Corso Tecnico

Technical Training - SMG -

- Datasheet
- Instrument Panel
- Brush Base Assembly
- Squeegee Assembly
- Suction Group
- Traction Group
- Electric System
- Idric System

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Datasheet

Datasheet	SMG 120	SMG 130
Autonomy Up to (h)	4	4
Squeegee Width (cm)	127	127
Disc Brush (n° / diameter cm.)	2/61	2/100
Solution Tank (l)	275	275
Recovery Tank (l)	334	334
Suction Motor (n°/watt)	2/650W	2/650W

Datasheet

Datasheet	SMG 120	SMG 130
Brushes Motor (n°/watt)	1/4000W	2/1300W
Traction Motor (Watt)	1500	1500
Maximum Gradient (full load) (%)	10	10
Power	36 Vdc	36 Vdc
Battery (V/Ah)	36/360	36/360

Overview

- I-Drive Program Selector
- Extra Pressure on the brush base
- Forward and Backward Speed Selector.
- Service and Parking Brake.
- Actuators for Brush Base Assebly, Squeegee Assembly and Recovery Tank
- Dosing Systemo (optional).

Instrument Panel

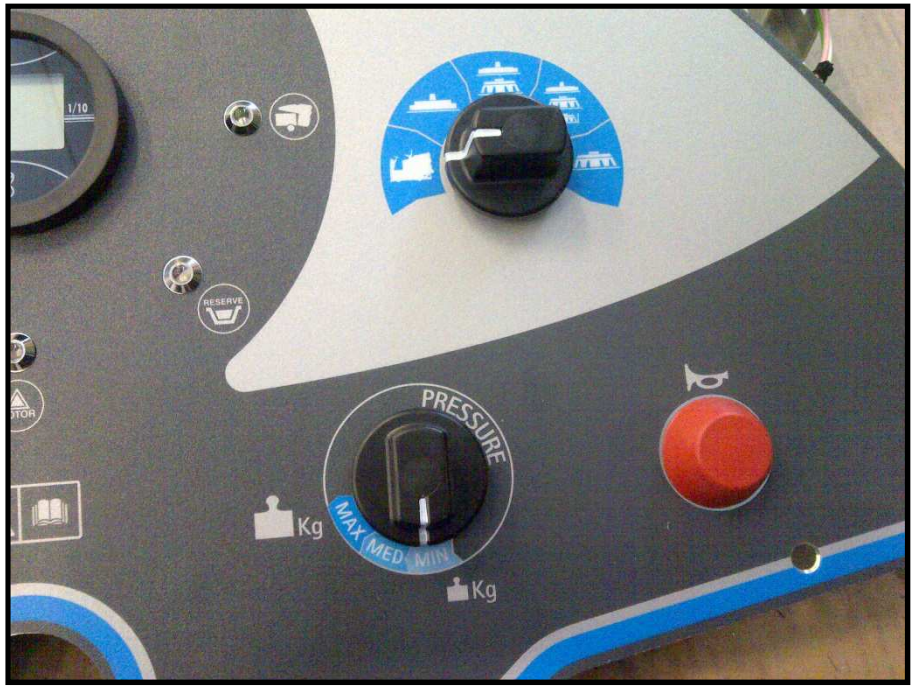
Hour Meter and Warning Led

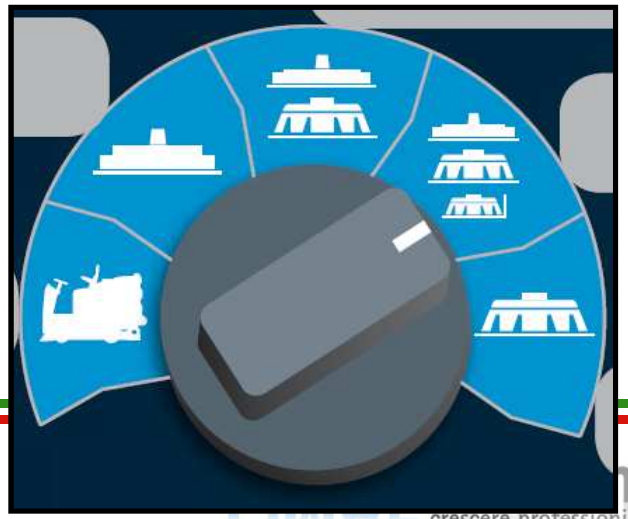
Forward and Backward

Brake Pedal

Instrument Panel

Instrument Panel

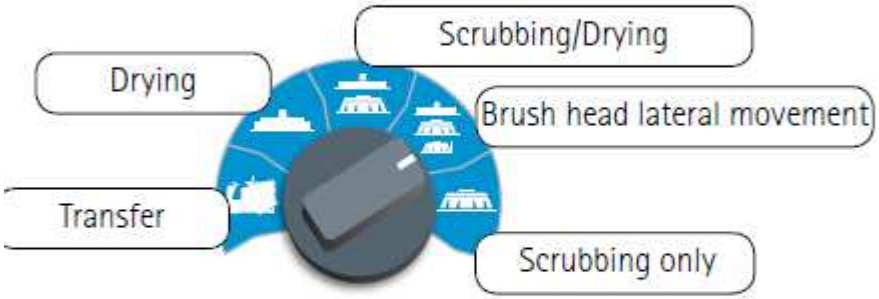




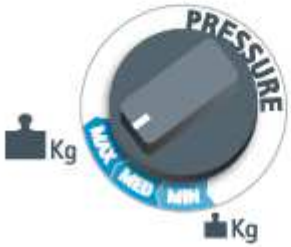
Instrument Panel

Instrument Panel

1 Set the working speed



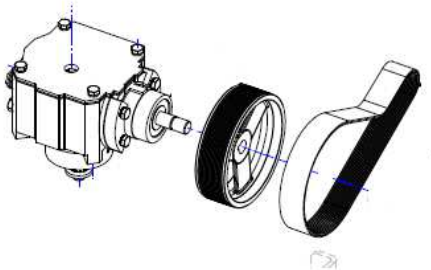
2 Set the working program



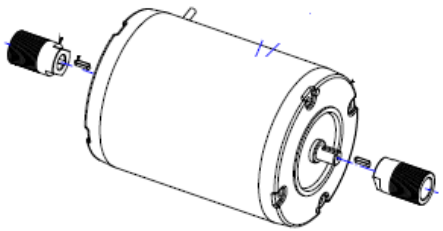
3 Adjust cleaning solution and brush head pressure according to the type of dirt to remove

Corso Tecnico

Brush Base Assembly
- SMG 120 -

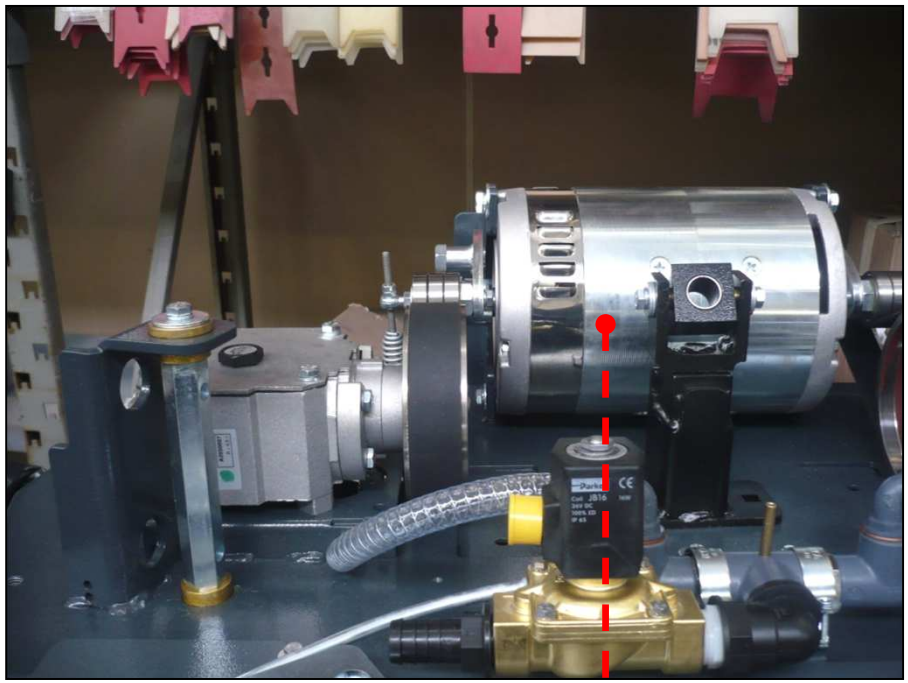


Left and Right Reduction Gear



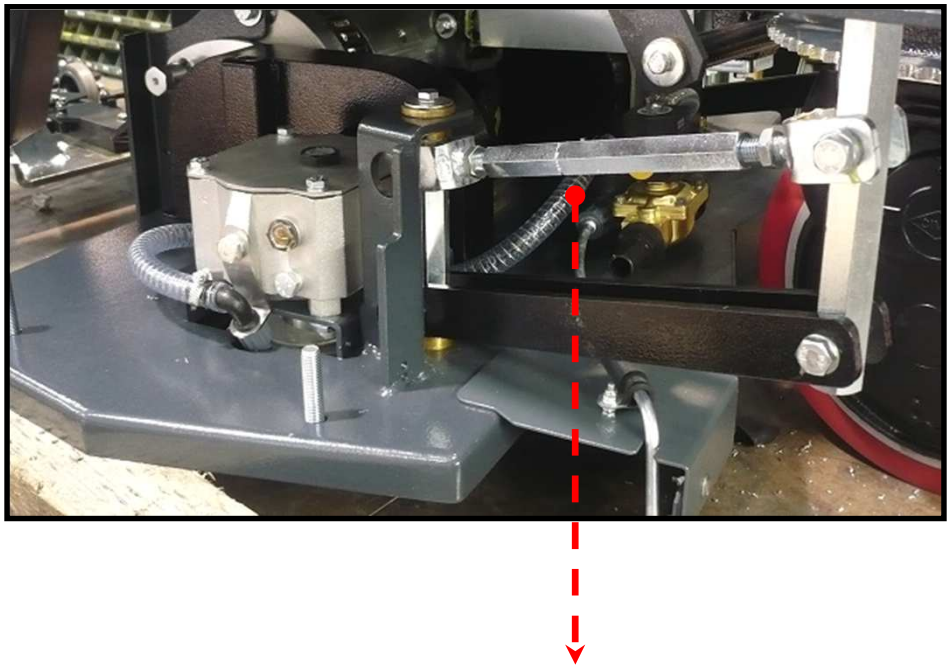
Brush Motor

Brush Base Assembly
- SMG 120 -

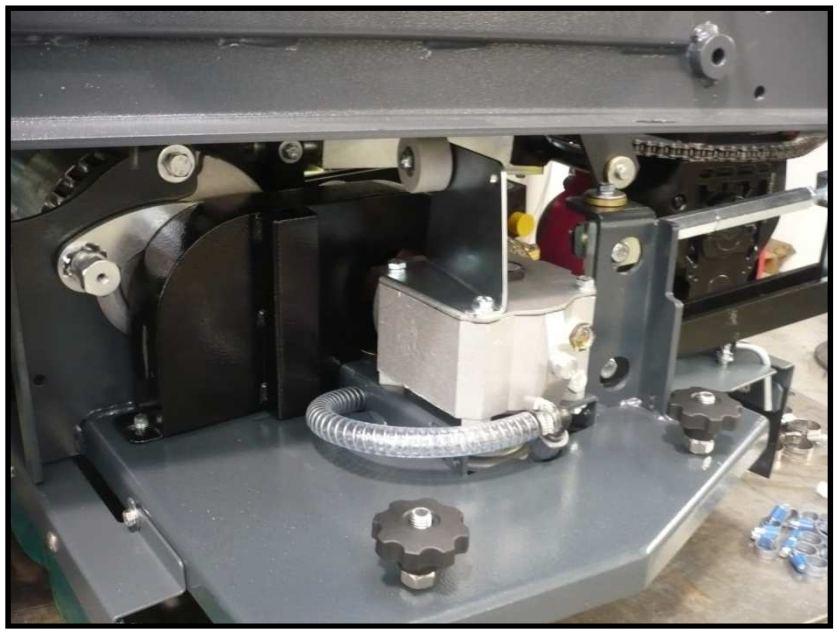


One motor drives two brushes with a belt system and the reduction gears

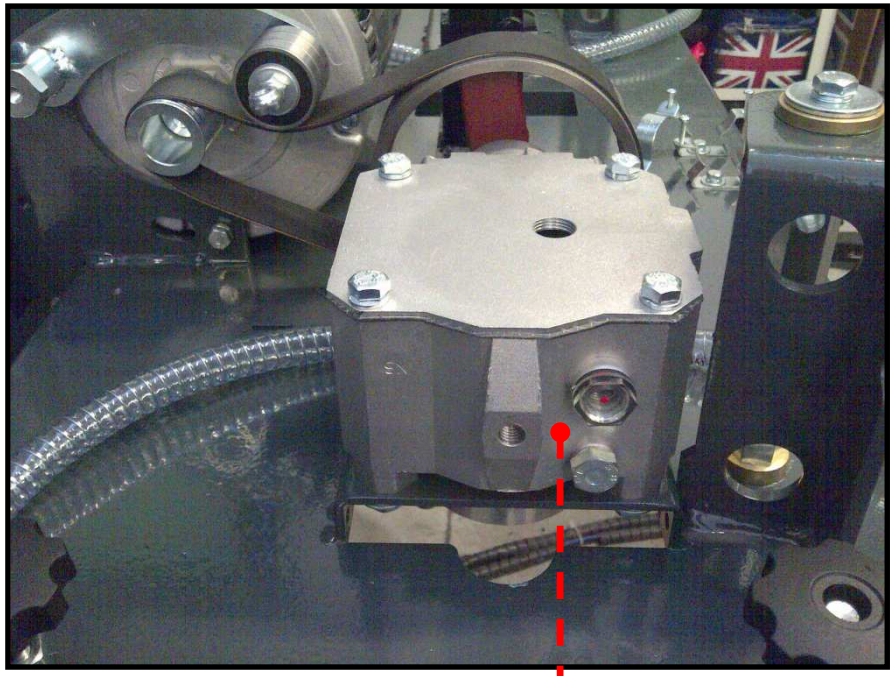
Brush Base Assembly
- SMG 120 -



Adjustment for the brush base

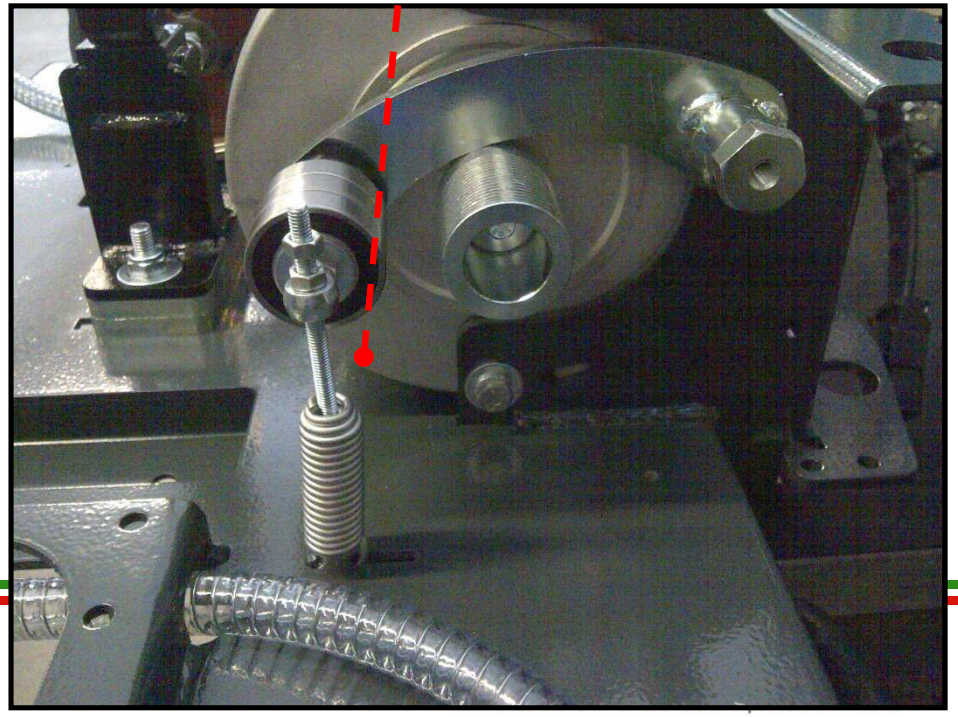


Brush Base Assembly
- SMG 120 -

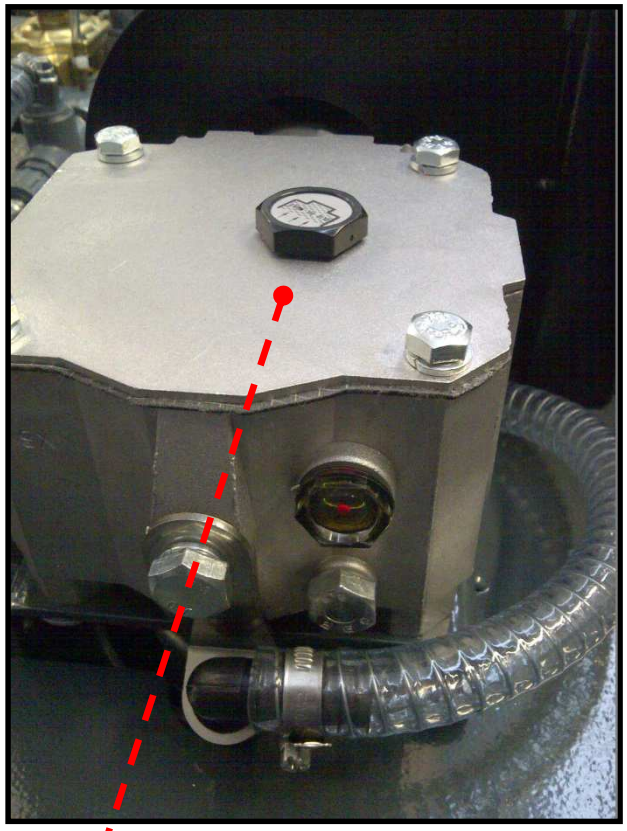


Oil Level

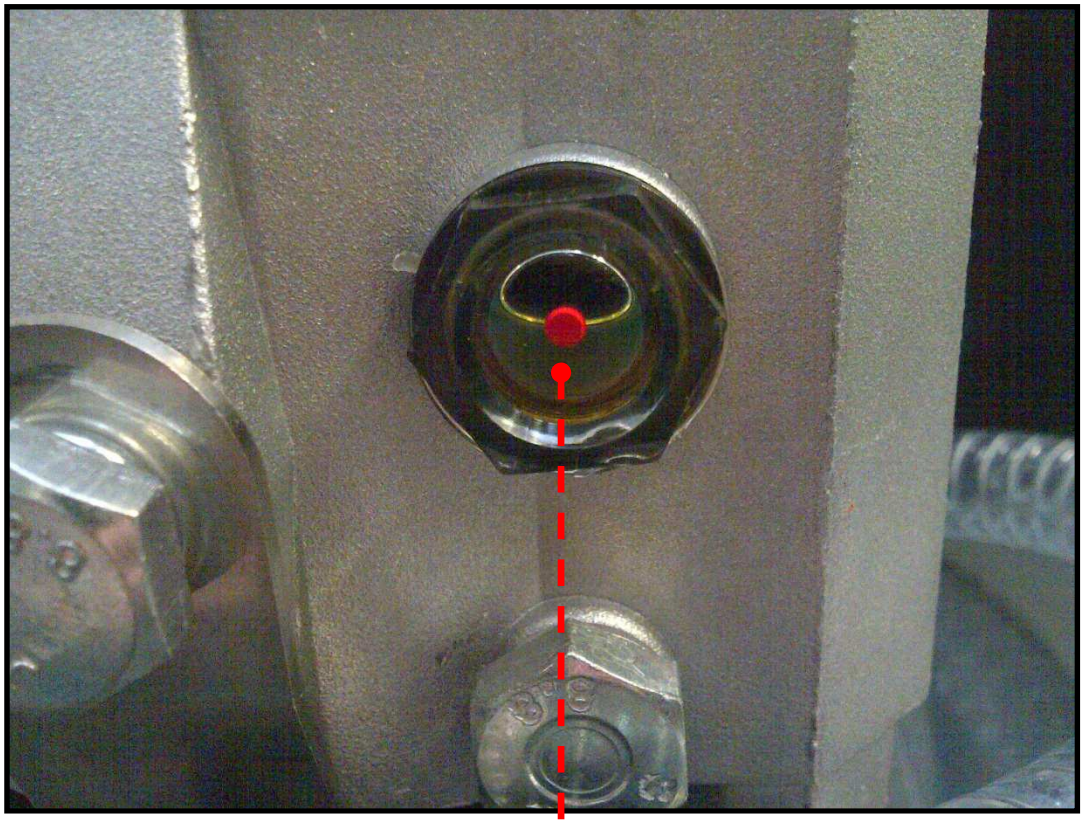
Belt Tensioner of the brush base



Brush Base Assembly
- SMG 120 -

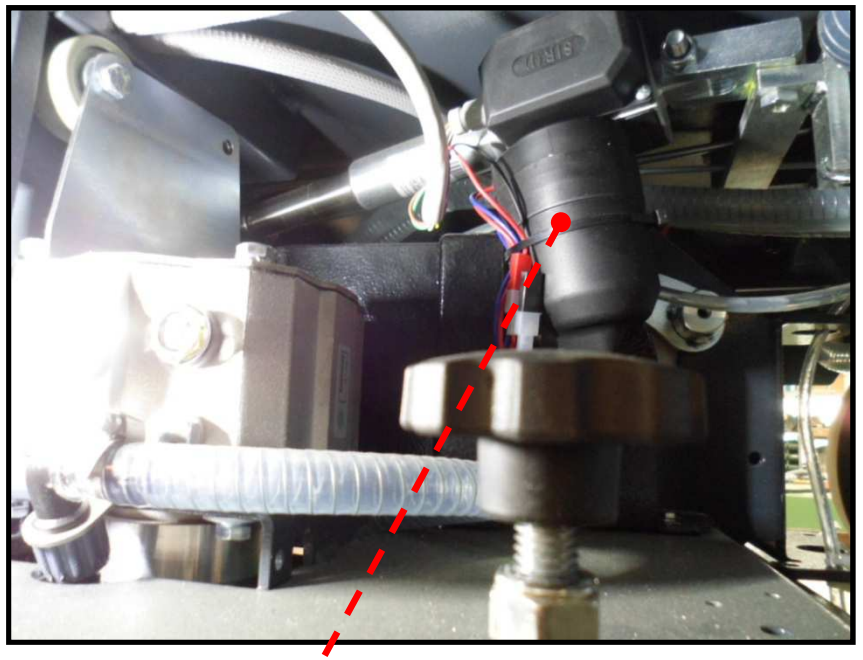


Filler cap (oil)



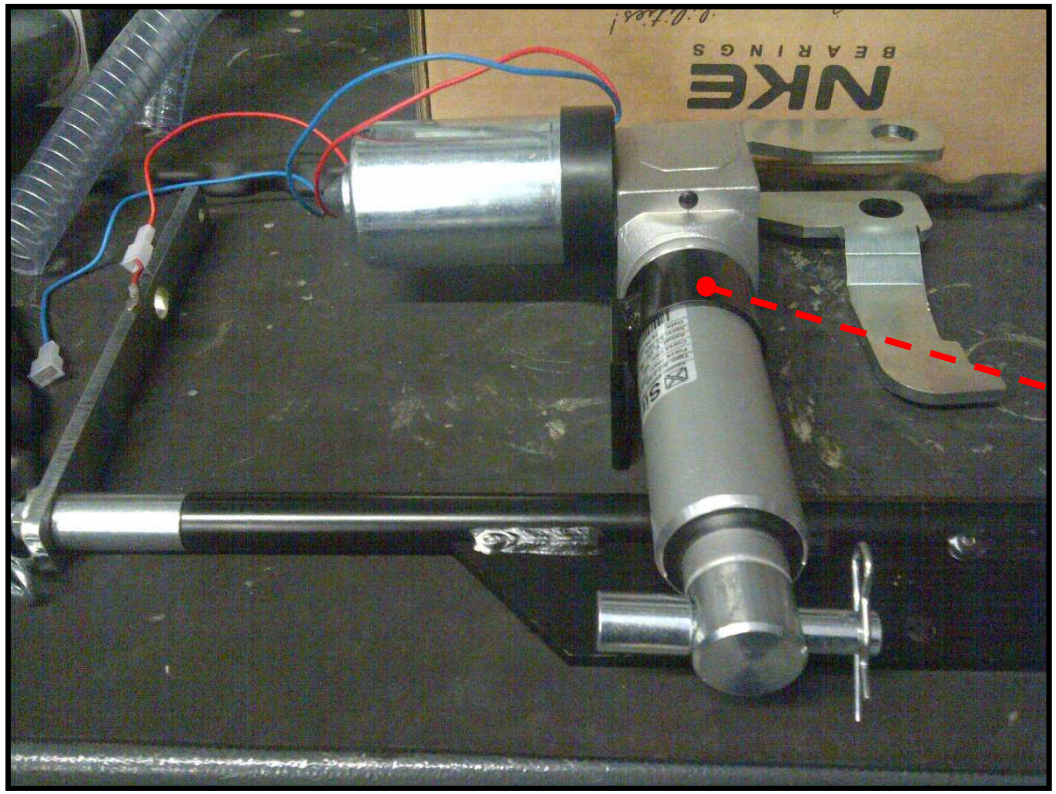
Oil level

Brush Base Assembly
- SMG 120 -



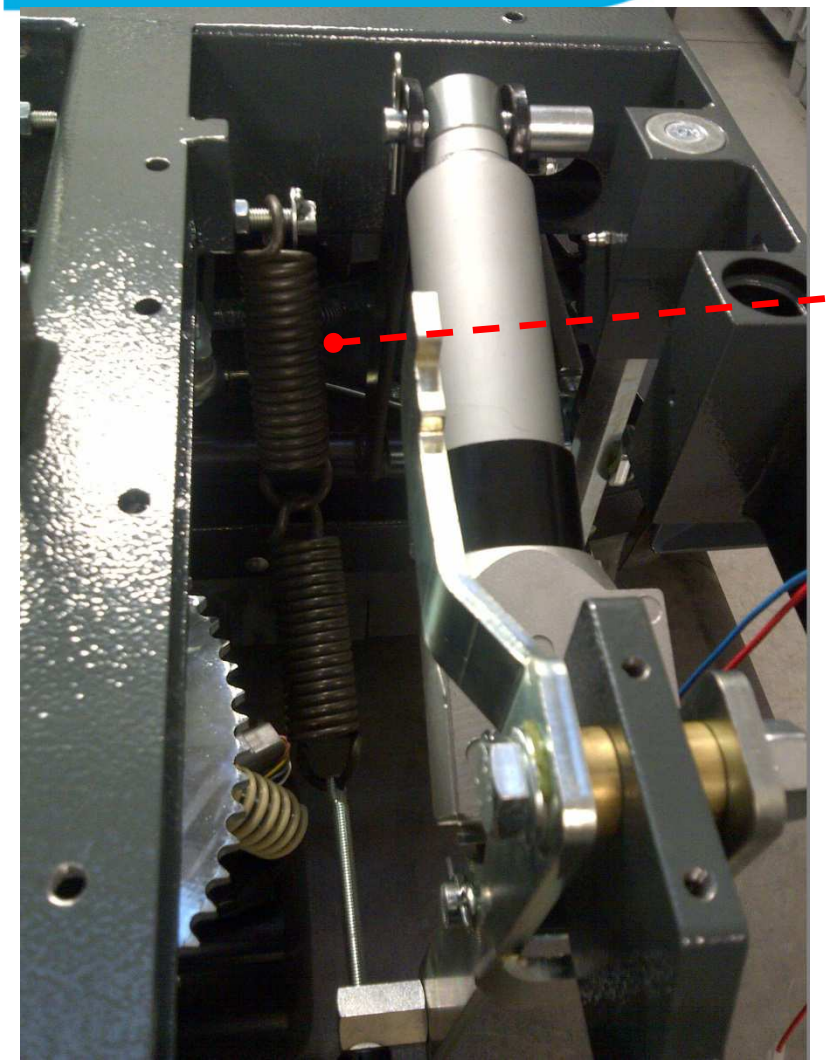
Actuator - Extra pressure and
Brush Base Up.

Brush Base Assembly
- SMG 120 -

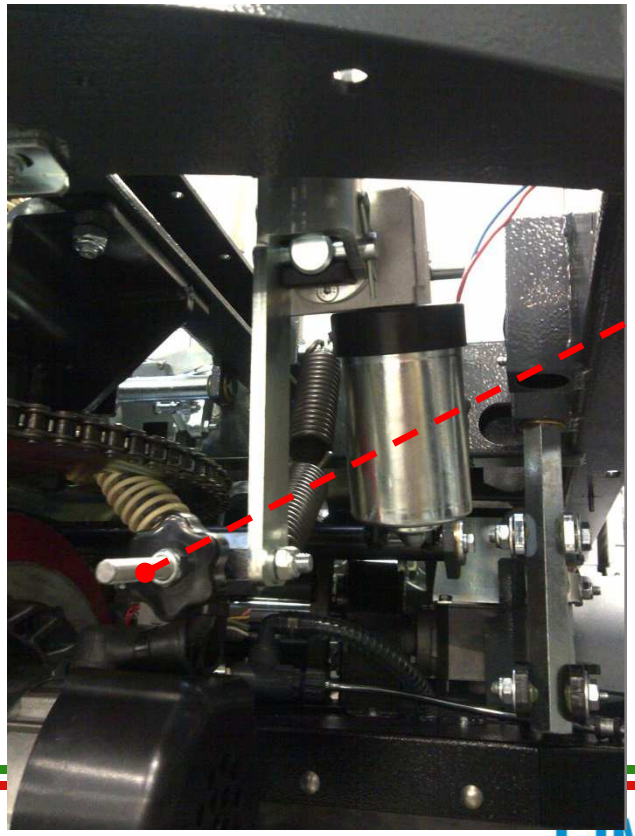


Actuator - Brush Base.

Brush Base Assembly
- SMG 120 -

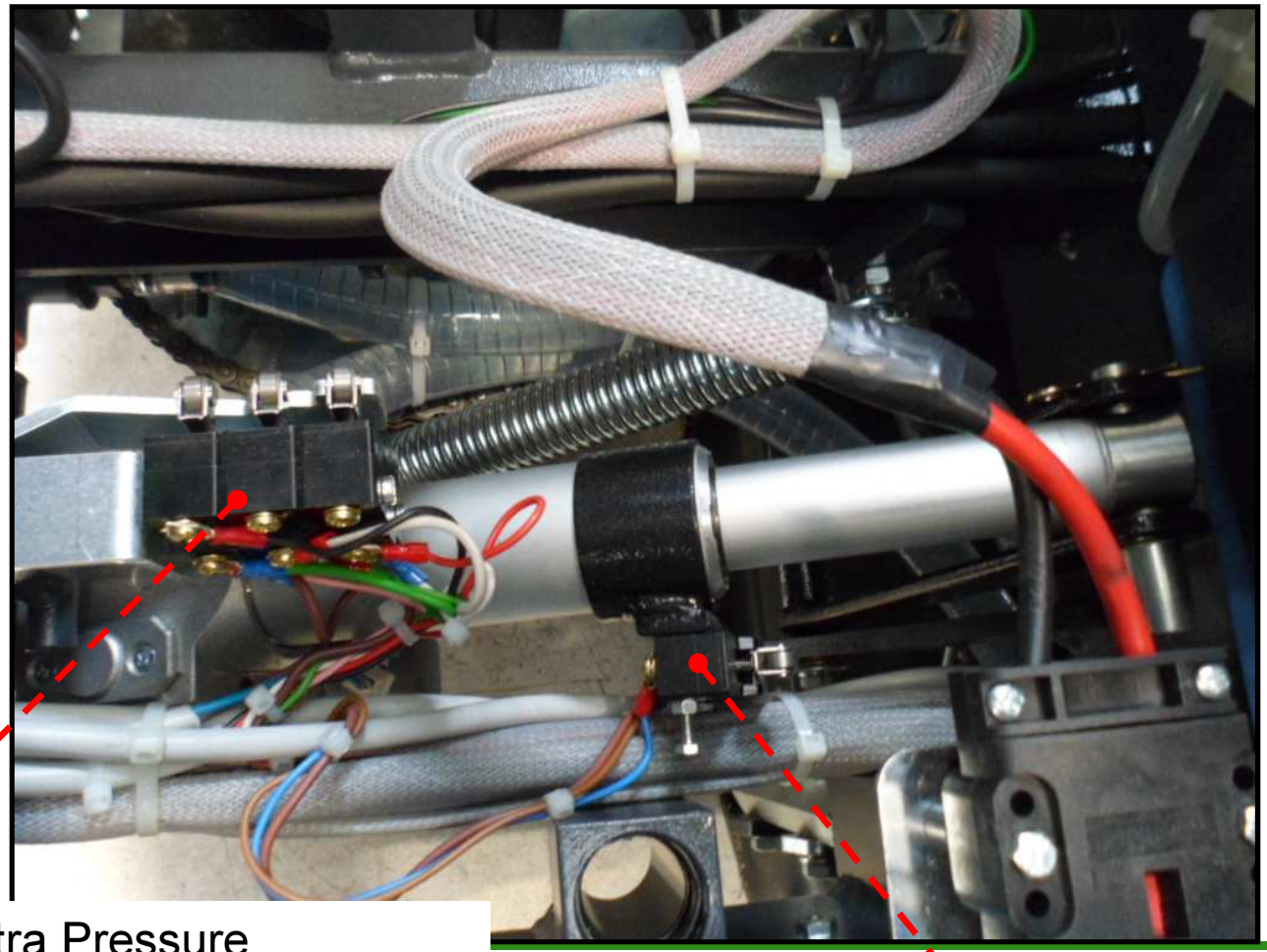


Extra Pressure – Brush Base.



5 cm

Brush Base Assembly
- SMG 120 -



Micro - Extra Pressure

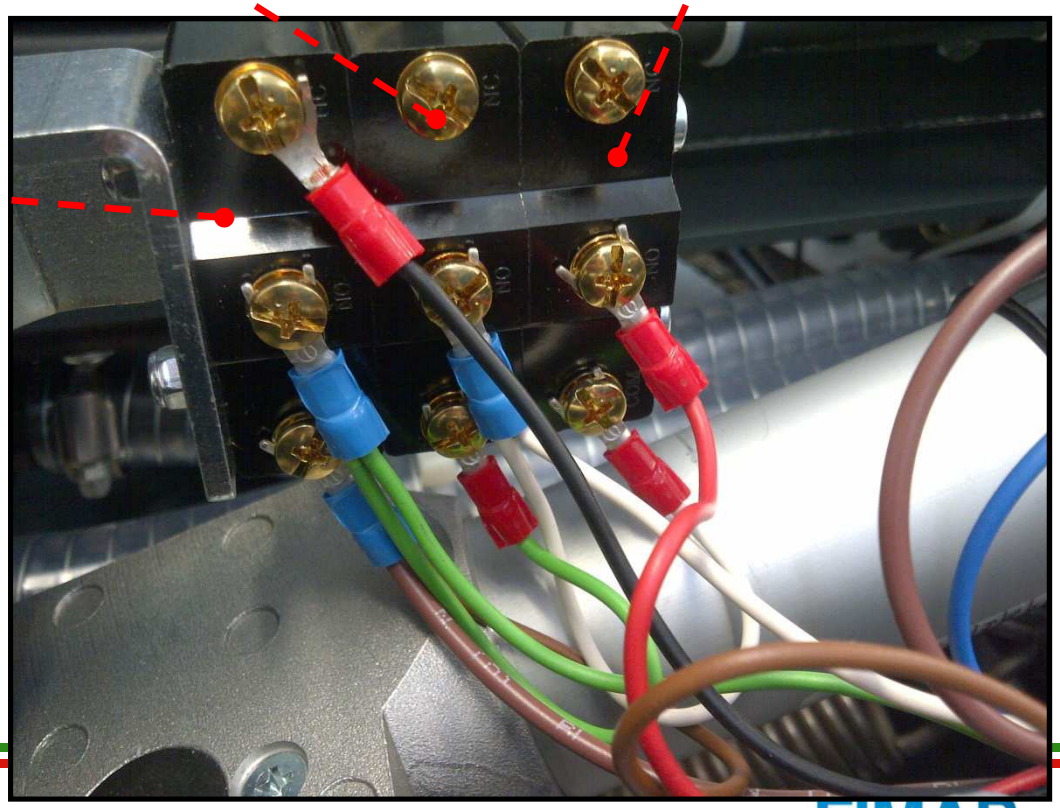
Micro - Brush Base Up

Brush Base Assembly
- SMG 120 -

Micro - 2° Pressure
Brush base down

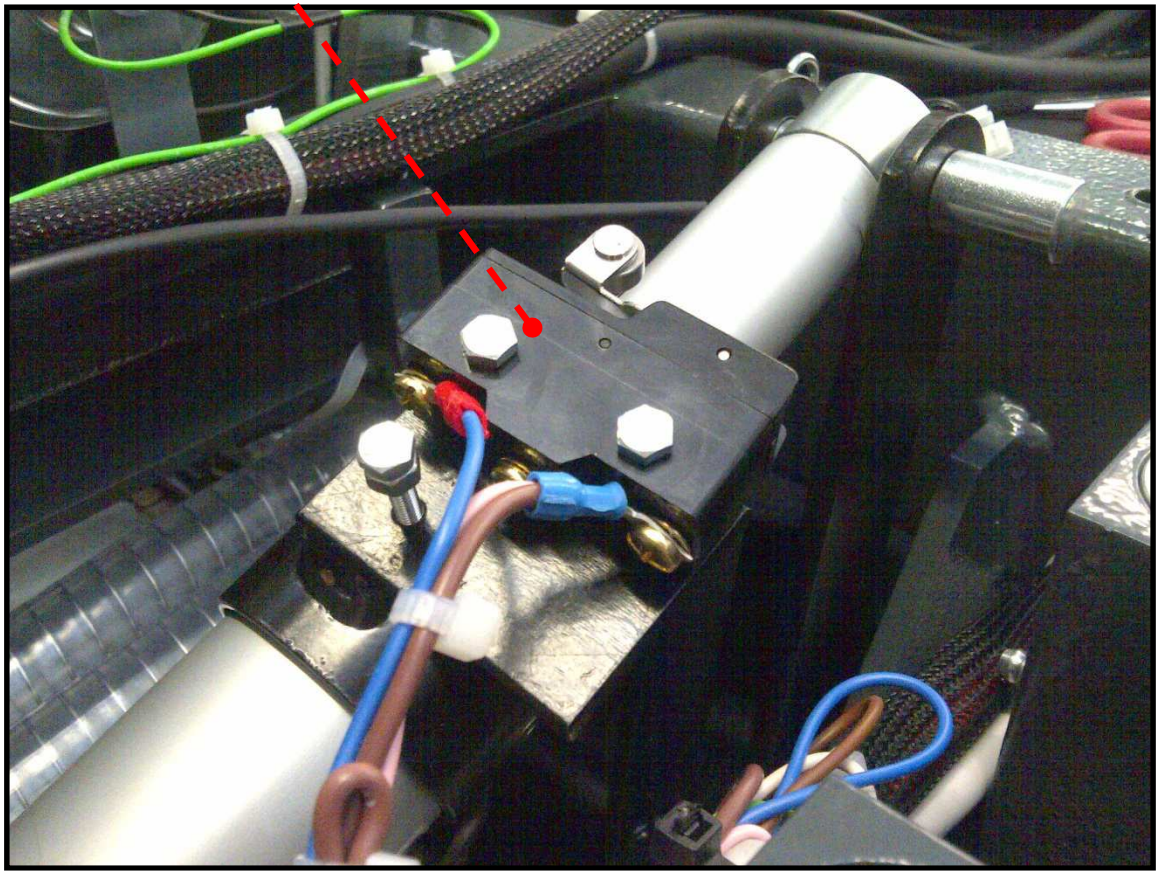
Micro - 3° Pressure
Brush base down

Micro - 1° Pressure
Brush base down

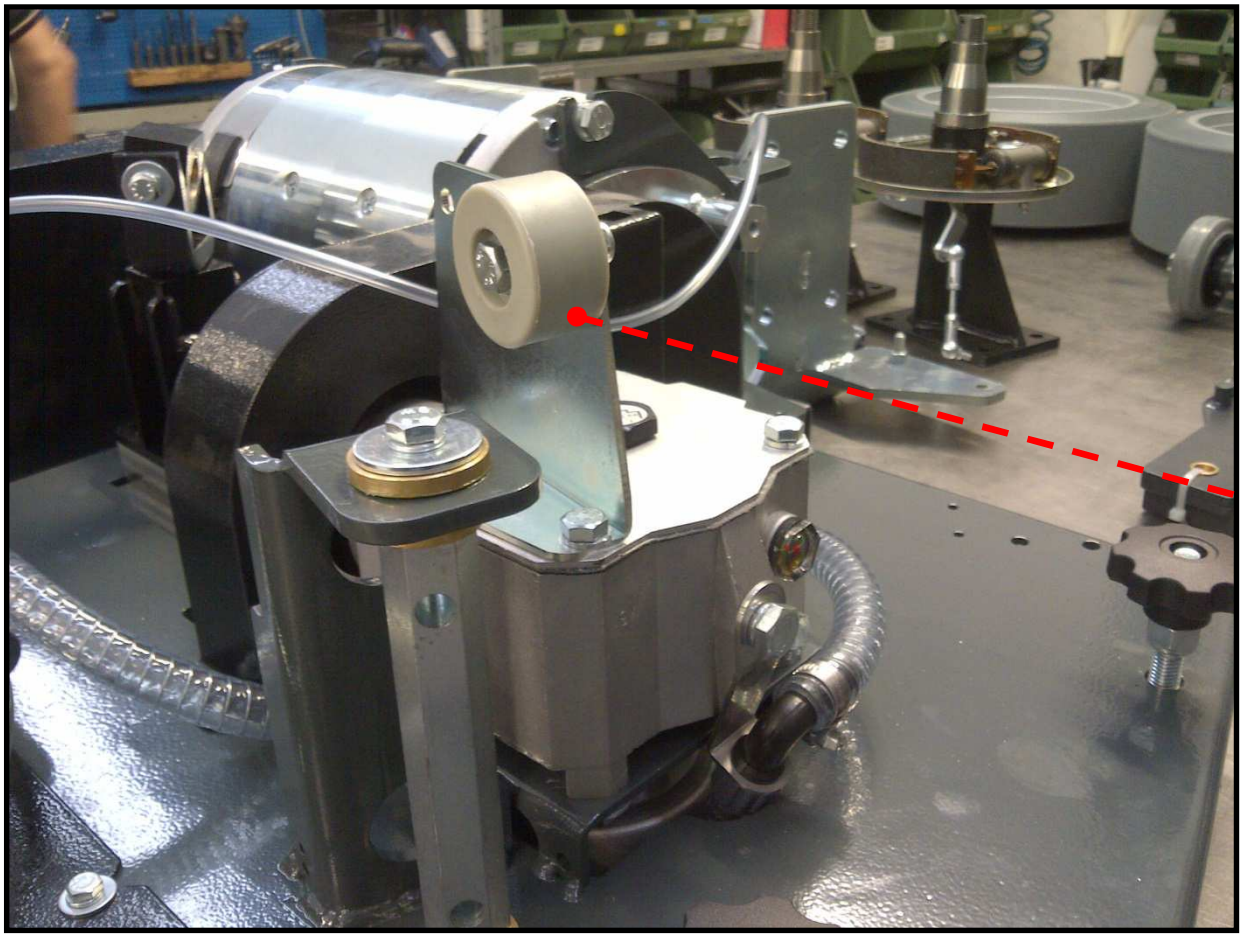


Brush Base Assembly
- SMG 120 -

Micro - Brush Base Up

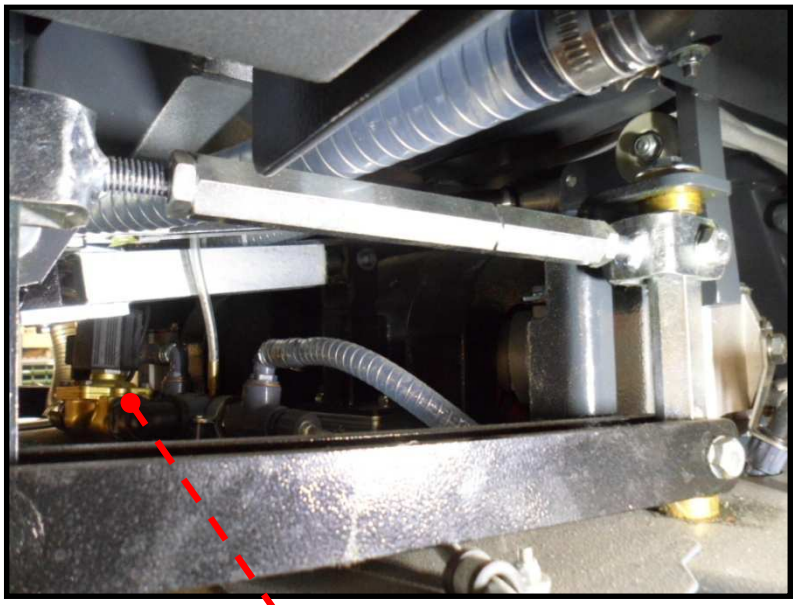


Brush Base Assembly
- SMG 120 -

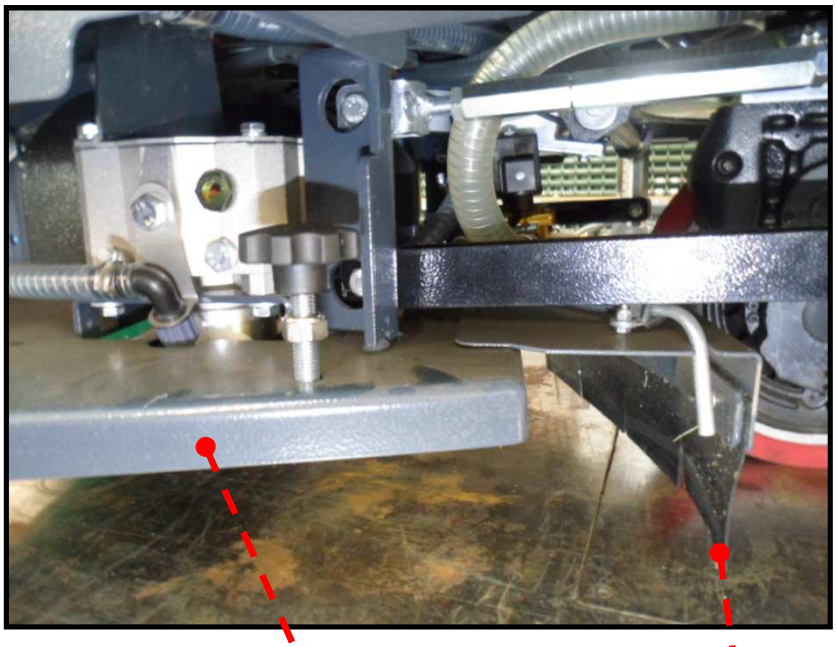


Limit Switch
Brush Base Up

Brush Base Assembly
- SMG 120 -

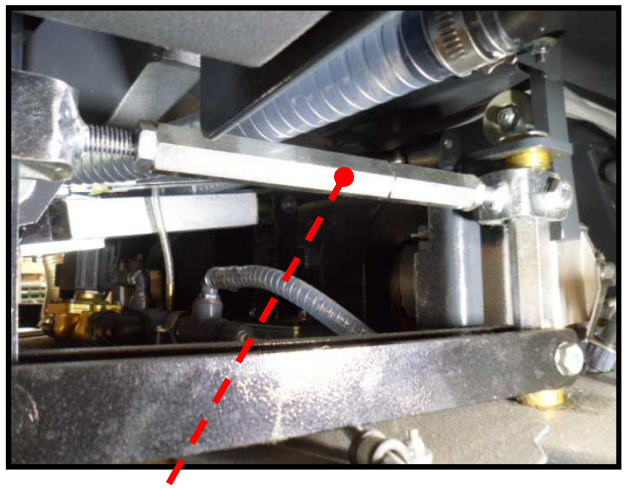


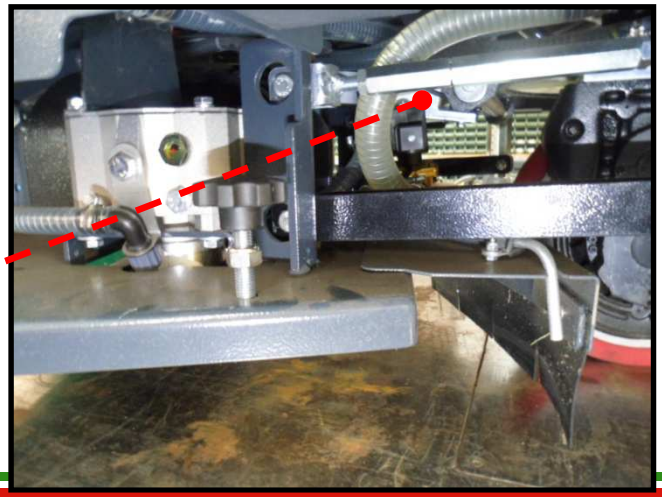
Solenoid Valve



Water Output

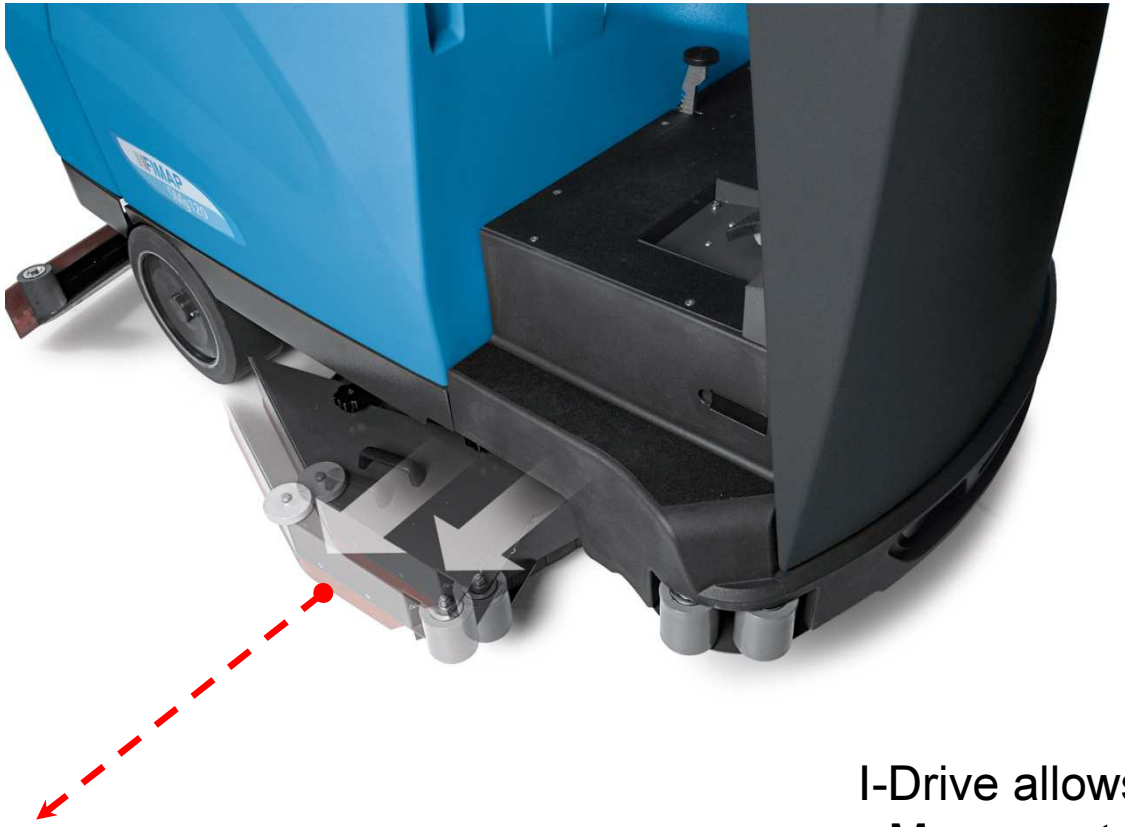
Brush Base Assembly
- SMG 120 -





Brush Base Adjustment – hexagonal rod

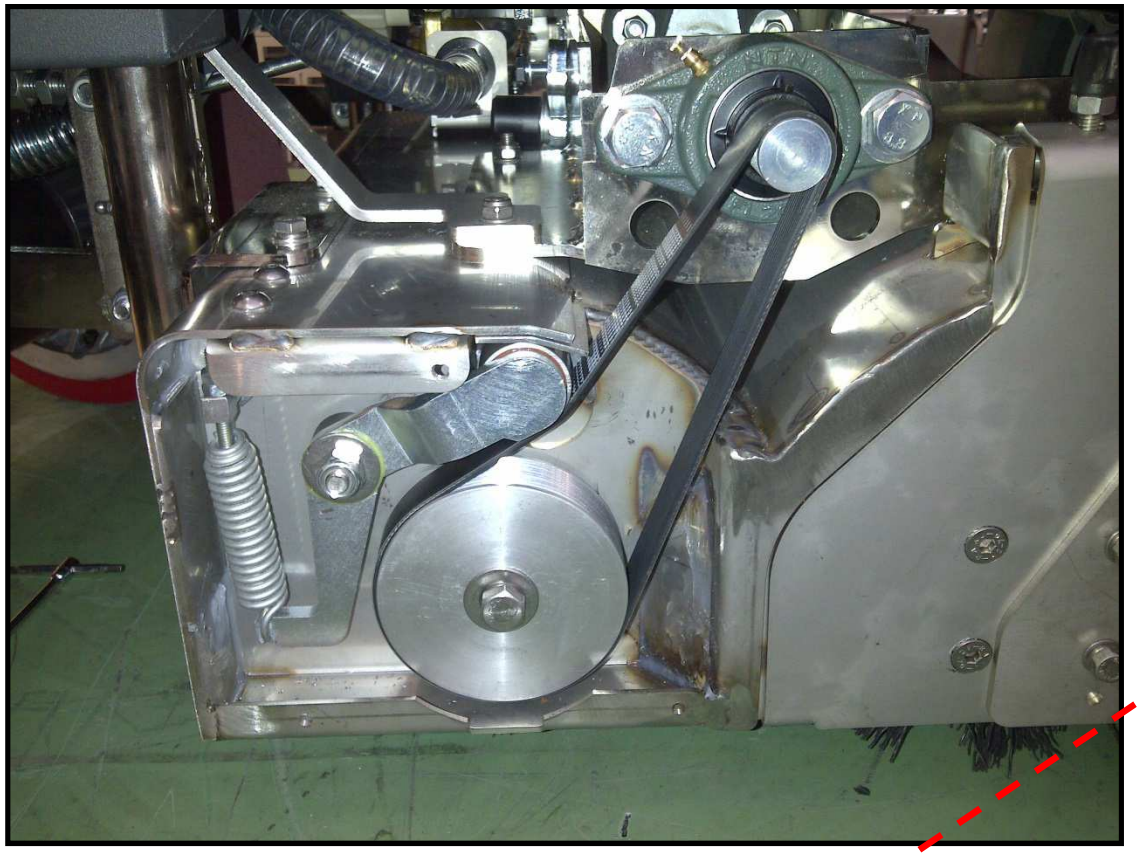
Brush Base Assembly
- SMG 120 -

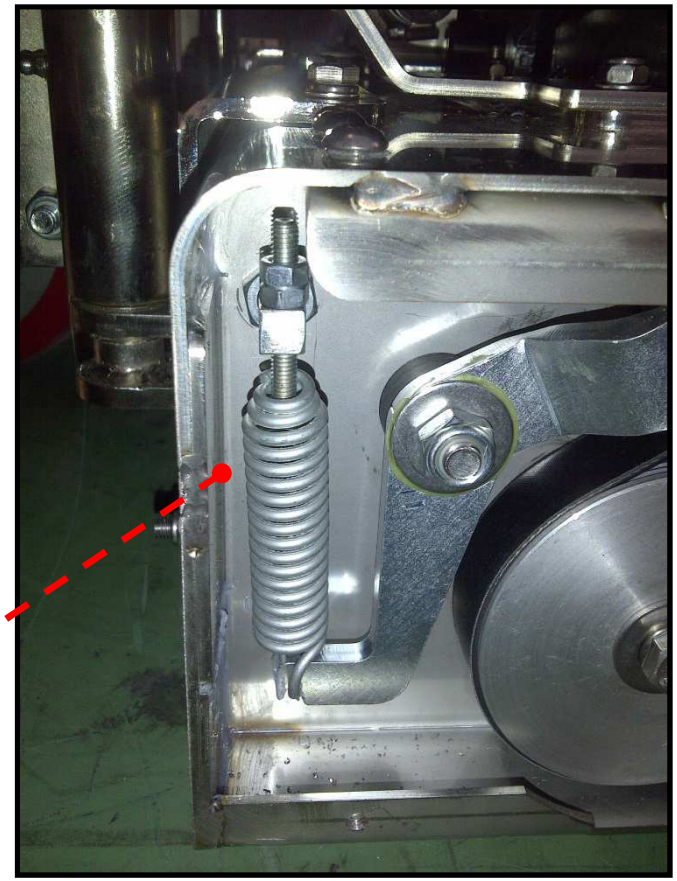


Side Movement

I-Drive allows to select the Side Movement of the brush base

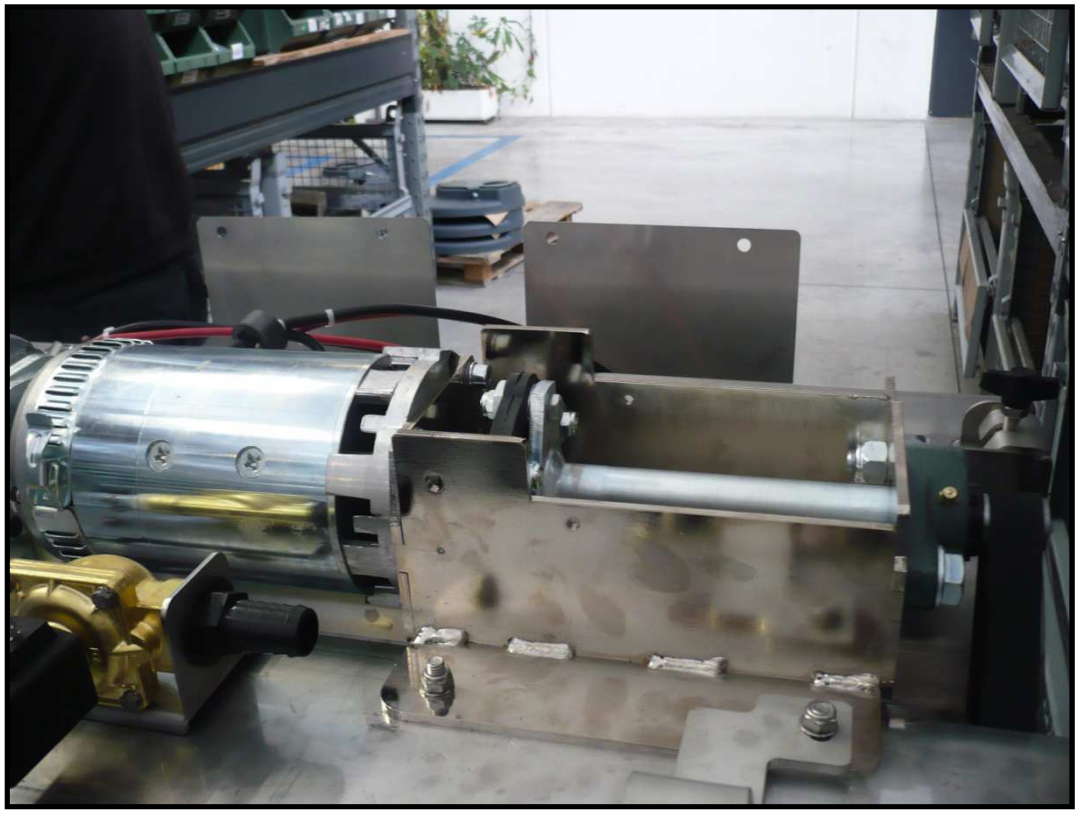
Brush Base Assembly
- SMG 130 -



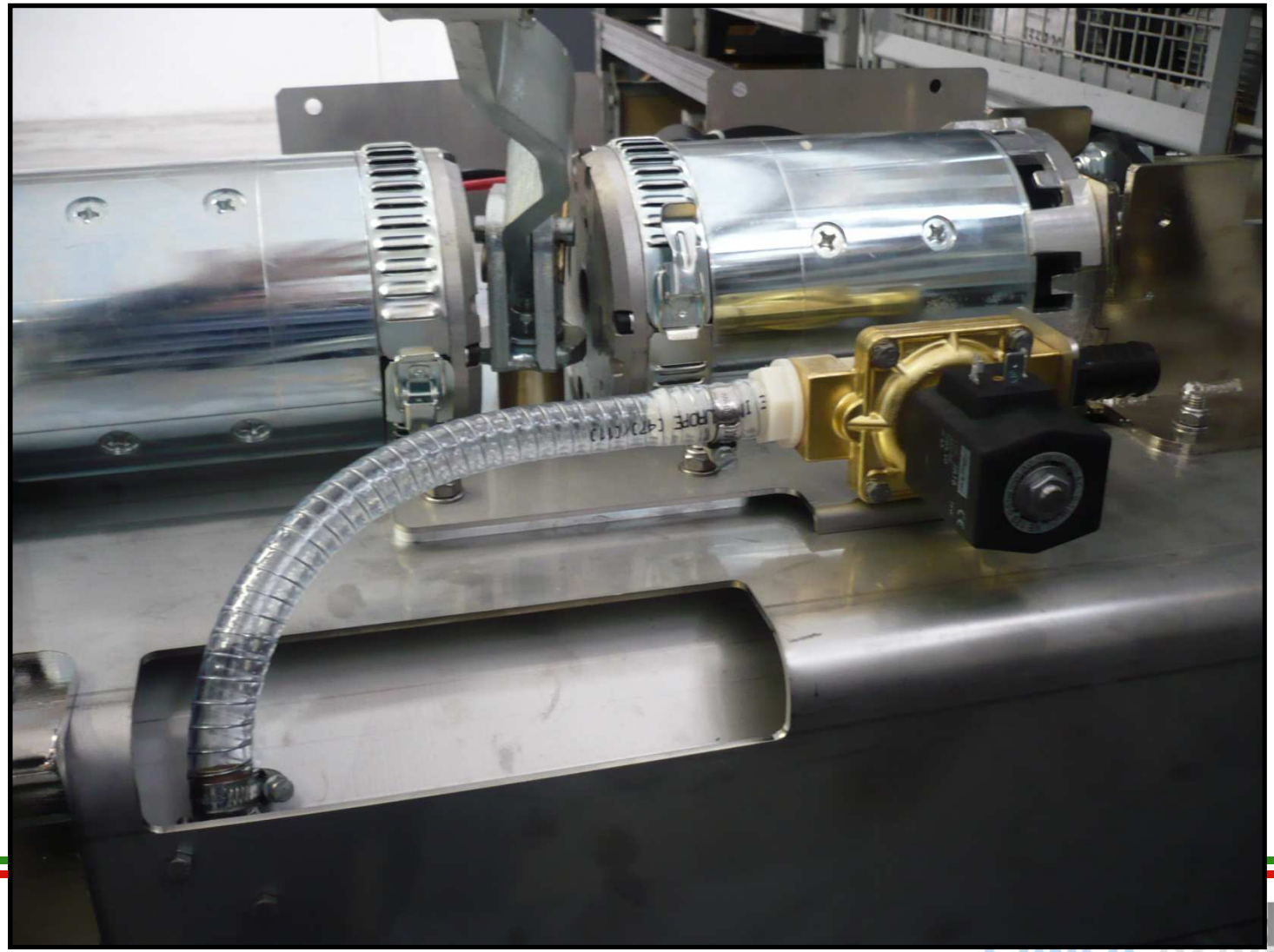


Tensioner

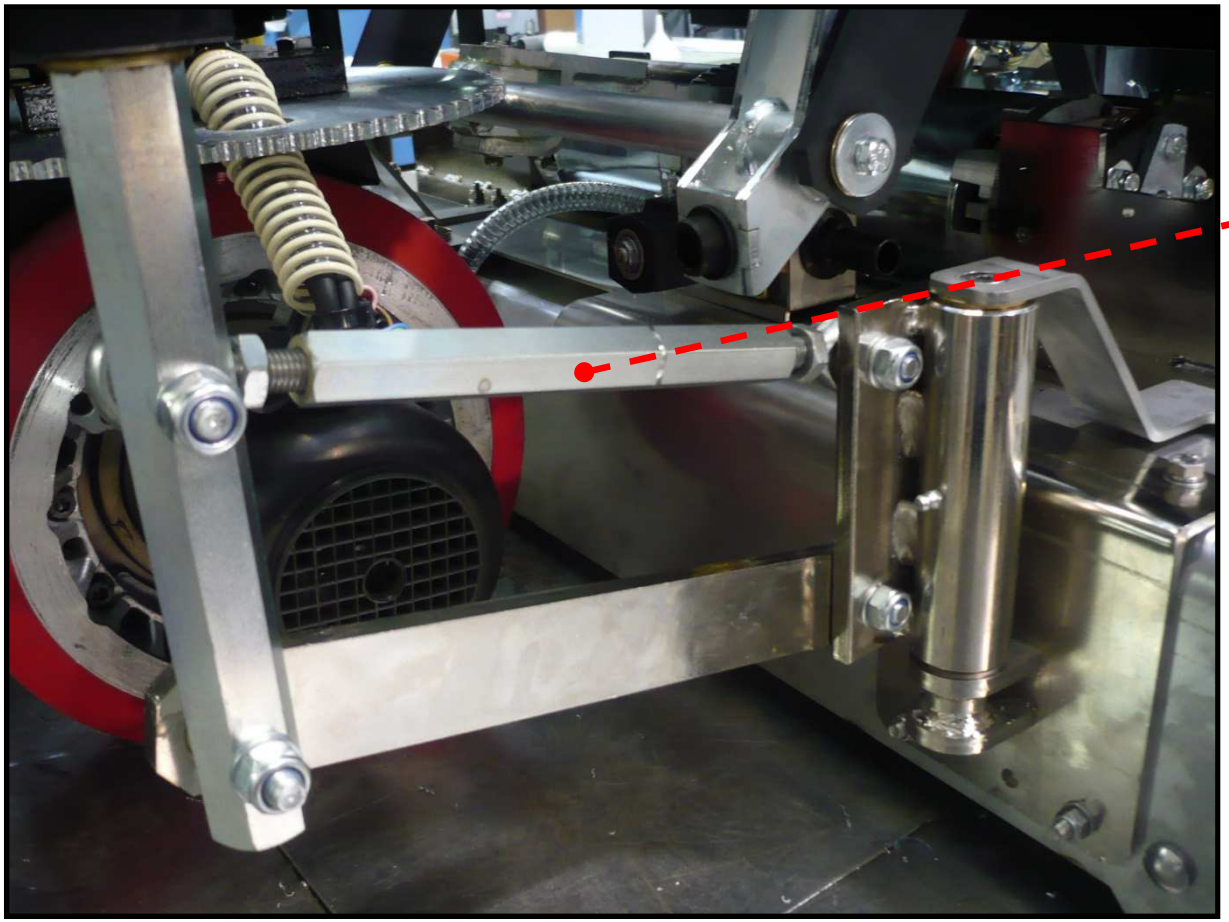
Brush Base Assembly
- SMG 130 -



Brush Base Assembly
- SMG 130 -

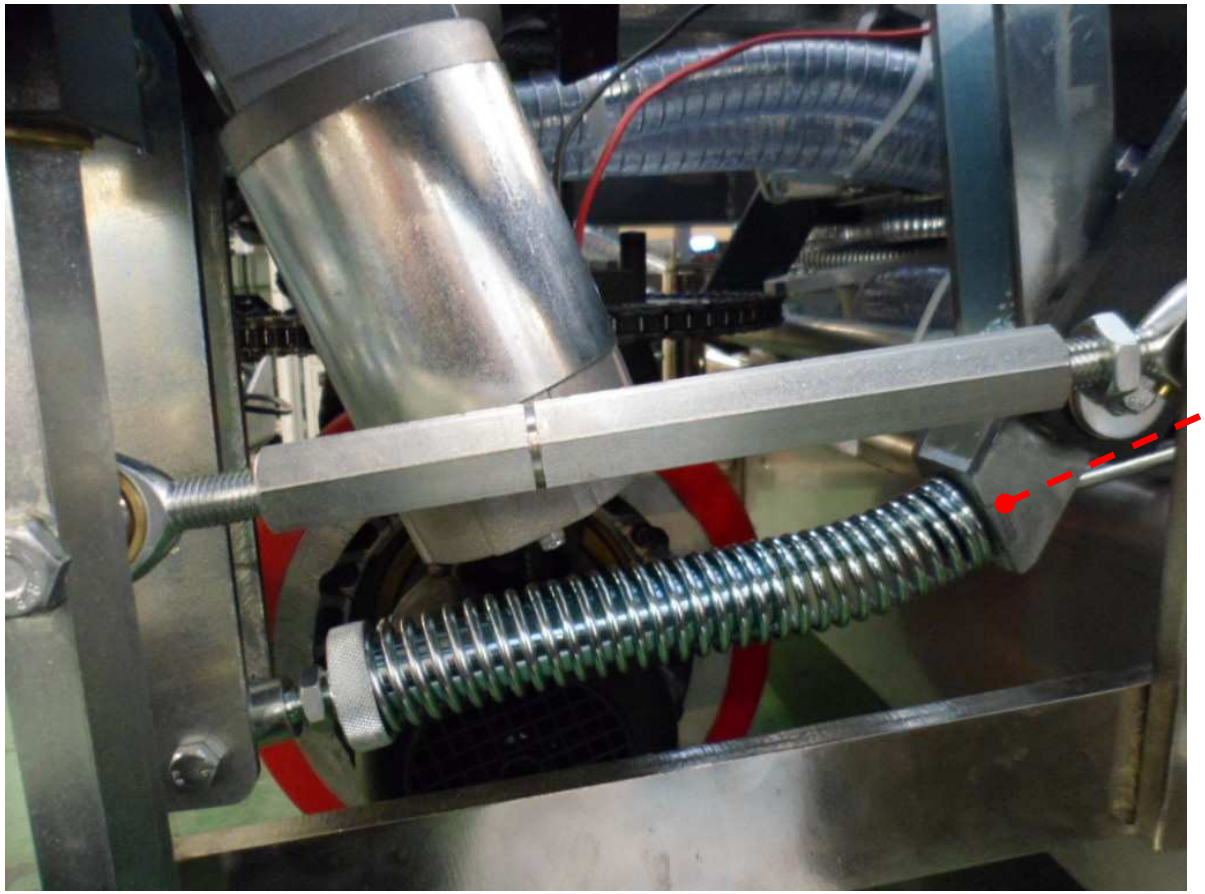


Brush Base Assembly
- SMG 130 -



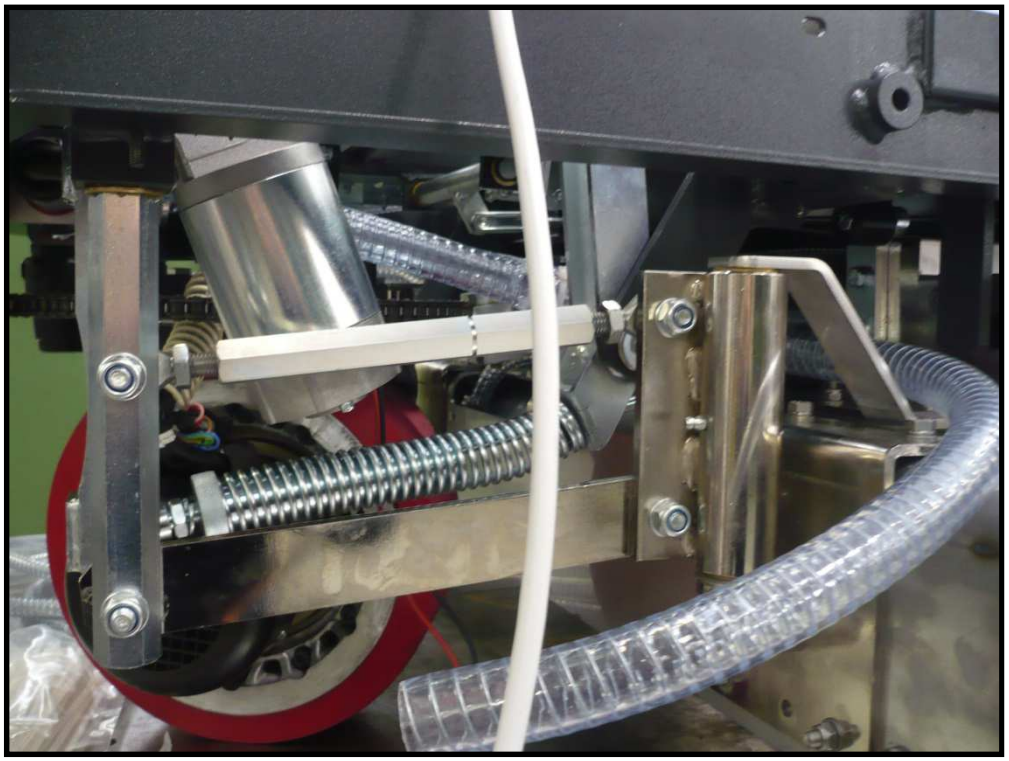
Inclination of the brush base

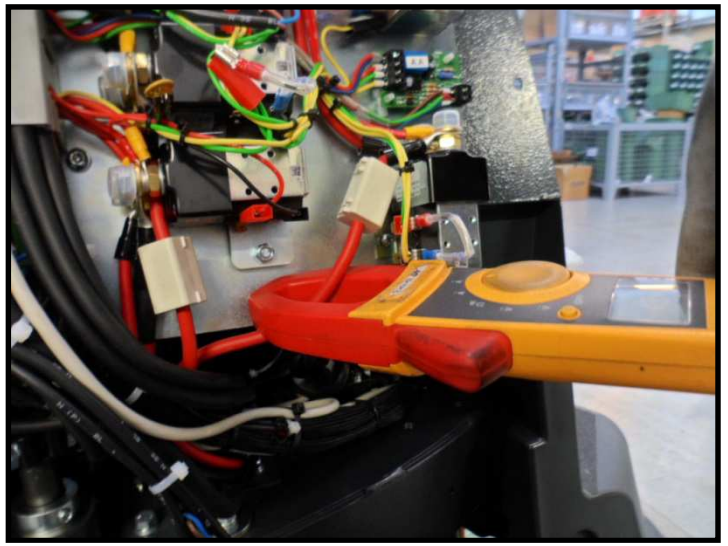
Brush Base Assembly
- SMG 130 -

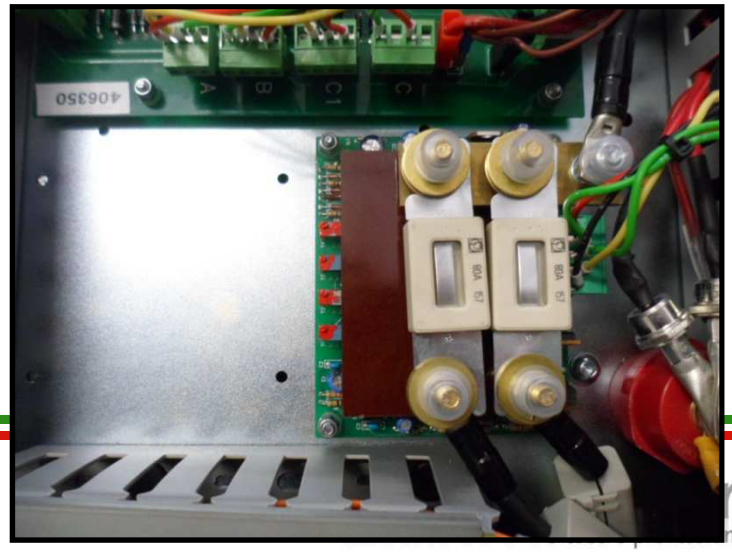


Pressure of the brush base

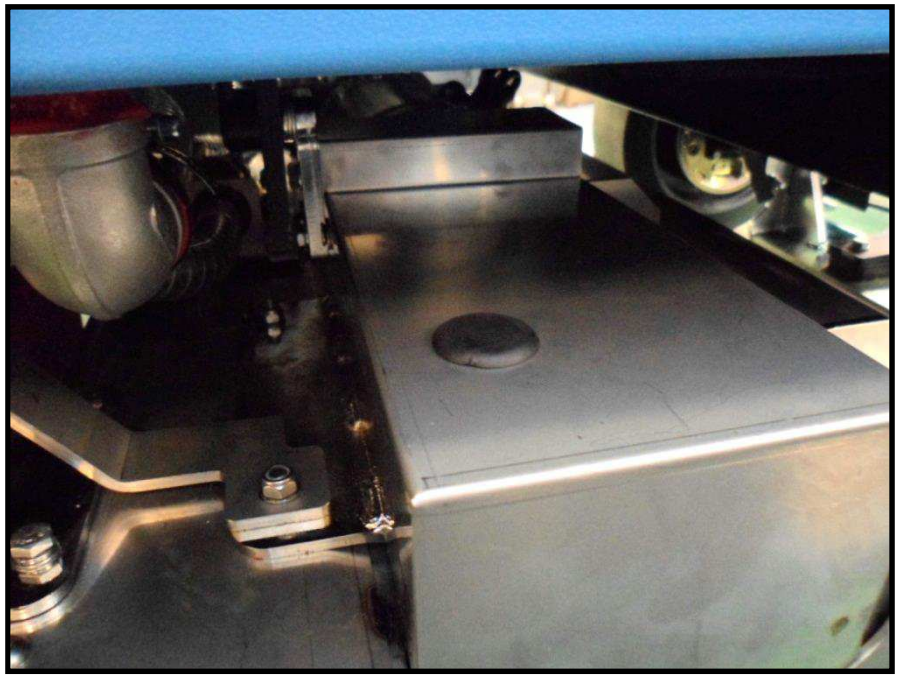
Brush Base Assembly
- SMG 130 -

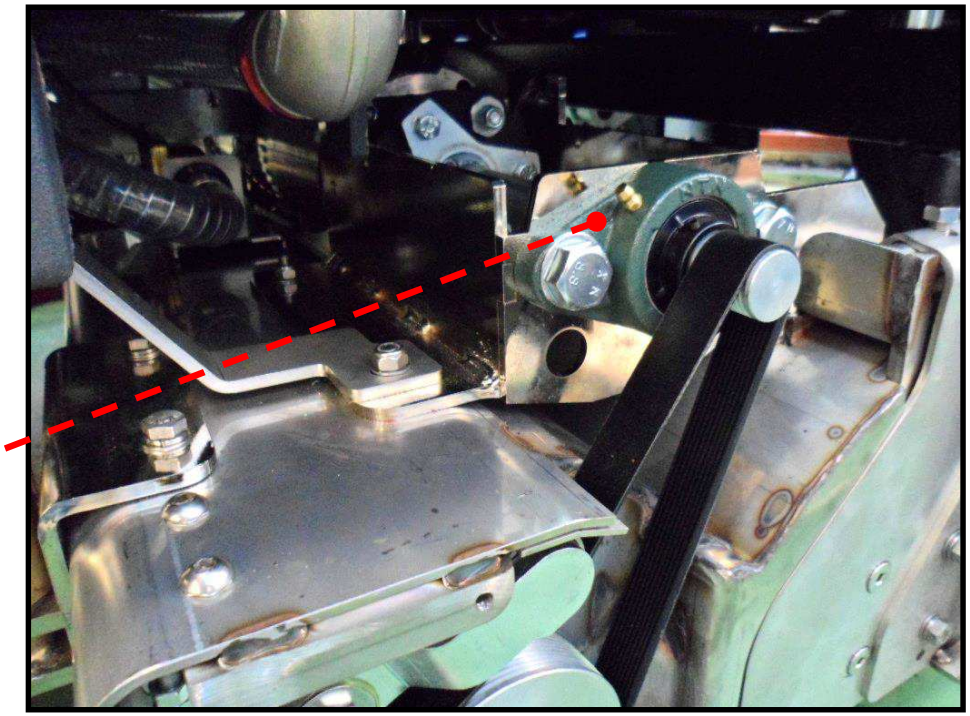




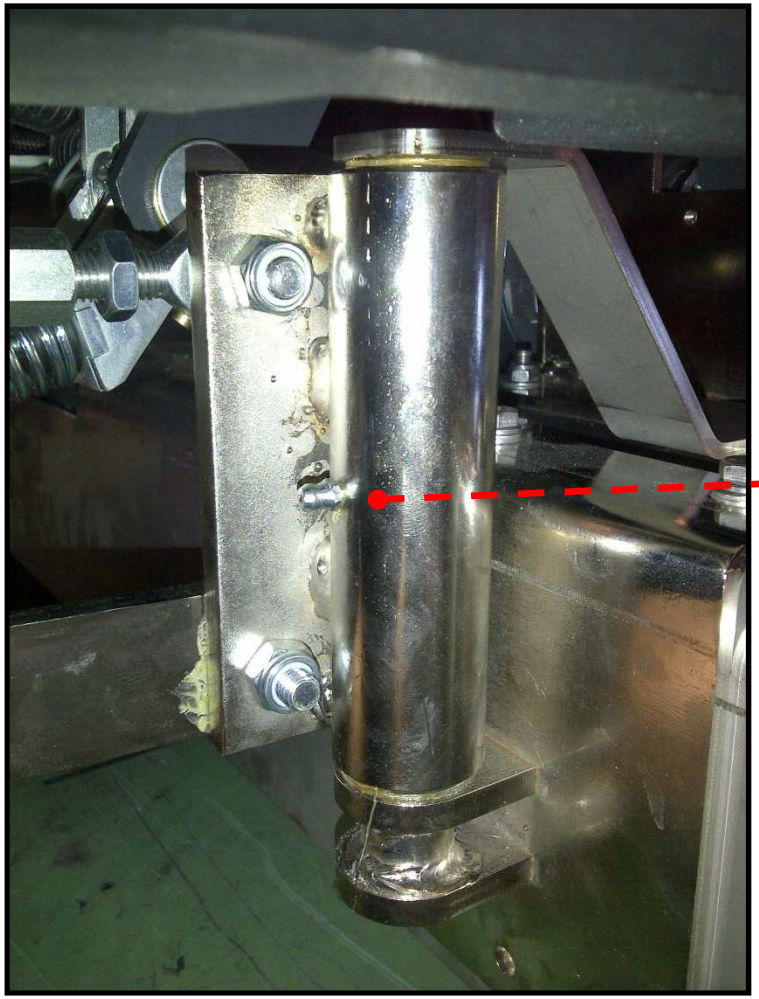


Brush Base Assembly
- SMG 130 -

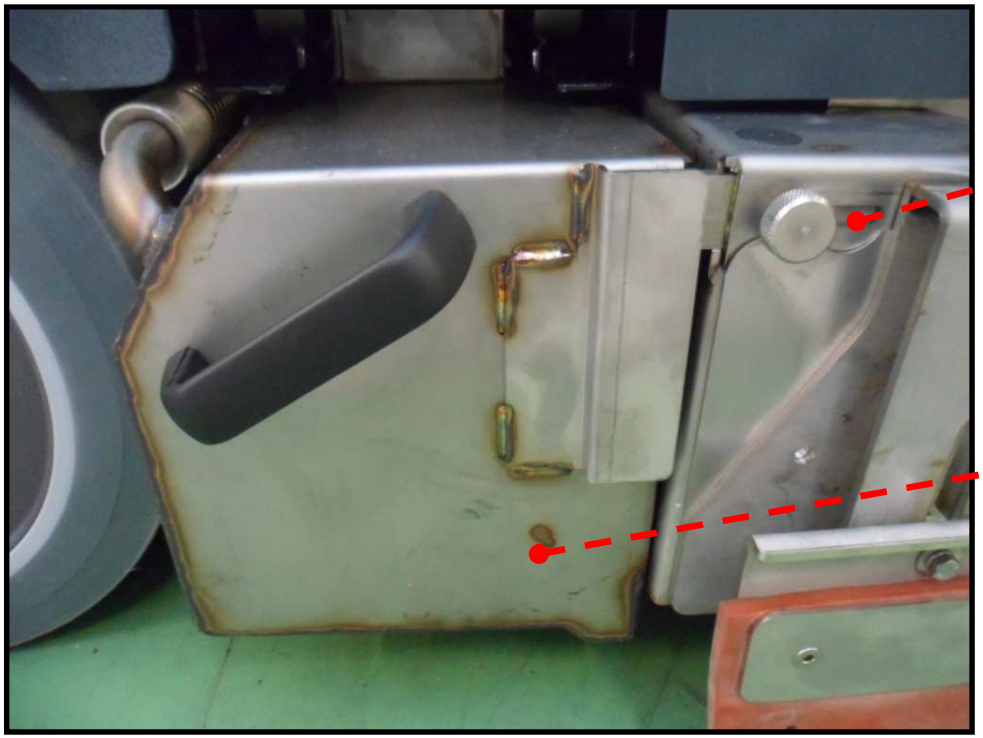




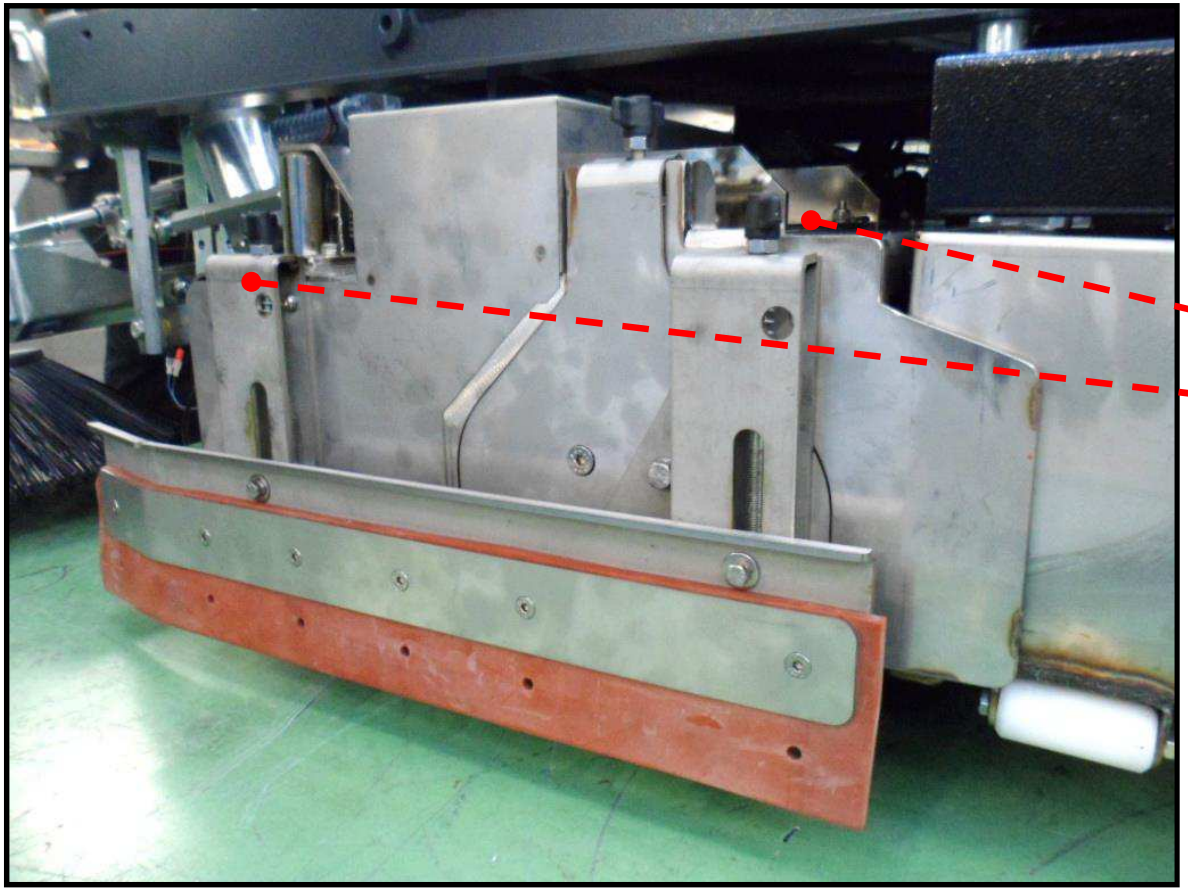
Brush Base Assembly
- SMG 130 -



Brush Base Assembly
- SMG 130 -

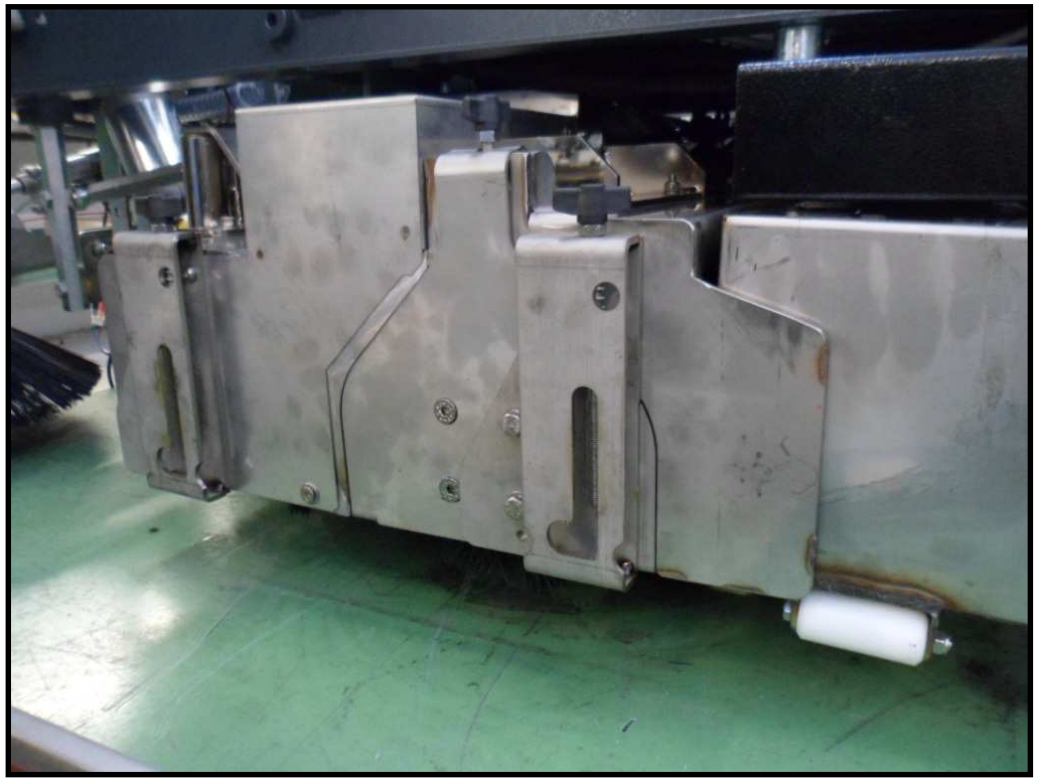


Brush Base Assembly
- SMG 130 -

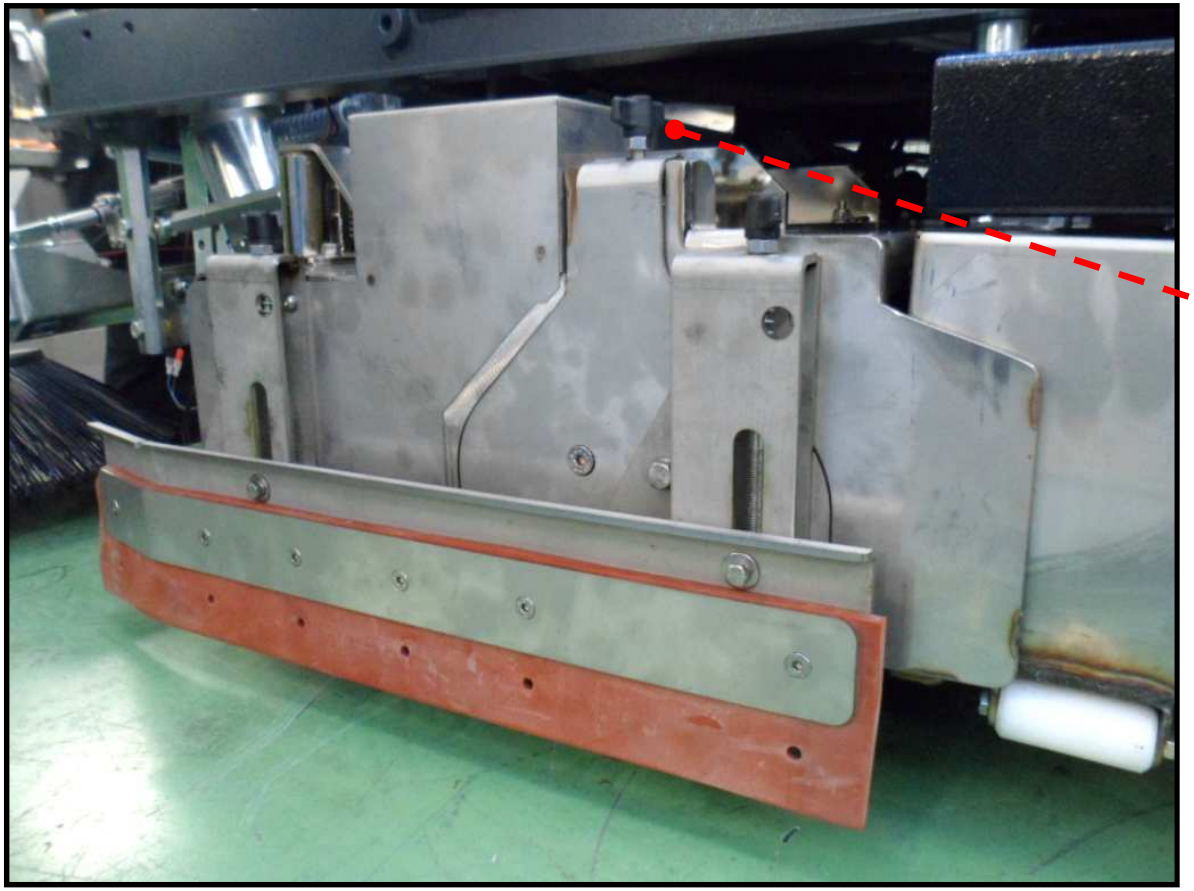


Fixing screws for the side splash guard

Brush Base Assembly
- SMG 130 -



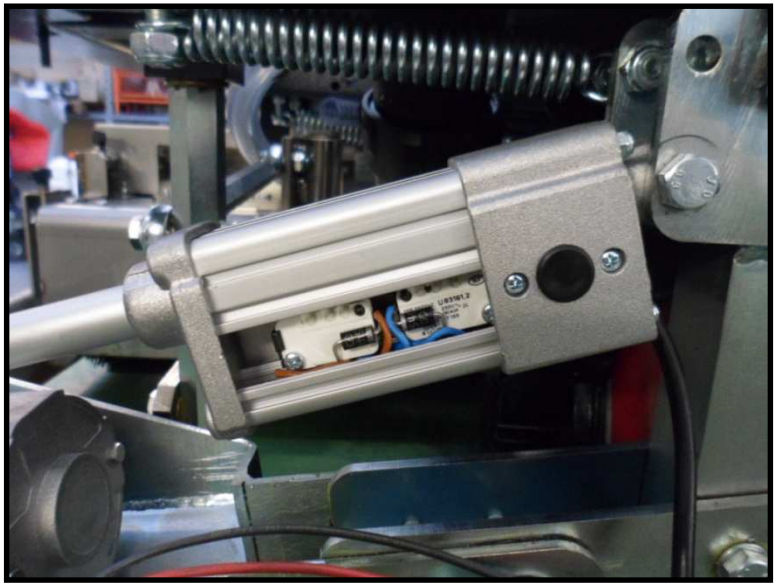
Brush Base Assembly - SMG 130 -



Fixing screw for the cylindrical brush

Corso Tecnico

Brush Base Assembly
- SMG 130 -



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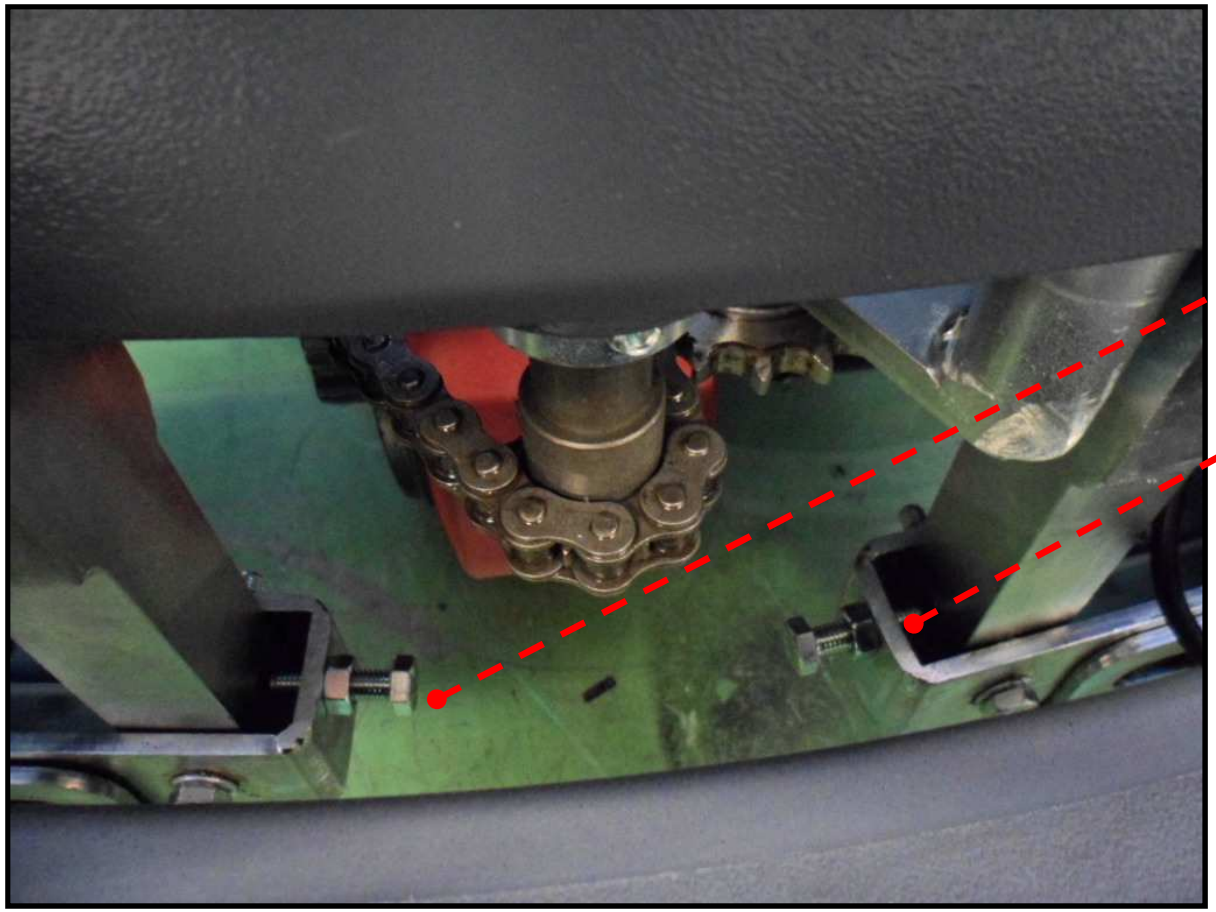
Brush Base Assembly
- SMG 130 -

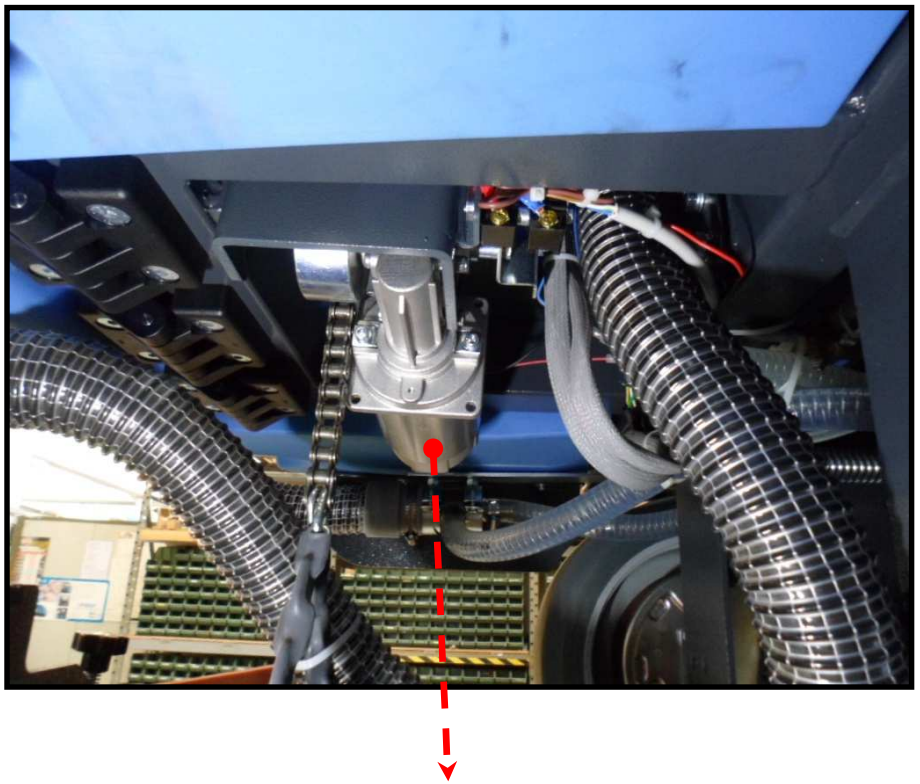


Adjustment – Inclination of the side brush

Corso Tecnico

Brush Base Assembly
- SMG 130 -

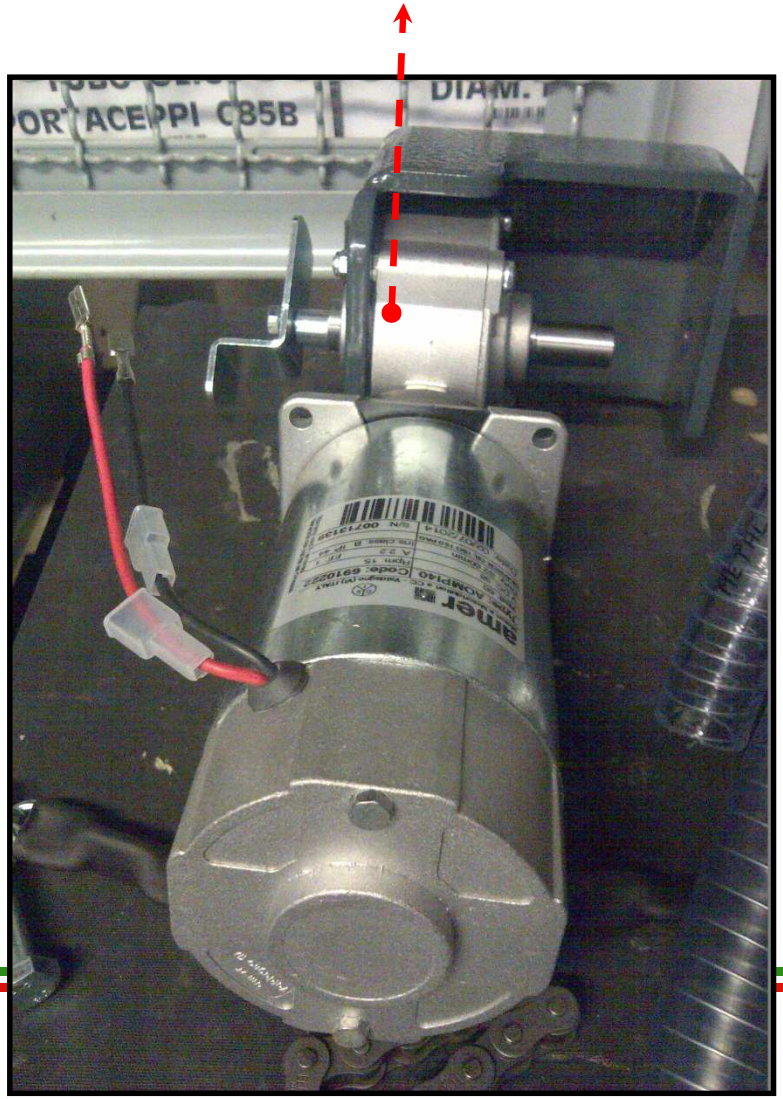
Squeegee Assembly

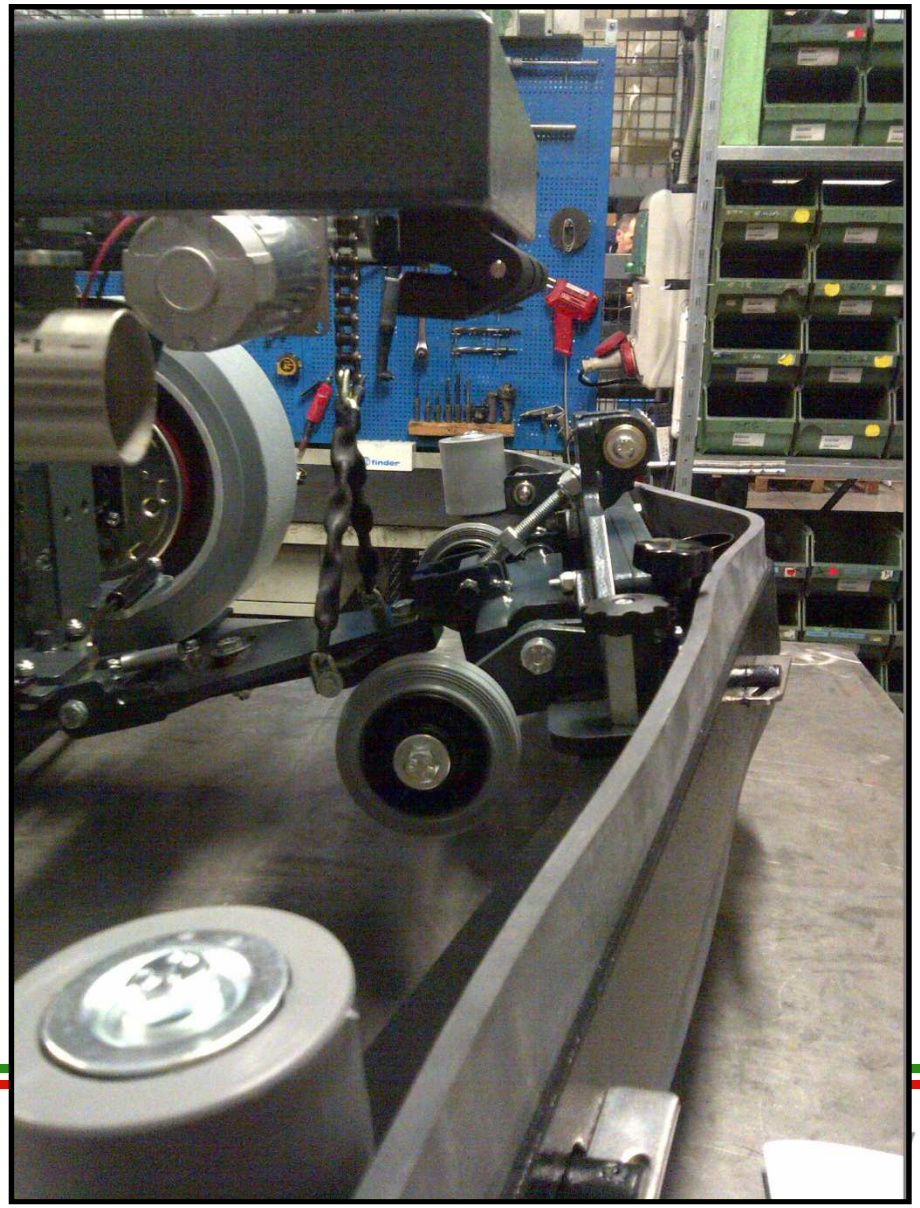


Actuator - Squeegee

Squeegee Assembly

Actuator - Squeegee

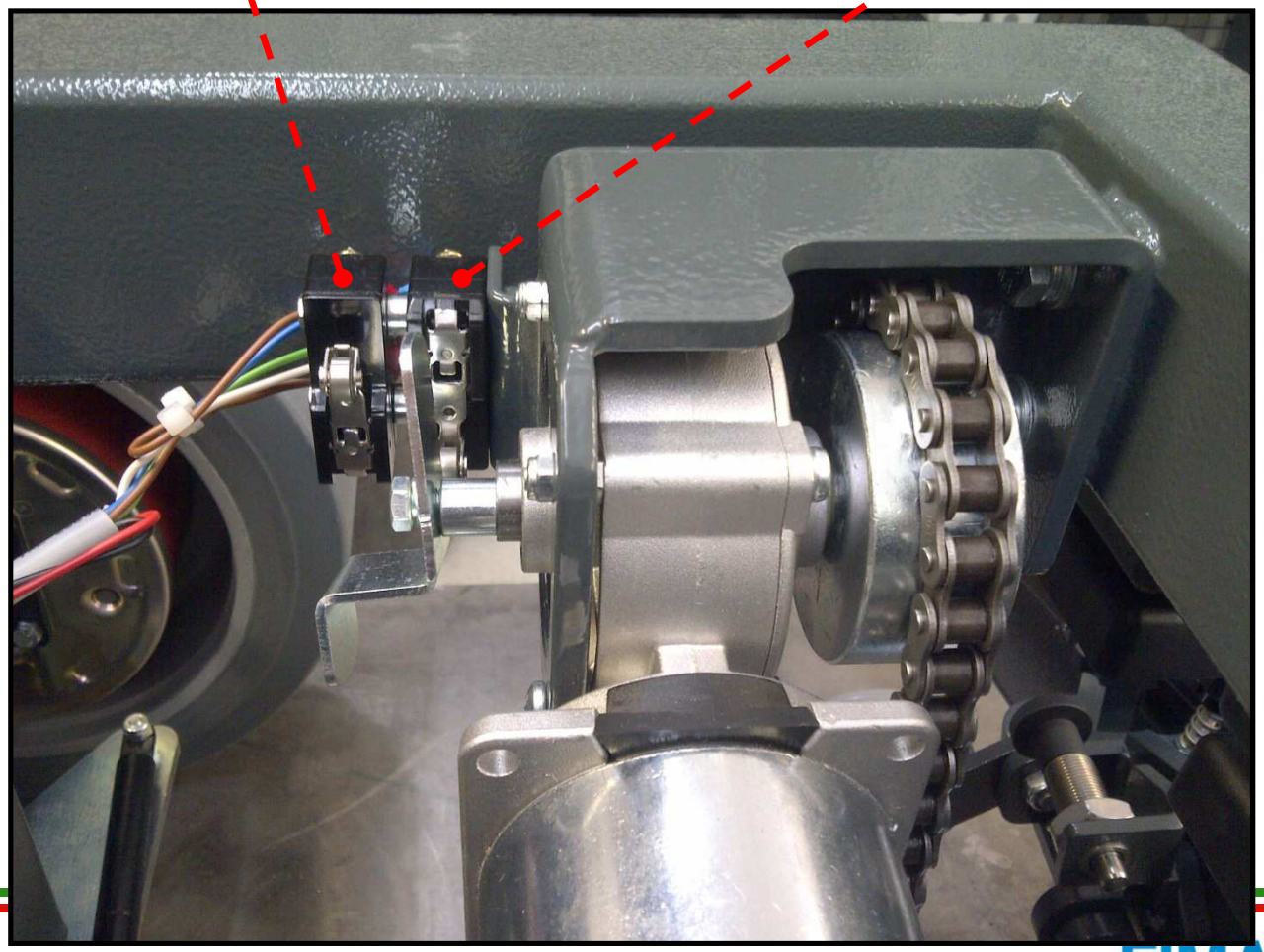




Squeegee Assembly

Micro Switch – Squeegee Down

Micro Switch – Squeegee Up

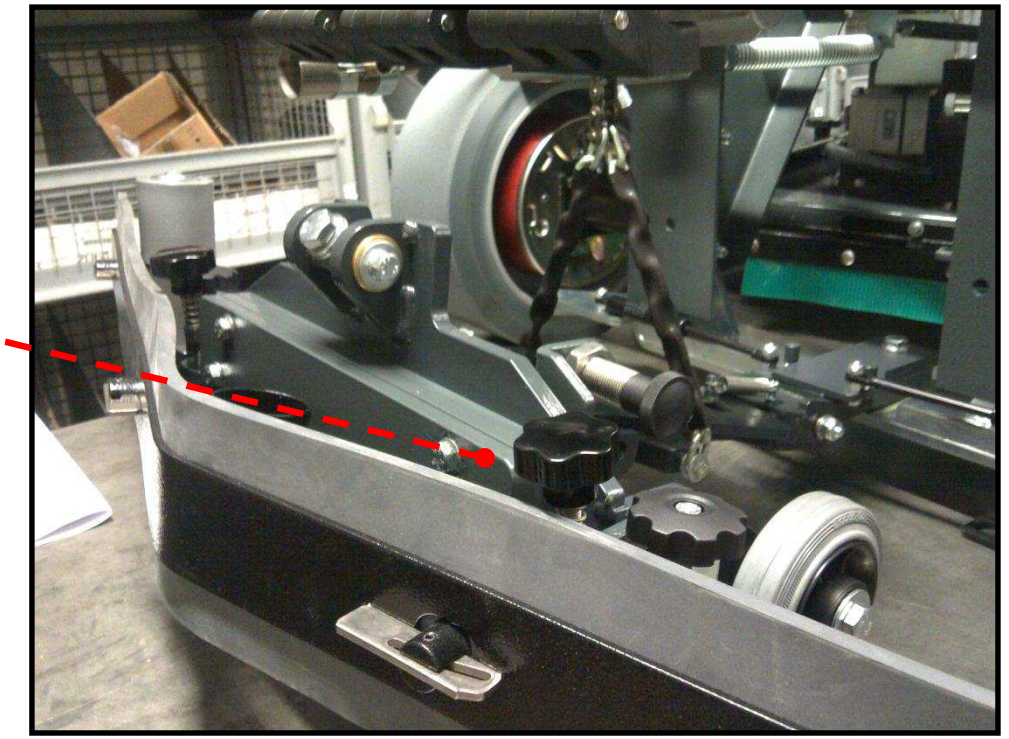


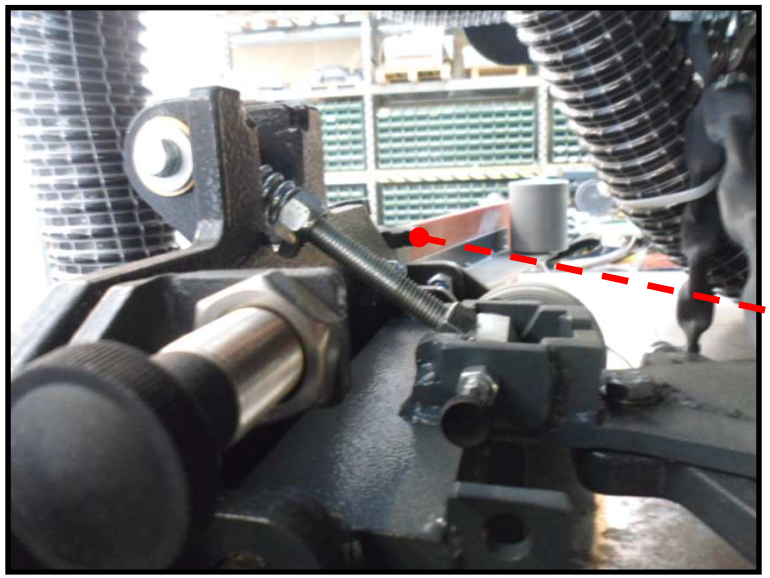
Sqeegee Assembly

Rotation of the squeegee

Squeegee Assembly

Adjustment - height

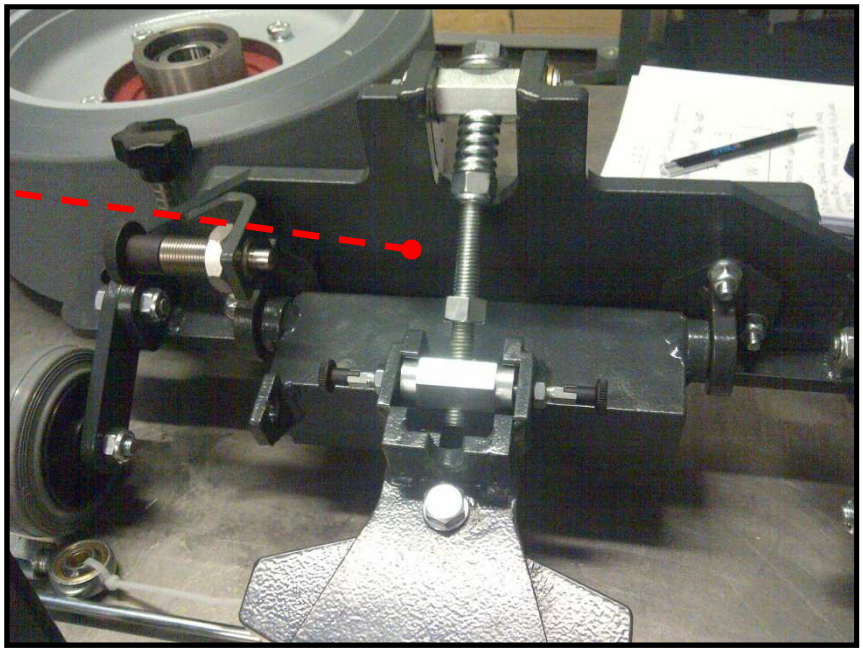


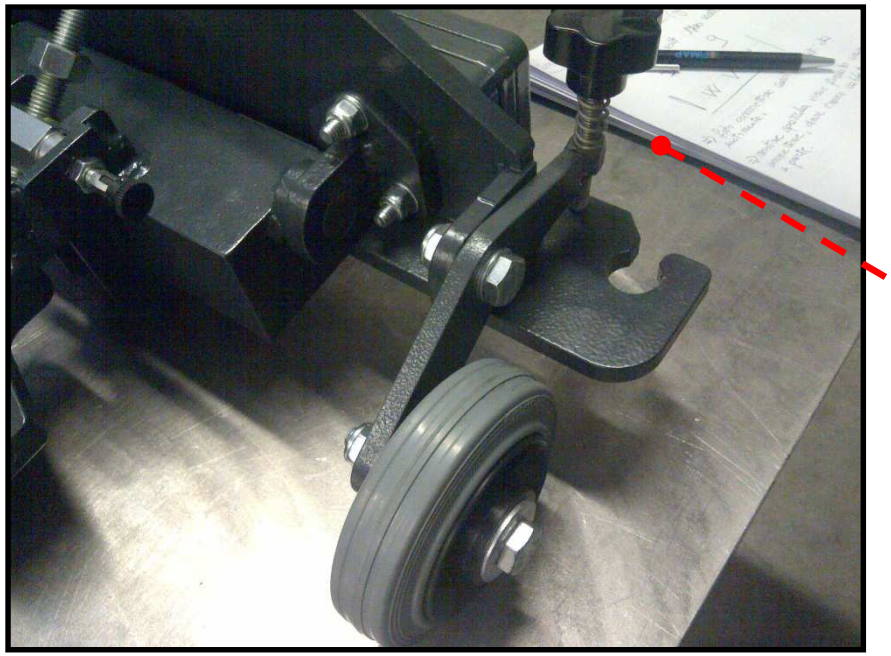


Adjustment - inclination

Squeegee Assembly

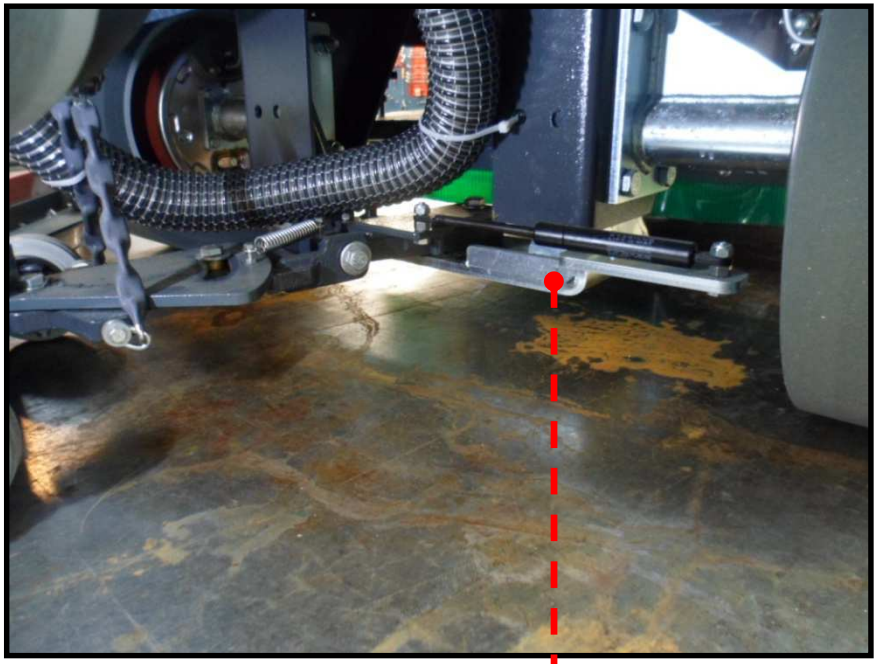
Adjustment - Inclination

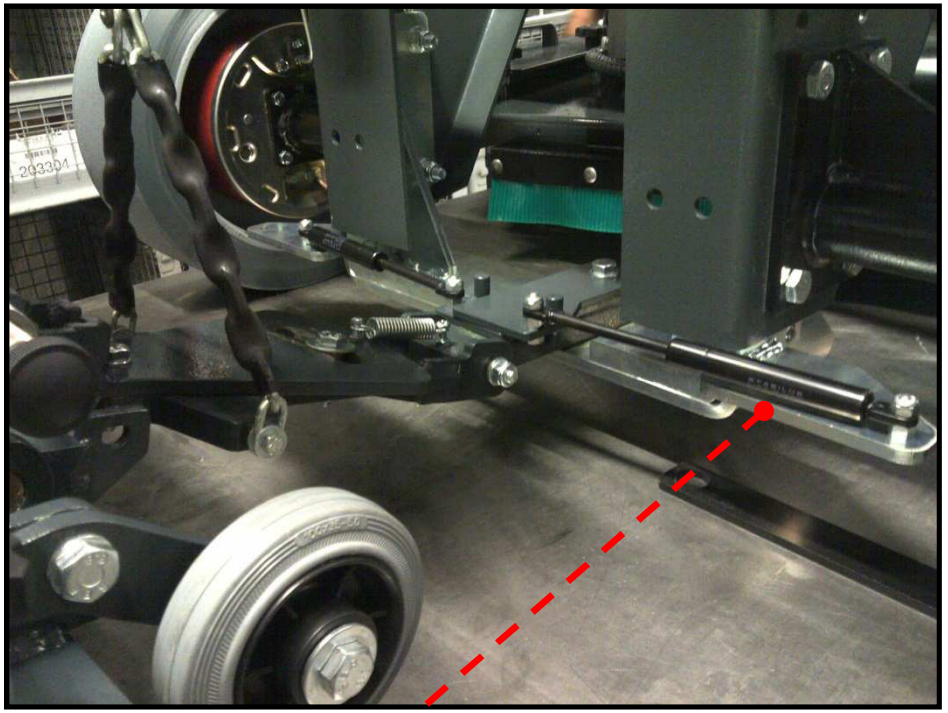




Adjustment - Height

Squeegee Assembly

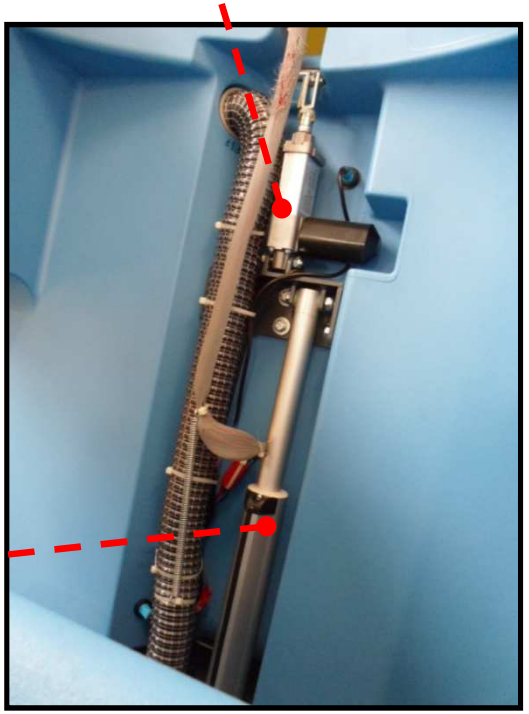




Gas Shock Absorber – It amortizes any collision and the squeegee body goes back in its original posiiton.

Suction Group

Actuator – Opening and Closing of the Suction Cover



Actuator – Opening and Closing of the Recovery Tank

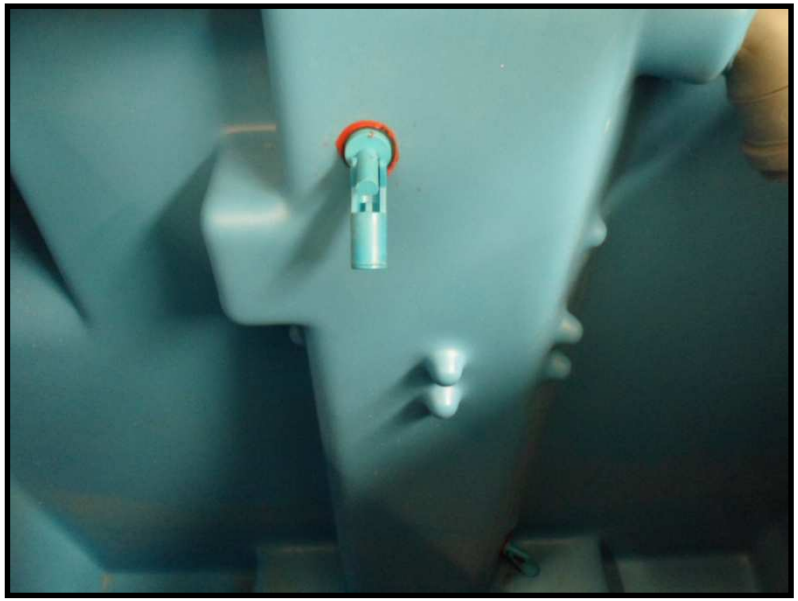
Suction Group

The recovery tank can be reversed only if it is empty and if there is no operator on the machine.

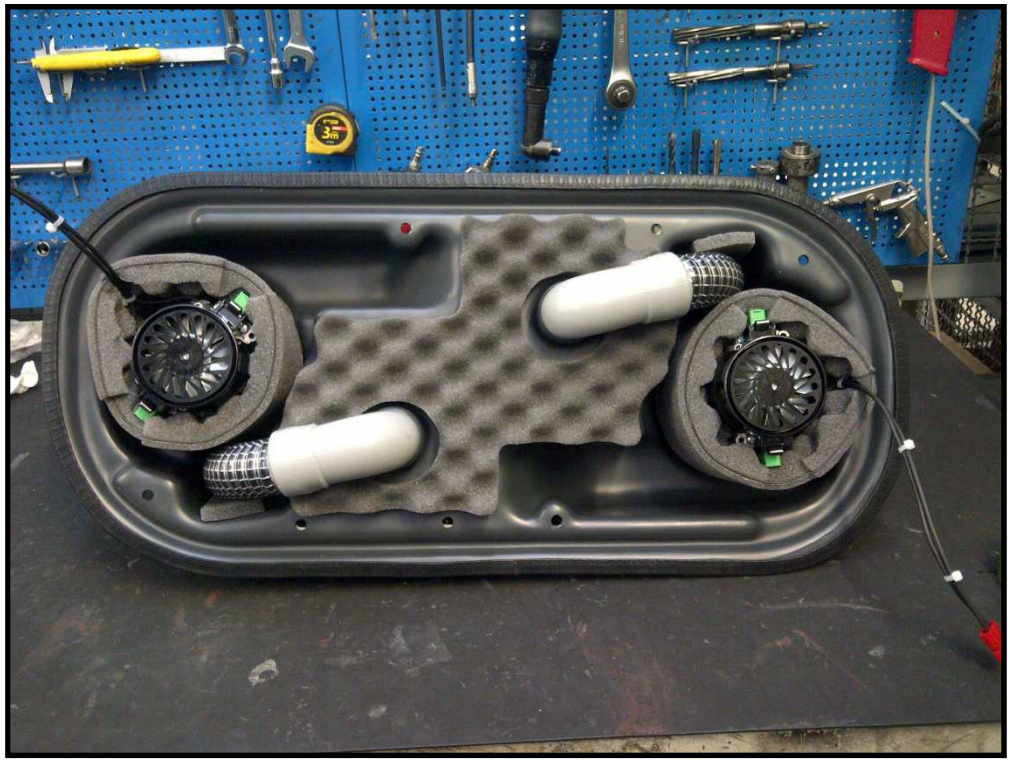
Suction Group

Contatc Breaker 25 A – Suction Motor

Suction Group

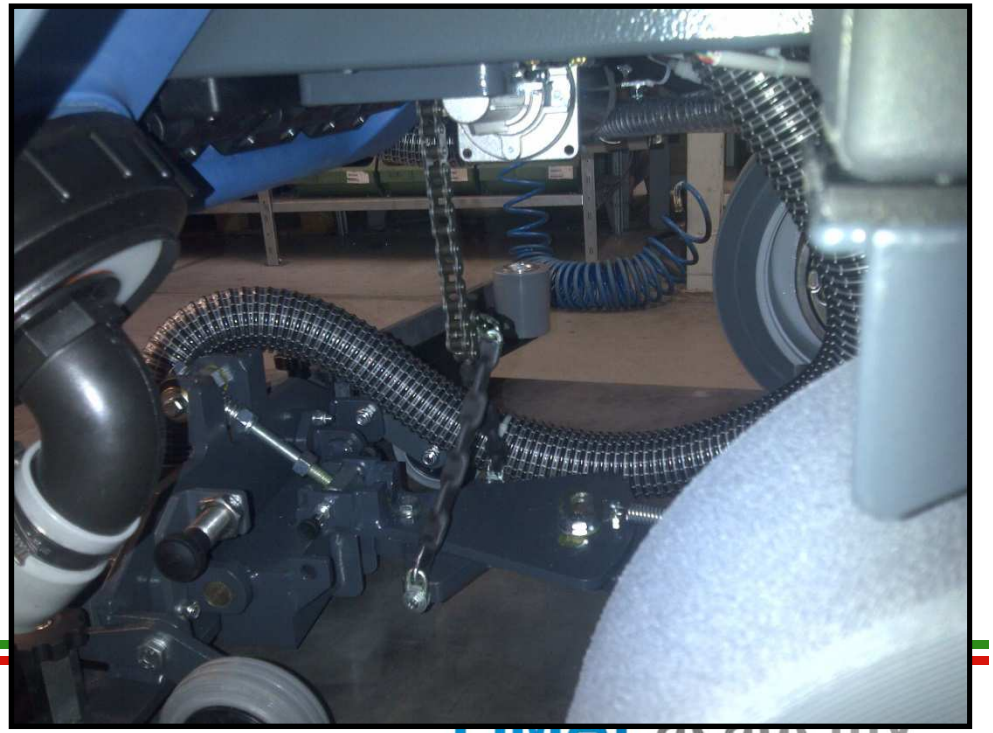


Suction Group



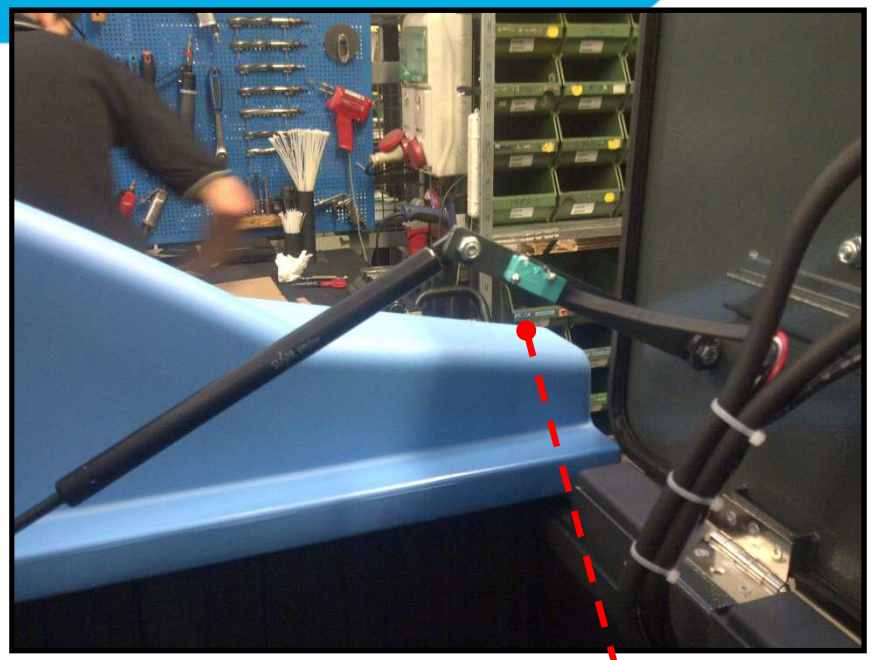
Suction Group

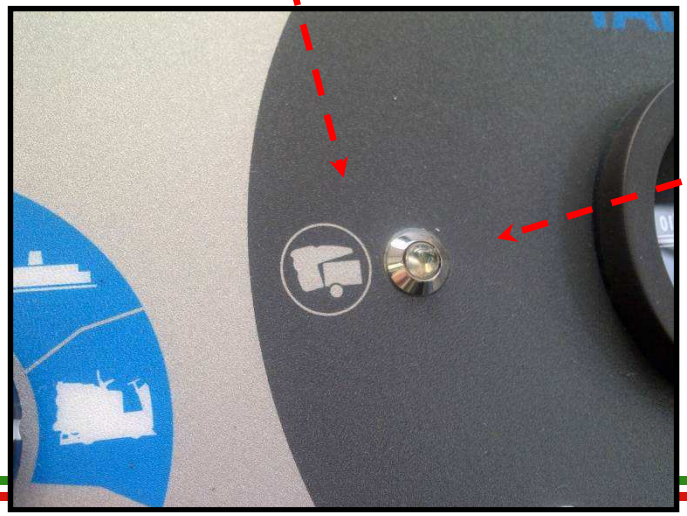
Suction Hose

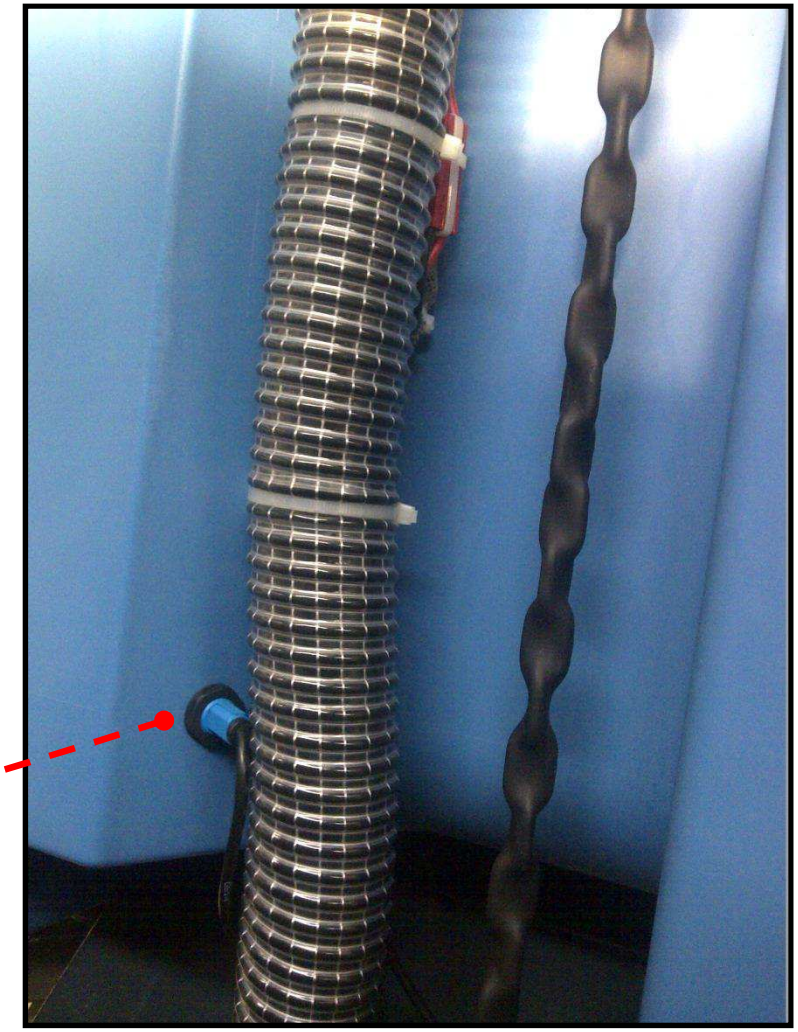


Suction Group

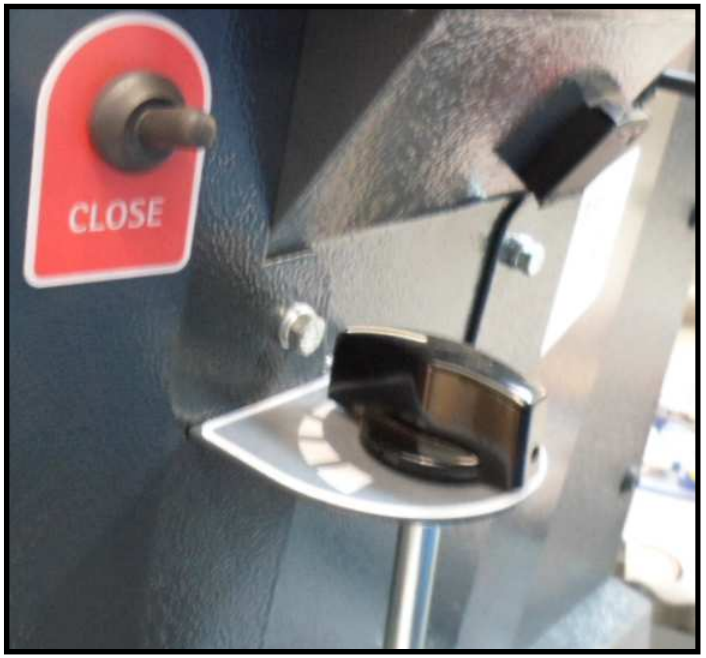
Suction Group



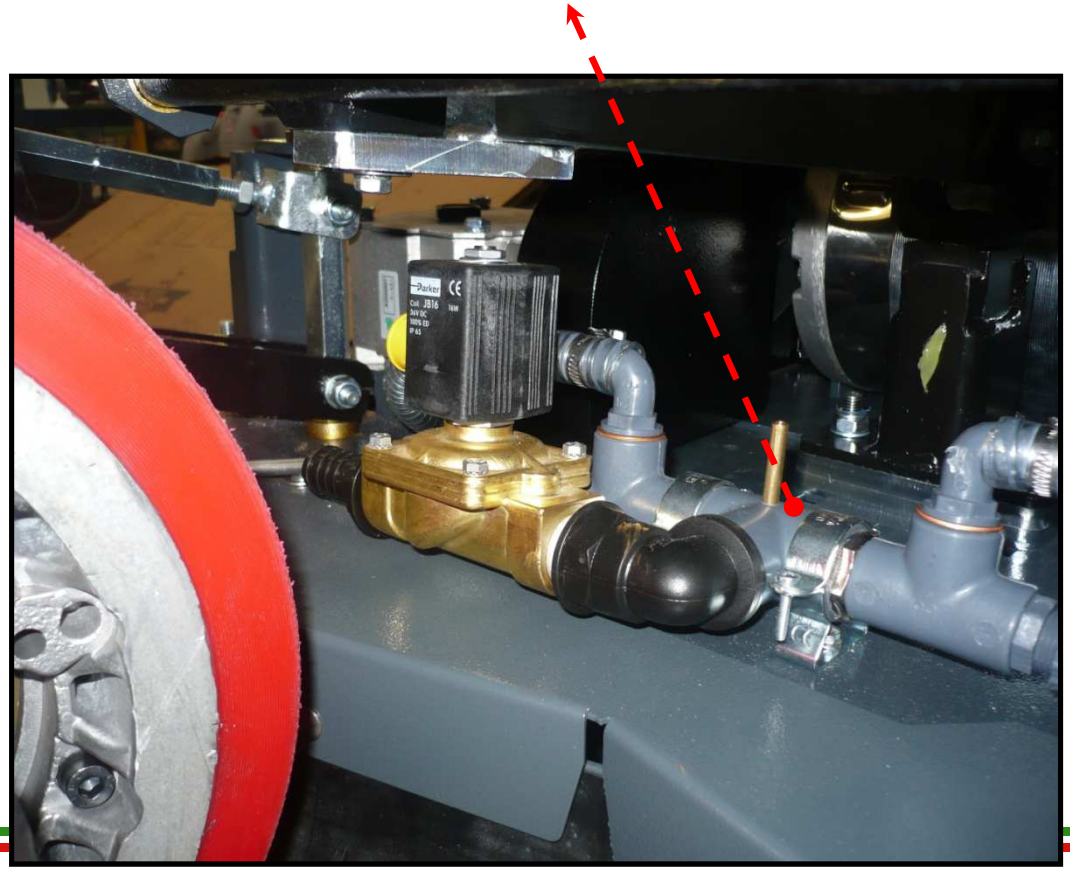




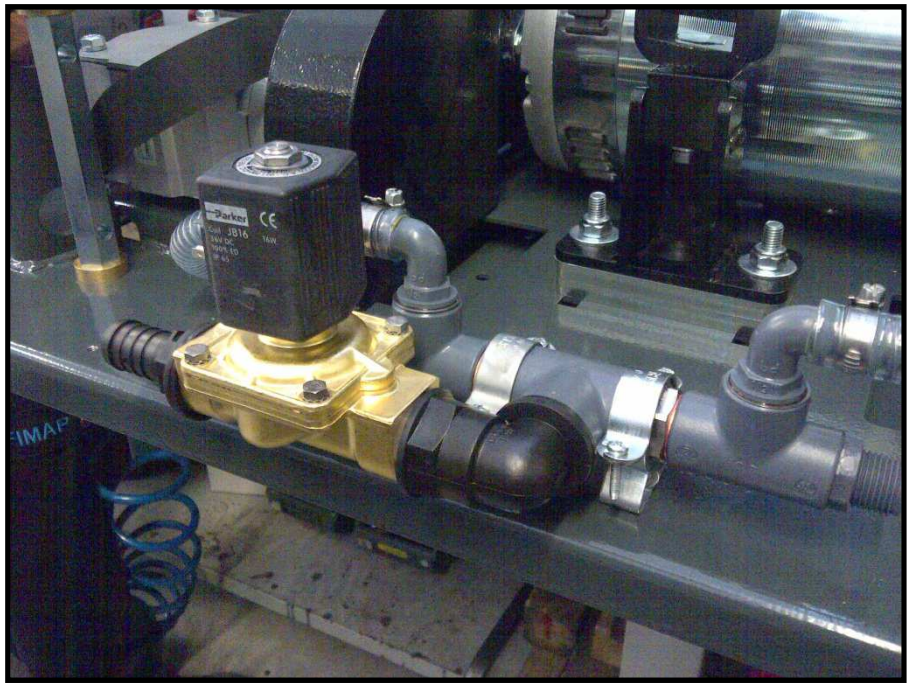
Idric System
- SMG 120 -



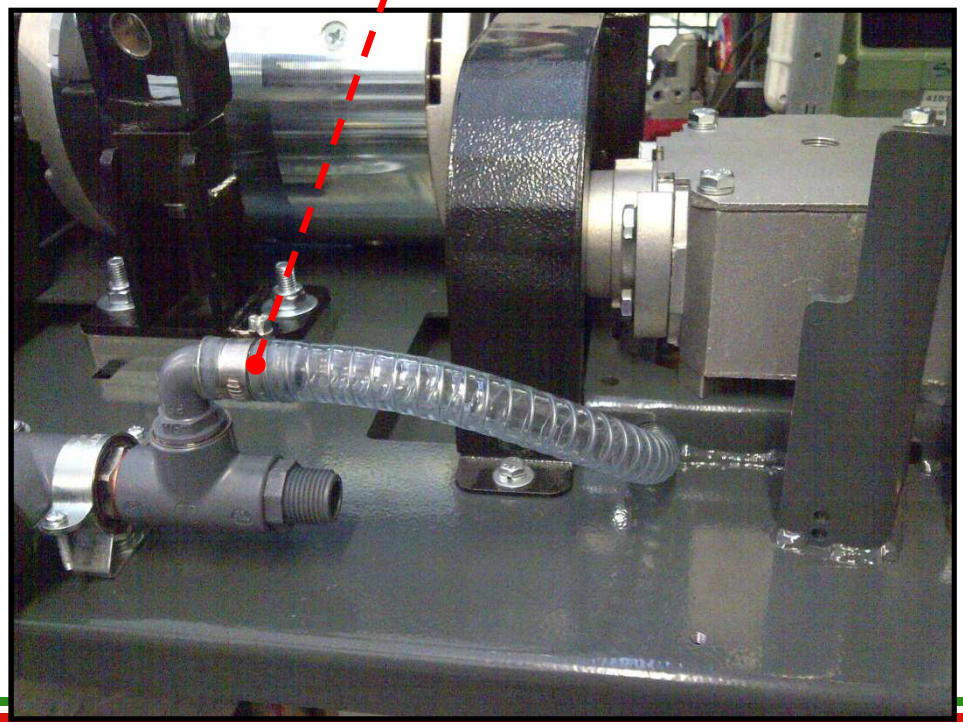
Water to the brush base



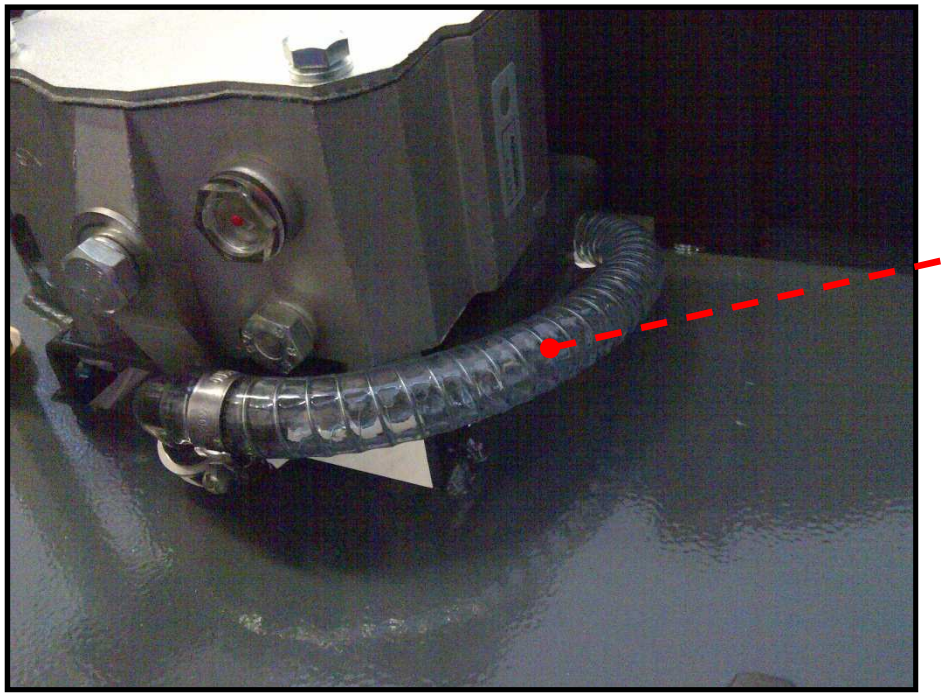
Idric System
- SMG 120 -



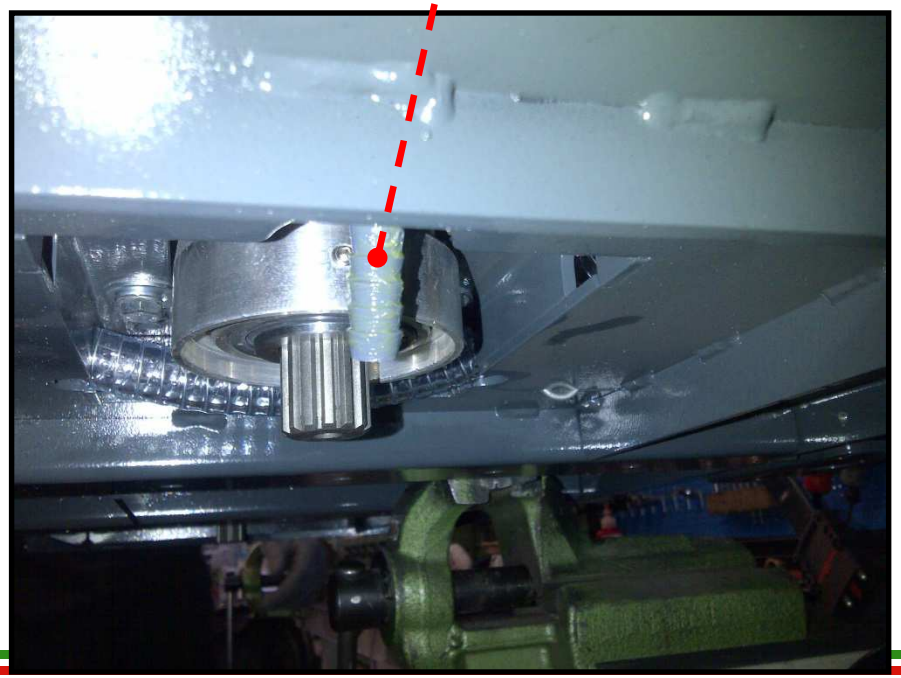
Water to the brush base



Idric System
- SMG 120 -



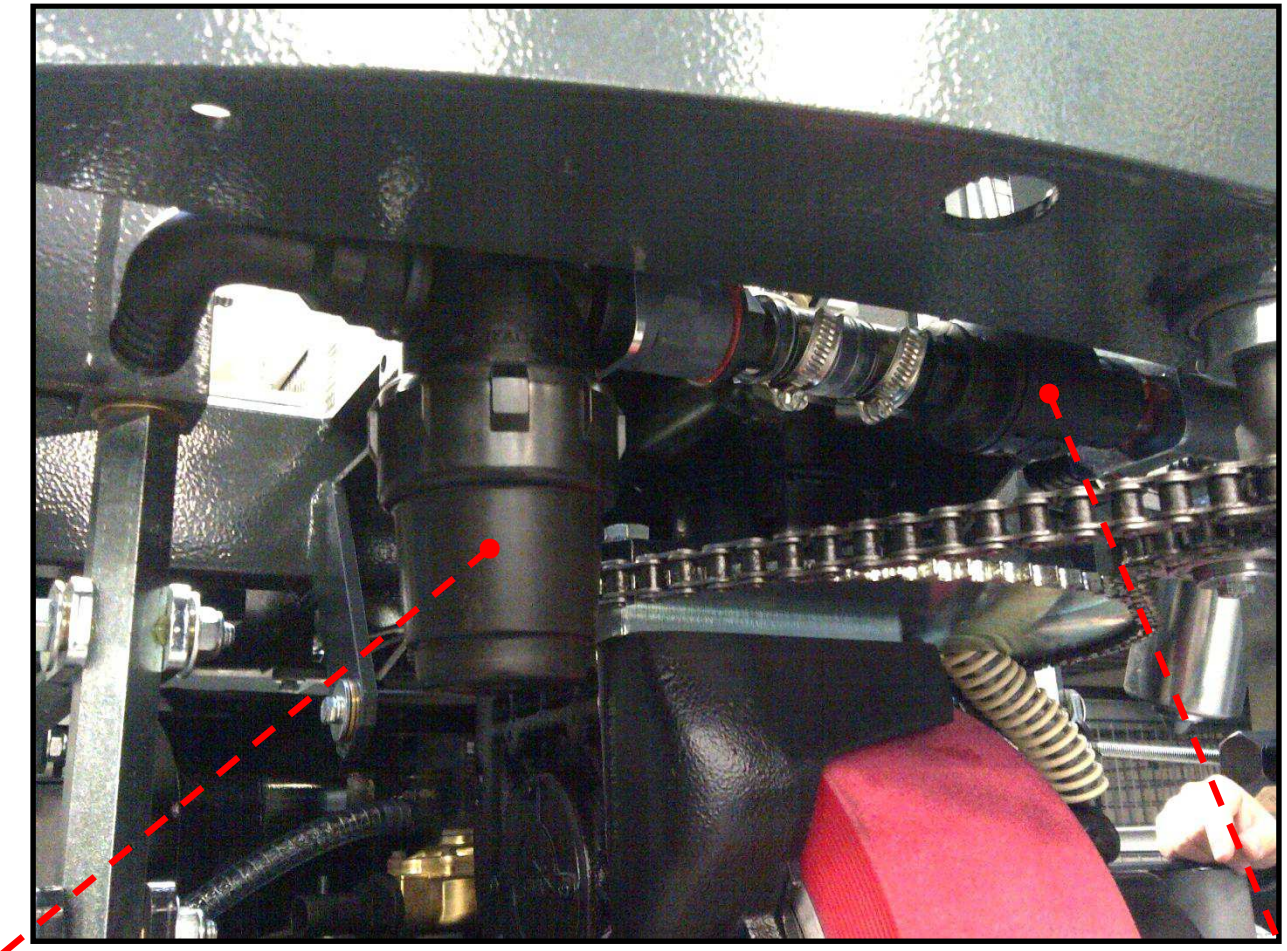
Water to the brush base



Idric System
- SMG 120 -

Water to the brush base

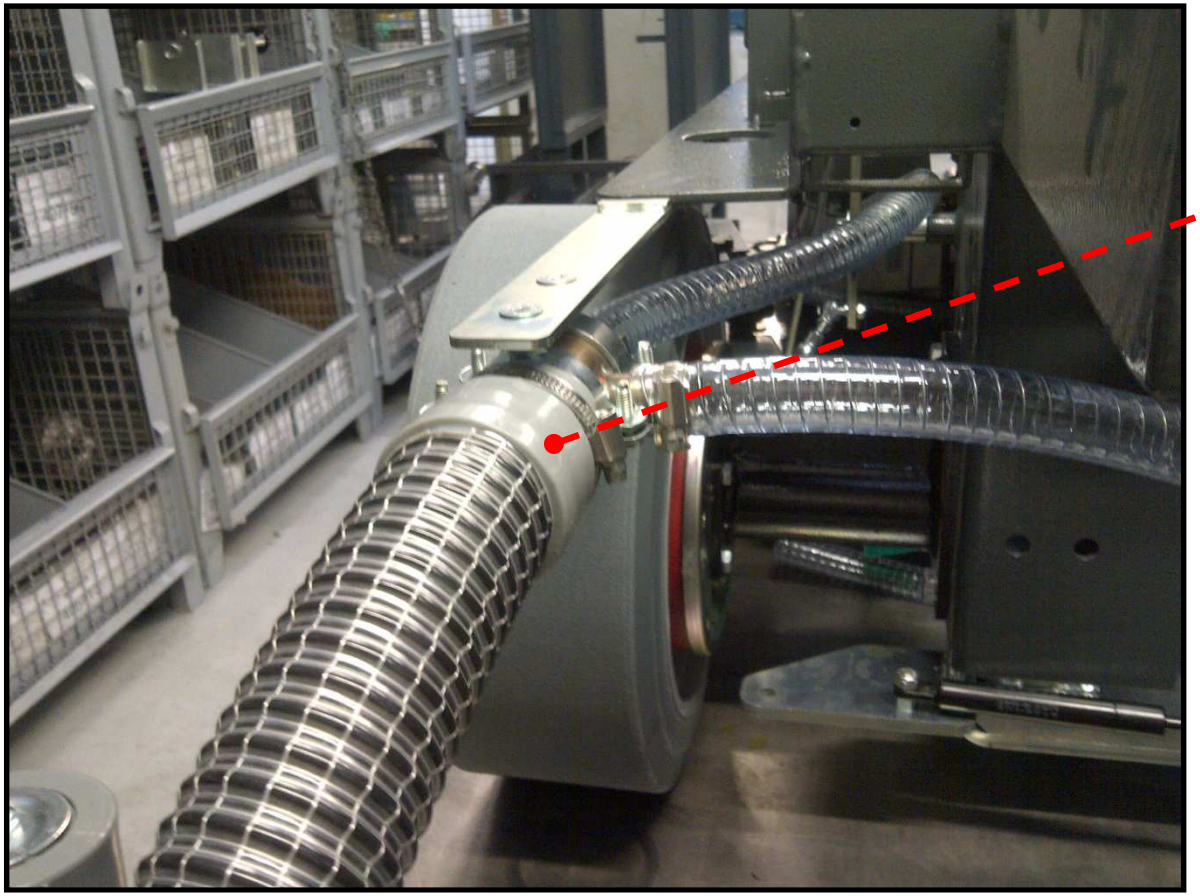
Idric System



Water Filter

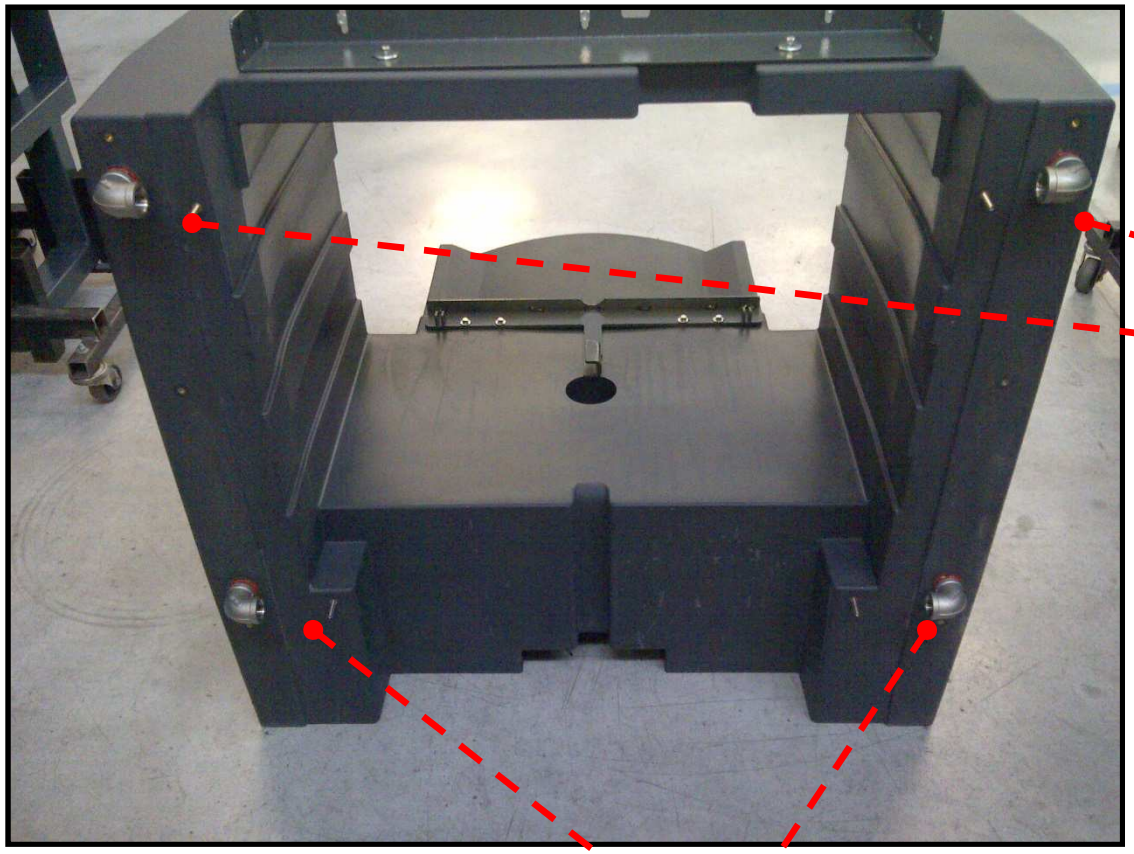
Water Valve

Idric System



Draining of the solution Tank

Idric System



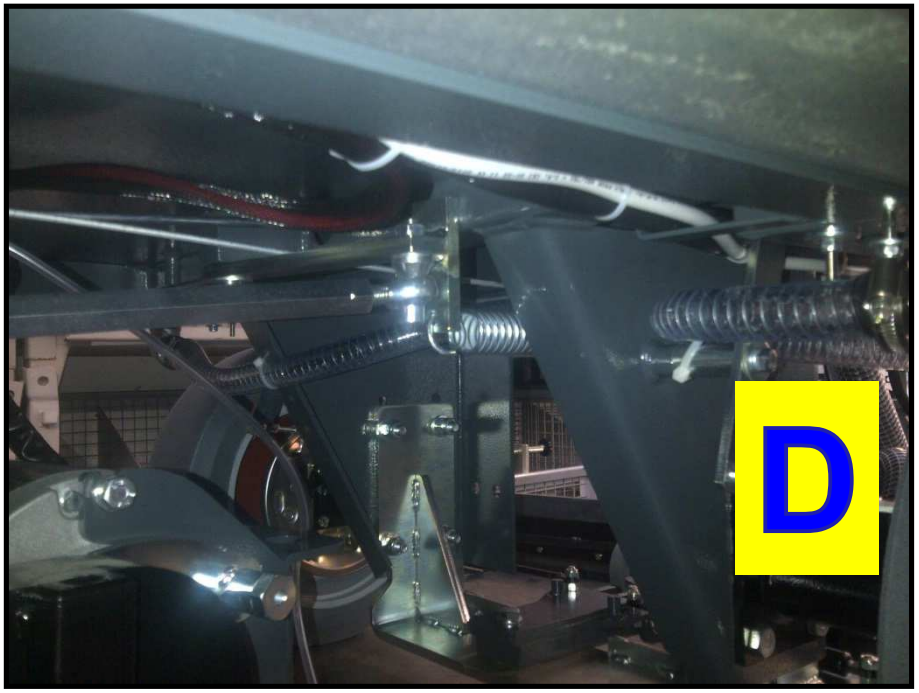
S

From the solution tank to the brush base assembly.

Draining of the solution Tank

D

Idric System



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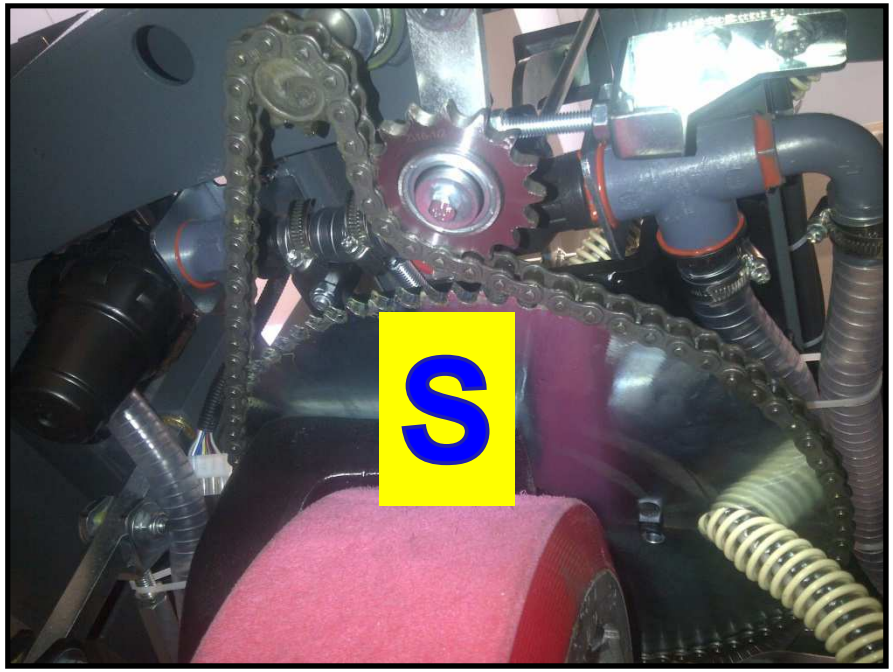

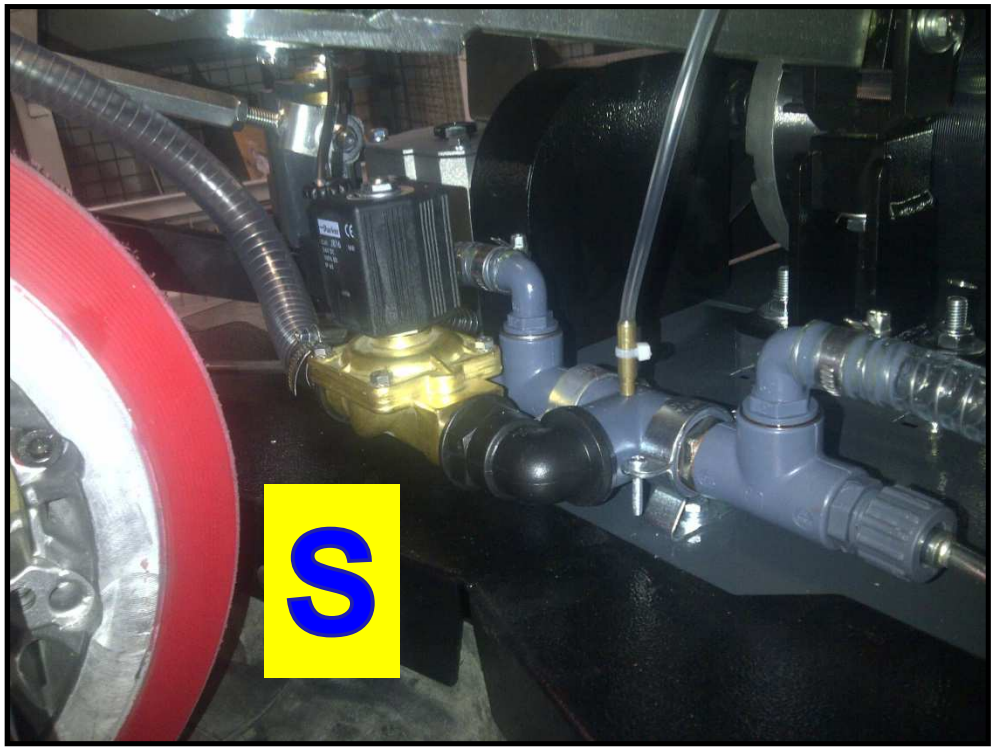

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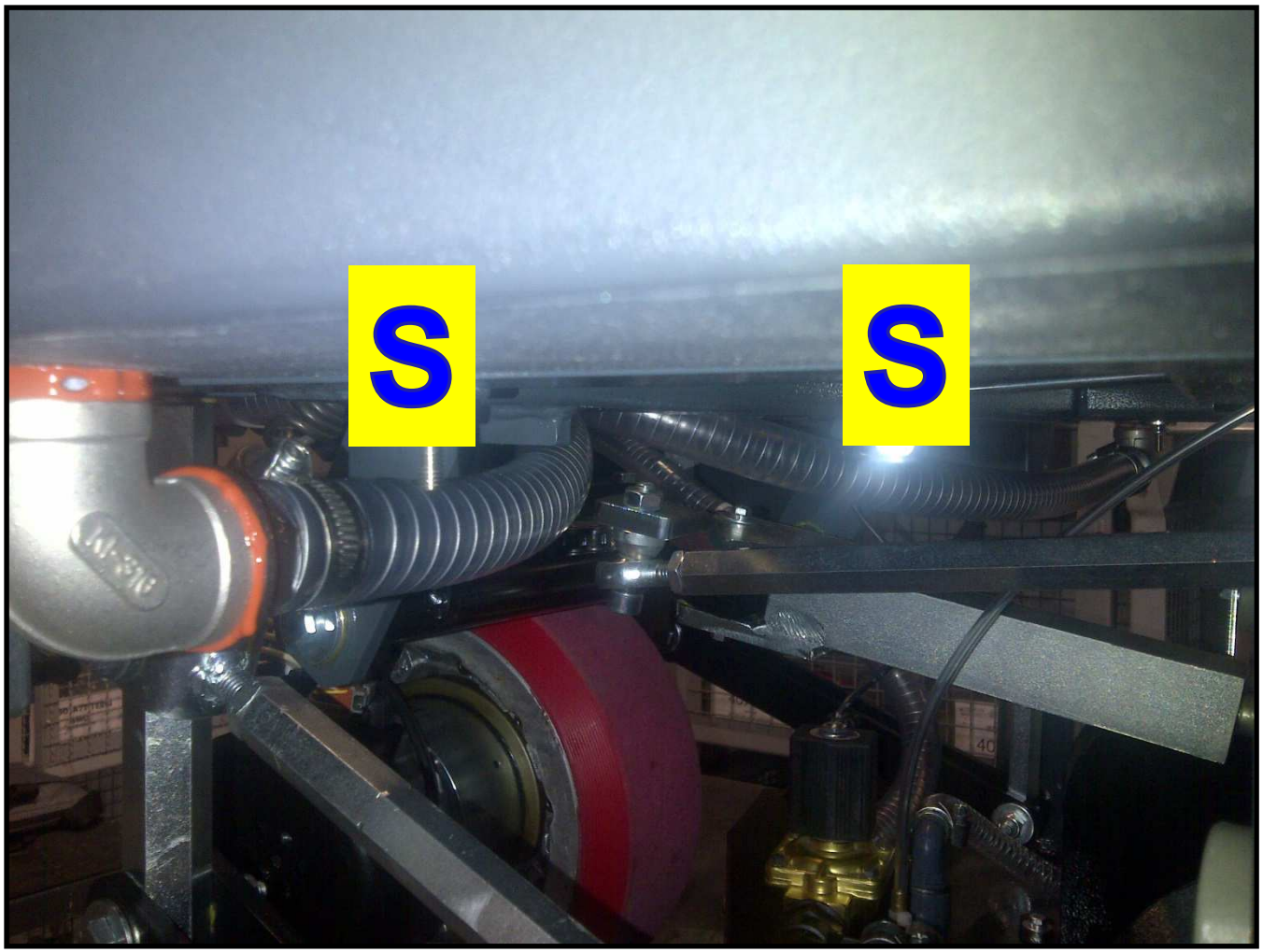

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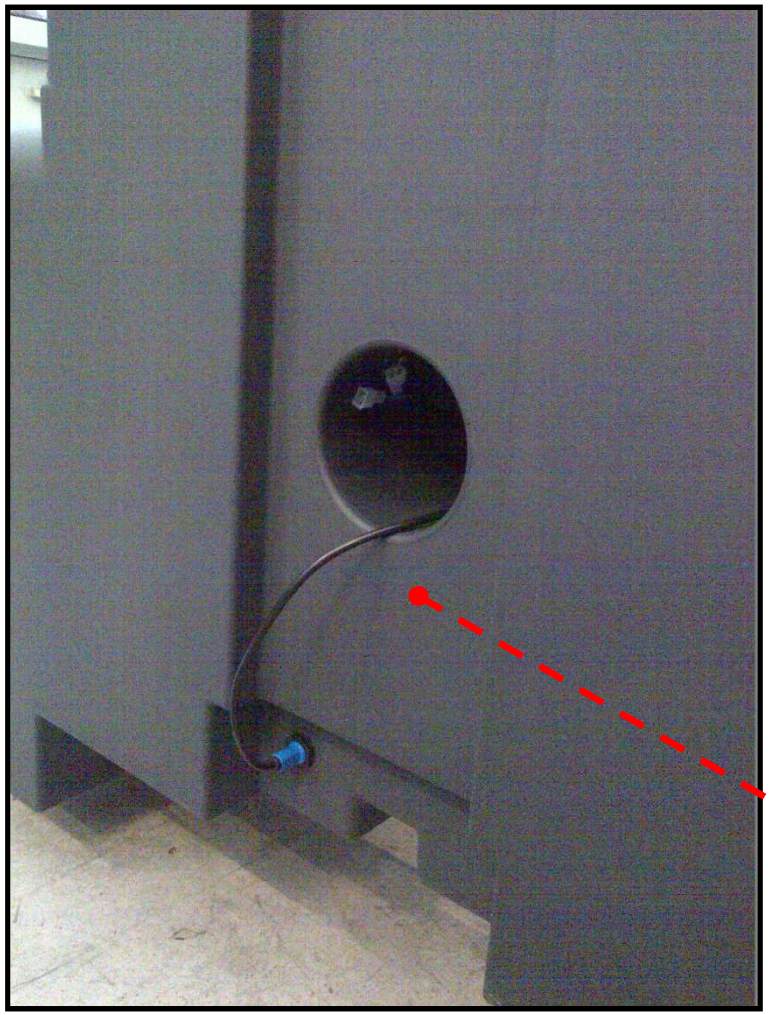
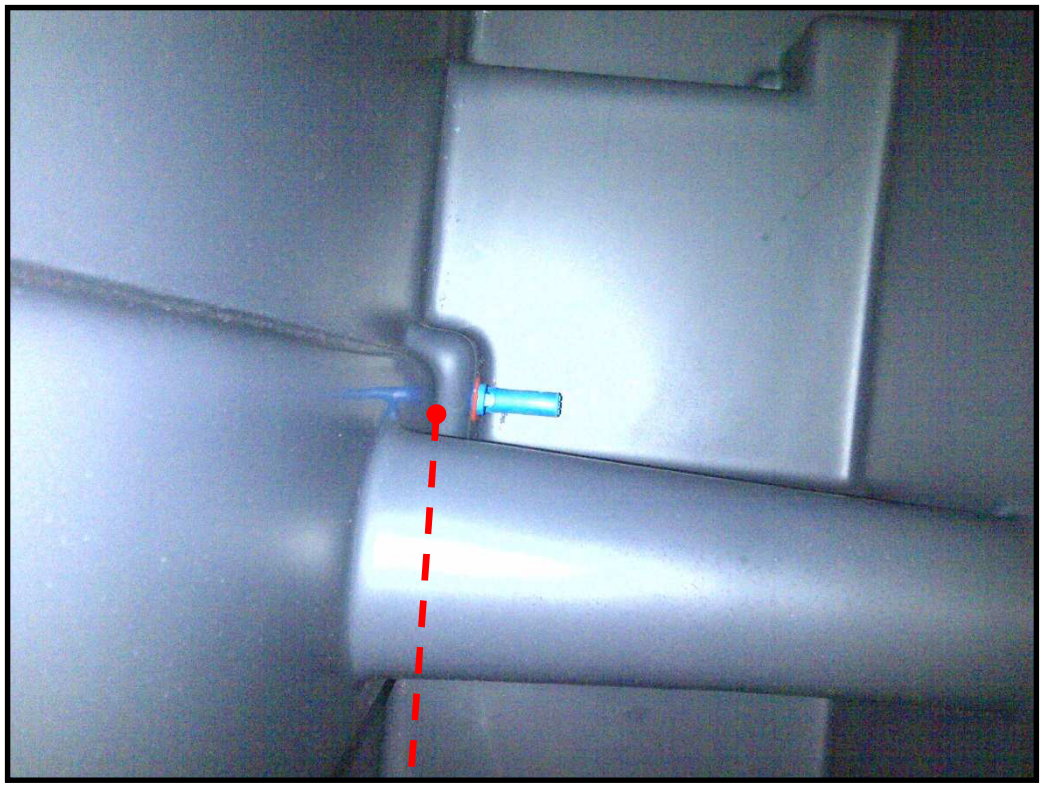
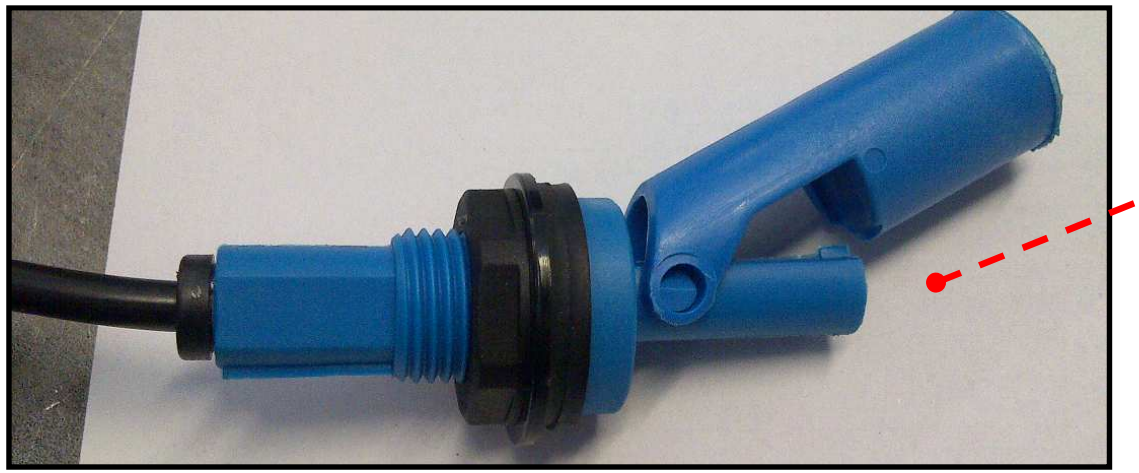




Float (solution tank empty)

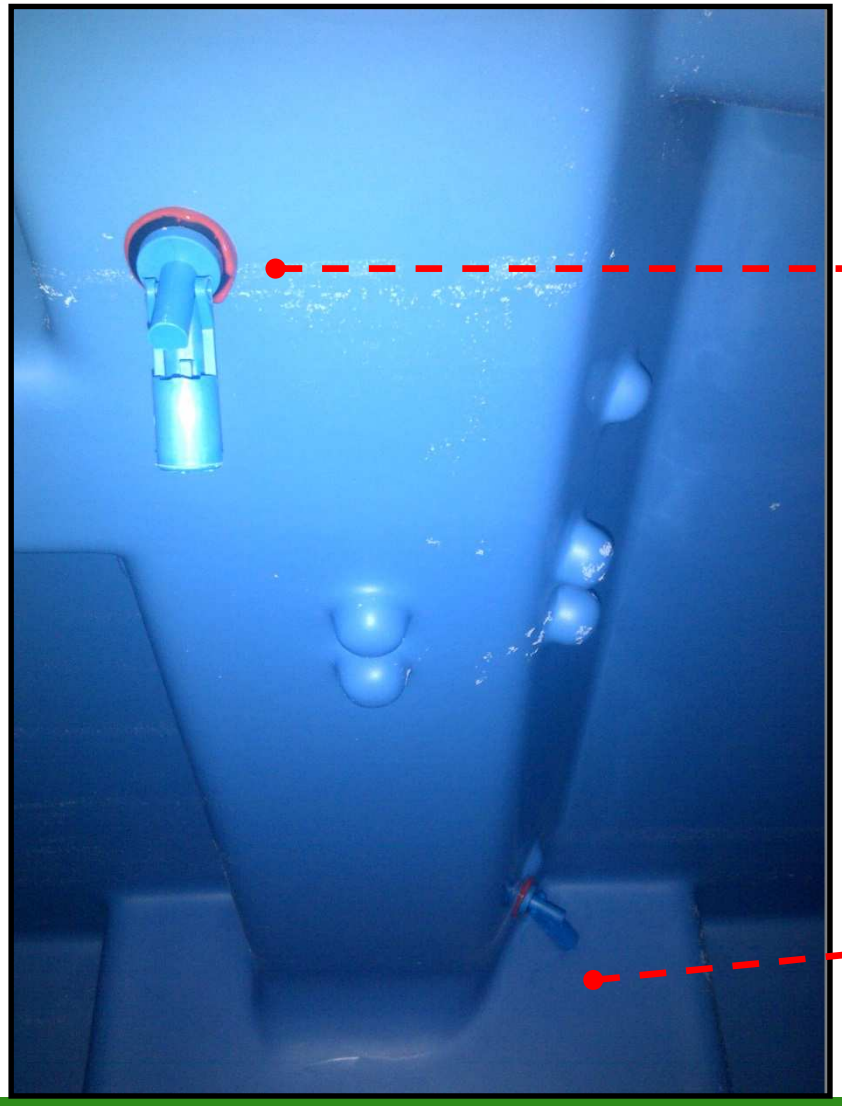
Idric System

Solution tank is empty



Solution tank is not empty

Idric System

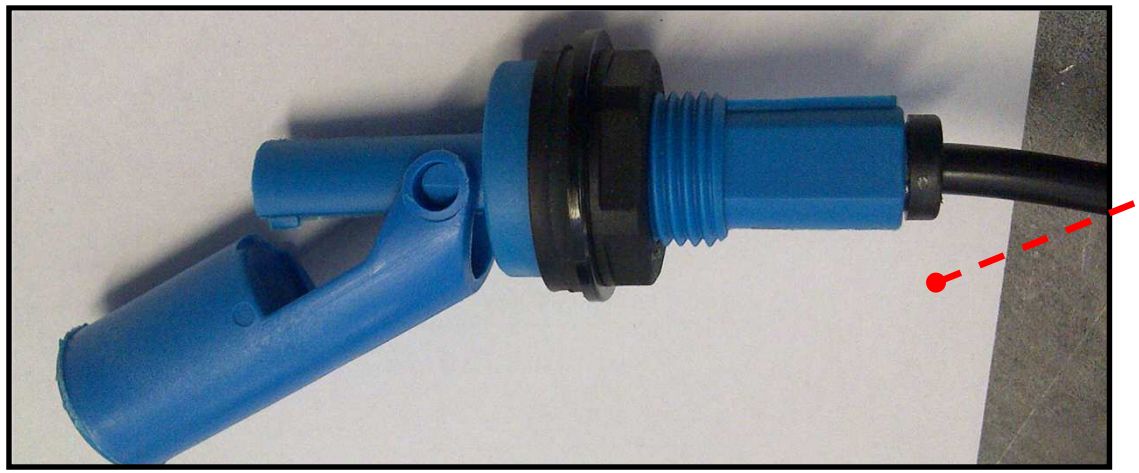


Float (recovey tank full)

Float (revocery tank empty)

Idric System

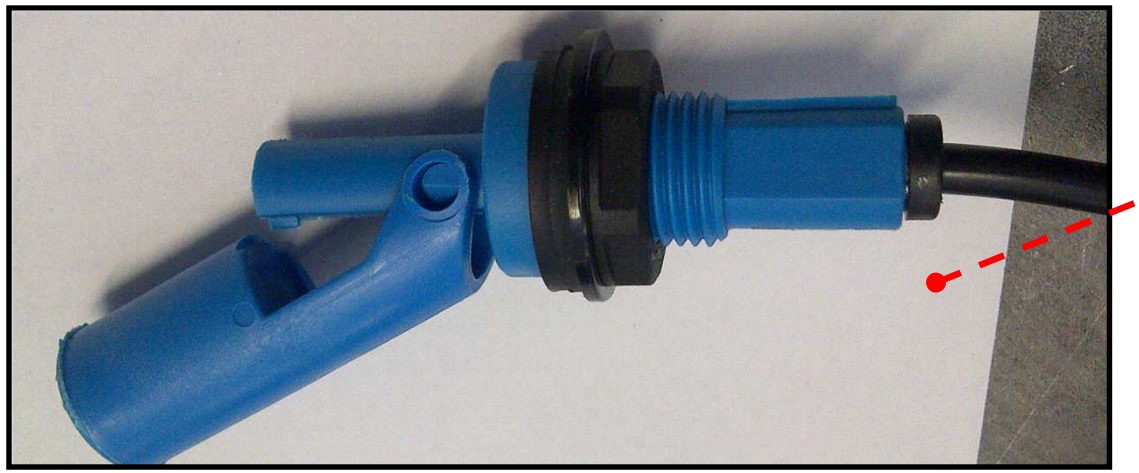
Recovery tank is not emptyl



Recovery tank is emptyl

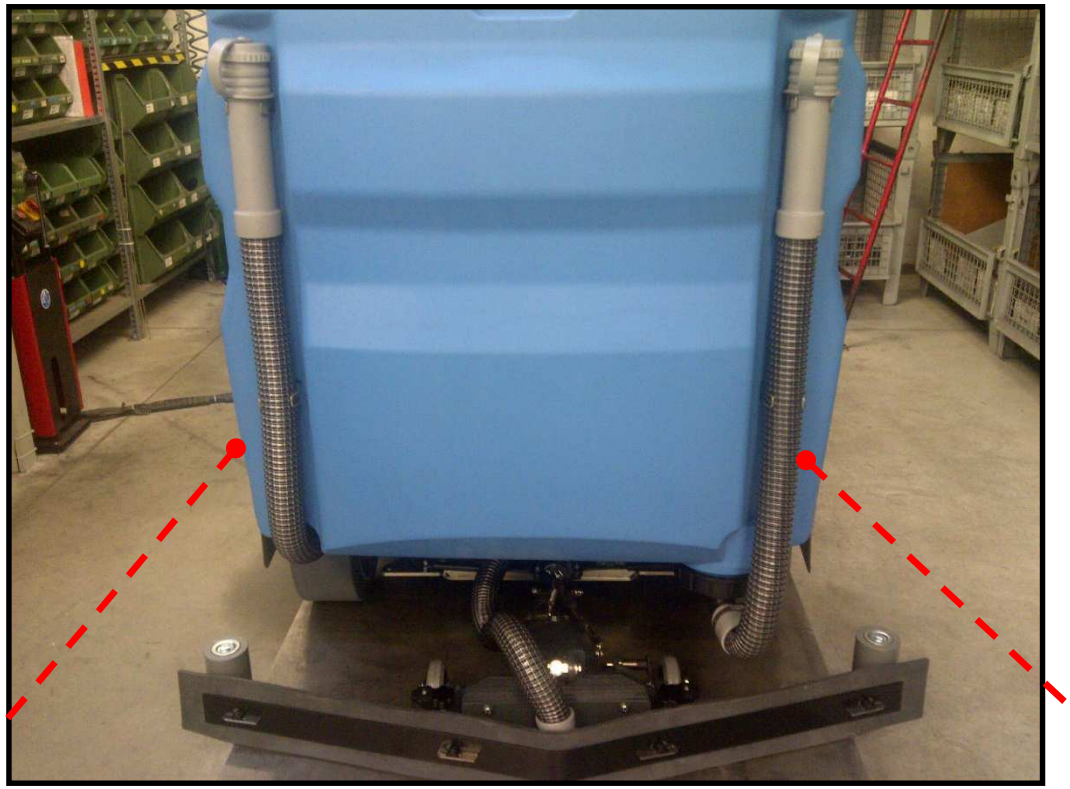
Idric System

Recovery tank is full



Recovery tank is not full

Idric System

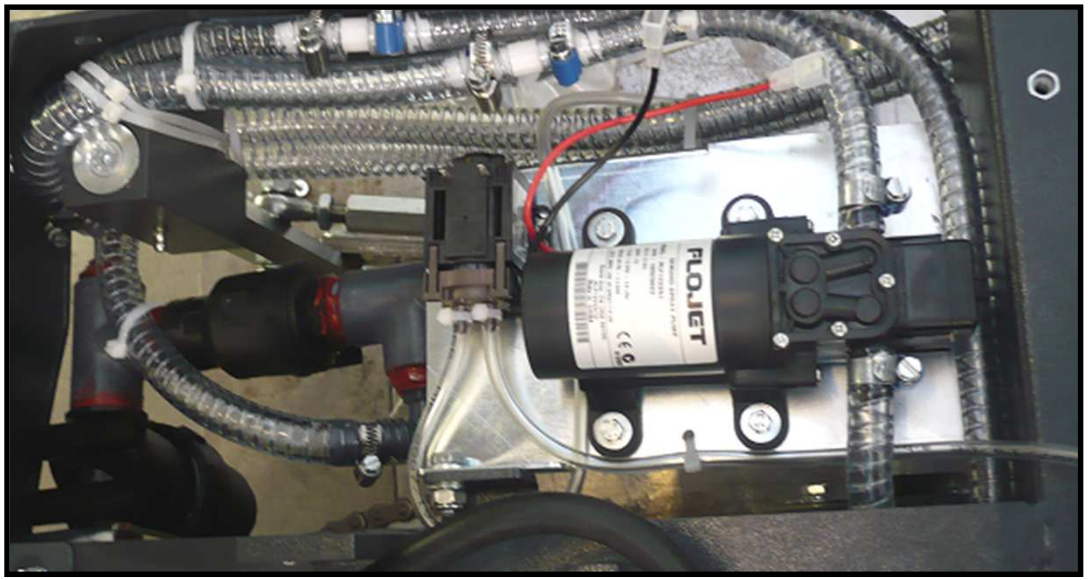


Draining – Solution Tank

Draining – Recovery Tank

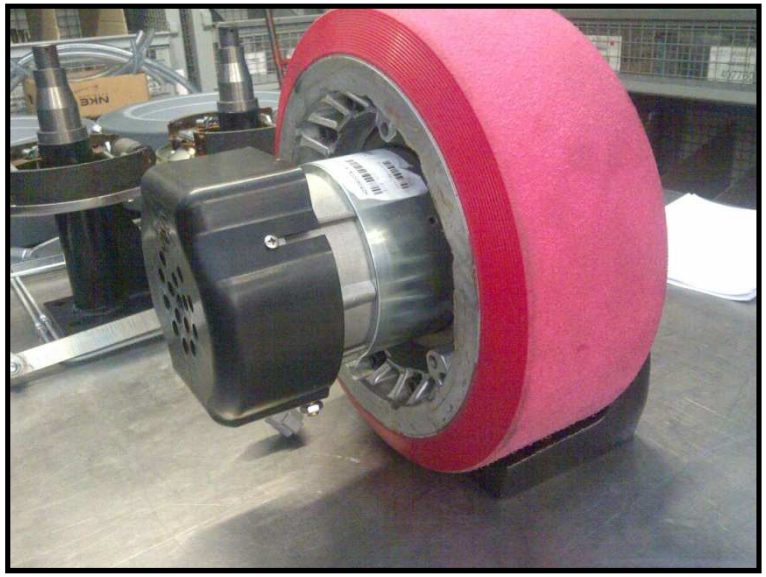
Idric System

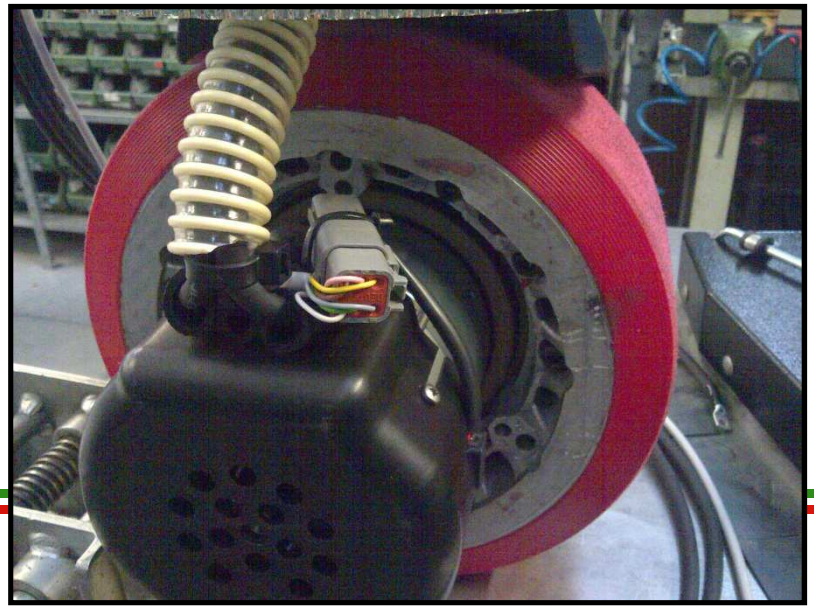
The machine with the dosing system has two water pumps and one chemical pump.

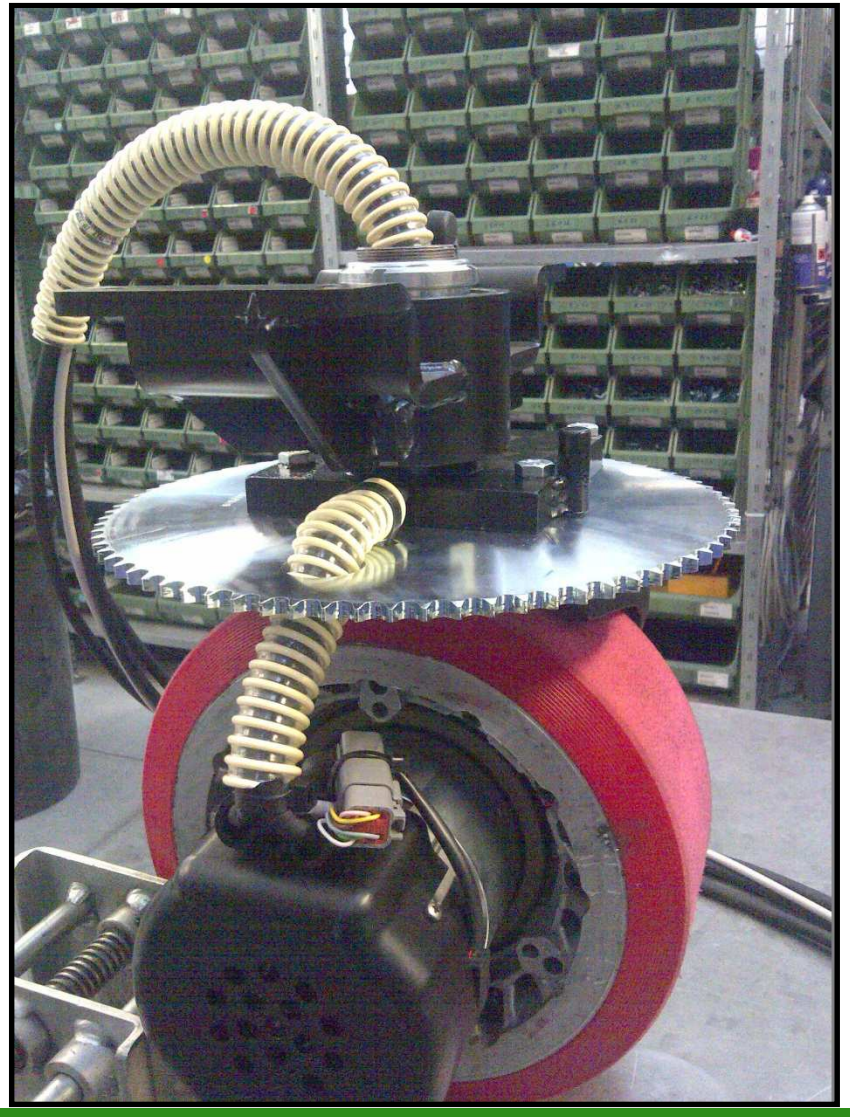


Corso Tecnico

Traction System







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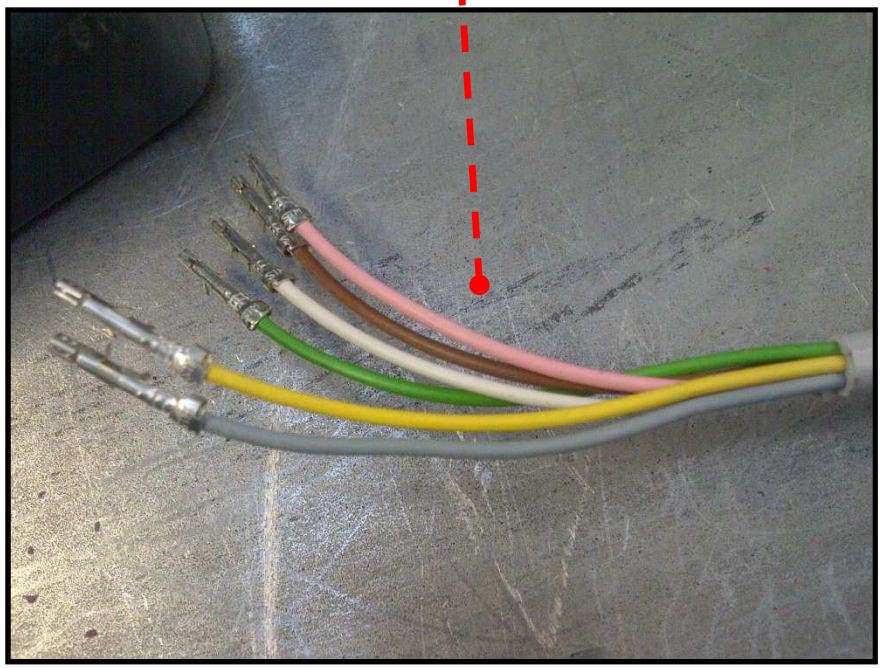
Traction System

Encoder



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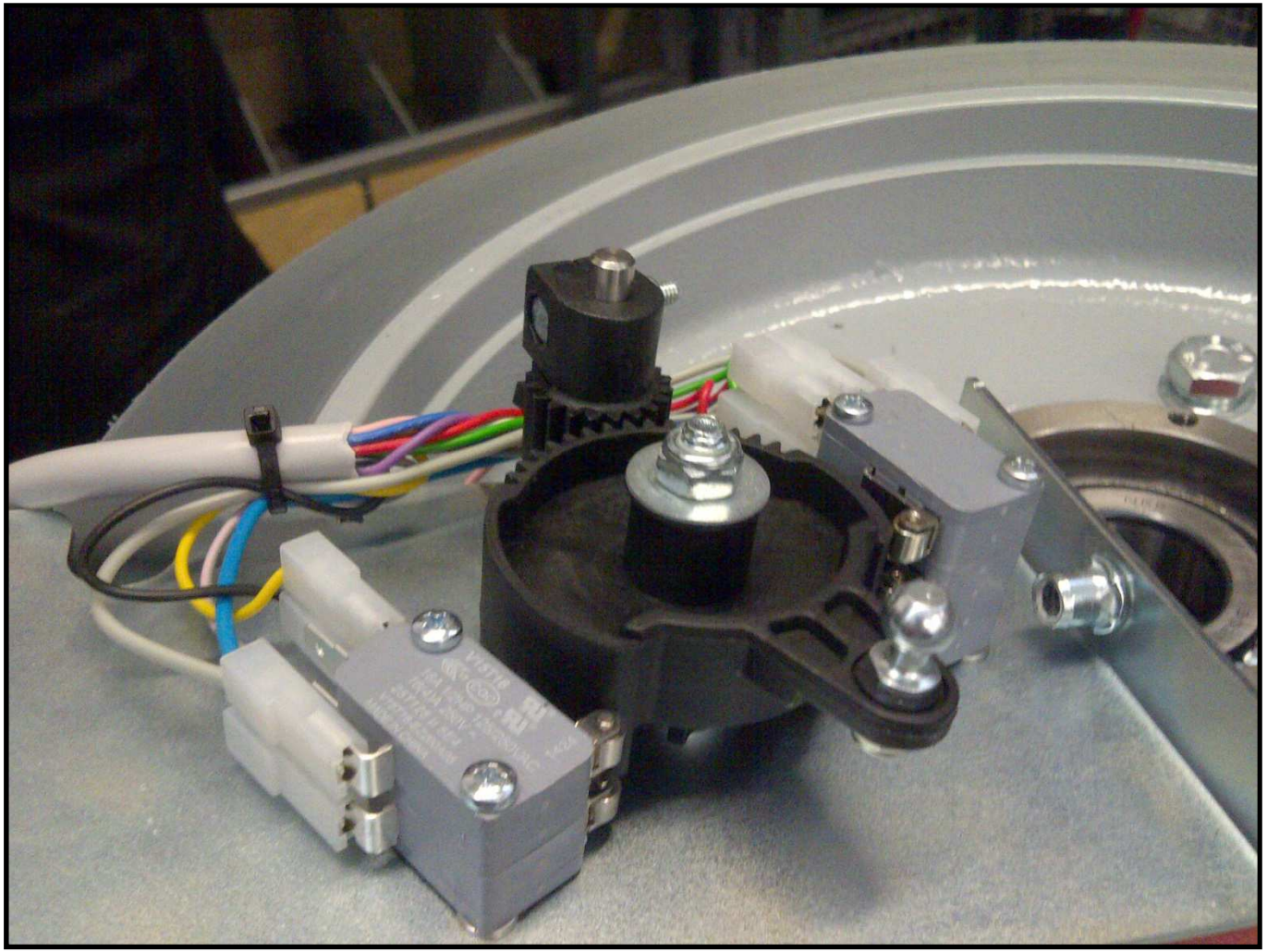

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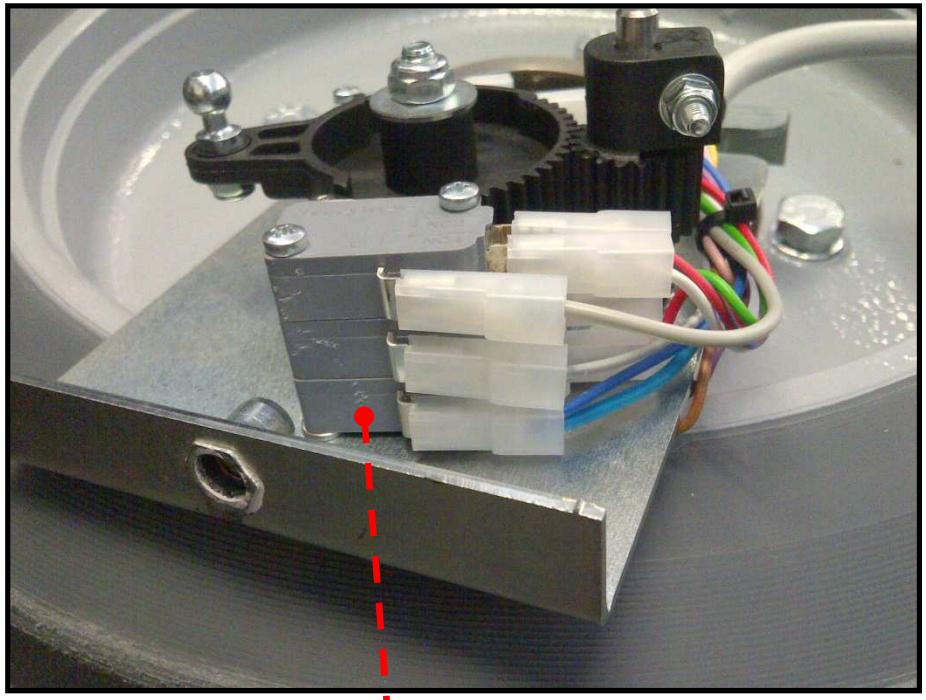
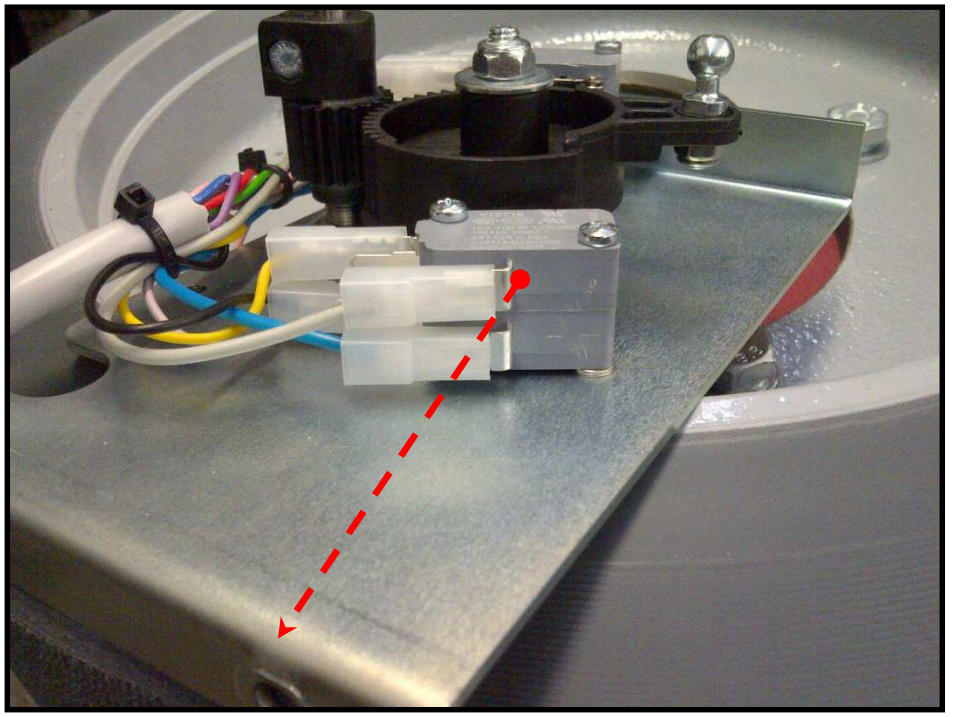
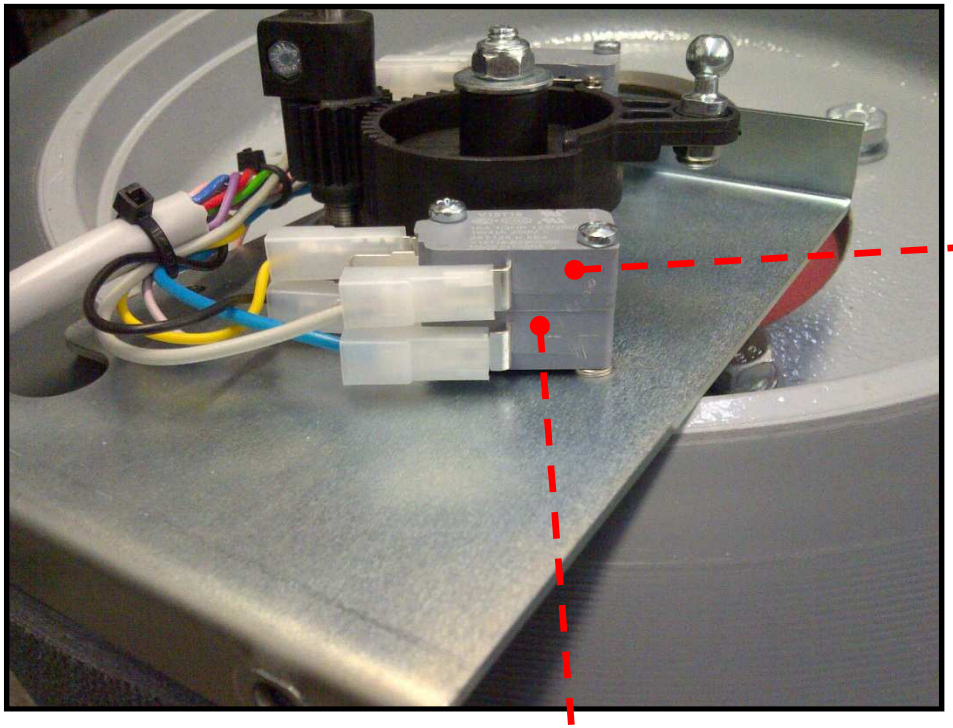


Forward Direction

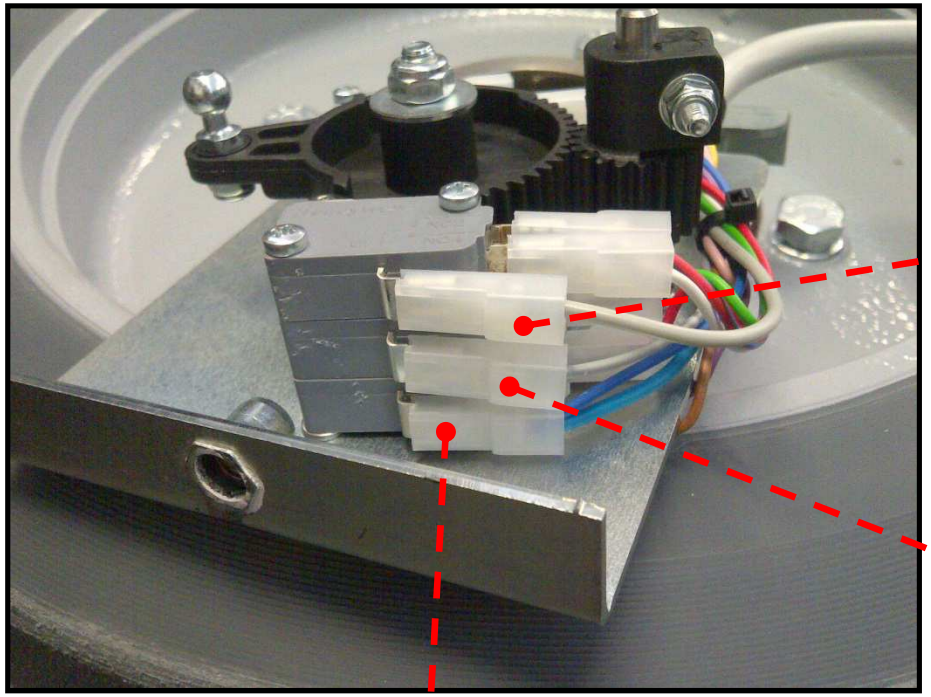
Backward Direction



Traction System



Traction System

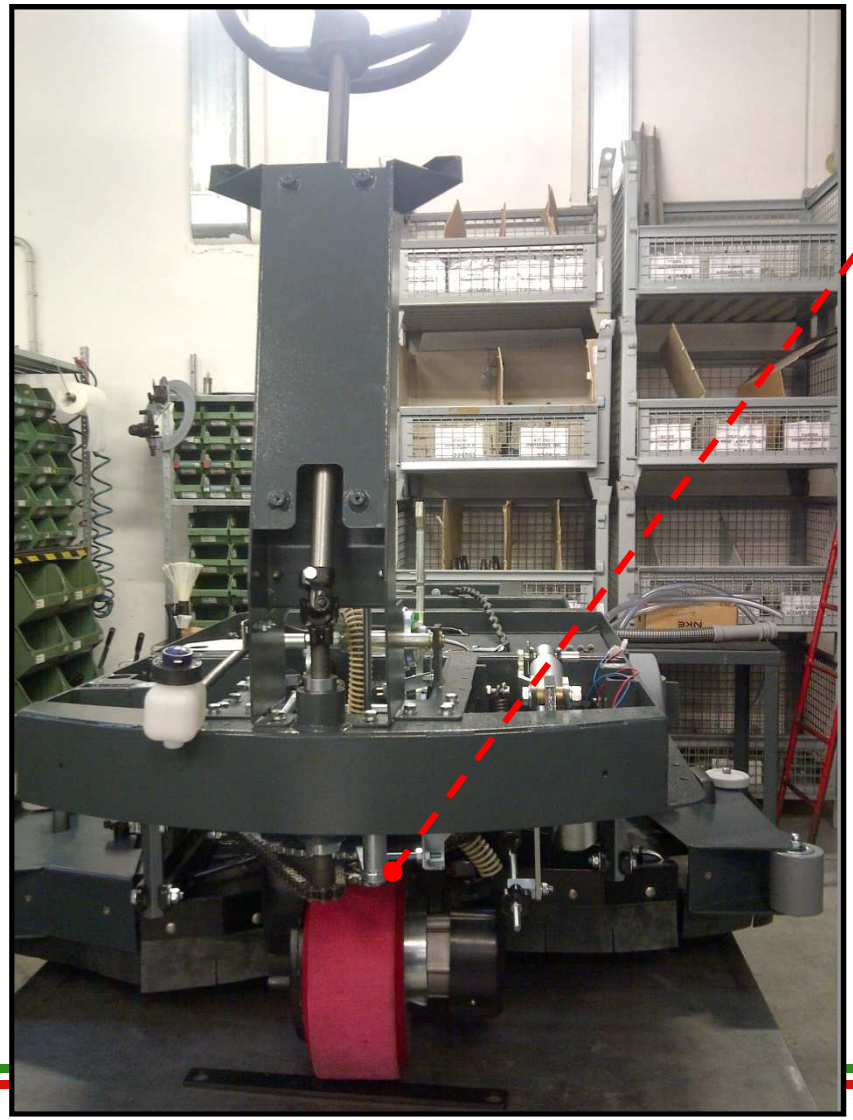


Sueegee Command

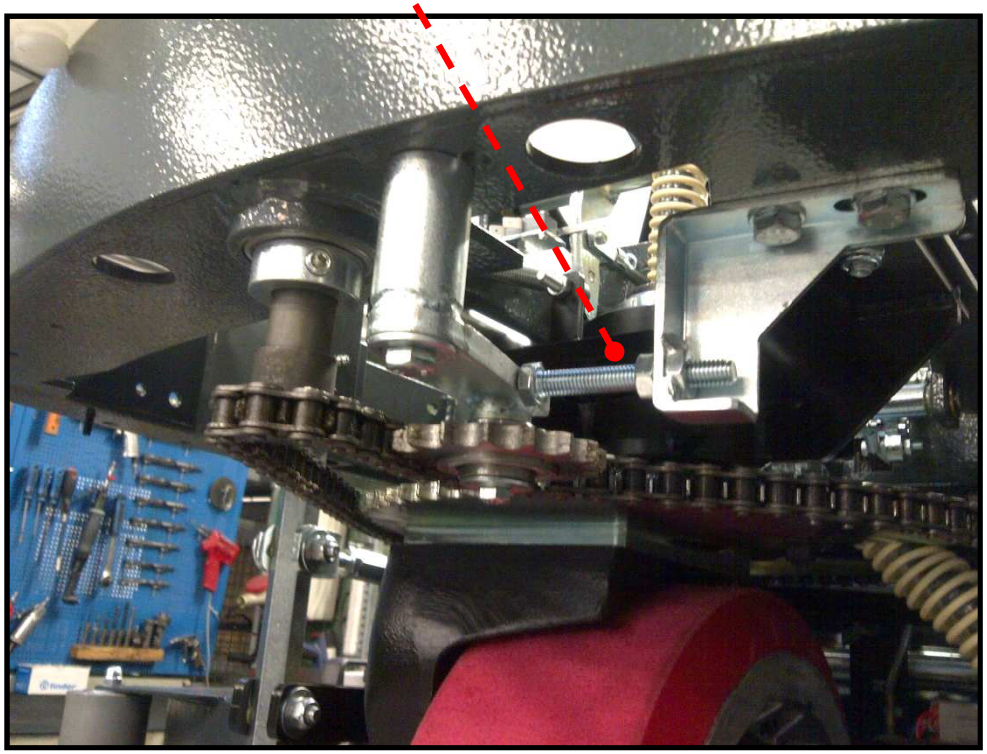
Forward Command

Brush Base Consent

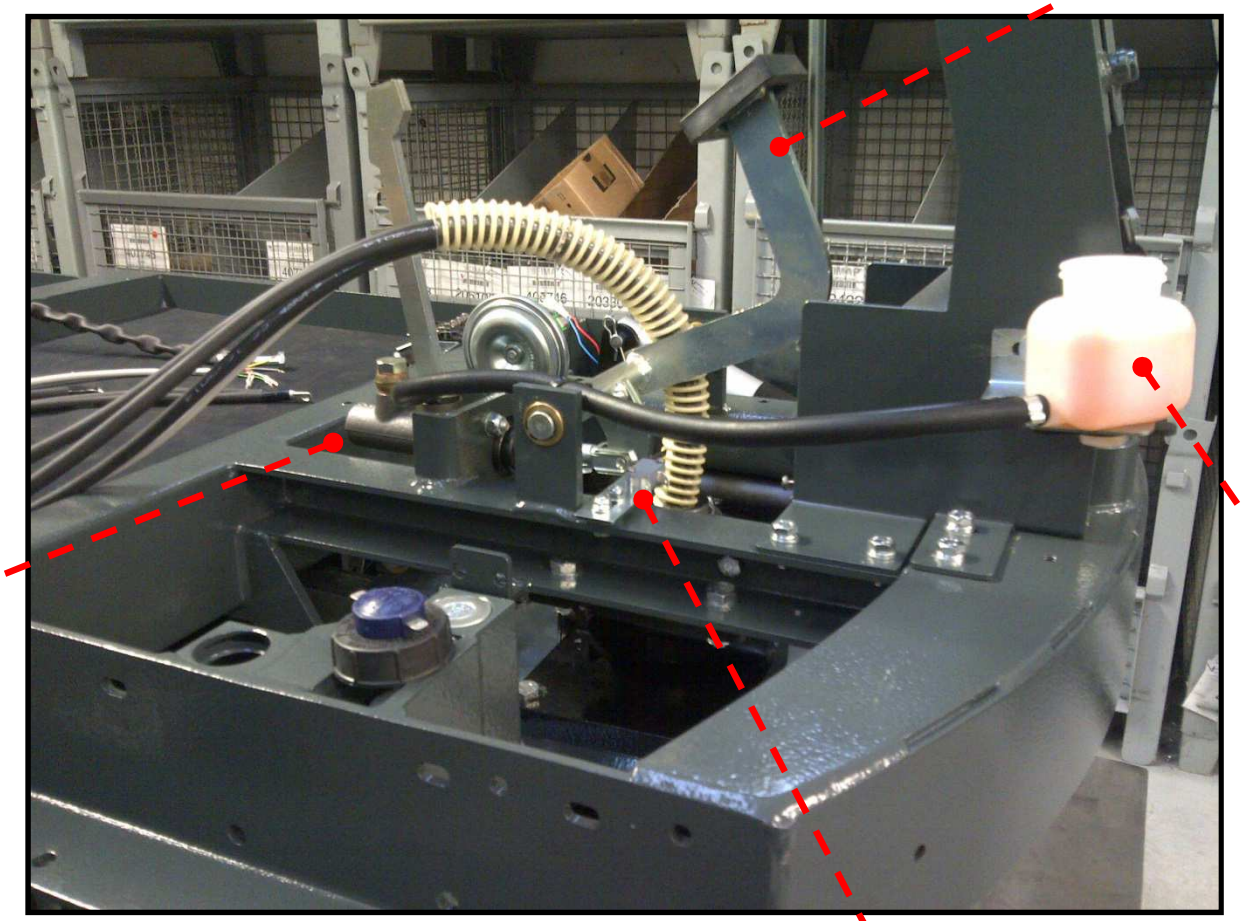
Traction System



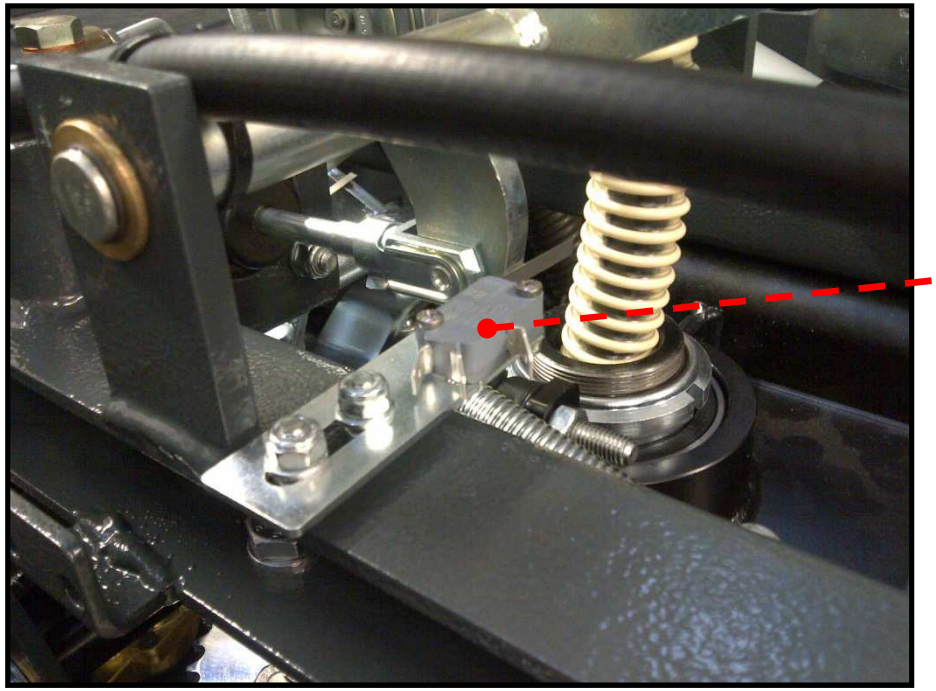
Tensioner



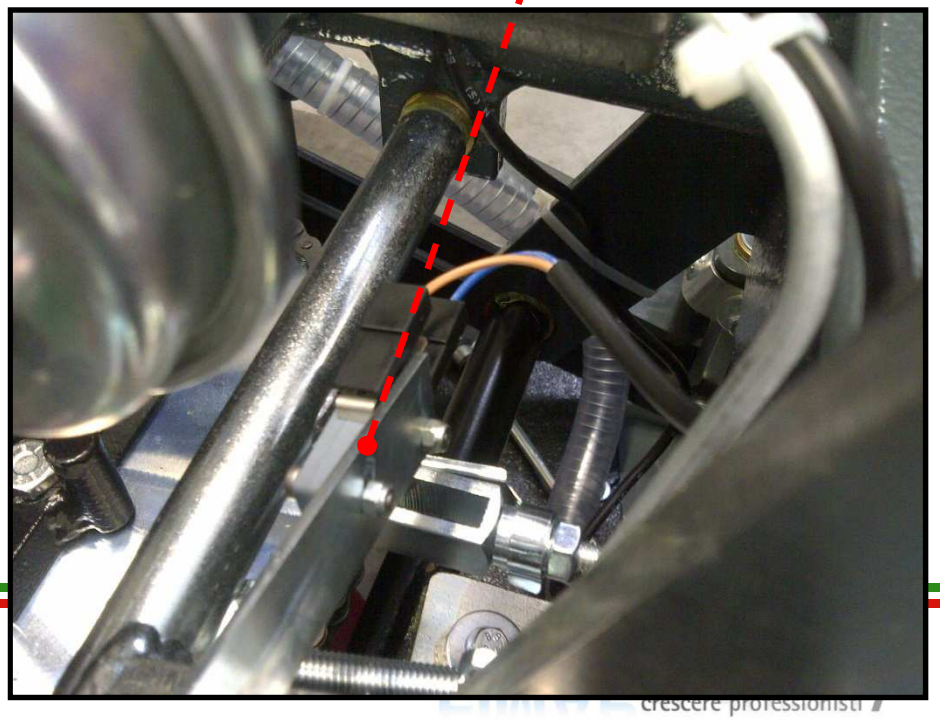
Braking System



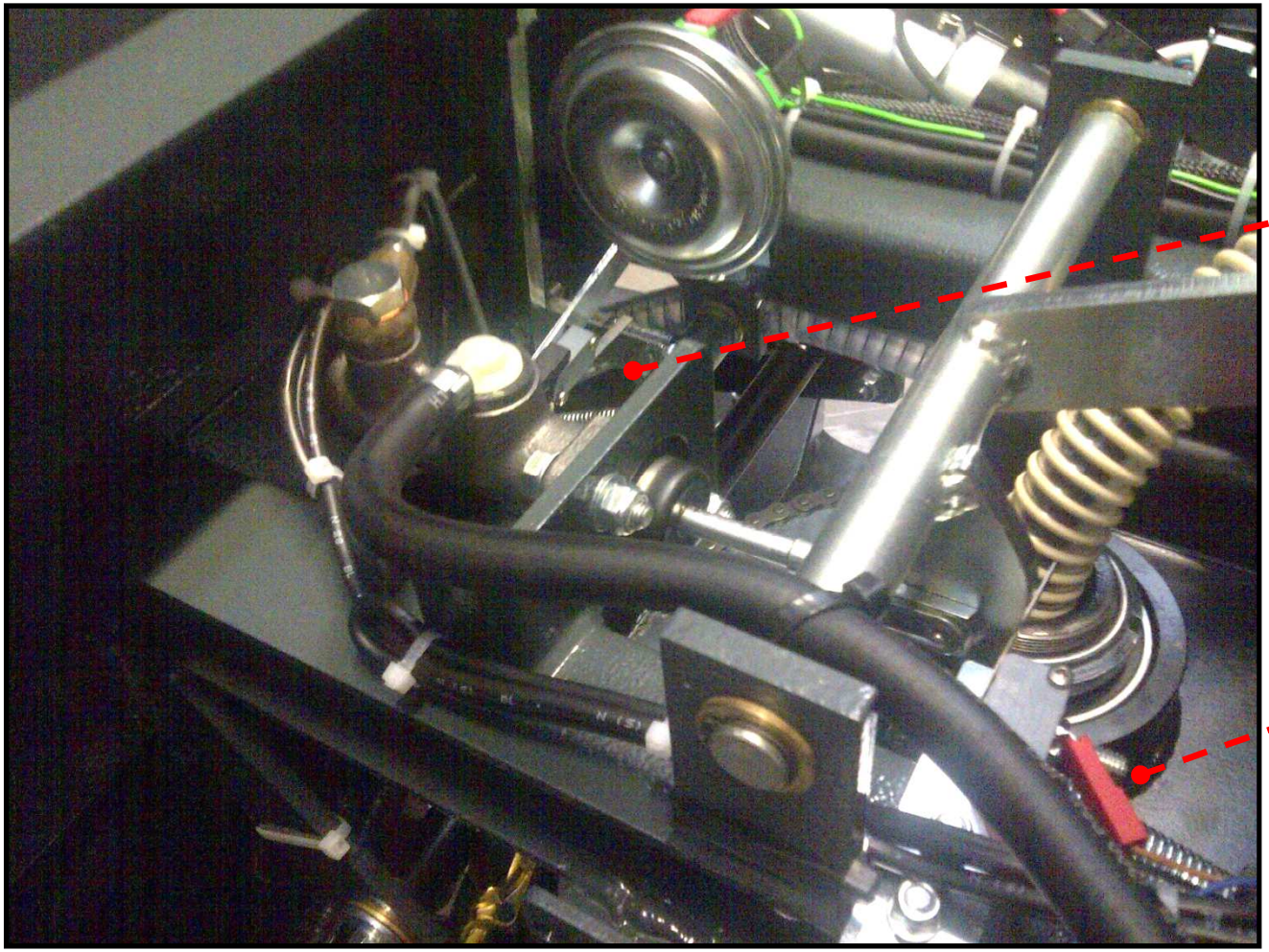
Braking System



Micro switch (Pedal)

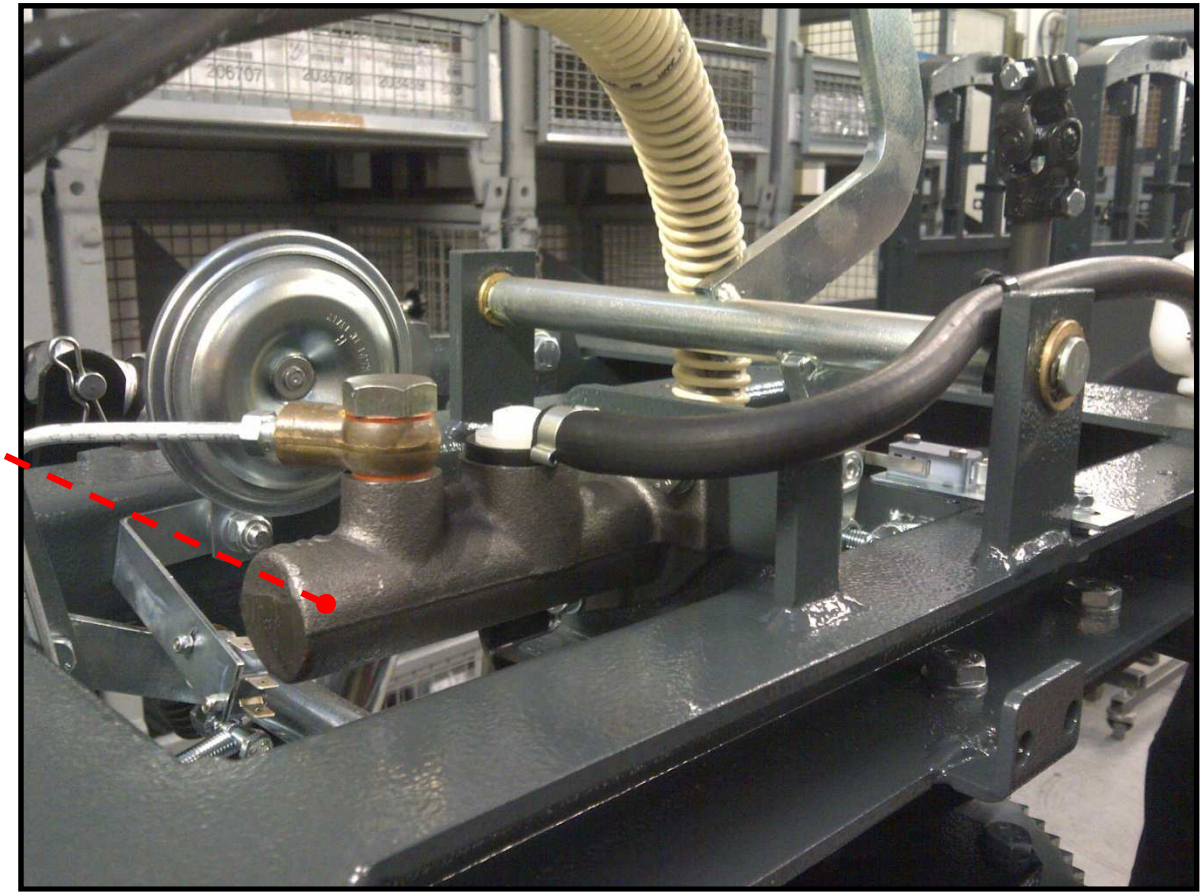


Braking System

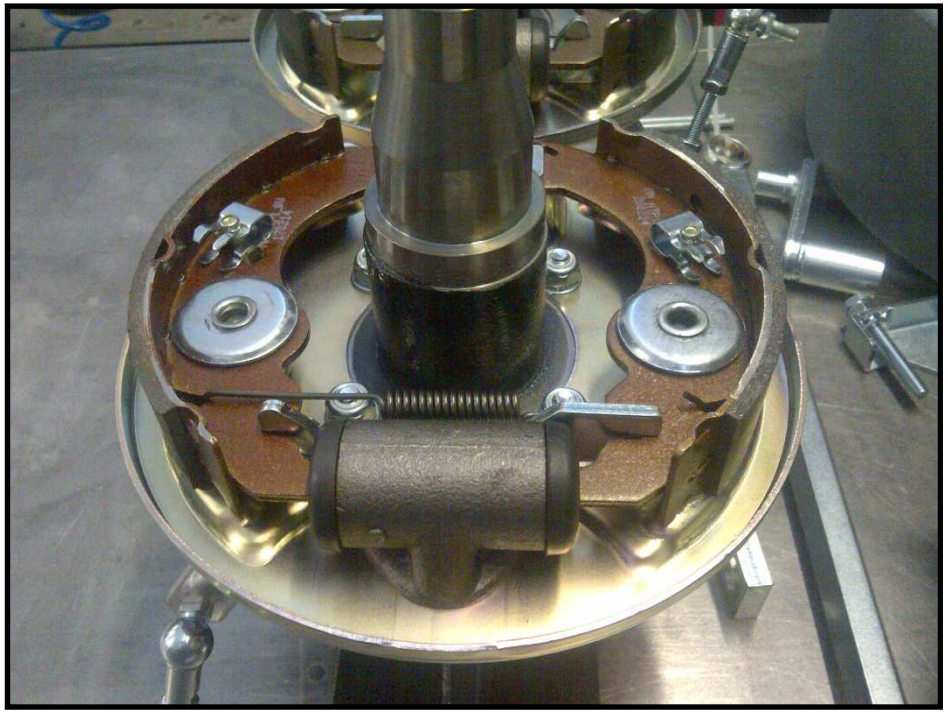


Braking System

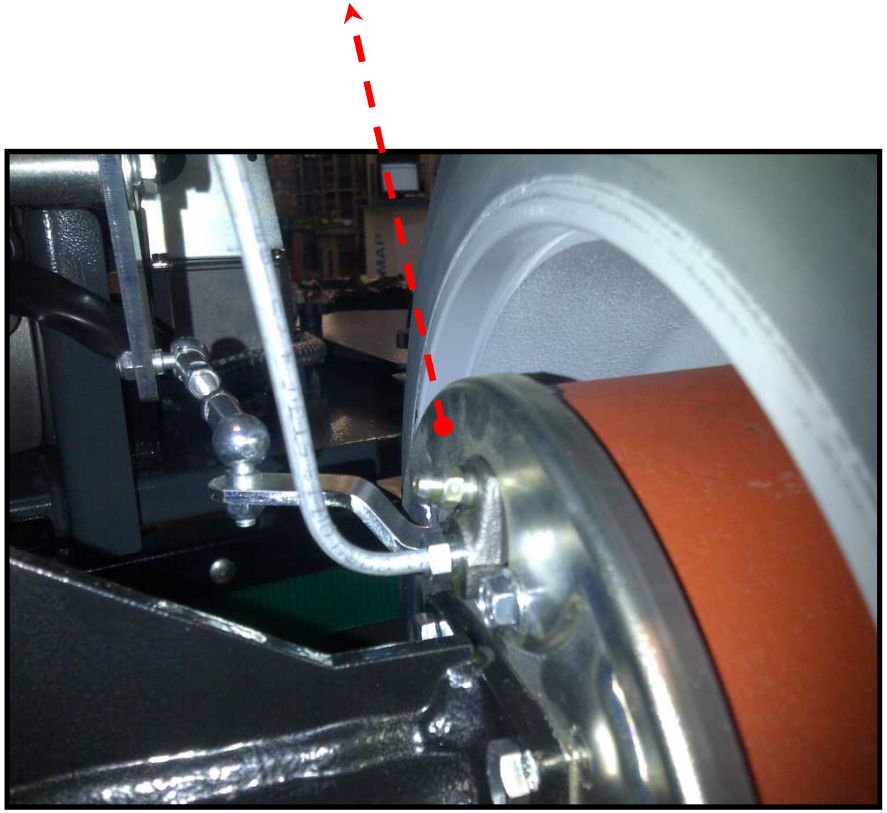
Brake Pump



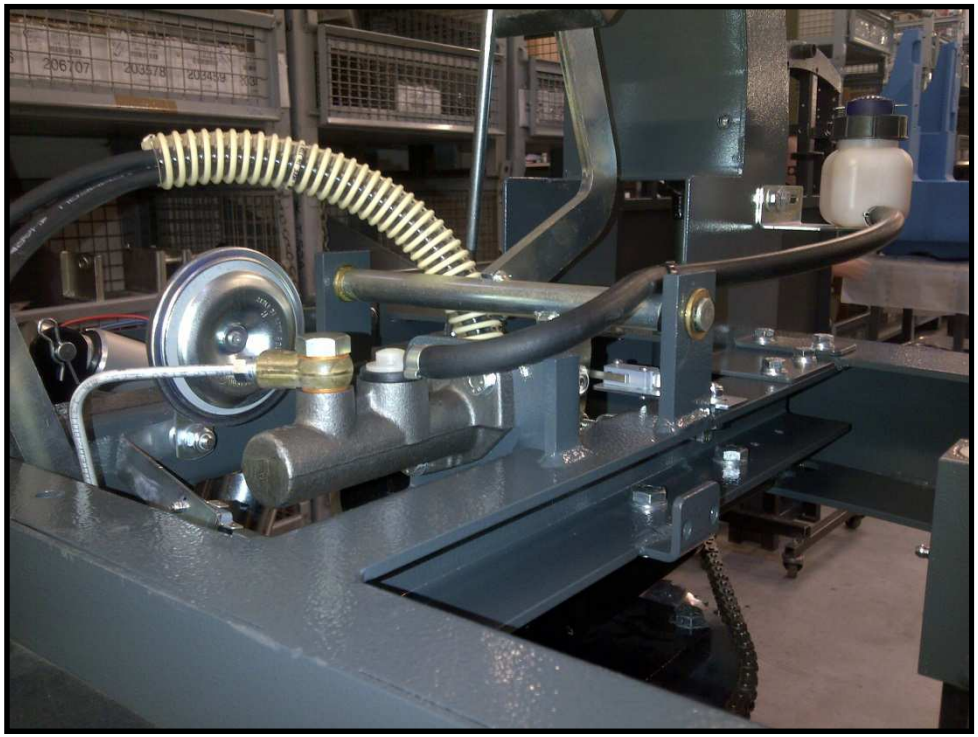
Braking System



Vent – Brake oil system

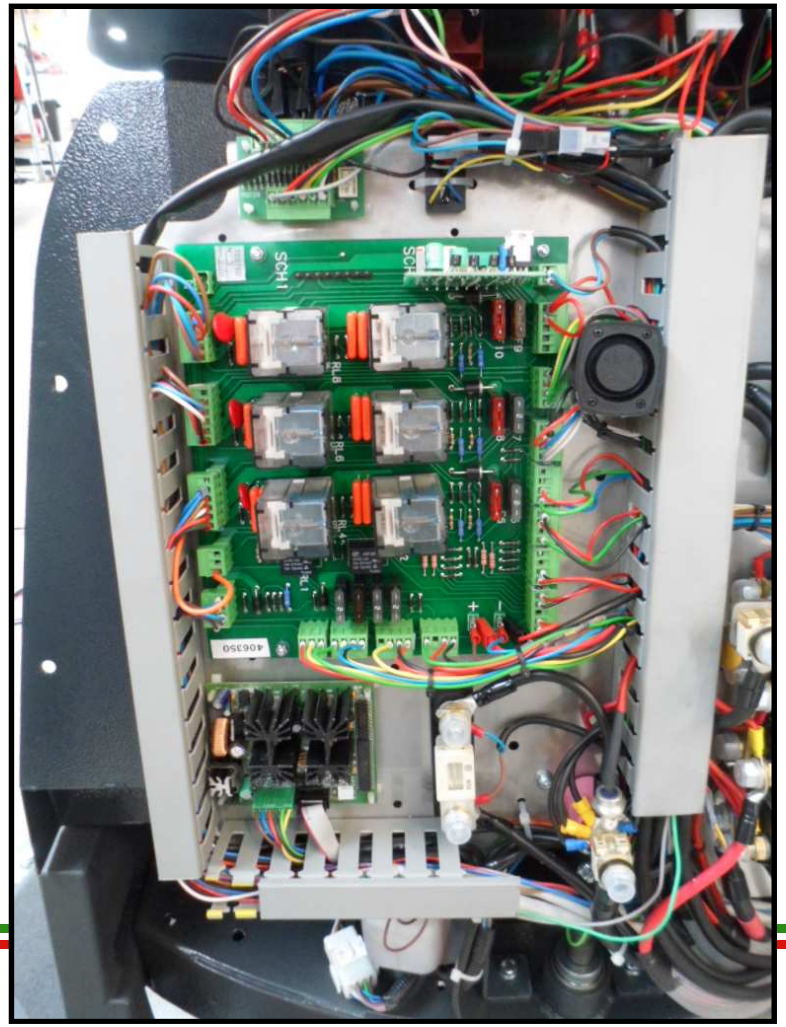


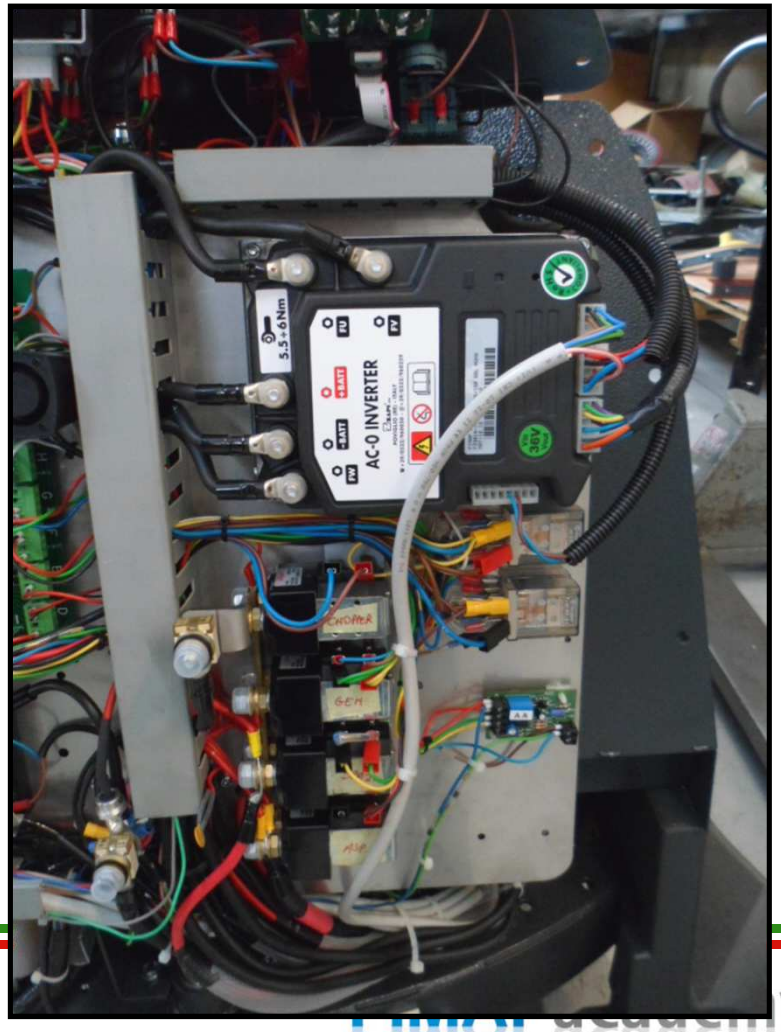
Braking System



Corso Tecnico

Electric System
- SMG 120 -





Electric System
- SMG 120 -

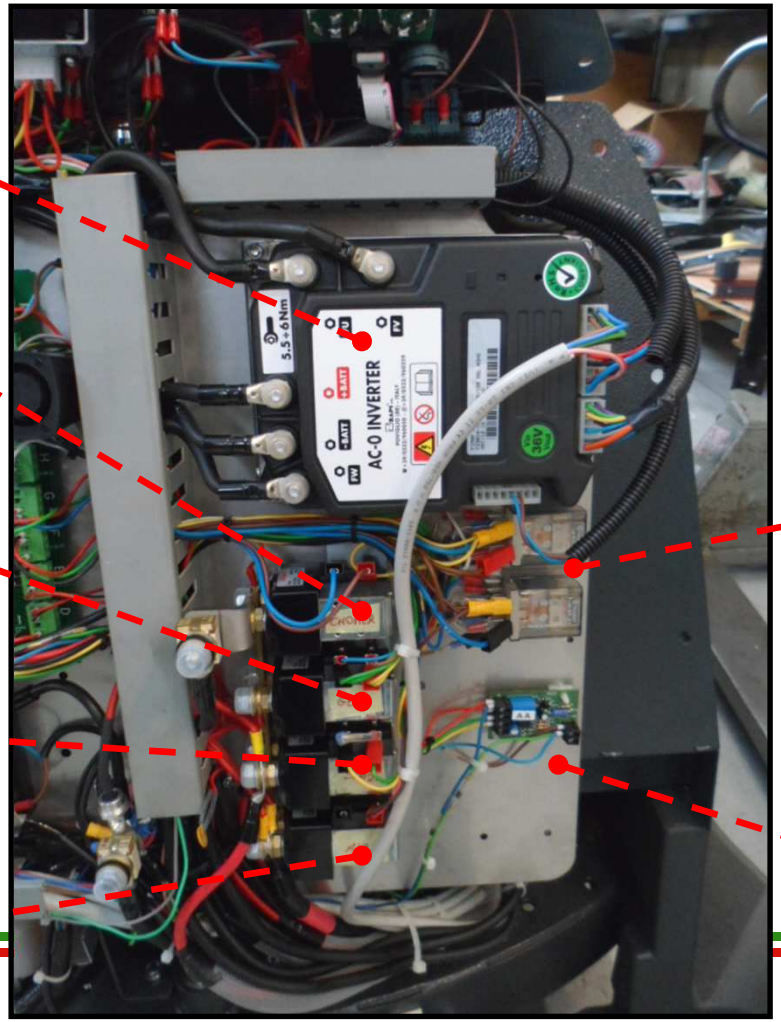
Chopper Card

Contactor - Chopper

Contactor
General Swicth

Contactor
Brush Motor

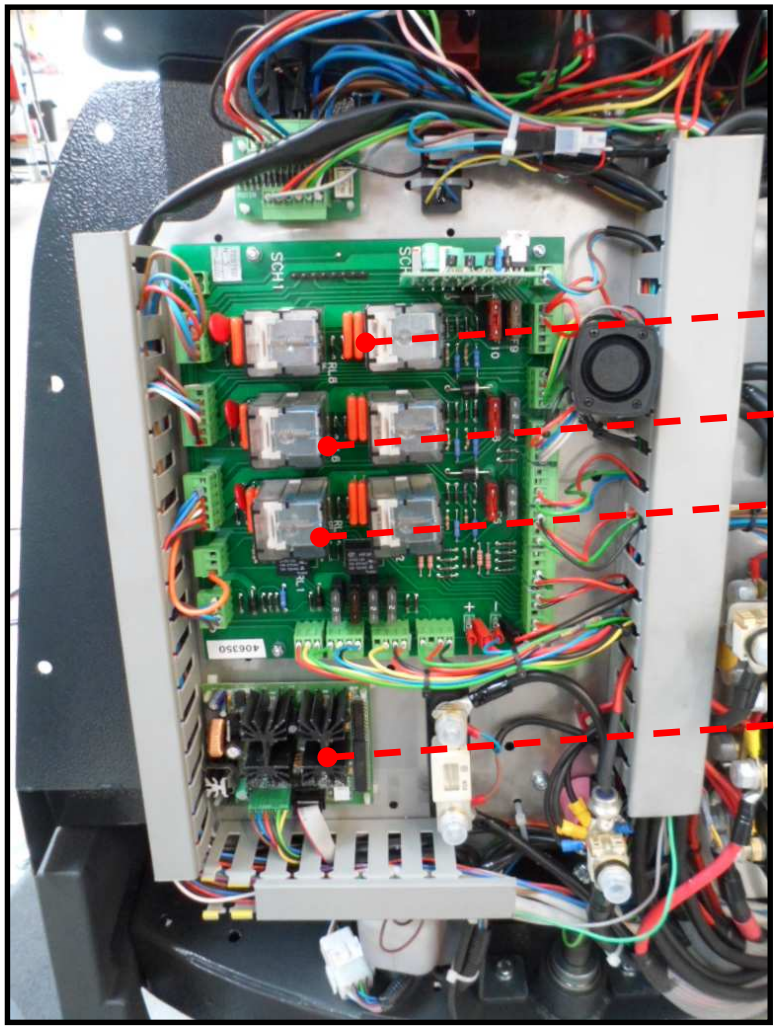
Contactor
Suction Motor



Relay – Opening
and closing of the
recovery tank

Check Card Float –
Suction Motor

Electric System
- SMG 120 -



→ Relay – Brush Base Up/down

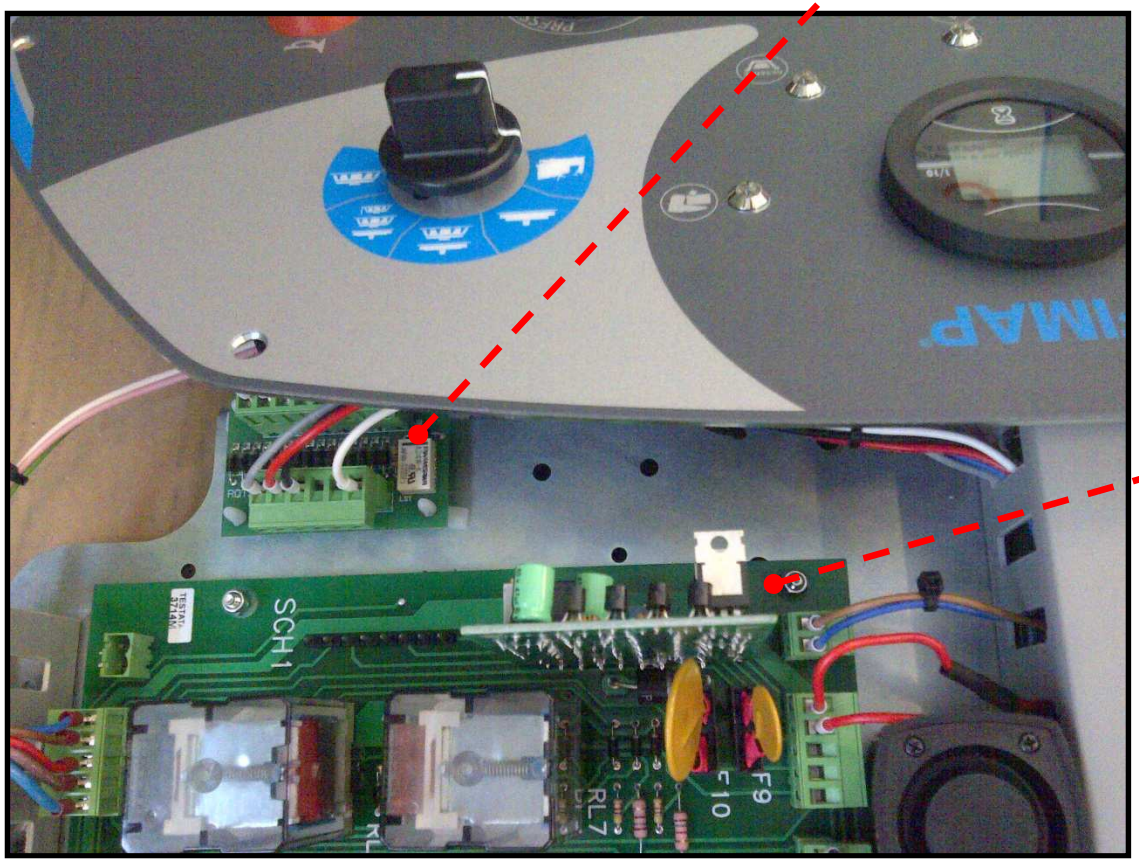
→ Relay – Brush Base Side Movement

→ Relay – Squeegee Up/down

→ Dosing System

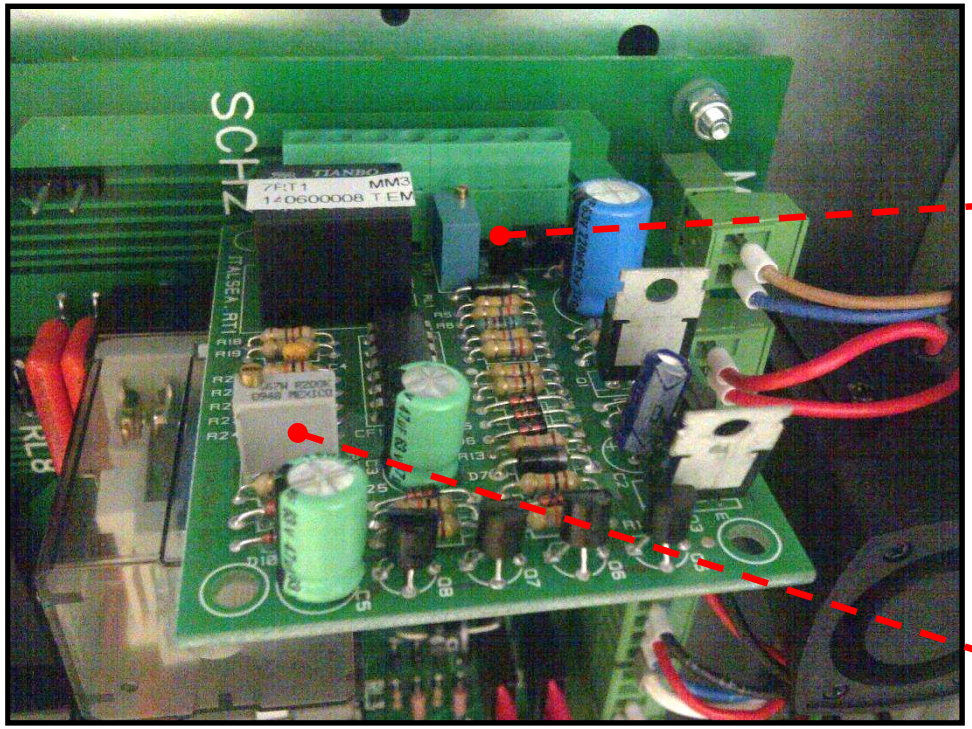
Electric System
- SMG 120 -

Electronic Card – I-Drive



Check Card – Amperometric
Control Brush Motor

Electric System
- SMG 120 -

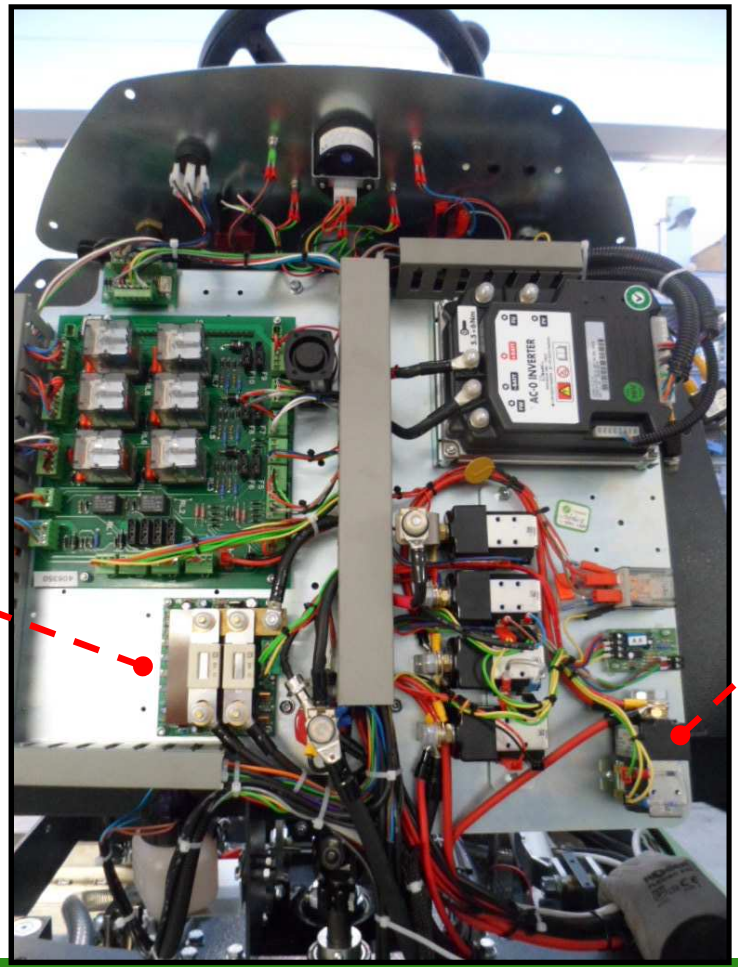


Maximum current consumption for the brush motor (70 Amp).

Delay (15-20 flashes) before the amperometric protection

Electric System
- SMG 130 -

Amperometric
Control Brushes

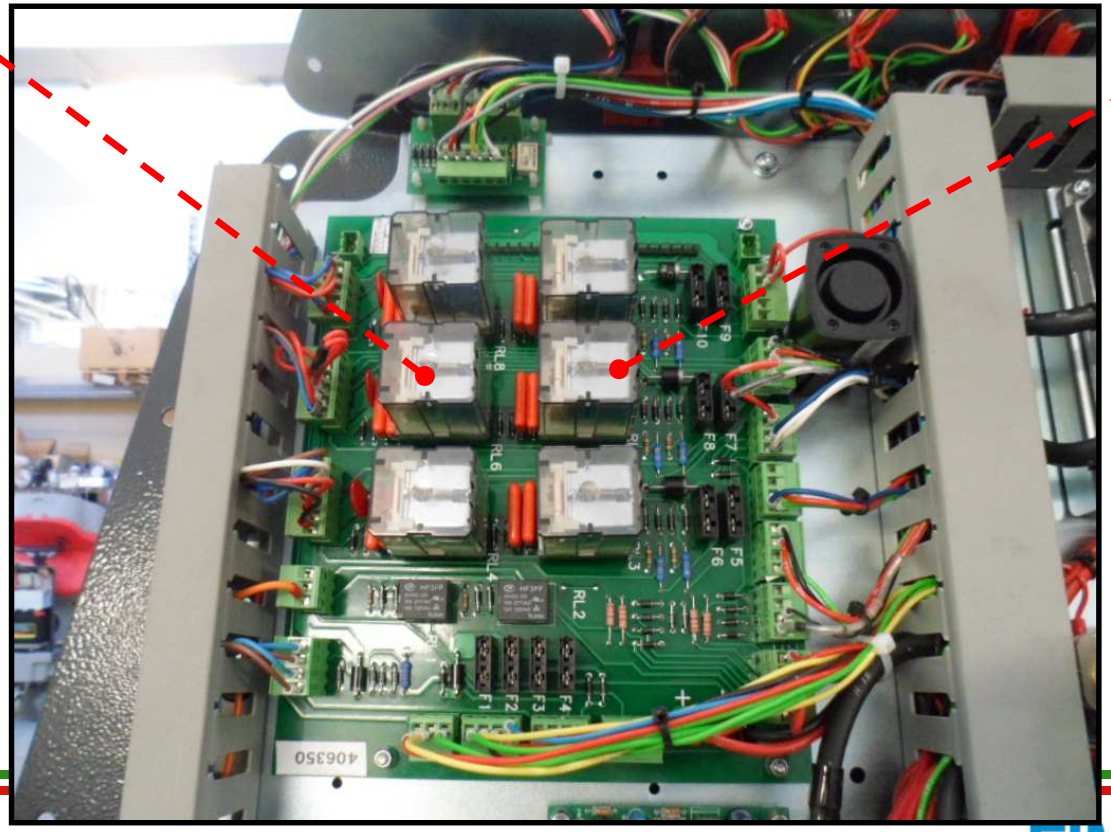


Contactor
Brush Motor

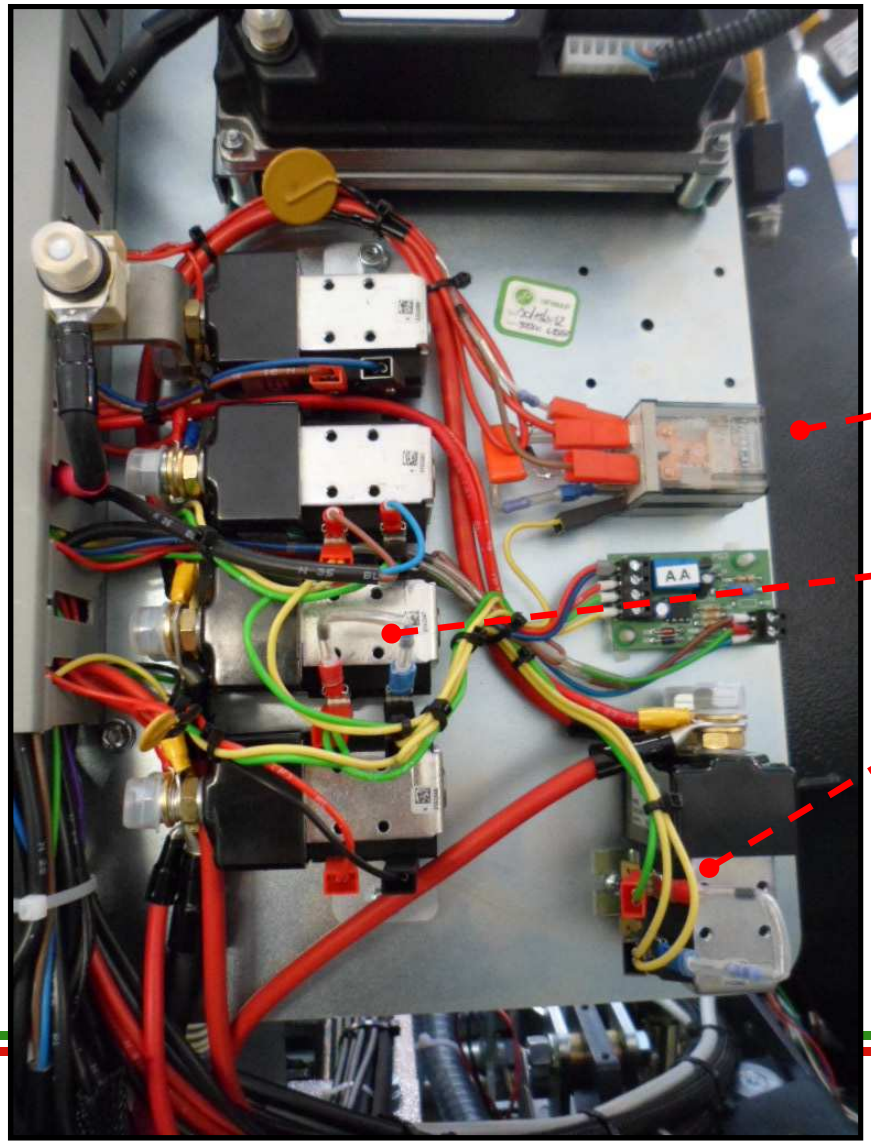
Electric System
- SMG 130 -

Side Brushes Out

Side Brushes In



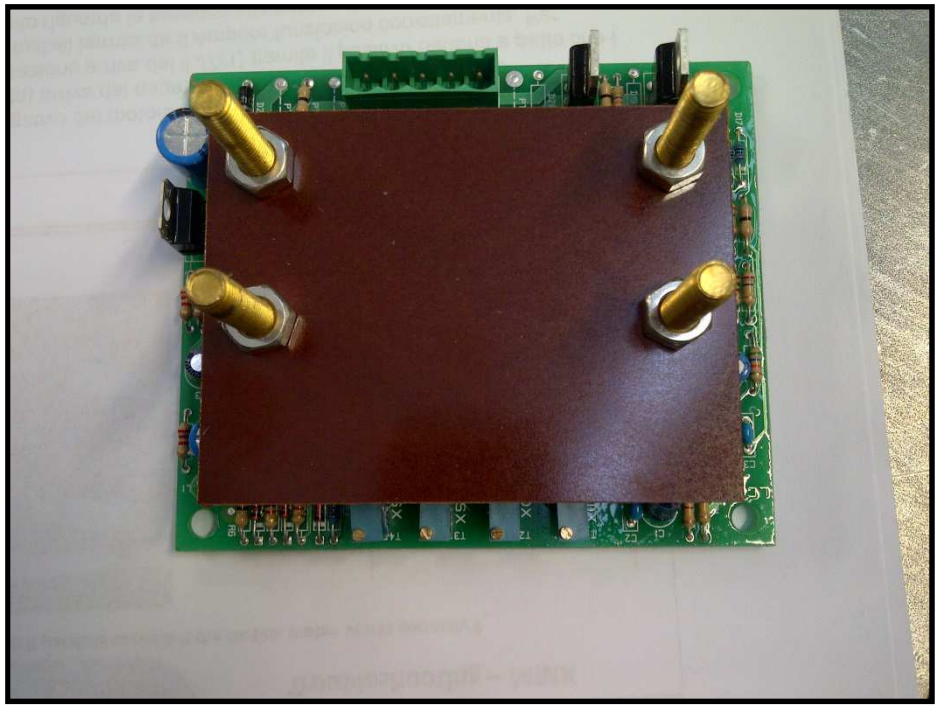
Electric System
- SMG 130 -

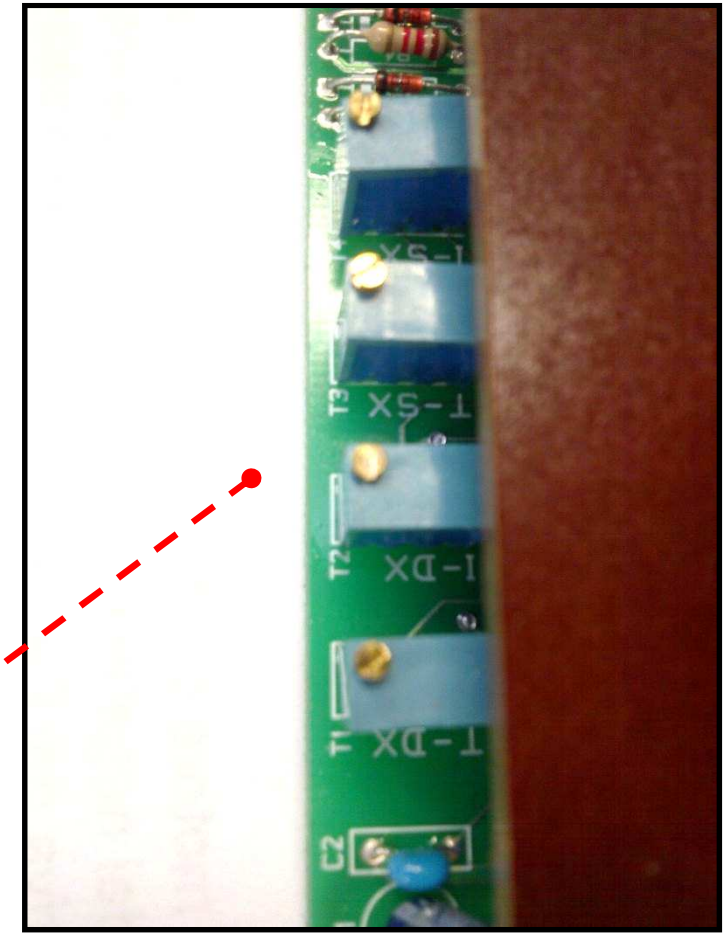


Relay – Side Brushes

Contactor Cylindrical
Brushes Motors

Electric System
- SMG 130 -

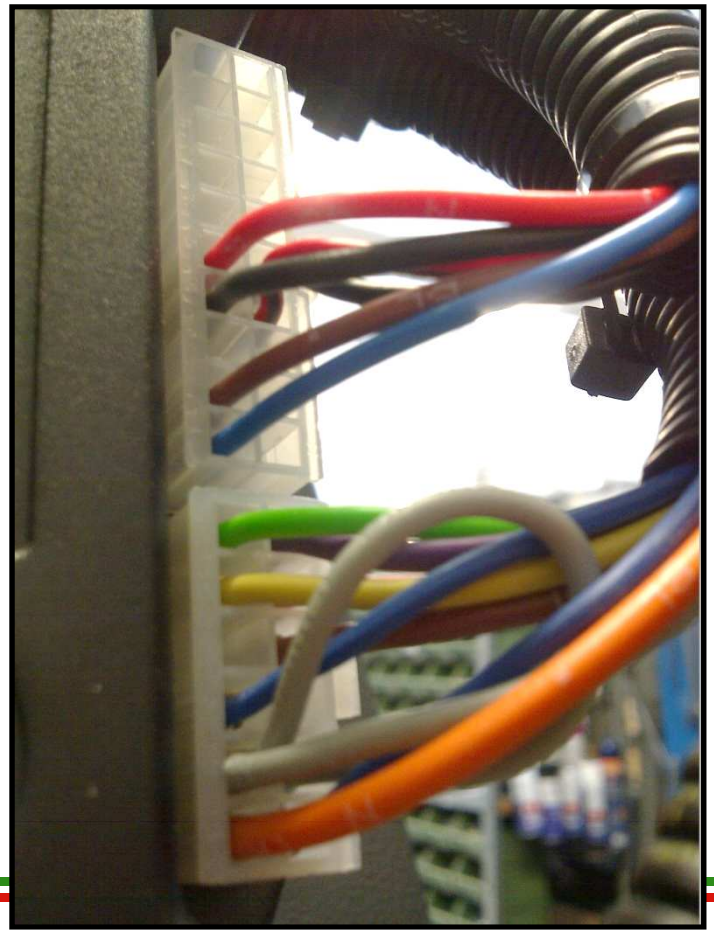


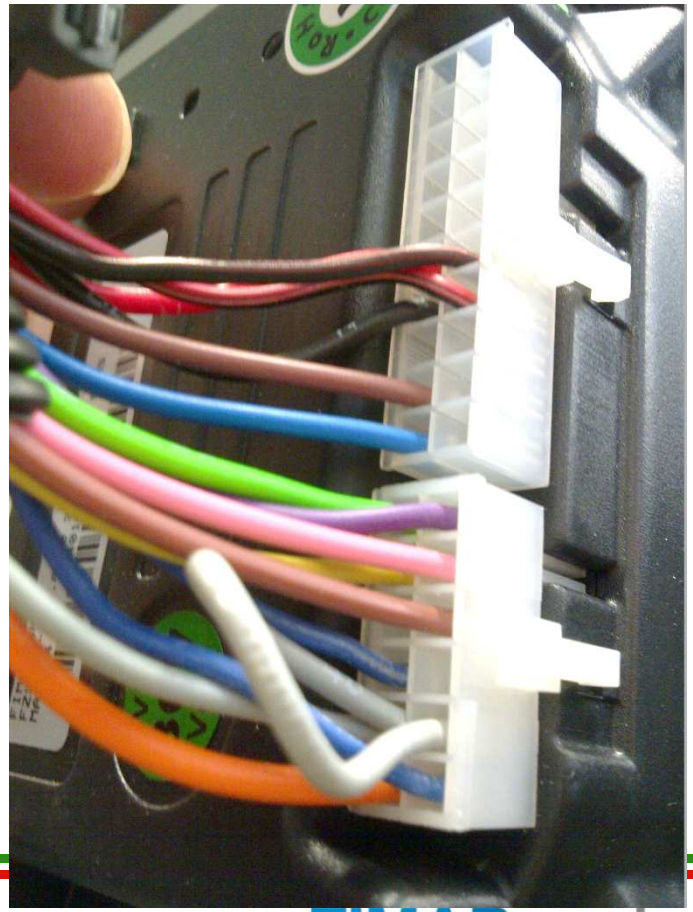


Check Card – Amperometric
Control Brushes Motors
(SMG 130)

Electric System

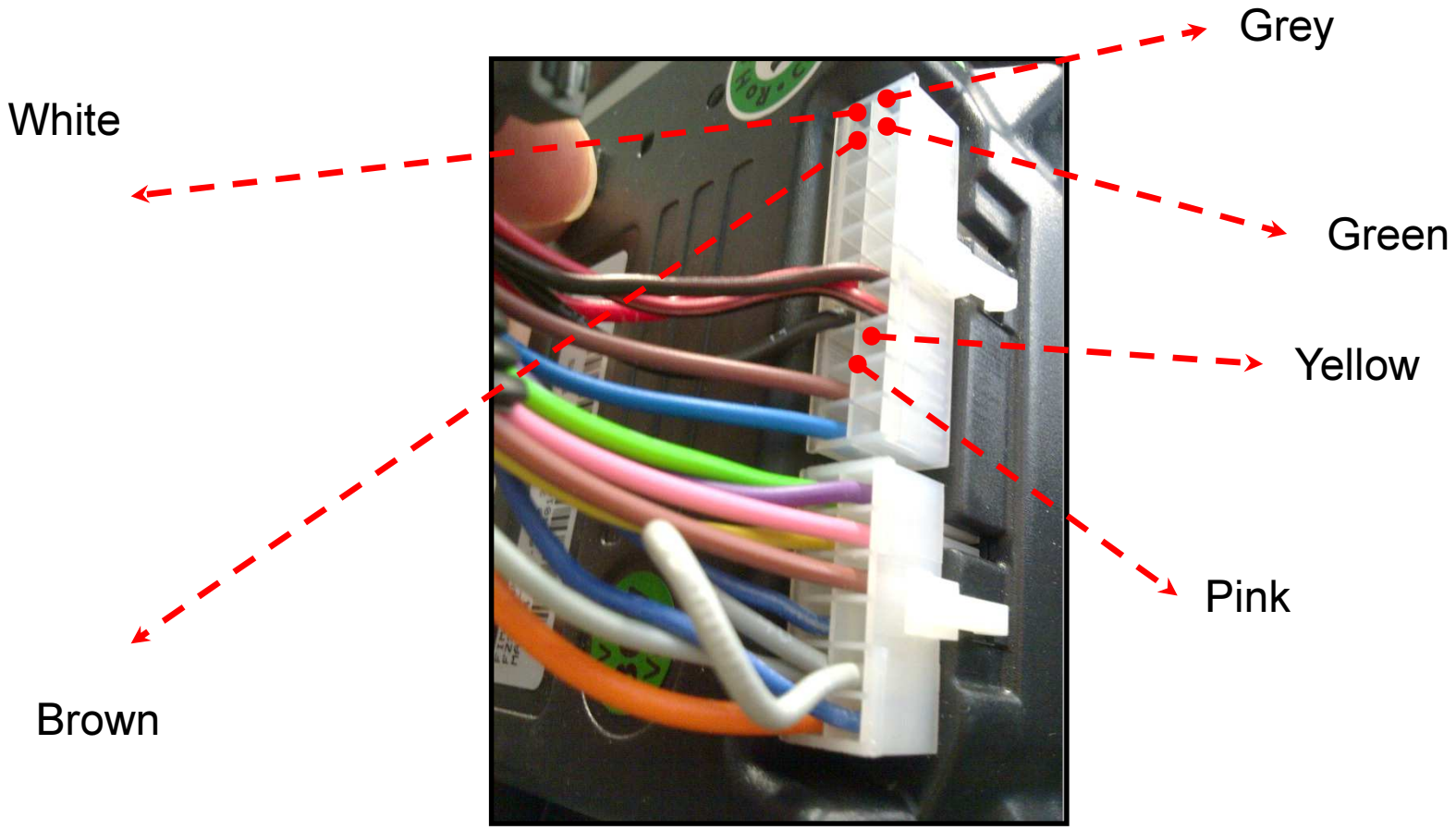
Input signals in chopper card without encoder wiring



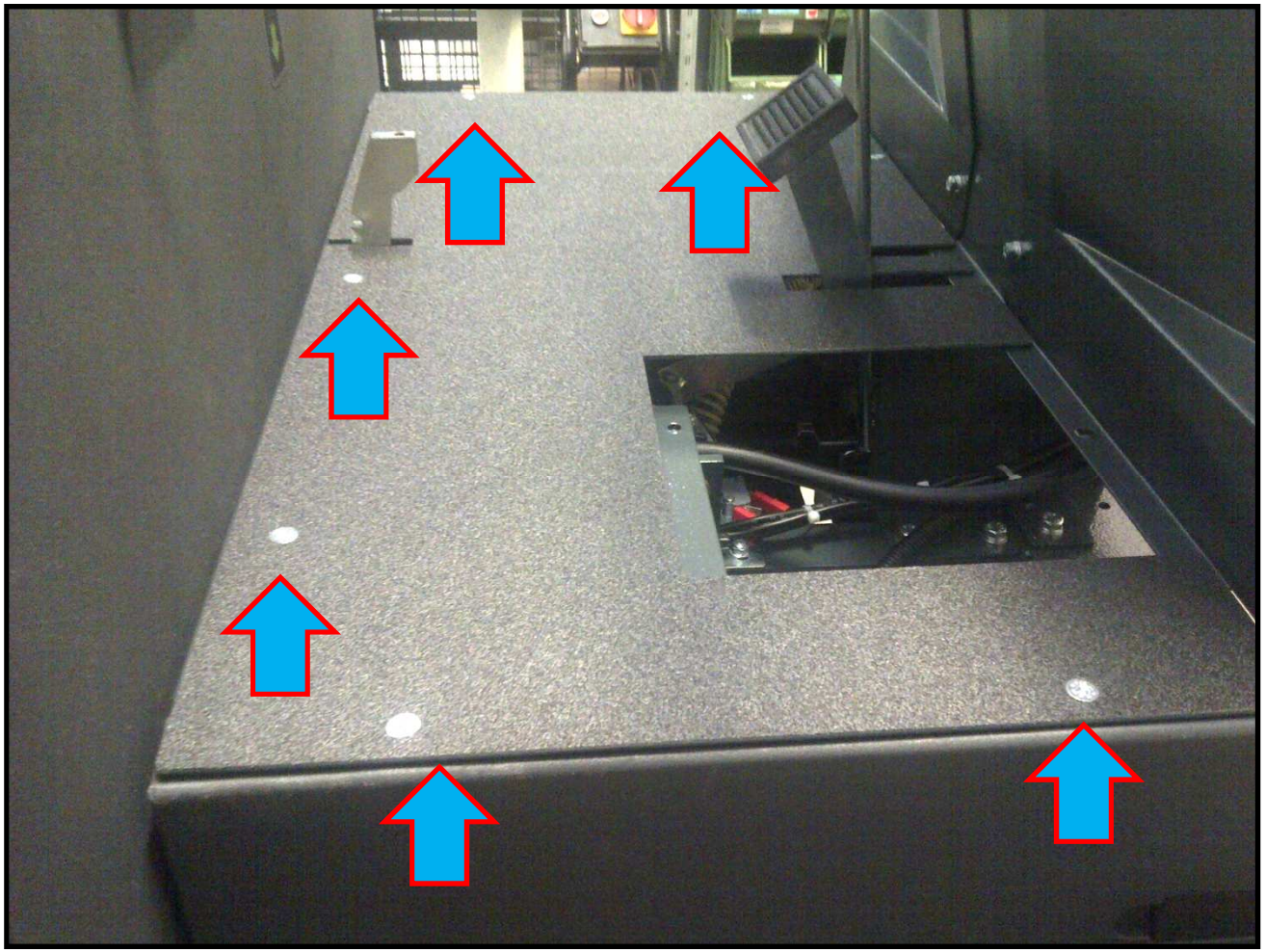


Electric System

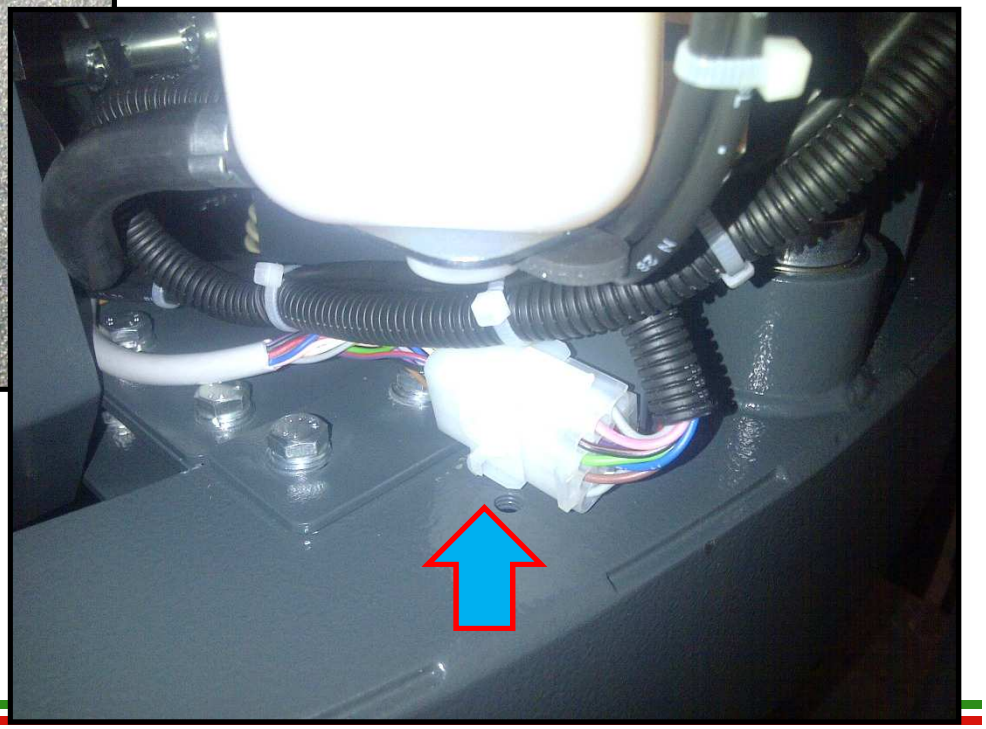
Input signals in chopper card with encoder wiring



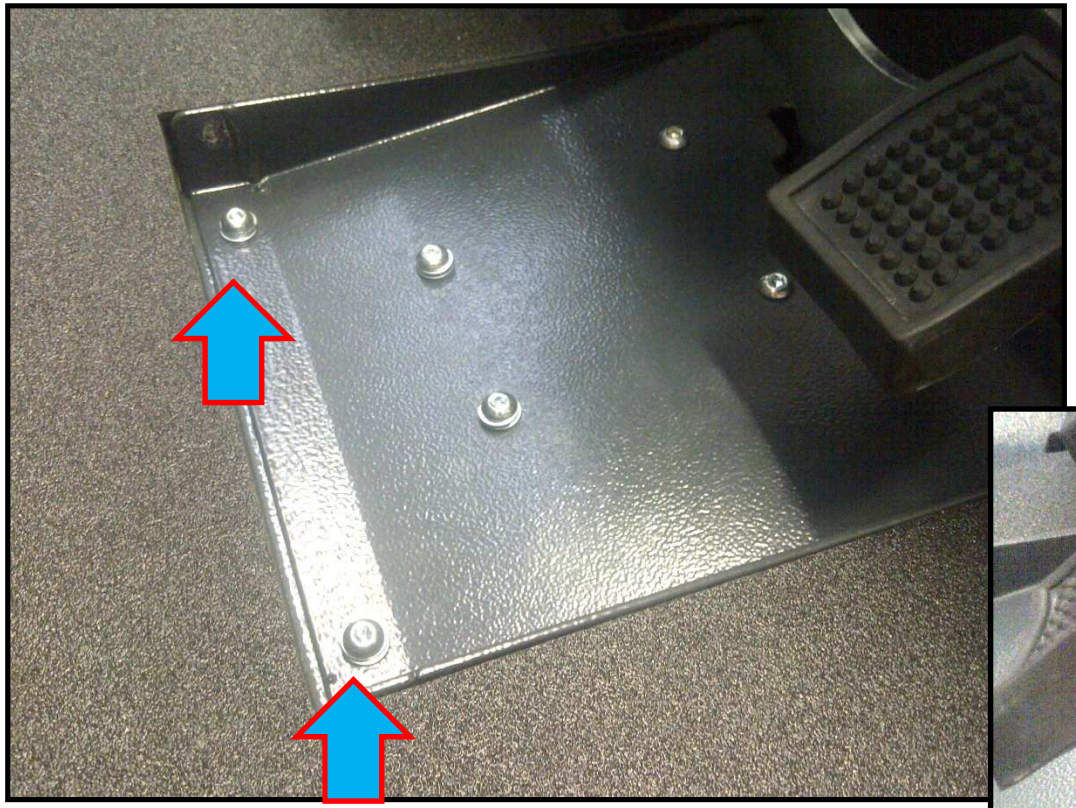
Service



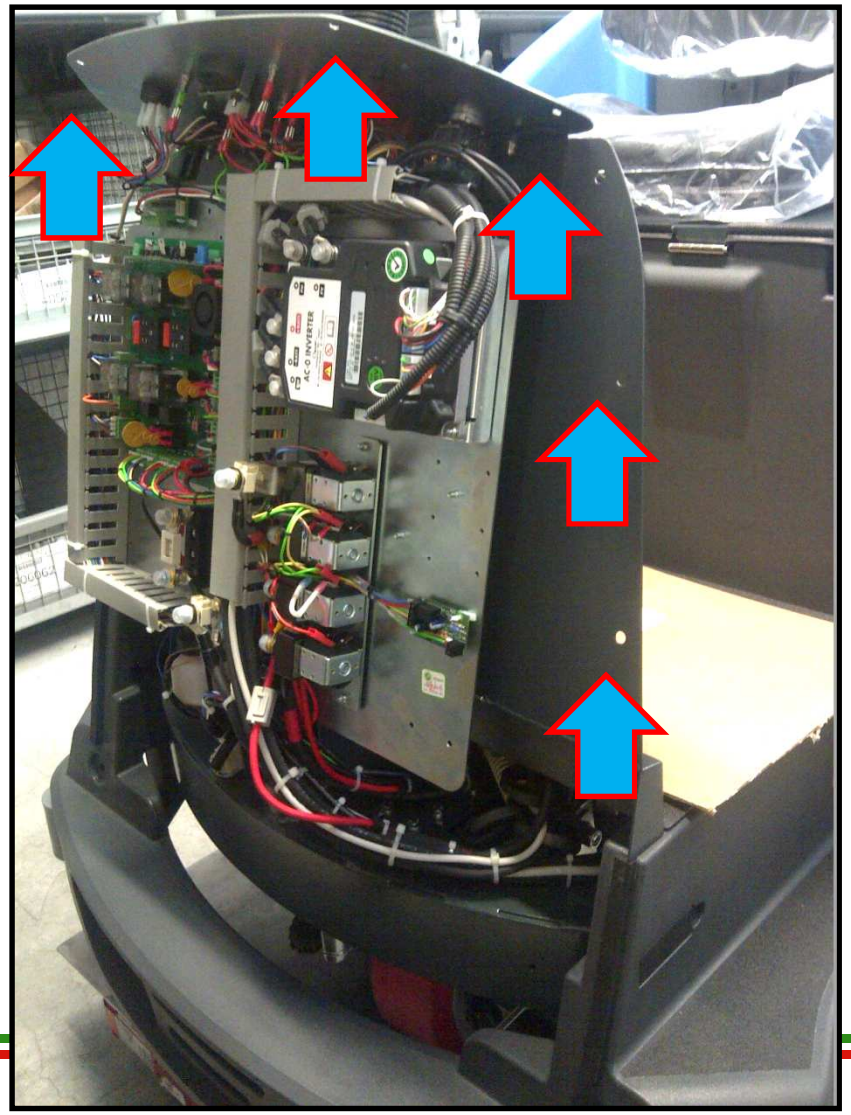
Service

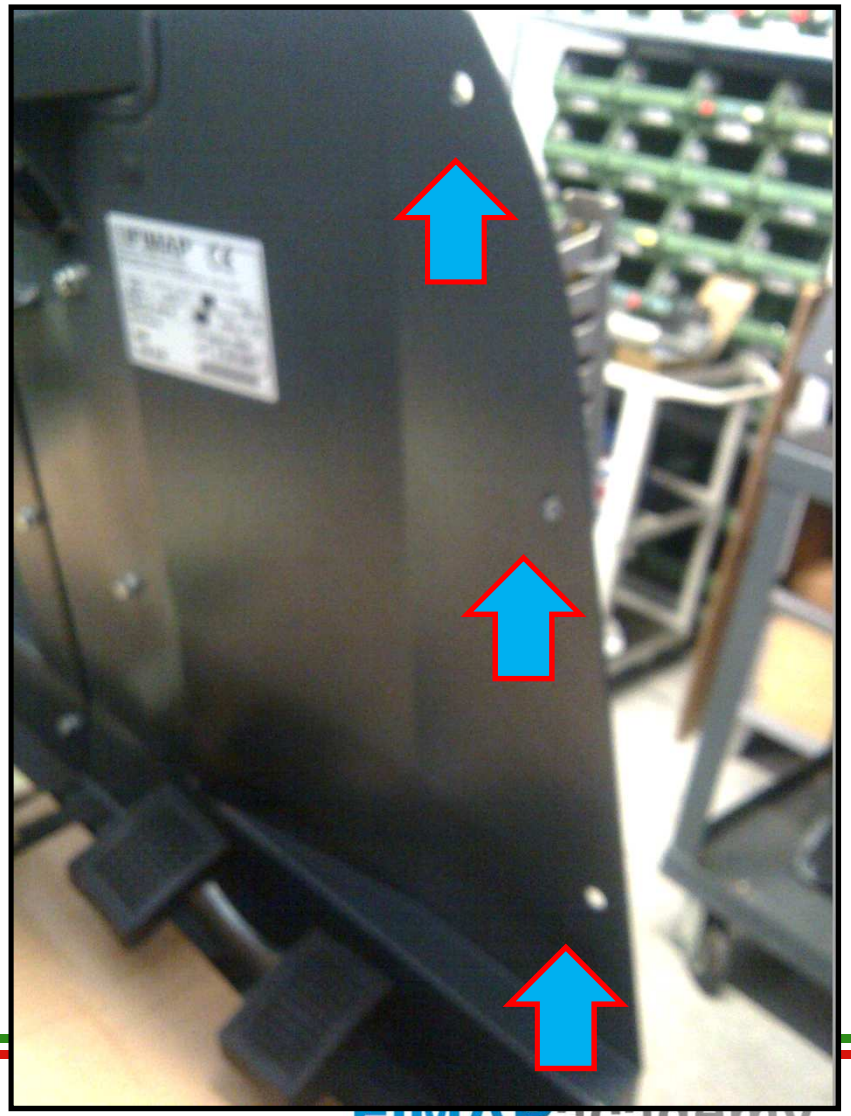


Service



Electric System





Service

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