Harness Identification and Application

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Introduction

This document identifies all harnesses available in MyAdmin, and some harnesses only available by special order. It also identifies the description as seen in MyAdmin, the length of the harness, the purpose, the GO devices it supports, and the harness it replaced (if applicable) or the harness name it will be moving to. In cases of GO4 harnesses and some of the other harnesses, we expect to keep them as is until we run out of stock, at which time they will be End of Life.

Naming Conventions

In June of 2014, we updated our harness naming convention. This section outlines the new naming convention and the definitions around what each character or group of characters means.

Harnesses all start with the HRN prefix followed by 6-character names as defined below. All characters are alphanumeric and no I’s or O’s are used to avoid confusion.

Examples:
Below are examples explaining the names

- **HRN-DS09T2**
  - D represents a Deutsch connector
  - S represents a Standard OBD, Deutsch, or FMS connector
  - 09 represents 9 pins / wires
  - T represents a T-harness
  - 2 represents a length in the range of 12-24 inches or 30-60 cm

- **HRN-BS16S4**
  - B represents OBD type connectors
  - S represents a Standard OBD, Deutsch, or FMS connector
  - 16 represents 16 pins / wires
  - S represents a straight harness
  - 4 represents a length in the range of 36-48 inches or 120-152 cm

- **HRN-CW03S3**
  - C represents a Custom harness
  - W represents a Harness with exposed wires
  - 03 represents 3 pins / wires
  - S represents a Straight harness
  - 3 represents a length in the range of 24-36 inches or 60-90 cm
# Harness Naming — Table of Definitions

The following table will help you identify and understand your harnesses.

<table>
<thead>
<tr>
<th>Category</th>
<th>Family</th>
<th>Connections</th>
<th>Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Defined broad category of harnesses (Deutsch, OBDII, European, custom, etc.)</td>
<td>Defines family of harnesses which can be common, manufacturer specific, proprietary, etc.</td>
<td>Number of pins used or specific connections connecting up to an asset</td>
<td>Harness Type (i.e. straight, split, etc.)</td>
<td>Length of harness between the vehicle connector and GO device</td>
</tr>
<tr>
<td>Code</td>
<td>Definition</td>
<td>Code</td>
<td>Definition</td>
<td>Code</td>
</tr>
<tr>
<td>A</td>
<td>Auxiliary connector</td>
<td>A</td>
<td>DAF specific connector</td>
<td>03</td>
</tr>
<tr>
<td>B</td>
<td>ODB-type connectors</td>
<td>C</td>
<td>Caterpillar specific connector</td>
<td>06</td>
</tr>
<tr>
<td>C</td>
<td>Custom harness</td>
<td>D</td>
<td>Delphi specific connector</td>
<td>09</td>
</tr>
<tr>
<td>D</td>
<td>Deutsch connectors</td>
<td>E</td>
<td>Mercedes connector and Volvo/Mack Truck specific connectors</td>
<td>12</td>
</tr>
<tr>
<td>E</td>
<td>European Imported Heavy Goods vehicle style connectors</td>
<td>F</td>
<td>Mercedes &amp; Citroen, Peugeot, Renault, Fiat specific connectors</td>
<td>14</td>
</tr>
<tr>
<td>U</td>
<td>Dual protocol, extension harness</td>
<td>G</td>
<td>BMW &amp; Volkswagen, Audi, Seat, Skoda specific connectors</td>
<td>16</td>
</tr>
<tr>
<td>M</td>
<td>Multiple connectors</td>
<td>21</td>
<td>21 pins/wires</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>Sprinter PSM connectors</td>
<td>24</td>
<td>24 pins/wires</td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>Threaded type 9-pin Deutsch connector</td>
<td>DM</td>
<td>Delphi Molex Connectors</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>Standard OBD, Deutsch, or FMS connector</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>Fuzo specific connector</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>Iveco specific connector</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Harness with exposed wires</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Installation Note for All Harnesses

Please note that, where indicated below, a straight harness can be connected to a T-harness or another straight harness if a longer length is required to ease installations. The total harness length must not exceed 2 meters (6.5 feet). This only applies to harnesses that have been released in the latter half of 2014 and identified using the new naming convention as outlined in the MyAdmin Help Guide. In other words, older harnesses cannot be connected together. Each harness below includes an indication as to the maximum length.

Please also note that two T-harnesses CANNOT be connected together regardless of the length. Connecting two T-harnesses or any two harnesses that exceed 2 meters can compromise the integrity of the data and potentially cause issues with the vehicle’s ECU.
OBD Harnesses

**HRN-BS16S4**

**MyAdmin Details**

**Description:** OBDII Extension cable for GO6 and GO7. Replaces HRN-INSTALLPACKV2.

**Further Information**

**Replaced:** HRN-INSTALLPACKV2

**Length:** 100cm / 39 inches

**Purpose:** Used to extend the location of the GO device. Required on vehicles where the ALDL (OBD vehicle connection) is located in an area that could cause the GO device to impede the driver. Also required for vehicles where the recess of the ALDL location prevents the GO device from connecting properly.

**Max length of connected cables:** 2 meters / 6.5 feet

**GO Devices supported:** GO5, GO6, GO7

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**HRN-BS16S5**

**MyAdmin Details**

**Description:** OBDII Extension harness for GO6 and GO7 — 1.5 meters in length.

**Further Information**

**Length:** 150cm / 59 inches

**Purpose:** Used to extend the location of the GO device. Required on vehicles where the ALDL (OBD vehicle connection) is located in an area that could cause the GO device to impede the driver. Also required for vehicles where the recess of the ALDL location prevents the GO device from connecting properly. 50cm longer than HRN-BS16S4 allowing for more options.

**Max length of connected cables:** 2 meters / 6.5 feet

**GO Devices supported:** GO5, GO6, GO7
**HRN-BS16T2**

**MyAdmin Details**

**Description:** OBDII harness for GO6 and GO7. Replaces HRN-EZT.

**Further Information**

**Replaced:** HRN-EZT

**Length:** 50cm / 20 inches

**Purpose:** To move the GO device under the dash and out of sight while still leaving the OBD connector exposed.

**Max length of connected cables:** 2 meters / 6.5 feet

**GO Devices supported:** GO5, GO6, GO7

**HRN-BS16T2 Installation Note**

We have had reports that HRN-BS16T2 has trouble fitting into some vehicle’s OBD ports — specifically the Ford Transit. While we are developing another harness to rectify the issue in the long term, the BS16T2 can be reworked in the field by the installer to solve the issue. Please see the [2015 Ford Transit Harness Modifications](#) hardware forum post for instructions.

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**HRN-BE16T2**

**MyAdmin Details**

**Description:** OBDII harness for GO6 and GO7. Mercedes specific connector. Commonly used for Sprinters for NA and EU — NOT connecting to a PSM — and Volvo and Mack NA Trucks (2014 and 2015 MY).

**Further Information**

**Length:** 50cm / 20 inches

**Purpose:** With a Mercedes specific OBD connector, this T-harness connects up to Mercedes Sprinters commonly found in Global markets. It is NOT used to connect to a PSM in the vehicle. It is also used to connect to North American Volvo and Mack Trucks (2014 and 2015 MY). Allows the OBD connector to remain exposed with the GO device installed under the dash and out of sight.

**Max length of connected cables:** 2 meters / 6.5 feet

**GO Devices supported:** GO6, GO7
**HRN-BF16T2**

*MyAdmin Details*

**Description:** OBDII Extension cable for GO6 and GO7. Primarily for EU markets. Special connectors for Mercedes Benz and also Citroen, Peugeot, Renault, Dacia, FIAT, Alfa Romeo and certain Iveco vehicles.

**Further Information**

**Length:** 50cm / 20 inches

**Purpose:** With vehicle-specific OBD connectors, this T-harness connects up to European-manufactured vehicles found in Global markets. It is NOT used to connect to a PSM in the vehicle. Allows the OBD connector to remain exposed with the GO device installed under the dash and out of sight.

**Max length of connected cables:** 2 meters / 6.5 feet

**GO Devices supported:** GO6, GO7

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**HRN-BG16T2**

*MyAdmin Details*

**Description:** OBDII Extension cable for GO6 and GO7. Primarily for EU markets. Special connectors for VW and Audi Group (VAG) vehicles, and also for certain BMW vehicles.

**Further Information**

**Length:** 50cm / 20 inches

**Purpose:** With vehicle-specific OBD connectors, this T harness connects up to European-manufactured vehicles found in Global markets including Audi, Seat, Skoda, Volkswagen and certain BMW models.

Allows the OBD connector to remain exposed with the GO device installed under the dash and out of sight.

**Max length of connected cables:** 2 meters / 6.5 feet

**GO Devices supported:** GO6, GO7
**HRN-BU16Y5**

**MyAdmin Details**

**Description:** OBDII harness for GO6 and GO7. Special vehicle connector to receive engine data from Mitsubishi Fuso (medium duty) vehicles.

**Further Information**

**Replaced:** HRN-EZFUSO

**Length:** 130cm / 51 inches

**Purpose:** Used specifically for Mitsubishi Fuso (medium duty) vehicles to allow capture of VIN and odometer. Requires connection to Fuso connector in addition to standard OBD port.

**Max length of connected cables:** 2 meters / 6.5 feet

**GO Devices supported:** GO6, GO7

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**HRN-GMLS**

**MyAdmin Details**

**Description:** Harness for certain GM vehicles (for additional PID support/CAN low speed)

**Further Information**

**Moving to Name:** N/A

**Length:** 15cm / 6 inches in length

**Purpose:** Used for seatbelt data detection on some newer GM vehicles. Only needed on the GO5/GO6. Not all Chevrolet vehicles will need a GMLS harness.

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**The following vehicles do not need the GMLS harness:**

- Chevrolet Colorado – Any year
- Chevrolet Trailblazer – Any year
- Chevrolet Uplander – Any year
- GMC Canyon – Any year
- GMC Envoy – Any year
The following vehicles will need the GMLS harness when used with GO6:

- 2007 Chevrolet Silverado – All models other than “Classic”
- 2008 and newer Chevrolet Silverado
- 2008 and newer Chevrolet Express – G1500, G2500, G3500
- 2006 and newer Chevrolet HHR
- 2006 and newer Chevrolet Impala
- 2005 and newer Chevrolet Malibu
- 2007 and newer Chevrolet Suburban
- 2007 and newer Chevrolet Tahoe
- 2009 and newer Chevrolet Traverse
- 2007 and newer Chevrolet Avalanche
- 2009 and newer Chevrolet Aveo
- 2005 and newer Chevrolet Cobalt
- 2011 and newer Chevrolet Cruze
- 2007 and newer Chevrolet Equinox
- 2007 and newer Chevrolet Suburban
- 2011 and newer Chevrolet Volt
- 2007 and newer GMC Volt
- 2008 and newer GMC Savana
- 2007 GMC Sierra – All models other than “Classic”
- 2008 and newer GMC Sierra – All trim levels
- 2010 and newer GMC Terrain
- 2007 and newer GMC Yukon
- Cadillac CTS

Max length of connected cables: 1 meter / 3.3 feet

GO Devices supported: GO5, GO6 ONLY. Not required or supported with the GO7.
Deutsch Connector Harnesses

**HRN-DR09T2**

**MyAdmin Details**

**Description**: 9-pin heavy duty T-Harness for installations where the Deutsch connector needs to remain available for other applications and is a THREADED dash mount style. Replaces HRN-CD9TBHD.

**Further Information**

**Replaced**: HRN-CD9TBHD

**Length**: 60cm / 24 inches

**Purpose**: To move the GO device under the dash and out of sight while still leaving the Deutsch connector exposed. This harness is different from a standard 9-pin Deutsch connector harness because it uses a threaded connector. This is becoming more common across the heavy duty market. Vehicles that are known to require this harness are:

- 2008 and newer Peterbilt trucks
- 2013 and newer Kenworth trucks
- 2013 and newer Freightliner (Large)

Vehicles that are known not to require this harness are:

- Mack
- Internationals
- Lighter Freightliners

**Max length of connected cables**: 2 meters / 6.5 feet

**GO Devices supported**: GO5, GO6 and GO7
HRN-DS09S4
MyAdmin Details
Description: 9-pin straight harness for North American heavy duty Deutsch connector installations. Replaces HRN-C9HD.

Further Information
Replaced: HRN-C9HD
Length: 100cm / 39 inches
Purpose: Straight harness used to move the GO device out of the way of the driver
Max length of connected cables: 2 meters / 6.5 feet
GO Devices supported: GO5, GO6 and GO7

HRN-DS09T2
MyAdmin Details
Description: 9-pin heavy duty T-Harness for installations where the Deutsch connector needs to remain available for other applications.

Further Information
Replaced: HRN-CD9THD
Length: 60cm / 24 inches
Purpose: To move the GO device under the dash and out of sight while still leaving the Deutsch connector exposed. This harness has a standard 9-pin Deutsch connector.
Max length of connected cables: 2 meters / 6.5 feet
GO Devices supported: GO5, GO6 and GO7
HRN-DS06S4
MyAdmin Details
Description: 6-pin straight harness for North American heavy duty Deutsch connector installations. Replaces HRN-D6HD.

Further Information
Replaced: HRN-D6HD
Length: 100cm / 39 inches
Purpose: Straight harness used to move the GO device out of the way of the driver. This harness has a standard 6-pin Deutsch connector and does NOT leave the Deutsch connector exposed.
Max length of connected cables: 2 meters / 6.5 feet
GO Devices supported: GO5, GO6, GO7

HRN-DS06T2
MyAdmin Details
Description: 6-pin heavy duty T-Harness for installations where the Deutsch connector needs to remain available for other applications. Replaces HRN-D6THD.

Further Information
Replaced: HRN-D6THD
Length: 60cm / 24 inches
Purpose: To move the GO device under the dash and out of sight while still leaving the Deutsch connector exposed. This harness has a standard 6-pin Deutsch connector.
What Changed: The harness is now 60cm in length (24 inches) allowing the GO device to be installed without the need for an Install pack.
Max length of connected cables: 2 meters / 6.5 feet
GO Devices supported: GO5, GO6, GO7
HRN-DC09T2
MyAdmin Details

Description: Special harness for CAT off-road vehicles. Verify vehicle does not use a standard 9-pin connector. GO4 requires an HRN-EZ harness. Replaces HRN-TCATHD.

Further Information

Replaced: HRN-TCATHD
Length: 60cm / 12 inches in length
Purpose: To move the GO device under the dash and out of sight while still leaving the Deutsch connector exposed.
Max length of connected cables: 1 meter / 3.3 feet
GO Devices supported: GO6, GO7
**Custom Harnesses**

**HRN-CM24Y1**

**MyAdmin Details**

**Description:** GO6 and GO7 harness for custom installs. Molex connectors for 2 OBD and one J1939 connection points.

**Further Information**

**Replaced:** HRN-INTCPDUAL

**Length:** 20cm

**Purpose:** For custom installs where multiple connection points are required to access engine data and engine protocols. The harness consists of an ALDL connector one end for the GO device, a white 6-pin Molex connector for one OBD connection, a black 12-pin Molex connector for a second OBD connection, and a second 6-pin Molex connector for a J1939 connection.

**Max length of connected cables:** 2 meters / 6.5 feet

**GO Devices supported:** GO6, GO7

**Install Instructions:** Available on request

**HRN-UP21Y2**

**MyAdmin Details**

**Description:** PSM module connection for Mercedes Sprinters for Global markets. Requires HRN-CM24Y1.

**Further Information**

**Replaced:** HRN-SPRPSM

**Length:** 20cm

**Purpose:** Used specifically for PSM module connection for Mercedes Sprinters for global markets in conjunction with HRN-CM24Y1. Custom install instructions are available. For instructions, contact Geotab Support or your Account Manager.

**Max length of connected cables:** 2 meters / 6.5 feet

**GO Devices supported:** GO6, GO7
Install Instructions: Available on request

**HRN-CW03S3**

**MyAdmin Details**

**Description:** 3-wire harness for GO7 - PWR, GND, IGN. Replaces HRN-2WCP for GO6 which cannot take advantage of the IGN wire.

**Further Information**

*Replaced:* HRN-3WCP

*Length:* 90cm / 36 inches in length

*Purpose:* Used for installation in vehicles or assets where no engine data is available

*Max length of connected cables:* 2 meters / 6.5 feet

*GO Devices supported:* GO6, GO7

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**SPR-RELAYKIT**

**MyAdmin Details**

**Description:** Driver ID Relay kit for GO4v3 and GO6 and GO7. Requires professional installation by a licensed automotive electrician/mechanic.

**Further Information**

*Replaced:* HRN-RELAYKIT

*Length:* 60cm / 24 inches

*Purpose:* Can be used standalone on GO4V3 or in conjunction with the NFC driver ID on GO6/7. Driver ID keys drive a relay. Requires professional installation by a licensed automotive electrician/mechanic.

*GO Devices supported:* GO4v3, GO6, and GO7

**Installation Instructions:** Please refer to the [SPR-RELAYKIT Installation] instructions.
European Heavy Goods Vehicle Harnesses

**HRN-ES12S1**

**MyAdmin Details**

**Description:** OBDII harness for GO6 and GO7. Connects to the FMS connector primarily for EU heavy duty vehicles.

**Further Information**

**Replaced:** HRN-FMSSTA

**Length:** 30cm / 12 inches

**Purpose:** Straight harness used to connect directly to the dedicated Telematics port common on EU vehicles.

**Max length of connected cables:** 2 meters / 6.5 feet

**GO Devices supported:** GO6, GO7

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**HRN-EE14S1**

**MyAdmin Details**

**Description:** Mercedes diagnostic connector. Used on older generation medium duty trucks and buses. Replaces HRN-EU14P.

**Further Information**

**Replaced:** HRN-EU14P

**Length:** 30cm / 12 inches

**Purpose:** To move the GO device under the dash. Like all harnesses, it provides power and engine data for specific vehicles that require this type of connector.

**Max length of connected cables:** 1 meter / 3.3 feet

**GO Devices supported:** GO6, GO7
HRN-EA16S1
MyAdmin Details

Description: Diagnostic connector designed for EU markets, primarily for the DAF Euro 3 (up to 2006). Replaces HRN-EU16P.

Further Information
Replaced: HRN-EU16P
Length: 30cm / 12 inches
Purpose: To move the GO device under the dash. Like all harnesses, it provides power and engine data for specific vehicles that require this type of connector.

Max length of connected cables: 1 meter / 3.3 feet
GO Devices supported: GO6, GO7
GO4 Harnesses

**HRN-AUXPRO**

**MyAdmin Details**

**Description:** Recommended for any auxiliary installs that have a potential for high voltage kickback

**Further Information**

**Moving to Name:** EOL  
**Length:** 15cm / 6 inches in length  
**Purpose:** Recommended for any GO4 auxiliary installs that have a potential for high voltage kickback. Known examples are ambulance sirens.  
**Max length of connected cables:** 1 meter / 3.3 feet  
**GO Devices supported:** GO4

**HRN-BUZZER**

**MyAdmin Details**

**Description:** Buzzer for GO4

**Further Information**

**Moving to Name:** EOL  
**Length:** 53cm / 21 inches in length  
**Purpose:** External buzzer for GO4 to be used for driver feedback in the vehicle.  
**GO Devices supported:** GO4

**HRN-EXTGAR10**

**MyAdmin Details**

**Description:** Garmin Add-On harness with relay that powers up the Garmin without additional adapter (no traffic support)

**Further Information**

**Moving to Name:** EOL  
**Length:** 502cm / 198 inches of length  
**Purpose:** To interface a low-powered Garmin PND to a GO4 that does NOT require traffic services  
**GO Devices supported:** GO4
HRN-EXTGARMIN
MyAdmin Details
Description: Garmin Add-On harness with relay that powers up the Garmin without additional adapter (with traffic support)

Further Information
Moving to Name: EOL
Length: 525cm / 207 inches in length
Purpose: To interface a low-powered Garmin PND to a GO4 that DOES require traffic services
GO Devices supported: GO4
Special Order Harnesses

The following harnesses are not available in MyAdmin and only available by special order. Long lead times may exist. Discuss with your Account Manager to determine prices, lead times, and ensure it is the harness you require.

HRN-E1

Not available in MyAdmin

MyAdmin Details

Description: Custom order Third-party device harness. No longer used for Valor implementations.

Further Information

Moving to Name: HRN-BD16S4
Length: 100cm / 40 inches
Purpose: Harness used in custom situations. Please discuss with Geotab Support or your Account Manager if harness is appropriate.
Max length of connected cables: 1 meter / 3.3 feet
GO Devices supported: GO6 and GO7

HRN-E1CP

Not available in MyAdmin

Moving to Name: HRN-BD16S5
Length: 130.5cm / 51.5 inches
Purpose: Uses OEM connector instead of using EZT bracket
Max length of connected cables: 2 meters / 6.5 feet
GO Devices supported: GO6, GO7
HRN-INTCPDEL

Not available in MyAdmin
Moving to Name: HRN-CMDMY3

Length: 80cm

Purpose: Primarily designed for OEM Freightliner walk-in van chassis with Gas engines, 2009 and newer year models that previously were installed with GO4 units. Also requires an HRN-E1.

Includes an ALDL connector on one end to connect the HRN-E1 harness, a 6 pin molex connector for OBD connections.

Max length of connected cables: 2 meters / 6.5 feet

GO Devices supported: GO6, GO7

Install Instructions: Available on request.
Installation Accessories

The following items are often ordered with harnesses to properly secure the GO devices in the vehicle.

**SPR-INSTALLBAG**

**MyAdmin Details**

**Description:** Mounting bracket and material for GO6/7. Includes 2 zip seals, 2 screws, and double-sided tape for the bracket for installation purposes.

**Further Information**

**Purpose:** Provides installers with mounting material to ease GO7 installs

**GO Devices supported:** GO6, GO7

**Installing the mounting bracket:** Use the screws or double sided tape to affix the bracket to the vehicle. Place the GO device in the bracket as shown in the image.

**SPR-NFCBRACKET**

**MyAdmin Details**

**Description:** Mounting bracket and holder for IOX-NFCREADER. Includes 2 screws and double-sided tape for the bracket for installation purposes.

**Further Information**

**Purpose:** Provides installers with a replacement mounting bracket for the NFC Reader

**Installing the mounting bracket:** Use the screws or double sided tape to affix the bracket to the vehicle.
**SPR-BSFBKT**

**MyAdmin Details**

**Description:** Bracket required for 2015 Ford F-150, Ford Fusion and Ford Mondeo vehicles. Will be included in HRN-BS16T2 when available.

**Further Information**

**Purpose:** To support connecting a GO device via the HRN-BS16T2 to certain Ford vehicles.