02	OLD MATREX LED spotlight Ø64mm or Ø79mm. <u>6-lead connector:</u> Green, Yellow, White, Brown, Grey & Pink
81	851832	OLD Chromed ring Ø64mm (ring included in Ø79mm)
82	851830-03	Control panel LED (for 110/230V) Fits both OLD and NEW MATREX system.
83	851830-04	OLD, Circuit board LED 230V
84	851829	OLD, Circuit board LED 110V
85	851828-02	NEW MATREX LED Spotlight Ø79mm incl, chromed ring <u>4 lead connector:</u> (Leads Yellow, Green, Brown & White) incl chromed ring.
83	851830-03	Control panel LED (for 110/230V) Fits both OLD and NEW MATREX system.
84	No longer available	NEW, Circuit board 230V
84	Contact TR Equipment	NEW, Circuit board 110V



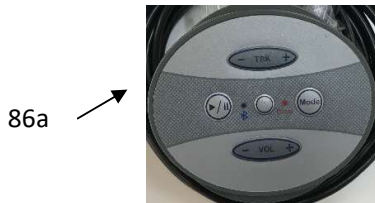
Spare parts list TR Comfortline

Bluetooth/AUX Music system – Polyplanar from serial number 1709-203870 onwards.



85

87



86a

86b



88

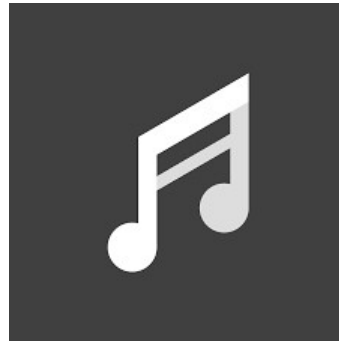


Position	Artikelnummer	Reservdel
85	851844	Complete set of Control display, amplifier and AUX connector.
86a	851844-02	Control display
86b	851845	AUX connector
87	819385	Transformer 100-240VAC/24VDC
88	819369	Speaker (tub equipped with 4pcs)



Spare parts list TR Comfortline

Bluetooth/AUX Music system – Aerospa used on serial number 203735, 20739, 203863, 203915, 203931, 204148 & 204840. All serial numbers from year 2017.

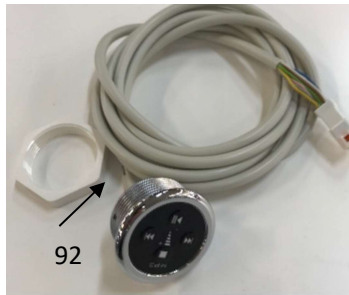
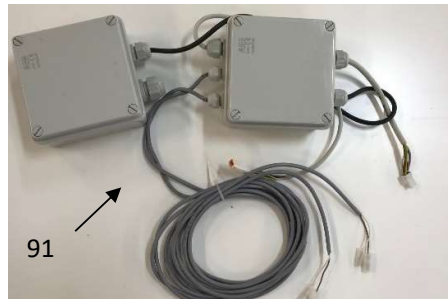


Position	Artikelnummer	Reservdel
	851843	Complete set circuit board, amplifier, speakers and AUX connector



Spare parts list TR Comfortline

Music system -Matrex from serial number 28117 (2010) to and including 203992 (2017) + serial number 204969 (2018)

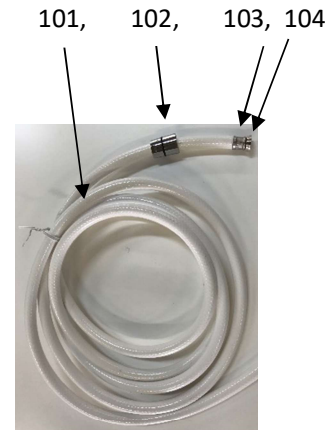
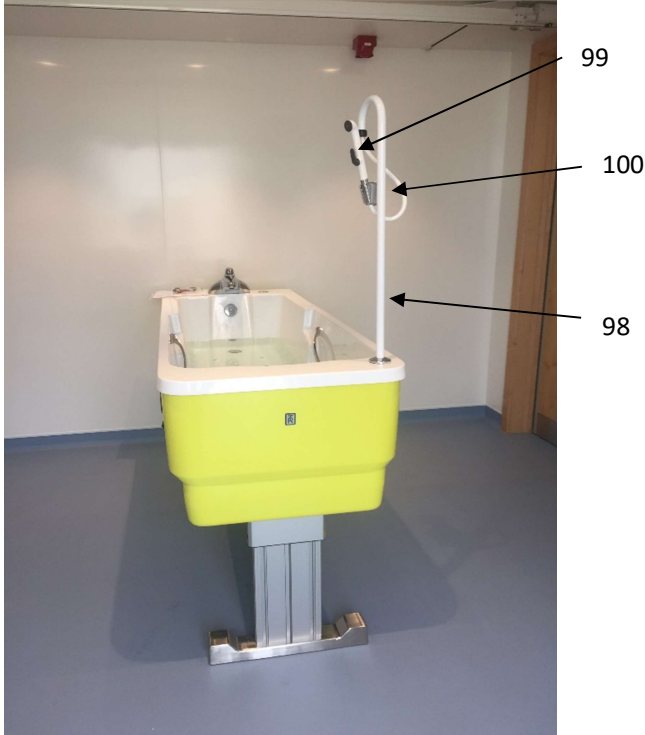


Position	Part number	Spare part
89	851834-02	Circuit board for old MP3-system
	851834-03	Control panel for old MP3-system
	No longer available	
90	851836	SD-card 512 MB with music for old MP3-system
91	851835-02	Circuit board set for new IP67 MP3-system
92	851835-03	Control panel for new IP67 MP3-system
93	851835-05	IP67 USB Cable for new MP3-system
94	851835-04	Excite speaker for new IP67 MP3-system
95	Contact TR Equipment	Cabling for speakers
96	851821	Chromed cover
97	851837	Chromed cover USB Memory stick with music 2GB



Spare parts list TR Comfortline

Sheperds Crook



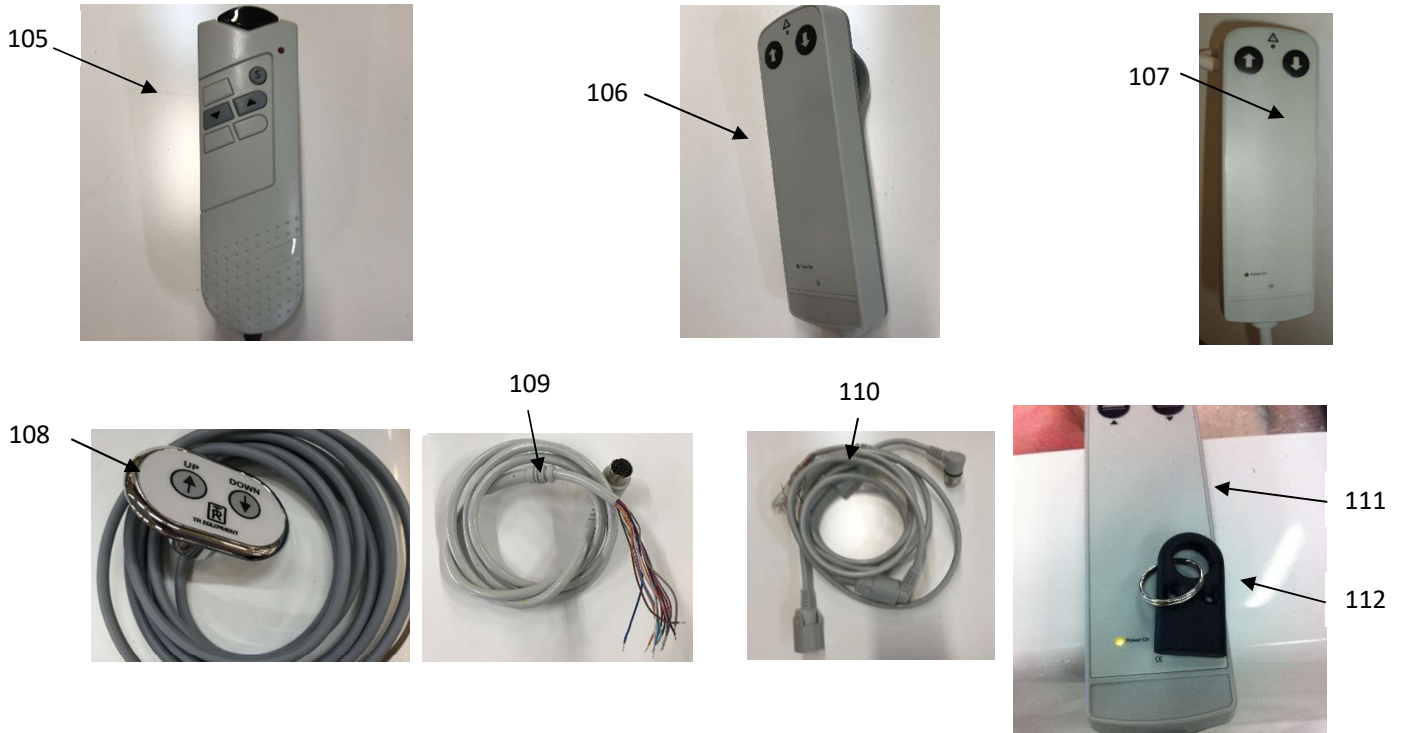
When ordering a hose for Sheperds Crook order 829094, -02, -03 & -04 for a complete hose

Position	Part number	Spare part
98	3331102	Sheperds crook
99	829169	Shower handle (trigger handle)
100	829172	Bracket for shower handle
101	829094	Shower hose L=3,45M
102	829094-02	Shower hose connector
103	829094-03	Shower hose nipple
104	829094-04	Shower hose bushing



Spare parts list TR Comfortline

Height adjustment

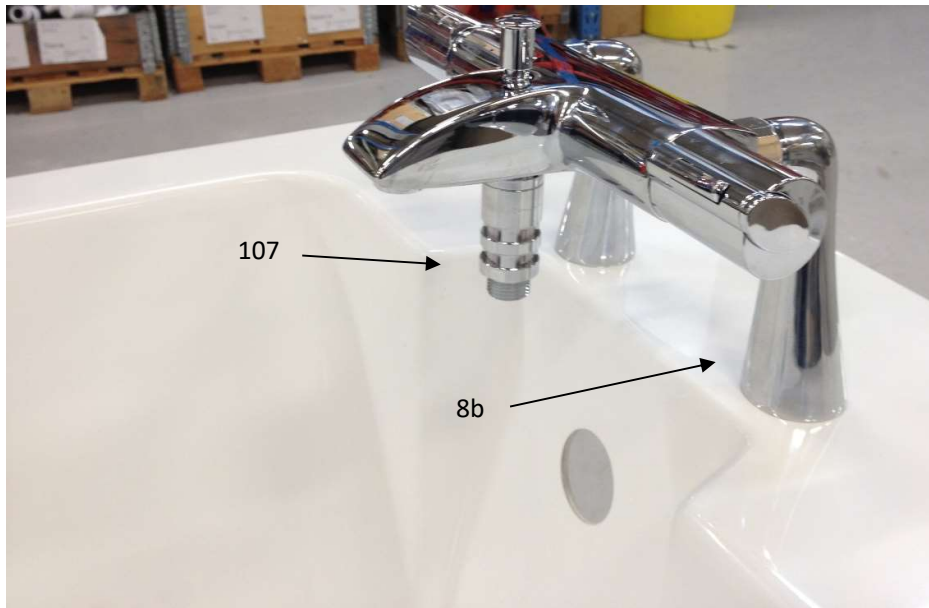


Position	Part number	Spare part
105	850999 - ES00920-1000015	Hand control Vibradorm system. ES00920-1000015.
106	851894	Hand control Dewert (Replaced by 851894-03)
107	851894-03	Hand control Dewert
108	851815	UP/DOWN control panel
109	851888	Cable for UP/DOWN control panel
110	851889	Y-Cable when using both UP/DOWN control panel and hand control.
111	851894-02	Lockable hand control
112	851894-04	Magnetic key



Spare parts list TR Comfortline

Backflow preventor between shower hose and mixer

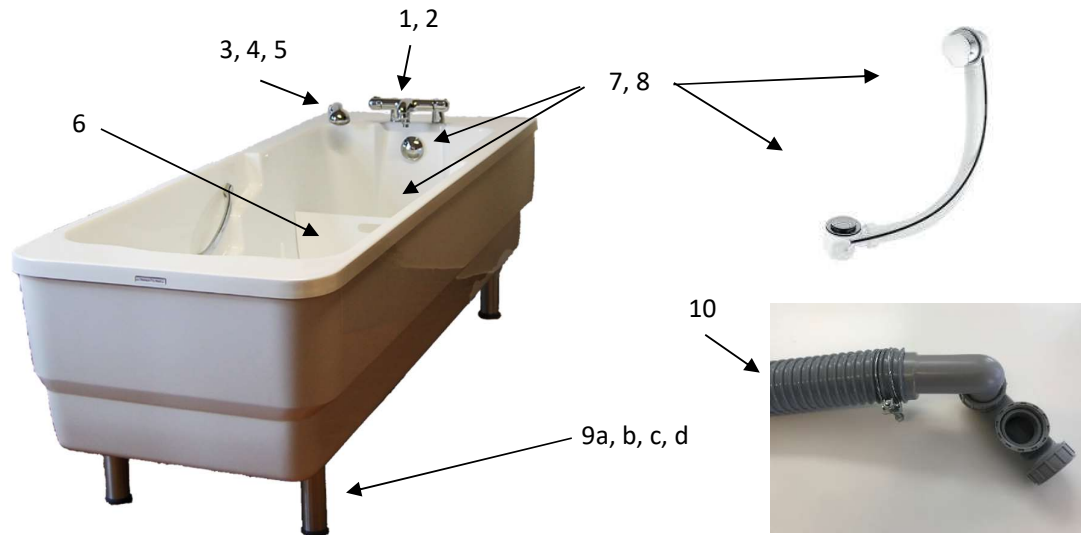


When using a backflow preventer between shower hose and mixer, long version of mixer feet is required.

Position	Part number	Spare part
113	851879	Backflow preventer
8b	851872-02	Mixer feet, long version: Needed when using FMM 9000E TMV2 mixer, FMM9000E Antibactus mixer and when using backflow preventer 851879 between shower hose and thermostatic mixer.



Spare parts list TR Ecoline



Position	Part number	Spare part
1	851883	Thermostatic mixer Grotherm 800
2a	851872	Mixer feet
2b	851872-02	Mixer feet, extra high
3	851868	Shower handle, chromed
4	829098	Shower hose, silver
5	829173	Bracket for shower handle, chromed
6	851861	Removable foot support
7	829280	Overflow drainage
8	829279	Drain plug
9a	852863	Bathtub leg 27cm (bathtub height 70cm)
9b	852863-02	Bathtub leg 32cm (bathtub height 75cm)
9c	852863-03	Bathtub leg 37cm (bathtub height 80cm)
9d	852863-04	Bathtub leg 42cm (bathtub height 85cm)
10	05104042	Bathtub drainage hose Ø50mm incl. water trap and hose



Service instructions TR Comfortline

How to replace a lifting column – New version from serial number 29285 (2011).

Lifting columns on the new version of the Comfortline bathtub are fastened with Black mounting plates and stabilizing bars.

New version of Comfortline bathtub



Black mounting plates and stabilizing bars on both sides of the lifting columns.

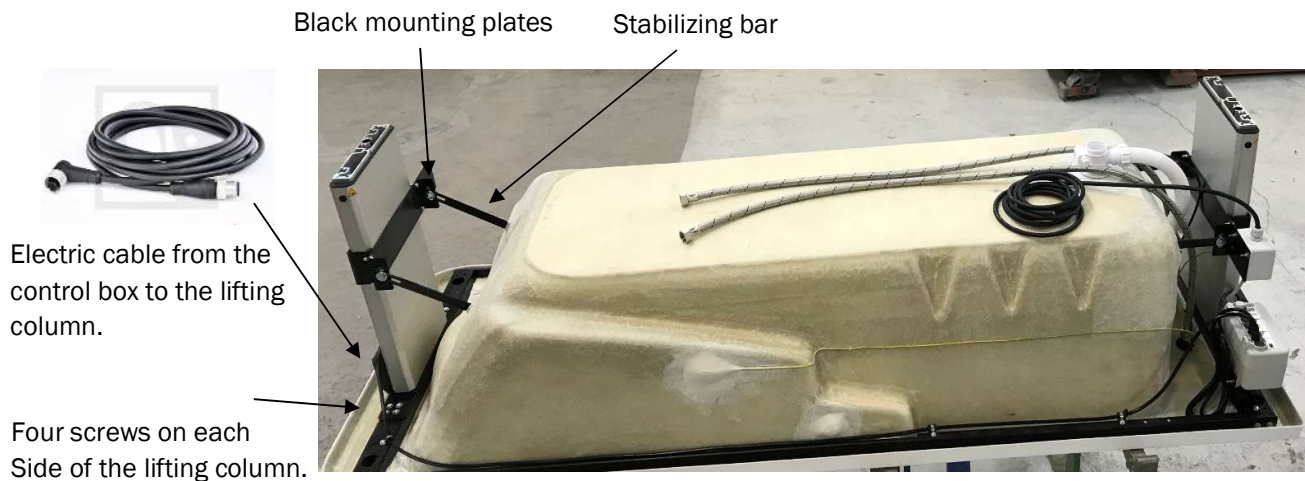


Service instructions TR Comfortline

How to replace a lifting column – New version

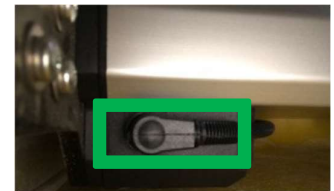
Two people are required to replace lifting columns.

To get a better view how lifting columns are mounted on the Comfortline bathtub the picture below show the Comfortline bathtub upside down and without skirt.



Lifting column replacement – New version:

- Unscrew the connector ring and disconnect the electric cable from the lifting column.
- Unscrew the Black mounting plates from the stabilizing bars.
- Unscrew the lifting column from the bathtub chassis (4 screws on each side of the lifting column).
- Remove the top bracket from the lifting column and mount it on the new lifting column.
- Unscrew the foot from the lifting column.
- Follow instructions above and assemble the new lifting column on the bathtub chassis in reversed order. Make sure the lifting column is mounted straight and not leaning.
- After the replacement, the lifting columns must be initialized/calibrated. See page 38, how to calibrate/initialize the lifting columns.



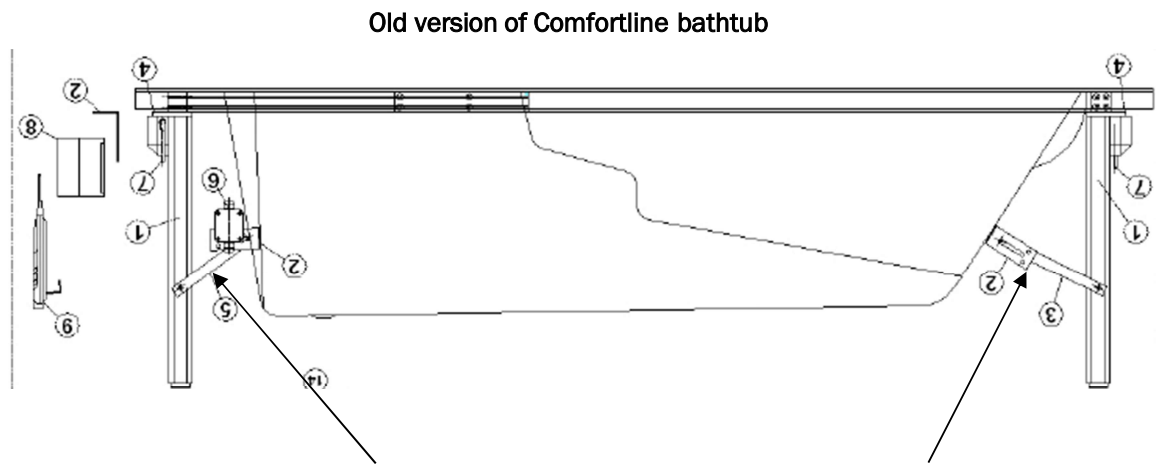


Service instructions TR Comfortline

How to replace a lifting column – Old version before serial number 29285 (2011).

Lifting columns on the old version of the Comfortline bathtub have no mounting brackets around the lifting columns. The lifting columns are fastened with stabilizing bars mounted onto the lifting columns.

A threaded M6 hole must be drilled and threaded on both sides of the lifting columns. Use a spiral tap with flat end for the M6 hole. See drawing on page 35.

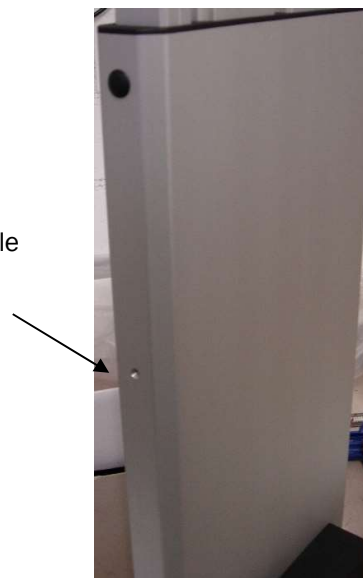


Stabilizing bars mounted directly on both sides of the lifting columns.

M6 spiral tap with flat end



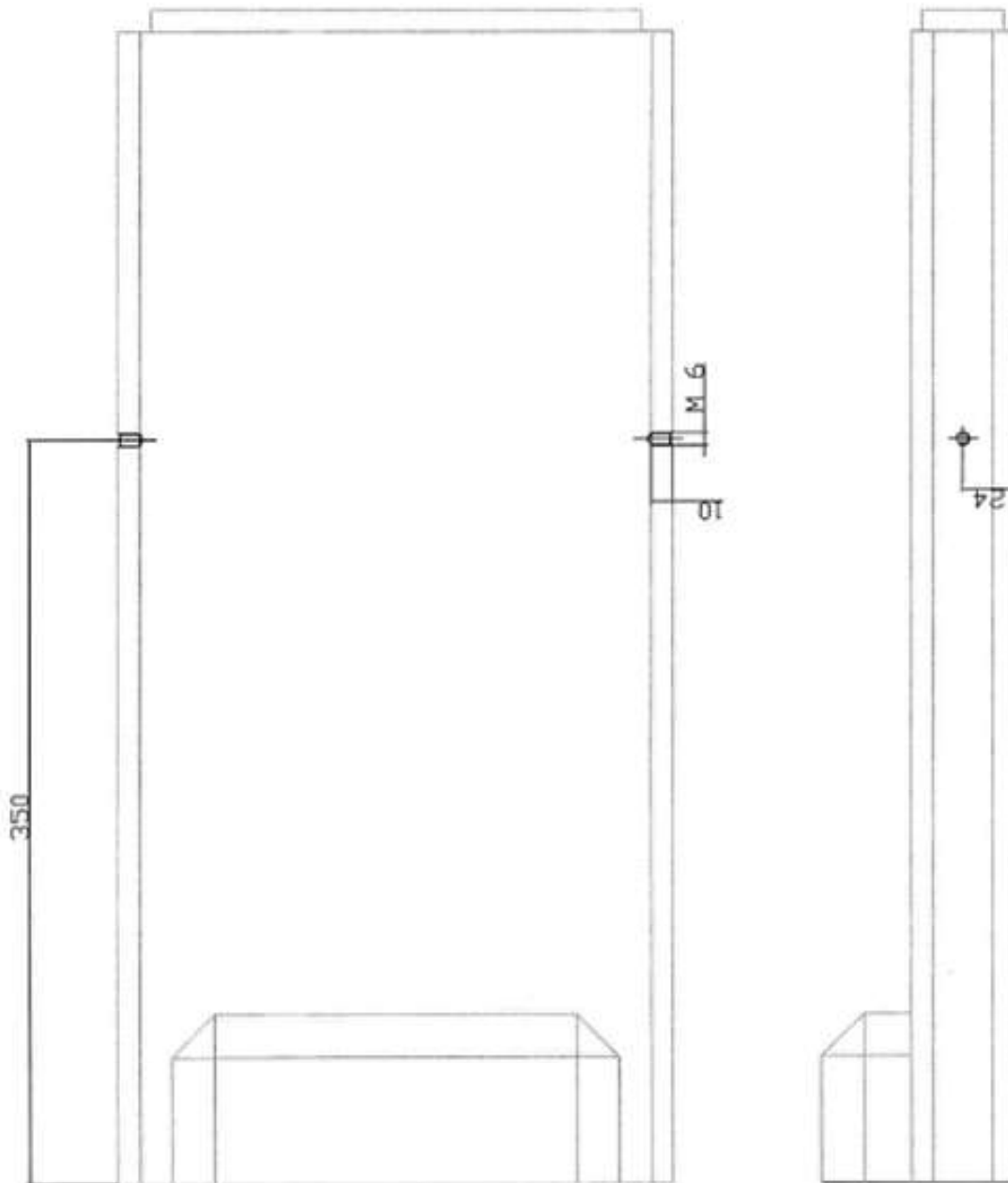
Threaded M6 hole
on lifting column.





Service instructions TR Comfortline

How to replace a lifting column – Old version

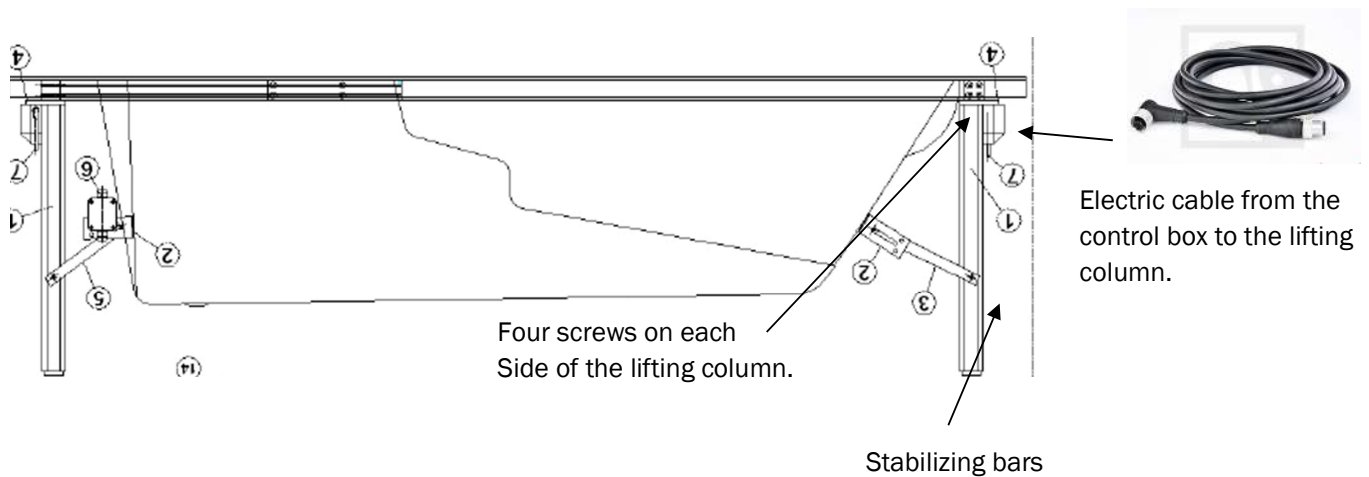




Service instructions TR Comfortline

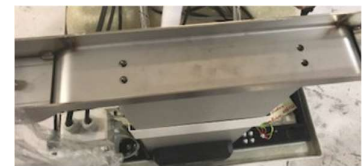
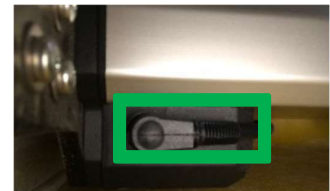
How to replace a lifting column – Old version

Two people are required to replace lifting columns.



Lifting column replacement – Old version:

- Unscrew the connector ring and disconnect the electric cable from the lifting column. →
- Unscrew the stabilizing bars from the lifting column.
- Unscrew the lifting column from the bathtub chassis (4 screws on each side of the lifting column).
- Remove the top bracket from the lifting column and mount it on the new lifting column. →
- Unscrew the foot from the lifting column. →
- Follow instructions above and assemble the new lifting column on the bathtub chassis in reversed order. Make sure the lifting column is mounted straight and not leaning.
- After the replacement, the lifting column must be initialized/calibrated. See page 38, how to calibrate/initialize the lifting columns.





Service instructions TR Comfortline

How to replace the control box

The control box is placed behind the service hatch at the tap end. The control box is fastened with two screw and nuts.



1. Unplug the power cord from the control box.



2. Loosen the bracket with a Torx key.



3. Unscrew screw and nut from the Left side of the control box. Use a Torx key and a spanner.



4. Turn the control box and unscrew screw and nut on the Right side.

Follow instructions above and assemble the new control box in reversed order.

After replacing the control box the lifting columns must be calibrated/initialized. See page 38, how to calibrate/initialize the lifting columns.



Service instructions TR Comfortline

How to calibrate/initialize the lifting columns

From July 2013:

Following calibration instruction is for bathtubs supplied from July 1st, 2013:

- Press the UP and DOWN button simultaneously on the hand control to calibrate the lifting columns.
- After approximately 10-12 seconds you will hear a “click sound” from the control box and after approximately 5 seconds more, you will hear an audible tone from the control box.
- Keep pressing the UP and DOWN button and the lifting columns will start to move to the highest position. At the highest position you will hear an audible tone and the system is ready to be used.

Note:

If the tub is not at the lowest position when you start to calibrate, the lifting columns will move to the lowest position first and then move to the highest position. Keep both the UP and DOWN button pressed during the calibration.



Before June 2013:

Old control box used until June 2013:

Please press the DOWN key on the hand control to initialize the lifting columns. When you reach the lowest position, keep the DOWN button pressed for 5-8 seconds. When an audible tone is heard the system is ready to be used.





Service instructions TR Comfortline

Air Spa - How to replace the Esprit 500 blower

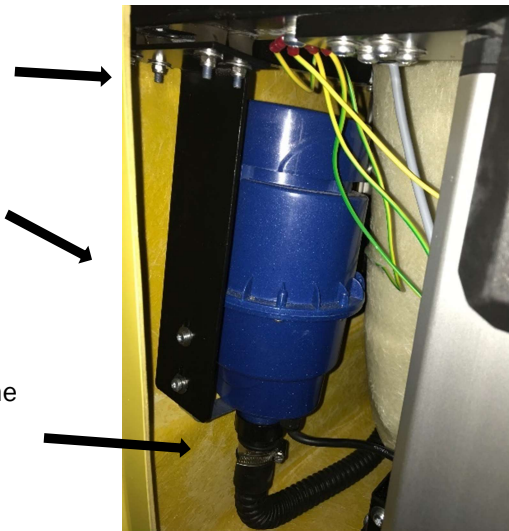
The Esprit 500 blower is located behind the service hatch at the tap end.

Before replacing the blower, disconnect the blower from the circuit board. The circuit board is in an enclosure underneath the tub.

Unscrew the blower bracket from the tub frame (loosen and remove nuts and washers)

Unscrew the blower from the bracket.

Disconnect the Black hose from the blower.



Follow instructions above in reversed order to assemble the new blower.

If the blower doesn't start, connect a pneumatic starter to the blower to activate the pneumatic switch inside the blower.





Service instructions TR Comfortline

Air Spa - How to replace the Vento Blower

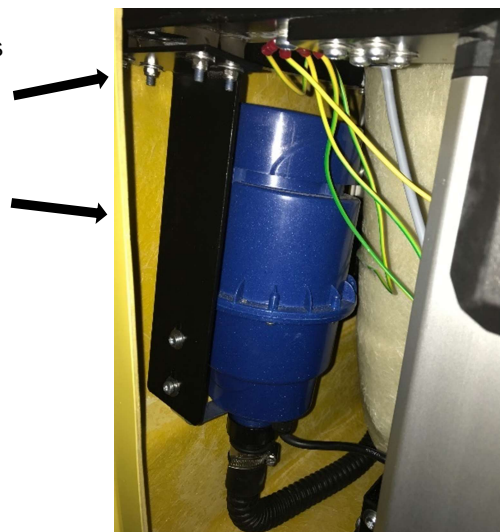
The Vento blower is located behind the service hatch at the tap end.

The Vento blower is no longer available, but it is possible to install the Esprit 500 blower instead. See page 14 for parts needed.

- Disconnect the blower from the circuit board in the enclosure underneath the tub.
- Unscrew the blower bracket from the tub frame (4 screws).



- Fasten the bracket dampers to the nuts in the tub frame.
- Assemble the Esprit 500 blower on the blower bracket.
- Assemble blower and bracket to the dampers and fasten it.
- Connect the blower to the circuit board.



Pneumatic starter

If the blower doesn't start, connect a pneumatic starter and press it to start the blower to activate the pneumatic switch inside the blower.

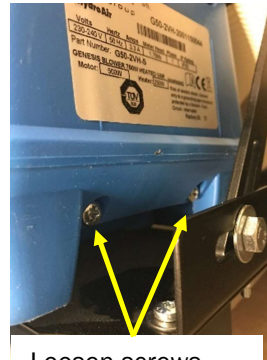


Service instructions TR Comfortline

Air Spa - How to replace the Genesis blower

The Genesis blower is located underneath the tub at the head end.

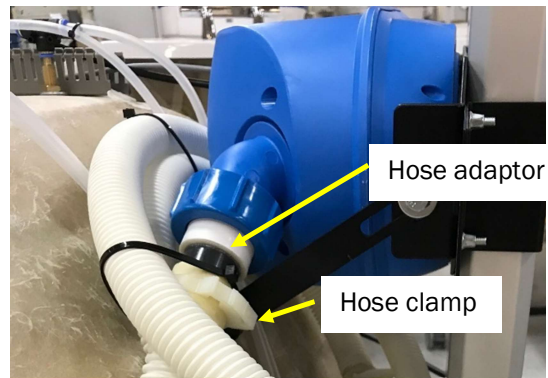
- Disconnect the blower power cord from the mains supply on the tub.
- Remove the cable from the wire duct.
- Loosen the hose clamp and remove the blower hose from the blower.
- Remove the hose adaptor from the blower and assemble it on the new blower.
- Loosen the rear screws and remove the blower from blue foot.
- Disconnect the Air Spa control panel from the blower under the blue lid.
- Put the new blower on the blue foot and fasten the rear screws. Make sure the filter is fitted properly.
- Follow instructions above in reversed order to assemble and install the new blower.



Loosen screws

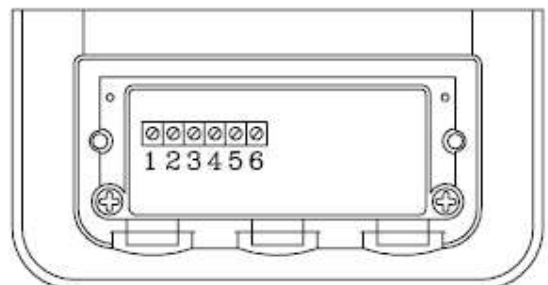


Wire duct



Hose adaptor

Hose clamp



- | | |
|-------------------|--------|
| 1. Blower on/off | Grey |
| 2. Massage mode | Black |
| 3. Variable speed | Blue |
| 4. LED on/off | Yellow |
| 5. N/A | N/A |
| 6. +5V return | Red |



Service instructions TR Comfortline

Autofill - How to replace a solenoid valve

The solenoid valves are located behind the service hatch and lifting column at the tap end of the tub.

To replace a solenoid valve, we recommend that the lifting column is removed. Two people are required when replacing a solenoid valve.

- Lower the bathtub to the lowest position.
- Remove the service hatch at the tap end of the bathtub.
- Unscrew the 4+4 screws placed on both sides of the lifting column (Green arrows).
- Loosen the mounting plates around the lifting column (Orange arrows).
- Lift the bathtub at the tap end until the solenoid valves are visible.
- Unscrew and disconnect the solenoid coil from the valve (Yellow arrow)
- Unscrew the 4 screws (Black arrows) on the solenoid valves and carefully split the solenoid into 2 pcs.
- Unscrew the solenoid valve from the mixer foot.
- Follow instructions above in reversed order when assembling the new solenoid valve.





Service instructions TR Comfortline

Autofill - How to retrofit the Esprit system with the Engdata system

The enclosure for the Esprit Autofill system is located underneath the tub. Disconnect the power to the tub and unscrew the enclosure lid.

Unscrew the Esprit circuit board and transformer from the enclosure.

Carefully peel off the control panel from the tub.



Esprit Circuit board

Esprit transformer

Esprit control panel

- Remove the sides of the enclosure (Part.no: 200113) with a jigsaw or similar. Leave the bottom plate.



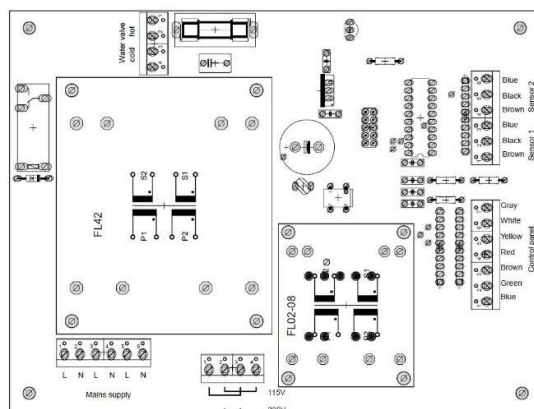
- Put thick double-sided tape on the bottom plate and fasten it in the enclosure underneath the tub.

- Put the new control panel on the tub. Use double-sided tape.



- Connect power cord, solenoid valves, sensors and the new control panel to the Engdata circuit board.

- Use wiring diagram on page 18.





Routine maintenance TR Comfortline



- Iodine, Bromine and Methylene blue might discolor the bathtub.
- Mechanical parts inside the tub are maintenance free.

Before every use

Visual inspection:

- Make sure that the bathtub stands securely on the floor.
- Make sure that the tub is in its lowest position.
- Make sure that the tub is in level when raising and lowering the tub.
- Make sure there are no nicks or cracks on the tub which may scratch the patient.
- Make sure that all electrical cords are in good condition and without damages.
- Make sure that the connecting- and shower hoses do not leak.
- Check the water temperature by hand or with a bath thermometer.



Always check the water temperature by hand or a bath thermometer **before** the patient gets into the bath. The Grotherm 800 thermostatic mixer is pre-set to approximately 43°C under ideal conditions at the factory.

Daily maintenance

- Clean the tub after every use. Avoid abrasive cleaners which may scratch the surface of the tub and side covers.
- Lower the tub to its lowest position after every use and make sure all valves are closed.
- Clean the strainers on the shower handle by rubbing it with your thumb.



If your Comfortline II is equipped with a cleaning system:

Make sure there is cleaning liquid in the cleaning container.
Clean the strainers on the cleaning shower handle by rubbing it with your thumb.





Routine maintenance TR Comfortline

Monthly maintenance:

- Monthly maintenance must be performed by On-site engineer or trained staff.
- Repeat Before every use and Daily maintenance.
- Make sure that the supply hoses for Hot- and Cold water are fitted correctly and do not leak.
- Make sure that the power cord is in good condition and has no damages.

Thermostatic mixer:

- Exercise the mixer by moving the temperature control rapidly from cold to hot and hot back to cold several times pausing at extreme.

- For maintenance of the thermostatic mixer, read manual from the supplier of the thermostatic mixer (manual enclosed at delivery).

- If the bathtub is used in an area with hard water, ensure that the mixer cartridge and strainers are clean. See instructions in the manual from the manufacturer of the thermostatic mixer (manual supplied at delivery). This must be done by a qualified person.

- If you have a FMM9000E Antibactus thermostatic mixer, also read manual from the manufacturer how to flush it and restore it correctly (manual enclosed at delivery).

- Contact your TR Equipment representative if you need new manuals.



Warning

Scalding risk when flushing with hot water!



Warning

Shower hoses on the TR Comfortline bathtub manage 60°C /140°F for 10 minutes.



Warning

Maintenance and/or repairs may only be carried out by the manufacturer or qualified staff authorized by the manufacturer. Otherwise warranty expires immediately.



Routine maintenance TR Comfortline

Annual maintenance

Maintenance and Service manual including check list is available. Contact TR Equipment for an updated manual

Annual maintenance and inspection must be performed by a qualified technician according to local regulations.

- Repeat **Before every use, Daily maintenance, and Monthly maintenance.**
- Inspection of the electrical installation, power cord, earth cables and equipment must be performed by a qualified electrician.
- Inspection of the plumbing installation, flexible connection hoses, shower hoses, pipe interrupters, check valves (supplied by the installer) etc. must be performed by a qualified plumber.
- Make a scalding test by shutting OFF the cold water. The thermostatic mixer shall shut OFF if only HOT water is supplied.
If it doesn't shut OFF the mixer or cartridge must be replaced.
- There should be an annual inspection of the electrical installation and of the devices according to local requirements.

TR Comfortline, height adjustable bathtub:

- Initialize/calibrate the lifting columns according to the instructions described in the Operating manual. See **Initializing** in the table of content.
- If your Comfortline II is equipped with cleaning system check the OPEN/CLOSE valve to see if it open and close the valve properly. Replace valve stem if necessary.



Warning

Scalding risk when flushing with hot water!



Warning

Shower hoses on the TR Comfortline bathtub manage 60°C /140°F for 10 minutes.



Warning

Maintenance and/or repairs may only be carried out by the manufacturer or qualified staff authorized by the manufacturer. Otherwise warranty expires immediately.



Routine maintenance TR Comfortline

Replacement of parts

Every 3 years:

- Replace the Silver colored shower hose
- Replace shower handle
- Replace the flexible connecting hoses for hot and cold water

If bathtub is equipped with cleaning system (TR Comfortline, height adjustable bathtub):

- Replace the yellow cleaning shower hose and shower handle.
- Replace the valve stem on the Open and close valve.

Every 5 years:

- TR Equipment recommends replacement of the thermostatic mixer.



In healthcare applications such as hospitals, aged person facilities, residential care homes, etc. and in any other applications where the user is similarly at risk, irrespective of supply and usage conditions or the evidence of in-service tests, the critical components must be replaced at intervals of no more than 5 years.

Every 12 years

- Replace lifting columns, control box and hand control (TR Comfortline, height adjustable bathtub).

Warranty:

- Maintenance and/or repairs may only be carried out by the manufacturer or qualified staff authorized by the manufacturer, otherwise warranty expires immediately.
- If the thermostatic mixer is supplied by TR Equipment, it's covered by warranty **but** problems related to the quality of the water is not covered by the warranty from TR Equipment.



Routine maintenance TR Comfortline

Annual maintenance and inspection:

- Annual maintenance and inspection must be performed by Qualified staff authorized by the manufacturer together with qualified electrician and plumber.
- Repeat **Before every use, Daily maintenance** and **Monthly maintenance**.
- Inspection of the electrical installation, power cord, earth cables and equipment must be performed by a qualified electrician.
- Inspection of the plumbing installation, flexible connection hoses, shower hoses, pipe interrupters, check valves (supplied by the installer) etc. must be performed by a qualified plumber.
- Initialize/calibrate the lifting columns according to the instructions described in the Operating manual. See **Initializing** in the table of content.
- Make a scalding test by shutting OFF the cold-water supply. The thermostatic mixer shall shut OFF if only HOT water is supplied.
If it doesn't shut OFF the mixer or cartridge must be replaced.
- There should be an annual inspection of the electrical installation and of the devices according to local requirements.

Cleaning function:

- If your Comfortline II is equipped with the cleaning function perform a function test. Start the cleaning function by turning the key on the tub side counterclockwise and make sure that cleaning detergent and water is mixed properly. Turn the key on the tub side Clockwise to turn it OFF.
- Verify that the check valve works OK.



Warning:

Never use the cleaning system on patients, ONLY on the equipment.



Routine maintenance TR Comfortline

Annual maintenance and inspection:

Air Spa:

- If your Comfortline II is equipped with an Air Spa perform a function test according to the instructions in the Operating manual.
- Make sure that it works properly and that the dry blowing function works after use.
The dry blowing function starts 15-30 minutes after use of Air Spa depending on which Air Spa solution the tub is equipped with. The dry blowing function runs for approximately 2 minutes.
- See table of content in the Operating manual and read the Air Spa chapter to see which Air Spa your Comfortline II are equipped with, how it works and how to clean it.
- If your Comfortline is equipped with the Esprit Air Spa make sure that the Air jet valves are in correct position. See Operating manual for correct position.

Autofill:

- If your Comfortline II is equipped with an Autofill function perform a function test according to the instructions in the Operating manual. See table of content in the Operating manual and read the Autofill chapter to see which Autofill solution your Comfortline II is equipped with and how it works.

LED color light system:

If your Comfortline II is equipped with a LED color light system perform a function test according to the instructions in the Operating manual. See table of content and read the LED color light system chapter to see which LED color light system your Comfortline II is equipped with and how it works.

Music (MP3, Bluetooth and AUX):

If your Comfortline II is equipped with a Music system perform a function test according to the instructions in the Operating manual. See table of content and read the Music system chapter to see which Music system your Comfortline II is equipped with and how it works.



Routine maintenance TR Comfortline

Check list

Annual maintenance Comfortline II

Visual control		
Does the bathtub stand securely on the floor? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Is the bathtub in the lowest position before use? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Are there any visible damages on the bathtub that might hurt the patient? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Is the bathtub properly cleaned? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:



Routine maintenance TR Comfortline

Electrical connections

Inspect the electrical installation and the equipment according to local requirements. Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Is the power cord in good condition and without damages? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Is the power cord properly installed? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:

Plumbing connections

Are the connecting hoses for Hot and Cold water correctly fitted and without any leakage? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Is the drainage hose properly fitted, without leakage and damages? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:

Also inspect check valves on connecting hoses for Hot and Cold water (Supplied by the installer).



Routine maintenance TR Comfortline

Function control of Lifting columns, Thermostatic mixer and drainage

<p>Initialize/calibrate the lifting columns according to instructions in the Operating manual.</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>	<p>Comment:</p>	<p>Action:</p>
<p>Is it possible to raise and lower the bathtub with the hand control?</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>	<p>Comment:</p>	<p>Action:</p>
<p>Exercise the Thermostatic mixer, supply the coldest mixer temperature for 30 seconds and the hottest mixer temperature (Max 43°) for 30 seconds. Is the function OK?</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>	<p>Comment:</p>	<p>Action:</p>
<p>Does the safety stop for 38° C and Maximum 43° C work OK?</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>	<p>Comment:</p>	<p>Action:</p>
<p>Perform a scalding test, Shut OFF the Cold-water supply to the tub. The mixer shall shut OFF when only Hot water is supplied.</p> <p>Scalding function working?</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>	<p>Comment:</p>	<p>Action:</p>

If the mixer doesn't shut OFF when only HOT water is supplied, the mixer or cartridge MUST BE REPLACED!



Routine maintenance TR Comfortline

Function control of Lifting columns, Thermostatic mixer and drainage

Does the switch for the shower function work OK? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
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Also read the manual from the supplier of the Thermostatic mixer if additional controls need to be performed. Manual supplied at delivery.

Possible to Open and Close the drainage plug? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Are the strainers on the shower handle properly cleaned? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Is the shower hose in good condition and without damages? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:



Routine maintenance TR Comfortline

Function control, Cleaning system
--

Is the bathtub equipped with this option? Yes No

Is the liquid container filled with cleaning detergent? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Is it possible to Open and Close the Cleaning function? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Any leakage from the cleaning unit? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Is the hose between the liquid container and the cleaning unit in good condition and without damages? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Are cleaning liquid and water properly mixed? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Is the Yellow Cleaning shower hose in good condition and without damages? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Are the strainers on the cleaning handle properly cleaned? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:



Routine maintenance TR Comfortline

Function control Air Spa

Is the bathtub equipped with this option? Yes No

Possible to turn the Air Spa ON and OFF? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Does the Dry blowing function/purge work? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Any leakage from Air jet, coupling or air hoses? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Are the valves in the Air jets in correct position? (If you have Air Spa Esprit 500) Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:



Routine maintenance TR Comfortline

Function control Autofill

Bathtub equipped with this option? Yes No

Possible to start the Autofill function? (Mixer must be fully open) Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Does the Autofill function shut off when it reaches the first and second level? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Does the shower function work OK? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:

Function control LED Light

Bathtub equipped with this option? Yes No

Is it possible to start the LED Light? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Is it possible to switch color? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Does the Multi color mode work OK? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:



Routine maintenance TR Comfortline

Function control Music system

Bathtub equipped with this option? Yes No

Possible to start the Music system and to turn it OFF? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Does the Bluetooth connection work? (Can only be connected to one unit at the time) Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Does the AUX connection work? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:
Are all speakers working? Yes <input type="checkbox"/> No <input type="checkbox"/>	Comment:	Action:

Company / Person:

Serial number:

Maintenance date:

Signature: