INSTALLATION MANUAL

DOC. NO. 438.9205-35/03 EDITION 36.2006

EX6102c, EX6135c
EX6200c, EX6250c

Installation manual

EX6102c, EX6135c
EX6200c, EX6250c

Intentionally blank

SAFETY AND WARNINGS SIGNS

Replace If Missing Or Illegible

One or more of these signs must be affixed on each machine as indicated, when not included as part of the front instruction panel.

LOCATED ON THE OPERATING INSTRUCTION SIGN OF THE MACHINE:

CAUTION

1. Do not open washer door until cycle is completed, operating light is off, and wash cylinder has stopped rotating.
2. Do not tamper with the door safety switch or door lock.
3. Do not attempt to open door or place hands into washer to remove or add clothes during operation. This can cause serious injury.

MACHINE SHOULD NOT BE USED BY CHILDREN

PRECAUCION

1. No abra la puerta de la máquina lavadora sino hasta que la máquina haya terminado su ciclo, la luz operativa esté apaga da y el cilindro de lavado haya completamento terminado de girar.
2. No interferia o manipule el switch o la cerradura de la puerta.
3. No trate de abrir la puerta o meta las manos dentro de la máquina para meter o sacar ropa mientras la máquina está en operación, pues puede resultar seriamento herido.

LAS MÁQUINAS NO DEBEN SER USADAS POR NIÑOS

LOCATED AT THE REAR OF THE MACHINE:

INSTALLATION AND MAINTENANCE WARNINGS

1. **This machine MUST be securely bolted according to the installation instruction to reduce the risk of fire and to prevent serious injury, or damage to the machine.**
   Pour reduire les risques d'incendie, fixer cet appareil sur un plancher beton sans revetement.
2. **If installed on a floor of combustible material, the floor area below this machine must be covered by a metal sheet extending to the outer edges of the machine.**
3. **This machine MUST be connected to a dedicated electrical circuit to which no other lightning unit or general purpose receptacle is connected. Use copper conductor only.**
   Utiliser seulement des conducteurs en cuivre.
4. **This machine MUST be serviced and operated in compliance with manufacturer's instructions. CHECK DOOR LOCKS EVERY DAY FOR PROPER OPERATION TO PREVENT INJURY OR DAMAGE. IF THE DOOR LOCK FAILS TO OPERATE PROPERLY, PLACE THE MACHINE OUT OF ORDER UNTIL THE PROBLEM IS CORRECTED.**
5. **Disconnect power prior to servicing of machine.**
   Deconnecter cet appareil del'alimentation avant de proceder a l'entretien.
6. **To remove top panel, first remove screws at the rear. When remounting the top, reinstall them. To remove the top panel on models on which it is secured by one or two keylocks, use the keys originally shipped in the drum package. Be certain to relock after remounting the top panel.**

MANUFACTURED BY WASCATOR
DISTRIBUTED BY WASCOMAT INWOOD, NEW YORK, USA

471 7662-02

LOCATED ON THE DOOR:

If you need to order more safety or warning signs, call Wascomat's parts department at 516-371-2000, or call your local dealer.

WARNING !

DO NOT ATTEMPT TO OPEN DOOR
UNTIL PROGRAM HAS FINISHED AND
DRUM HAS STOPPED ROTATING.

471 7651-17

NOTICE TO: OWNERS, OPERATORS AND DEALERS OF WASCOMAT MACHINES

IMPROPER INSTALLATION AND INADEQUATE MAINTENANCE, POOR HOUSEKEEPING AND WILLFUL NEGLECT OR BYPASSING OF SAFETY DEVICES MAY RESULT IN SERIOUS ACCIDENTS OR INJURY. TO ASSURE THE SAFETY OF CUSTOMERS AND/OR OPERATORS OF YOUR MACHINE, THE FOLLOWING MAINTENANCE CHECKS MUST BE PERFORMED ON A DAILY BASIS.

1. Prior to operation of the machine, check to make certain that all operating instructions and warning signs are affixed to the machine and legible. (See the following page of this manual for description and location of the signs.) Missing or illegible ones must be replaced immediately. Be sure you have spare signs and labels available at all times. These can be obtained from your dealer or Wascomat.

2. Check the door safety interlock, as follows:

   (a) OPEN THE DOOR of the machine and attempt to start in the normal manner:

   For CLARUS microprocessor models, choose a program and press the START button.

THE MACHINE(S) MUST NOT START !

   (b) CLOSE THE DOOR to start machine operation and, while it is operating, attempt to open the door without exerting extreme force on the door handle. The door should remain locked!

   If the machine can start with the door open, or can continue to operate with the door unlocked, the door interlock is no longer operating properly. The machine must be placed out of order and the interlock immediately repaired or replaced. (See the door interlock section of the manual.)

3. DO NOT UNDER ANY CIRCUMSTANCES ATTEMPT TO BYPASS OR REWIRE ANY OF THE MACHINE'S SAFETY DEVICES, AS THIS CAN RESULT IN SERIOUS ACCIDENTS.

4. **Be sure to keep the machine(s) in proper working order**: Follow **all** maintenance and safety procedures. Further information regarding machine safety, service and parts can be obtained from your dealer or from Wascomat through its Technical Support Department - 516/371-0700.

All requests for assistance must include the model, serial number and electrical characteristics as they appear on the machine identification plate. Insert this information in the space provided on the previous page of this manual.

5. **WARNING**: DO NOT OPERATE MACHINE(S) WITH SAFETY DEVICES BYPASSED, REWIRED OR INOPERATIVE! DO NOT OPEN MACHINE DOOR UNTIL DRUM HAS STOPPED ROTATING!

Contents

Intentionally blank

Technical data

	EX6102c	EX6135c
Innerdrum, volume ft³/litres	14.1/400	21.2/600
diameter inch/mm	36 1/4/920	38 9/16/980
Drum speed,		
wash rpm	37	36
extraction max rpm	825	800
Heating		
steam	x	x
hot water	x	x
G-factor	350	350
Weight, net lb/kg	2413-3196/1095-1450*	3042-3262/1380-1480*

* Precise weight depends on accessories fitted.

Connections

	EX6102c	EX6135c
Water valves		
connection DN	32	32
	1 1/4"	1 1/4"
recommended water psi	30-90	30-90
pressure, valve open kPa	200-600	200-600
Functioning limits psi	10-145	10-145
for water valve kPa	50-1000	50-1000
Capacity at gallon/min	37	37
300 kPa l/min	150	150
Drain valve outer Ø inch/mm	4 5/6/110	4 5/6/110
Draining capacity l/min	400	400
gallon/min	100	100
Steam valve		
connection DN	20	20
	3/4"	3/4"
rec. steam pressure kPa	300-600	300-600
psi	45-90	45-90
operating range		
of steam valve kPa	50-800	50-800
psi	8-120	8-120
Compressed air		
connection DN	6	6
	1/8"	1/8"
rec. air pressure kPa	500-700	500-700
psi	30-60	30-60
consumption l/h	20	20
gallon/h	5	5

Technical data

	EX6200c	EX6250c
Innerdrum, volume ft³/litres	30/850	39/1100
diameter inch/mm	48 1/16 / 1220	48 1/16 / 1220
Drum speed,		
wash rpm	42	42
extraction max rpm	720	663
Heating		
steam	x	x
hot water	x	x
G-factor	350	300
Weight, net lb/kg	4850-5070/2200-2300*	5070-5290/2300-2400*

* Precise weight depends on accessories fitted.

Connections

	EX6200c	EX6250c
Water valves		
connection DN	40	40
	1 1/2"	1 1/2"
recommended water psi	45-90	45-90
pressure, valve open kPa	300-600	300-600
Functioning limits psi	8-145	8-145
for water valve kPa	40-1000	40-1000
Capacity at gallon/min	87	87
300 kPa l/min	350	350
Drain valve outer Ø inch/mm	6 5/16 / 160	6 5/16 / 160
Draining capacity l/min	400	400
gallon/min	100	100
Steam valve		
connection DN	32	32
	1 1/4"	1 1/4"
rec. steam pressure kPa	300-600	300-600
psi	45-90	45-90
operating range		
of steam valve kPa	50-800	50-800
psi	8-120	8-120
Compressed air		
connection DN	6	6
	1/8"	1/8"
rec. air pressure kPa	200-400	200-400
psi	30-60	30-60
consumption l/h	20	20
gallon/h	5	5

Technical data

	EX6102c	EX6135c	EX6200c	EX6250c
Frequency of the dynamic force Hz	13.8	12.7	12.0	11.1
Max floor load lbs force at extraction kN	3865±181 16±0.75	3841±1546 15.9±6.4	5315 ± 1764 22 ± 7.3	5798 ± 1764 24 ± 7.3

Sound levels

Airborne sound level dB (A) re $2x10^{-5}$ Pa	75	76	85	85

Motor

Power consumption hp/kW	7.6/5.5	8.3/6	25/18	25/18

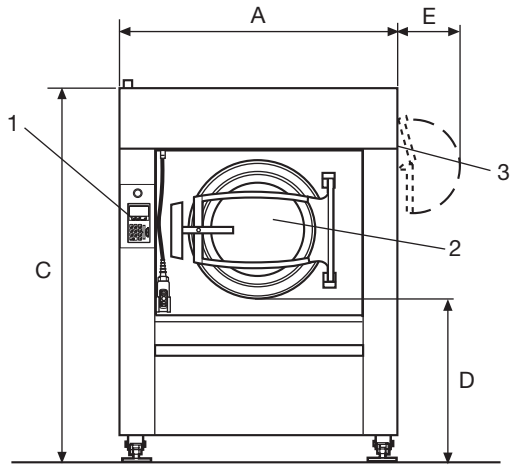
Technical data

Dimensions

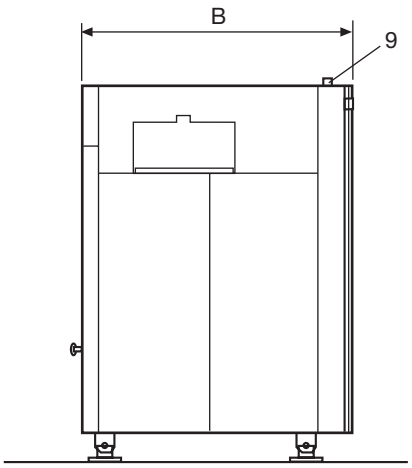
1	Control panel
2	Door opening ø 700 mm/29 9/16"
3	Soap supply injector, powder (optional)
4	Cold water connection
5	Hot water connection
6	Third water connection (optional)
7	Steam connection
8	Drain
9	Electrical connection
10	Compressed air
11	External liquid supply, 6 pcs ø 10, 1 pc ø 16 and 1 pc ø 20
12	Water connection, soap supply injector (optional)

in inch	A	B	C	D	E	F	G	H	I	K
EX6102c	52 3/16	57 1/16	79 5/16	35 13/16	11 13/16	73 7/16	52 3/16	32 5/16	16 9/16	17 1/8
EX6135c	54 3/4	63	79 5/16	38 3/16	11 13/16	72 13/16	52 3/16	35 5/16	20 11/16	16 3/4

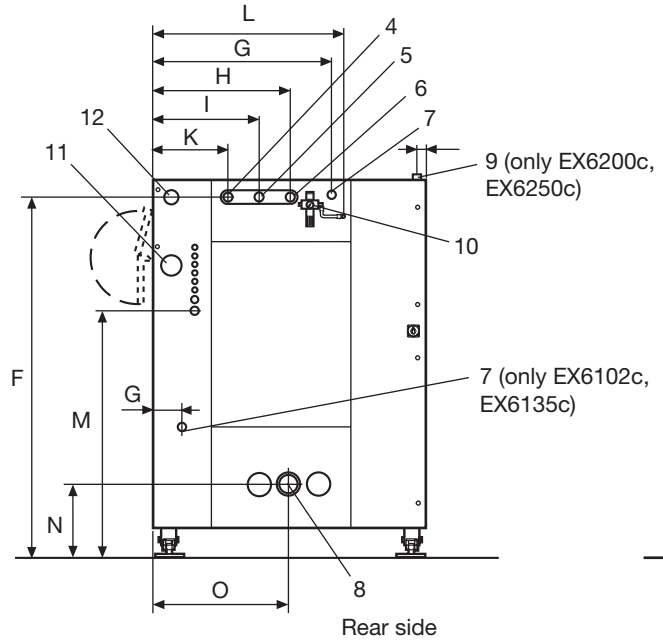
in inch	L	M	N	O	P	R	S	T	U	V
EX6102c	16 3/4	20 11/16	26	88	37 3/8	32 11/16	14 9/16	86 13/16	44 7/8	13 9/16
EX6135c	33 7/8	61 5/8	16 9/16	16 15/16	86 5/8	44 1/8	85 13/16	37 3/8	10 13/16	10 13/16



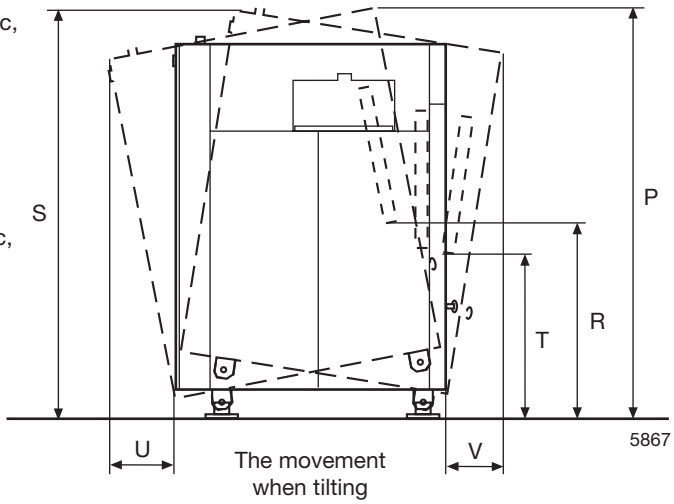
Front



Right side



Rear side



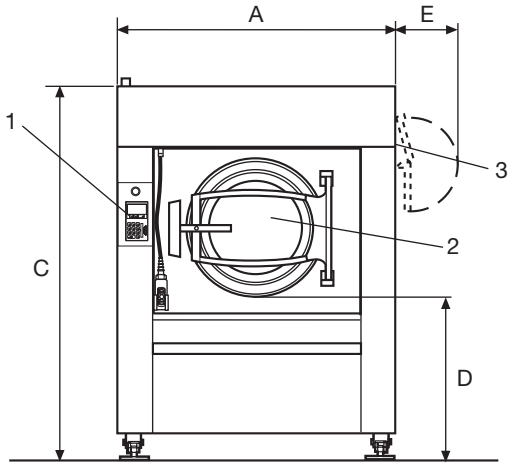
The movement when tilting

Dimensions

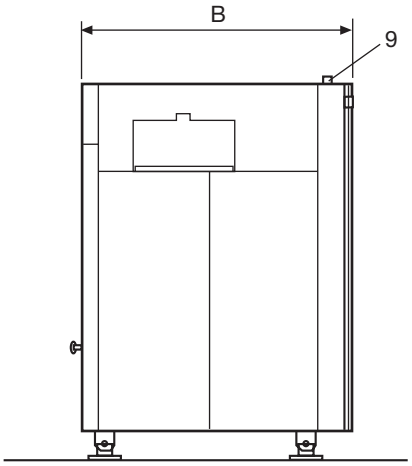
1	Control panel	**7**	Steam connection
2	Door opening ø 700 mm/29 9/16"	**8**	Drain
3	Soap supply injector, powder (optional)	**9**	Electrical connection
4	Cold water connection	**10**	Compressed air
5	Hot water connection	**11**	External liquid supply, 6 pcs ø 10, 1 pc ø 16 and 1 pc ø 20
6	Third water connection (optional)	**12**	Water connection, soap supply injector (optional)

in inch	A	B	C	D	E	F	G	H	I	K
EX6200c	64 9/16	64 3/16	87 13/16	38 3/16	14 15/16	84 1/16	42 1/8	32 1/2	25	17 1/2
EX6250c	64 9/16	72 5/8	87 13/16	38 3/16	14 15/16	84 1/16	42 1/8	32 1/2	25	17 1/2

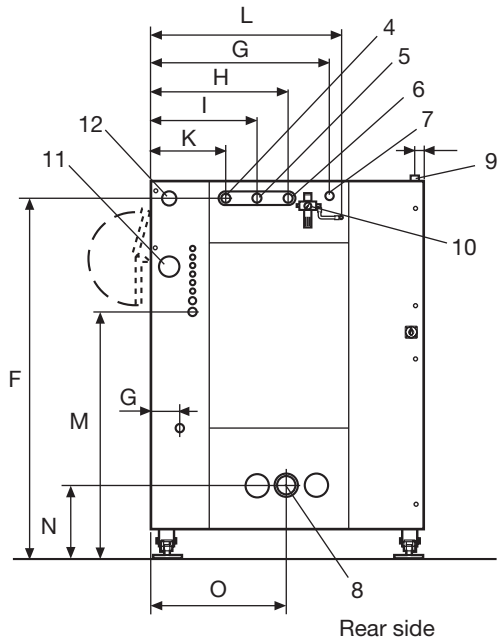
in inch	L	M	N	O	P	R	S	T	U	V
EX6200c	44 7/8	63 3/4	17 3/8	32 3/8	95 1/8	48 1/2	95 3/4	39 3/4	10 7/16	15 3/4
EX6250c	44 7/8	63 3/4	17 3/8	32 3/8	95 1/8	48 1/2	95 3/4	39 3/4	9 7/16	13 3/16



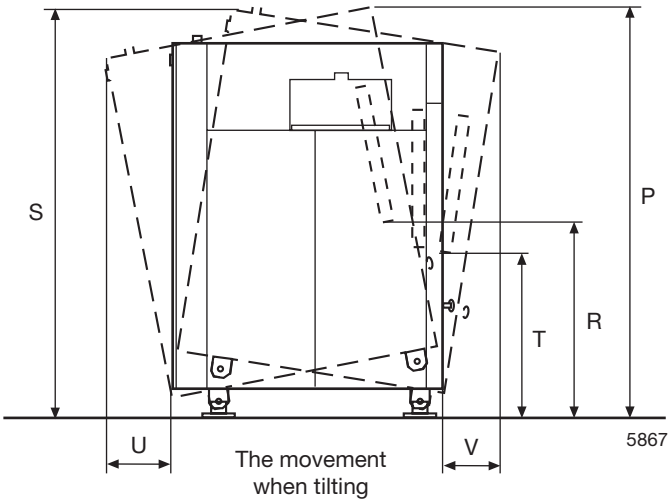
Front



Right side



Rear side



The movement when tilting

Installation

For the installation of machines with optional equipment (such as the tilt function), see also the section ”Optional equipment” at the end of this manual.

The washer extractor is supplied bolted in place on a pallet and packaged in a delivery crate. In some cases the machine may be supplied in waterproof/dustproof packaging. The direction from which the machine must be lifted and the machine centre of gravity are shown on the packaging.

Location and surface

The machine must not be sited over an open floor drain. Check that the floor has an even surface and is level. The floor must be capable of withstanding the following: See "Technical data".

The following clearances are recommended:

(1)
- at least 3 ft/1 metre between the machine and any wall behind it.
- at least 2 ft/0.6 metres at each side, between the side of the machine and a wall, or between machines where these are side by side.

Mechanical installation

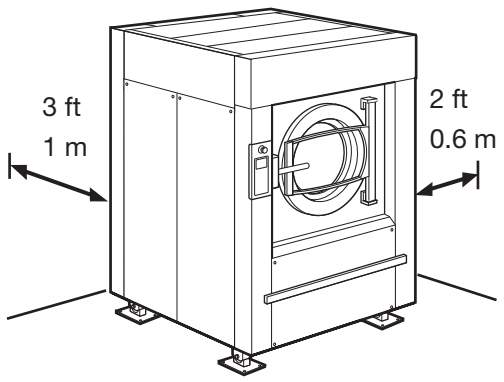
(2)
- Remove the packaging material. Remove the machine’s rear cover, side panels and lower front panel.

(3)
- Remove the four bolts securing the machine’s outer frame onto the pallet.

Machine equipped with weight measurement

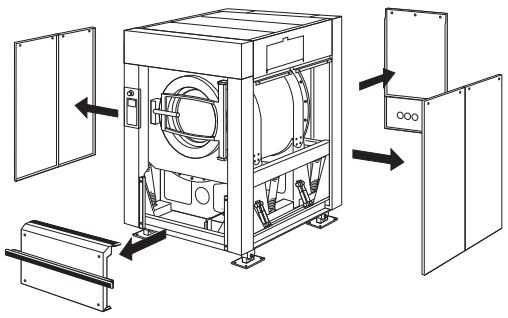
The load cells, which are fitted by the machine’s feet, are sensitive to knocks and impacts.

1



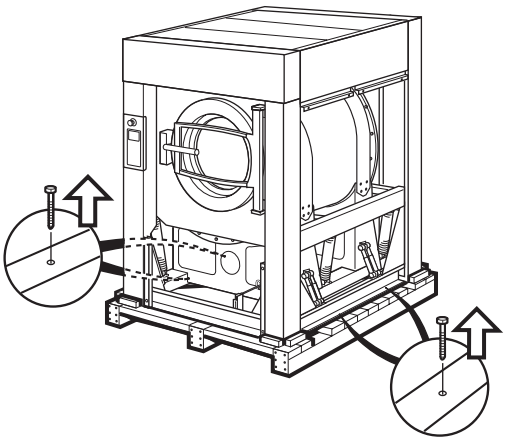
5541

2



5542

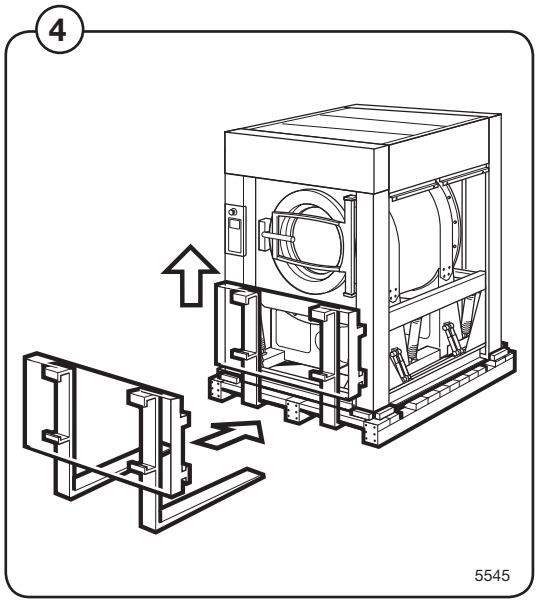
3

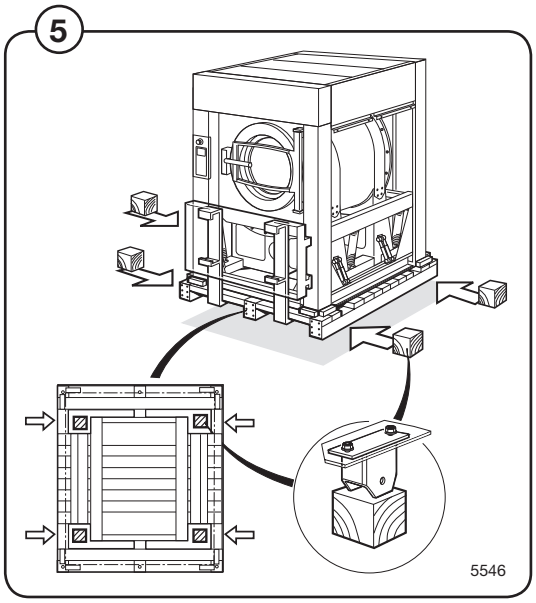


5543

(4) • Use a fork-lift truck to lift the machine.

(5) • Position the four blocks of wood supplied, one beneath each machine foot (on the outer frame), within the recesses in the pallet.



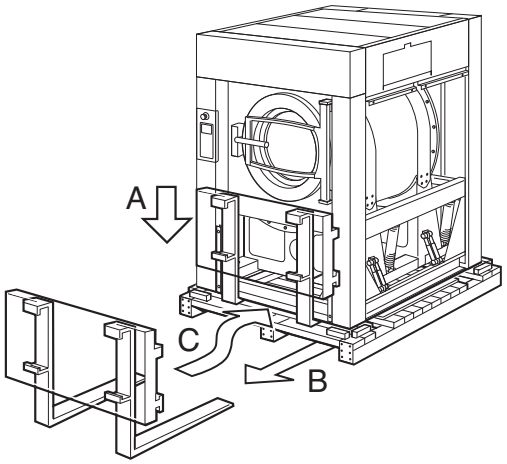


(6)
- Lower the machine (A) and withdraw the truck forks (B). The machine should now be standing on the four blocks, and the pallet will be on the floor, clear of the machine. The next step is to insert the truck forks very carefully between machine and pallet (C).

(7)
- Lift the machine and remove pallet and blocks.

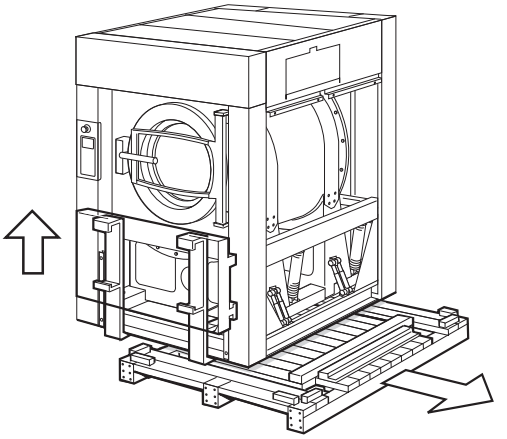
(8)
- Screw on the machine's feet. The feet can be of two types: fixed feet or rotating feet if the machine is to be fitted with tilt.
- If the machine is to have the tilt function, this is a suitable time to install the corner posts which hold the protective plates, and also, where applicable, the position sensors (see the section "Tilt function (optional equipment)").
- It is important that the wheels are installed with the wider side facing in towards the machine in order for the tilt protection to fit.

6



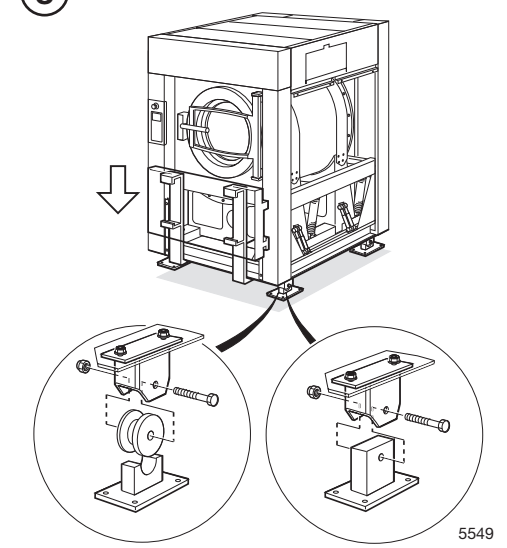
5547

7



5548

8



5549

(9) • Put the machine in place. Mark out and drill the holes for fixing the feet. Hole diameter: 15 mm / 9/16".

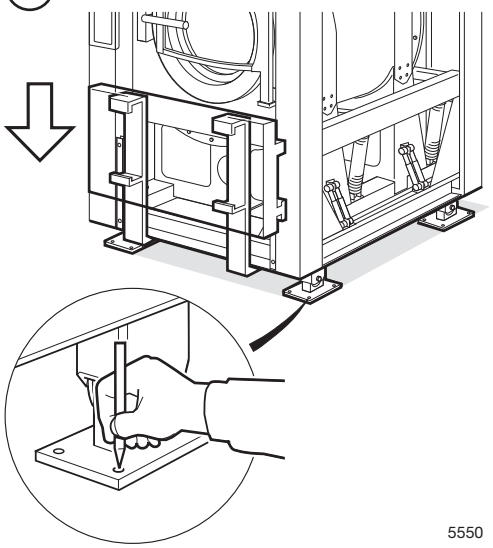
(10)

mm	EX6102c	EX6135c	EX6200c	EX6250c
A	1330	1390	1640	1640
B	1445	1580	1630	1845
C	1170	1325	1380	1600
D	50	45	45	45
E	200	200	200	200
F	140	140	140	140
G	335	335	335	335
H	335	335	335	335
I	275	275	270	270
K	715	870	925	1140
L	665	695	820	820

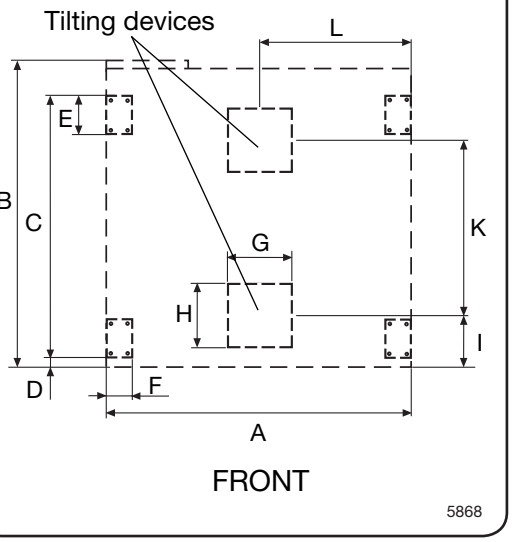
inch	EX6102c	EX6135c	EX6200c	EX6250c
A	52 3/8	54 3/4	64 9/16	64 9/16
B	56 7/8	62 3/16	64 3/16	72 5/8
C	46 1/16	52 3/16	54 5/16	63
D	2	1 3/4	1 3/4	1 3/4
E	7 7/8	7 7/8	7 7/8	7 7/8
F	5 1/2	5 1/2	5 1/2	5 1/2
G	13 3/16	13 3/16	13 3/16	13 3/16
H	13 3/16	13 3/16	13 3/16	13 3/16
I	10 13/16	10 13/16	10 5/8	10 5/8
K	28 1/8	34 1/4	36 7/16	44 7/8
L	26 3/16	27 3/8	32 5/16	32 5/16

(11) **Use a spirit level and, where necessary, the ”washers” (or rectangular metal plates) supplied, to ensure that the floor mountings are level.**

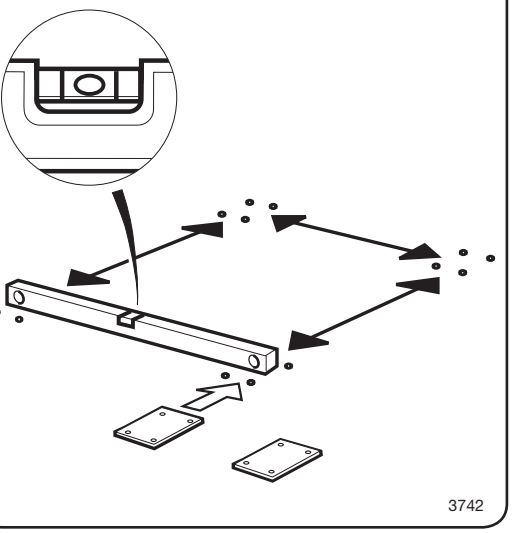
9



10

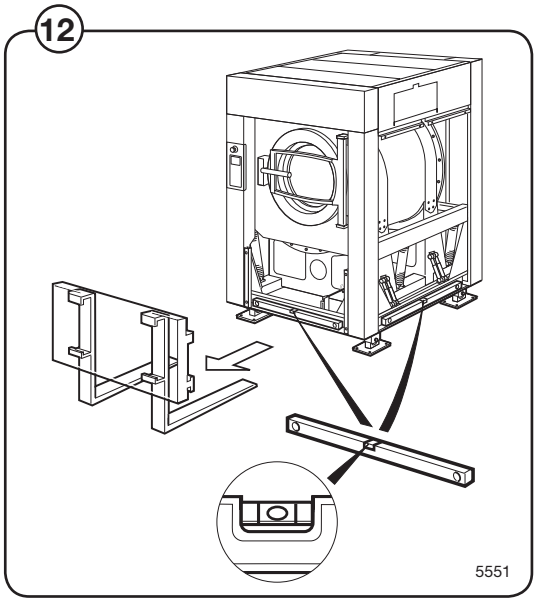


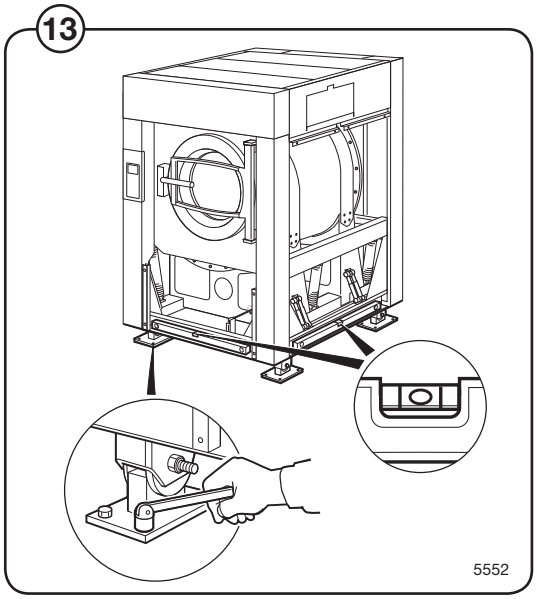
11



(12) • Put the machine in place. Use a spirit level on suitable surfaces of the outer frame to check that the machine is level. Check too that the machine is resting firmly on all four feet.

(13) • Bolt the machine feet to the floor. Then check again that the machine is resting firmly (without movement) and is level.





Connecting the water supply

(14) The supply pipes to the machine should be fitted with manual shut-off valves to facilitate installation and service. Fit the filters supplied to the manual shut-off valves. Refer to local utilities regulations when fitting non-return valves.

The hoses should be rated for high pressure and for 2.5 MPa/370 psi.

The following values apply to water pressure:

- recommended: 300-600 kPa/45-90 psi (valve fully open)
- limiting values, min: 40 kPa/8 psi max: 1 MPa/145 psi

The hoses should be flushed through before being connected to the machine.

The hoses should hang in gradual arcs. This is particularly important if the machine is fitted with a tilting function. Connections with pipes directly to the machine are not allowed.

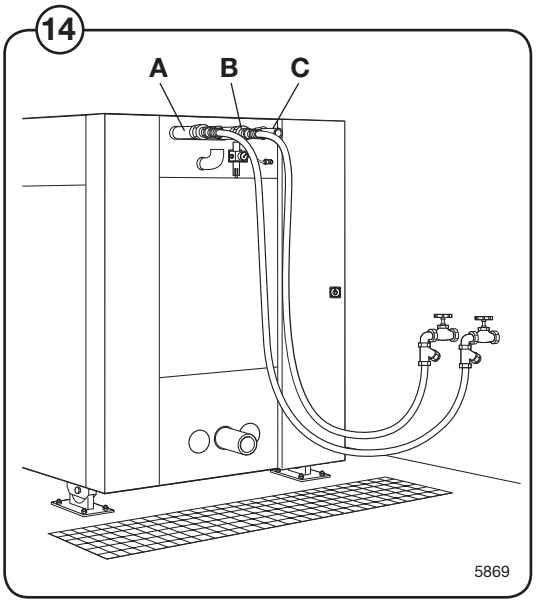
Connect the hoses as follows:

- cold water to (A)
- hot water to (B)
- (if using a third water supply:) the third water hose to (C).

  Sizes of A, B and C: DN 40 (1 1/2").

  EX6102c, EX6135c
  Sizes of A, B and C: DN 32 (1 1/4" BSP).

  EX6200c, EX6250c
  Sizes of A, B and C: DN 40 (1 1/2" BSP).



Steam supply

(15) The supply hose (A) must have a manual shut-off valve to make installation and servicing easier. Fit the filters supplied to the manual shut-off valve. Connections with pipes directly to the machine are not allowed.

Connect an approved hose between filter and machine. The following values apply to steam pressure:

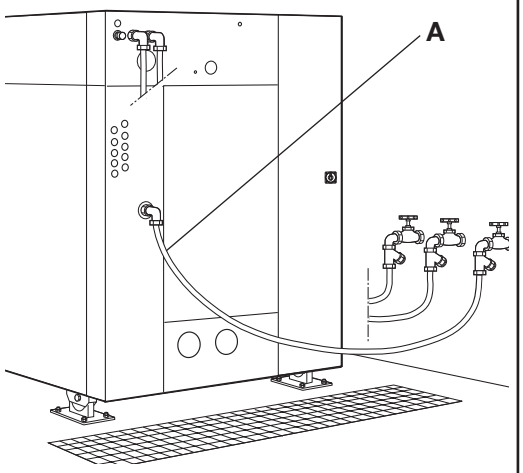
- recommended: 300-600 kPa/45-90 psi
- limiting values, min: 50 kPa/8 psi
  max: 800 kPa/120 psi

The hose should hang in a gradual arc. This is particularly important if the machine is fitted with a tilting function.

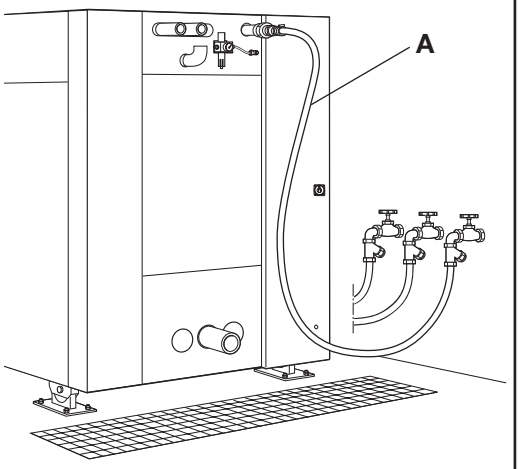
EX6102c, EX6135c
Connection size: DN 20 (3/4" BSP).

EX6200c, EX6250c
Connection size: DN 32 (1 1/4" BSP).

(15)



EX6102c, EX6135c 4138



EX6200c, EX6250c 5870

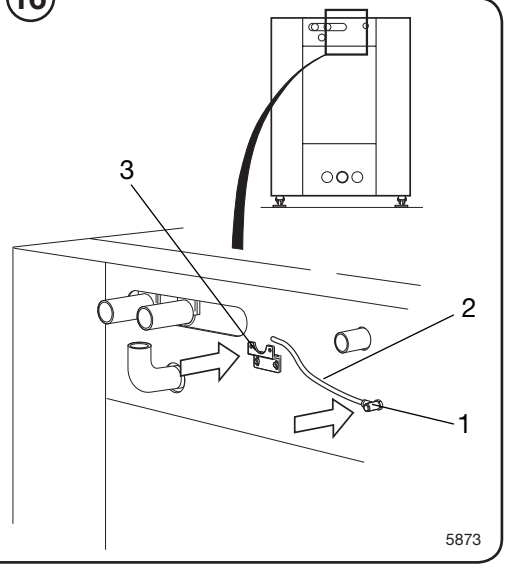
Compressed air connection

(16) A pressure regulator complete with water separation device is to be installed on the machine. When the machine is supplied, the angled coupling (1), hose (2) and bracket (3) for the pressure regulator will already be installed.

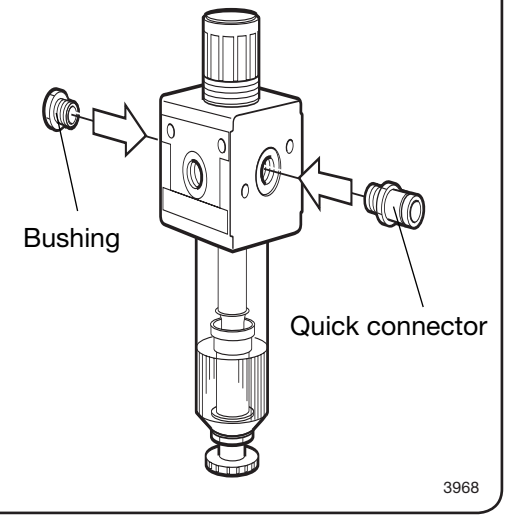
(17) Install the quick-connector for the hose and a bushing (for the hose from the compressed air supply) on the pressure regulator.

(18) Install the regulator on the bracket using two screws. Connect the compressed air hose using the quick-connector. Screw on the pressure gauge (1).

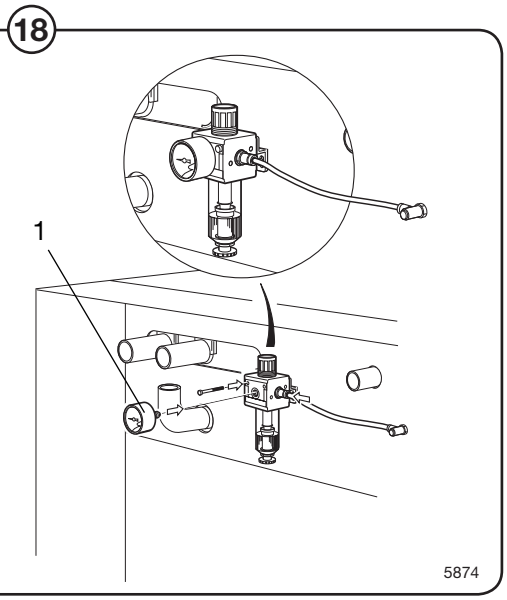
16



17



18

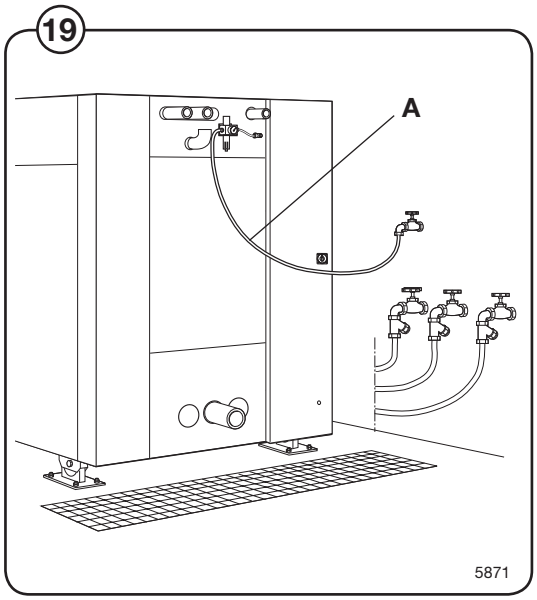


(19) Connect the hose from the compressed air supply to the bushing on the pressure regulator. Connect the hose so it hangs in a gentle arc. This is particularly important if the machine has the tilt function.

The connecting hose must be rated for a pressure of at least 1 MPa/145 psi.

The following values apply to the compressed air supply:

- Recommended pressure: 200-400 kPa/ 30-60 psi.

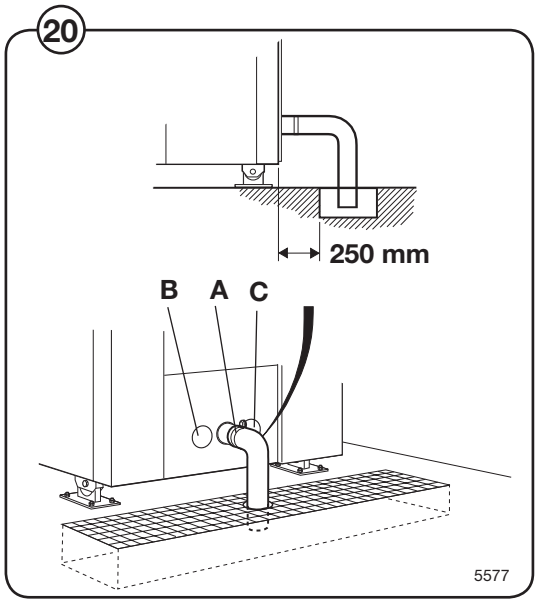


Drain

(20) The connector for the machine discharge (A) has an external diameter of 4 3/8" / 110 mm. The distance between the machine and the floor gully or drainage channel should be at least 10" / 250 mm.

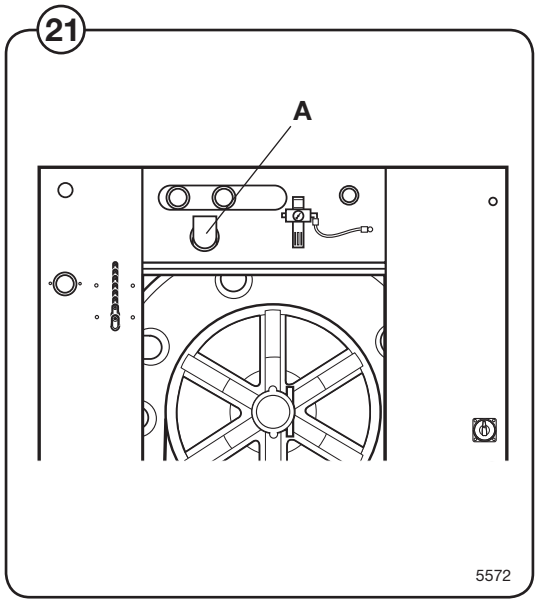
Connect a hose or a pipe to the drain connection. Avoid acute angles or kinks which could impede the flow. The hose or pipe should open into a floor gully, drainage channel or similar waste outlet. Make sure that the hose's function is unaffected by the tilting function if the machine has this feature.

If the machine has a second discharge, B and C must also be connected to the floor drain.



Ventilation

(21) The vent (A) from the washing machine drum is at the back of the machine. If bleach or other additives are used, the pipe should be extended and connected to a ventilation system.



Detergent dispenser, non-liquid detergents

If only non-liquid detergents are to be used in the detergent dispenser, the following adaptation is recommended:

(22) Drill two 3/16" / 5 mm holes in the bottom of each scoop to allow any water left to drain off.

Installation of equipment for external liquid supply

Electrical installation may only be carried out by competent, authorised personnel.

All external equipment which is connected to the machine must be CE/EMC-approved.

(23) The machine is fitted with 8 connections as standard , A (6 x ø10, 1 x ø16 and 1 x ø20), which are intended for connecting hoses from an external dispensing system.

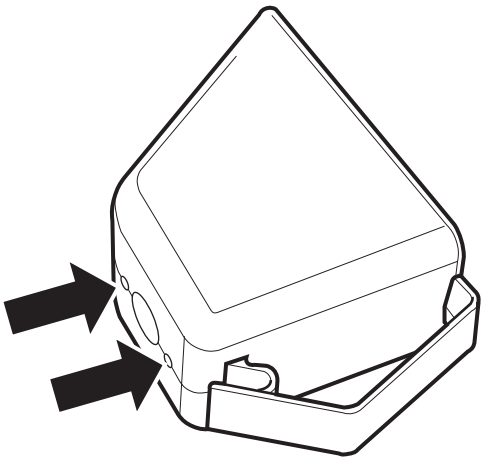
EX6135c, EX6200c, EX6250c

(24) External supply equipment is connected to X146 on the top row of terminals in the automatic control unit. There is a total of 13 outputs for detergent dosage.

The terminal numbering corresponds to the numbering used in the liquid detergent function in programming.

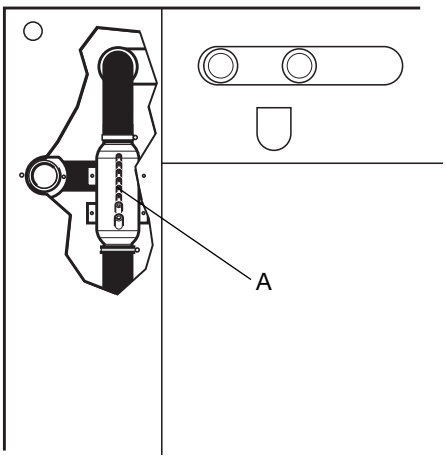
Common neutral for all outputs is on terminal X146:14 230V max 0.5 A only intended for control voltage.

22



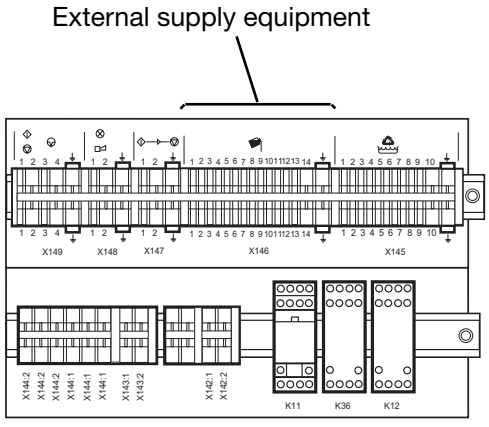
0355

23



5875

24

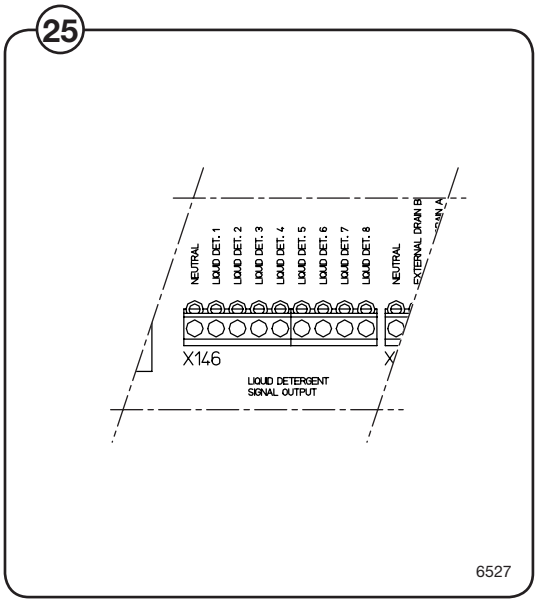


6069

EX6102c

(25) The external dosage unit connects to the X146 via the upper terminal in the coin operation unit. There are a total of 8 outlets for the dosing of washing detergent. The number on the terminal corresponds to the numbering of the liquid detergent function when setting the wash programme.

A common zero for all the outlets can be found on the X146 terminal ”Neutral”. 230 V max 0.5 A only intended for control voltage. If the machine is not fitted with a detergent reservoir, then additional signals can be received from X140.



Electrical installation

Electrical installation may only be carried out by competent, authorised personnel. Check that the earth conductor is correctly connected.

The electrical cable for the machine's power supply should hang in a gentle arc. This is particularly important if the machine is equipped with the tilt function or weighing equipment.

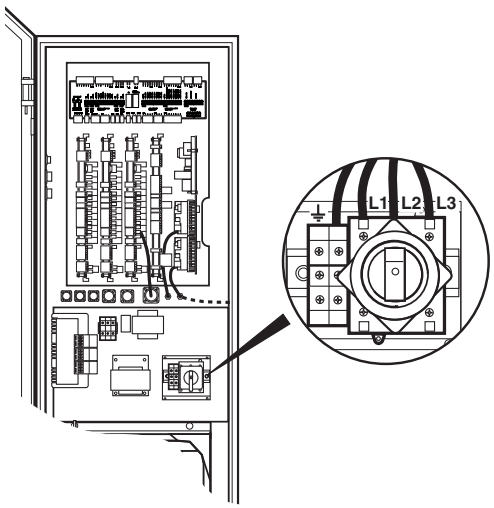
(25) Connect the machine to a separate mains circuit with its own circuit breaker(s). The various ratings required for circuit breakers are shown in the table.

(26) Connect the cable to the main switch inside the compartment on the machine rear, see illustration.

(25) The electrical cable used must be of a suitable size/rating. For the correct size/rating for this cable, check the relevant local or national regulations.

If an earth leakage circuit breaker (or RCD - residual current device) is used, it must be installed to protect the washer extractor only.

25



6585

EX6102c

Heating alternative	Voltage alternative	Total kW	Fuse A
No heating	200 V 3 AC	5,5	25
or Steam	208-240 V 3 AC	5,5	25
heating	230/400 V 3 AC	5,5	25/16
	240 V 3 AC	5,5	25
	346 V 3 AC	5,5	16
	380 V 3 AC	5,5	16
	400 V 3 AC	5,5	16
	415 V 3 AC	5,5	16
	440 V 3 AC	5,5	16
	480 V 3 AC	5,5	16
Electrical heated	230/400 V 3 AC	38	100/63
	240 V 3 AC	38	100
	346 V 3 AC	38	80
	380 V 3 AC	38	63
	400 V 3 AC	38	63
	415 V 3 AC	38	63
	440 V 3 AC	38	63
	480 V 3 AC	38	50

EX6135c

Heating alternative	Voltage alternative	Total kW	Fuse A
No heating	200 V 3 AC	4,0	20
or Steam	230 V 3 AC	4,0	16
heating	230 V 3 AC	4,0	16
	240 V 3 AC	4,0	16
	240 V 3 AC	4,0	16
	380 V 3 AC	4,0	16
	400 V 3 AC	4,0	16
	415 V 3 AC	4,0	16
	440 V 3 AC	4,0	16
	480 V 3 AC	4,0	16
Electrical heated	230 V 3 AC	38	100
	230 V 3 AC	56	160
	240 V 3 AC	38	100
	240 V 3 AC	56	160
	380 V 3 AC	38	63
	380 V 3 AC	56	100
	400 V 3 AC	38	63
	400 V 3 AC	56	100
	415 V 3 AC	38	63
	415 V 3 AC	56	100
	440 V 3 AC	38	63
	440 V 3 AC	56	80
	480 V 3 AC	56	80

EX6200c

Heating alternative	Voltage alternative	Total kW	Fuse A
No heating or Steam heating	200 V 3 AC	6,7	35
	230 V 3 AC	6,7	25
	240 V 3 AC	6,7	20
	380 V 3 AC	6,7	16
	400 V 3 AC	6,7	16
	415 V 3 AC	6,7	16
	440 V 3 AC	6,7	16
	480 V 3 AC	6,7	16

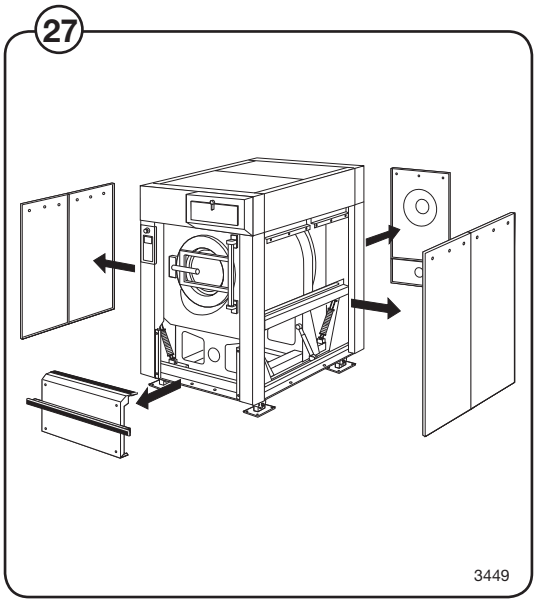
EX6250c

Heating alternative	Voltage alternative	Total kW	Fuse A
No heating or Steam heating	200 V 3 AC	5,3	35
	230 V 3 AC	5,3	25
	240 V 3 AC	5,3	20
	380 V 3 AC	5,3	16
	400 V 3 AC	5,3	16
	415 V 3 AC	5,3	16
	440 V 3 AC	5,3	16
	480 V 3 AC	5,3	16

Tilt function

Installation

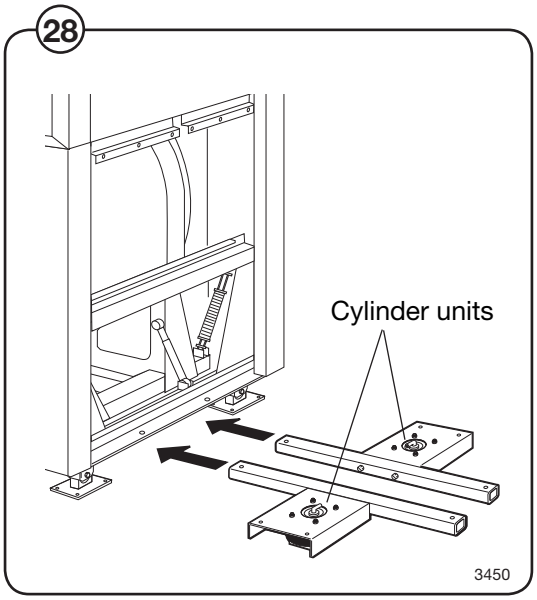
(27) Remove the machine's side panels, lower front panel and rear covers.



(28) <u>For machines with tilt both forwards and backwards</u>:

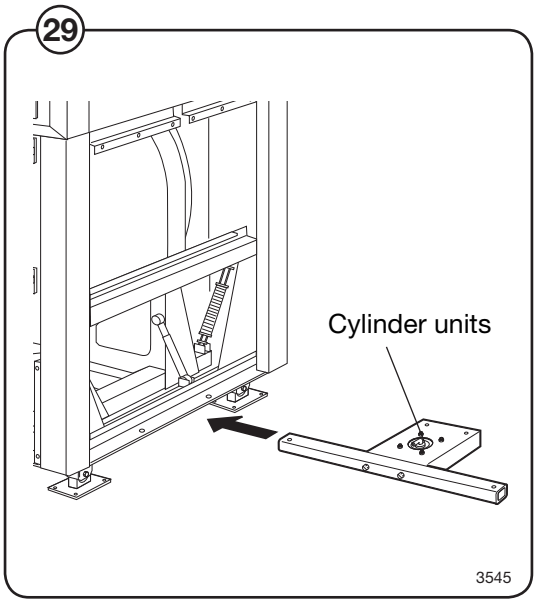
Insert the two cylinder units from the side of the machine underneath the machine frame.

If there is vinyl floor-covering on the floor:
To protect the floor from wear, a sheet of stainless steel should be laid beneath each cylinder unit.



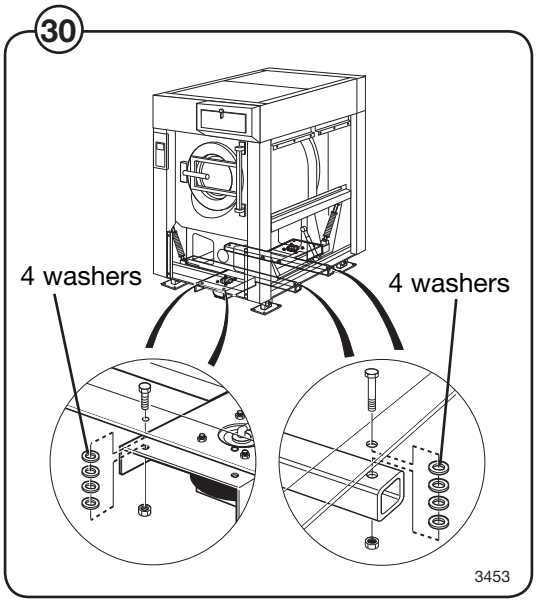
(29) <u>For machines with forward tilt only</u>:

Insert the cylinder unit from the side of the machine underneath the rear section of the machine frame.

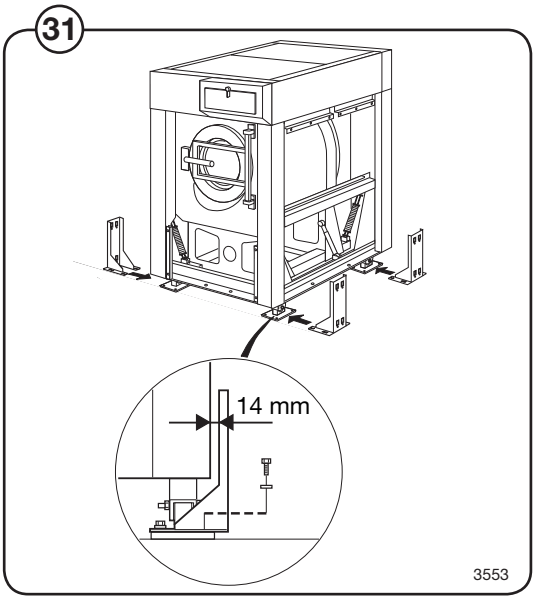


(30) Secure the cylinder units using four bolts and nuts.

It is important to fit four washers (each 5 mm thick) between each cylinder unit and the machine frame (see illustration).



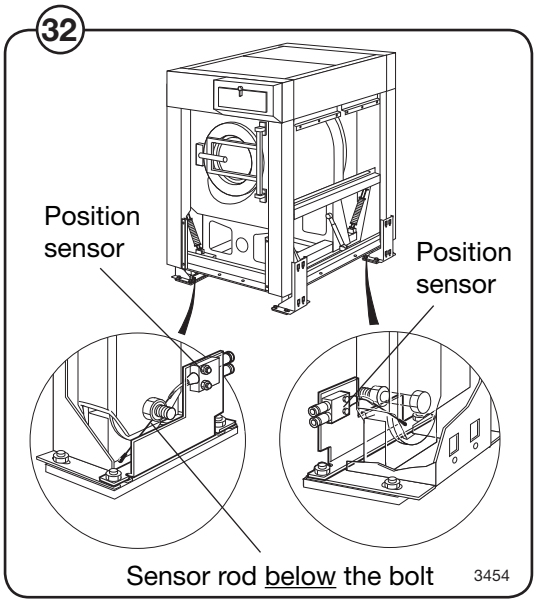
(31) Fit the four corner posts, one for each corner of the machine, using the bolts which secure the machine feet to the floor. Adjust the clearance between the upper part of each corner post and the machine so it is 14 mm.



(32) <u>For machines with tilt both forwards and backwards</u>:

Fit two pneumatic position sensors on two of the machine feet: at left-hand front and right-hand rear, diagonally opposed. The position sensors are to be fitted using the inner two fastening bolts of the feet, mounted on the corner posts just installed.

Please note that the sensor rod must be placed <u>below</u> the bolt for the wheel.



Tilt function (optional equipment)

For machines with tilt both forwards and backwards:

The compressed air lines which are to be connected to the air bellows and position sensors are supplied bundled on the machine rear.

(34) Connect the lines to the air bellows and pressure sensors according to the table below. These lines do not need to be fastened to the frame, but can be laid on the floor underneath the machine.

The air lines are marked as follows:

(33)

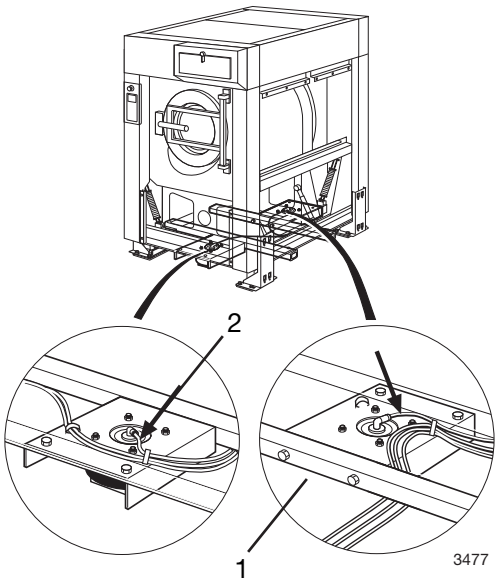
ID marking	Connect to
1	Rear air bellows
2	Front air bellows
3	Rear pressure sensor, connection 1
4	Rear pressure sensor, connection 2
5	Front pressure sensor, connection 1
6	Front pressure sensor, connection 2

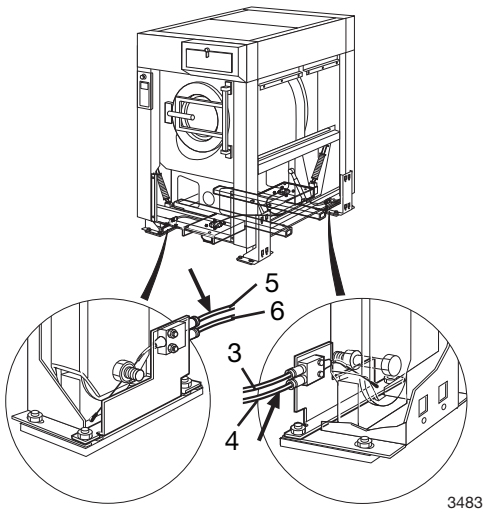
Note that the tubes for the pressure sensors must be connected correctly, see Fig.

– Connection 1 – same side as data plate.

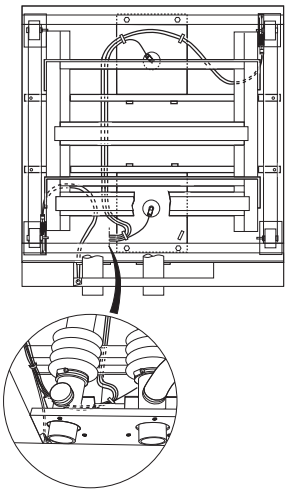
– Connection 2 – same side as the inset white plate.

(33)



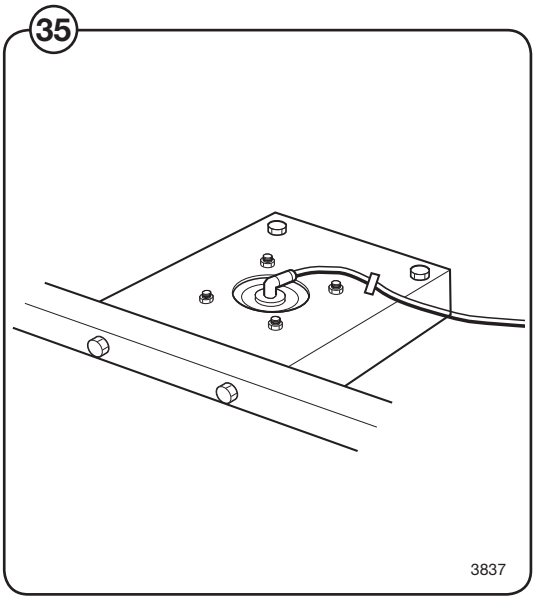


(34)



(35) For machines with forward tilt only:

The compressed air line to be connected to the air bellows is supplied bundled on the machine rear. Connect this line to the connection nipple on the top of the bellows.



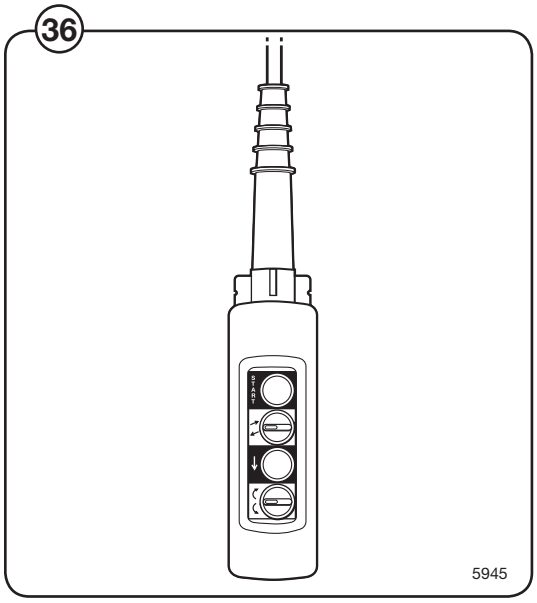
Tilt function (optional equipment)

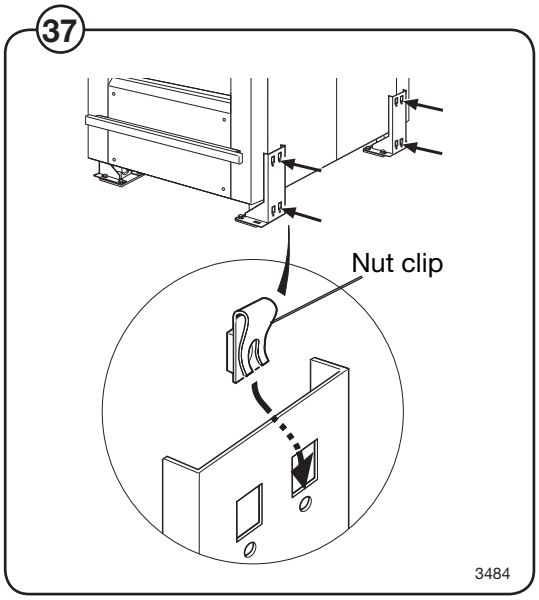
(36) Test the tilt function:

- Switch on the machine electrical switch(es) and turn on the compressed air supply.
- Open the door and lock it open.
- The uppermost switch on the tilt control unit tilts the machine either backwards (turn switch anticlockwise) or forwards (turn switch clockwise). The middle switch returns the machine to its normal (upright) position. These switches must be kept actuated throughout the entire tilt movement. If the switch is released, the tilt movement will halt and the machine will stop in its position.
- The bottom switch on the control unit rotates the drum either clockwise or anticlockwise.
- Check that the machine cannot tilt in the opposite direction until it has returned to its normal position after an earlier tilt.
- Check for any possible leaks from compressed air lines or from bellows and sensors.

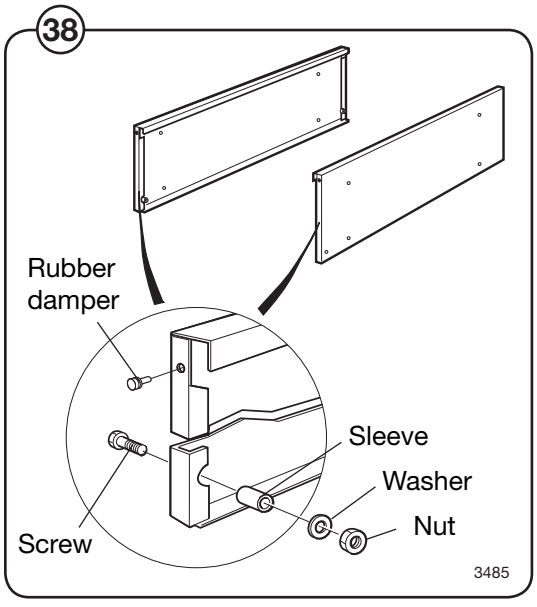
Refit the machine panels/covers.

(37) Fit two nut clips to each corner post. The nut clips slot into the rear grooves on the posts.

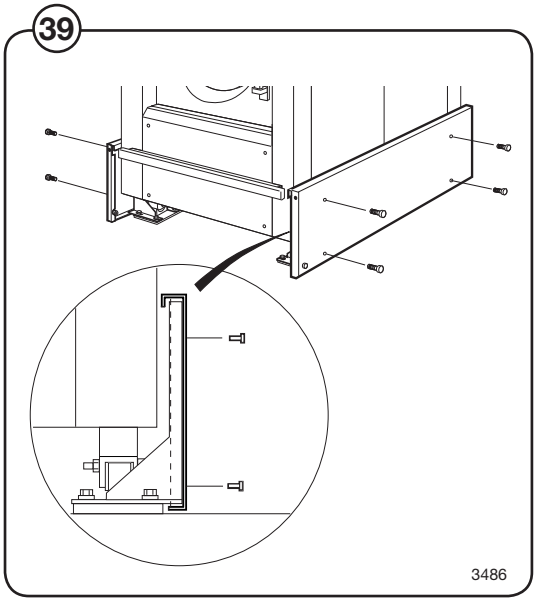




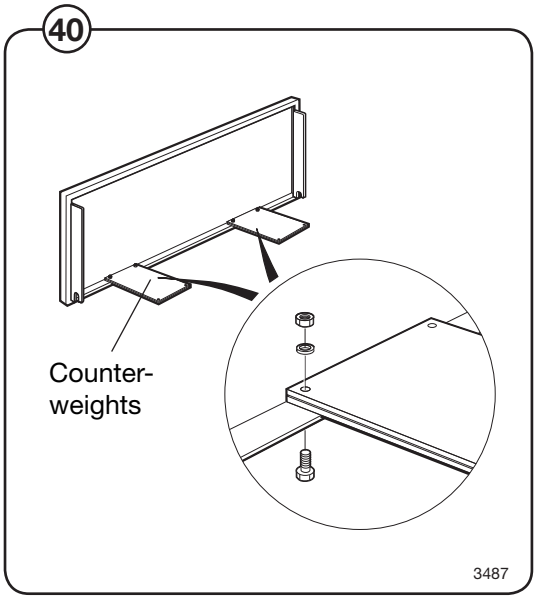
(38) Fit the rubber dampers and sleeves to the front end of each side panel strip.



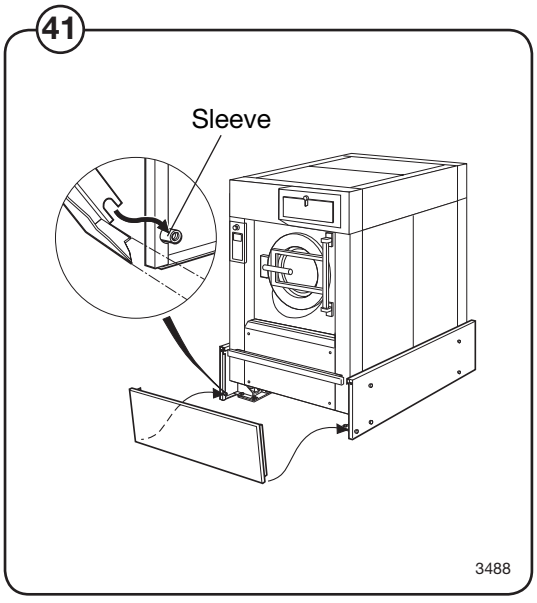
(39) Position and fasten the side panel strips.



(40) Fit the two counterweights to the front panel strip. The bolt heads should be at the bottom.



(41) Hang the front panel strip on the two sleeves you fitted to the side strips. Protective plates are mounted on the front and rear.



Weight measurement

Installation

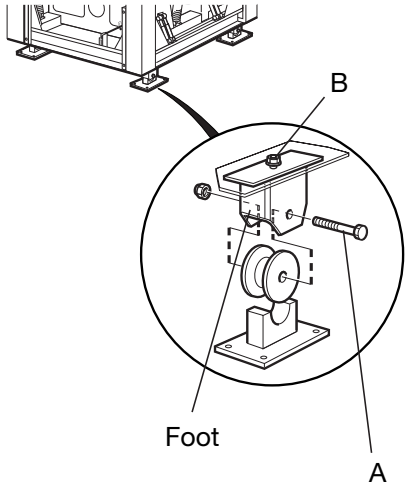
Remove the machine's side panels and the tilt protection if the machine is fitted with the tilt function.

In order to retain the protective plates shielding effect against harmful electrical fields (EMC), it is extremely important that the mounting screws that were fitted with toothed washers are reinstalled with these washers.

(42) Install four load cells, one in each corner of the machine. Then proceed as follows:

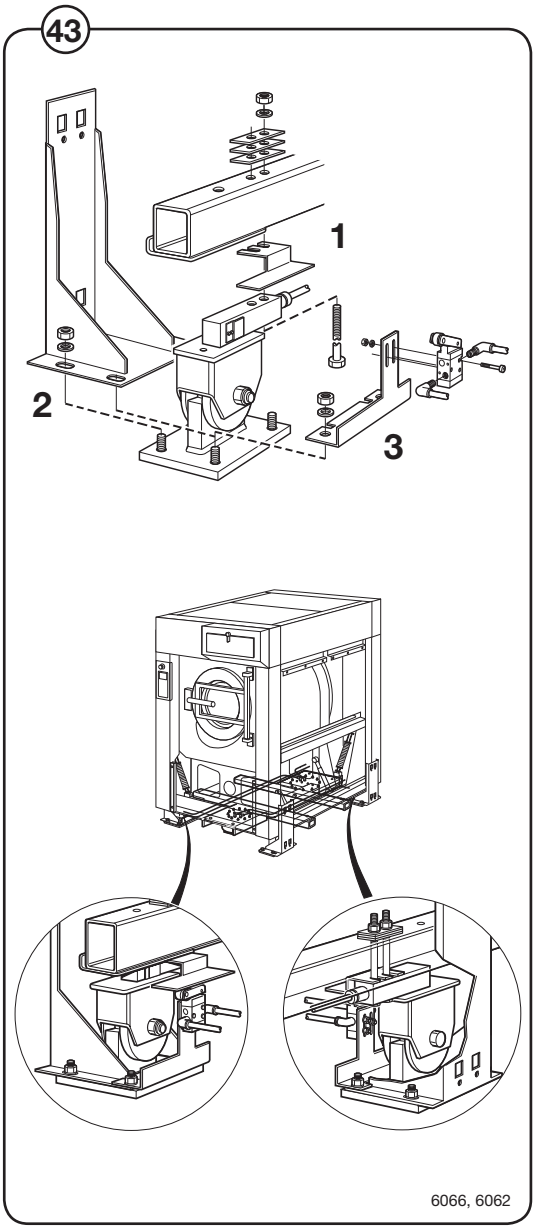
- Remove nut + bolt A for machines without tilt. (The machine may have to be lifted slightly.)
- Using a jack under the frame, lift at the corner where the load cell is to be installed.
- Secure with a suitable object under the frame, in order to prevent the risk of clamping injuries and damage to the machine.
- Remove nut + bolt A for machines with tilt, and remove the wheel.
- Remove screws B situated behind the pillar (will not be used again).

(42)



The load cells are sensitive to knocks and impacts.

(43) Assemble the load cell, spacer washers, metal brackets and switches. The arrow on the load cell should point upwards.
Note that the front and rear load cells should be installed so that they mirror each other.



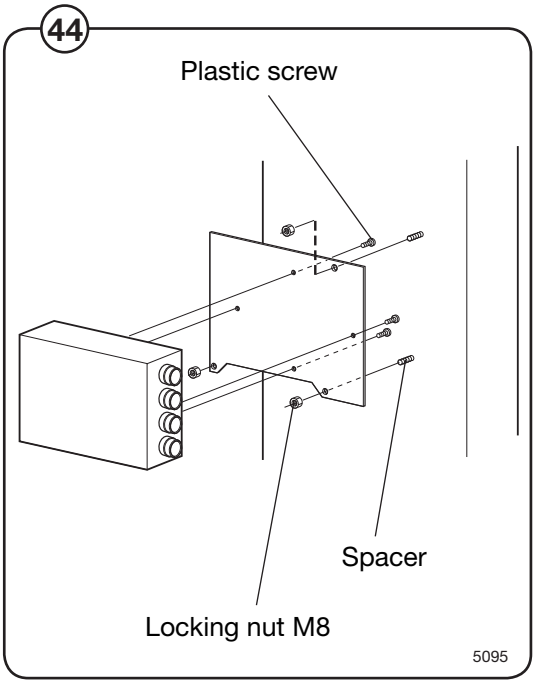
Weight measurement (optional equipment)

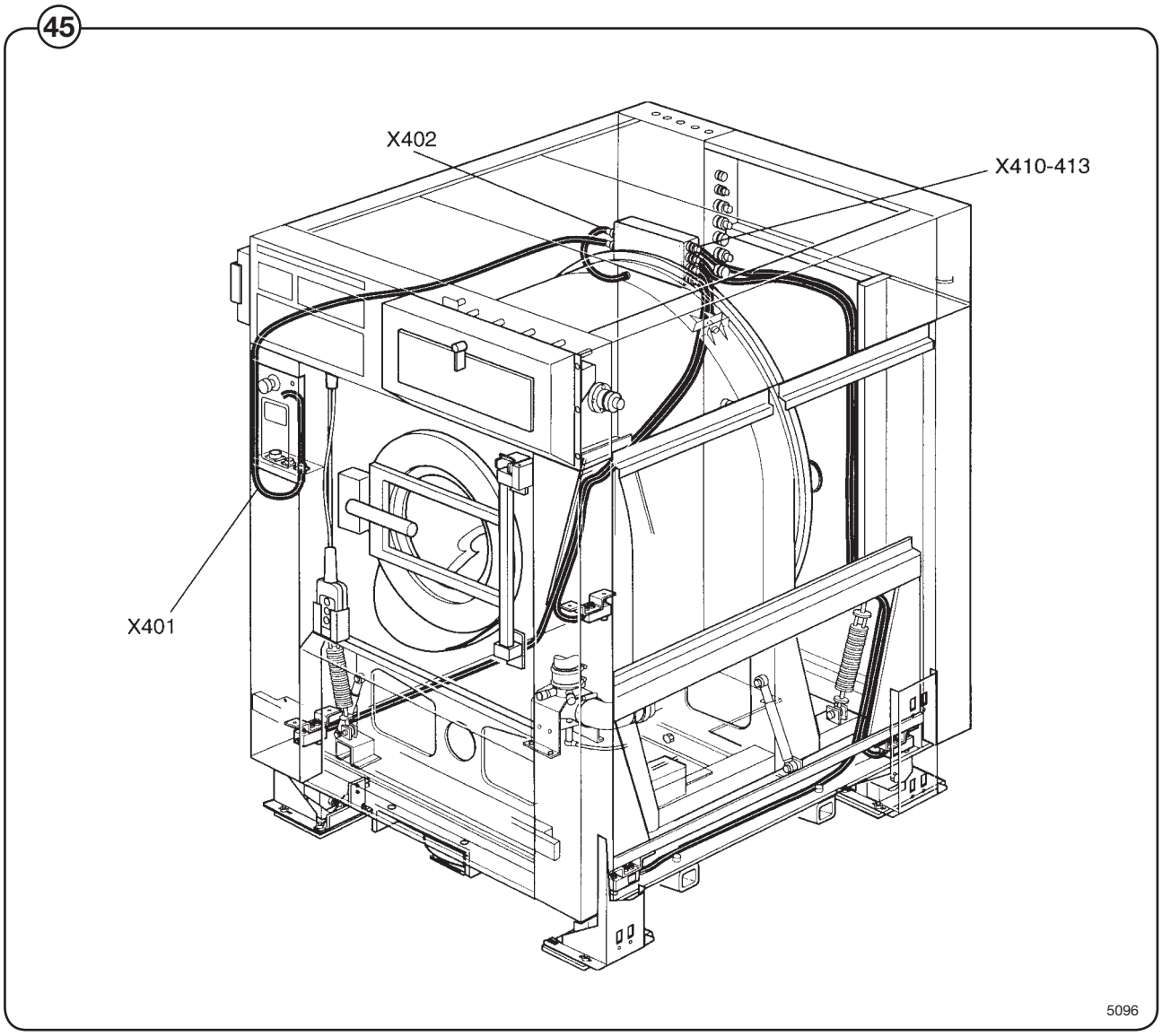
(44) Assemble the mounting plate and the scale unit with four plastic screws.

Install the scale unit on three of the existing spacers on the machine's rear left side pillar. Use three locking nuts M8.

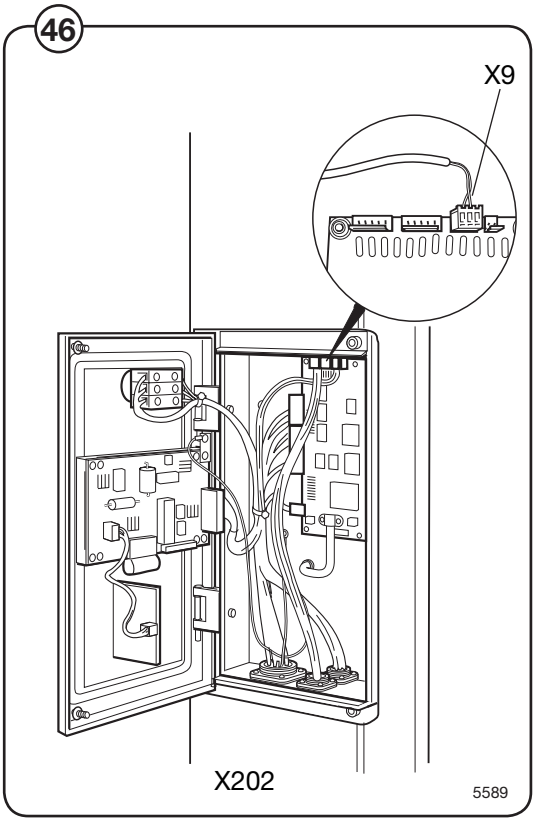
(45) Route the wiring from each load cell and connect the respective connectors in the scale unit X410-X413 (the order the connectors are connected is not important). Strap the wiring in existing holes.

Connect connector X401 in the scale unit. Route the cable as illustrated.



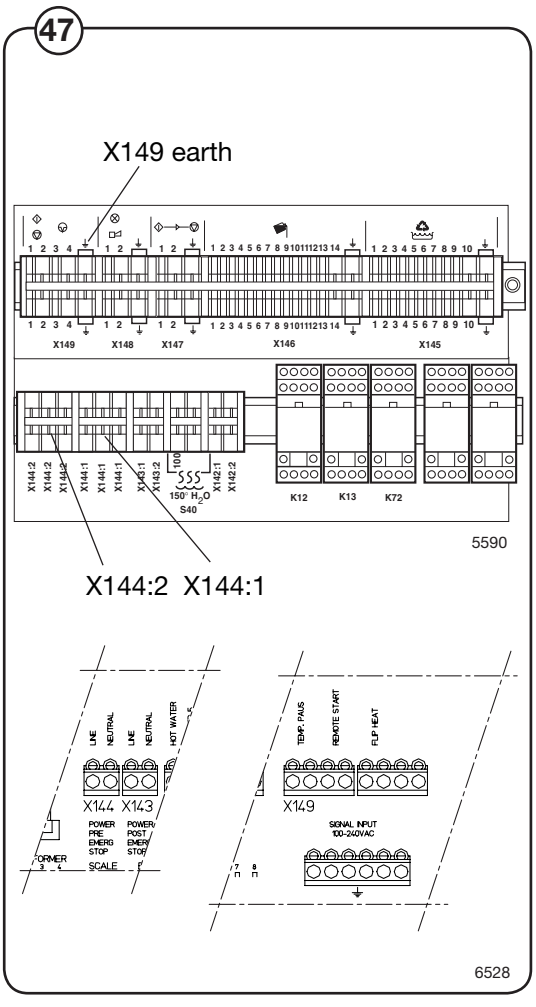


(46) Remove the cover plate in the front automatic control unit and install connector X202. Connect connector X9 on the CPU board. Strap cables to existing wiring.



(45) Connect connector X402 for the supply power to the scale unit. Remove the cover plate and route the cable into the automatic control unit.

(47) Clip off the AMP device and the ring crimp terminal. Strip the cables. Connect the phases in terminal block X144:1 and 2. Connect neutral in terminal block earth.



Weight measurement (optional equipment)

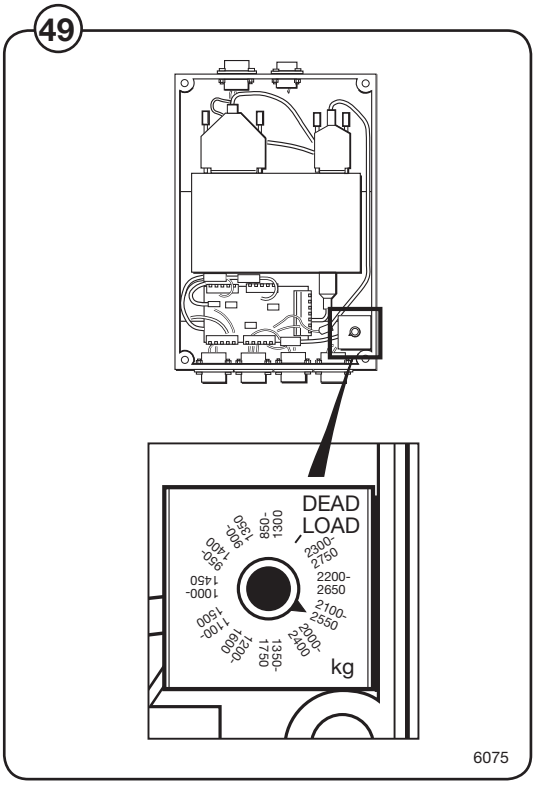
(48) The program automatically detects if the weighing equipment is installed, and a weight appears in the washer extractor's display.

Before using the weighing equipment:

On some machines, the software has to be updated. Contact your supplier for information.

(49)

- Check that the "dead load" selector in the scale unit is set to 2100-2550 kg (EX6200c, EX6250c).
  1200-1600 kg (EX6135c).
  1000-1450 kg (EX6102c).
- Calibrate the scale as described in the instructions in the manual.
- Reinstall the machine's side panels.
- Perform a zero calibration as described in the manual.



In order to retain the protective plates' shielding effect against harmful electrical fields (EMC), it is extremely important that the mounting screws that were fitted with toothed washers are reinstalled with these washers.

Preventive maintenance

To keep your machine in proper working order, follow the preventive maintenance recommendations provided below.

The maintenance interval should be adjusted according to machine usage. The suggested schedule assumes an 8 hour work day, and a 5 day work week..

Daily

- Check the door and door lock:
  - Open the door and try starting the machine. The machine MUST NOT START.
  - Close the door, start the machine and try opening the door. It MUST NOT BE POSSIBLE TO OPEN THE DOOR WHILE THE MACHINE IS OPERATING!
  - Check that the door does not leak.
  - Clean the door seal, removing any detergent and fluff.
- Check that the drain valve does not leak during the wash cycle.
- Clean out any detergent remaining in the detergent compartment. Rapid advance through a program and let the water rinse the compartment.
- Inspect liquid chemical tubing and connections for leaks. Repair as necessary.

Every third month (refer this service to qualified personnel)


May only be carried out by authorized personnel.

- Check that the door does not leak.
- Check the drain valve and remove any lint.
- Inspect the interior of the machine (during an actual wash cycle to ensure that no leaks are noticed) by:
  - Turning of the main power switch of the machine.
  - Remove the top cover and the protective front and rear plates.
  - Cover the detergent dispenser to prevent water from splashing inside the machine.
  - Start a wash program.
  - KEEP CLEAR OF MOVING PARTS WHILE MACHINE IS OPERATING!!

- Inspect all internal hoses, seals and gaskets for signs of leakage. Repair as necessary.
- Check that water inlet screens are clean of debris. Dirty screens result in longer fill times, which reduce productivity.
- Inspect the drive belt. Adjust the tension or replace if necessary.
- Check that there are no signs of leakage on the floor beneath the machine. Locate and repair any leak.
- On heated machines, if the heating time is unusually long, check the heating elements. If the water is very hard, check whether there are lime deposits on the heating elements. Decalcify the elements if necessary. Adapt the amount of deliming agent to the manufacturer's guidelines.
- Never switch on the heating elements when there is no water in the machine. This will cause the slow-blow fuse to trigger.
- Inspect the shock absorbers and coil springs.