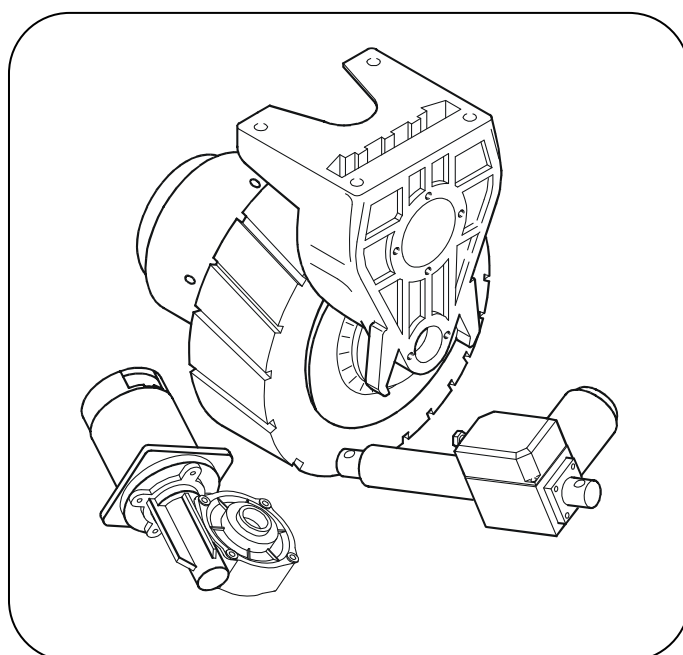




Technical Bulletin

N° 06

Doc. 10020673

MACHINE MODEL	PAG.
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Written by:
Albi eng Marco

All the informations included in this document are confidential and cannot be divulged without an expressed FIMAP agreement.

Technical Service

28 settembre 2009

Machine: Mx - SMx
Since the serial number: --
Date: 01 April 2009
Subject: Squeegee cable

The squeegee lifting cable has been replaced by a new type one with a bigger number of wires (49) increasing the flexibility and the strenght of the cable. To not stress it in torsion way it is fixed to the spring using a rounded nut instead of the washer used before. The new cable can be recognized because it uses a rubber protection with dark color instead of the glassy one used by the old cable.

REMOVE	
CODE	DESCRIPTION
409156	Washer 6x12x1,6
426374	Squeegee cable

ADD	
CODE	DESCRIPTION
409082	Nut M6x6 self locking
426374	Squeegee cable



Previous solution with washer



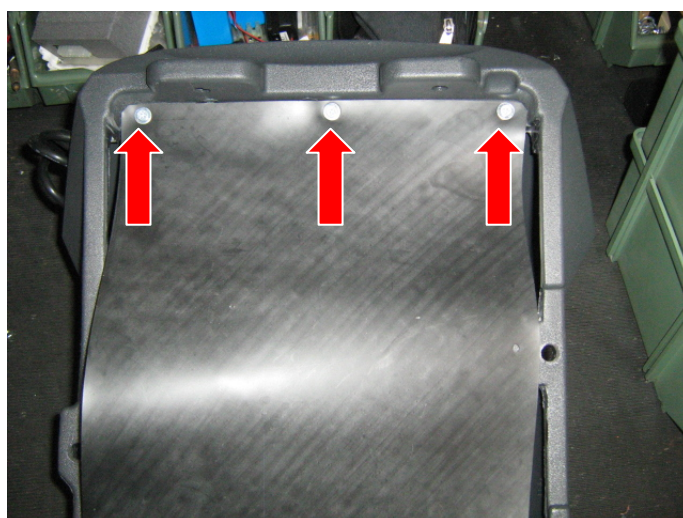
Actual solution with nut

The modification can be performed on the machine produced before the date indicated.

Machine: MMx
Since the serial number: 209007401
From: 03/09/2009
Subject: Protezione impianto elettrico

To increase the water protection, while the machine is cleaned, of the electric installation, we installed a protection made in rubber directly connected to the plastic of the handle.

ADD		
Q.TY	CODE	DECRPTION
1	424630	Rubber protection
3	408954	Screw 4.2X16
3	409156	Washer 6X12X1,6



Protezione in lubritene fissata al corpo manubrio

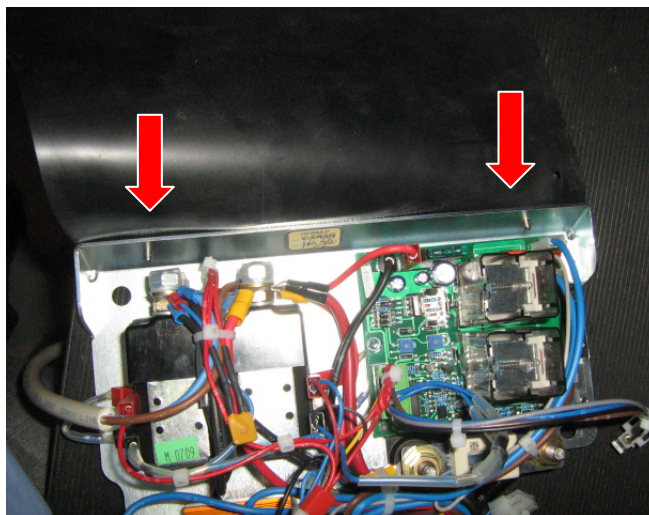
The modification can be applied on machine produced before the date indicated.

Machine: Mx
Since the serial number: 209007401
From: 03/09/2009
Subject: Electric installation protection

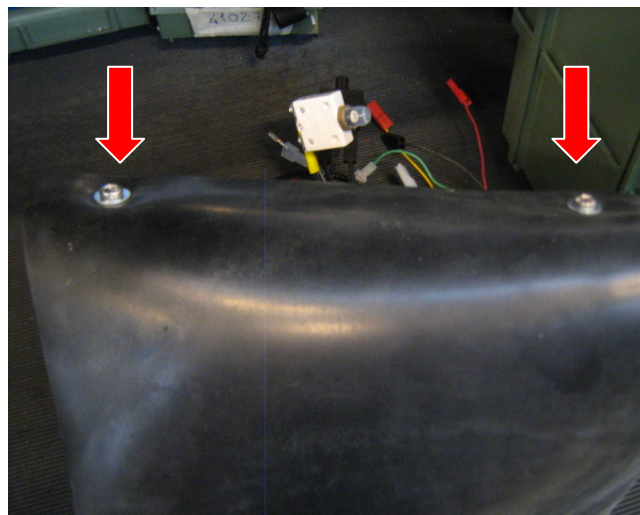
To increase the water protection, while the machine is cleaned, of the electric installation, we installed a protection made in rubber directly connected to the electric panel.

REMOVE		
Q.TY	CODE	DESCRIPTION
1	216262	Electric panel

ADD		
Q.TY	CODE	DESCRIPTION
1	216262	Electric panel (ver AC)
1	424630	Rubber protection
2	415793	Screw M4X12
2	409156	Washer 6X12X1,6



Electric installation with fixing screws



Protection rubber with screws

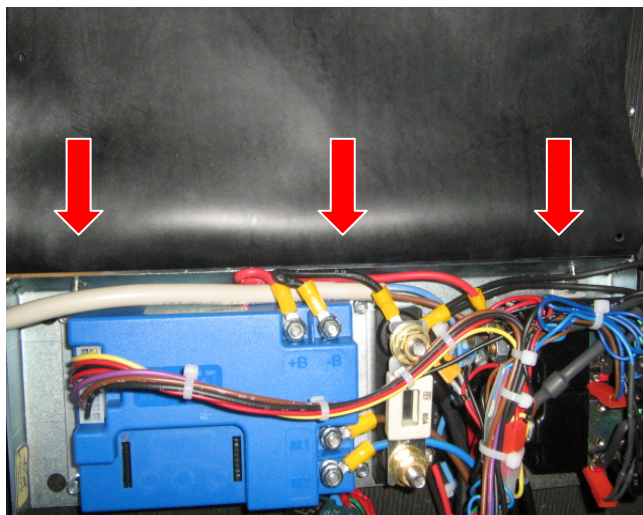
This modification can be applied on machines produced before the date indicated.

Machine: SMx
Since the serial number: 209007401
From: 03/09/2009
Subject: Electric installation protection

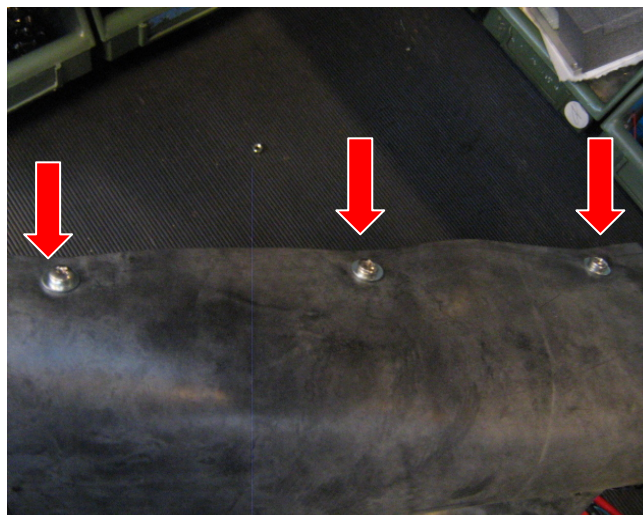
To increase the water protection, while the machine is cleaned, of the electric installation, we installed a protection made in rubber directly connected to the electric panel.

REMOVE		
Q.TY	CODE	DESCRIPTION
1	216262	Electric panel

ADD		
Q.TY	CODE	DESCRIPTION
1	216262	Electric panel (ver AC)
1	424630	Rubber protection
3	415793	Screw M4X12
3	409156	Washer 6X12X1,6



Electric installation with fixing screws



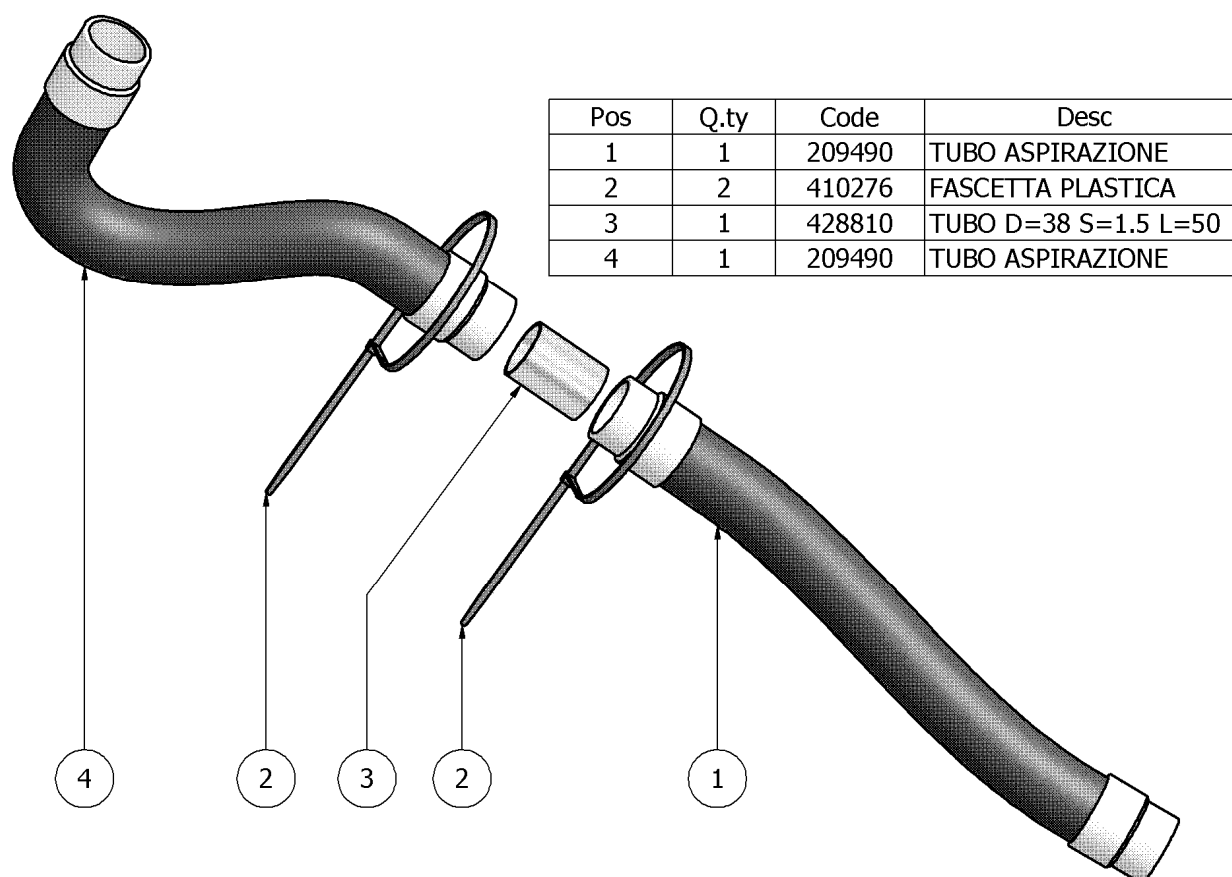
Protection rubber with screws

The modification can be applied on machines produced before the indicated date.

Machine: MMx – Mx - SMx
Since the serial number: 209007401
From: 03/09/2009
Subject: Suction hose in two parts

To let the cleaning and replacing be easier the suction hose has been replaced with a kit that includes two “half hoses” and the connection between them.

ADD		
QTY	CODE	DESCRIPTION
2	209490	Suction Hose DIAM.38X540
2	410276	Plastic Wrapper 4.5X360
1	428810	Hose D=38 S=1.5 L=50 AISI 304

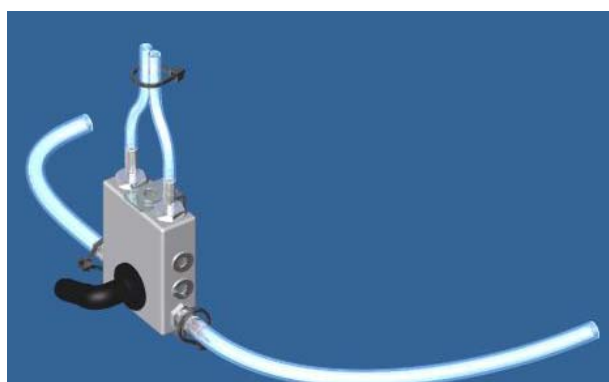


The modification can be applied on machine produced before the date indicated.

Machine: Mx BT - Mx BT CB - SMx BT - SMx BT CB
Since the serial number: 209007132
From: 20/07/2009
Subject: Distributor on double brush machine

To let the water flow be uniform on both brushes also in very low water quantity, we installed on all the machines of the Mx family a distributor that perform this feature. We also put the solenoid valve in the bypass circuit so in emergency case as well the water stops when the brush motor's not working.

ADD		
Q.tà	Codice	Descrizione
1	202202	Glassy hose
1	202209	Glassy hose
2	213251	Glassy hose
1	217555	Distributor support
1	400667	Nylon washer
5	410274	Plastic wrapper
1	410349	Elbow
2	410393	Connector
1	418158	Plug 3/8"
2	422186	Connector 1/4"
4	425817	Plug 1/4"
1	428247	Brush deck water distributor



Kit distributore

The modification can be applied on machines produced before the date indicated.

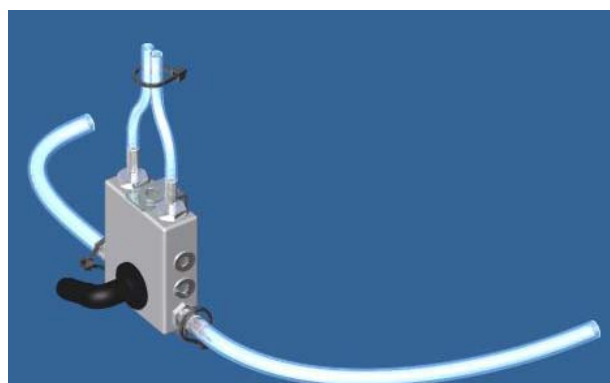
Machine: Mx BT DS - Mx BT CB DS - SMx BT DS - SMx BT CB DS
Since the serial number: 209007132
From: 20/07/2009
Subject: Distributor on double brush machine

To let the water flow be uniform on both brushes also in very low water quantity, we installed on all the machines of the Mx family a distributor that perform this feature. We also put the solenoid valve in the bypass circuit so in emergency case as well the water stops when the brush motor's not working.

AGGIUNGERE		
Q.tà	Codice	Descrizione
1	202202	Glassy hose
1	202209	Glassy hose
2	213251	Glassy hose
1	217555	Distributor support
1	400667	Nylon washer
5	410274	Plastic wrapper
1	410349	Elbow
2	410393	Connector
1	418158	Plug 3/8"
2	422186	Connector 1/4"
4	425817	plug 1/4"
1	428247	Water distributor
1	213860	Glassy hose reinforced
1	217766	Proportional valve support
1	217971	Detergent glassy hose
4	410292	Wrapper
1	410431	Nipple



Kit Bypass



Kit Distributor

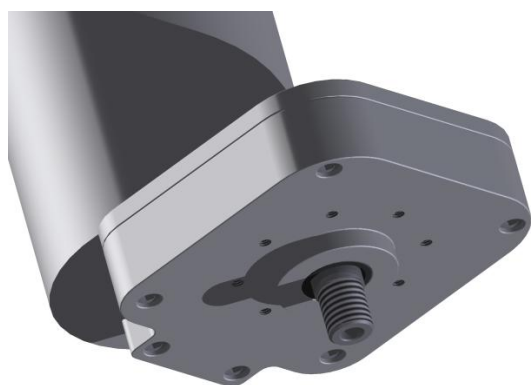
The modification can be applied on machines produced before the date indicated.

Machine: MMx 43E/50E
Since the s/n: (MMx 43E) 209007094 – (MMx 50E) 209007104
From: (MMx 43E) 22.07.2009 - (MMx 50E) 31.07.2009
Subject: Geared motor with threaded axle

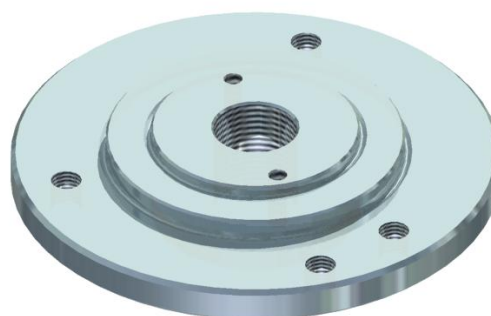
To reinforce the locking system of the flange to the brush motor this one has been replaced with a new one that has a threaded axle. The motor can be installed on machines older than the daPer rafforzare il sistema di aggancio della flangia ae indicated.

REMOVE		
Q.tà	Codice	Descrizione
1	427082	Gear motor 230V 50Hz
1	213640	Flange
2	408899	Grub screw M5x12
2	409834	Plug

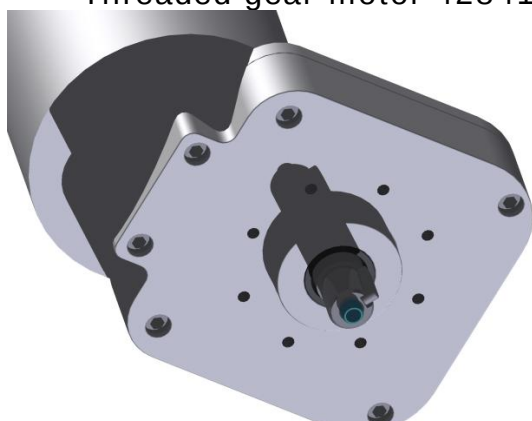
ADD		
Q.tà	Codice	Descrizione
1	428410	Gear motor 230V 50Hz threaded
1	217521	Threaded flange



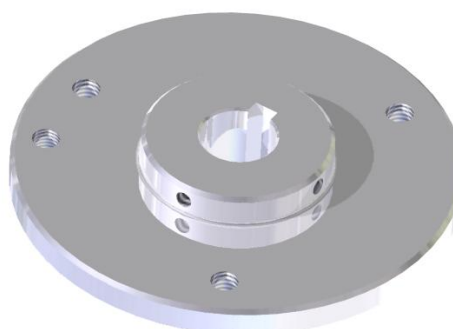
Threaded gear motor 428410



Threaded flange 217521



Old style motor 427082



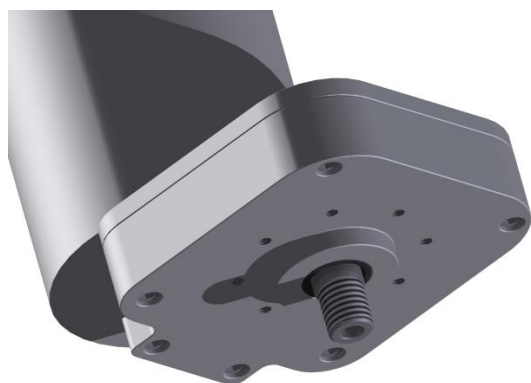
Old style flange 213640

Machine: MMx 43B/ 50B
Since the s/n: (MMx 43B) 209008034 – (MMx 50B) 209008039
From: (MMx 43E) 09.09.2009 - (MMx 50E) 15.09.2009
Subject: Geared motor with threaded axle

To reinforce the locking system of the flange to the brush motor this one has been replaced with a new one that has a threaded axle. The motor can be installed on machines older than the daPer rafforzare il sistema di aggancio della flangia ae indicated.

REMOVE		
Q.ty	Code	Description
1	422610	Gear motor. 24V 400W
1	213640	Flange
2	408899	Grub screw M5x12
2	409834	Plug

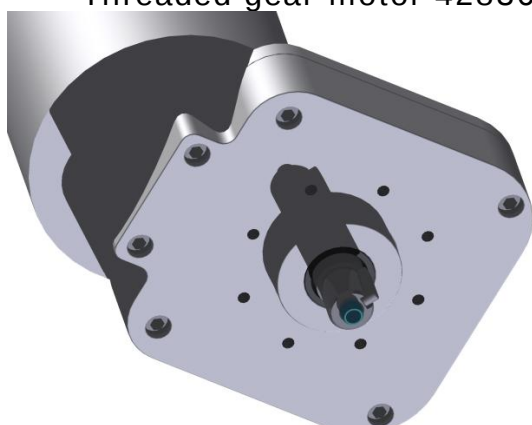
ADD		
Q.ty	Code	Description
1	428364	Gear motor. 24V 400W threaded
1	217521	Threaded flange



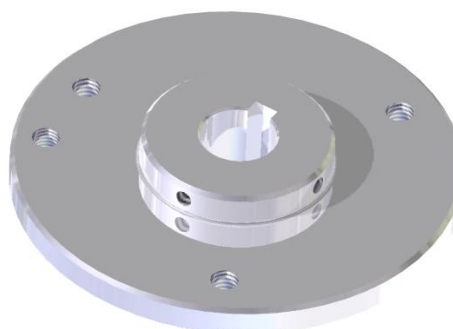
Threaded gear motor 428364



Threaded flange 217521



Old style motor 422610



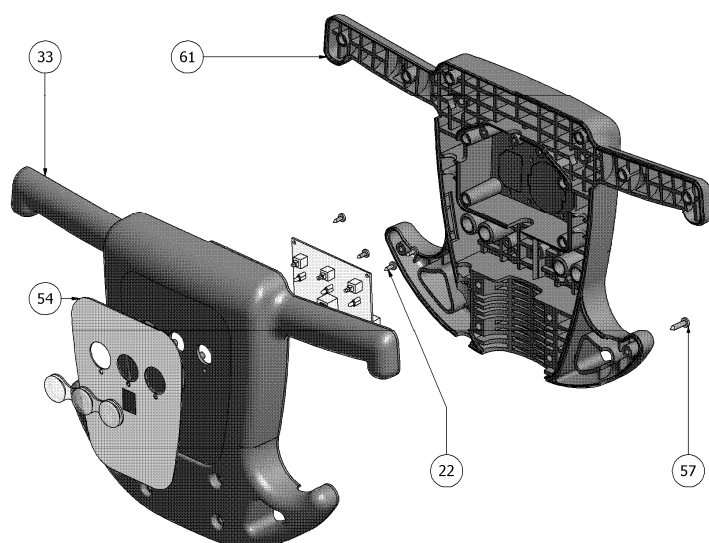
Old style flange 213640

Machine: Genie B
Since the s/n: da 209004937 a 209005001 e da 209005313 in poi
From: 29/05/2009
Subject: Plastic handle bar replacement

To improve the quality of the Genie B handle bar the production process has been modified.

REMOVE		
Q.ty	Code	Description
1	423062	Handle Cover
1	424456	Handle cover decal
4	415789	Screw M3x20
4	415882	Nut M3
4	409148	Washer 4x8x3 Nylon
4	409142	Washer M4
4	409077	Self locking nut M3
4	212618	Spacer d=3,5 D=8 L=6,5

ADD		
Q.ty	Code	Description
1	424461	Handle cover
1	428266	Handle cover decal
4	415866	Screw D2,9x9,5
2	408872	Screw D.3,9x16



Pos	Qty	Code	Desc
33	1	424461	COPERCHIO MANUBRIO
31	1	421244	SCHEDA COMANDI 12V
22	4	415866	VITE D.2,9x9,5 AUTOF. TCTC
54	1	428266	ETICHETTA CRUSCOTTO
55	1	424143	PULSANTIERA COMANDI
57	2	408872	VITE D.3.9x16 AUTOF.
61	1	416745	CORPO MANUBRIO

The handle body new style (pos 61 code 416745) is totally interchangeable with the old one but to have the same color and a complete mechanical compatibility we suggest to replace both parts.

APPENDIX 1

Instructions to install the new distributor for the dual brush machine models Mx BT, Mx BT CB, SMx BT ed SMx BT CB.

The assembling kit is divided in two parts:

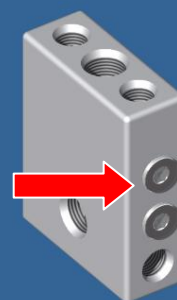
- To mount the distributor kit
- To install the kit on the machine

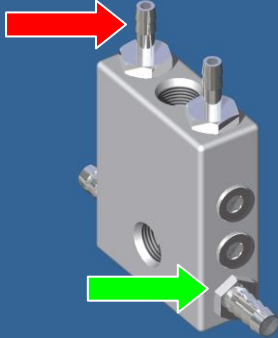
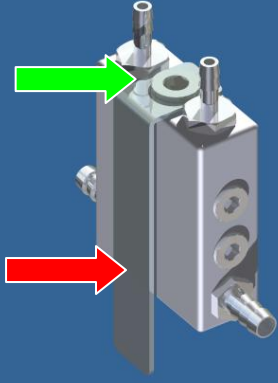
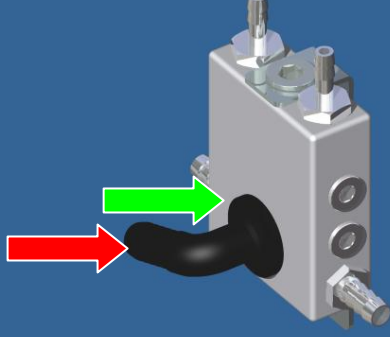
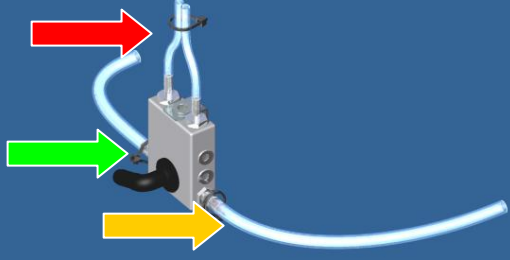
Bill of material:

Q.ty	Code	Description
1	202202	Glassy hose
1	202209	Glassy hose
2	213251	Glassy hose
1	217555	Distributor support
1	400667	Washer Nylon
5	410274	Plastic wrapper
1	410349	Elbow
2	410393	Connector
1	418158	Plug 3/8"
2	422186	Connector 1/4"
4	425817	Plug 1/4"
1	428247	Distributor

Distributor assembly mounting.

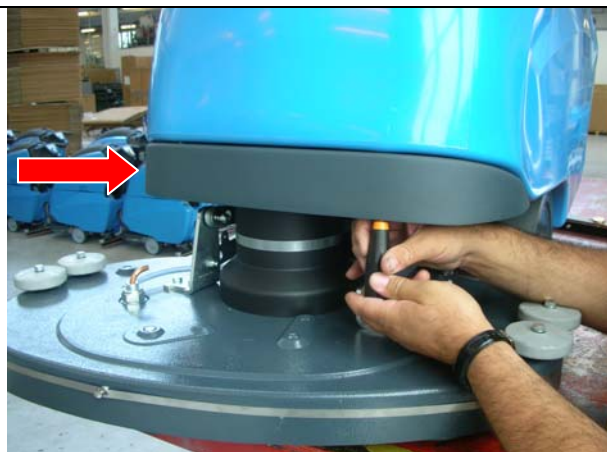
1. Install the **4 plgs 425817** (2 for each side) in the indicated.



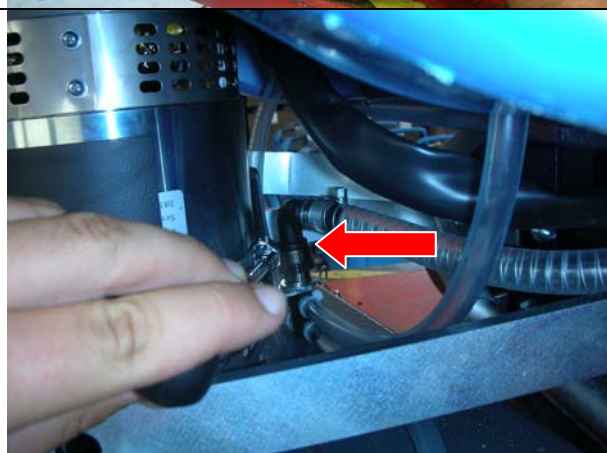
2. Install the connections 410349 on the bottom holes and the connectors 422186 on the upper holes of the distributors.	
3. Fix the distributor support blade 217555 using the plug 418158 as the picture shows.	
4. Connect the elbow 410349 using a washer in nylon 400667 and put it like the picture shows.	
5. Connect the hoses 213251 to the upper connectors and join them using a plastic wrapper 410274. 6. Connect the hose 202202 to the connector in position low aand left and the hose 202209 in the connector in low right position.	

Installation of the group on the machine.

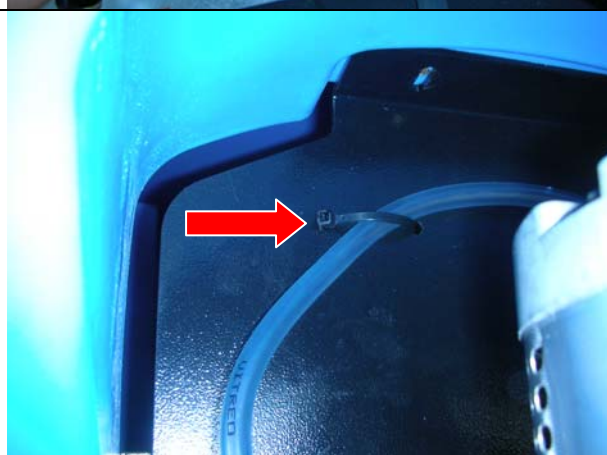
1. Unscrew the 4 screws that fix the **cover** of the machine.



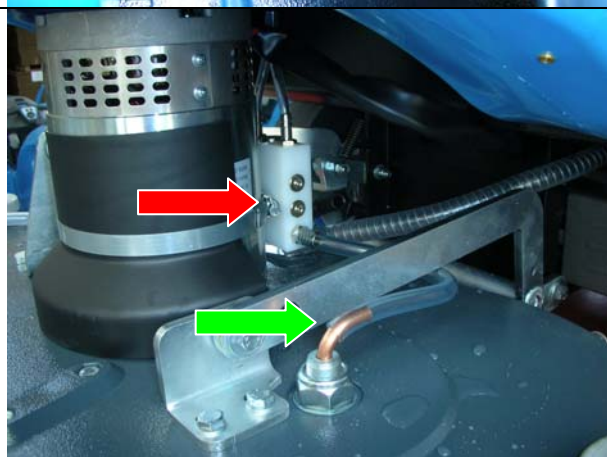
2. Loose the **wrapper** that connect the distributor to the machine to let you remove it.



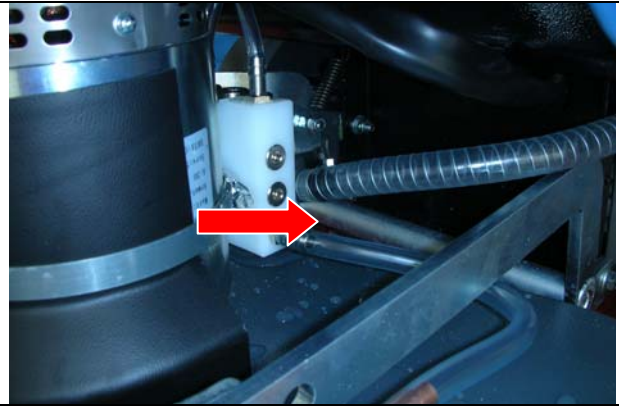
3. Cut the **plastic wrapper** that fix the breath hose to the frame. Unconnect the hoses from the copper pipes and remove the whole group.



4. **Fix the distributor** using the wrapper and the support blade to the brush motor using the wrapper you removed before.
5. Connect the copper pipes to the glassy ones and fix them using the **plastic wrappers** included in the kit.



6. Connect the **hose** that comes from the hydraulic installation to the elbow of the distributor using the same wrapper used before.



APPENDICE 2

Instructions to install the new distributor for the dual brush machine models Mx BT DS, Mx BT CB DS, SMx BT DS ed SMx BT CB DS.

The kit is divided into three phases::

- To mount the distributor and the accessories
- To mount the bypass group and its accessories
- To fix the distributor to the machine

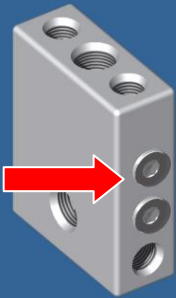
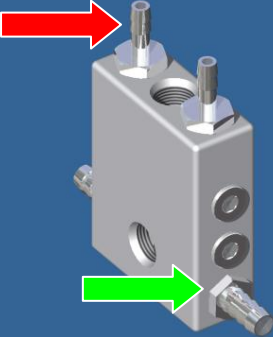
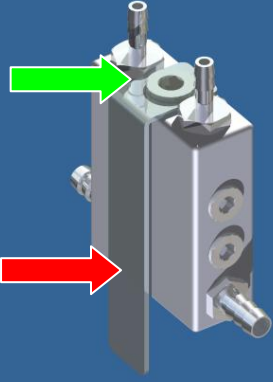
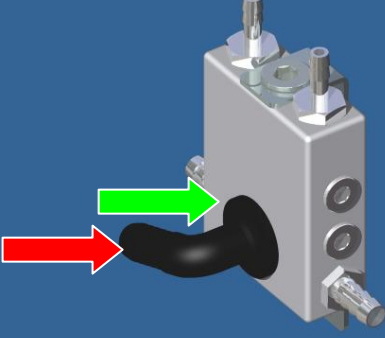
Bill of materials:

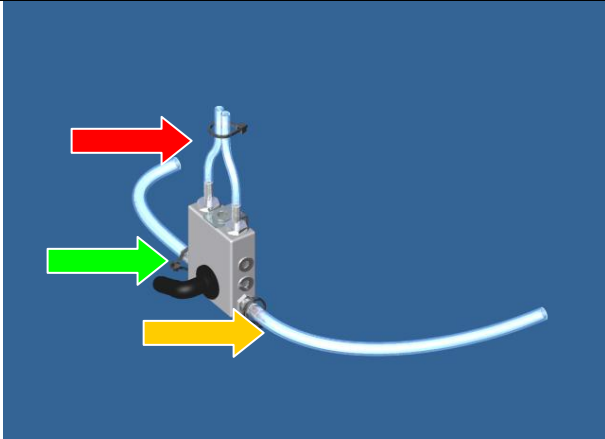
Q.ty	Code	Description
1	213860	Reinforced glassy hose
1	217766	Valve support
1	217971	Detergent glassy hose
4	410292	Wrapper
3	410349	Elbow
1	410431	Nipple
1	414646	Solenoid valve
1	417938	T connection
1	421350	3 positions valve
1	423029	Reduction connection
1	426370	Reduction bushing

1	202202	Glassy hose
1	202209	Glassy hose
2	213251	Glassy hose
1	217555	Distributor support
1	400667	Nylon washer
5	410274	Plastic wrapper
1	410349	Elbow
2	410393	Connector
1	418158	Plug 3/8"
2	422186	Connection 1/4"
4	425817	Plug 1/4"
1	428247	Distributor

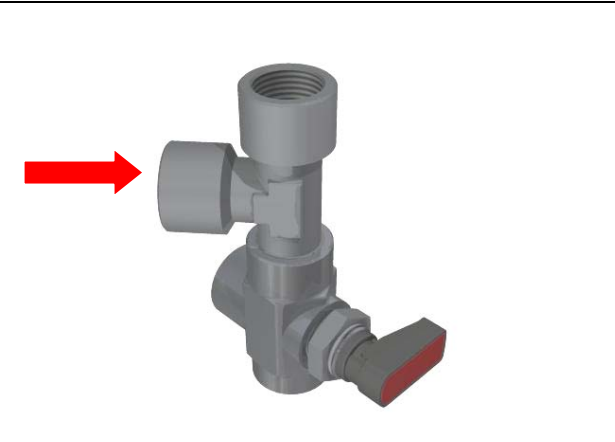
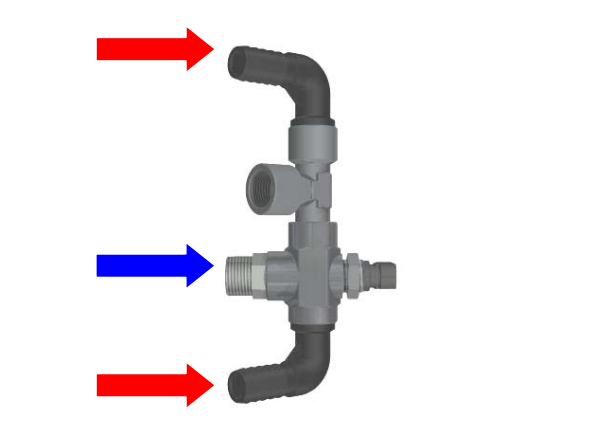
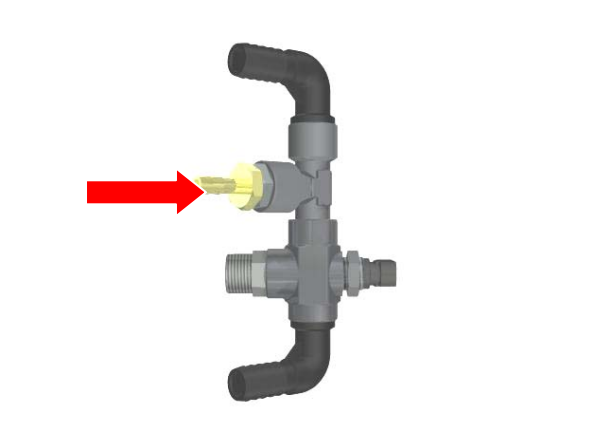
The highlighted parts are already present on the machine and can be used.

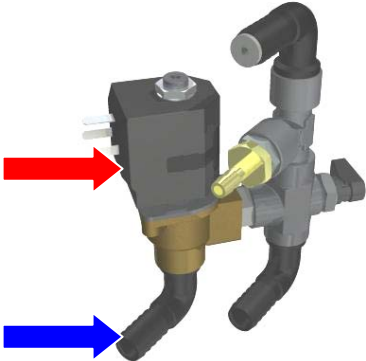
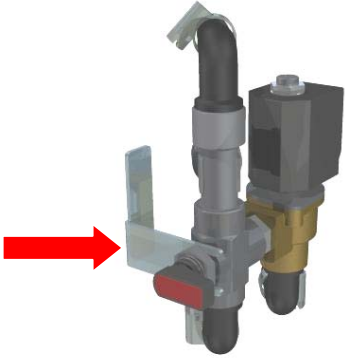
Distributor mounting.

7. Install the 4 plgs 425817 (2 for each side) in the indicated.	
8. Install the connections 410349 on the bottom holes and the connectors 422186 on the upper holes of the distributors.	
9. Fix the distributor support blade 217555 using the plug 418158 as the picture shows.	
10. Connect the elbow 410349 using a washer in nylon 400667 and put it like the picture shows.	

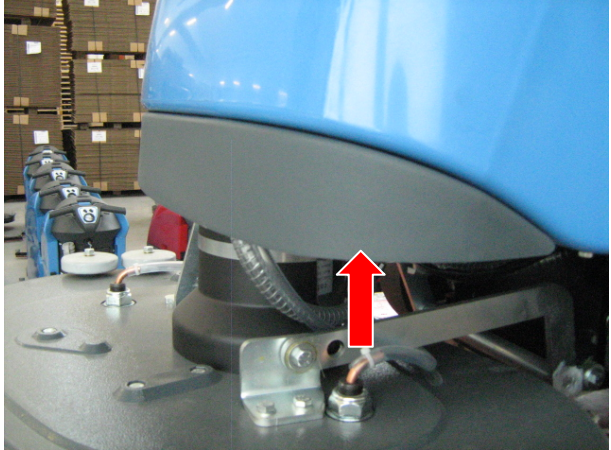
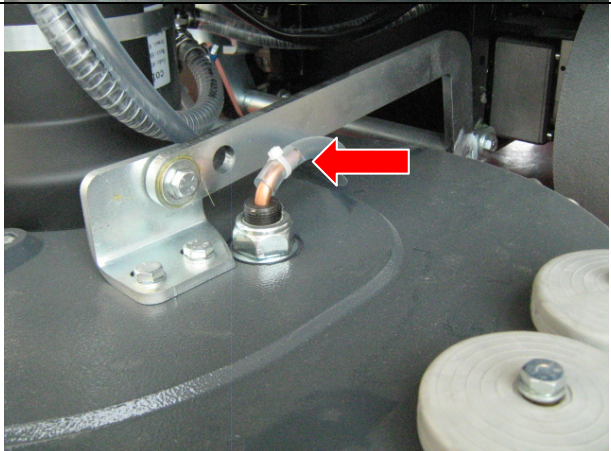
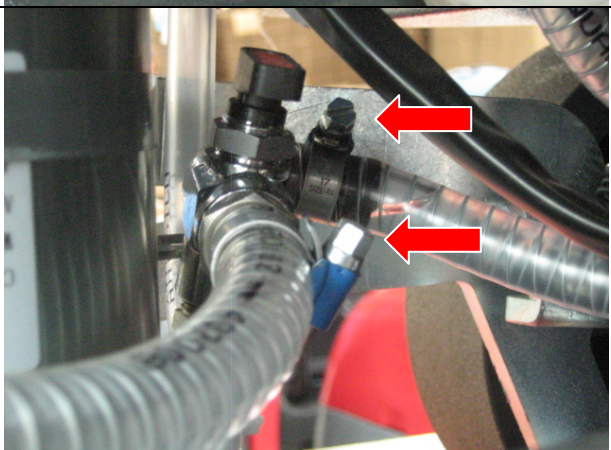
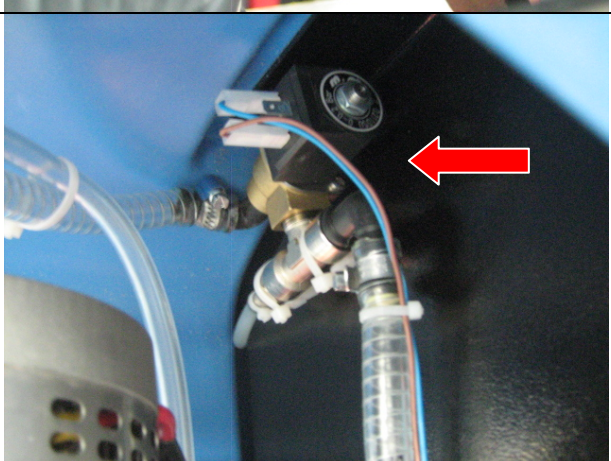
11. Connect the hoses 213251 to the upper connectors and join them using a plastic wrapper 410274. 12. Connect the hose 202202 to the connector in position low aand left and the hose 202209 in the connector in low right position.	
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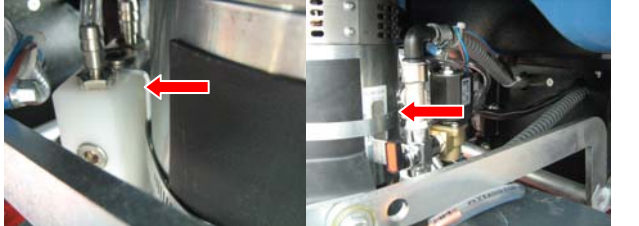
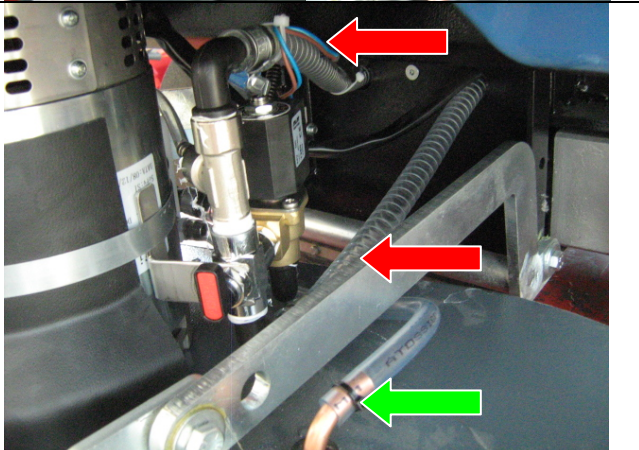
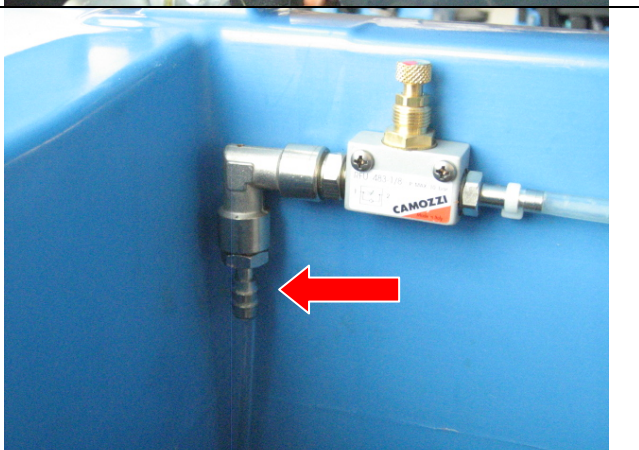
Solenoid valve and bypass valve group:

1. It is very important to add some teflon tape on the thread to assure the sealing of all the connections. 2. Connect the T connector to the valve.	
3. Fix the two elbows to the valve and the T connector. 4. Screw up the nipple to the central inlet of the valve.	
5. Screw up the reduction to the t connector and the connector to the reduction.	

6. Screw the solenoid valve to the valve and fix the elbow to the solenoid valve as the picture shows.	
7. Fix the support blade of the group to the valve using the nut included on the valve.	
8. Connect the distributor group to the bypass group using the hose D=17 d=12 L=100 code 213860. 9. Connect the detergent hose to the connector fixed to the t connector.	

Installation of the groups on the machine.

Loose the 4 screws that fix the carter and remove this one to let the work be easier.	
Remove the plastic wrappers that fix the hoses to the copper pipes and unconnect the hoses.	
Remove the wrappers that fix the two hoses to the bypass valve and unconnect the hoses.	
Unscrew the wrappers that fix the two hoses to the solenoid valve and to the elbow. Unconnect the detergent hose and the electric wires of the solenoid valve, cut the plastic wrappers that fix the solenoid valve group to the chassis and remove the whole group from the machine.	

Fix using the wrapper the distributor group and the solenoid valve group to the brush deck letting the two support blades pass between the wrapper and the motor.	
Connect the hoses of the hydraulic installation to the elbows connected to the solenoid valve. Connect the wires to the solenoid valve. Fix the hoses to the distributors using some plastic wrappers.	
Connect the hose of the detergent to the valve in the battery compartment.	
Fix the detergent hose to the plastic support on the machine to let it not be stressed by the brush deck movements.	