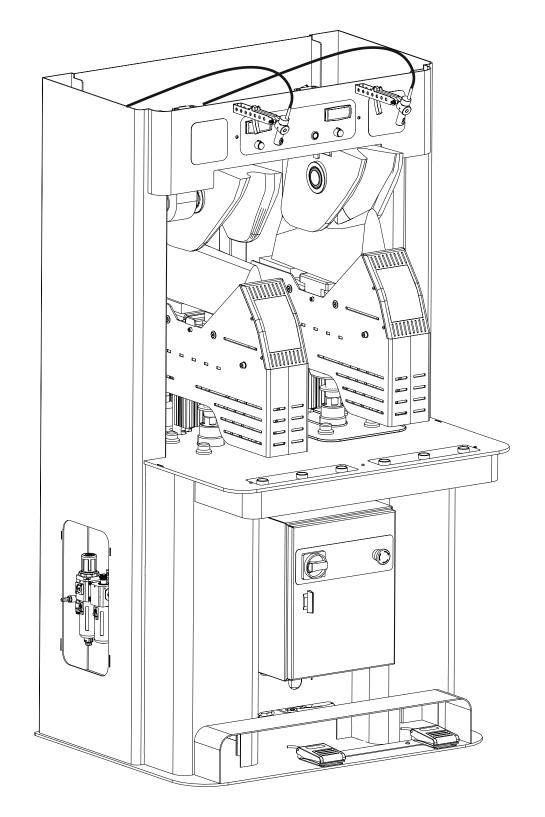


OPERATOR'S MANUAL



VC-19D

VER. ASM-01217

Patented

VC-19D Operator's manual





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Introduction

The purpose of this manual is to inform the owner of this machine for its operation, its maintenance and for all the safety regulations.

Please read carefully all the instructions and follow them in order to use the machine properly in the production and avoid any case of injuries.

Our company does not have any responsibility for any changes happened on the machine by the owner, or actions which are different to what this manual refers.

SAFETY REGULATIONS

This machine is intended for professional use only.



WARNING!

Only one operator may work on the machine at a time.



WARNING!

Read and follow carefully all the relative instructions to avoid serious injury.

Only qualified and authorized personnel must use the machine.

- Operators are expressly forbidden to use the machine under the influence of alcohol or drugs capable of affecting physical and mental capacity.
- Keep unauthorized persons away from the work area.
- Make sure that the machine has been installed in compliance with the established legislation and standards.
- Always keep this user manual in a place where it can be readily consulted when working on the machine. Consult it whenever you are in need of information or explanation.
- Do not remove or deface the safety, danger, warning or instruction signs. Replace any missing or illegible Danger, Warning or instructions signs.
- Never use the machine if you notice any damaged electric wires.
- Never install the machine outdoors or in any place with a lot of moisture.



Use only original spare parts, which can be supplied by the manufacturer or the local agent. Otherwise, your machine will not be a CE product.



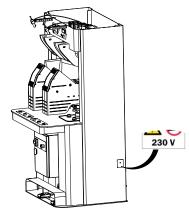
WARNING

The machine frame must be earthed using the outside connection point marked according to the CE norms.



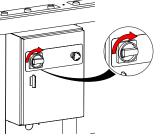
Electric and pneumatic connections

 Connect the machine (SINGLE PHASE 230V - 50Hz).
Before plugging in the machine, check that the main supply voltage is the same as that indicated on the label situated on the back side of the machine.

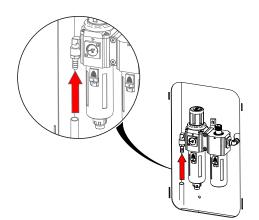


3. Check if the plug and socket have the same technical type. If not, use the suitable adapter after having consulted a certified electrician.

4. To disconnect the machine, turn the main switch off and remove the plug from the outlet.



5. Connect the machine to air pressure 6 - 8bar.6. Connect the proper pneumatic hose. Set the main pressure regulator, which is found, on the back part of the machine to 6 Bar.

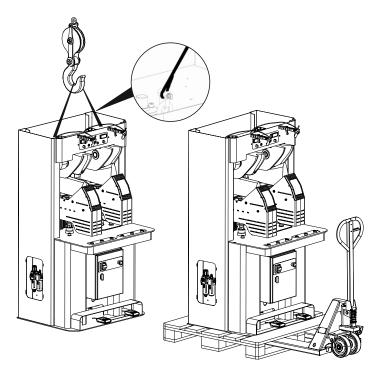




Holding-Transportation

1. Use the clevy's existed on the top of the machine with proper belts to lift the machine.

2 . Pass the trans-pallet's forks under the pallet as shown in the Figure below.

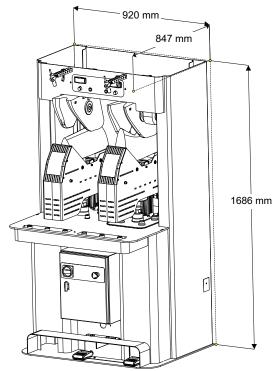


Maintenance of cooling unit

Clean the condenser (radiator) of the cooling unit once per month by using air pressure.



Technical data & Dimensioning



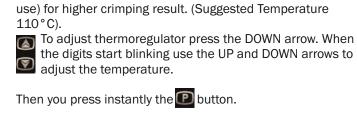
Technical Data

| OPERATION | Electric - Pneumatic |
|-------------------|------------------------|
| PRESSURE | 6 Bar |
| VOLTAGE | 230V single phase 50Hz |
| CAPACITY | 1200 pairs per 8 hours |
| POWER CONSUMPTION | 1500 W |
| DIMENSIONS (mm) | 920 X 847 X 1686 |
| WEIGHT | 385 Kgs |

Lubrication

Keep the FRL (air-filter-regulator & lubricator) always filled with oil. We note that with 8 hours of work per day, the lubricator oil is consumed within 20-25 days approximately. If this does not occur, adjust the oil flow using the adjuster on upper part of lubricator. We recommend the use of ISO Class V632 or ISO 3448 oil. Once per week lubricate all moving parts of the machine.





3. Hot station Time: Set the timer from 5 to 30 sec. By increasing the time a higher crimping is succeeded.

1 Hot Station Temperature: Set the temperature from 60 to

Choose the higher temperature (according the material you

110°C. Temperature is a basic factor for the crimping.

5. Cooling unit ON/OFF.

2. Cold Station Temperature: Set the temperature from 9 to 11°C (find the suitable temperature for the minimum condensation).

4. Head Lock: Heads' lock ON/OFF.

6. Cold station Time: Set the timer from 5 to 30 sec. Less time at cold station will result in a more shallow angle.

6



4

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5



Panel Adjustments



Operation



Step 1. Place the vamp in the hot station mould as shown in Figure 1



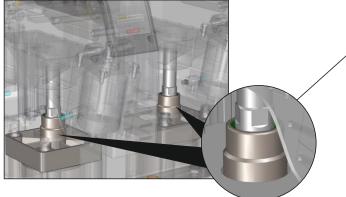
Step 3. Press the START buttons simultaneously and release the pedal to complete the procedure. The machine will revert to its initial position after the end of the setting time.



Step 2. Press the pedal to hold the vamp (Figure 2). Before continuing the procedure be sure that the vamp is in the right crimping position.

For correct placing release the pedal, correct the place of the vamp and press it again.

Maintenance





Repeat the procedure in the hot and cold station in order to stabilize the materials

Tip: Hot and cold is necessary either for leather or synthetic vamps and helps maximize and retain the final shape of the vamp and finally the shoe



- Once a week lubricate the rod of the cylinders **ASM-00694** with oil type SAE 30.
- Once a week check the oil level of the air pressure lubricator P1 and add oil type ISO Class V632 or ISO 3448 or something similar.
- Once a month clean the radiator.

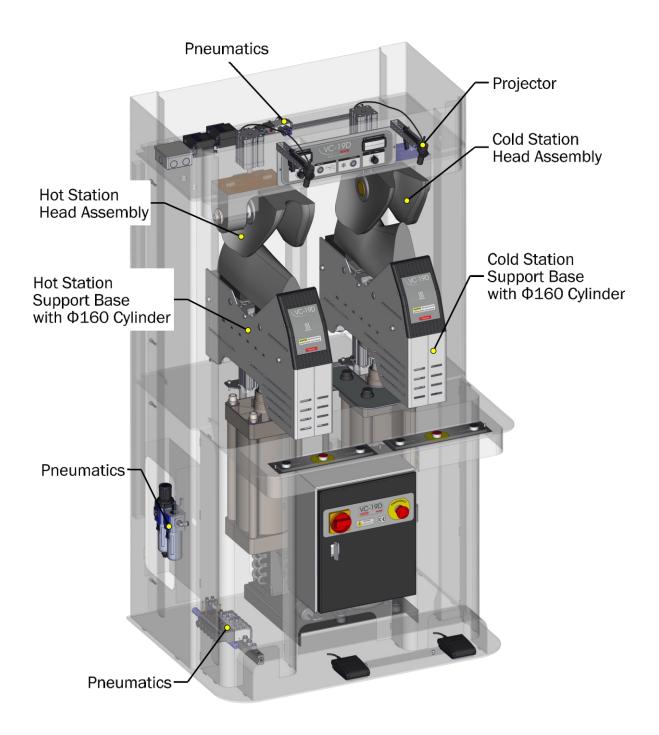
Every six months check the good operation of the lubricator.

Note: The lubricator must drip approximately one drop every 20 operation cycles.



ASSEMBLING VC-19D

Hot Station Head Assembly (page 9) Hot Station Support Base with Main Cylinder (page 10) Cold Station Head Assembly (page 11) Cold Station Support Base with Main Cylinder (page 12) Bottom Valve Assembly (Page 13) Projector with rest of Pneumatics (Page 14)





PNE-01163 CYLINDER Φ100x100

PNE-09946 CYLINDER Φ80x100

PNE-09948 CYLINDER Ф50X50

VC-19D

| VC-19 | 9D Hot Sta | ation Head Assembly | | |
|------------|------------------------|--|------|-------------|
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| | | | | |
| BOM ID | PartNo | | Qty | |
| 7 | CAS-00150 CAS-00154 | HOT MOULD HEAD INTERCHANGE PART VC-19 HOT STATION MOULD | 1 | |
| 12 | CAS-00154 | VC-19 HOT STATION MALE MOULD | 1 | |
| 35 | ELE-00516 | HEATING SENSOR 6x35 (L=80CM) | 1 | |
| 39 | ELE-00660 | HEATING ELEMENT Φ20X110 | 1 | |
| 45 | GEN-00486 | SLIDING BODY | 2 | |
| 74 | LAS-01129 | SUPPORT INTERNAL SIDE PLATE | 2 | 9946 |
| 80 | LAS-01137 | VC-19 MOULD STOPPER | 1 | |
| 81 | LAS-01146 | | 1 | |
| 124 125 | PNE-01090 PNE-01164 | FISH-EYE, UNIVERSAL JOINT M16x1.5 CB-DOUBLE EAR FLANGE Φ100 | 2 | |
| 125 | PNE-01169 | Φ80 DOUBLE EAR FLANGE | 1 | |
| 138 | CAS-00160 | VC-19D MALE MOULD HOLDING BASE | 1 | 1163 |
| 145 | REV-00530 | VC-19 CYLINDER JOINT PIN | 2 | |
| 146 | REV-00531 | VC-19 ROTATING BASE PIN | 2 | |
| 147 | REV-00535 | VC-19 HOLDING WASHER Φ50 | 1 | 4 |
| 149 | REV-00538 | VC-19 Φ50 HOUSING SHAFT | 1 | 4 |
| 150 | REV-00541 | | 2 | 4 |
| 151 | REV-00542 REV-00558 | VC-19 Φ16 PIN VC-19D SLIDING BODY GUIDE | 2 | 4 |
| 156 178 | PNE-00558 | ELBOW MALE ADAPTOR 4-1/8" | 5 | 4 |
| 543 | | RESTRICTOR, 1/8 (M) - 1/8 (F) - Φ1.0 | 1 | 1 |
| 1097 | PNE-01097 | STRAIGHT MALE ADAPTOR 6-1/8" | 1 | 1 |
| 1098 | PNE-01098 | ELBOW MALE ADAPTOR 6-1/8" | 1 | 1 |
| 1163 | | | 1 | |

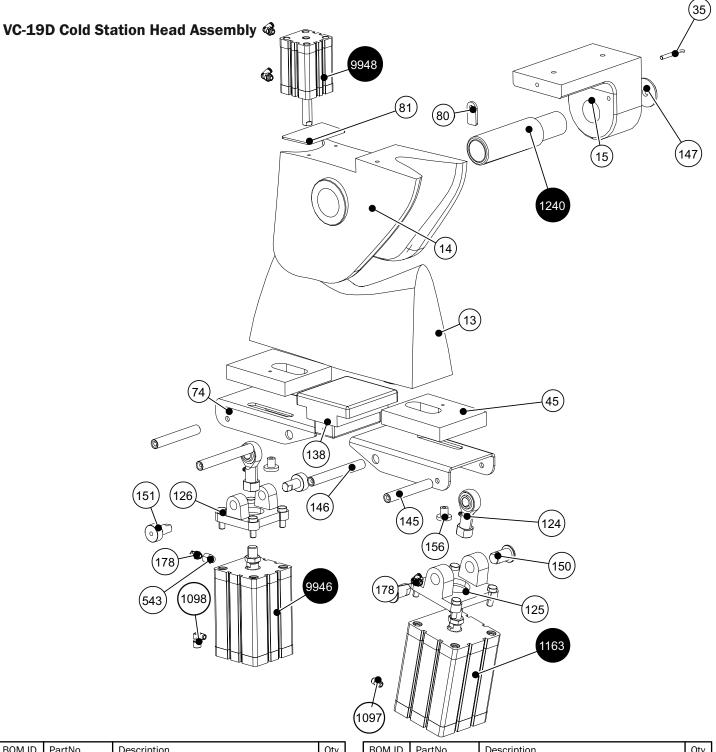


VC-19D Hot Station Support Base with Main Cylinder 1238 (46) Ó 0 0 0 0 0 0 0 153 (144) 9 (178) 1015 (155) (50) ð 694 (152 ē ð (115 (107 (99) 103 -\$1(7) (132 (96 (118) 112

| BOM ID | PartNo | Description | Qty |
|--------|-----------|----------------------------------|-----|
| 9 | CAS-00151 | VC-19D SUPPORT MOULD BASE | 1 |
| 46 | GEN-00488 | VC-19 MOULD SUPPORT COVER | 1 |
| 50 | LAS-00589 | PISTON GUIDE, VC-2014 | 1 |
| 96 | PNE-00059 | NIPPLE, TAPER, 1/4 (M) - 1/4 (M) | 1 |
| 99 | PNE-00074 | NON-RETURN VALVE, 1/4 | 1 |
| 103 | PNE-00094 | SILENCER, 1/4, PLASTIC, BLUE | 1 |
| 107 | PNE-00171 | REDUCING NIPPLE 1/4-1/2 | 1 |
| 112 | PNE-00213 | CAP ALLEN, +OR 1/4 | 1 |
| 115 | PNE-00725 | SOLENOID VALVE 1/4 5/2 1P | 1 |
| 118 | PNE-00951 | REDUCER, TAPER, 3/4-1/2 | 1 |

| BOM ID | PartNo | Description | Qty |
|--------|-----------|--------------------------------|-----|
| 132 | PNE-09925 | ELBOW MALE ADAPTOR 8-1/4" | 1 |
| 144 | REV-00376 | NUT, CUSTOM, M36X2.0 | 1 |
| 152 | REV-00543 | GUIDE INTERNAL THREADED WASHER | 1 |
| 153 | REV-00544 | WASHER, CUSTOM, Φ20 | 4 |
| 155 | REV-00557 | GUIDE CYLINDER | 1 |
| 178 | PNE-09916 | ELBOW MALE ADAPTOR 4-1/8" | 2 |
| 694 | ASM-00694 | MAIN CYLINDER Φ160 | 1 |
| 1015 | PNE-01015 | CYLINDER Φ40 | 1 |
| 1238 | ASM-01238 | HOT STATION COVER | 1 |





| BOM ID | PartNo | Description | |
|--------|-----------|-----------------------------------|---|
| 13 | CAS-00156 | COLD STATION MALE MOULD | 1 |
| 14 | CAS-00158 | COLD STATION MOULD, NORMAL | 1 |
| 15 | CAS-00159 | COLD MOULD HEAD INTERCHANGE PART | 1 |
| 35 | ELE-00516 | HEATING SENSOR 6x35 (L=80CM) | 1 |
| 45 | GEN-00486 | SLIDING BODY | 2 |
| 74 | LAS-01129 | SUPPORT INTERNAL SIDE PLATE | 2 |
| 80 | LAS-01137 | MOULD STOPPER | 1 |
| 81 | LAS-01146 | SHORT HEAD PUSHING INOX PLATE | 1 |
| 124 | PNE-01090 | FISH-EYE, UNIVERSAL JOINT M16x1.5 | 2 |
| 125 | PNE-01164 | CB-DOUBLE EAR FLANGE Φ100 | 1 |
| 126 | PNE-01169 | Φ80 DOUBLE EAR FLANGE | 1 |
| 138 | CAS-00160 | VC-19D MALE MOULD HOLDING BASE | 1 |
| 145 | REV-00530 | CYLINDER JOINT PIN | 2 |

| BOM ID | PartNo | Description | Qty |
|--------|-----------|--------------------------------------|-----|
| 146 | REV-00531 | ROTATING BASE CONNECTION PIN | 2 |
| 147 | REV-00535 | HOLDING WASHER Φ50 | 1 |
| 150 | REV-00541 | Φ20 PIN | 2 |
| 151 | REV-00542 | Φ16 PIN | 2 |
| 156 | REV-00558 | SLIDING BODY GUIDE | 2 |
| 178 | PNE-09916 | ELBOW MALE ADAPTOR 4-1/8" | 5 |
| 543 | REV-00453 | RESTRICTOR, 1/8 (Μ) - 1/8 (F) - Φ1.0 | 1 |
| 1097 | PNE-01097 | STRAIGHT MALE ADAPTOR 6-1/8" | 1 |
| 1098 | PNE-01098 | ELBOW MALE ADAPTOR 6-1/8" | 1 |
| 1163 | PNE-01163 | CYLINDER Φ100x100 | 1 |
| 1240 | ASM-01240 | EVAPORATOR INSERT | 1 |
| 9946 | PNE-09946 | CYLINDER 80x100 | 1 |
| 9948 | PNE-09948 | CYLINDER Ø50X50 | 1 |

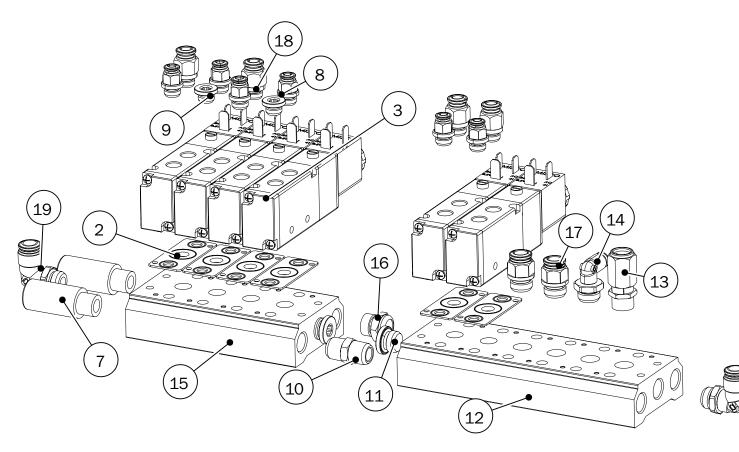


VC-19D Cold Station Support Base with Main Cylinder

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|-------------|---------------------|--|-------------------|------------------------|
| | | | ſ | 1239 |
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| | L | 1 | | |
| BOM ID 8 | PartNo CAS-00151 | Description VC-19D SUPPORT MOULD BASE | Qty 1 | |
| 8 46 | GEN-00151 | VC-19D SUPPORT MOULD BASE | 1 | |
| 46 50 | LAS-00589 | PISTON GUIDE | 1 | |
| 50 52 | LAS-00389 | VC-16 LIQUID HOLDER | 1 | |
| 96 | PNE-00059 | NIPPLE, TAPER, 1/4 (M) - 1/4 (M) | 1 | |
| 99 | PNE-00074 | NON-RETURN VALVE, 1/4 | 1 | \neg $ $ \bigcirc |
| 103 | PNE-00094 | SILENCER, 1/4, PLASTIC, BLUE | 1 | |
| 103 | PNE-00171 | REDUCING NIPPLE 1/4-1/2 | 1 | |
| 112 | PNE-00213 | CAP ALLEN, +OR 1/4 | 1 | \neg |
| 115 | PNE-00725 | SOLENOID VALVE 1/4 5/2 1P | 1 | |
| 118 | PNE-00951 | REDUCER, TAPER, 3/4-1/2 | 1 | |
| 132 | PNE-09925 | ELBOW MALE ADAPTOR 8-1/4" | 1 | |
| 144 | REV-00376 | NUT, CUSTOM, M36X2.0 | 1 | |
| 152 | REV-00543 | GUIDE INTERNAL WASHER | 1 | |
| 155 | REV-00557 | GUIDE CYLINDER Φ22 | 1 | |
| 163 | RUB-00131 | RUBBER CAP | 4 | |
| 178 | PNE-09916 | ELBOW MALE ADAPTOR 4-1/8" | 2 | |
| 694 | ASM-00694 | MAIN CYLINDER Φ160 | 1 | |
| 1015 | PNE-01015 | CYLINDER Φ40 | 1 | |
| 1239 | ASM-01239 | COLD STATION COVER | 1 | |
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| | | (132) (99) (103) | \subset | |
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VC-19D Bottom valve assembly



| BOM ID | PartNo | Description | |
|--------|-----------|----------------------------------|---|
| 2 | GEN-00093 | CAP | 6 |
| 3 | ASM-00461 | VALVE 5/2 G1/8, 24V | 6 |
| 7 | PNE-00094 | SILENCER, 1/4, PLASTIC, BLUE | 2 |
| 8 | PNE-09919 | STRAIGHT MALE ADAPTOR 4-1/8" | 6 |
| 9 | PNE-00072 | PLUG, MALE, PARALLEL, 1/8 | 2 |
| 10 | PNE-00059 | NIPPLE, TAPER, 1/4 (M) - 1/4 (M) | 1 |
| 11 | PNE-00213 | CAP ALLEN, +OR 1/4 | 2 |
| 12 | PNE-01040 | MANIFOLD, 1/4, 6 STATIONS | 1 |

| BOM ID | PartNo | Description | Qty |
|--------|-----------|-------------------------------|-----|
| 13 | PNE-00608 | SAFETY VALVE, 1/4, P.T. 6 bar | 1 |
| 14 | PNE-09923 | ELBOW MALE ADAPTOR 4-1/4" | 1 |
| 15 | PNE-00082 | MANIFOLD, 1/4, 4 STATIONS | 1 |
| 16 | PNE-00896 | SILENCER 1/4 | 1 |
| 17 | PNE-09921 | STRAIGHT MALE ADAPTOR 8-1/4" | 2 |
| 18 | PNE-01097 | STRAIGHT MALE ADAPTOR 6-1/8" | 4 |
| 19 | PNE-09925 | ELBOW MALE ADAPTOR 8-1/4" | 2 |

VC-19D Operator's manual

Qty

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| BOM IDPartNoDescriptionQty41ELE-00682VC-19 LED POINTER142ELE-00674LED PROJECTOR DRIVER1501LAS-01158VC-19D PROJECTOR BRACKET, LEFT1502LAS-01159VC-19D PROJECTOR BRACKET, RIGHT1503LAS-01160VC-19D PROJECTOR POINTER1504REV-00571VC-19D TOP PROJECTOR SYSTEM SPACER2505REV-00572VC-19D LED PROJECTOR MEASURING TAPES1 | VC-19D | Projector | | | |
|---|--------|-----------|--------------------------------------|-----|-----|
| 41ELE-00682VC-19 LED POINTER142ELE-00674LED PROJECTOR DRIVER1501LAS-01158VC-19D PROJECTOR BRACKET, LEFT1502LAS-01159VC-19D PROJECTOR BRACKET, RIGHT1503LAS-01160VC-19D PROJECTOR POINTER1504REV-00571VC-19D TOP PROJECTOR SYSTEM SPACER2505REV-00572VC-19D LED PROJECTOR HOLDER1 | BOM ID | PartNo | Description | Qty | |
| 501LAS-01158VC-19D PROJECTOR BRACKET, LEFT1502LAS-01159VC-19D PROJECTOR BRACKET, RIGHT1503LAS-01160VC-19D PROJECTOR POINTER1504REV-00571VC-19D TOP PROJECTOR SYSTEM SPACER2505REV-00572VC-19D LED PROJECTOR HOLDER1 | 41 | ELE-00682 | VC-19 LED POINTER | 1 | |
| 502LAS-01159VC-19D PROJECTOR BRACKET, RIGHT1503LAS-01160VC-19D PROJECTOR POINTER1504REV-00571VC-19D TOP PROJECTOR SYSTEM SPACER2505REV-00572VC-19D LED PROJECTOR HOLDER1 | 42 | ELE-00674 | LED PROJECTOR DRIVER | 1 | |
| 503 LAS-01160 VC-19D PROJECTOR POINTER 1 504 REV-00571 VC-19D TOP PROJECTOR SYSTEM SPACER 2 505 REV-00572 VC-19D LED PROJECTOR HOLDER 1 | 501 | LAS-01158 | VC-19D PROJECTOR BRACKET, LEFT | 1 | |
| 503LAS-01160VC-19D PROJECTOR POINTER1504REV-00571VC-19D TOP PROJECTOR SYSTEM SPACER2505REV-00572VC-19D LED PROJECTOR HOLDER1 | 502 | LAS-01159 | VC-19D PROJECTOR BRACKET, RIGHT | 1 | |
| 505 REV-00572 VC-19D LED PROJECTOR HOLDER 1 | 503 | LAS-01160 | VC-19D PROJECTOR POINTER | 1 |] 🖉 |
| | 504 | REV-00571 | VC-19D TOP PROJECTOR SYSTEM SPACER | 2 |] |
| 506 STK-00181 VC-19D TOP PROJECTOR MEASURING TAPES 1 | 505 | REV-00572 | VC-19D LED PROJECTOR HOLDER | 1 |] |
| | 506 | STK-00181 | VC-19D TOP PROJECTOR MEASURING TAPES | 1 |] |

PartNo

Description

FRL G1/4 SIZE 300

MALE-FEMALE ELBOW 1/4"

OFF SET MALE TEE 4050 1/4

MALE HOSE ADAPTER (TAPER) 9-1/4

STRAIGHT MALE ADAPTOR 8-1/4"

ELBOW MALE ADAPTOR 8-1/4"

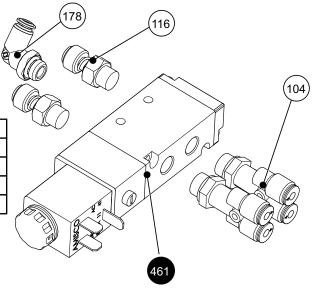
BOM ID

VC-19D FRL with components

| | 84 | PNE-00001 |
|--|-----|-----------|
| | 91 | PNE-00023 |
| | 303 | PNE-00204 |
| | 114 | PNE-00619 |
| | 304 | PNE-09921 |
| | 132 | PNE-09925 |
| | 84 | D |

VC-19D Top Valve with components

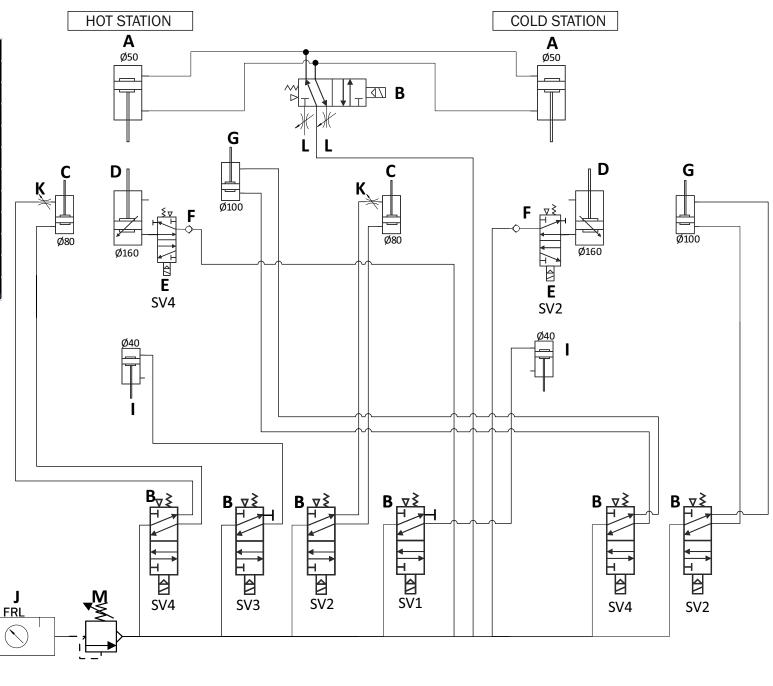
| BC | DM ID | PartNo | Description | Qty |
|-----|-------|-----------|------------------------------------|-----|
| 10 | 4 | PNE-00096 | CONNECTOR, Y, MALE, 1/8 - Ø4 | 2 |
| 11 | 6 | PNE-00741 | SILENCER, SPRING REGULATOR, 1/8 | 2 |
| 178 | 8 | PNE-09916 | ELBOW MALE ADAPTOR 4-1/8" | 1 |
| 46 | 1 | ASM-00461 | VALVE ELECTRIC PILOT 5/2 G1/8, 24V | 1 |
| | | | - | |



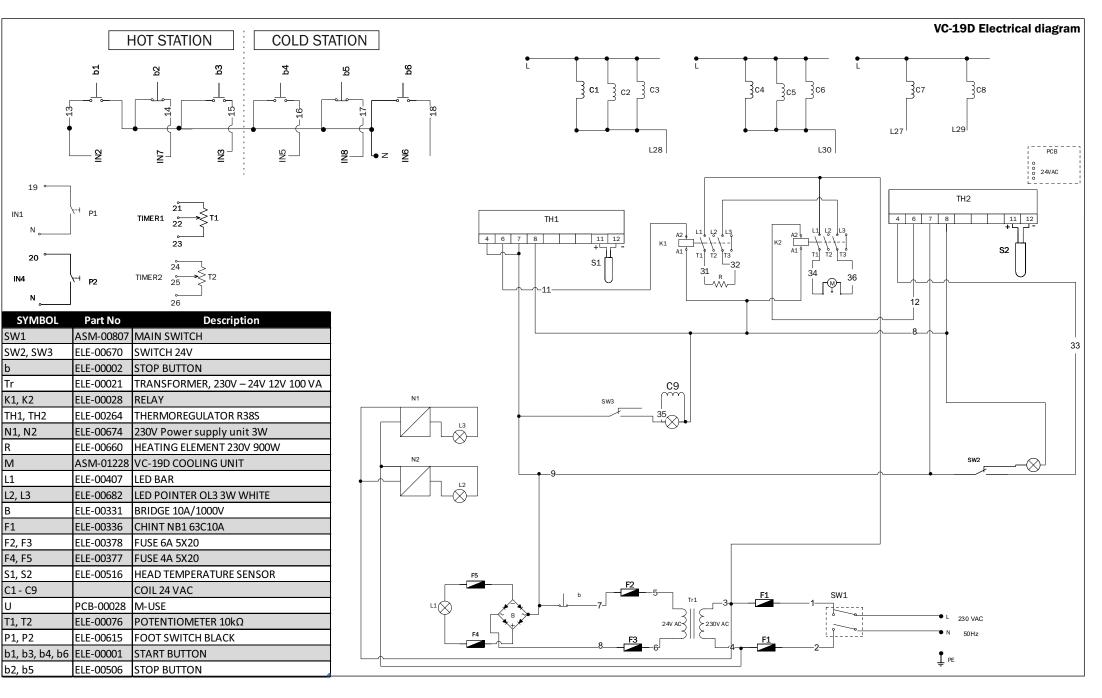


VC-19D Pneumatic Diagram

| | P/N | DESCRIPTION |
|---|-----------|---------------------------------|
| A | PNE-09948 | CYLINDER ACE Φ50X50 |
| В | ASM-00461 | VALVE 5/2 1/8, 24V |
| С | PNE-09946 | CYLINDER ACE 80x100 |
| D | ASM-00694 | CYLINDER SI 160x240 |
| Е | PNE-00725 | VALVE 1/4 5/2 1P |
| F | PNE-00074 | NON-RETURN VALVE, 1/4, FEMALE |
| G | PNE-01163 | CYLINDER ACE Φ100x100 |
| Ι | PNE-01015 | CYLINDER ACQ 40X120 |
| J | PNE-00001 | FRL G1/4 SIZE 300 |
| К | REV-00453 | RESTRICTOR,1/8 (Μ)-1/8 (F)-Φ1.0 |
| L | PNE-00741 | SILENCER, REGULATOR, 1/8 |



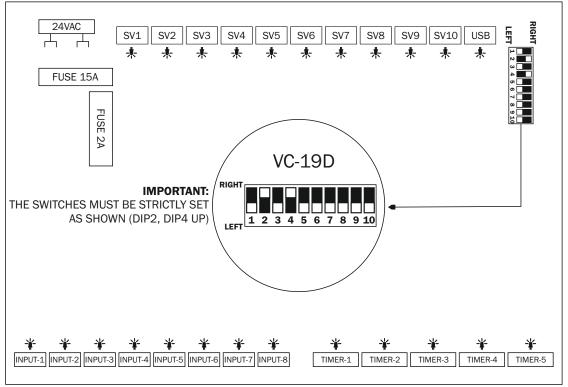






VC-19D Electronic Board Diagram



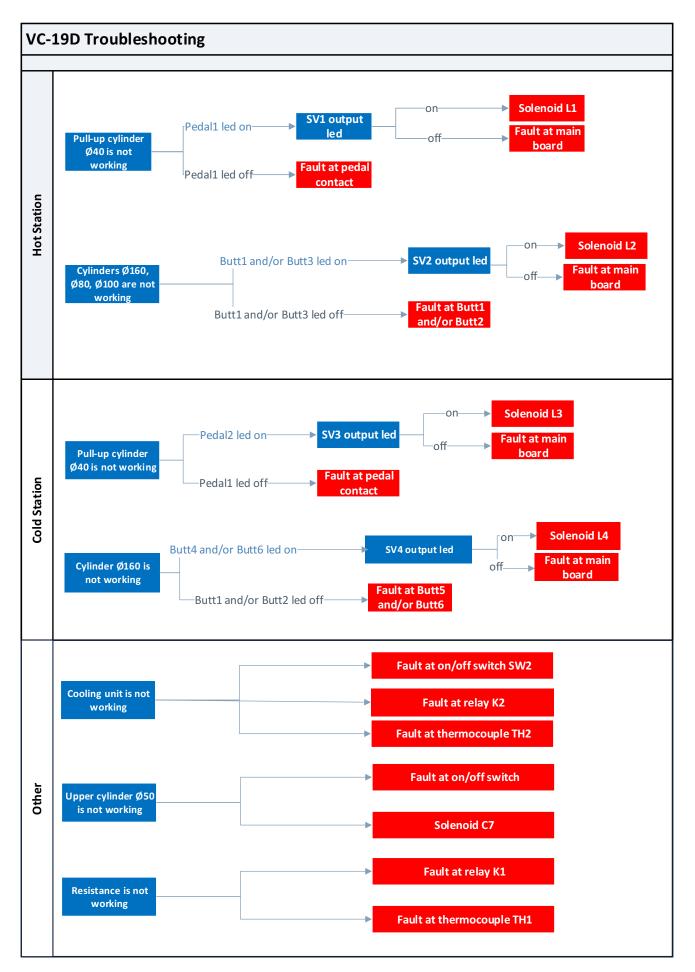


PCB-00028 M-USE MAINBOARD ELECTRONIC PCB

| INPU | TS |
|-----------|--------|
| PEDAL1 | INPUT1 |
| PEDAL2 | INPUT4 |
| BUTTON b1 | INPUT2 |
| STOP b2 | INPUT7 |
| BUTTON b3 | INPUT3 |
| BUTTON b4 | INPUT5 |
| STOP b5 | INPUT8 |
| BUTTON b6 | INPUT6 |

| | OUTPUTS |
|-----|--|
| SV1 | HOT STATION CYLINDER ACQ Φ40x120 |
| | HOT STATION CYLINDER ACE Φ100x100 |
| SV2 | HOT STATION CYLINDER ACE Φ80x100 |
| | HOT STATION CYLINDER SI Φ160x240 |
| SV3 | COLD STATION CYLINDER ACQ Φ40x120 |
| | COLD STATION CYLINDER ACE Φ 100x100 |
| SV4 | COLD STATION CYLINDER ACE Φ80x100 |
| | COLD STATION CYLINDER SI Φ160x240 |





Notes

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|----------|----------|---|--------------|----------|----------|---|---------------|---|---|------|---|--------------|----------|------|------|--------------------|---|---|---|---|---|---|------|----------|---|---------------------|---|----------|
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VC-19D Operator's manual





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