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To: Technical managers / Service technicians

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Inland  RSO / ND  RS / EWR  IS/EW, ISE/EWEI  
 For info RSO / ND

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## DTCO<sup>®</sup> GeoLoc

### GPS-based motion detection

By 1st October 2012, all digital tachographs must provide a second, independent motion signal when activated and installed in new vehicles.

Unfortunately this is not possible for all types of vehicles — and particularly in the case of the M1/N1 class vehicles, an IMS must be provided by a different method during retrofitting.

This is why we are putting our new DTCO Geoloc product on the retrofit market. It uses GPS-based motion detection to provide the DTCO with this signal.

### DTCO<sup>®</sup> - GeoLoc Kit A2C59514979



This consists of:



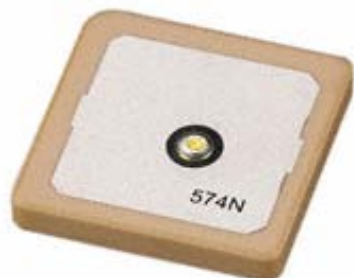
A2C59514839 GeoLoc  
*(can't ordered separately)*



A2C59514981 Adhesive pad

**General installation instruction:**

It must be ensured, that the Box always need to have direct sight to the satellite. In principle the preferred mounting position should be on the dashboard, on the side window or on the wind screen.



The GPS receiver antenna (Patch-Antenna) is located underneath the type sign.  
This means, that the type sign must always point „to the satellite”.



Installation example:

**Hint:**

In general the box is always equipped with a 120 Ohm-Can- Generell ist die Box immer mit einem 120Ohm-CAN-terminator.

At the CAN-wiring to CAN1 or at CAN2 this has to be taken into account!

The first GeoLoc GPS-Receiver won't be delivered with open cable ends, but also with a chipped MOLEX-connector plug!



Matching 16-pin MOLEX-43025-1608 Plug:

[http://www.molex.com/molex/products/datasheet.jsp?part=active/0430251608\\_CRIMP\\_HOUSINGS.xml](http://www.molex.com/molex/products/datasheet.jsp?part=active/0430251608_CRIMP_HOUSINGS.xml)

Connection of DTCO<sup>®</sup> GeoLoc to CAN1 of DTCO<sup>®</sup> 1381 Release 2.0a

Plug/Pin	Cable colour	Signal description	DTCO <sup>®</sup> Pinning
6	Yellow	Ignition	A3
7	Black	Ground	A5
8	Red	Supply (9-36V)	A1
9	Brown	CAN1 Low	A8
10	Orange	CAN1 High	A4
	All other	Reserved	--

Connection of DTCO<sup>®</sup> GeoLoc to CAN2 of DTCO<sup>®</sup> 1381 Release 2.0a

Plug/Pin	Cable colour	Signal description	DTCO <sup>®</sup> Pinning
6	Yellow	Ignition	A3
7	Black	Ground	A5
8	Red	Supply (9-36V)	A1
9	Brown	CAN1 Low	C7 (resp. bridge to C8)
10	Orange	CAN1 High	C5
	All other	Reserved	--

Of course the plug can also be disconnected by alternative and discrete be connected to the DTCO<sup>®</sup>.

**Planned series extradition:**



**Cable colours:**

**Connection of DTCO<sup>®</sup> GeoLoc to CAN1 of DTCO<sup>®</sup> 1381 Release 2.0a**

Cable colour	Signal description	DTCO <sup>®</sup> Pinning
<i>Red</i>	Supply (9-36V)	<b>A1</b>
<i>Yellow</i>	Ignition	<b>A3</b>
<i>Orange</i>	CAN1 High	<b>A4</b>
<i>Black</i>	Ground	<b>A5</b>
<i>Brown</i>	CAN2 Low	<b>A8</b>
All others	Reserved	--

**Connection of DTCO<sup>®</sup> GeoLoc to CAN2 of DTCO<sup>®</sup> 1381 Release 2.0a**

Cable colour	Signal description	DTCO <sup>®</sup> Pinning
Rot ( <i>red</i> )	Supply (9-36V)	<b>A1</b>
Gelb ( <i>yellow</i> )	Ignition	<b>A3</b>
Orange ( <i>orange</i> )	CAN1 High	<b>C5</b>
Schwarz ( <i>black</i> )	Ground	<b>A5</b>
Braun ( <i>brown</i> )	CAN2 Low	<b>C7 (resp. bridge to C8)</b>
All others	Reserved	--