

# Technical Service Bulletin

## December 17, 2012



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### TSB Title

M-VCI J2534 BMW Vehicle Connection

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### Application/System

M-VCI Software J2534 functionality with BMW Integrated Service Technical Application (ISTA)

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### Affected Model Year Coverage, Software Application, and Tester Hardware

#### Affected Model(s) and Year(s):

Model Year 2005 and older BMW and Mini vehicles.

#### Problem Description:

BMW and Mini vehicles have two separate K-line networks to which connection is required for successful BMW ISTA program operation. When used with BMW ITSA program, for proper operation and communication with all installed vehicle ECUs, M-VCI will need to “see” certain K-line network circuit pins tied together on the above defined range of BMW and Mini vehicle models.

#### Software Application(s) and Version:

M-VCI Software v12.4.6

#### Tester Hardware:

Mastertech Vehicle Communication Interface (M-VCI)

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### Resolution and/or Work Around

Shown below are M-VCI to BMW K-line connection procedures based on the Model Year of the vehicle.

- ▶ Procedure A is for MY2005-2001 (and some earlier) vehicles that are equipped with the 16p vehicle DLC and not equipped with the 20p “underhood” BMW vehicle DLC.
  - See Appendix A of this document for example list of vehicles which require Procedure A
- ▶ Procedure B is for MY2000 and older vehicles that are equipped with the 20p “underhood” BMW vehicle DLC.

Ensure that vehicle DLC configuration is correctly identified and follow the appropriate procedure when using the above information.

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### Application Notes

**Note 1:** Information about BMW ISTA Software capabilities, use, and specifically, setup with a J2534 device is available at [www.bmwtechinfo.com](http://www.bmwtechinfo.com).

**Note 2:** To prevent application program confliction, Users are recommended to install BMW ISTA software on a separate personal computer which does not have any other J2534 applications installed.

**Note 3:** For MY2006 and newer BMW and Mini vehicles, the procedures defined here do not apply because newer vehicles support the CAN network.

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## Procedure A

MY 2005-2001 (and some earlier) vehicles with 16 pin Data Link Connector (and not equipped with the 20p “underhood” BMW vehicle DLC).

**Option 1:** jump tester 16 pin DLC connector to the on-vehicle 16p Data Link Connector together using a customer improvised jumper wire harness:

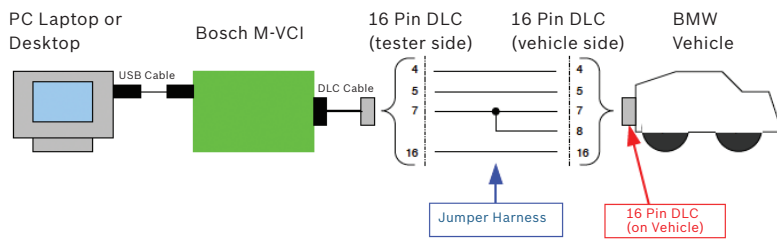


Figure 1 – Procedure A, Option 1 for connecting M-VCi to BMW vehicle with 16p DLC

**Option 2:** jump pins 7 and 8 together using a 16p J1962 Breakout Box:

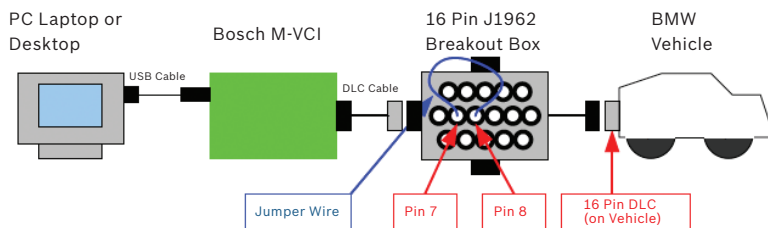


Figure 2 – Procedure A, Option 2 for connecting M-VCi to BMW vehicle with 16p DLC

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## Procedure B

MY 2001 and older vehicles with 20 pin Data Link Connector:

**Option 1:** jump tester 16 pin DLC connector to the on-vehicle 20p Data Link Connector together using a customer improvised jumper wire harness:

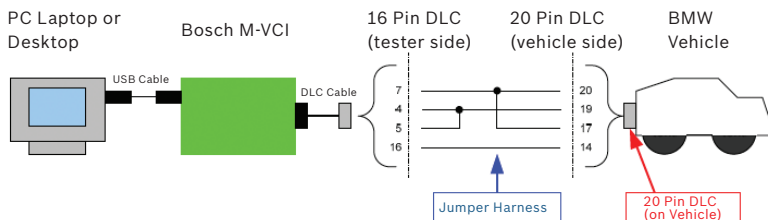


Figure 3 – Procedure B, Option 1 for connecting M-VCi to BMW vehicle with 20p DLC

**Option 2:** use Bosch BMW 20p adapter p/n 1 684 463 631 and jump pins 7 and 3 together using a 16p J1962 Breakout Box:

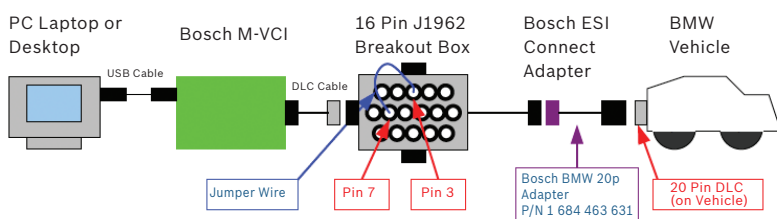


Figure 4 – Procedure B, Option 2 for connecting M-VCi to BMW vehicle with 20p DLC

\*At some point in the future, Bosch Diagnostics may have BMW specific push-on adapters that can be utilized for the above two procedures. Check with Bosch Customer Service for updates on availability.

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## Appendix A

Table of MY2005-2001 BMW and Mini vehicle series and platform that are equipped with 16p underdash connector which require connection per Procedure A. Application list below is approximate.

Vehicle Series	Platform
3 Series	E36
	E46
5 Series	E39
7 Series	E38
X Series	E83
	E53
	X3
	X5
Z Series	E36/7 & E36/8
	E85 & E86
	E89
	E52
MINI	R50
	R52
	R53

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