TRU-CURE IR3L/IR3LT

TC-IR3L-01 (904106 FOR USA)	TRU-CURE IR3L (NORTH AMERICA)
TC-IR3L-02	TRU-CURE IR3L (UNITED KINGDOM)
TC-IR3L-03	TRU-CURE IR3L (EUROPE)

TC-IR3LT-01 (904109 FOR USA)	TRU-CURE IR3LT WITH PYROMETER (NORTH AMERICA)
TC-IR3LT-02	TRU-CURE IR3LT WITH PYROMETER (UNITED KINGDOM)
TC-IR3LT-03	TRU-CURE IR3LT WITH PYROMETER (EUROPE)

For other languages of this service manual as well as additional product information, please scan the QR code above.

EC Declaration of conformity

According to testing institutes and according to the machine directive the Trisk Devilbiss products in this manual are not defined as machines, wherefore the machine directive reference cannot be included in this declaration.

In accordance with EN 17050-1:2010

We, Hedson Technologies AB
Box 1530
SE 462 28 Vänersborg
Sweden

declare under our sole responsibility that the products

Trisk Devilbiss TRU-CURE IR3L / IR3LT

that are used to accelerate the drying of paint, to which this declaration relates, are in conformity with the following standards

EN 60335-1:2002 +A11+A1+A12 +A2+A13	Specification for safety of household and similar electrical appliances General requirements
EN 60335-2-45:2002 +A1	Specification for safety of household and similar electrical appliances Particular requirements
EN 61000-6-3	Electromagnetic Compatibility, Generic Emission Standard
EN 61000-6-2	Electromagnetic Compatibility, Generic Immunity Standard
EN 61000-3-3	Limitation of voltage fluctuations
EN ISO 9001	Quality Management System
EN61000-3-12	Limits for harmonic current emissions

Compliance statement:

The EN61000-3-2 does not apply to this professional equipment. However it complies to EN61000-3-12 provided that the short circuit power Ssc is greater or equal to 300kVA or that the corresponding short circuit current Isc is greater or equal to 430A at interface point between user and public power system.

In accordance with the provisions of the following directives in their most current version

2014/35/EU	Low Voltage Directive
2014/30/EU	Electromagnetic Compatiblity

Vänersborg, Sweden, September 2022

Linus Ekfeldt
Product Company Director IRT

Declaration of conformity UKCA

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In accordance with the provisions of the following directives in their most current version

Electrical Equipment (Safety) Regulations 2016
Electro-magnetic Compatibility Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Vänersborg, Sweden, September 2022

Linus Ekfeldt
Product Company Director IRT

In this part sheet, the words **WARNING**, **CAUTION** and **NOTE** are used to emphasize important safety information as follows:

⚠ WARNING
Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.

⚠ CAUTION
Hazards or unsafe practices which could result in minor personal injury, product or property damage.

NOTE
Important installation, operation or maintenance information.

⚠ WARNING

Read the following warnings before using this equipment.

READ THE MANUAL
Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.

OPERATOR TRAINING
All personnel must be trained before operating finishing equipment.

EQUIPMENT MISUSE HAZARD
Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in serious injury.

LOCK OUT / TAG-OUT
Failure to de-energize, disconnect, lock out and tag-out all power sources before performing equipment maintenance could cause serious injury or death.

AUTOMATIC EQUIPMENT
Automatic equipment may start suddenly without warning.

PRESSURE RELIEF PROCEDURE
Always follow the pressure relief procedure in the equipment instruction manual.

KEEP EQUIPMENT GUARDS IN PLACE
Do not operate the equipment if the safety devices have been removed.

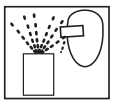
KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY

WEAR SAFETY GLASSES
Failure to wear safety glasses with side shields could result in serious eye injury or blindness.

INSPECT THE EQUIPMENT DAILY
Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.

NEVER MODIFY THE EQUIPMENT
Do not modify the equipment unless the manufacturer provides written approval.

NOISE HAZARD
You may be injured by loud noise. Hearing protection may be required when using this equipment.



PROJECTILE HAZARD
You may be injured by venting liquids or gases that are released under pressure, or flying debris.

PINCH POINT HAZARD
Moving parts can crush and cut. Pinch points are basically any areas where there are moving parts.

STATIC CHARGE
Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.

WEAR RESPIRATOR
Toxic fumes can cause serious injury or death if inhaled. Wear a respirator as recommended by the fluid and solvent manufacturer's Safety Data Sheet.

TOXIC FLUID & FUMES
Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, injected or swallowed. LEARN and KNOW the specific hazards or the fluids you are using.

FIRE AND EXPLOSION HAZARD
Improper equipment grounding, poor ventilation, open flame or sparks can cause a hazardous condition and result in fire or explosion and serious injury.

MEDICAL ALERT
Any injury caused by high pressure liquid can be serious. If you are injured or even suspect an injury:

- Go to an emergency room immediately.
- Tell the doctor you suspect an injection injury.
- Show the doctor this medical information or the medical alert card provided with your airless spray equipment.
- Tell the doctor what kind of fluid you were spraying or dispensing.

GET IMMEDIATE MEDICAL ATTENTION
To prevent contact with the fluid, please note the following:

- Never point the gun/valve at anyone or any part of the body.
- Never put hand or fingers over the spray tip.
- Never attempt to stop or deflect fluid leaks with your hand, body, glove or rag.
- Always have the tip guard on the spray gun before spraying.
- Always ensure that the gun trigger safety operates before spraying.

IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT.
FOR FURTHER SAFETY INFORMATION REGARDING THIS EQUIPMENT, SEE THE GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).

TRU CURE IR3L/IR3LT – GENERAL INFORMATION

FIELD OF APPLICATION

The Trisk Devilbiss IR3L/IR3LT are designed to provide an accelerated and even cure of most automotive refinishing materials. Typically drying of putty, filler, base and top coats, both water-based and solvent-based products. Its site of use is the preparation area and finishing area. Within the automotive industry and vehicle repair sectors, it is used to dry small areas and cure materials before polishing .

PRODUCT DESCRIPTION

The easily maneuverable Trisk Devilbiss IR3L/IR3LT are equipped with both dual and single lamp cassettes for easy adjustment and flexibility around curved parts without sacrifice to heat distribution. The design, combined with a gas spring, makes cassette adjustment simple. The IR lamps and reflectors are protected against mechanical damage with a mesh. The control unit enables flash off (50% power) and full bake (100% power). The time can be set individually for each mode (0-30 min). Additionally, the IR3LT unit is equipped with a contactless temperature control where the temperature can be set between 20°C and 99°C.

PARTICULAR ADVANTAGES

Unique reflector design
The Trisk Devilbiss IR3L/IR3LT features a unique dimpled sheet reflector that generates extremely even curing intensity and temperature over entire surfaces. This ensures the fastest possible curing time, while minimizing risk of over-curing or burning sections of your coating.

Good maneuverability
The Trisk Devilbiss IR3L/IR3LT are sized to cure higher surfaces such as hood and roof. Lockable gas piston makes it very easy to set point of parallel arm. IR3LT has a laser guided pyrometer displaying surface temperature readout which make it even easier to properly position the lamps.

TECHNICAL DATA

Electrical diagram, see page 10.

Rated Voltage	220V - 240 V, 50/60Hz Single Phase
Rated power	3 emitters, full power 3000 W
Heating elements	3 quartz, tungsten filament, Infrared emitters
Fuse*	16 A slow, type C (UK 13A) (NA 20 A)
Weight	48 kg
Noise level	Less than 70 dB (A)
Max ambient temperature during operation	40°C
Max ambient temperature during storage and transportation	70°C

* The dryer must be supplied by recommended fuse.

INSTRUCTION TO THE OWNER

The owner of the mobile dryer must produce clear operating instructions, adapted to local site conditions and applicable national / regional requirements, and make these available to all users.

Mobile dryer users must adhere to these operating instructions. The mobile dryer user must always ensure that sufficient technical ventilation is complied in accordance with the applicable national / regional requirements.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Dispose of spent items at the nearest environmental protection facility for recycling.

⚠ WARNINGS

FIRE AND EXPLOSION

Do not use in an area until it is checked and cleared of combustible and/or flammable materials.

Do not use in an area where the air may contain flammable dust, gas, or liquid vapors.

Never direct the heating equipment towards any pressurized vessel.

Never direct the heating equipment towards combustible or flammable materials.

If you have a distance less than 60 cm/2 feet to the object the temperature might raise quickly and the risk for fire increases.

ELECTRICAL EQUIPMENT

The mobile dryer is operated by highly dangerous electrical voltage.

ACCESSING ELECTRICAL EQUIPMENT

Before accessing live parts, remove the main connector from the wall socket. Only professional electricians may have direct access into the electrical equipment.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

WARNING!

Intensive heat radiation. Hands, face and other parts of the body should be exposed as little as possible to the heat radiation.

TRU CURE IR3L/IR3LT – OPERATING INSTRUCTIONS

IR3L – WITHOUT TEMPERATURE CONTROL

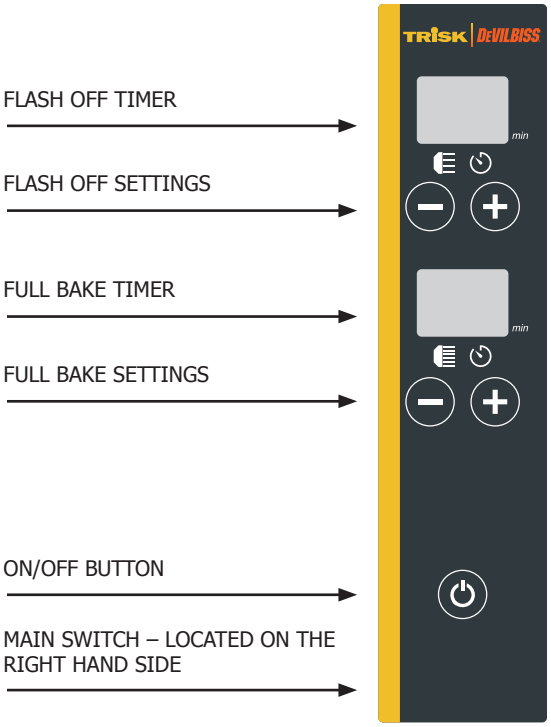
Turn the main switch on. This will initiate the electronics. Four dots will sequentially blink to indicate the start-up. Next the top display will show 1P (1-phase). The lower display shows the supply frequency 50 or 60 Hz.

When the start-up sequence is over, the displays show the active curing times in minutes. Flash-off at the upper and full bake at the lower.

Use the + and - buttons below the displays to change the settings. Pressing the buttons continously will rapidly increase the setting. Each timer can be set between 0 and 30 min. The settings will remain even after power-off and serve as default for the next curing operation.

Start the curing by pressing the On/Off button. The active timer will flash and the heater will switch off automatically when the set times have elapsed.

After idling for 30 minutes, the unit enters stand-by mode when a dot in each display flashes. Pressing any button will activate the unit again.



NOTES

Minimum curing distance is 50 cm and optimal curing distance is 60 cm.

The FLASH OFF timer controls the duration of the half power output of the emitters. The FULL BAKE timer controls the duration of the full power output of the emitters. If both FLASH OFF and FULL BAKE timers are used, the FLASH OFF timer will count down first and upon switching off it will engage the FULL BAKE timer automatically.

To stop the unit before the time is out, press the On/Off button.

Altering timers is possible even during curing.

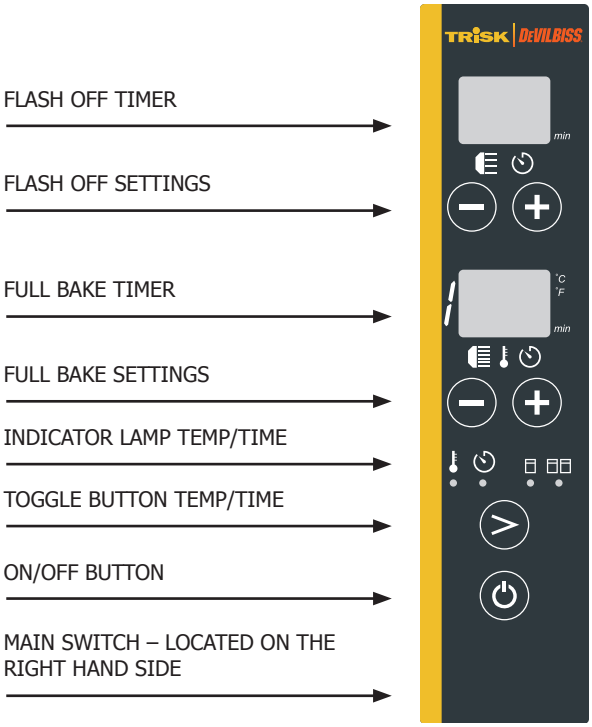
If the temperature inside the control unit rises over 65°C (149°F) , the unit switches off. The upper display will show Ot (over temperature) and the lower the actual temperature. Automatic reset when the temperature falls below 55°C (131°F) and the unit is ready for operation again.

TRU CURE IR3L/IR3LT – OPERATING INSTRUCTIONS

IR3LT – WITH TEMPERATURE CONTROL

The mobile dryer is equipped with an automatic temperature control. This enables optimum drying/ curing results within the shortest possible time. The temperature control (pyrometer) measures the temperature contactless by optics. The laser pointer indicates where the temperature is measured in the material cured.

The mobile dryer is also equipped with two power levels, flash off (50% power) and full bake (100% power) with individually timers.



START-UP

Turn the main switch on. This will initiate the electronics. Four dots will sequentially blink to indicate the start-up. Next the top display will show 1P (1-phase). The lower display shows the supply frequency 50 or 60 Hz.

When the start-up sequence is over, the displays show the last used curing values. The upper window shows flash off set time in minutes and the lower window shows the maximum temperature allowed or full bake set time in minutes. Use the toggle button to alter the lower window between maximum temperature or minutes settings for the fullbake.

SETTINGS

Use the + and - buttons below the displays to change the settings. Use the toggle button to change between maximum temperatur setting and minutes for full bake setting. Pressing the buttons continuously will rapidly increase the setting. Each timer can be set between 0 and 30 min and the temperature between 20°C and 99°C. The settings will remain even after power-off and serve as default for the next curing operation.

CURING

Start the laser by pressing the On/Off button once. Adjust the cassette so the laser point is visible on the surface to be cured and temperature measured. Start the curing by pressing the On/Off button a second time.

The active timer will flash and the heater will switch off automatically when the set times have elapsed. After idling for 30 minutes, the unit enters stand-by mode when a dot in each display flashes. Pressing any button will activate the unit again.

NOTES

Minimum curing distance is 50 cm and optimal curing distance is 60 cm.

The pyrometer measure the temperature at a diameter of 10cm around the laser dot.

Make sure that you don't measure the temperature on glass, tyres or outside the object (10 cm diameter around the laser dot). Otherwise, the result between the programmed temperature values and actual values may differ. This may lead to unsatisfactory results.

The FLASH OFF timer controls the duration of the half power output of the emitters. The FULL BAKE timer controls the duration of the full power output of the emitters. If both FLASH OFF and FULL BAKE timers are used, the FLASH OFF timer will count down first and upon switching off it will engage the FULL BAKE timer automatically.

Alternating between temperature and timer in the lower window is possible even during curing.

To stop the unit before the time is out, press the On/Off button.

If the temperature inside the control unit rises over 65°C (149°F), the unit switches off. The upper display will show Ot (over temperature) and the lower the actual temperature. Automatic reset when the temperature falls below 55°C (131°F) and the unit is ready for operation again.

MAINTENANCE

LAMP REPLACEMENT

NOTE

Only use original Trisk Devilbiss lamps with the correct power rating.

1. Disconnect power supply.
2. Remove the mesh.
3. Remove the old lamp.
4. Install new lamp in reverse order.

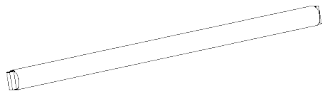
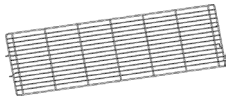
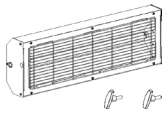
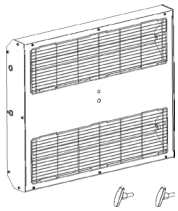
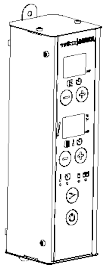
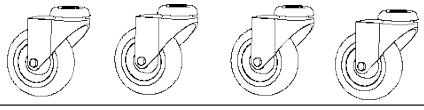
⚠ CAUTION

Do not touch the new lamp with your fingers. Remove the protective paper on the lamp after you have installed it.

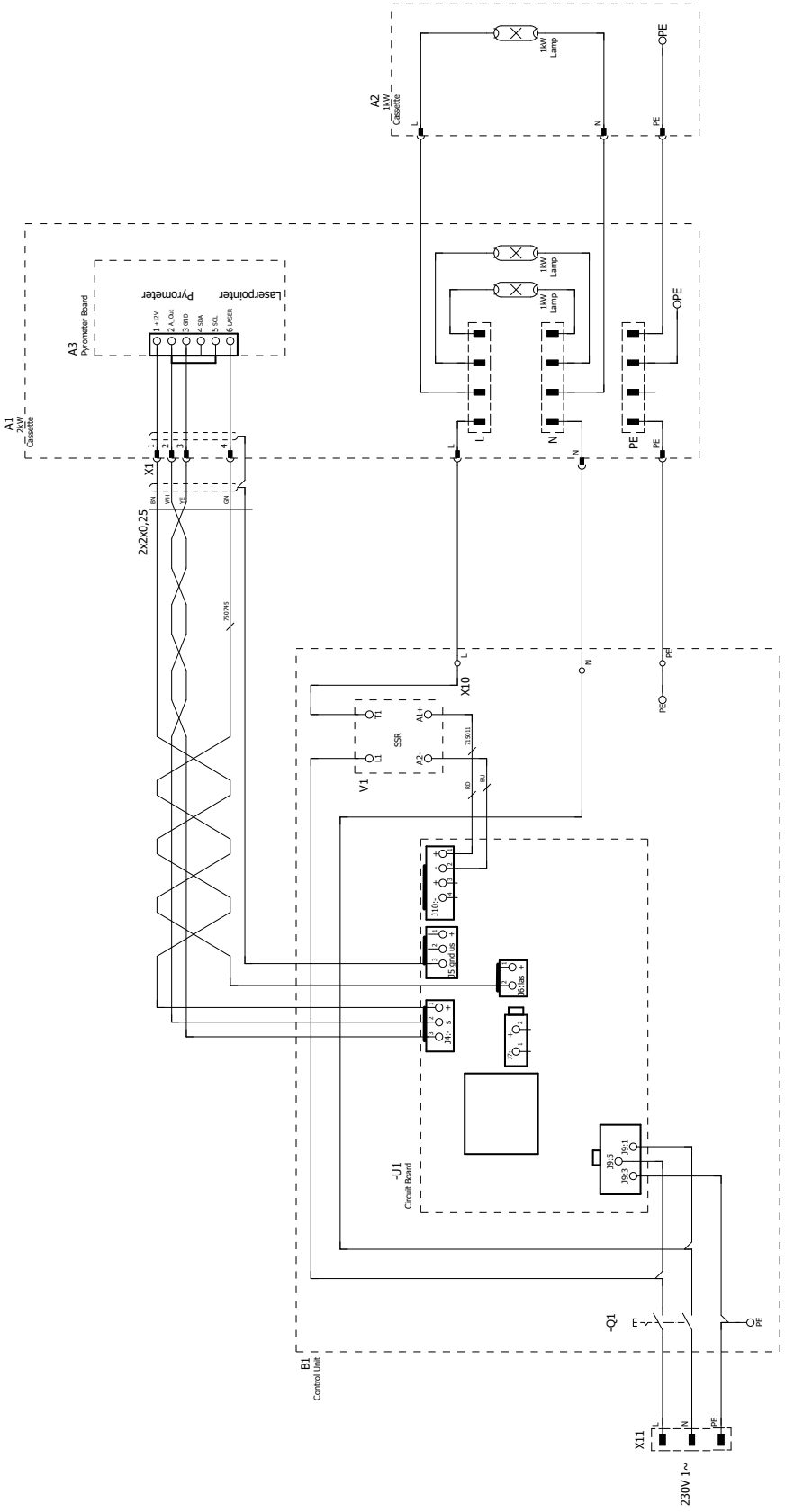
TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Solvent popping	Unit too close to panel Insufficient flash off time Paint system has fast thinner	Move unit further away Increase flash off time Use a standard or slow thinner
Undercure or softness of the paint film	Unit too far away Insufficient bake time Excessive film weight	Move unit closer Increase full bake time Apply lighter coats
Softness on the edge of repair	Repair too large for I.R. unit	Split area into two, move unit for 2nd application. If flash off is used, it will not be necessary on 2nd application.
Difficulty in polishing out dirt nibs	Too long on bake cycle Unit too close to panel	Reduce cure time Move unit further away

SPARE PARTS

PICTURE	PART NO.	DESCRIPTION
	410-1000 991000 for USA	1 KW IR QUARTS LAMP
	410-1001 991001 for USA	REFLECTOR
	410-1002 991002 for USA	PROTECTIVE MESH
	410-1003 991003 for USA	1 KW CASSETTE COMPLETE
	410-1004 991004 for USA	2 KW CASSETTE COMPLETE IR3L
	410-1005 991005 for USA	2 KW CASSETTE COMPLETE IR3LT
	410-1008	CONTROL UNIT COMPLETE IR3L (EU)
	410-1007	CONTROL UNIT COMPLETE IR3L (UK)
	410-1006 991006 for USA	CONTROL UNIT COMPLETE IR3L (NA)
	410-1011	CONTROL UNIT COMPLETE IR3LT (EU)
	410-1010	CONTROL UNIT COMPLETE IR3LT (UK)
	410-1009 991009 for USA	CONTROL UNIT COMPLETE IR3LT (NA)
	410-1012 991012 for USA	GAS STRUT 800 N
	410-1013 991013 for USA	CASTOR
	410-1016	CORD SET 5 M (EU)
	410-1015	CORD SET 5 M (UK)
	410-1014 991014 for USA	CORD SET 5 M (NA)
	410-1017 991017 for USA	POWER CABLE 0.5 M – CASSETTE TO CASSETTE
	410-1020 991020 for USA	POWER CABLE 2.5 M – CONTROL UNIT TO CASSETTE
	410-1023 991023 for USA	CONTROL CABLE TEMP/LASER 2.5 M – CONTROL UNIT TO CASSETTE

ELECTRICAL DIAGRAM



NOTES

WARRANTY POLICY

This product is covered by Carlisle Fluid Technologies' materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Carlisle Fluid Technologies, will void all warranties. Failure to reasonably follow any maintenance guidance provided may invalidate any warranty.

For specific warranty information please contact Carlisle Fluid Technologies.

For technical assistance or to locate an authorized distributor, contact one of our international sales and customer support locations.

Region	Industrial / Automotive	Automotive Refinishing
Americas	Tel: 1-800-992-4657 Fax: 1-888-246-5732	Tel: 1-800-445-3988 Fax: 1-800-445-6643
Europe, Africa, Middle East, India	Tel: +44 (0)1202 571 111 Fax: +44 (0)1202 573 488	
China	Tel: +8621-3373 0108 Fax: +8621-3373 0308	
Japan	Tel: +81 45 785 6421 Fax: +81 45 785 6517	
Australia	Tel: +61 (0) 2 8525 7555 Fax: +61 (0) 2 8525 7575	

For the latest information about our products, visit www.carlisleft.com

Carlisle Fluid Technologies is a global leader in innovative finishing technologies.
Carlisle Fluid Technologies reserves the right to modify equipment specifications without prior notice.

CARLISLE FLUID TECHNOLOGIES

16430 North Scottsdale Rd., Suite 450 Scottsdale, AZ 85254 USA