

TECHNICAL NOTE N. 015LB - 07/04/2006

SUBJECT:	Front Loading and Top Loading Washing Machines: new "Core" Control Modules, made by "INVENSYS".
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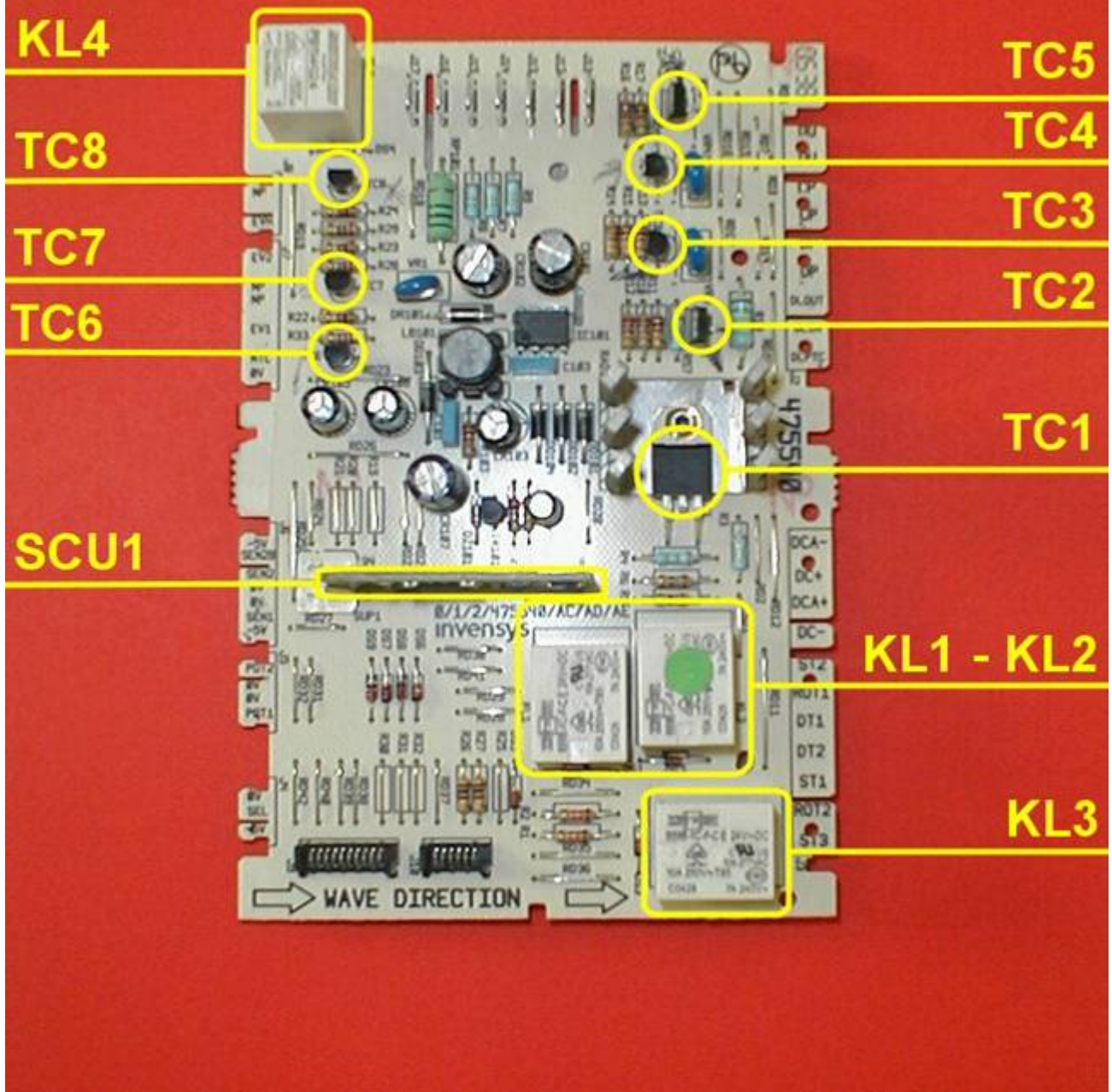
It's starting in these days, the progressive embodiment in production of a new **"Core" module by the "INVENSYS" manufacturer**, on some models of **Front Loading Washing Machines**, produced in our Candy factory of Brugherio (Italy). This new type of Control Module, **will be fitted onto the Top Loaders produced in the Mayc** factory of Bergara (Spain) as well. The new "Core" Control Modules produced by the "INVENSYS" company, is made totally under Candy design, following our experiences on the Control Modules by "MDL", and will allow us a large flexibility in design.

It's true for the new Control Modules by "INVENSYS", what we previously said for all the other "Core" Modules: each time it becomes necessary the replacement of the "Core" Module, due to the burning of one of it's electronic components, we must ALWAYS previously check the conditions and the insulation of the electromechanical part, that is controlled by the burned electronic component.

Therefore we hereunder list **the various electronic components** that can be found on a "Core" Control Module by "INVENSIS", together with the related electromechanical controlled components. In **Picture 1**, you can see where the said electronic components are located, on the "Core" Module printed board.

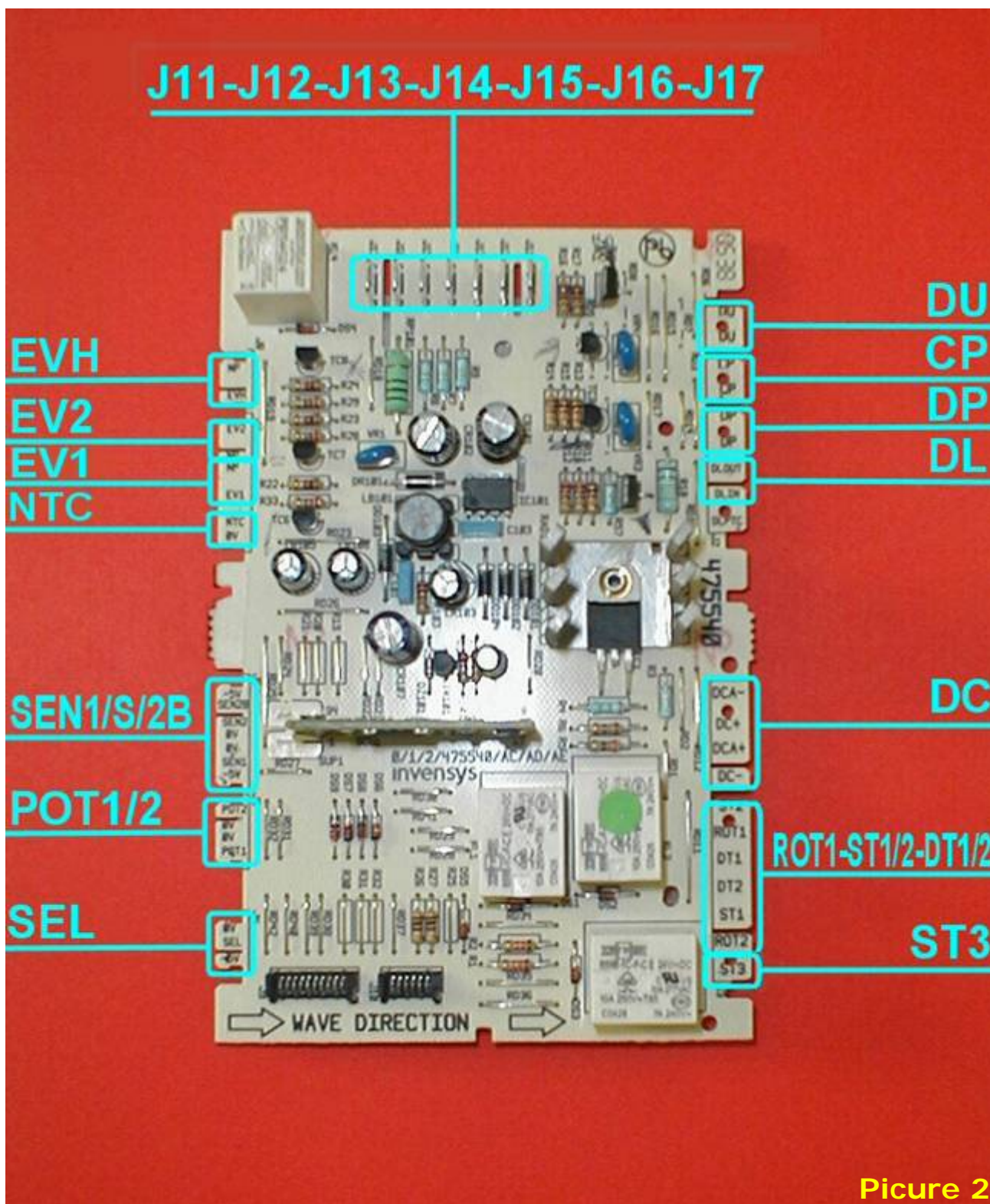
Electronic Components	Electromechanical components. Check that it's not short circuited, whenever the related electronic component is found burned.
TC1	Synchronous Motor with carbon brushes and collector.
TC2	Door Lock Safety Device.
TC3	Electric Drain Pump.
TC4	Electric Recycling Pump.
TC5	Drum's Brake Device (Top Loading Washing Machines).
TC6	Solenoid Water Valve for Cold Water (pre-wash).
TC7	Solenoid Water Valve for Cold Water (washing).
TC8	Solenoid Water Valve for Hot Water (washing).
KL1 - KL2	Motor's Inverters (sense of rotation).
KL3	Feeding of Motor's "tapped field" Stator.
KL4	Water Heating Element.
SCU1	Eeprom Memory Board - contains all program's files.

Picture 1



For the sake of the completeness of information, we are informing you in **Picture 2** about the function of the most **important end contacts of some printed tracks** as well, whenever they are directly connected with an electromechanical component.

It's true indeed the a short circuited electromechanical component (more than burning out the related electronic driving component on the Module), could sometimes instead cause the interruption of the related Module's printed track.



Picture 2

In the following page, you can find the description of the function of the various sensible end contacts, of some "INVENSYS" Control Module's printed tracks, with the related connected electromechanical components.

References of printed track's end contacts .	Electromechanical components. Check that it's not short circuited, whenever the related printed track is found interrupted.
DU	Drum's Braking Device (Top Loaders Washing Machines).
CP	Recycling Electric Pump.
DP	Drain Electric Pump.
DL	Door Lock Safety Device.
DC	Feeding Contacts for Continuous Current Motor.
ROT1-ST1/2-DT1/2	Rotor-Stator Synchronous Motor / Tacho Dynamo.
ST3	Stator Contacts for Field Effect Motor.
EVH	Hot Water Solenoid Valve (washing).
EV2	Cold Water Solenoid Valve (washing).
EV1	Cold Water Solenoid Valve (pre-wash).
NTC	NTC Water Temperature Reading Probe.
SEN1/S/2B	Sensors Contacts (not used, at the present time).
POT1/2	Potentiometers Contacts (temperature and spin adjustment).
SEL	Washing Programs Selector's Contacts.
J11-J12	Feeding Contacts for the Water Heating Element (output tension = 230V).
J13-J14-J15	Contacts for the Water Level Pressostat.
J16-J17	Control Module's feeding Contacts (input tension = 230V).

We remind you to ALWAYS PAY THE HIGHEST CARE, while reading network tension values, on the wiring and on the Control Module's printed tracks.

NOTE: At the present moment, the **"Core" Control Module by "INVENSYS" cannot be programmed** with the "CuoreMaster" Interface Programming Unit. For this reason, in the lists of spares of the related appliances of the Giastech Web, you'll be finding now the only part numbers of the "already programmed" Control Modules by "INVENSYS". We'll inform you, as soon as it becomes available a whatever opportunity of programming the said modules, at a Service laboratory.

Eventually, we like to point out an additional confirmation of the increasing level of quality of our appliances: on all wirings of the washing machines equipped with the new "Core" Modules by "INVENSYS", we almost completely eliminated the old "AMP" connectors and we replaced them (on all "sensible" connections), with new and safer high quality connectors for electronics.

Best regards.

GIAS S.r.l.