

# Truck-Trailer Electronics Repair

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[sales@am-solution.com](mailto:sales@am-solution.com)



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## Contact information

### AM-Solution B.V.

#### Electronics Division

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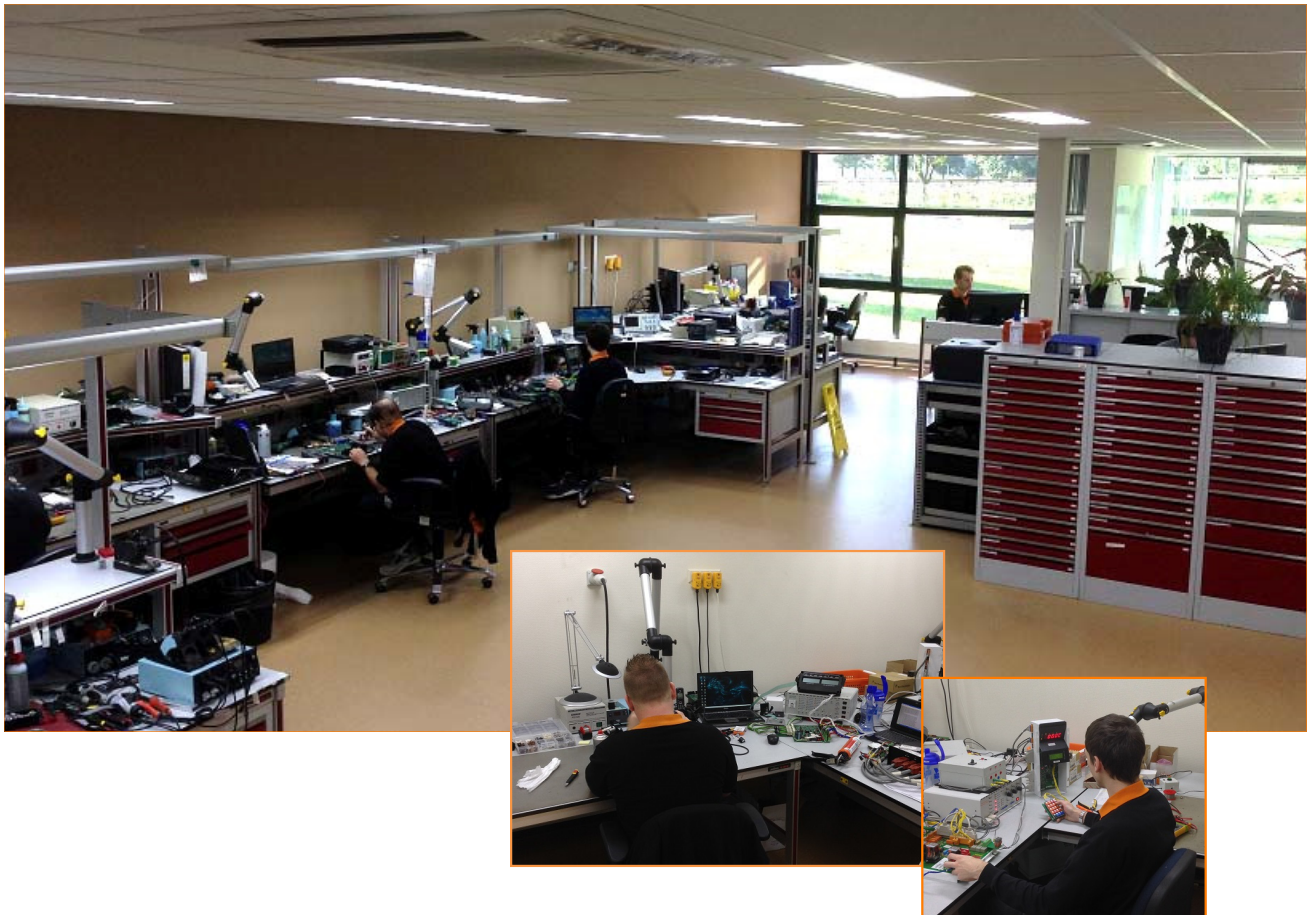
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AM-Solution



The Electronics Division (ED) started in 1994, with the repair of reefer electronics. We have also built up considerable experience in repairing truck-trailer electronics, since we started to offer this service in early 2000.

Our manufacturer supported service, can be very cost effective; especially when working with service contracts. The savings can rise up to 75%.

Our electronics department can currently repair or modify a wide variety of parts.

Quality is very important, all repairs are carried out according to IPC electronics standards.

Like ISO, IPC sets high quality standards for the electronics industry regarding the repair and rework of electronic circuits and/or Printed Circuit Boards (PCBs). IPC devotes its resources to management improvement and technology enhancement programs, the creation of relevant standards and the protection of the environment.

Therefore, a one year no nonsense guarantee on all "Repair Price List Parts" is applicable.

We also act as a knowledge base for our customers as far as technical questions and solutions are concerned.

## Frequently Ask Questions

### Is it possible to send your parts for repair?

The repair of defective electronics is an "open market". This means you can do whatever you want with your electronic parts.

### How does it work?

If you have defective electronics follow the 3 simple steps below:

Step 1: Collect your defective parts:

Step 2: Produce a letter detailing the following company information:

Company name  
Contact person  
Delivery address and invoice address (if applicable)  
E-mail address  
Order number (if applicable)  
VAT number

Step 3: Send your parts and the company information to the address below:

AM-Solution B.V.  
Attn: ED (Electronics Division)  
Hoogvlietsekerkweg 126a  
3194 AM Hoogvliet  
The Netherlands

### What can you expect from us?

- All orders will be confirmed within 24 hours, with details of costs and the expected delivery date.
- The delivery time for the repaired parts depends on the volume but is, at the most, 4 days.
- Following repair, all controllers will be fitted with the latest software versions (EPROMS or FLASHPROMS).
- Old EPROMS will be put in a separate box, and will be sent together with the repaired controllers so you can choose whether to use the most recent or the old software.
- All hour meters will be reset to zero\*. We will make a note of the controller hours on a separate form prior to repair.
- Faceplates will be renewed, if necessary, without additional cost.
- Modifications will be made to known weak components: our extensive experience in this field means that a lot of potential problems can be prevented.
- One year full "no nonsense" warranty.
- Excellent service and quality.

\* Not yet possible for SR3 controllers.

## Cab control part numbers

Photo	Part number	Description
	AT451728 AT451705 AT413100 AT451735 AT451771 AT413449 AT451780 AT452086 AT413949 AT413161 AT413333 AT451997 AT452141 AT451928 AT451929 AT411852 AT451617	Cab control M9 Cab control M10 Cab control M12 Cab control M12B Cab control M12B Cab control M13 Cab control M13 Cab control M13 Cab control M14 Cab control M14 Cab control M15 Cab control M15 Cab control M15-II Cab control M16 Cab control M17 Cab control Cab control
	AT410669 AT410670 AT411544 AT413305 AT449638 AT449639 AT411545 AT413306 AT410671 AT411546 AT413307 AT410672 AT411547 AT413308	TG-V In-Cab controller 12V TG-V In-Cab controller 12V TG-V In-Cab controller 12V TG-V In-Cab controller 12V TG-V In-Cab controller 12V TG-V In-Cab controller 12V TG-V In-Cab controller 12V with mod TG-V In-Cab controller 12V with mod TG-V In-Cab controller 24V TG-V In-Cab controller 24V TG-V In-Cab controller 24V TG-V In-Cab controller 24V with mod TG-V In-Cab controller 24V with mod TG-V In-Cab controller 24V with mod
	AT410673 AT410571 AT411548 AT413310 AT411549 AT413311	TG-V In-Cab controller 12V 2 temp TG-V In-Cab controller 12V 2 temp TG-V In-Cab controller 12V 2 temp TG-V In-Cab controller 12V 2 temp TG-V In-Cab controller 24V 2 temp TG-V In-Cab controller 24V 2 temp
	AT451626 AT451866  AT451734 AT451870  AT451811 AT451812 AT451814	Remote cab control Remote cab control  Remote cab control multitemp Remote cab control multitemp  Remote cab control 3 temp flush mount Remote cab control 2 temp flush mount Remote cab control multitemp flush mount
	AT452072	Controller In-Cab DSR
	AT414942 AT416600 AT452283 AT452300 AT452306  AT452306 AT452372	SR2 HMI SR2 HMI SR2 HMI SR2 HMI SR2 HMI  SR3 HMI SR3 HMI  <b style="color: orange;">Broken LCD screens will be replaced.</b>
	AT414150 AT452032 AT452076 AT452097 AT452385	Spectrum TS HMI Spectrum TS HMI Spectrum TS HMI Spectrum TS HMI Spectrum TS HMI

## Controller part numbers

Photo	Part number	Description
	AT451424 AT451450 AT451486 AT451579	Thermostat TG-V Thermostat TG-V Thermostat TG-V Thermostat TG-V
	AT411954 AT451708 AT451709 AT452194 AT452220 AT452431	Controller micro P-T cycle sentry Controller micro P-T cycle sentry Controller micro P-T cycle sentry Controller micro P-T cycle sentry Controller micro P-T cycle sentry Controller micro P-T cycle sentry
	AT451613 AT451767 AT452180 AT452420	Controller TG-VI cycle sentry Controller TG-VI cycle sentry Controller TG-VI cycle sentry Controller TG-VI cycle sentry
	AT451625 AT451768	Controller TG-VIa Controller TG-VIa
	AT451624 AT451769 AT452181	Controller TG-VIb cycle sentry with mod Controller TG-VIb cycle sentry with mod Controller TG-VIb cycle sentry with mod

## Controller part numbers

Photo	Part number	Description
	AT451440 AT451520 AT451524 AT451535 AT451596 AT451600 AT452418  AT451441 AT451521 AT451525 AT451536 AT451597 AT451601 AT452419	Controller micro P-IV Controller micro P-IV Controller micro P-IV Controller micro P-IV Controller micro P-IV Controller micro P-IV Controller micro P-IV  Controller micro P-IV with logger Controller micro P-IV with logger Controller micro P-IV with logger Controller micro P-IV with logger Controller micro P-IV with logger Controller micro P-IV with logger Controller micro P-IV with logger
	AT451731  AT451732	Controller micro P-IV+  Controller micro P-IV+ with logger
	AT451339 AT451493 AT451610 AT451748 AT451784 AT451961 AT452428  AT451785 AT452429	Controller micro P-IV mt Controller micro P-IV mt Controller micro P-IV mt Controller micro P-IV mt Controller micro P-IV mt Controller micro P-IV mt Controller micro P-IV mt  Controller micro P-IV mt with logger Controller micro P-IV mt with logger
	AT451962  AT451963	Smart Reefer micro P-IV mt  Smart Reefer micro P-IV mt with logger

## Controller part numbers





Photo	Part number	Description
	AT451789 AT451801  AT451790 AT451802	Controller micro P-V Controller micro P-V  Controller micro P-V with logger Controller micro P-V with logger
	AT451836 AT451841 AT451930 AT452425	Controller micro P-VI Controller micro P-VI Controller micro P-VI Controller micro P-VI
	AT452073 AT452190 AT452074 AT452191  AT452075 AT452192 AT452094 AT452193	Controller DSR 12V Controller DSR 12V Controller DSR 24V Controller DSR 24V  Controller DSR 12V multitemp/V500 Controller DSR 12V multitemp/V500 Controller DSR 24V multitemp/V500 Controller DSR 24V multitemp/V500
	AT452013 AT452115 AT452146 AT452147 AT452268 AT452279 AT452302 AT452570  AT452362 AT452446 AT452615  AT452127 AT452149	SR2 controller SR2 controller SR2 controller SR2 controller SR2 controller SR2 controller SR2 controller SR2 controller  SR3 controller SR3 controller SR3 controller  SR2 controller & interface relay board SR2 controller & interface relay board
	AT451951 AT452070 AT452091 AT452198	Spectrum TS controller Spectrum TS controller Spectrum TS controller Spectrum TS controller










## Module part numbers

Photo	Part number	Description
	AT410866 AT416596	I/O module micro P-IV mt I/O module micro P-IV mt
	AT451848 AT451910 AT452231  AT45-2247	Datalogger DAS II Datalogger DAS II Datalogger DAS II  Datalogger DAS IV
	AT414096	Spectrum TS power supply board
	AT414097	Spectrum TS multi temp board
	AT416889	Expansion module SR-2 mt




## Recorder part numbers

Photo	Part number	Description
	AT452117 AT452119	TranScan 2R 512kB memory TranScan 2R 128kB memory
	AT452118 AT452120	TranScan 2T 512kB memory TranScan 2T 128kB memory
	AT452121 AT452122	TranScan 2C 512kB memory TranScan 2C 128kB memory
	AT400900 AT401048 AT401083	DPS external mount printer DPS external mount printer DPS external mount printer

## Relay board part numbers

Photo	Part number	Description
	AT412092 AT413249 AT414258  AT413248 AT414260	PC board 12V no electr PC board 12V no electr PC board 12V no electr  PC board 12V, 1PH, 24V PC board 12V, 1PH, 24V
	AT413247 AT414259	PC board N9.2 3 phase PC board N9.2 3 phase
	AT414263 AT451868 AT414262	PC board N11.1 1 phase PC board N11.1 1 phase PC board N11.1 3 phase
	AT448454 AT449865	Cycle sentry board Cycle sentry board
	AT411323 AT412145 AT413325 AT414458 AT414981 AT415366 AT417053 AT418088 AT452219	Relay board micro P-T Relay board micro P-T Relay board micro P-T Relay board micro P-T Relay board micro P-T Relay board micro P-T Relay board micro P-T Relay board micro P-T Relay board micro P-T
	AT410220 AT410467 AT410505 AT410737 AT411155 AT412071 AT412077 AT413057 AT413058 AT413411 AT413412 AT413727	Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V Relay board TG-VI/micro P-IV, V
	AT411284 AT412675 AT412783 AT412784 AT413054 AT413055 AT413348 AT413349 AT413562 AT413563 AT415763 AT416931 AT417288 AT417423	Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt Relay board micro P-IV mt

Relay board part numbers

Photo	Part number	Description
	AT412500 AT413060 AT413061 AT414316 AT414915	Relay board micro P-VI Relay board micro P-VI Relay board micro P-VI Relay board micro P-VI Relay board micro P-VI
	AT415363 AT452014 AT452148 AT452151 AT452275 AT452276 AT452571 AT455363  AT452503 AT452361 AT452614  AT452127 AT452149	SR2 interface relay board SR2 interface relay board SR2 interface relay board SR2 interface relay board SR2 interface relay board SR2 interface relay board SR2 interface relay board SR2 interface relay board  Board interface SR3 Board interface SR3 Board interface SR3  SR2 controller & interface relay board SR2 controller & interface relay board
	AT414090 AT414098 AT416846	Spectrum TS interface relay board Spectrum TS interface relay board Spectrum TS interface relay board

## Carrier Supra/Maxima part numbers

Photo	Part number	Description
	AC120030700 AC120051500  AC120030750	Display assembly Maxima Display assembly Maxima  Keypad sticker Maxima
	AC120051500  AC910033300  AC910033301 AC910033302	Display board EasyCold  Display assembly EasyCold  Display assembly EasyCold mt Display assembly EasyCold mt
	AC120032500	Cab command micro control
	AC1200324XX AC1200359XX AC1200382XX  AC1200648XX  AC1200359XX AC1200368XX  AC1200650XX	Logic board Supra/Oasis Logic board Supra/Oasis Logic board Supra/Oasis  Logic board Supra/Oasis  Logic board Supra/Oasis mt Logic board Supra/Oasis mt  Logic board Supra/Oasis mt
	AC1200514XX  AC1200649XX	Logic board Maxima/Supra/Oasis mt  Logic board Maxima/Supra/Oasis mt
	AC1200460XX  AC1200502XX  AC12005300 AC12005301 AC12005302 AC12005303  AC12005310 AC12005311	Relay board Supra/Oasis  Relay board Supra/Oasis mt  Relay board Maxima Relay board Maxima Relay board Maxima Relay board Maxima  Relay board Maxima mt Relay board Maxima mt

Carrier Vector part numbers

Photo	Part number	Description
	AC9100311XX AC9100312XX AC9100313XX AC120045000 AC765012500	Display board Vector Display module Vector Display module Vector incl. switches Keypad sticker Vector Keypad sticker Vector
	AC1200438XX AC1256438XX	Controller Vector Controller Vector
	AC300043401 AC300043402 AC300043403 AC300043404  AC300043410 AC300043412 AC300043413  AC120068302 AC120068310  AC3000416XX	Battery charger 12V Battery charger 12V Battery charger 12V Battery charger 12V  Battery charger 24V Battery charger 24V Battery charger 24V  Battery charger 12V Battery charger 12V  Battery charger 12V

## Extra services

Part number	Description
AIRESET * AISWUPGRADE ** AIUPGRADE ***	Hour meter reset (free at repair, except for SR3 controllers) Software upgrade (free at repair) Controller upgrade
*	<i>Hour reset is for service purposes only. We absolutely give no cooperation or consent of fraud on the hour meters</i>
**	<i>DSR software upgrade to latest version. (Currently 273.4 or 380.11)</i>
***	<i>Upgrade <b>TG-VIa</b> to <b>TG-VI</b> (with cycle sentry) Upgrade <b>TG-VIa</b> to <b>TG-VIb</b> (with cycle sentry and modulation) Upgrade <b>TG-VI</b> to <b>TG-VIb</b> (with cycle sentry and modulation) Upgrade <b>μP-IV</b> to <b>μP-IV</b> with logger Upgrade <b>μP-IV+</b> to <b>μP-IV+</b> with logger Upgrade <b>μP-IVmt</b> to <b>μP-IVmt</b> with logger Upgrade <b>μP-V</b> to <b>μP-V</b> with logger</i>

## Features and conditions

- Prices are effective as from 1 July 2014.
- Prices are NET prices and excl. transportation costs or local fees.
- No additional costs for small orders.
- No cure, no pay.
- No forms to be completed, just simply send your parts.
- All orders will be confirmed within 24 hours, with details of costs and expected delivery date.
- One year full "no nonsense" warranty on all parts detailed in our repair price list.
- Normal repair time is within 4 working days.
- Following repair, all controllers will be fitted with the latest software.
- Parts not mentioned in the price list can be repaired on request.
- We accept all electronic parts, except heavily burnt, heavily corroded, broken or non-professionally repaired parts.
- We reserve the right to refuse parts which cannot be repaired because of manufacturer specific components.
- The defective PCB must be complete; missing parts will be subject to additional charges (e.g. relays).
- In case of warranty AM-Solution cannot be held liable for lost cargo.
- Prices are dependent on the USD rate, and can be changed without notification.
- All orders are subject to AM-Solution's general conditions, as filed at the Rotterdam Trade Register, Nr. 52399788
- AM-Solution's general conditions will be sent on request.



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# AM-Solution

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