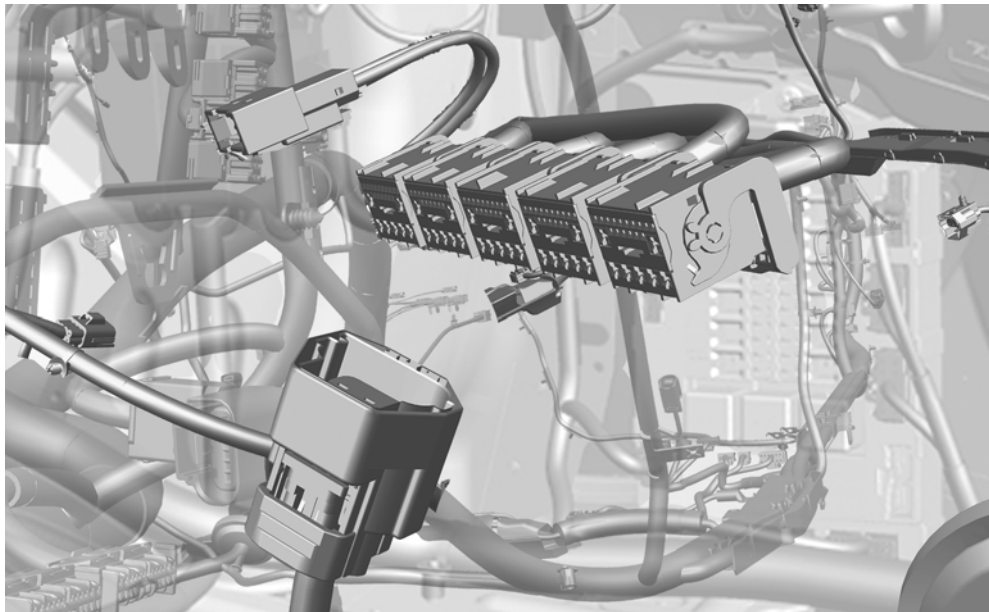




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## Electrical Guide

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# XK

VIN: B44940 >

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JAGUAR CARS LIMITED COVENTRY



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# Electrical Guide

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# XK

VIN: B44940 >

While every effort is made to ensure accuracy, design changes to the vehicle may be made in the period between the completion of this publication and the introduction of vehicles.

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**FIGURES**

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**FIGURES**

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The following abbreviations and acronyms are used throughout this Electrical Guide:

ABS	anti-lock braking system
ASL	automatic speed limiter
AUTO	automatic
AJB	auxiliary junction box
B+	battery voltage
BANK 1	RH cylinder bank
BANK 2	LH cylinder bank
BJB	battery junction box
CAN	controller area network
CJB	central junction box
CKP	crankshaft position
CM	control module
CMP SENSOR / 1	camshaft position sensor / RH bank
CMP SENSOR / 2	camshaft position sensor / LH bank
DAB	digital audio broadcasting
DSC	dynamic stability control
ECM	engine control module
EGR	exhaust gas recirculation
FPDB	front (power distribution box)
FSJB	central junction box
GPS	global positioning system
HID	high intensity discharge
HS CAN	high speed controller area network
IAM	integrated audio module
IBOC	in-band on-channel
IC	instrument cluster
ICE	in-car entertainment
IDM	intrusion detection module
KS	knock sensor
KVM	keyless vehicle module
LF	low frequency
LH	left-hand
LHD	left-hand drive
LIN	local interconnect network
MAF	mass air flow sensor
MAP	manifold absolute pressure
MOST	media oriented systems transport
MS CAN	medium speed controller area network
NA	naturally aspirated
NAS	North American specification
PATS	passive anti-theft system
PWM	pulse width modulated
RBD	ring break diagnostics
RCM	restraints control module
RH	right-hand
RHD	right-hand drive
ROW	rest of world
RSJB	auxiliary junction box
SAI	secondary air injection
SC	supercharged
SDARS	satellite digital audio radio system
TCM	transmission control module
TPS	throttle position sensor
TPMS	tire pressure monitoring system
TV	television
V8	V8 engine
V8NA	V8 normally aspirated engine
V8SC	V8 supercharged engine
VICS	vehicle information control system
+ve	positive
-ve	negative

## **Health and Safety**

Always follow health and safety guidelines, specifically those detailed in the Workshop Manual.

## **Using this publication**

The information provided in this publication is for use only by competent, qualified auto-electricians. Good product knowledge is assumed, as well as the ability to access and use recommended test equipment and other reference material.

## **Test equipment and other reference material**

The information in this publication should be used in conjunction with the recommended test equipment; refer to Workshop Manual. Other reference material includes: Technical Service Bulletins (TSB) and the Workshop Manual.

The Electrical Reference Library (ERL) may also prove useful since it provides detailed connector information.

## **Battery disconnection and reconnection**

It is imperative that any information relating to battery disconnection and reconnection is followed; refer to the appropriate sections in the Workshop Manual.

## **Fault Diagnosis**

Always use the recommended test equipment for correct and reliable fault diagnosis, refer to the Workshop Manual.

## **Harness Repair**

Repairs should only be undertaken for connectors where a Service Repair Kit is available; refer to the appropriate Electrical Reference Library (ERL).

**NOTE:** Fibre Optic circuits cannot be repaired; refer to the Workshop Manual.

## **Engine Harness In-line Connector Designations**

It has been necessary to draw certain wiring diagrams to support and permit the sharing of common electrical harnesses, as a result the in-line connectors between the engine compartment harness and the engine harness do not appear on the same pages. In addition, it should be noted that the connector designations may not match; where this is the case, the matching connector designations are identified at the bottom right-hand side of the drawing, for example PI041 = C11-P. An arrow is used to highlight the connectors that are affected by this convention.

**NOTE:** Engine Junction Box is an alternative description for the Power Distribution Box.

## Connectors, Grounds and Splices

Connectors, grounds and splices are numbered using a five-character format, for example: CA001, CA002, G03BL, FLS25. Pin numbers are designated using only significant digits, therefore CA001 pin 001 is represented as CA001/1.

## Control Module Pins

B+	Battery voltage
C-	CAN negative
C+	CAN positive
D	Data
GND	Ground
GRES	Sensor / signal ground **
IP	Input signal
LIN	Local interconnect network
MOST_RX	MOST receive
MOST_TX	MOST transmit
NEG	Negative
OP	Output signal
P	Power ground
POS	Positive
PWR	Power
SW	Switch
VBATT	Battery voltage
VREF	Sensor / signal supply V *

\* May also indicate Reference Voltage.

\*\* May also indicate Reference Ground or Logic Ground.

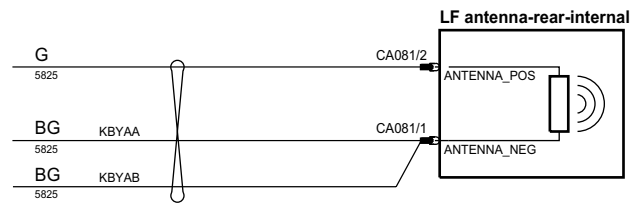
## Wiring Color Codes

N or BN	Brown	O or OG	Orange
B or BK	Black	S or GY	Slate
W or WH	White	L	Light
K or PK	Pink	U or BU	Blue
G or GN	Green	P or VT	Purple
R or RD	Red	OPT	Fiber Optic
Y or YE	Yellow	SCR	Screen Braid

## Wire Lengths

Wire lengths are stated in millimeters and appear directly below the color code for each wire.

## Twisted Wires



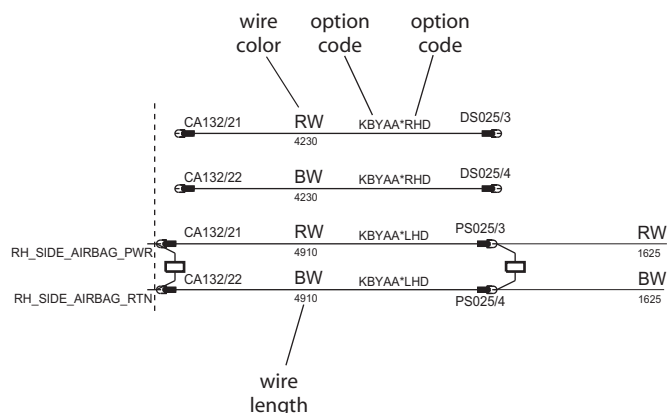
The 'figure-of-eight' symbol indicates that wires are twisted together.

## Resistor Values

The omega symbol often used to represent resistance is not used in this publication.

- Whole-number resistor values below 1000 ohms are suffixed with 'R', for example: 820R.
- Whole-number resistor values above 1000 ohms are suffixed with 'K', for example: 820K.
- Fractional resistors values have 'R' or 'K' inserted at the position of the decimal point, for example: 8R2 represents 8.2 ohms, 1K0 represents 1K ohms.

**Option Codes**



A code identifying an optional wiring arrangement, for example KBYAA, may be allocated to certain wires; refer to the Option Code Table. The asterisk (\*) represents 'and'; the colon (:) represents 'or'; for example:

IEFAB\*RHD:IF9AB\*RHD:IEFAB\*IF9AB\*RHD, represents:  
phone and right-hand drive or voice and right-hand drive or phone and voice and right-hand drive.

**Option Code Table**

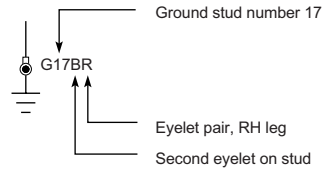
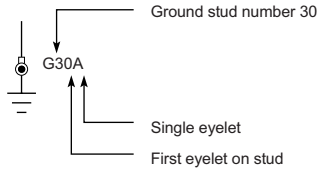
ADRC	adaptive damping
A2EAB	portable audio interface
B3MAB	heated front windshield
BSHA5	foldback mirrors
CBGAG	passive entry
DBL_LOCK	double locking
DMTL	diagnostic monitoring tank leakage
EC_MIRR	electrochromic mirror
EN_AJ	naturally aspirated
EN_AK	supercharged
EN_RX	5.0L naturally aspirated
EN_RY	5.0L supercharged
GCDAD	adjustable pedals
GTBAB	heated steering wheel
GTDAC	adaptive speed control
HIBAH	battery backed sounder
HIBAJ	alarm horn
HKCAA	no navigation
HKCAK	navigation
HNFAB	intrusion sensor
HNGAB	inclination sensor
HNLAB	front parking aid
HTD_SEAT	heated seats
IBYAB	analogue audio broadcast
IBYAH	digital radio
IDAAA	standard audio

IDAAB	premium audio
IEFAA	no phone
IEFAB	phone
IF9AB	voice
J3KAA	without rear view camera
J3KAB	with rear view camera
JBBBB	adaptive front lighting
JEAAB	standard headlamp levelling
JEAAC	adaptive headlamp levelling
KBYAA	coupe
KBYAB	convertible
LHD	left-hand drive
PEDIMP	pedestrian protection system
RDS	radio data system
RHD	right-hand drive
SAI	secondary air injection
SAIMAP	SAI map sensor
SDARS	satellite digital audio radio system
SEAT_12WAY	12 way seat
SEAT_16WAY	16 way seat
SMOG_SNSR	pollution sensor
TPMS	tire pressure monitoring system
TV	television
VICS	vehicle information and communication system

## Grounds

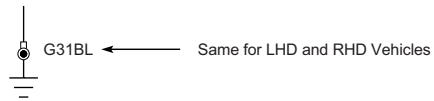
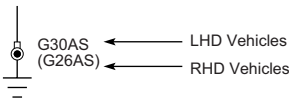
- There may be up to three eyelets on one ground stud.
- A, B and C are used to indicate the position of the eyelet on the stud: A - first (bottom), B - second (middle), C - third (top).
- Two eyelet variations are used: a single eyelet and an eyelet pair. The single eyelet has a single leg, which is identified by an S; the eyelet pair has two legs, identified as L (left) or R (right).

EXAMPLE:



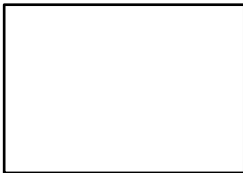
On figures where LHD and RHD circuits are combined and the ground designation differs from LHD to RHD, the RHD ground code is shown in parentheses. If the ground designation is the same for LHD and RHD, only one ground code is used, with no parentheses.

EXAMPLE:



## Component Depictions

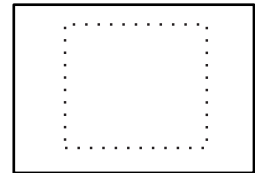
EXAMPLE:



COMPLETE COMPONENTS  
AND CONTROL MODULES



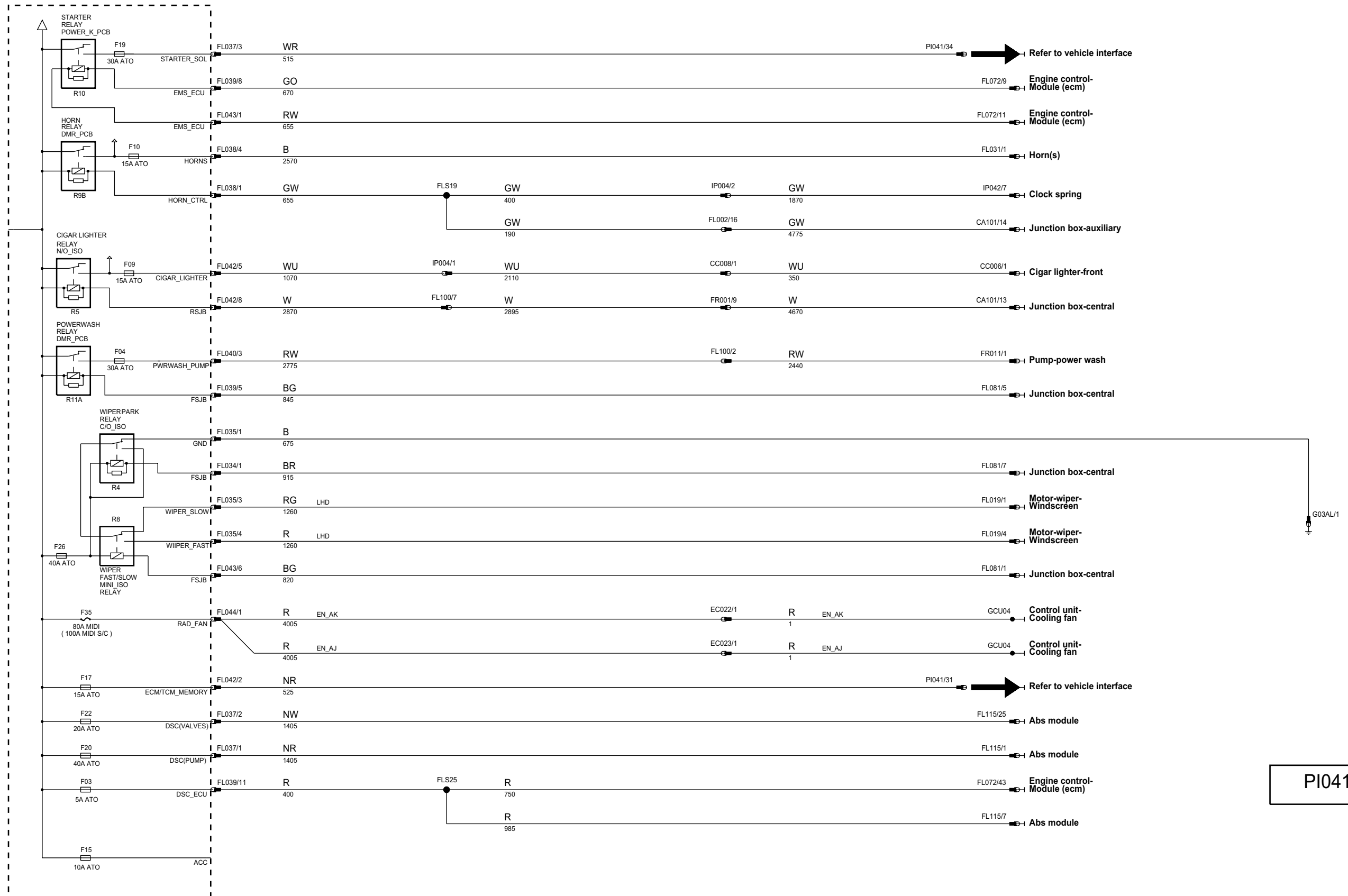
INCOMPLETE COMPONENTS



COMPONENTS WITH  
INTERNAL ELECTRONIC CIRCUIT

phcw83-70012-c-a4

Distribution box-power



PI041 = C11-P

B- Battery Voltage  
P Power Ground

IP Input  
OP Output

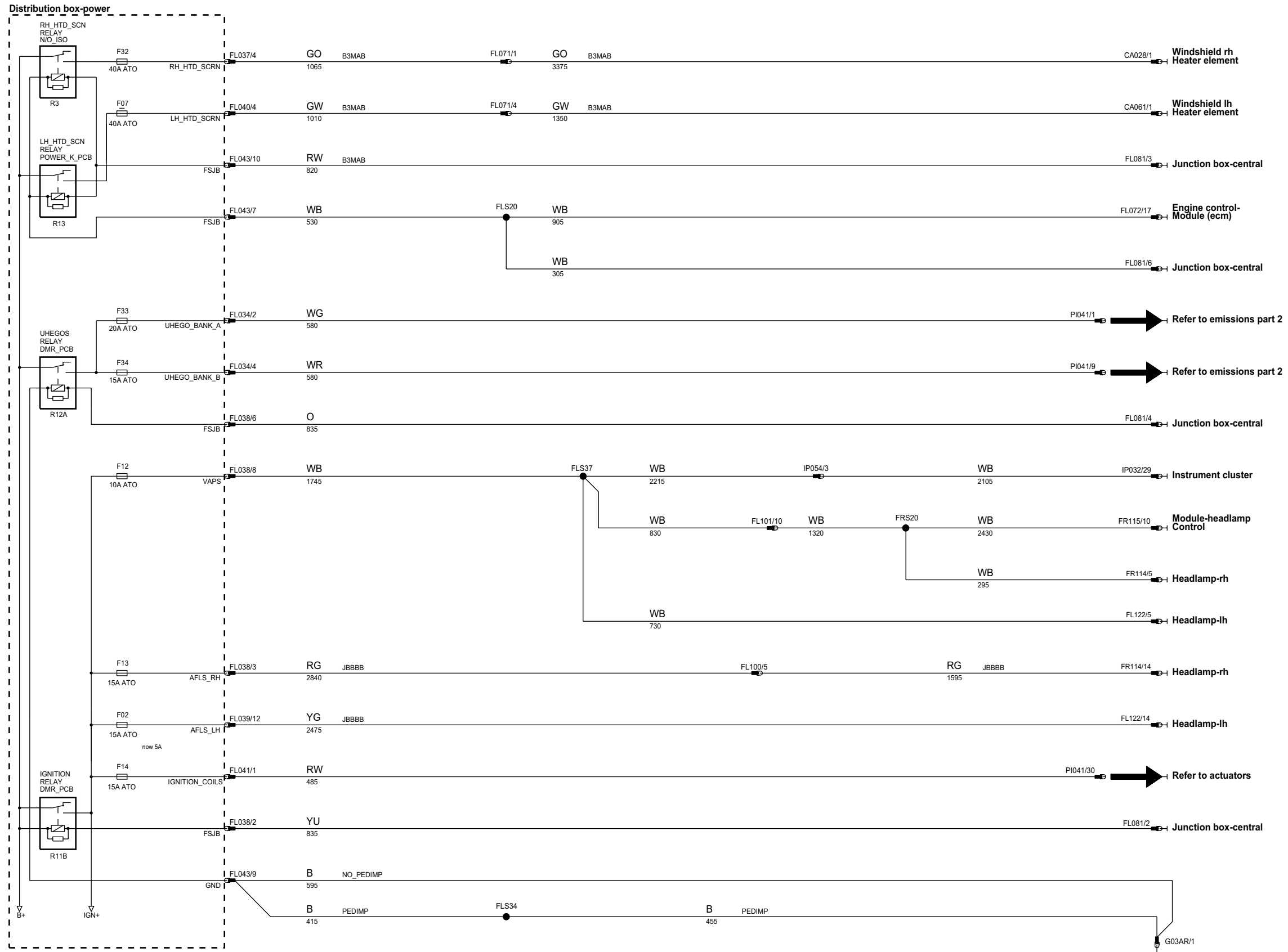
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

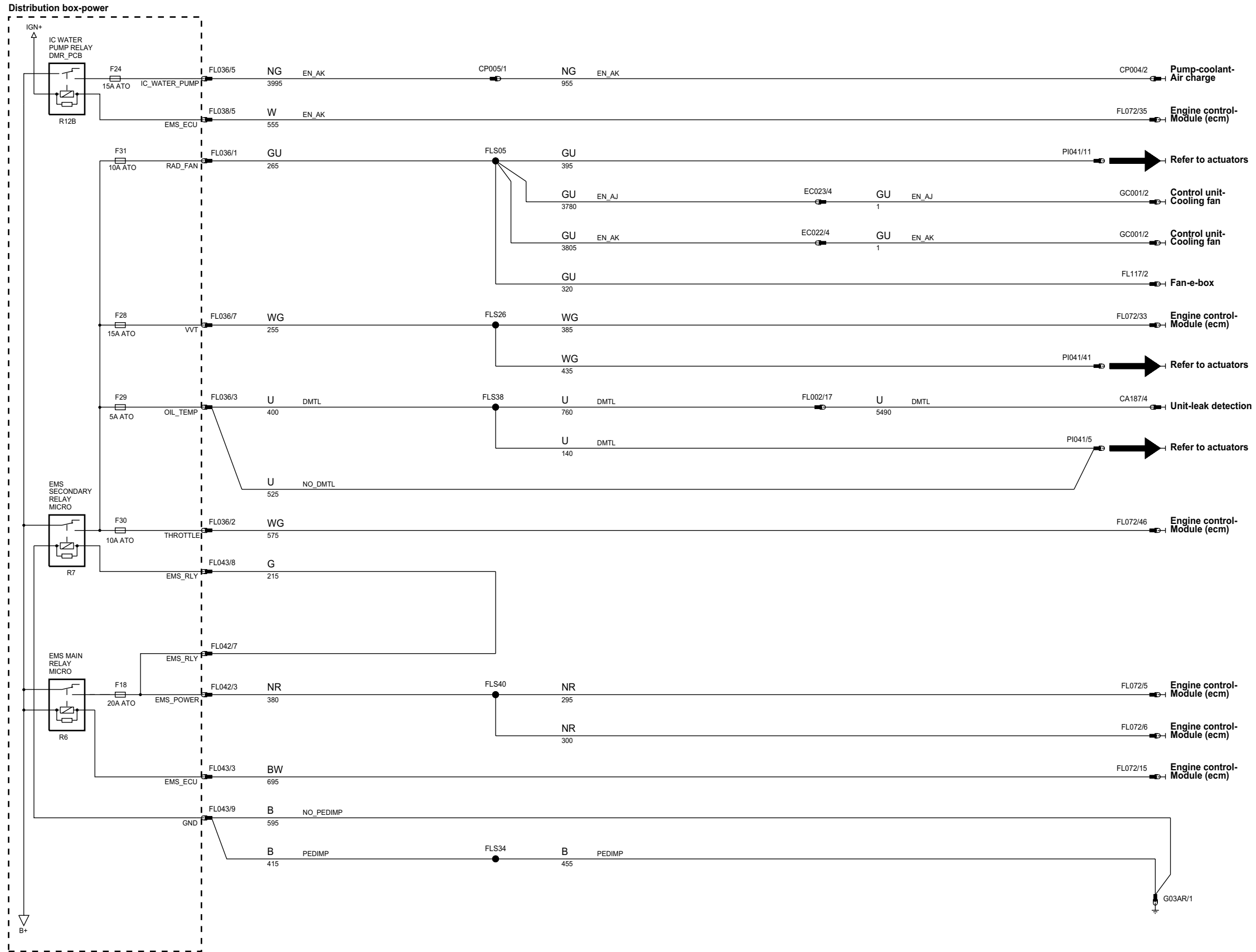
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PI041 = C11-P



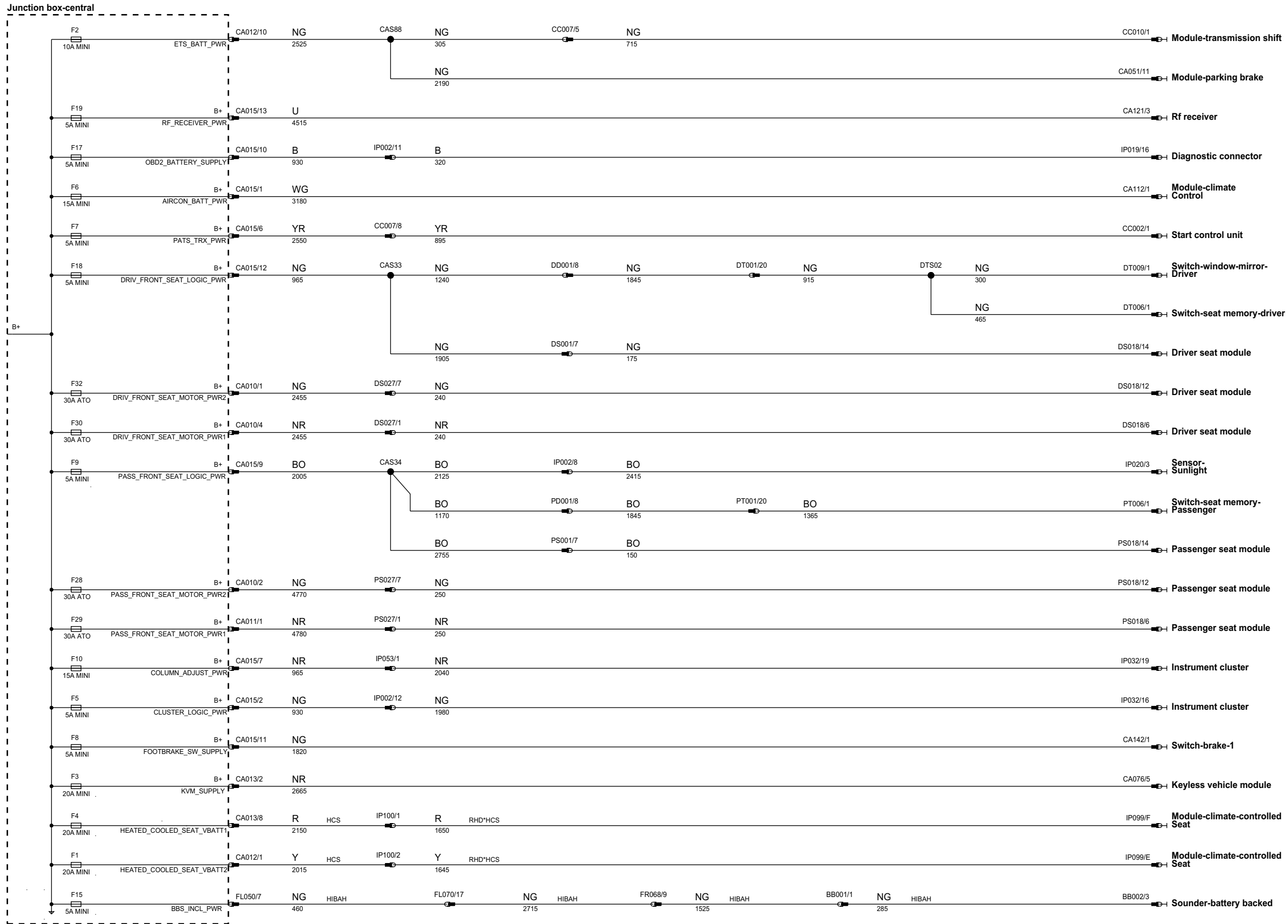
phcw83-70012-m2-e4



PI041 = C11-P

<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

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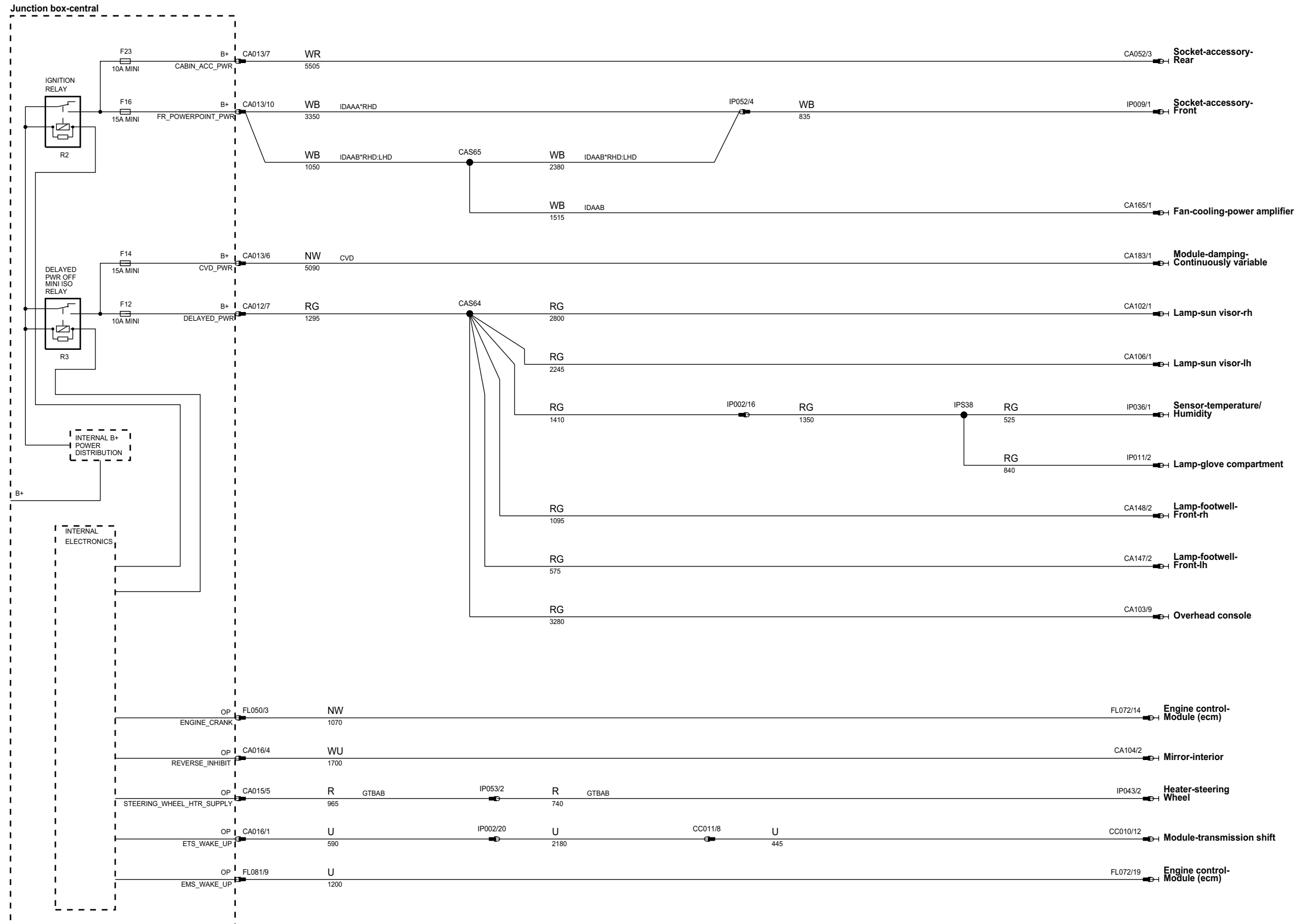
B+ Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70012-e-a4



B+ Battery Voltage  
P Power Ground

IP Input  
OP Output

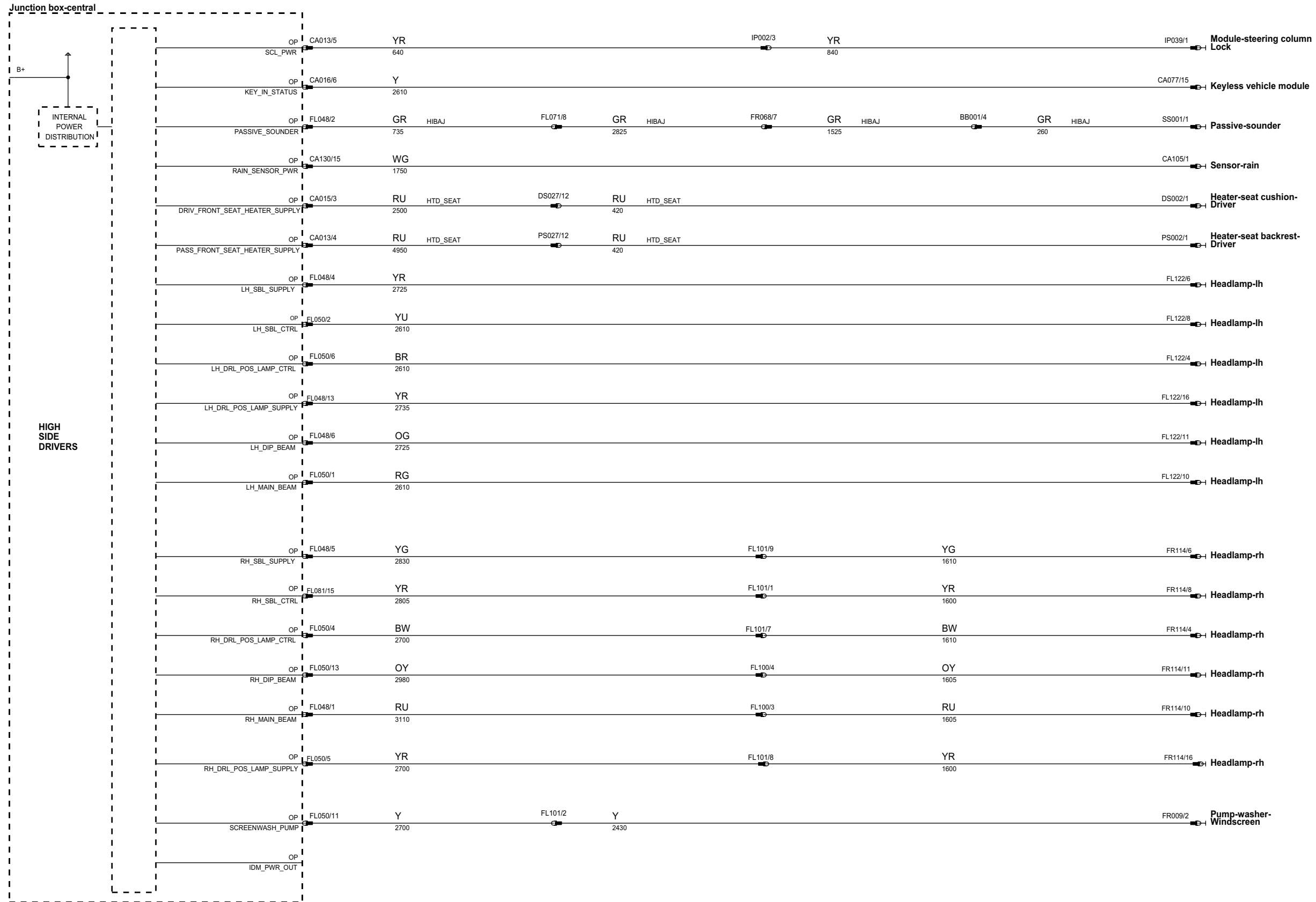
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70012-f-a4



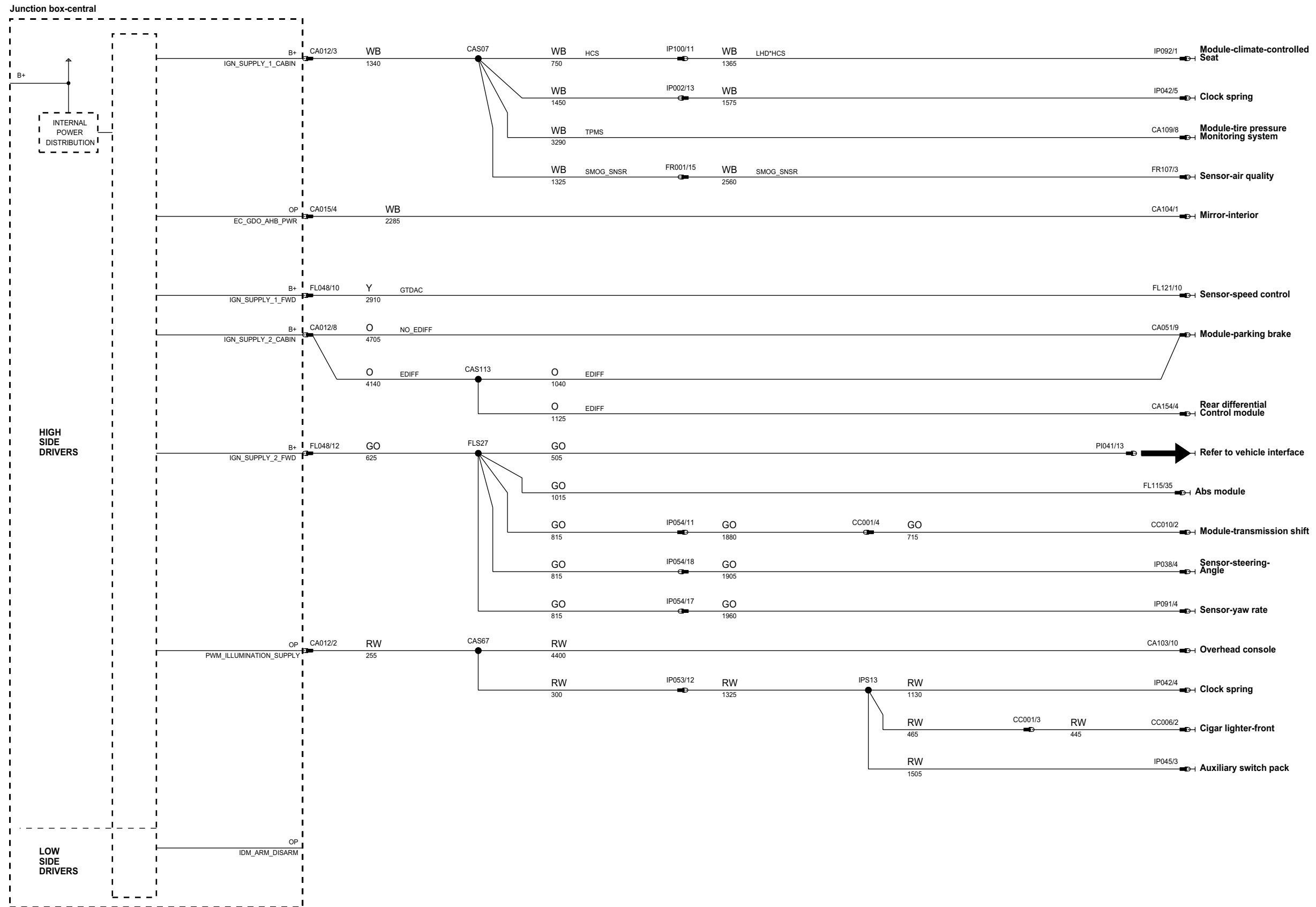
B+ Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70012-4-a4



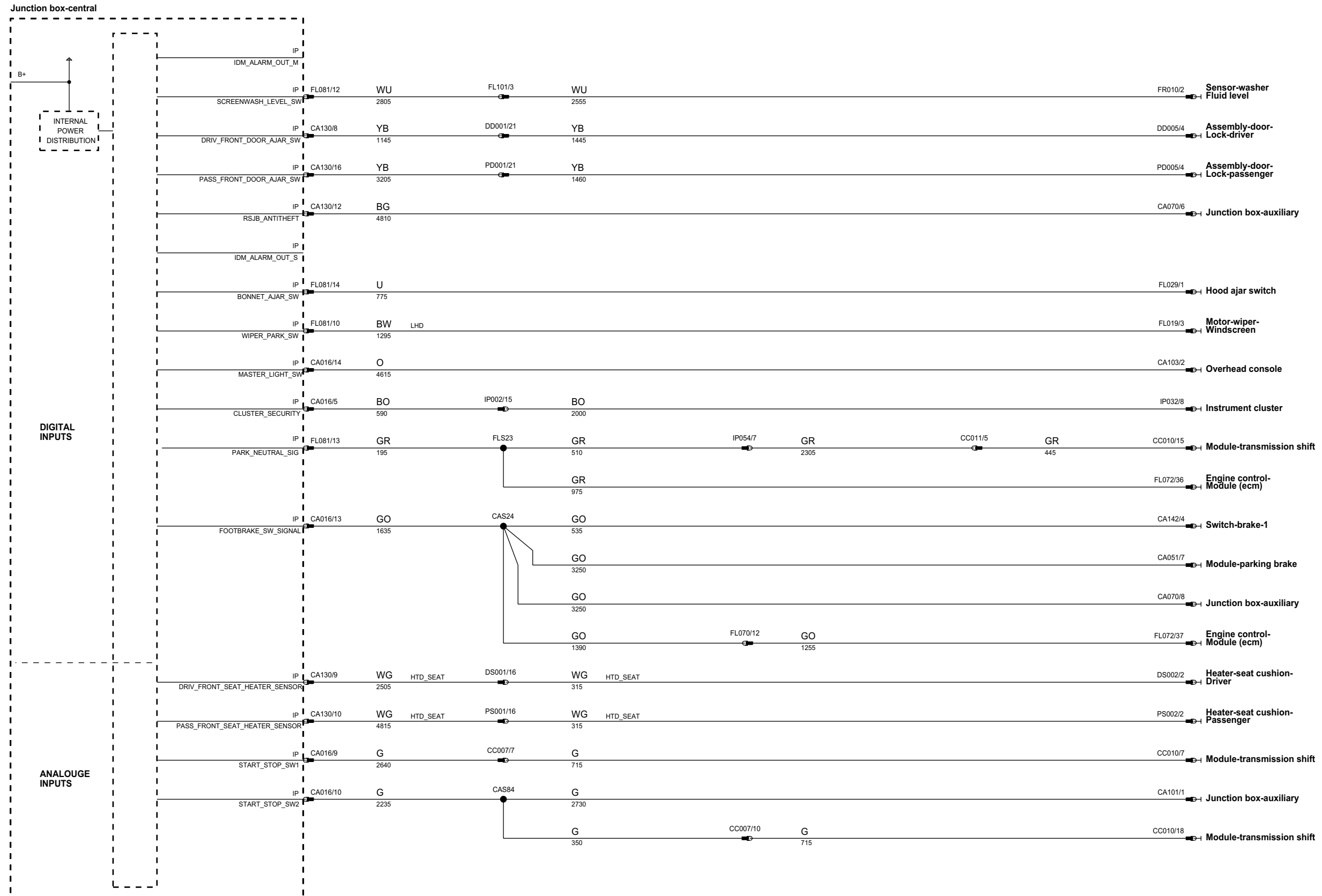
B+ Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

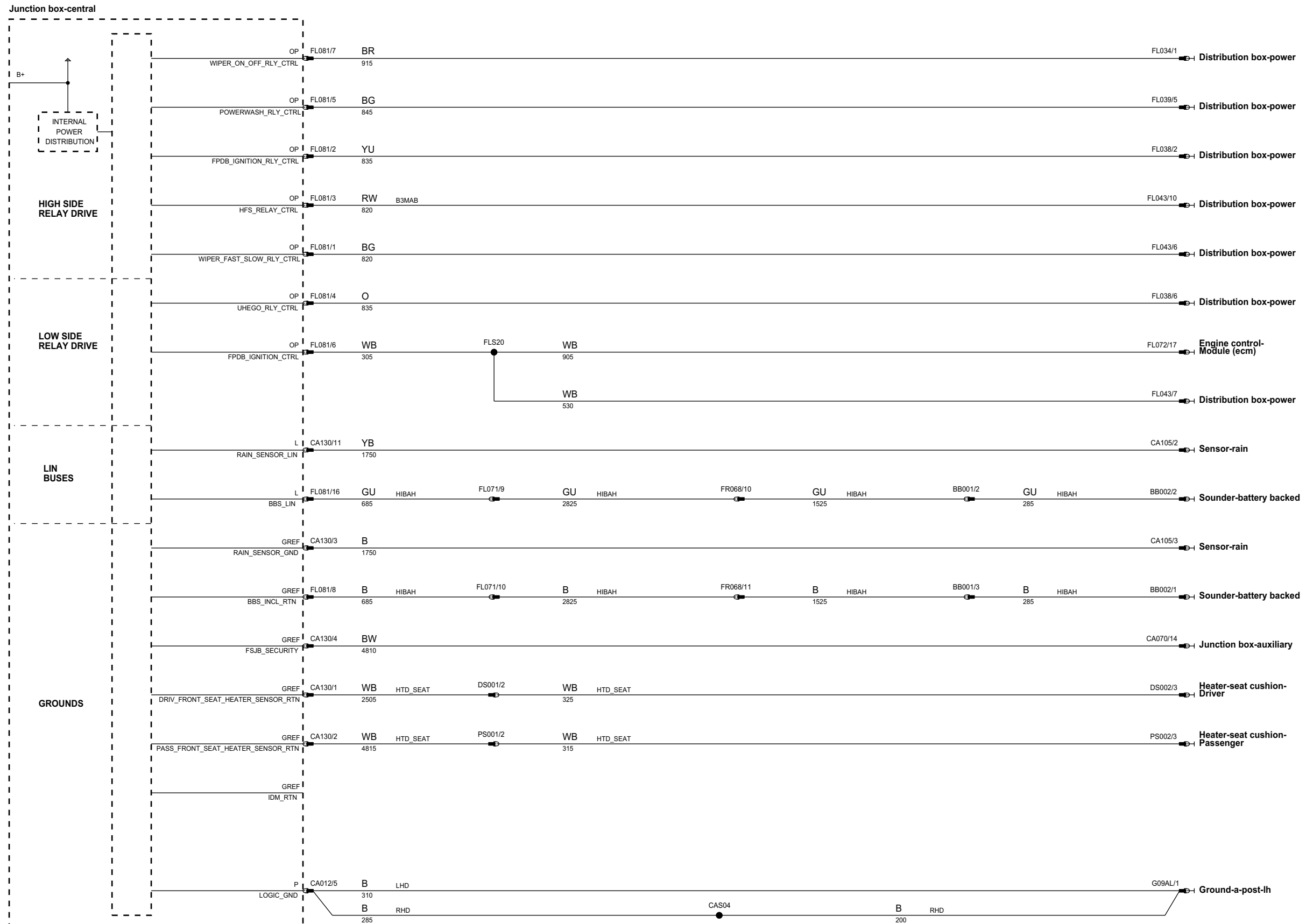
phcw83-70012-u-a4



<b>B+</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

x

phcw83-70012-w-a4



B+ Battery Voltage  
P Power Ground

IP Input  
OP Output

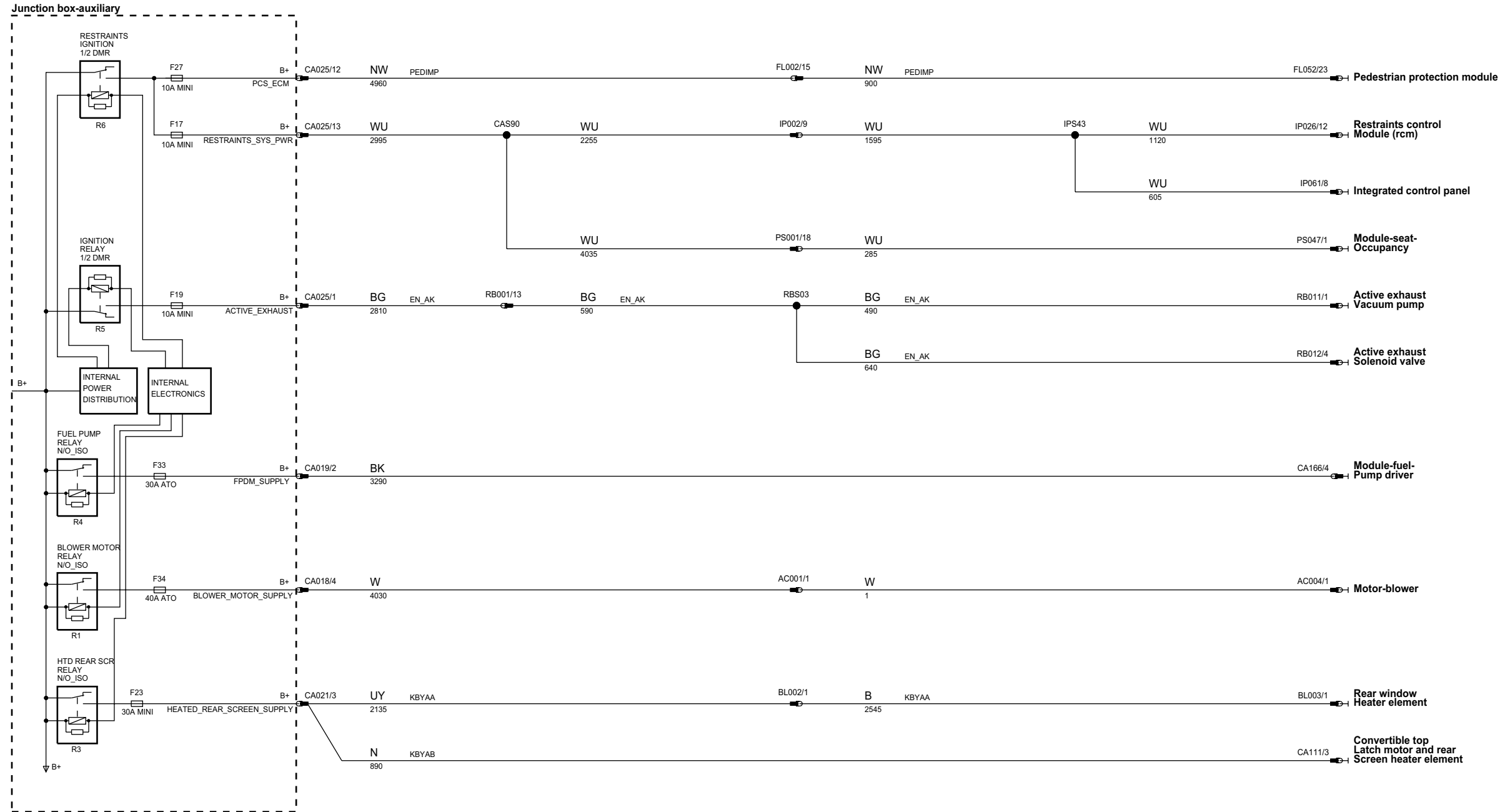
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70012-g-4

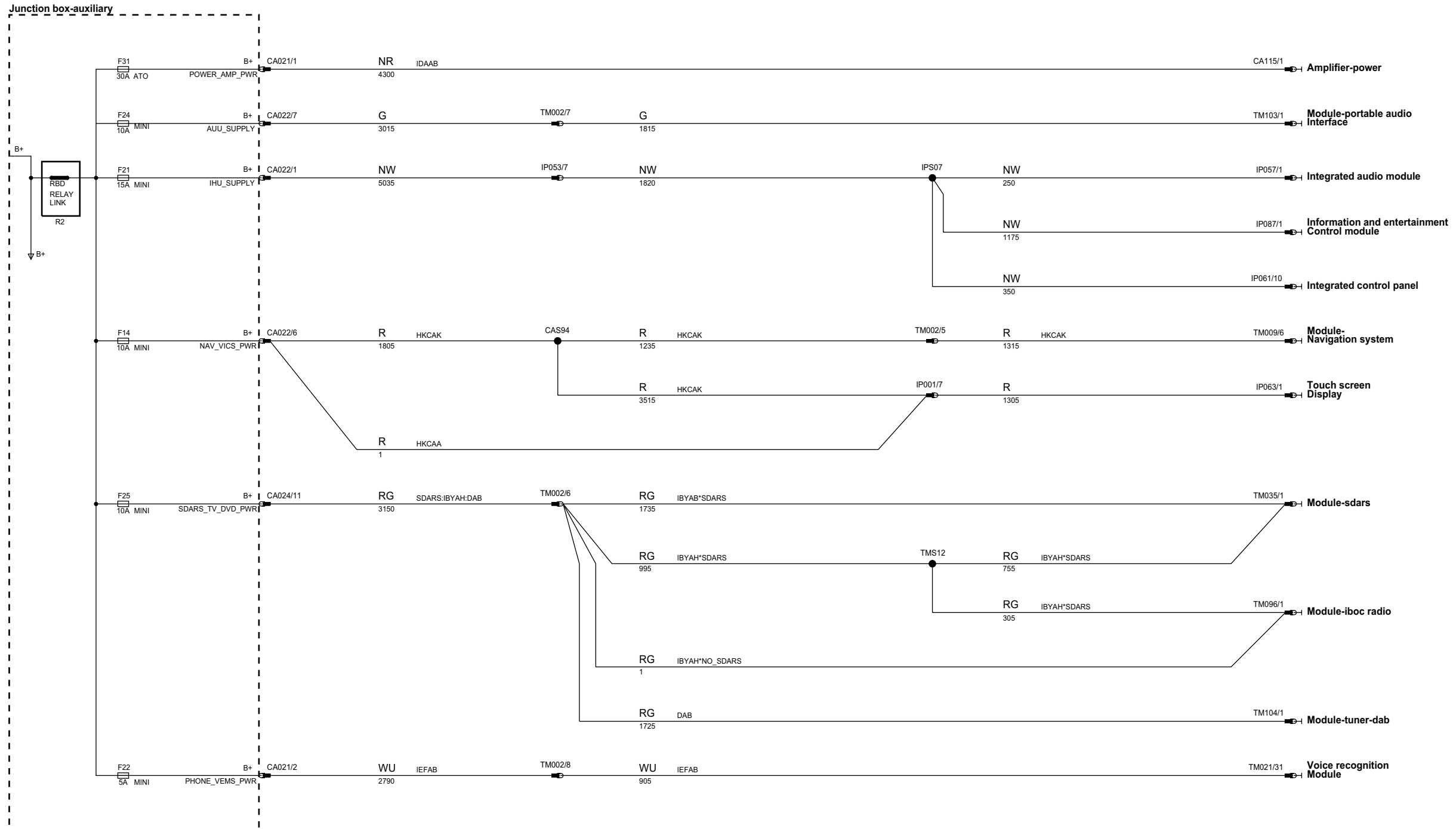


<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

x



phcw83-70012-v-a4



B+ Battery Voltage  
P Power Ground

IP Input  
OP Output

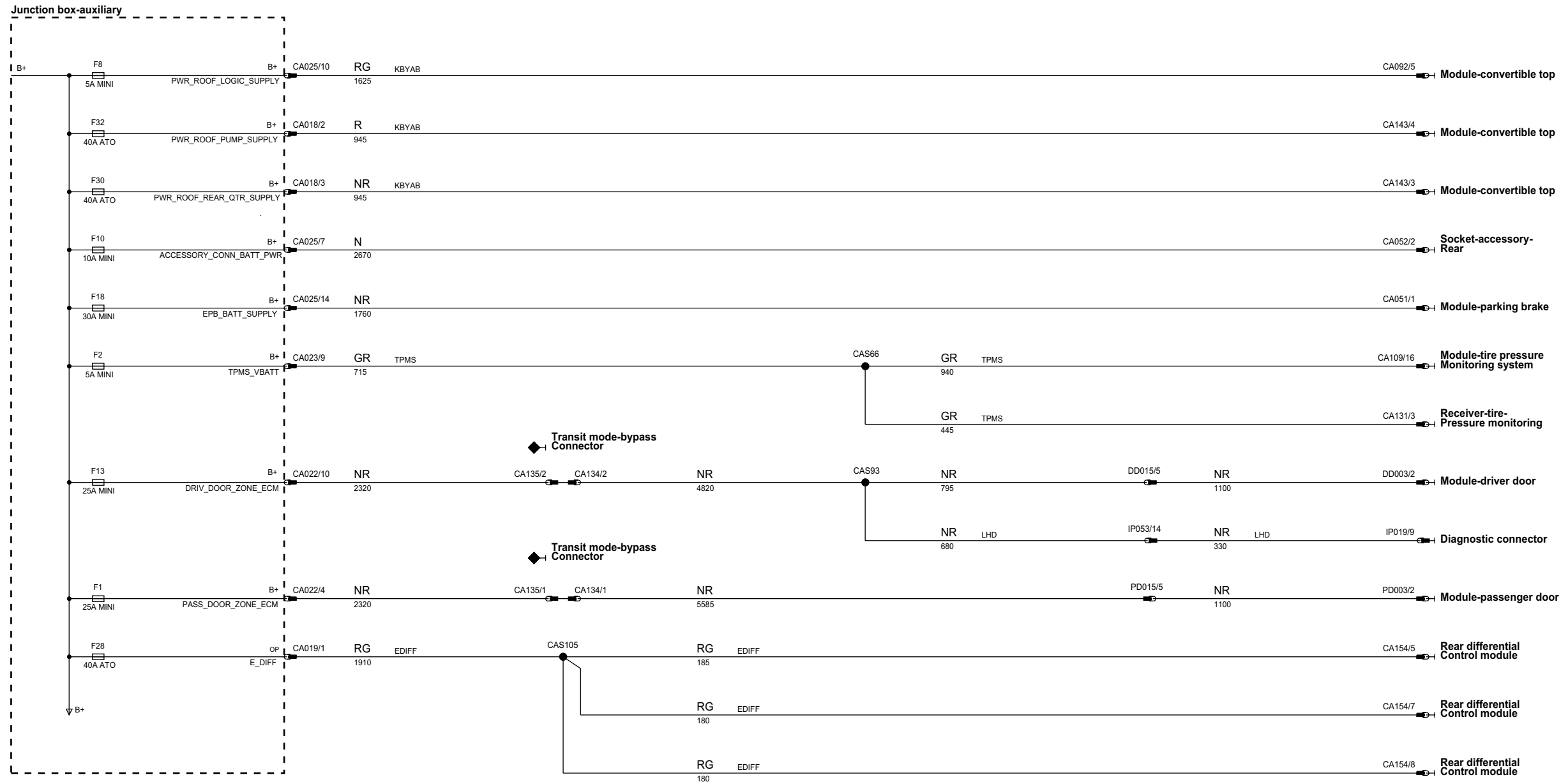
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

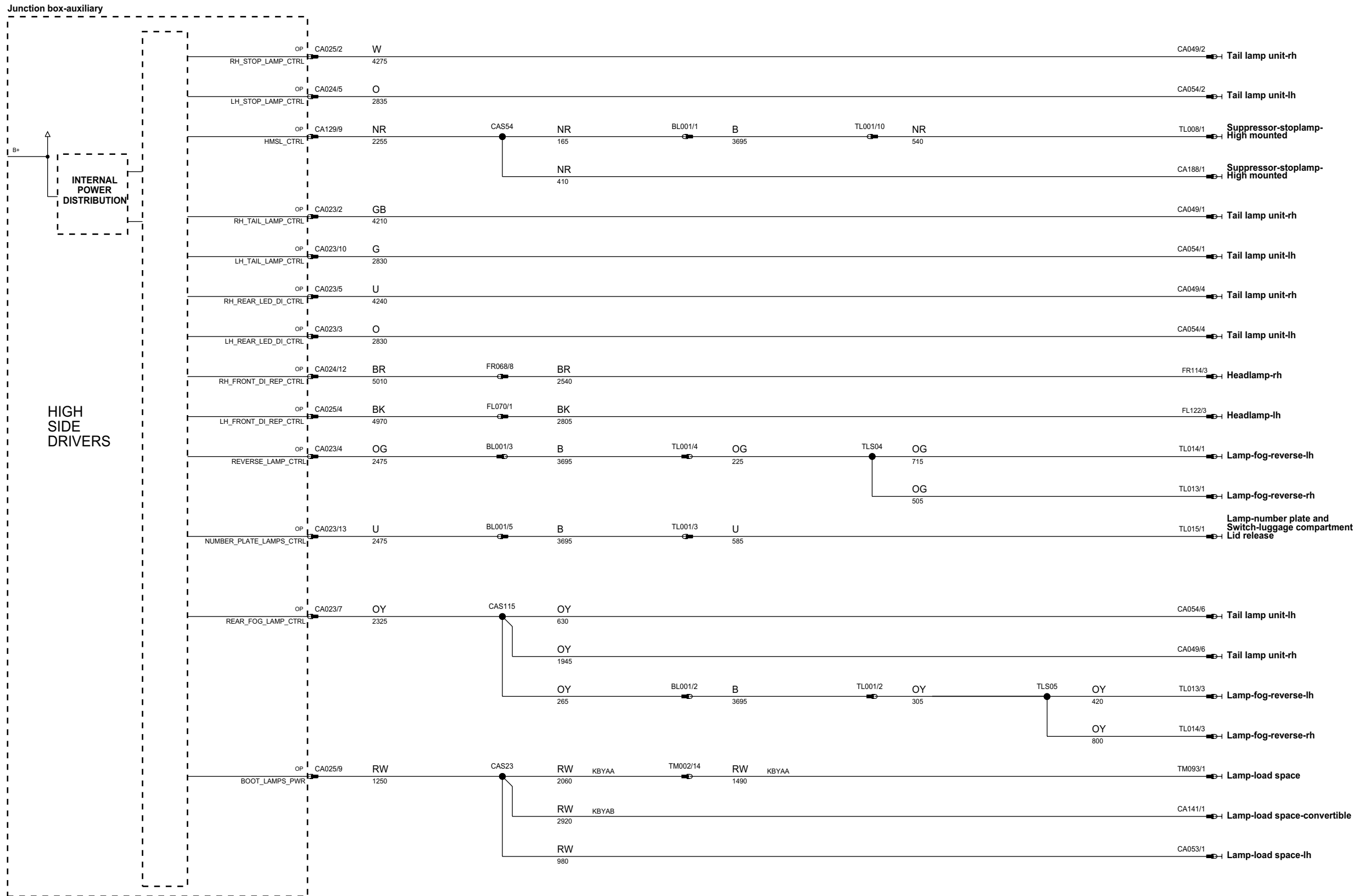
phcw83-70012-b-a4



<b>B+</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

x

phcw83-70012-p-a4



B+ Battery Voltage  
P Power Ground

IP Input  
OP Output

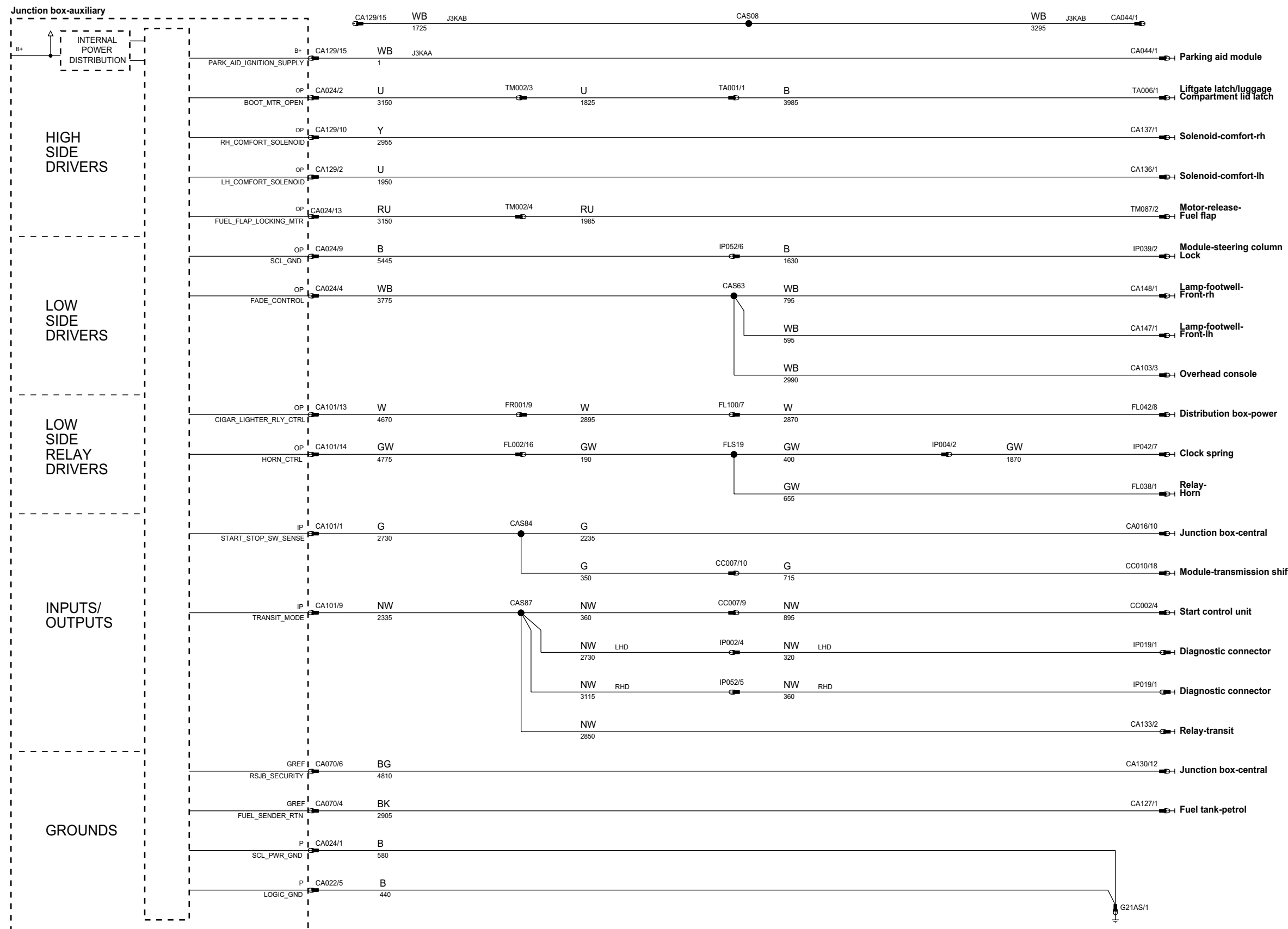
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

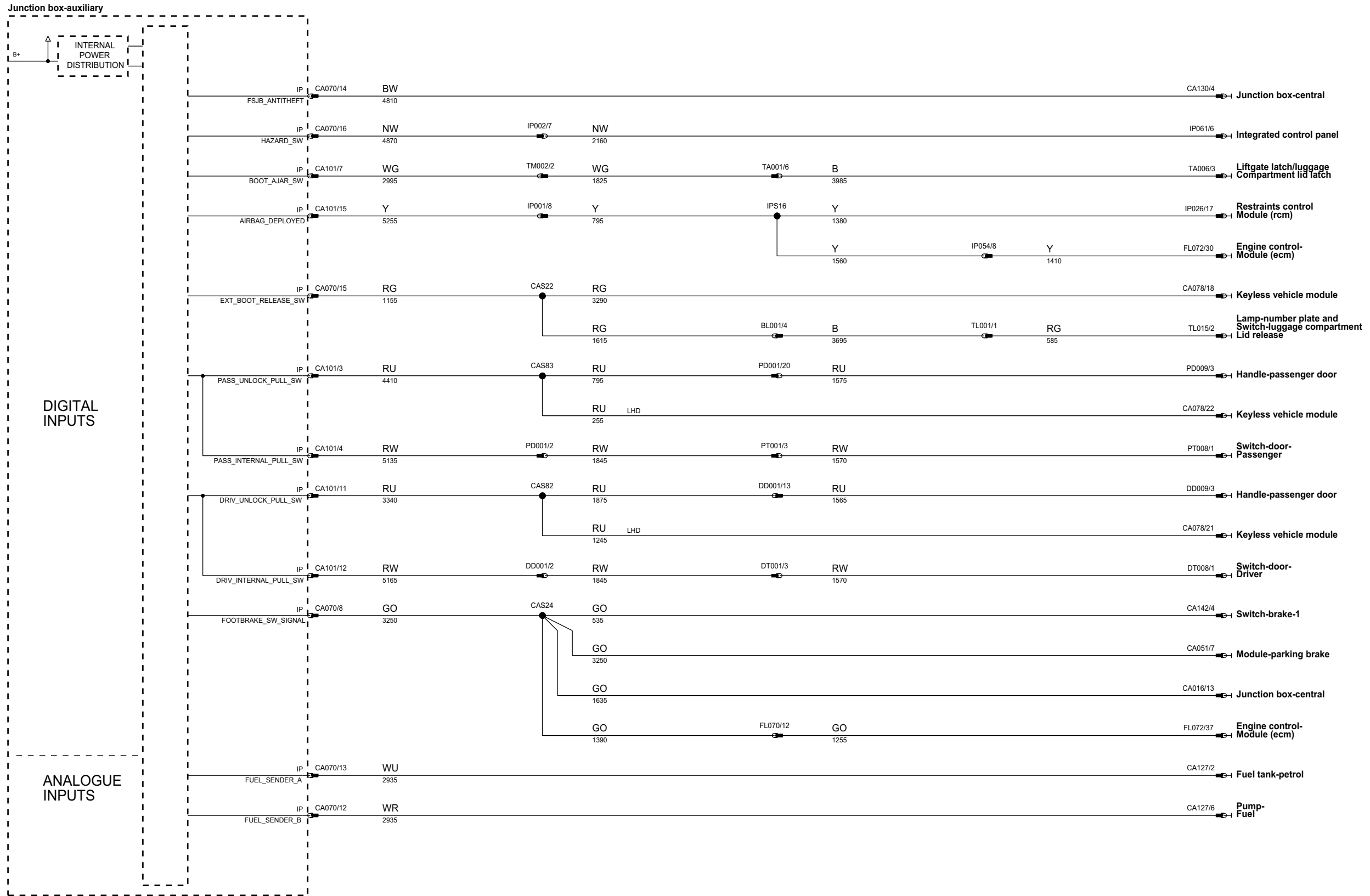
VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70012-1-a4



<b>B+</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70012-s-a4



B+ Battery Voltage  
P Power Ground

IP Input  
OP Output

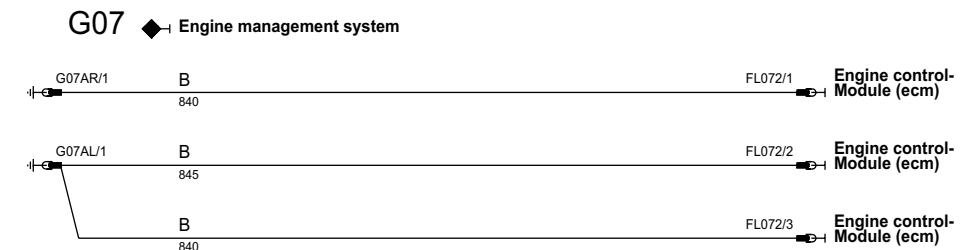
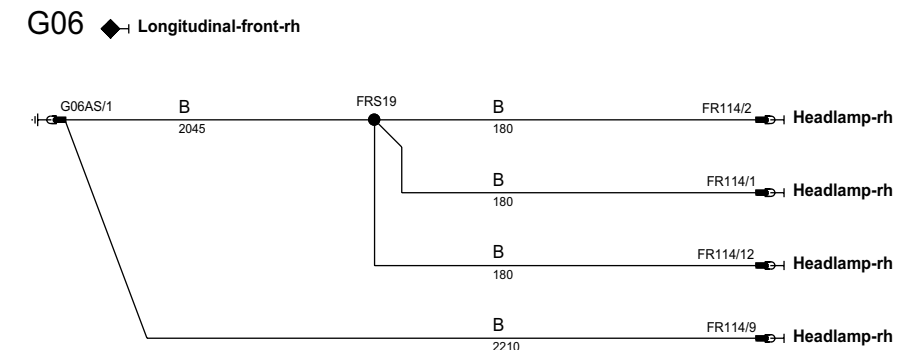
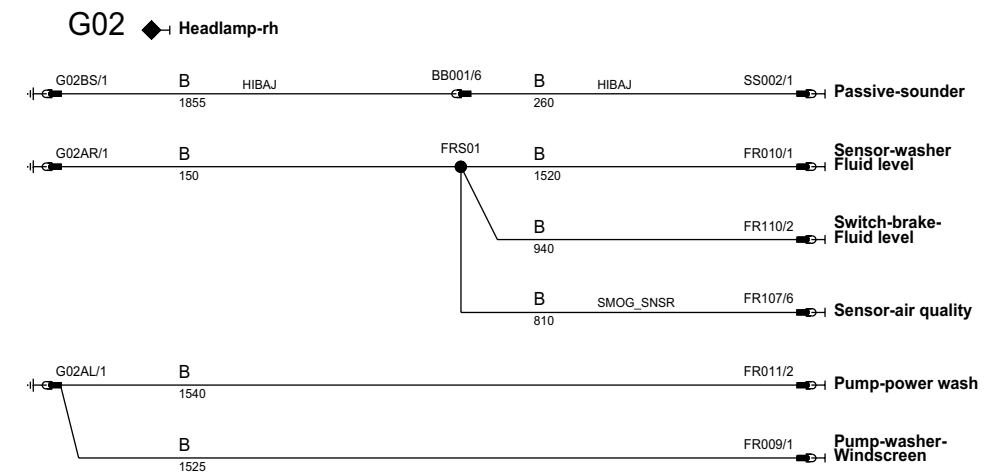
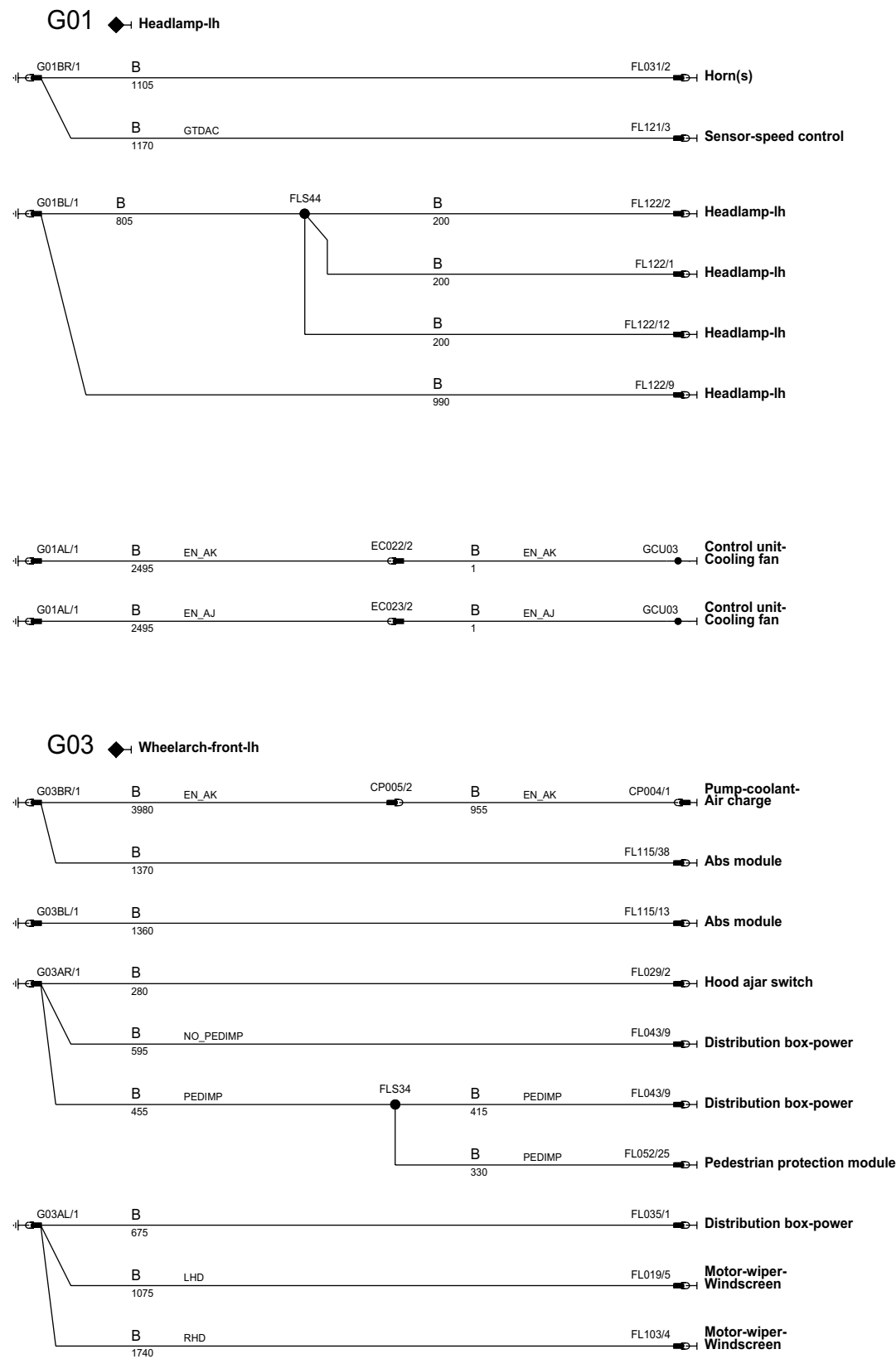
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70012-a-a4



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

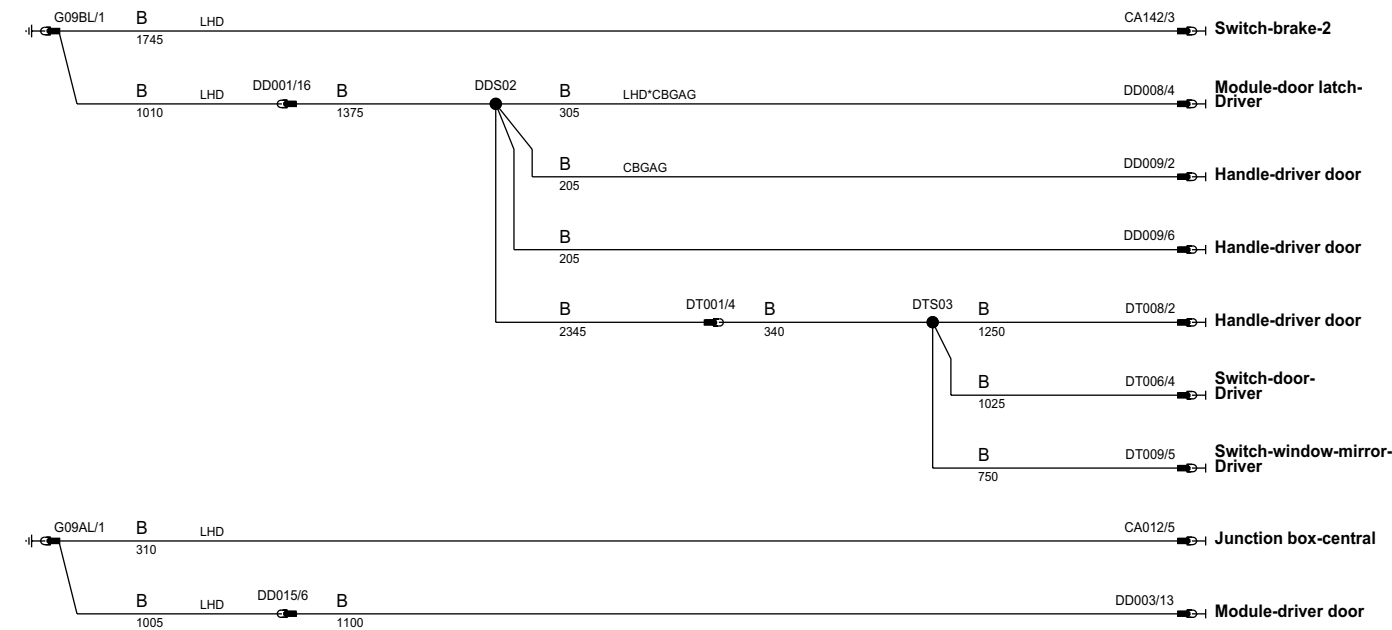
MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

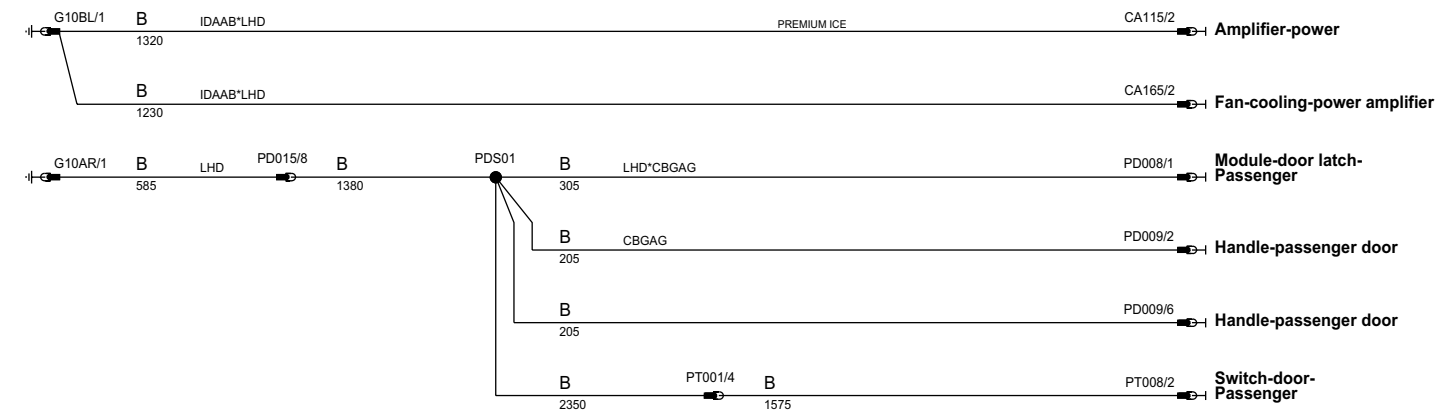
x

phcw83-70012-1-a4

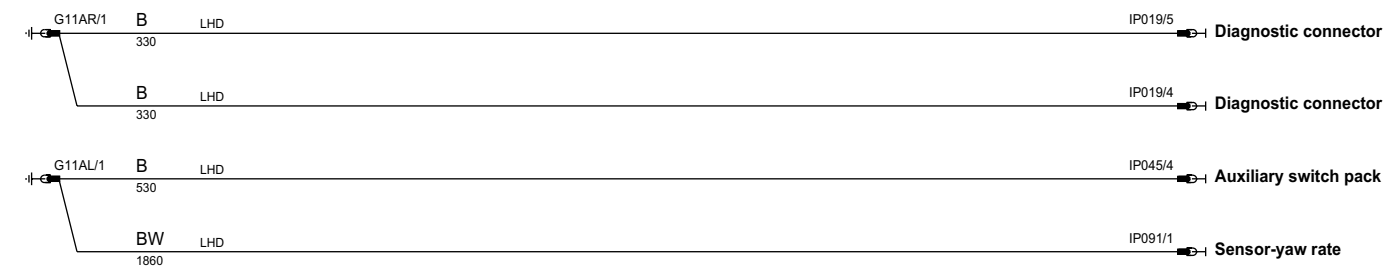
G09 (LHD) ◆ Lh 'a' post



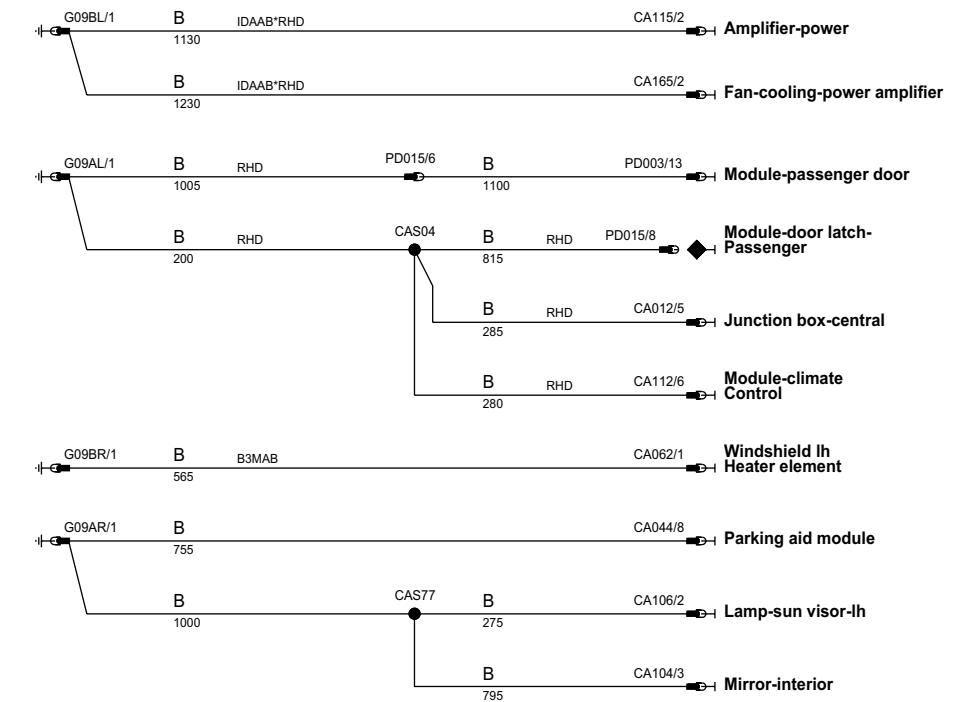
G10 (LHD) ◆ Rh 'a' post



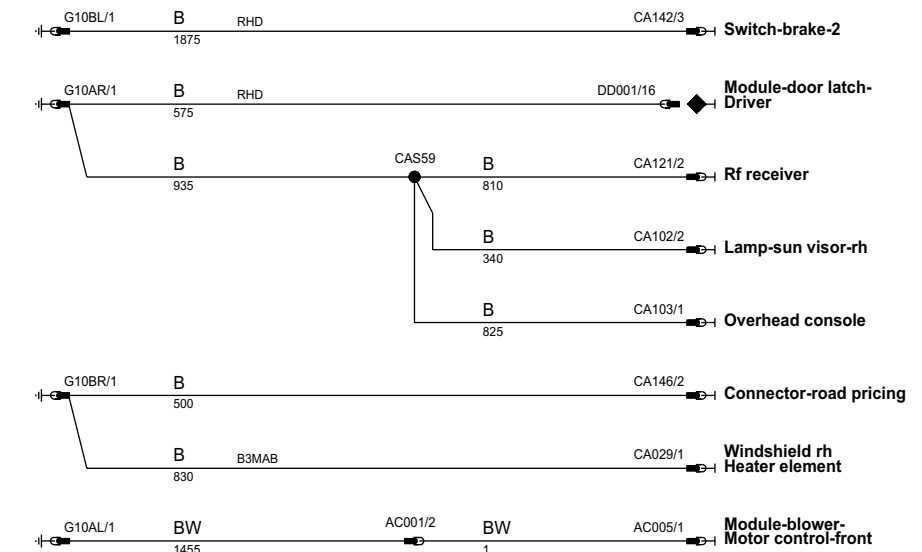
G11 ◆ Beam-instrument panel-lh



G09 (RHD) ◆ Lh 'a' post

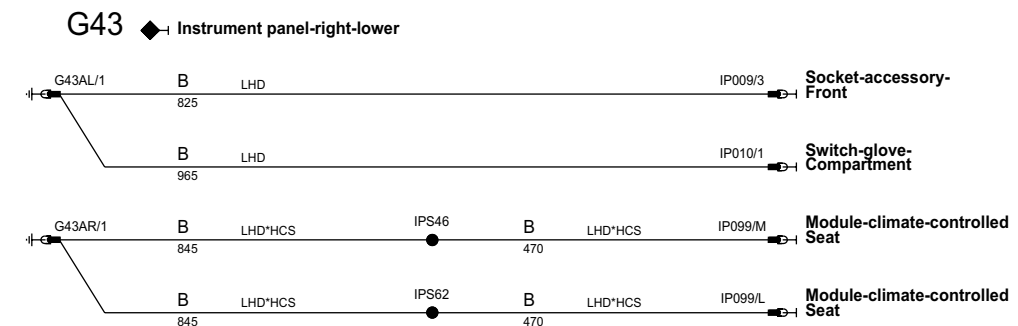
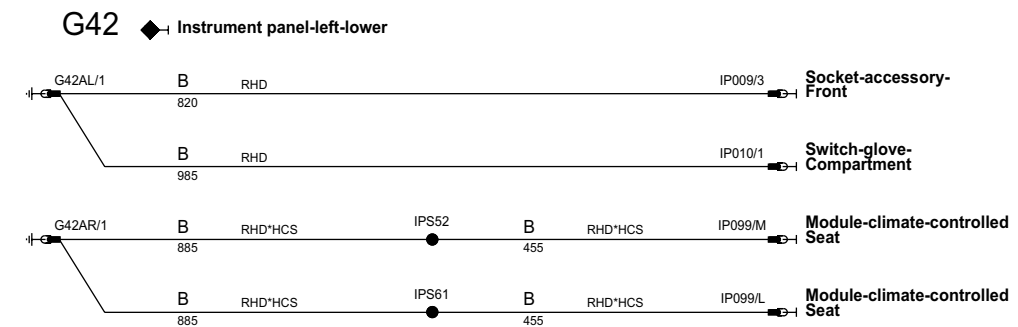
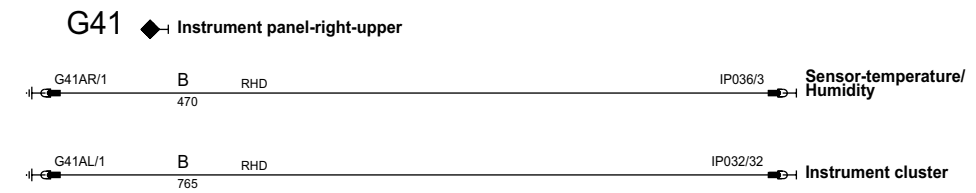
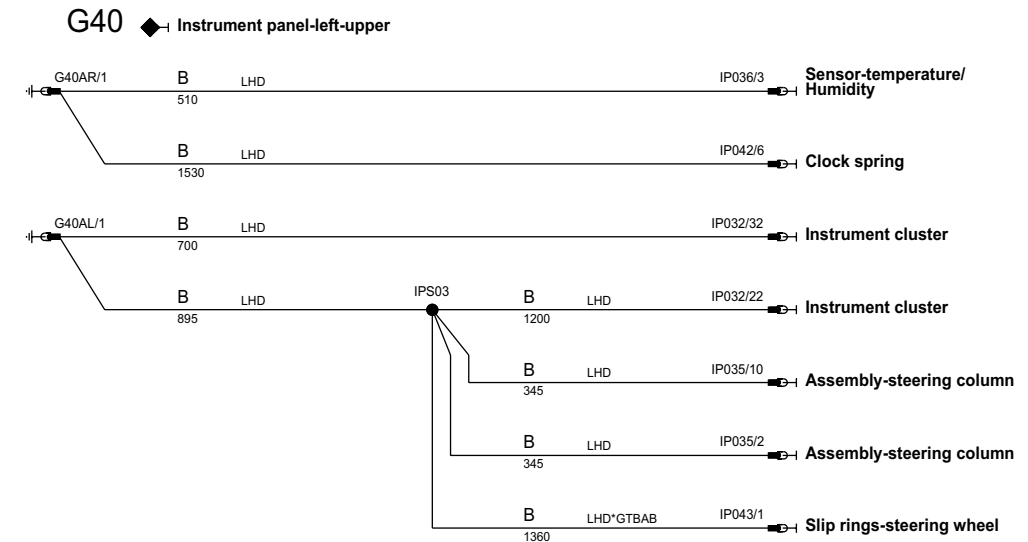
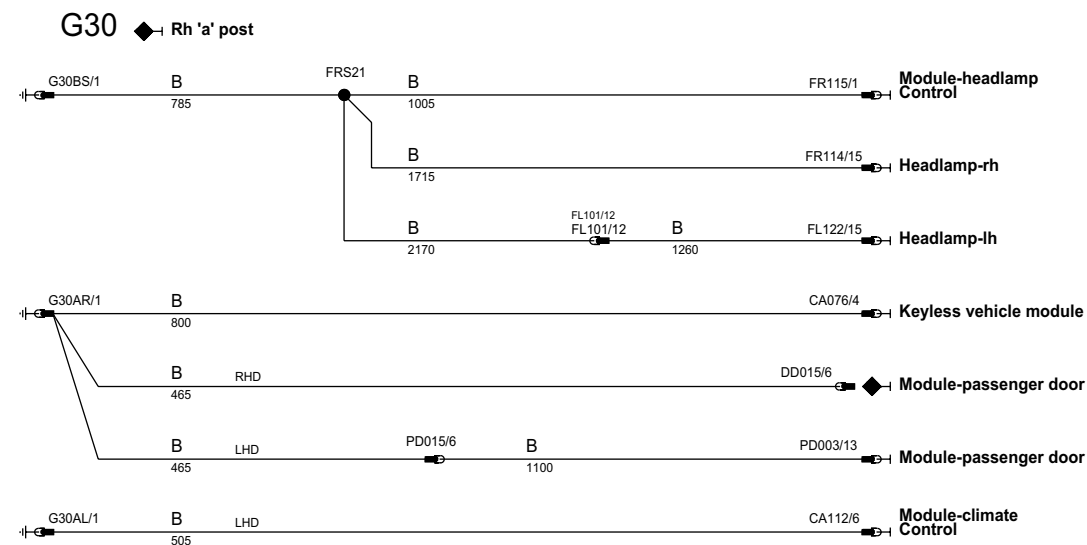
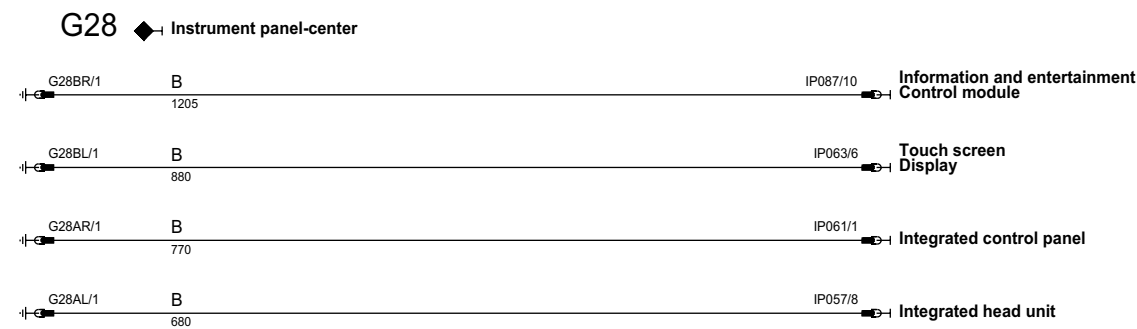
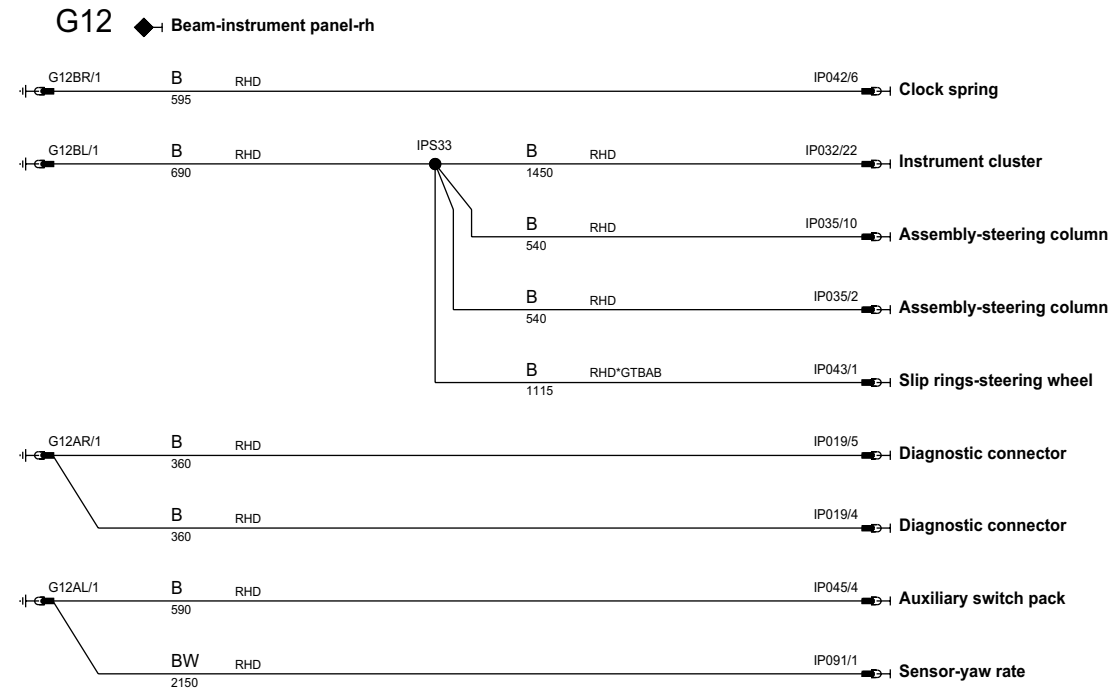


G10 (RHD) ◆ Rh 'a' post



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GRES Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phcw83-70012-n-a4



B- Battery Voltage    IP Input    VREF Sensor/Signal Supply V    HS CAN BUS High speed controller area network bus  
 P Power Ground    OP Output    GREF Sensor/Signal Ground    MS CAN BUS Medium speed controller area network bus

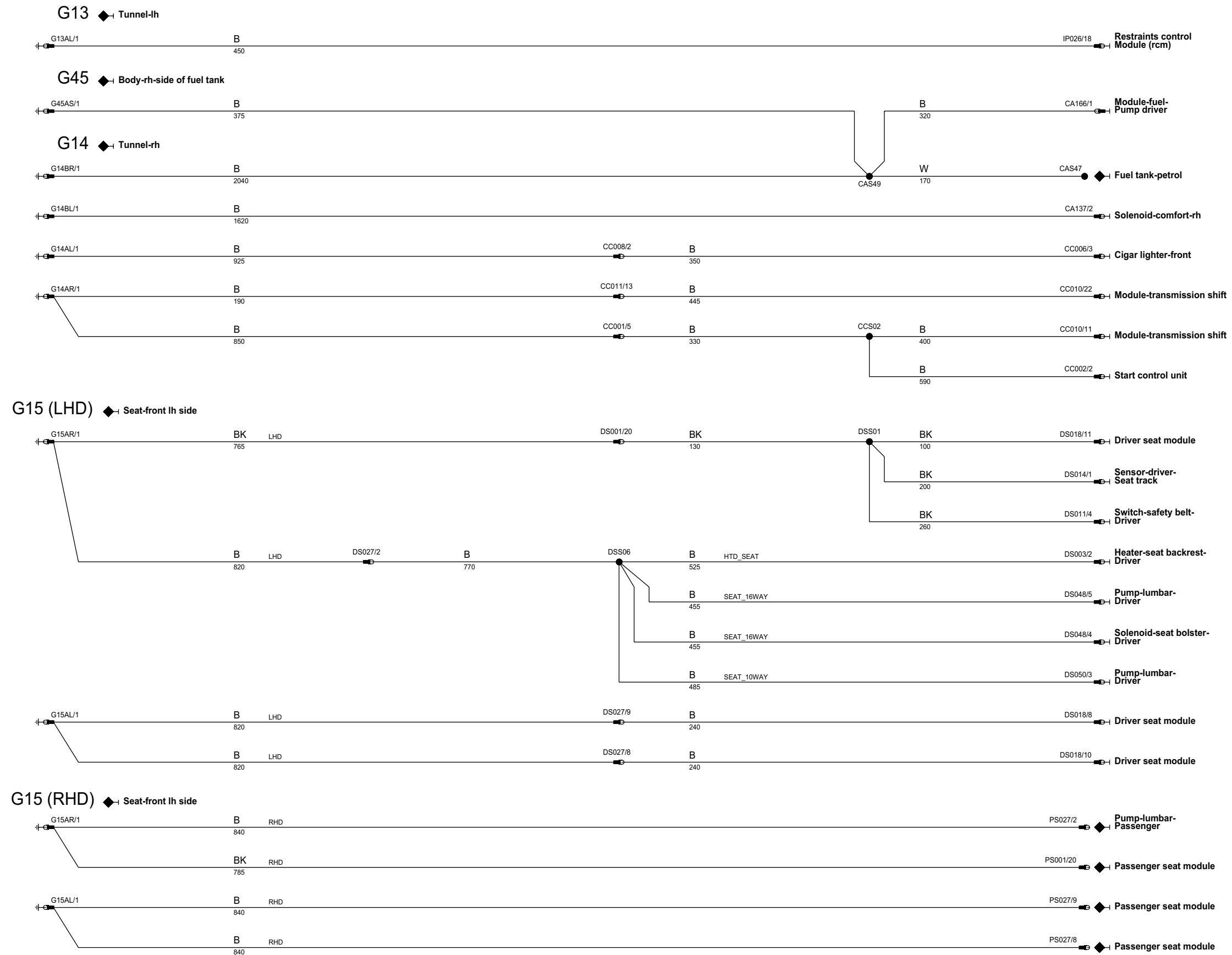
MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

x



phcw83-70012-k-a4



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

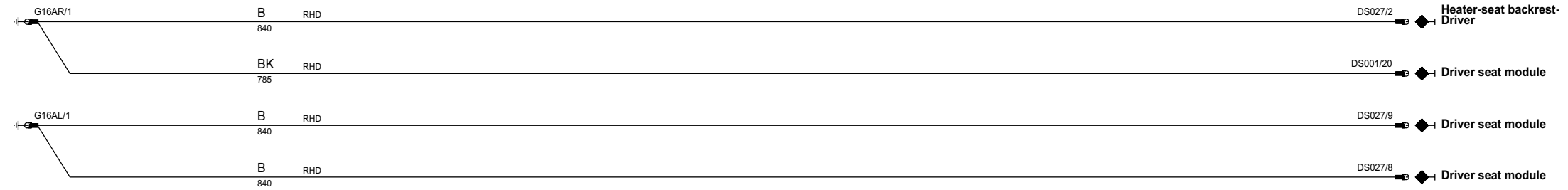
HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

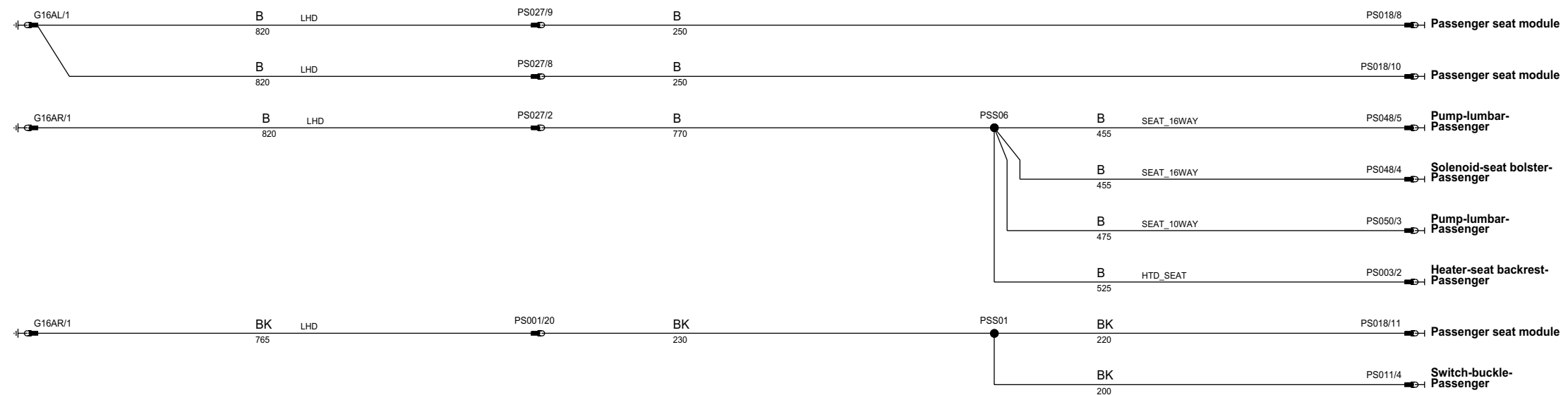
VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70012-b-a4

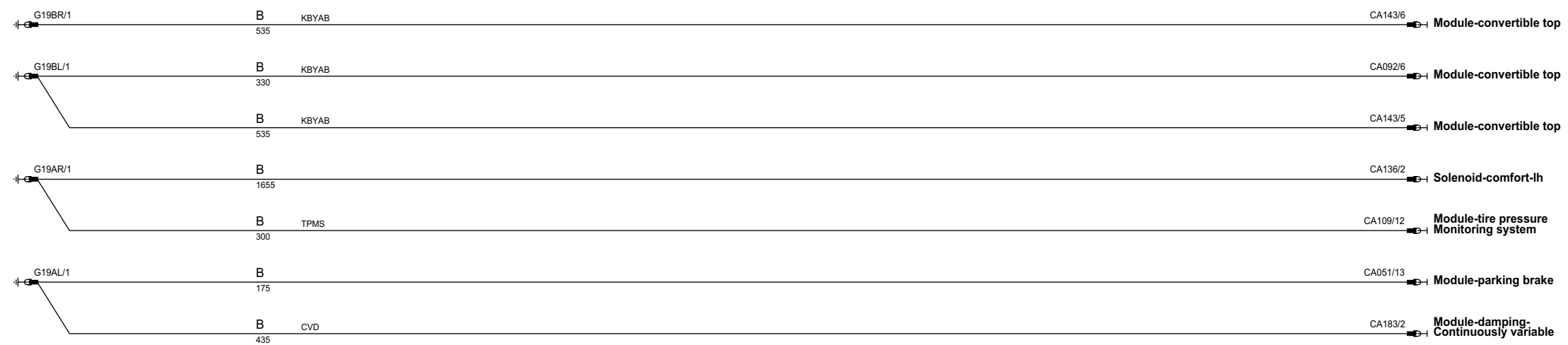
G16 (RHD) ◆ Seat-front rh side



G16 (LHD) ◆ Seat-front rh side



G19 ◆ Seatback-rear-lh



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

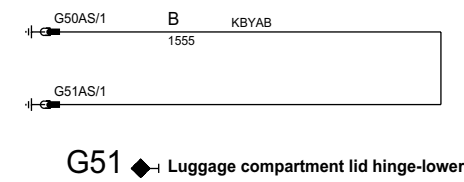
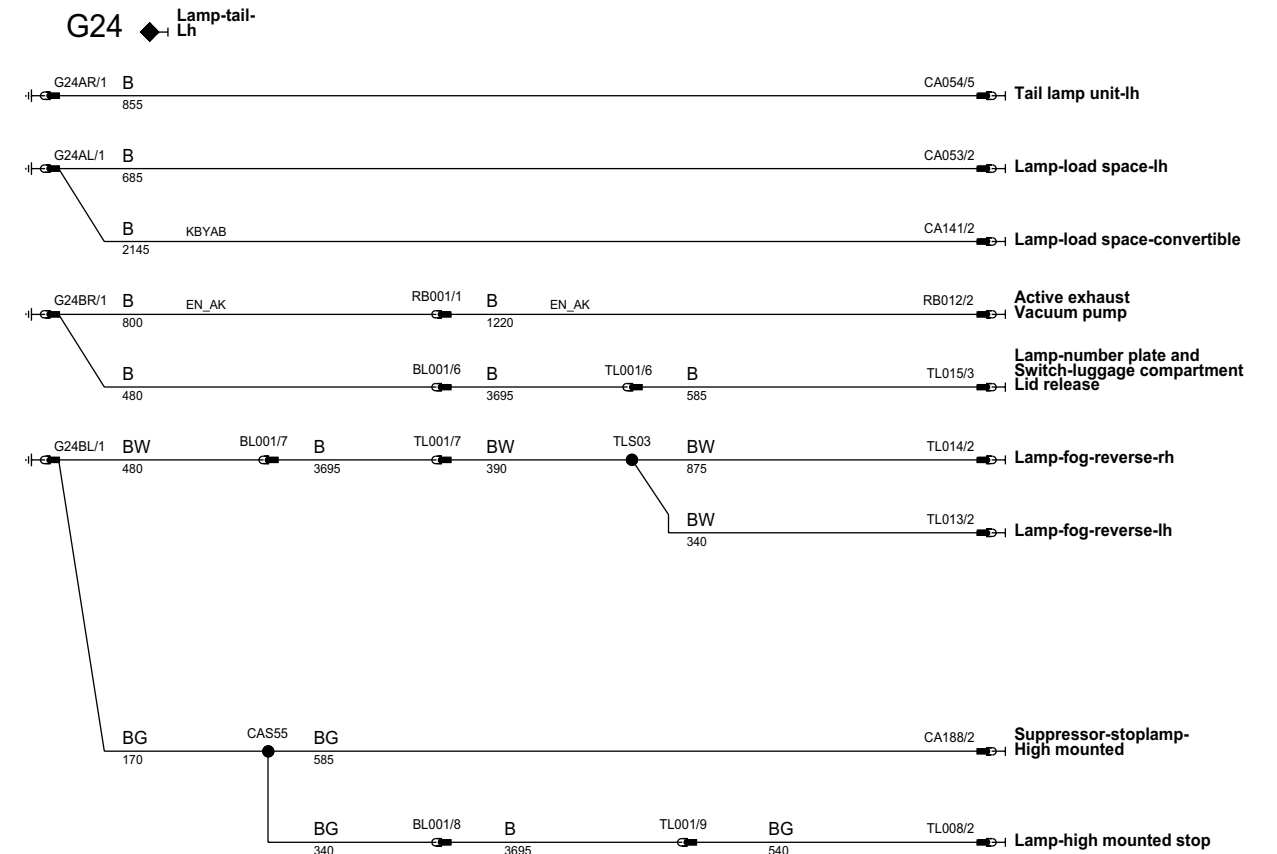
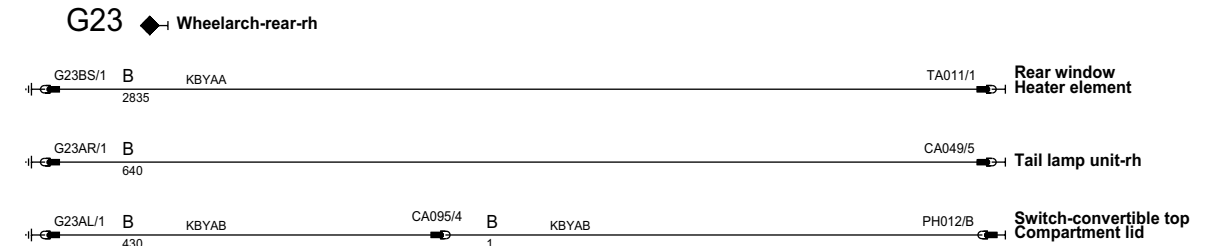
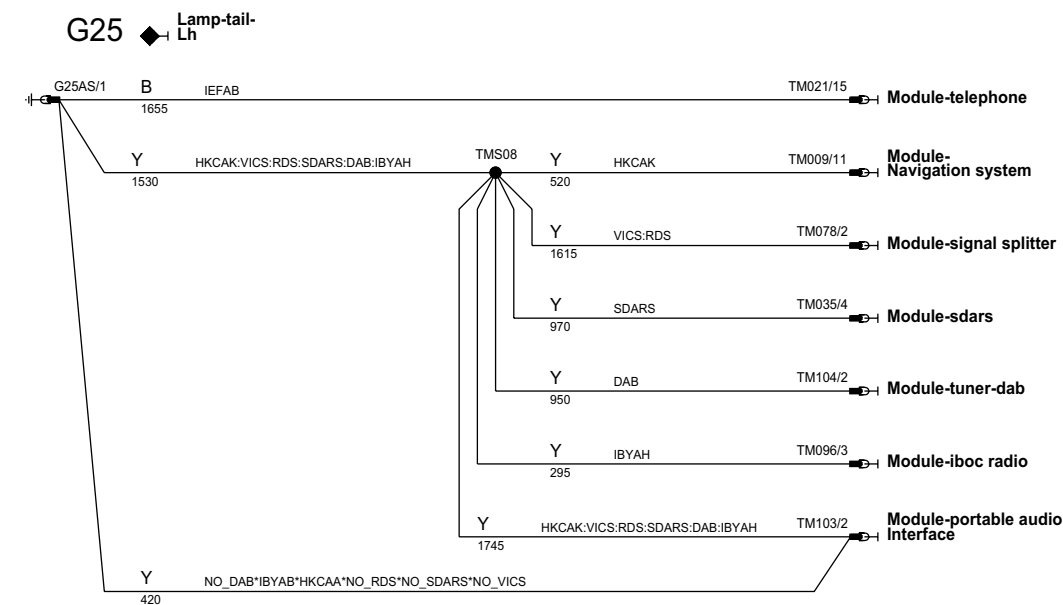
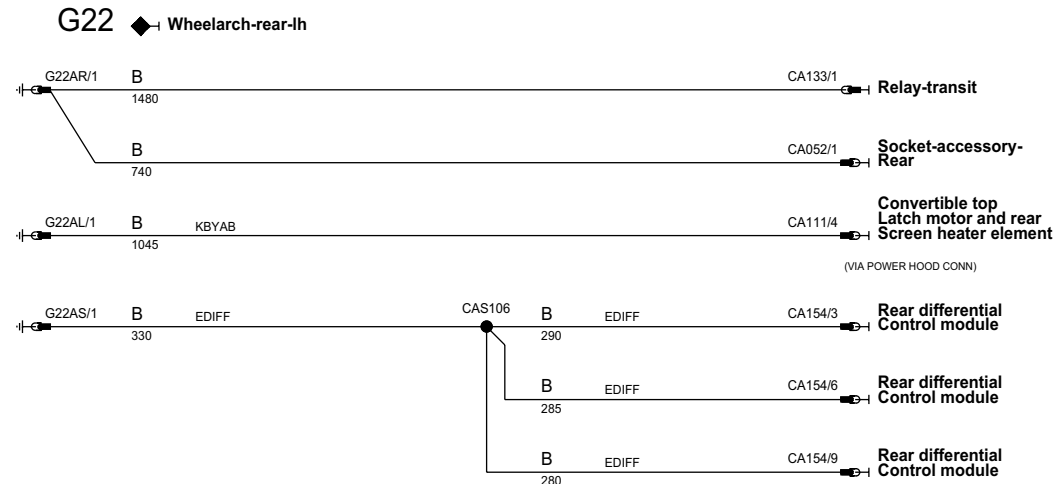
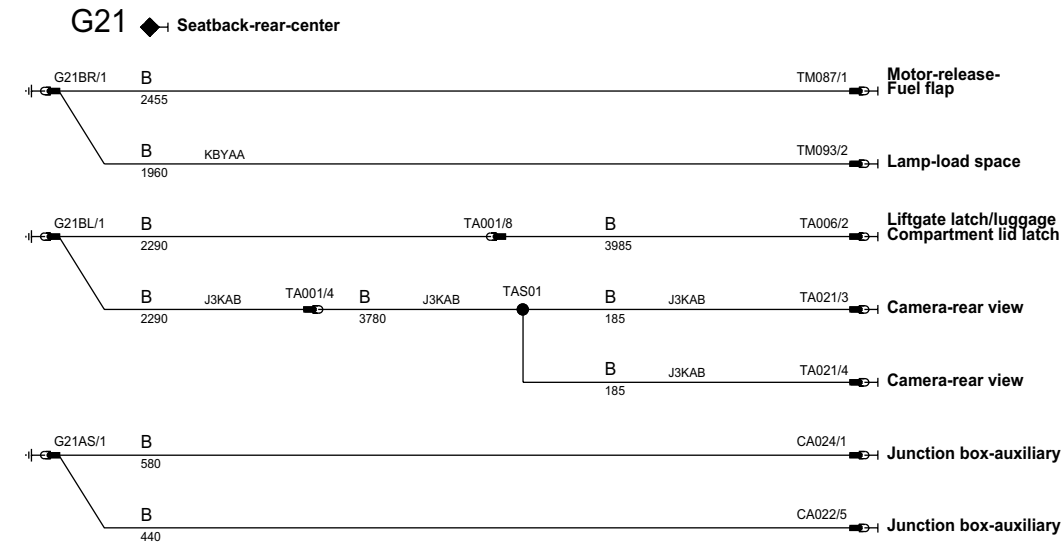
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

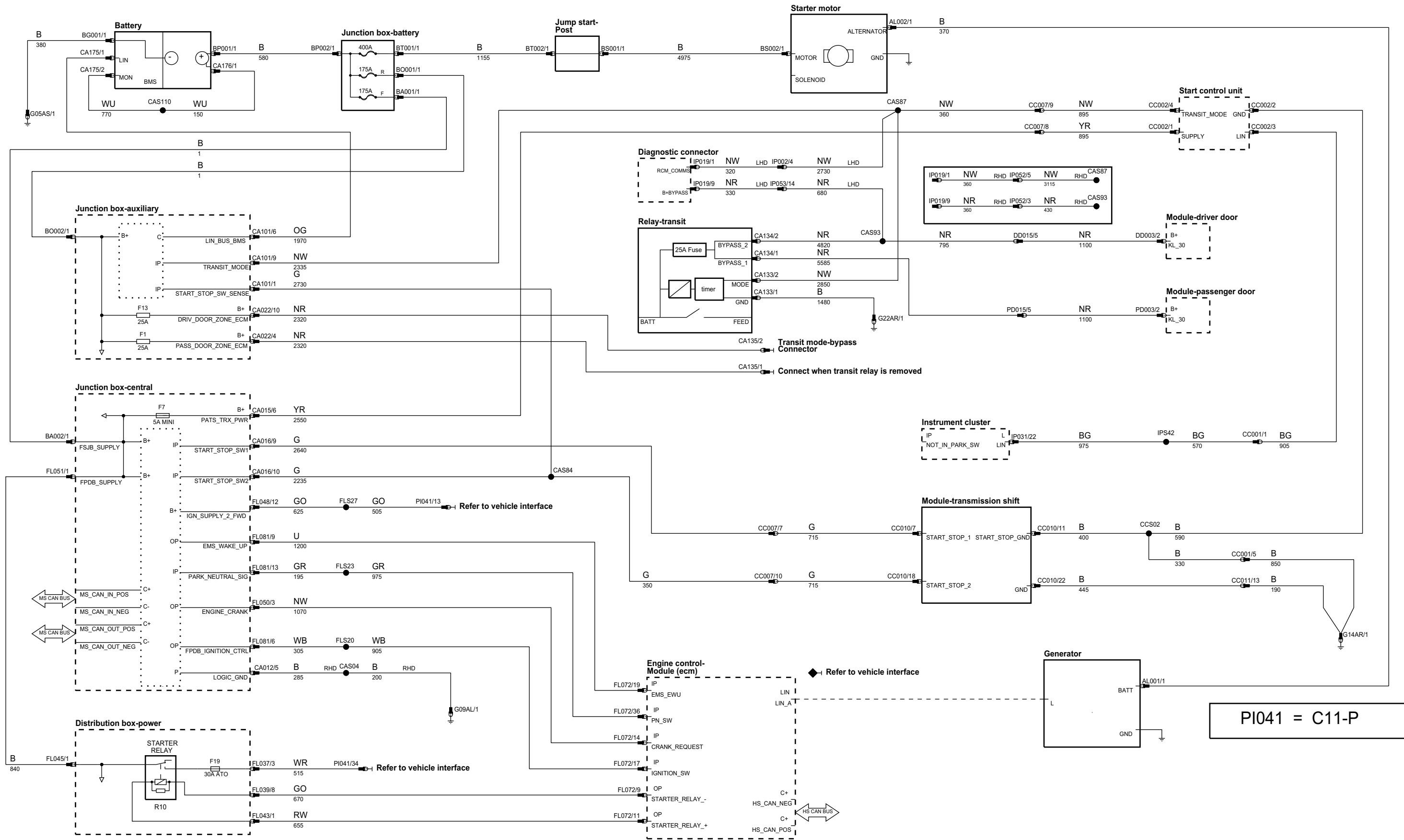
VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70012-r-a4



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GREF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phw83-70020-a2-e4



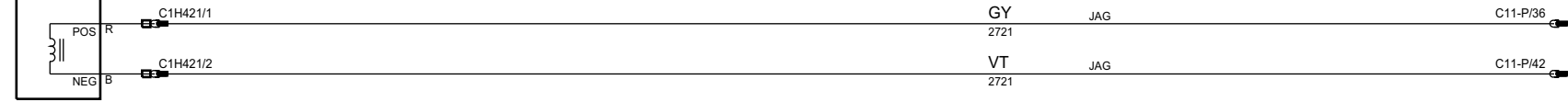
PI041 = C11-P

B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus
P Power Ground	OP Output	GRF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phaj133-70031-a-a4

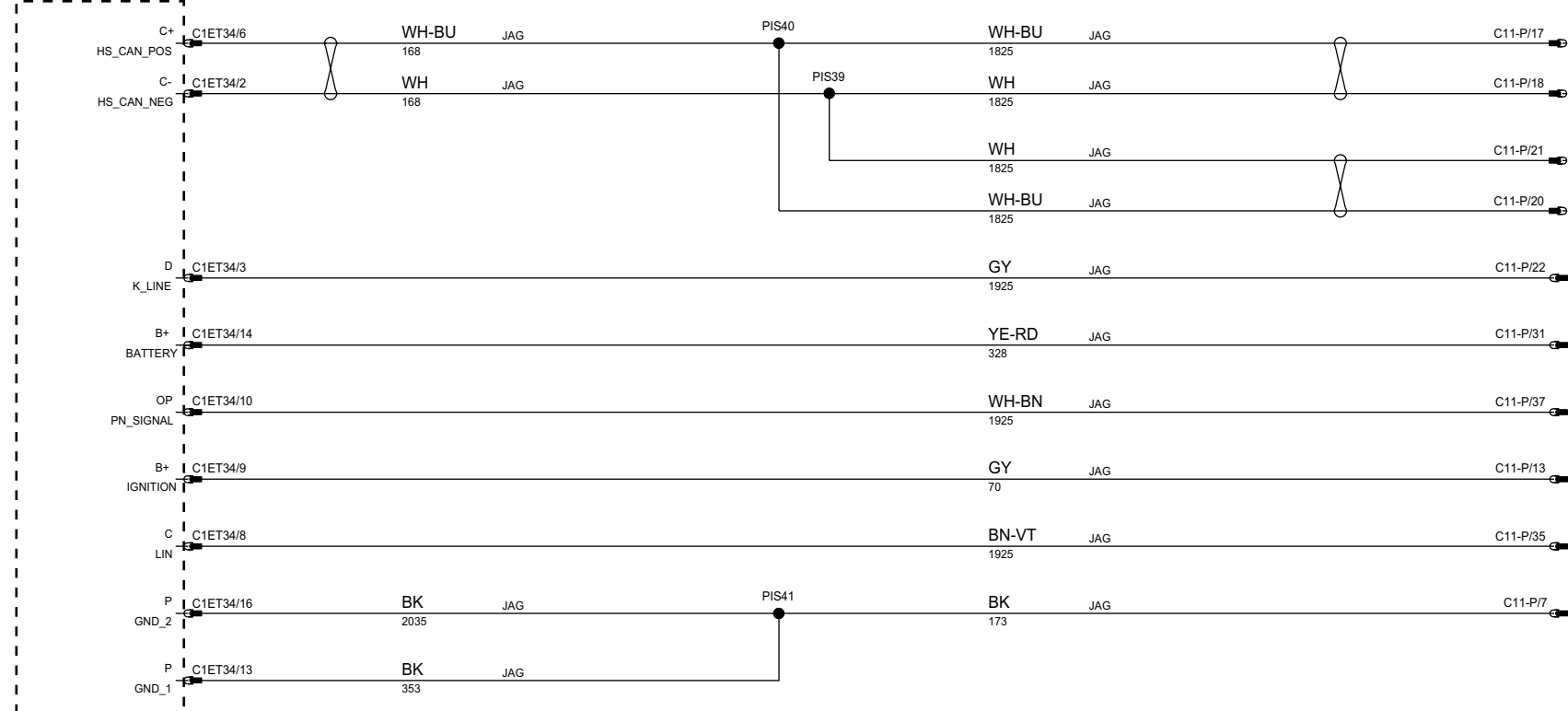
**Air conditioning (a/c)  
Compressor solenoid**



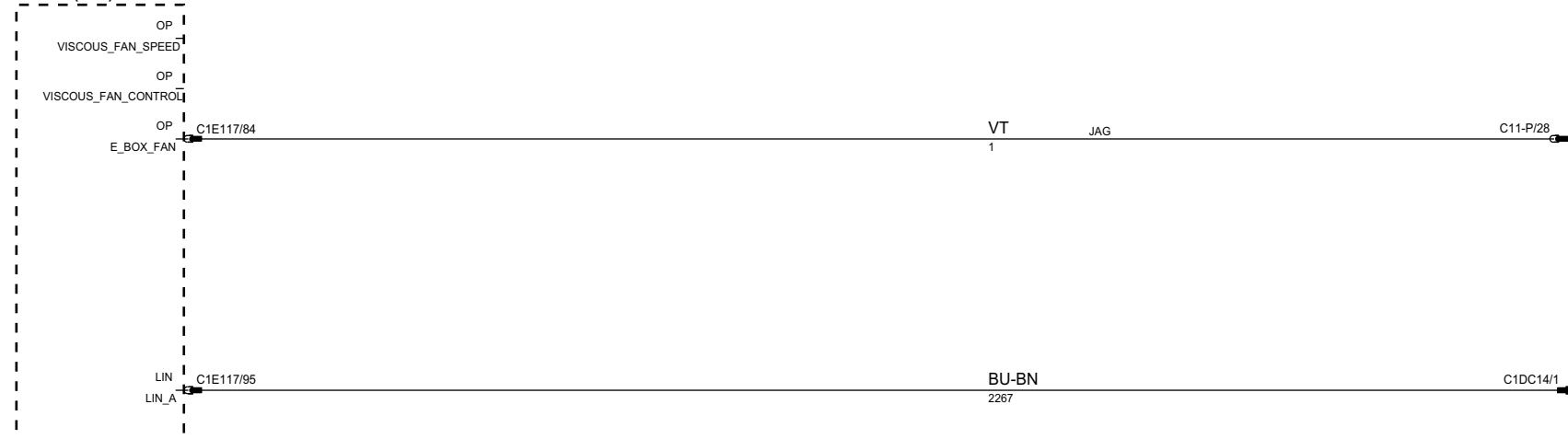
**Starter motor**



**Transmission control  
Module**

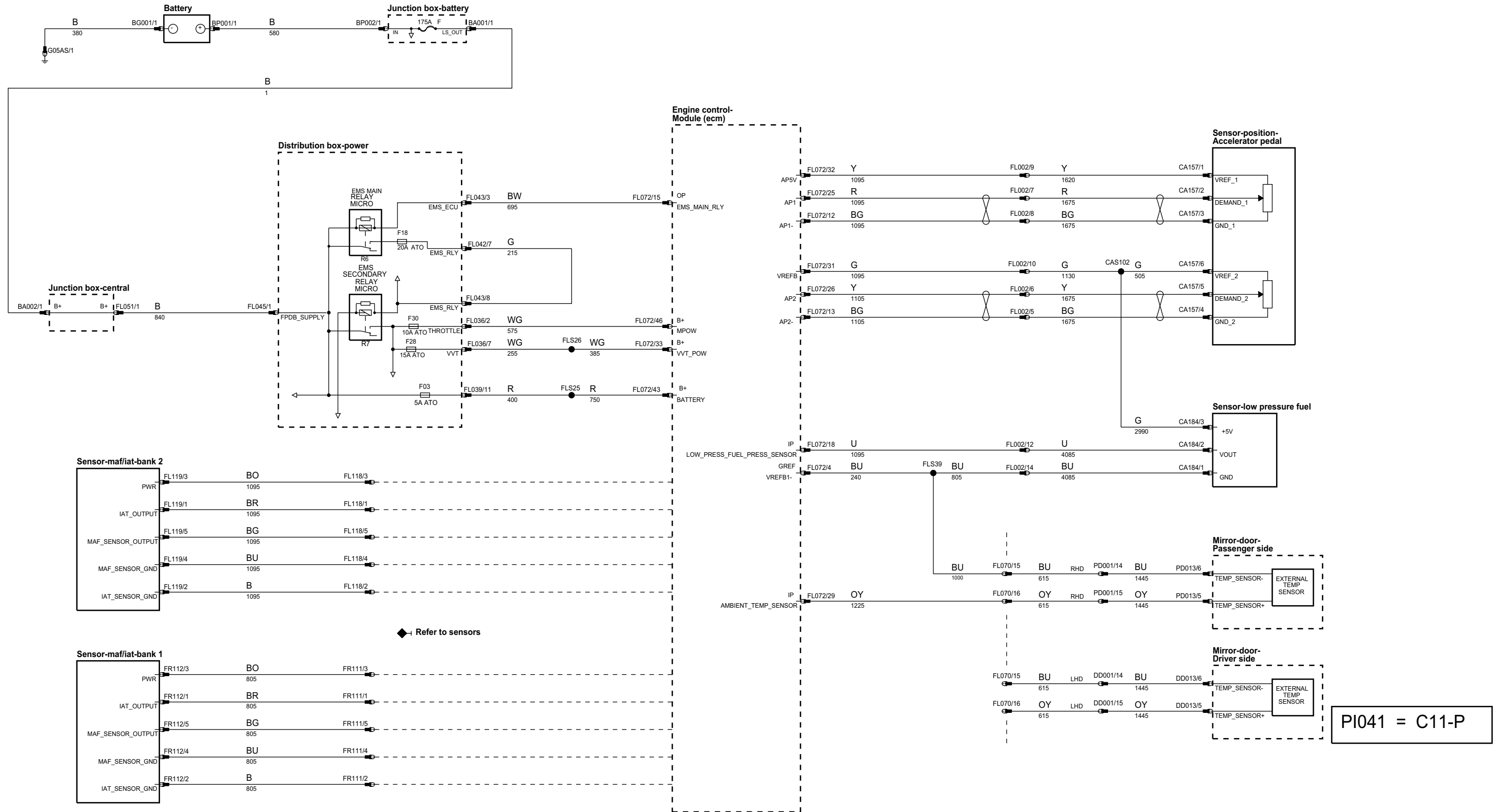


**Engine control-  
Module (ecm)**



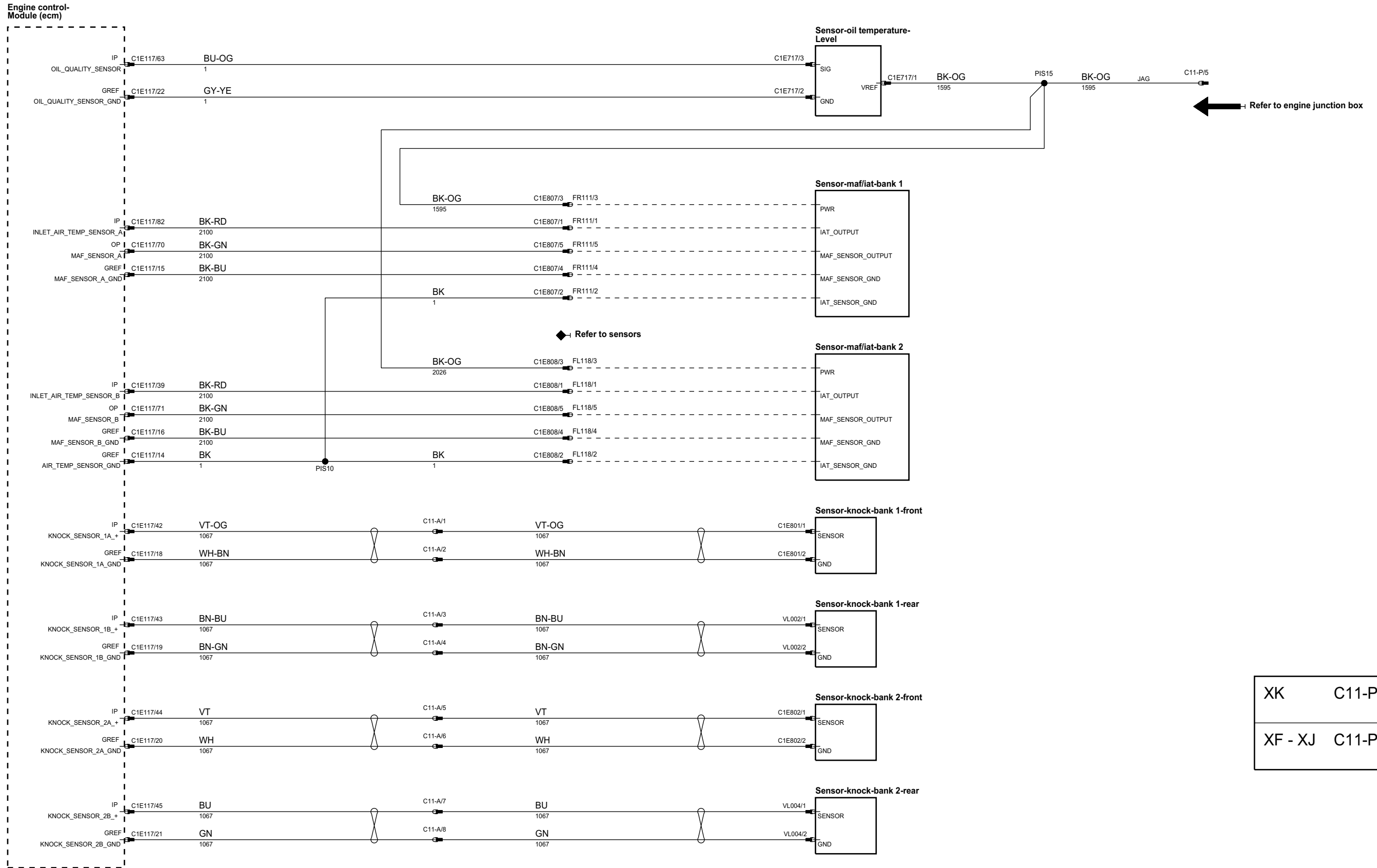
XK	C11-P = PI041
XF - XJ	C11-P = C11-P

phcw83-70035-a2-a4



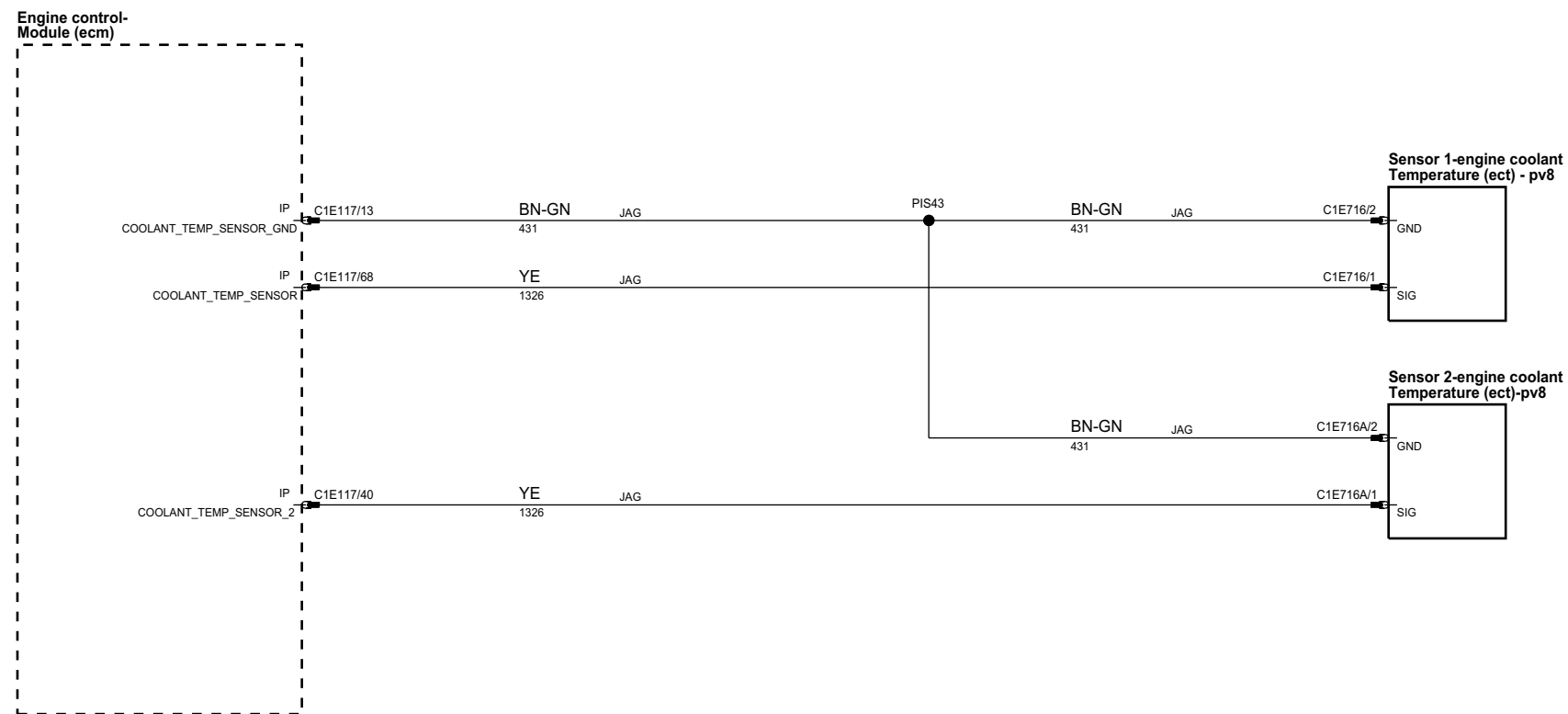
<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

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XK	C11-P = PI041
XF - XJ	C11-P = C11-P

phaj133-70035-b-a4



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

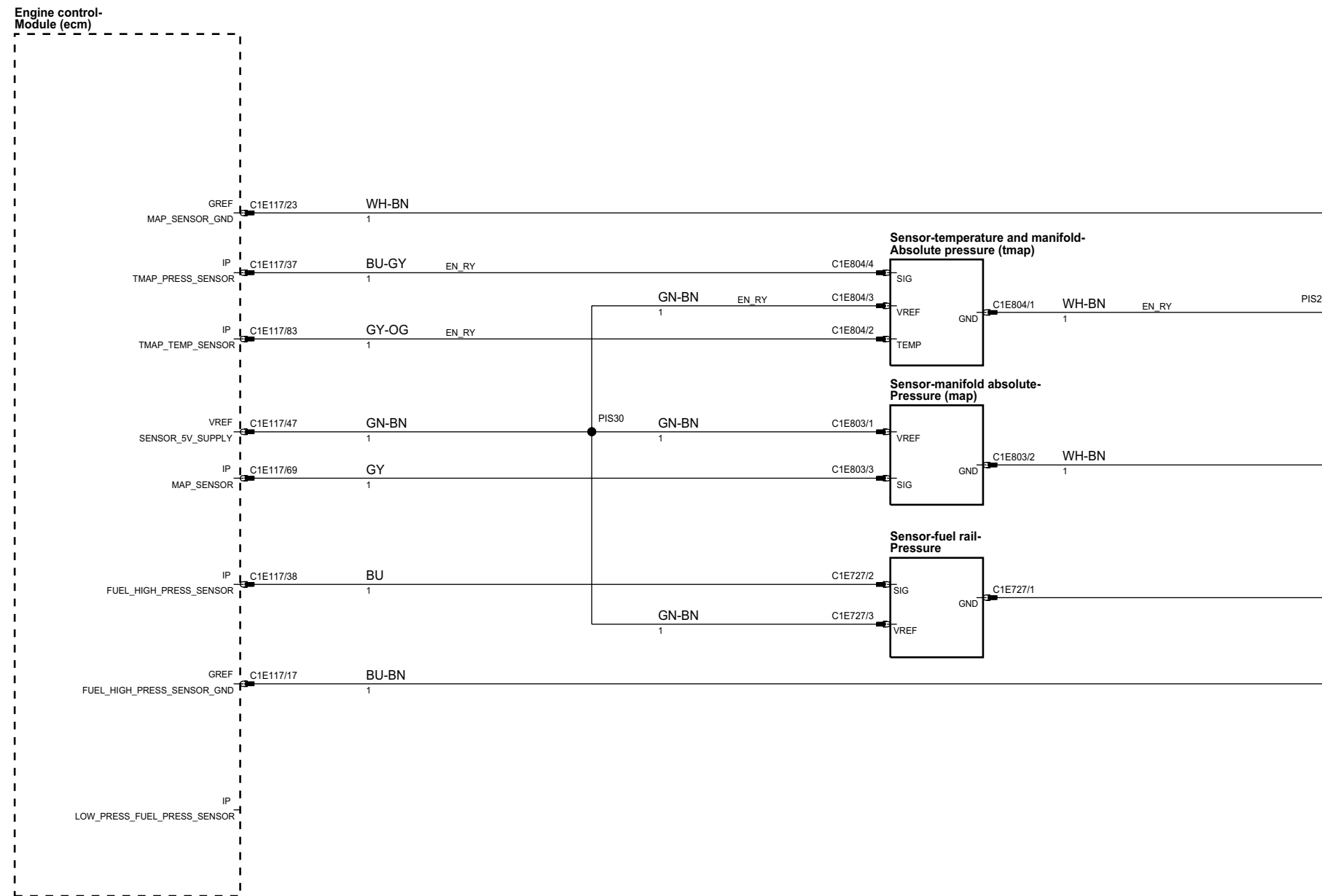
HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011



phaj133-70035-c-a4



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

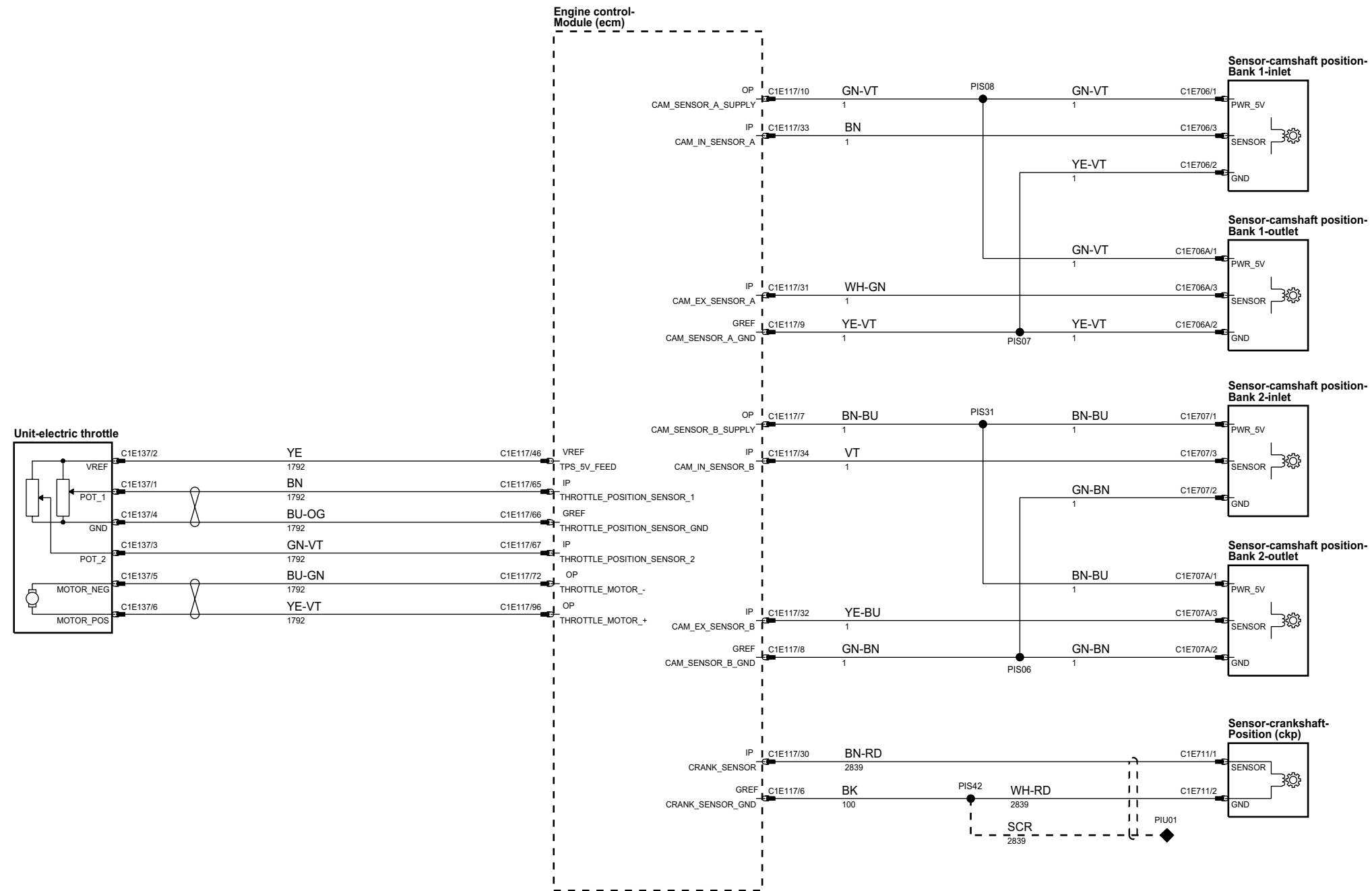
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

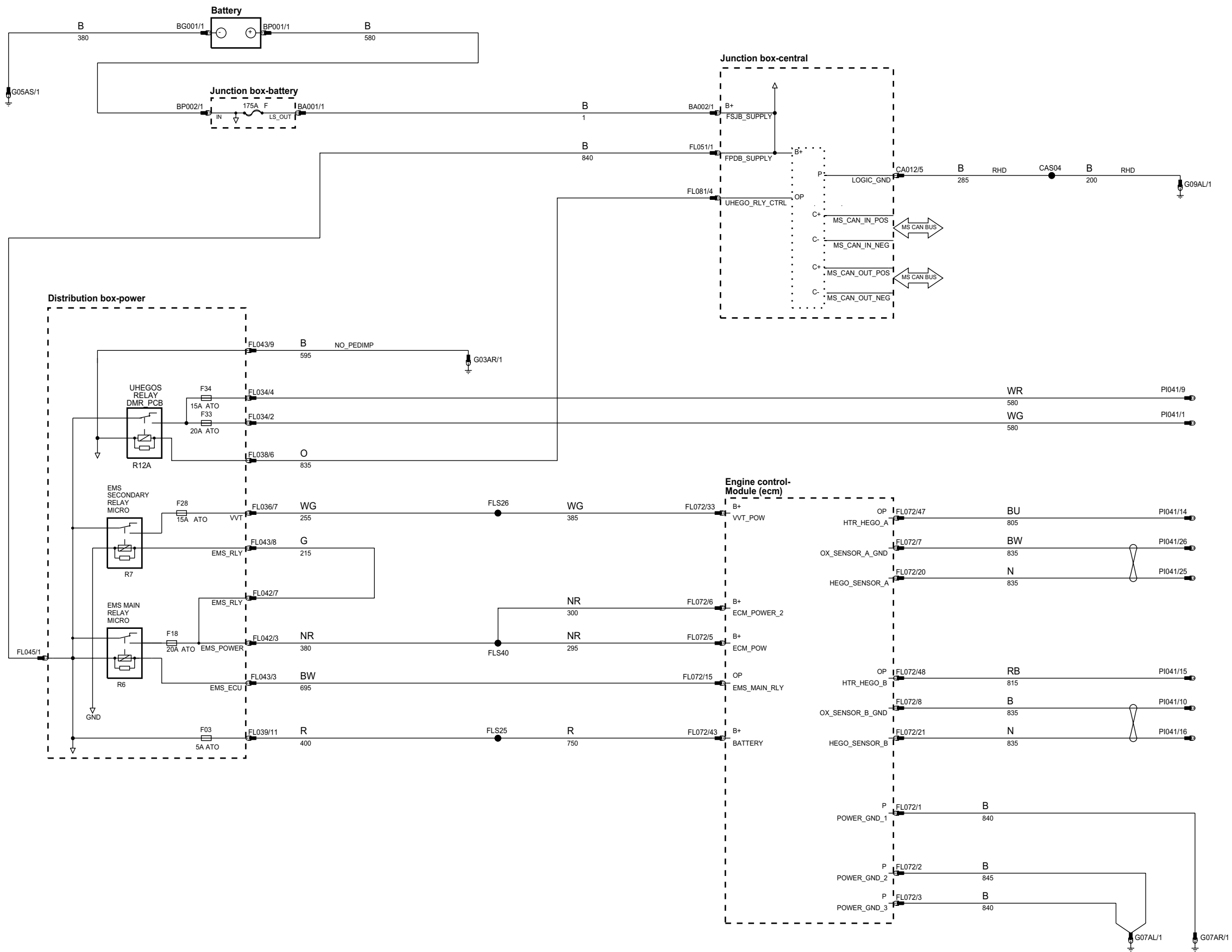
VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phaj133-70035-d-a4



<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All
<b>P</b> Power Ground	<b>OP</b> Output	<b>GREF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70035-b2-a4



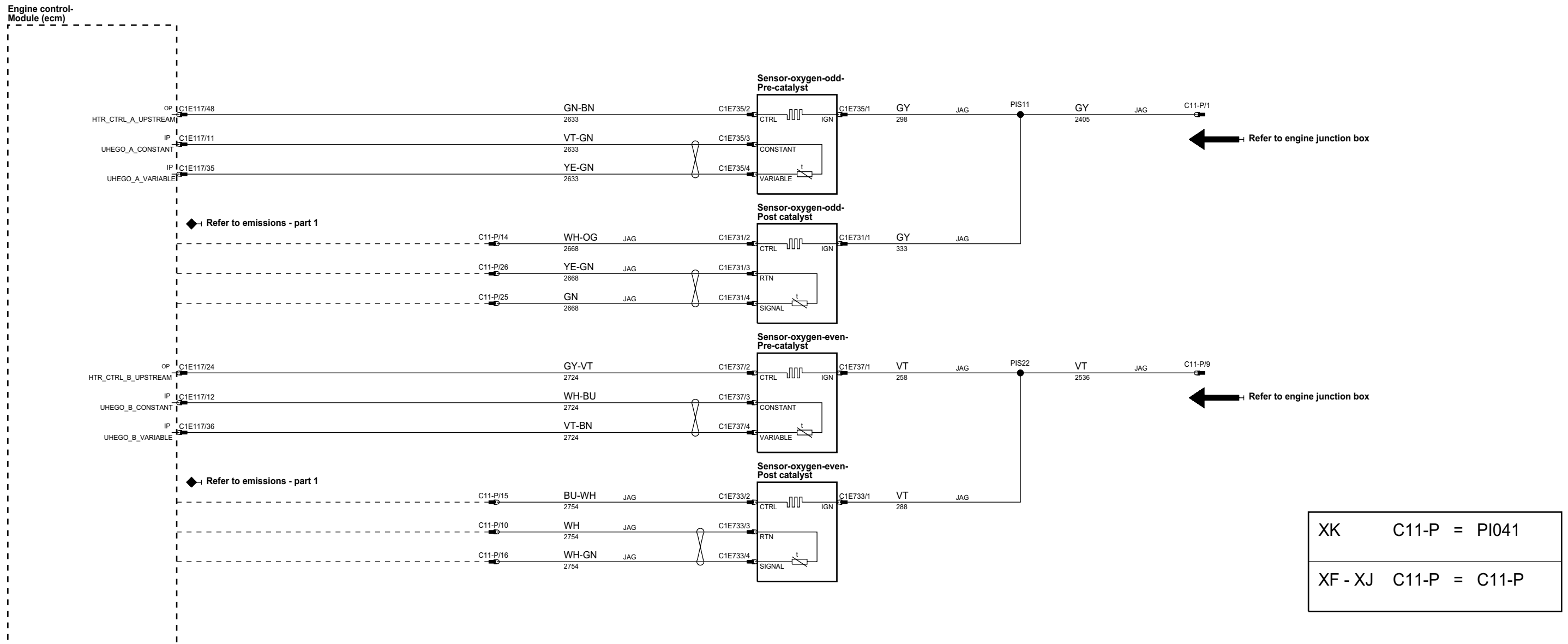
Refer to emissions part 2

PI041 = C11-P

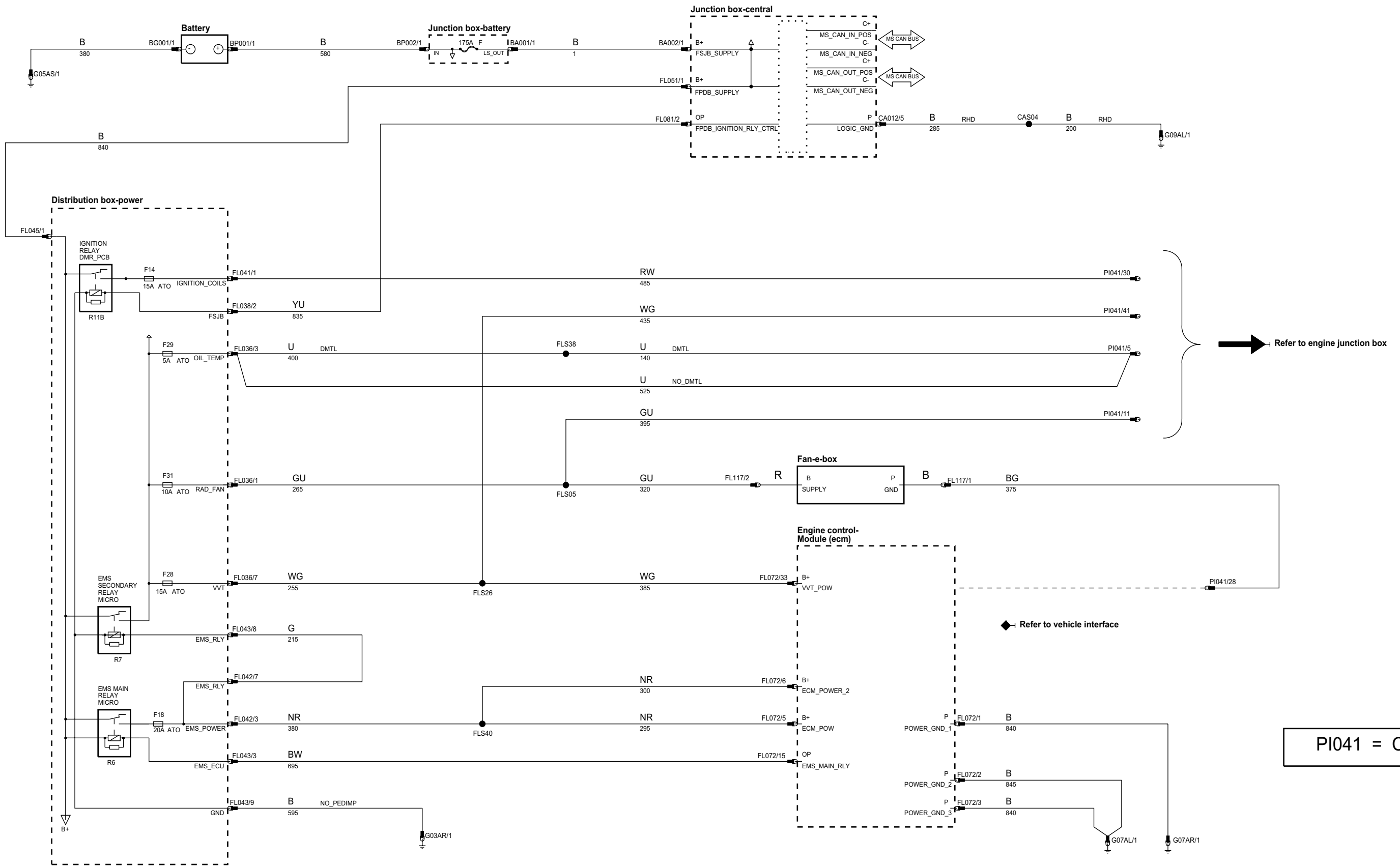
<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phaj133-70035-e-a4



phcw83-70035-d2-a4



Refer to engine junction box

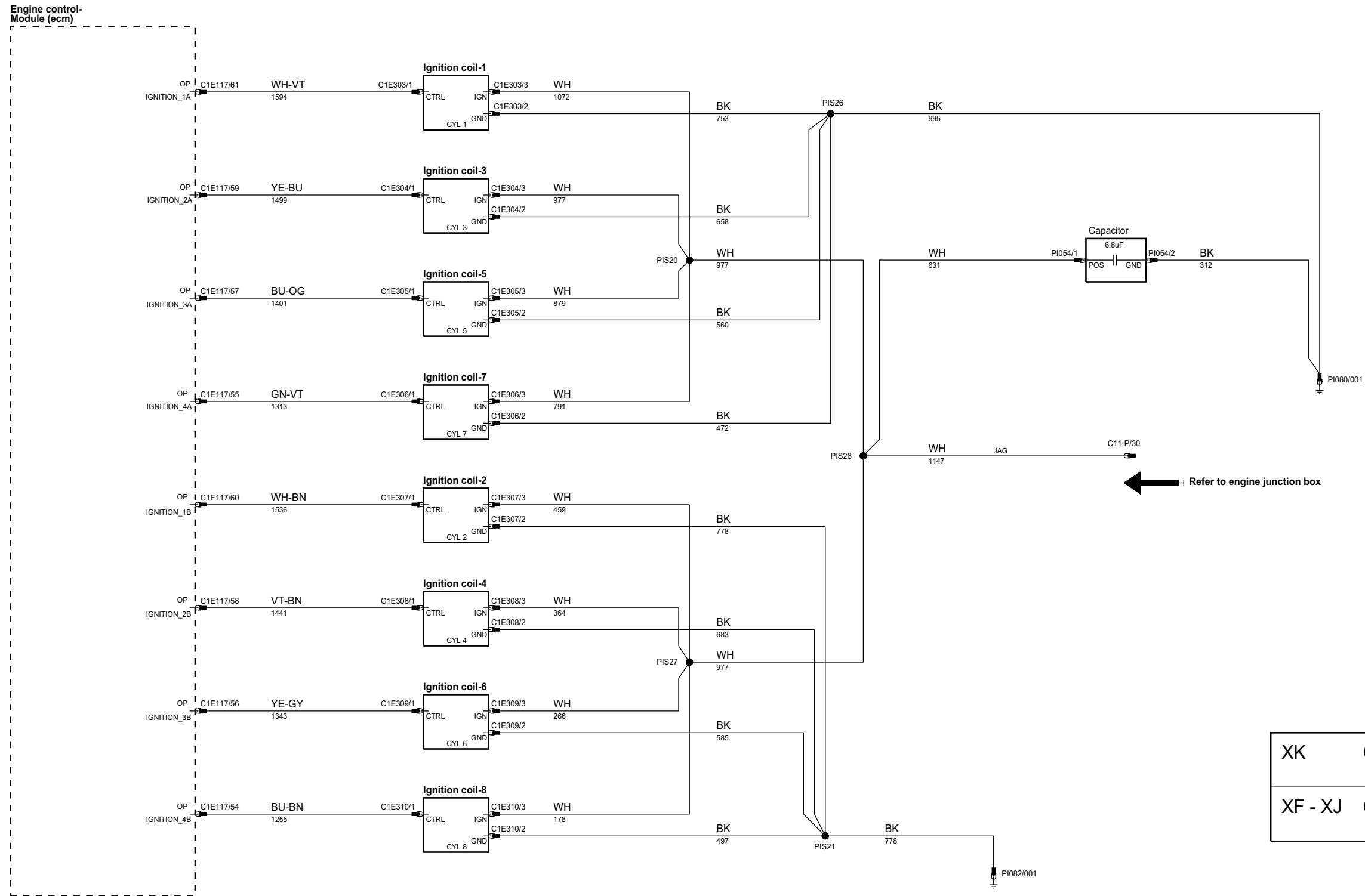
Refer to vehicle interface

PI041 = C11-P

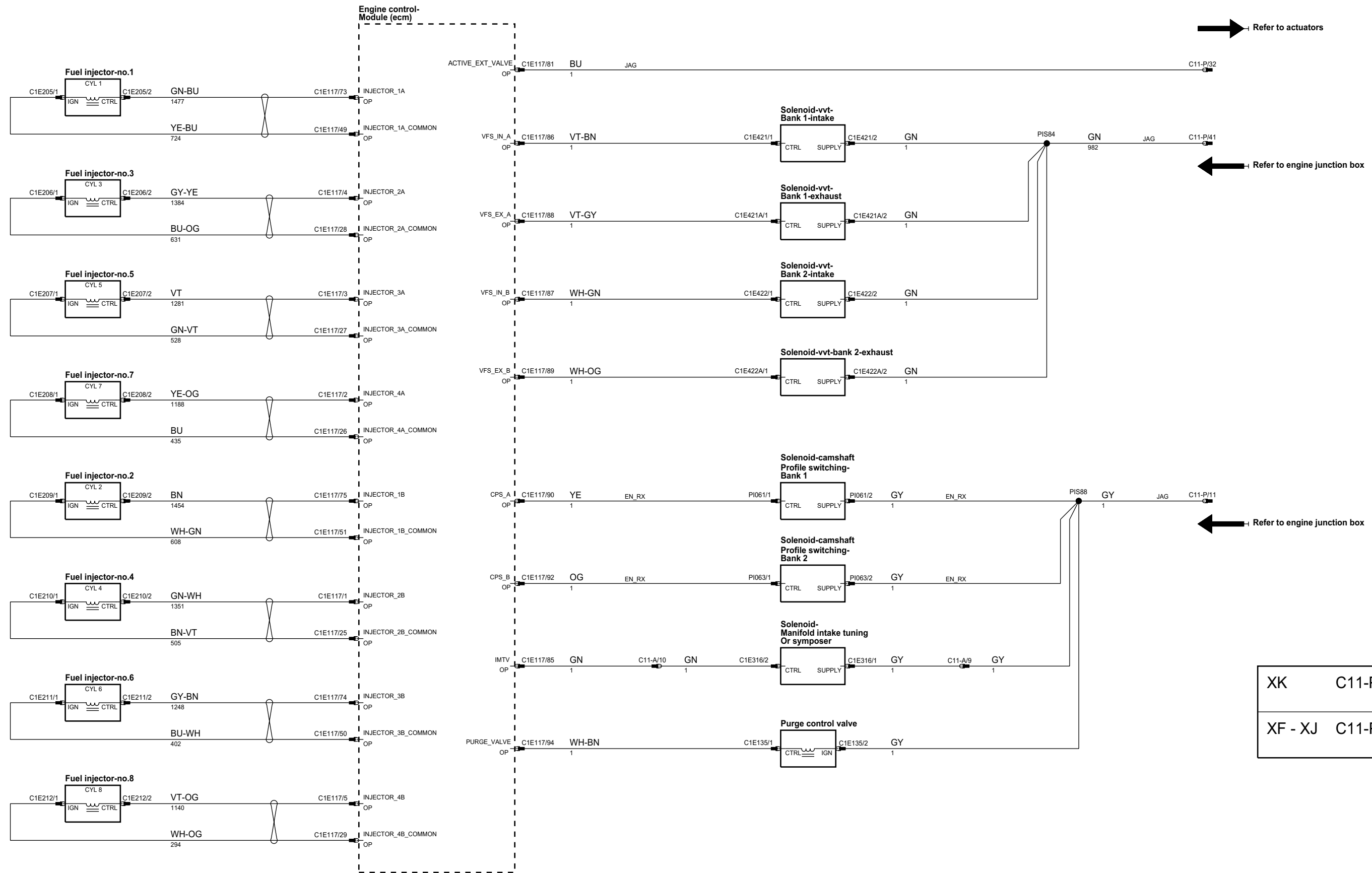
<b>B</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phaj133-70035-f-a4



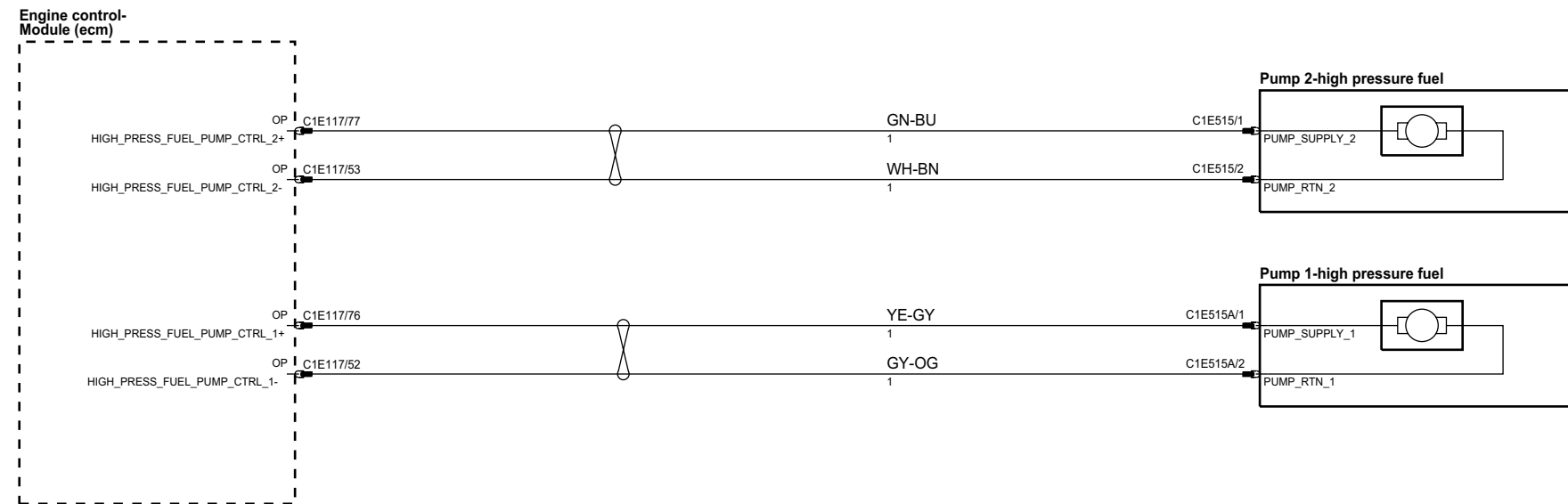
phaj133-70035-g-a4



XK	C11-P = PI041
XF - XJ	C11-P = C11-P

B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GRES Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phaj133-70035-b-a4



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

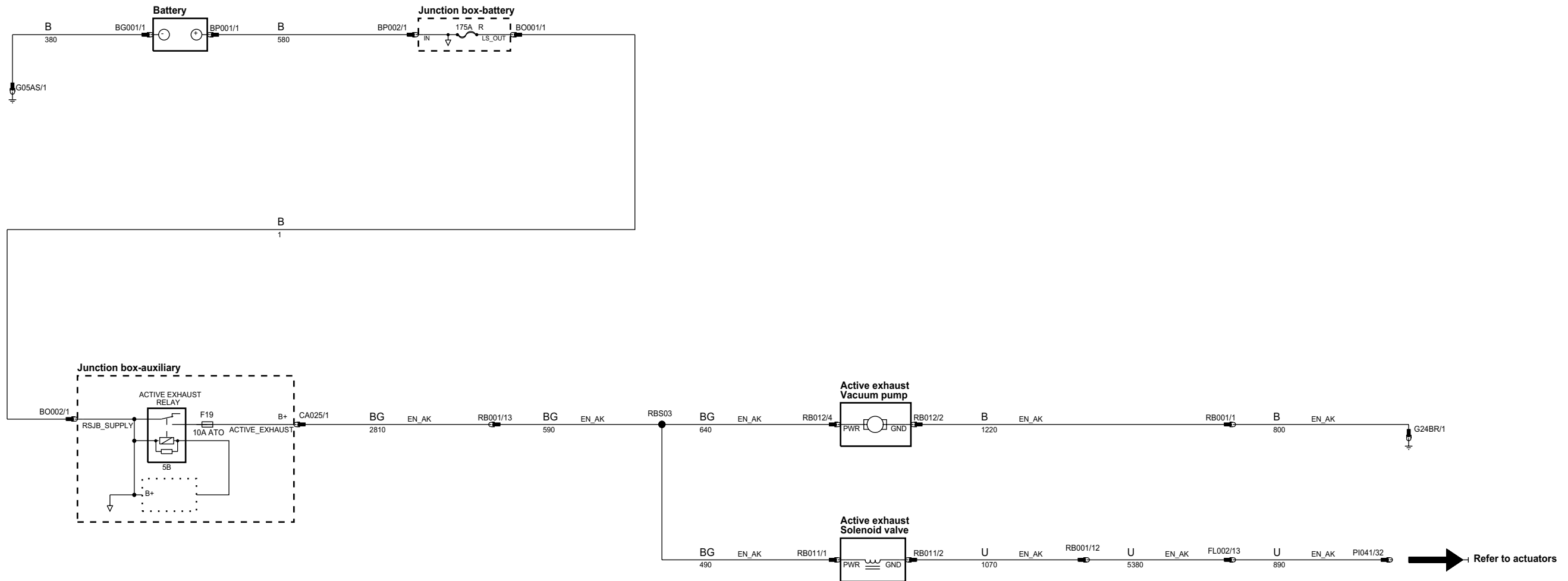
HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011



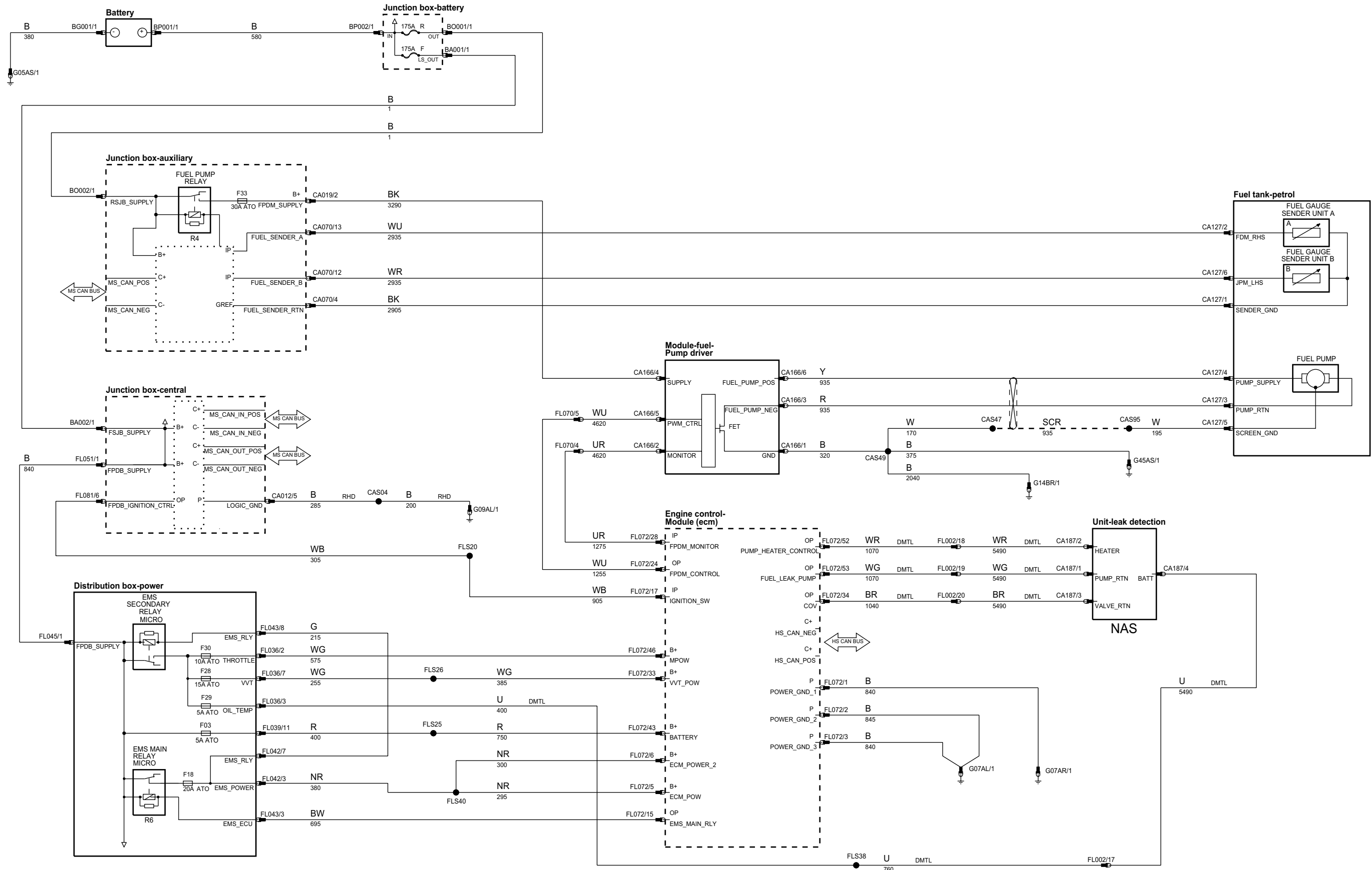
phcw83-70035-e-a4



PI041 = C11-P

B+ Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GRES Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

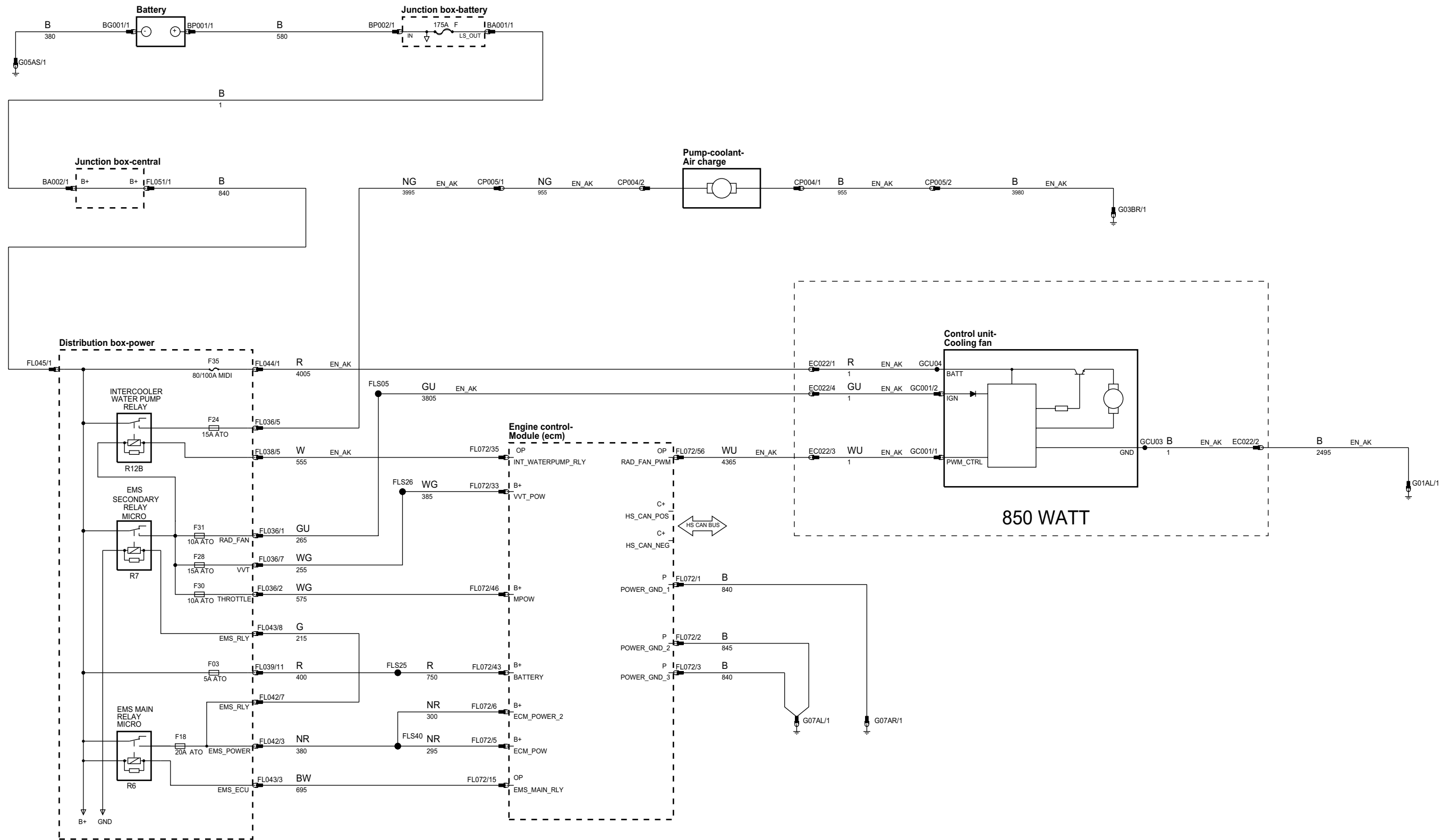
phcw83-70035-12-04



<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data

VARIANT: Yes  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70033-a2-a4



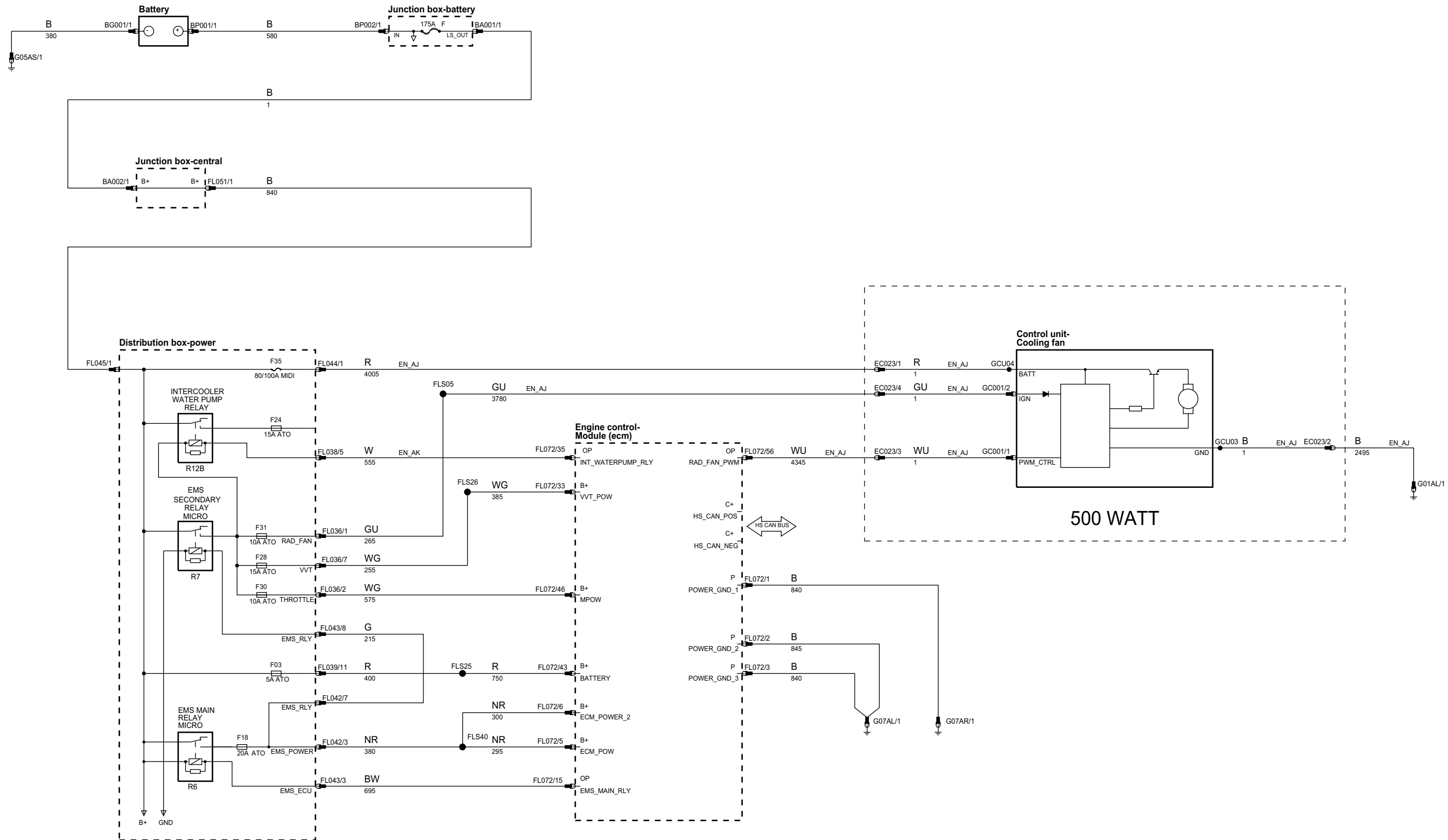
B+ Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

VARIANT: Yes  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

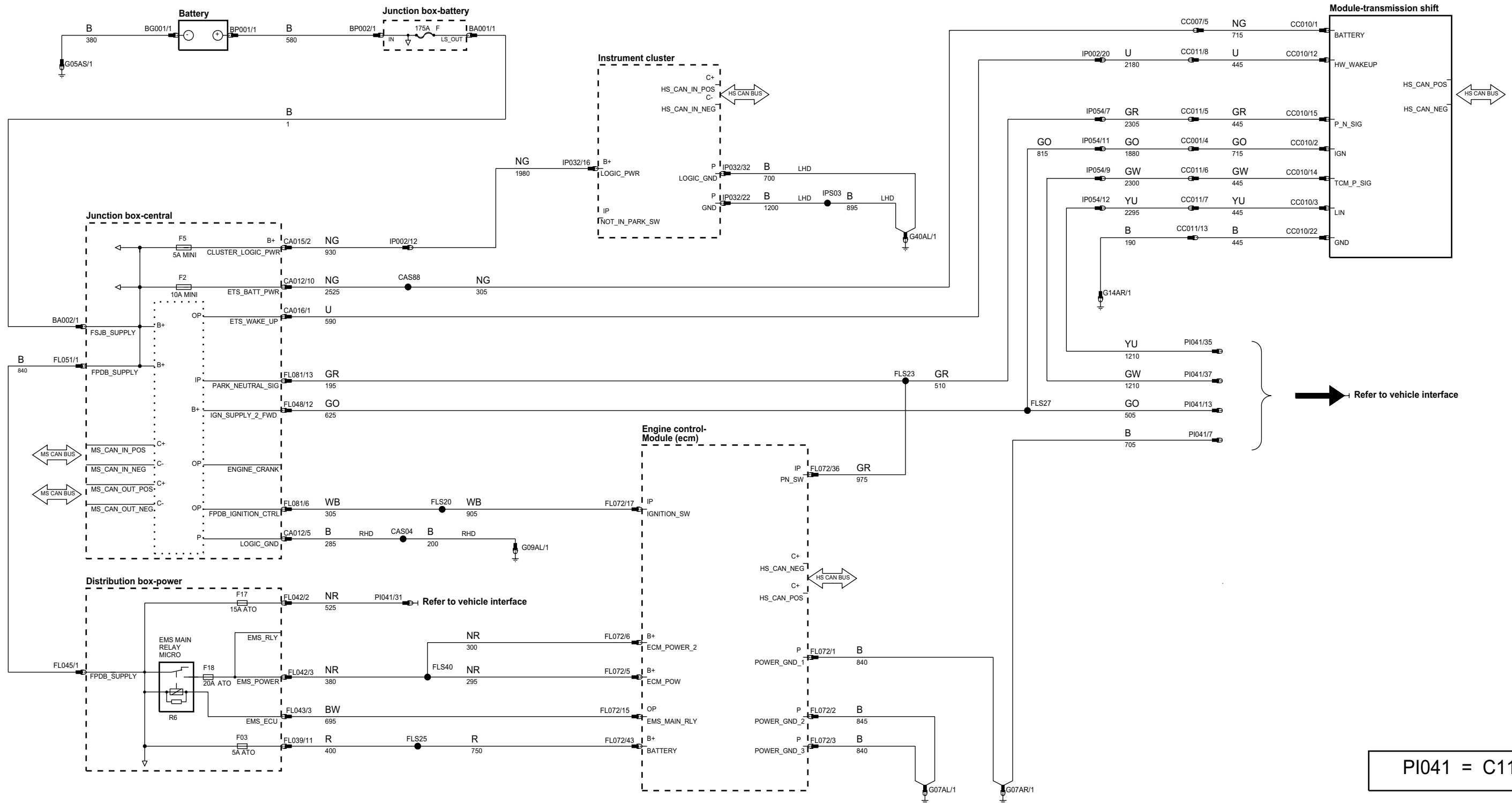
phcw83-70033-a1-a4



<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data

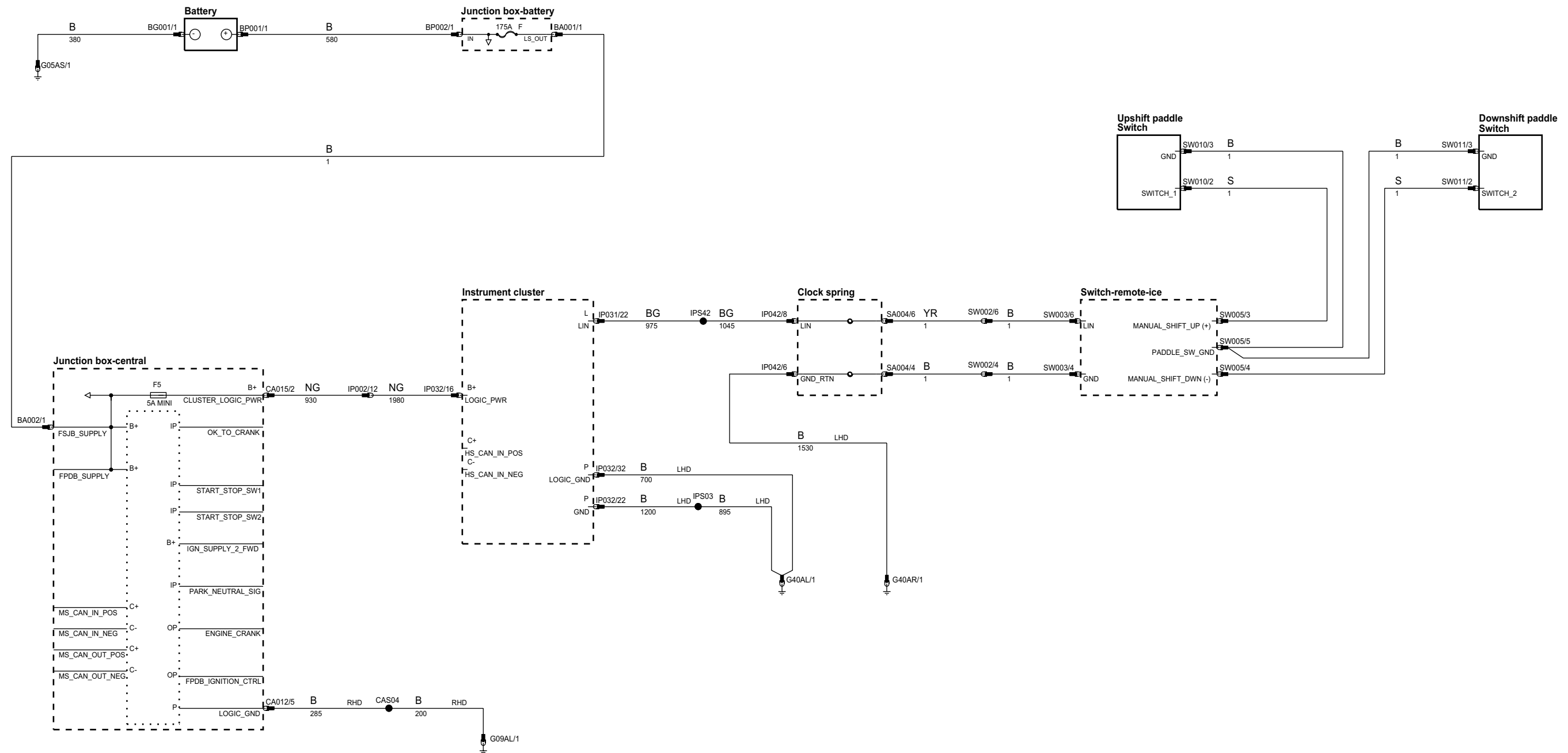
VARIANT: Yes  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70041-a2-a4



PI041 = C11-P

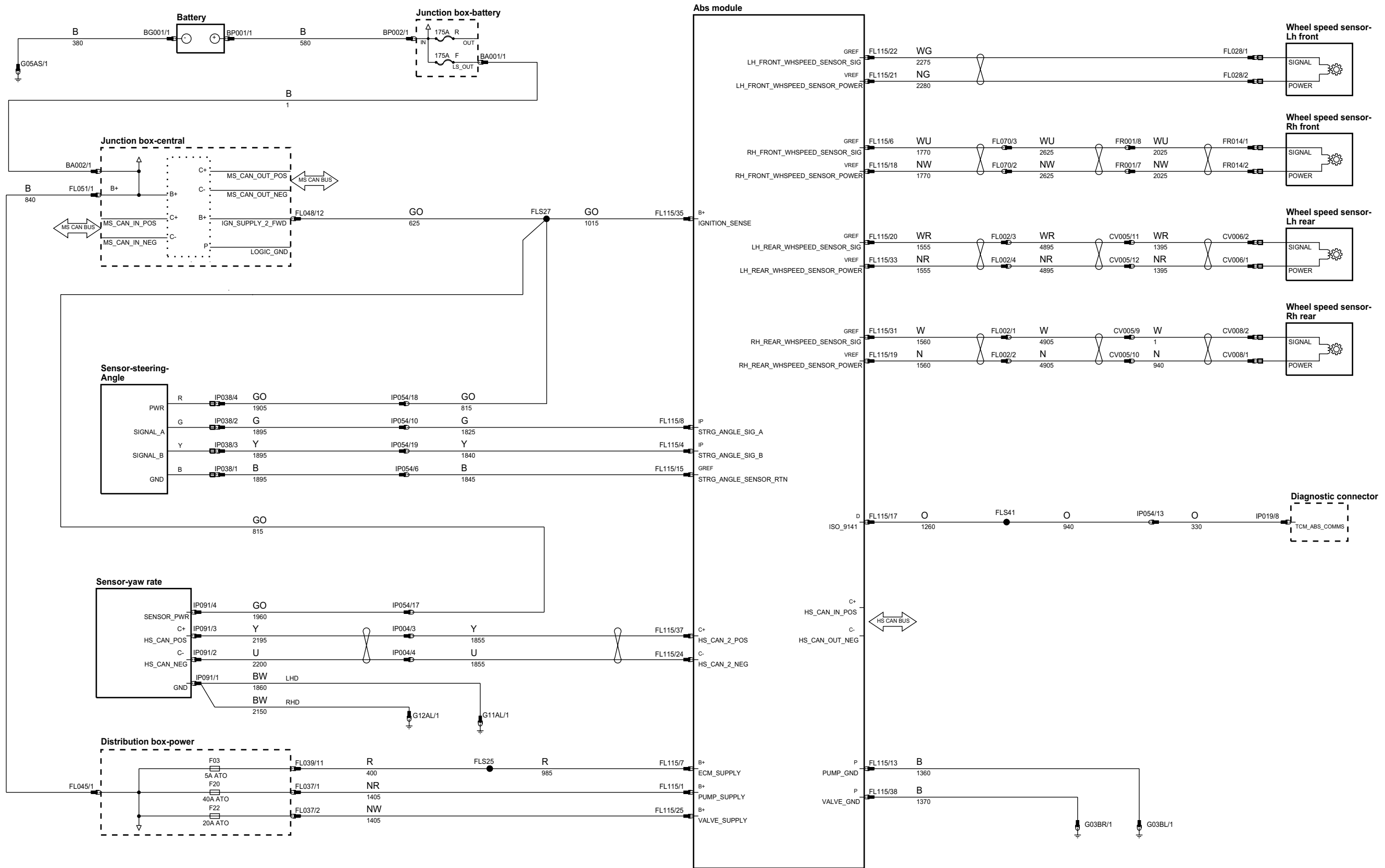
phcw83-70041-a3-a4



<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data

**VARIANT:** All  
**VIN RANGE:** All  
**DATE OF ISSUE:** 07/2011

phcw83-70165-a2-a4



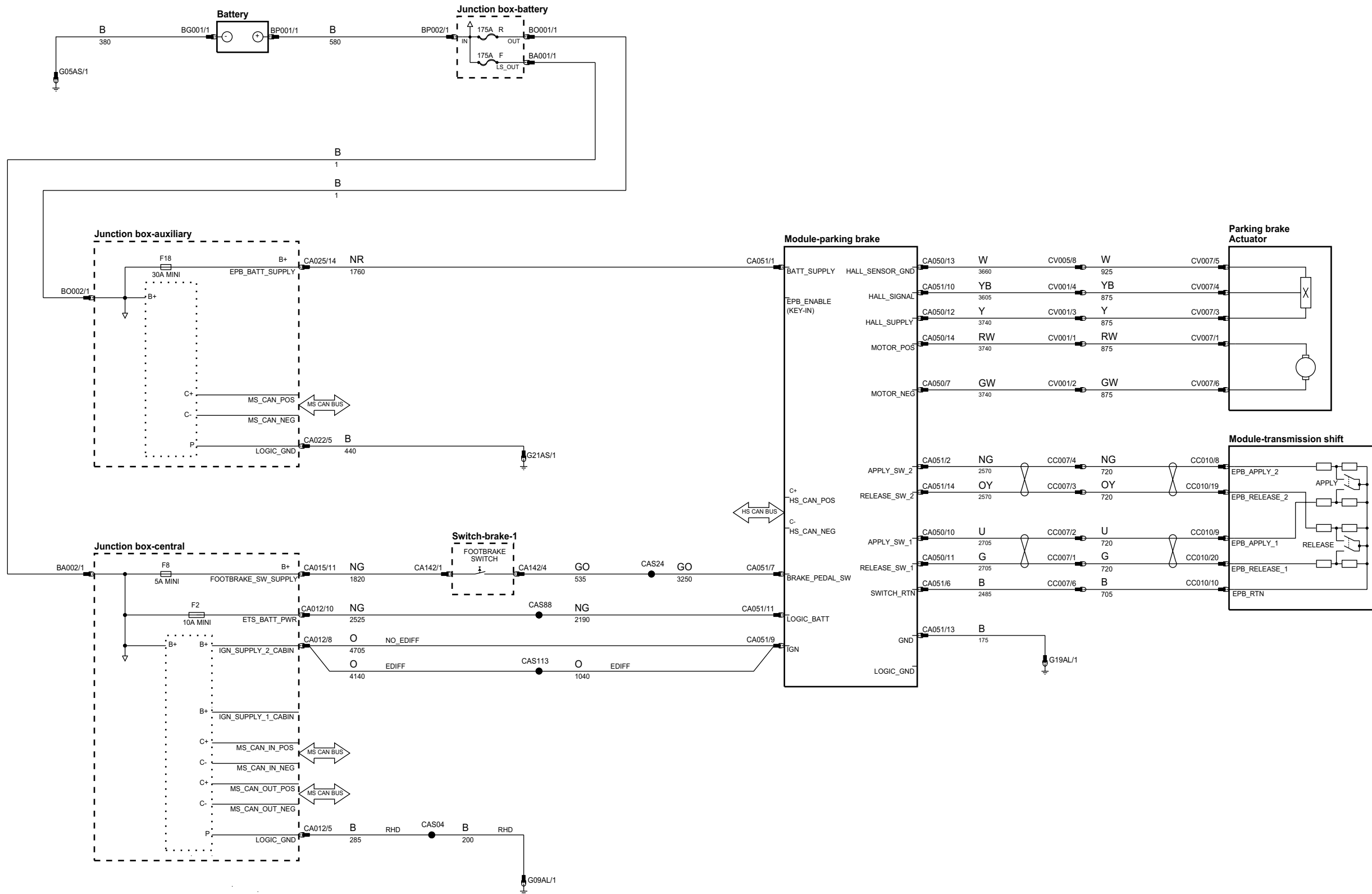
B- Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70167-b-a4

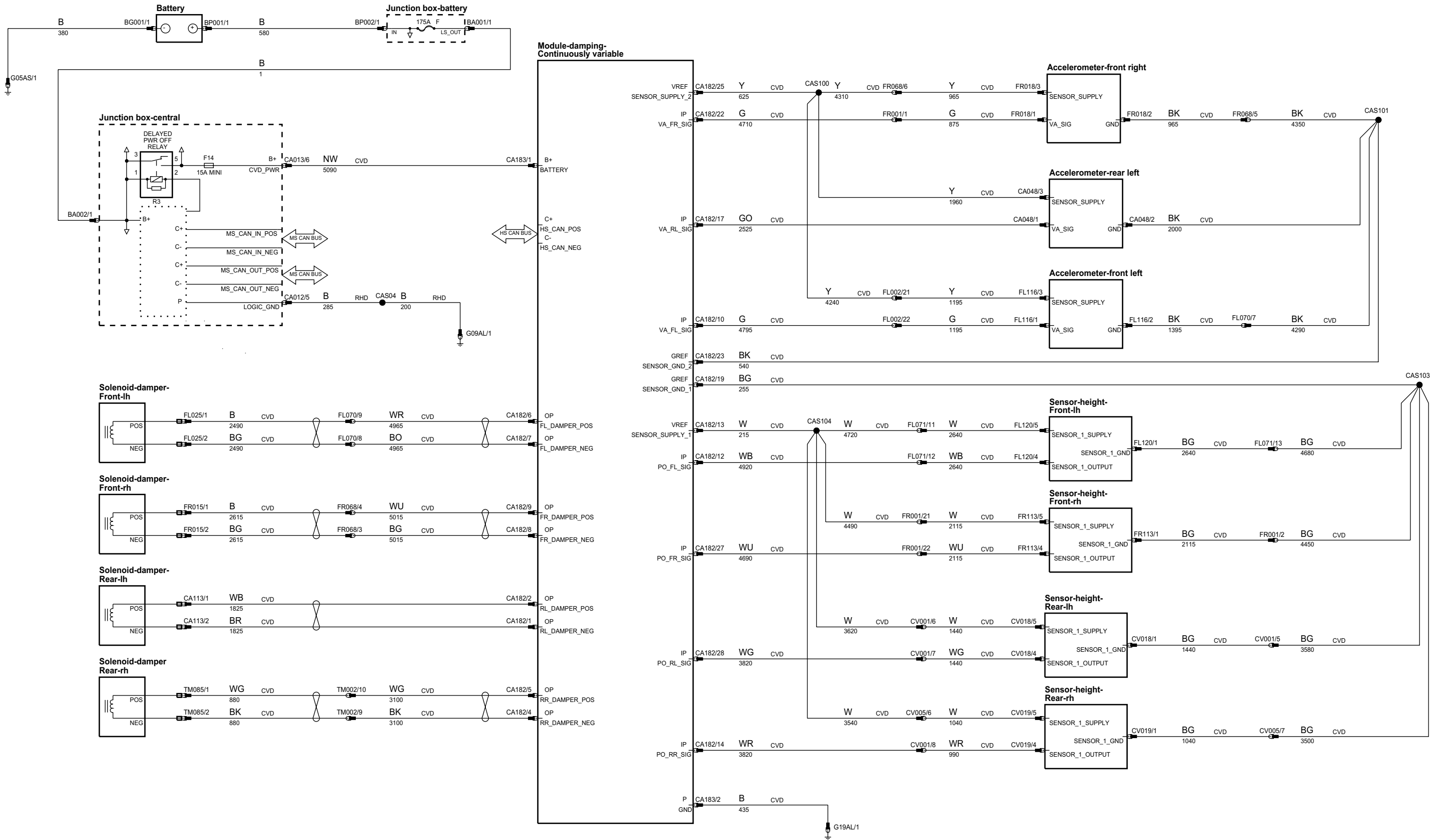


<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

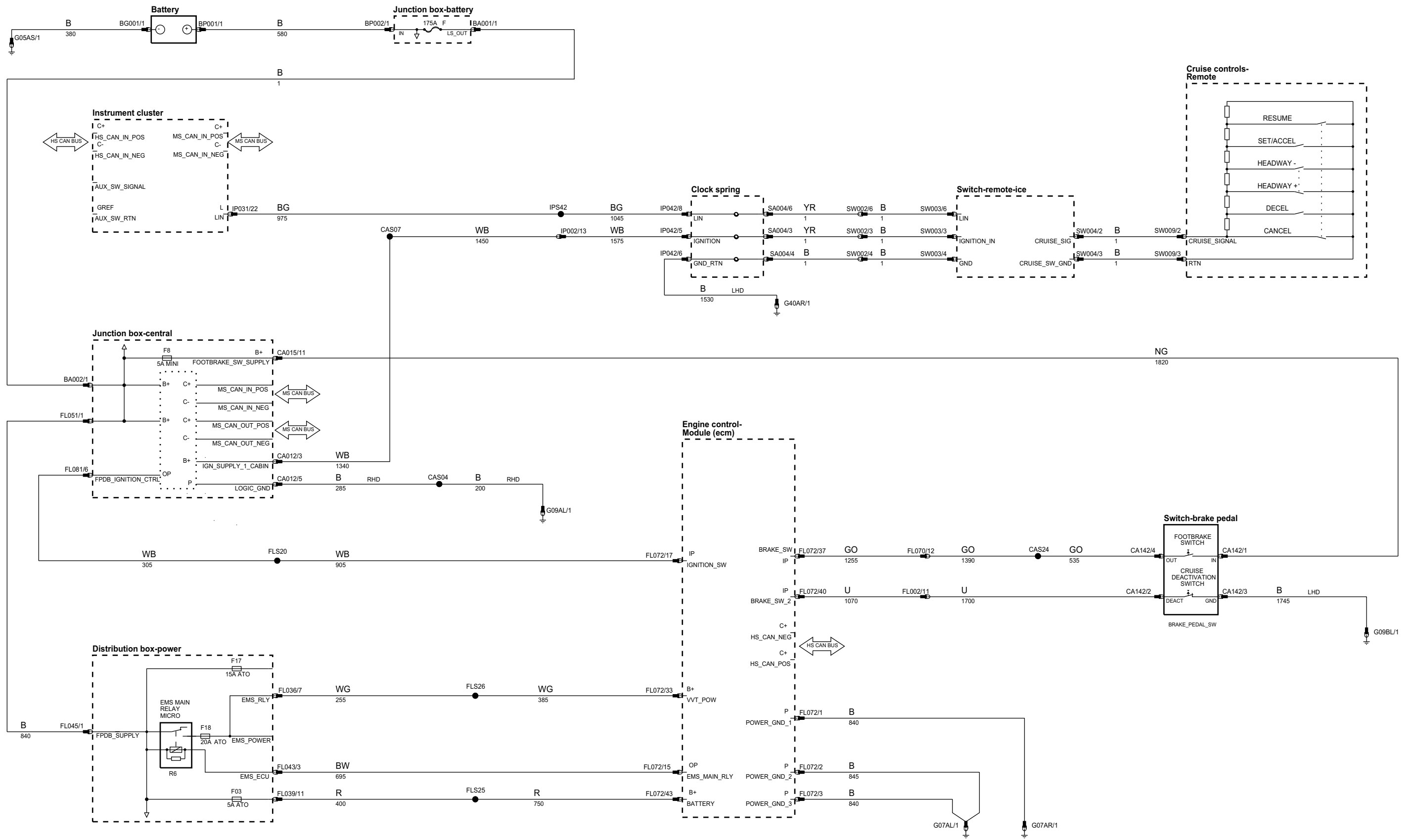


phcw83-70181-a2-a4



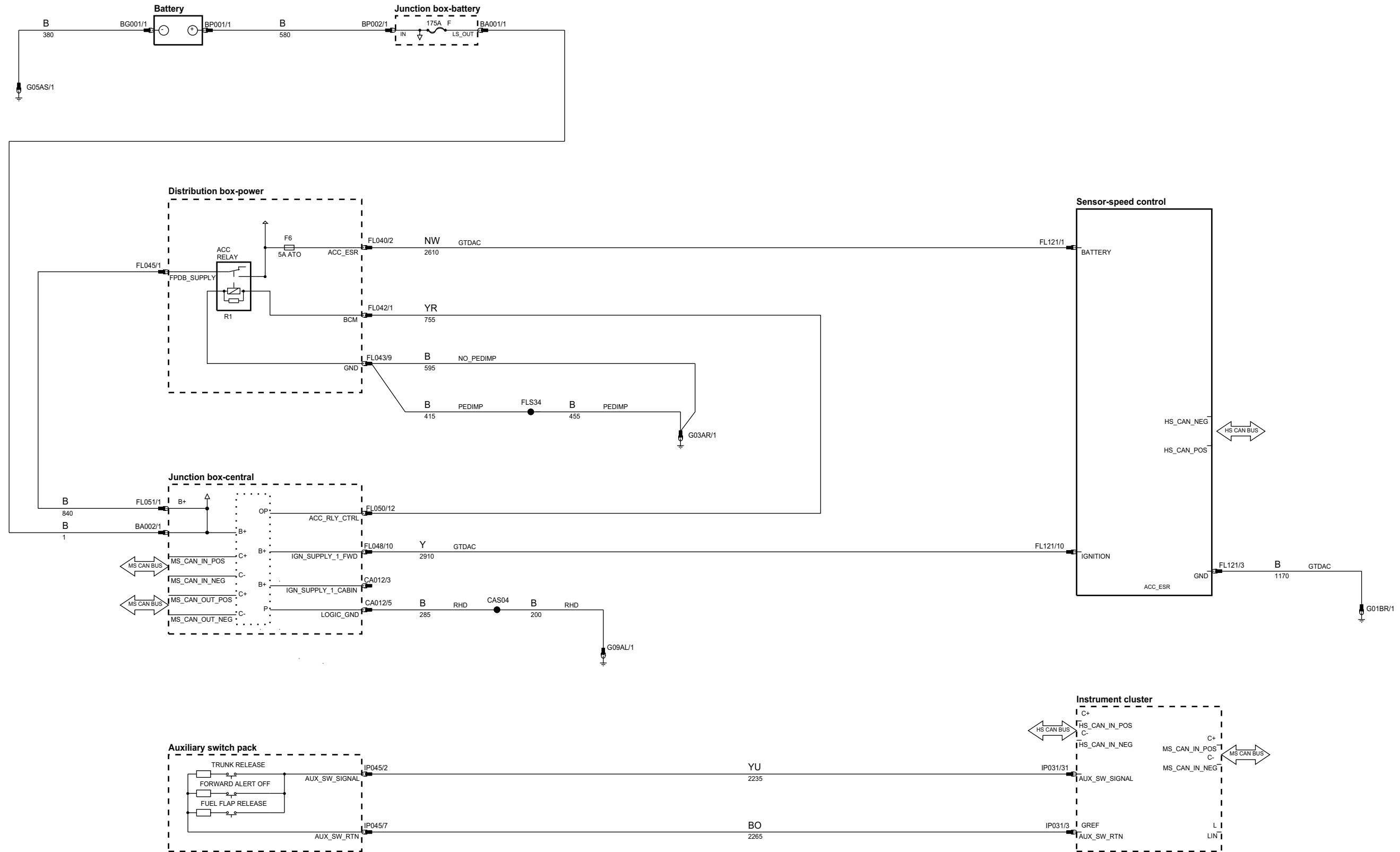
<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GREF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70190-a2-a4



<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GREF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70486-a-a4



B- Battery Voltage  
P- Power Ground

IP Input  
OP Output

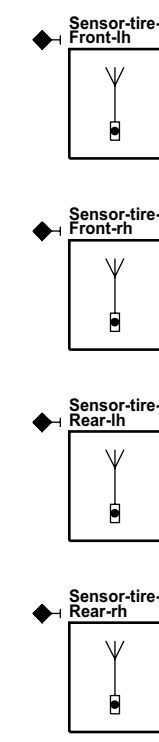
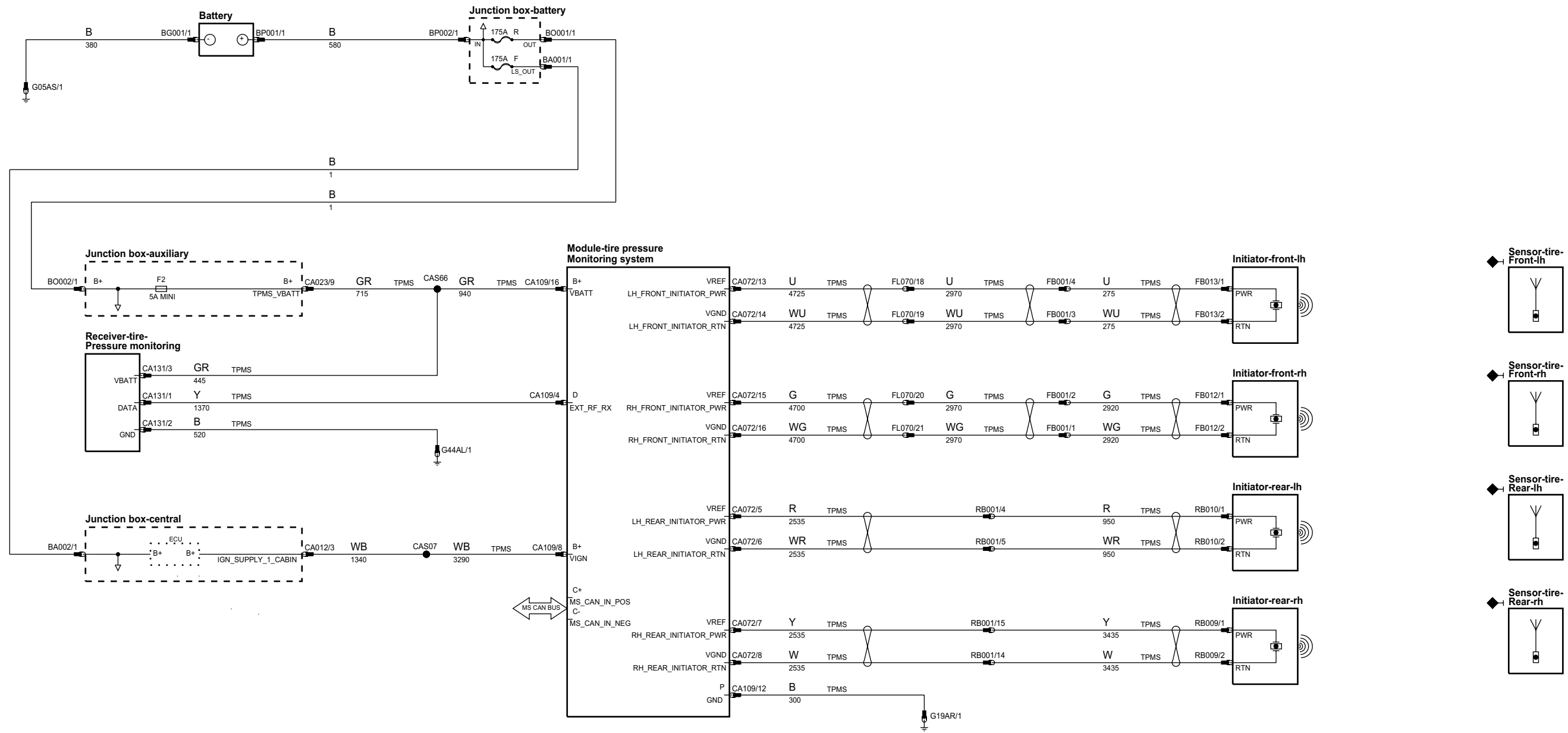
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

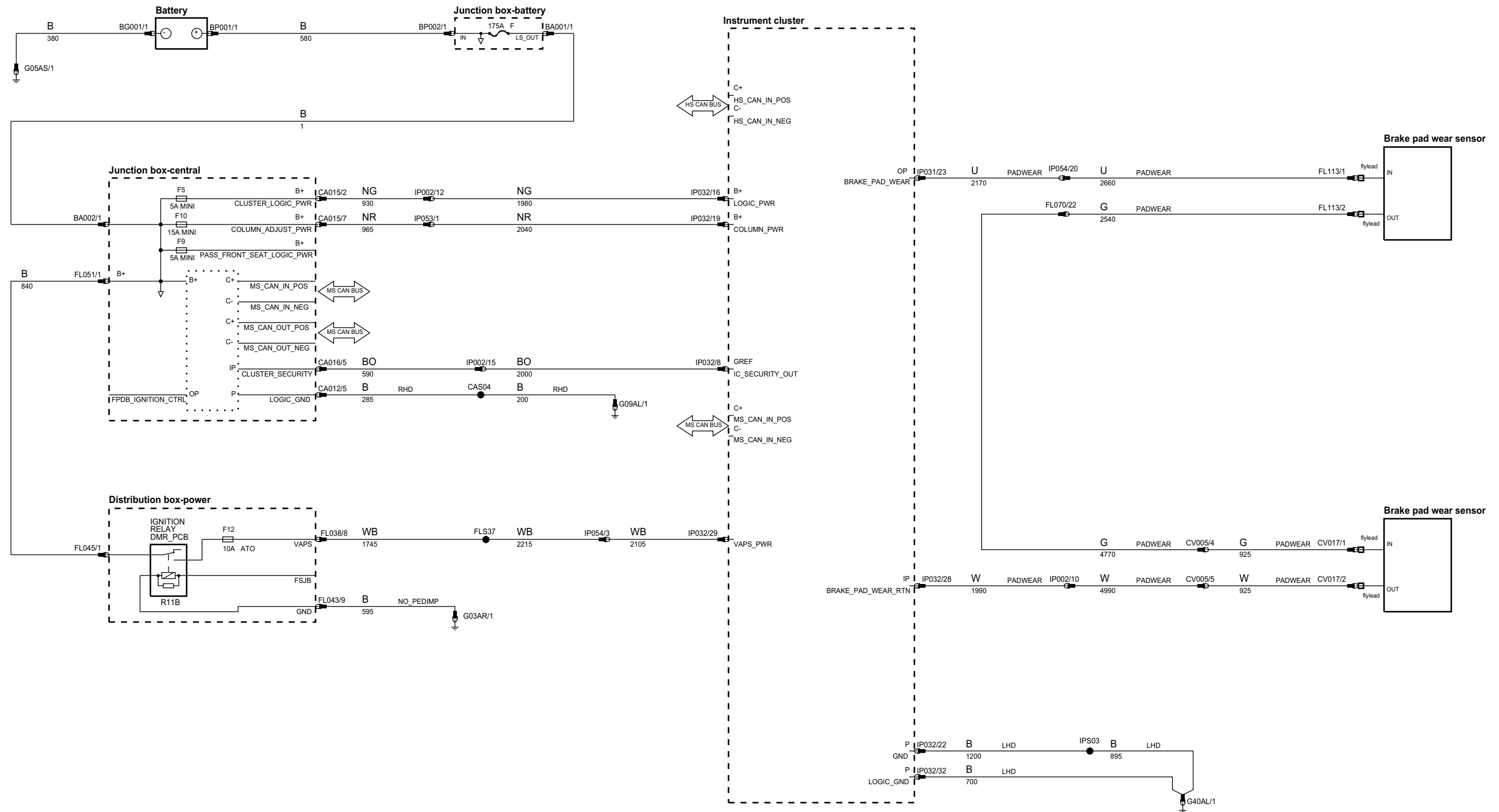
VARIANT: Yes  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70267-a-a4



<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GR</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70261-a1-a4



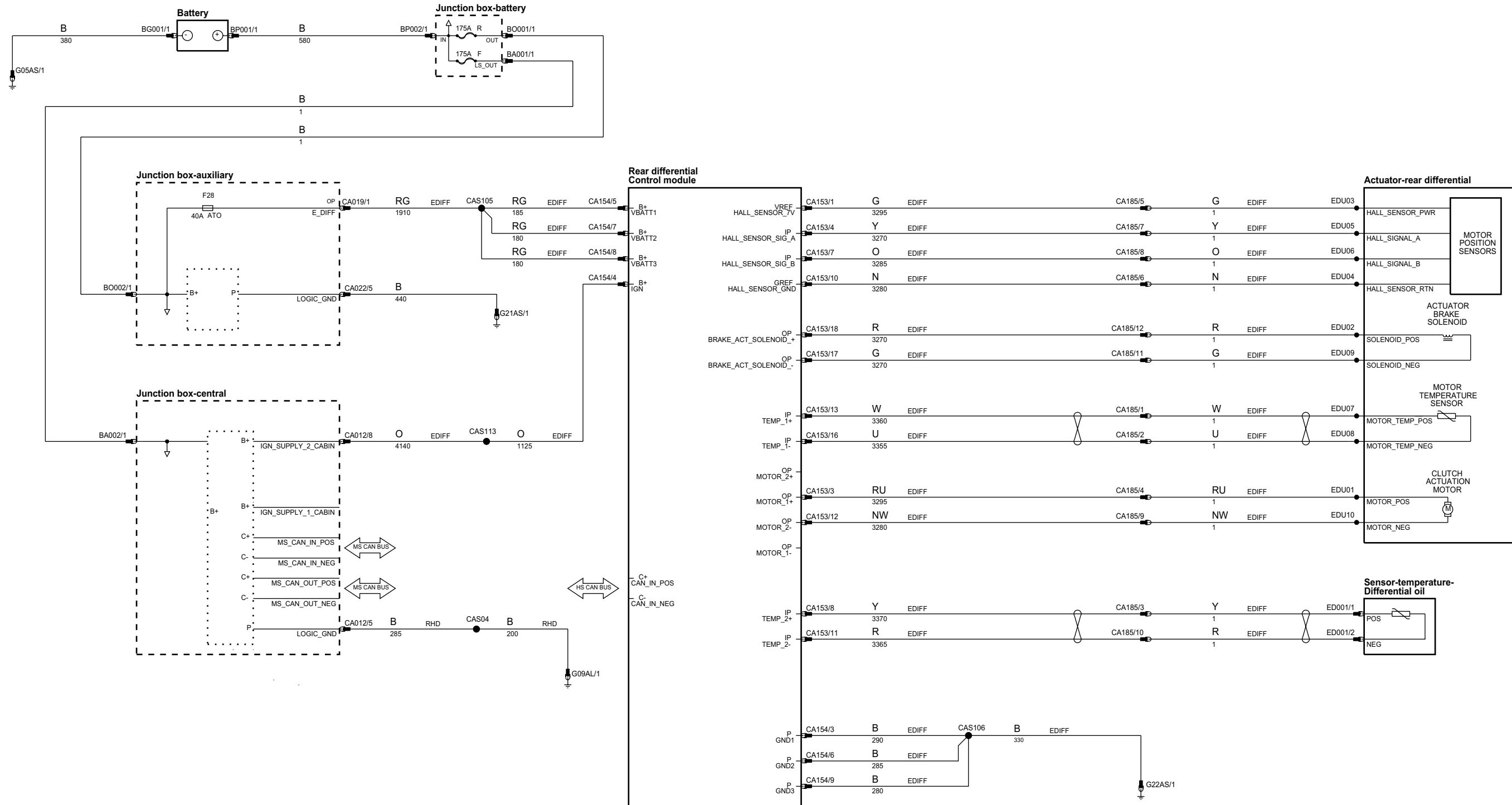
B+ Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

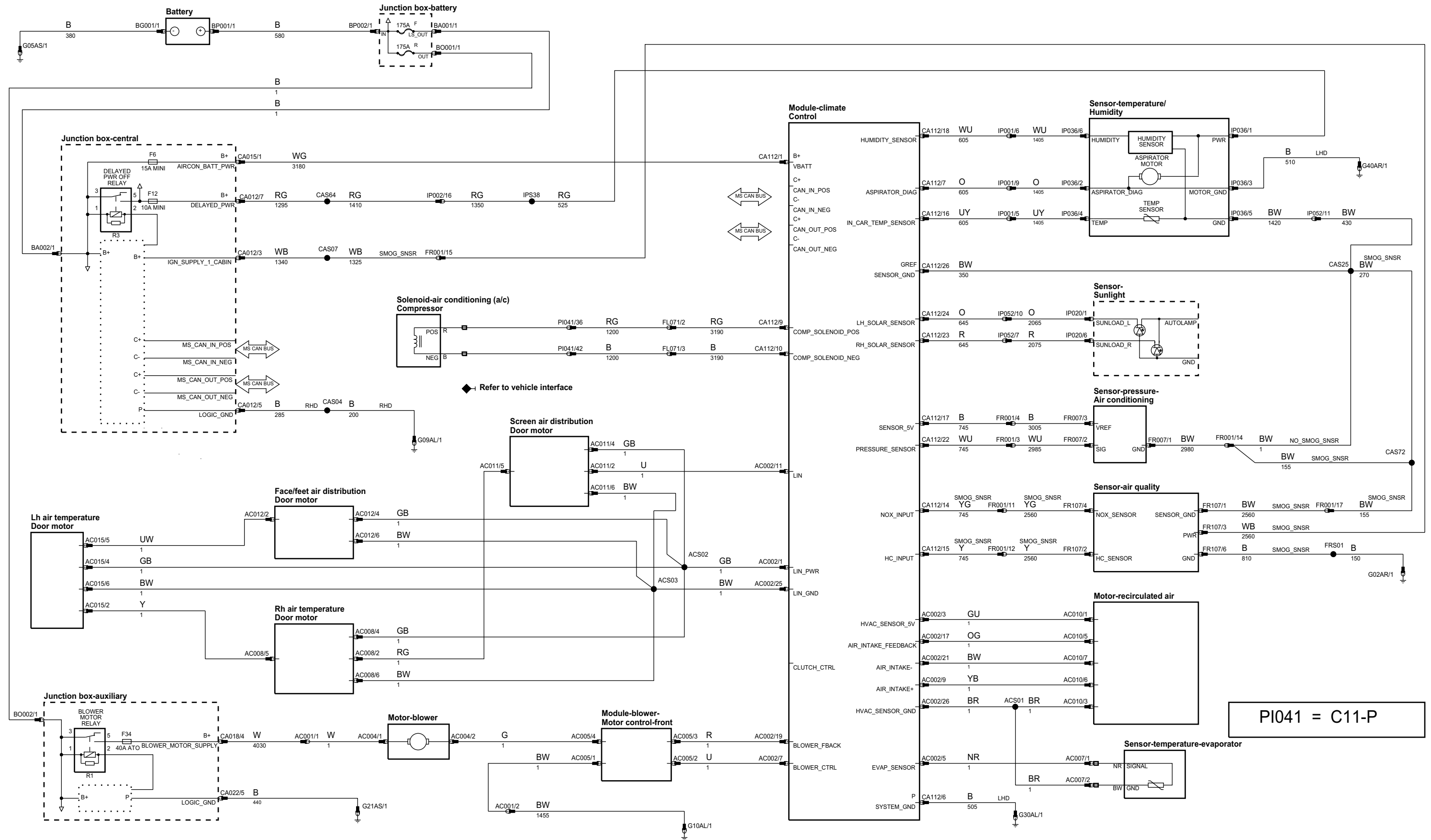
VARIANT: Yes  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70046-a1-a4



<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70300-b2-a4

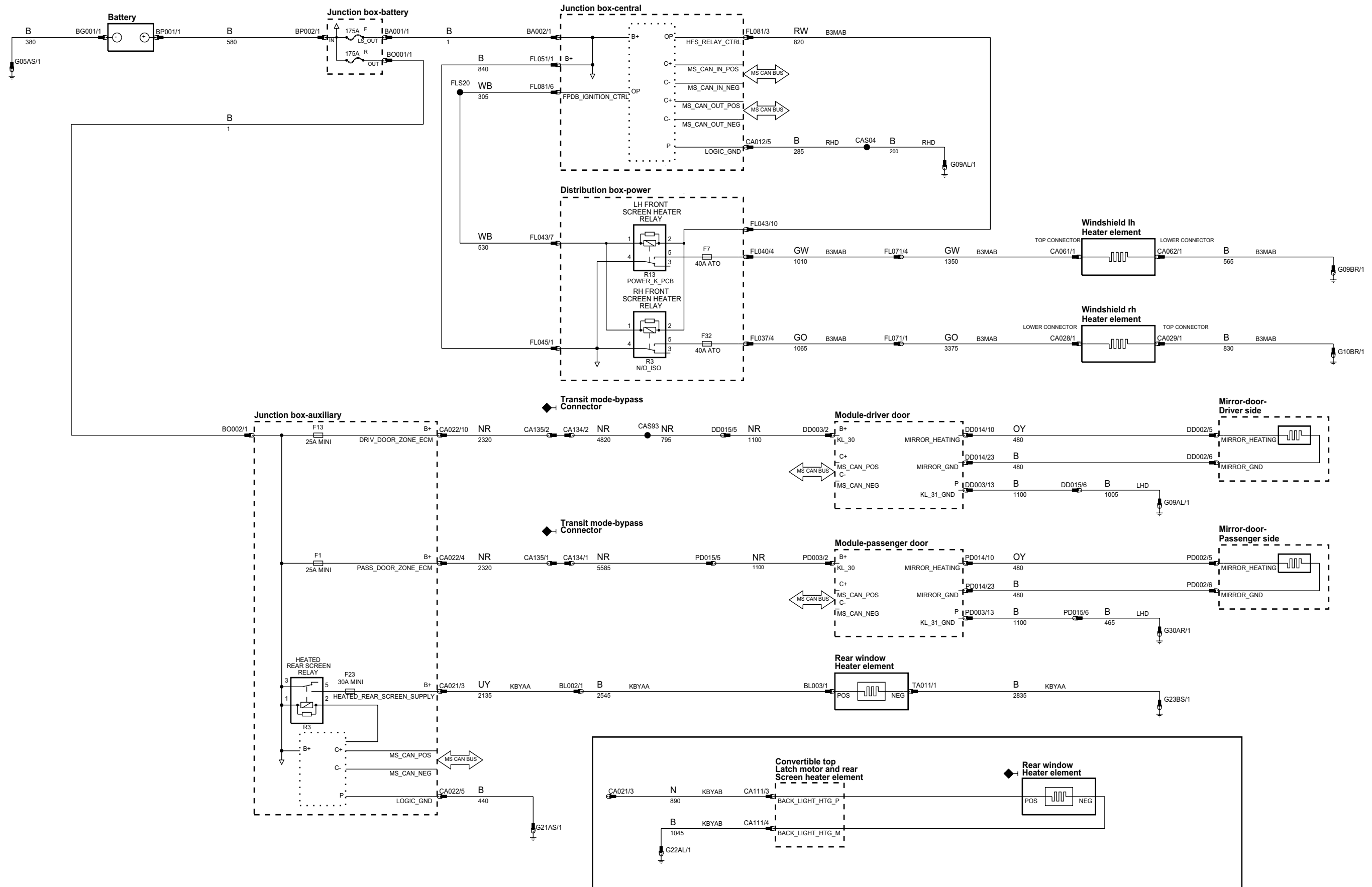


PI041 = C11-P

B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus
P Power Ground	OP Output	GRES Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

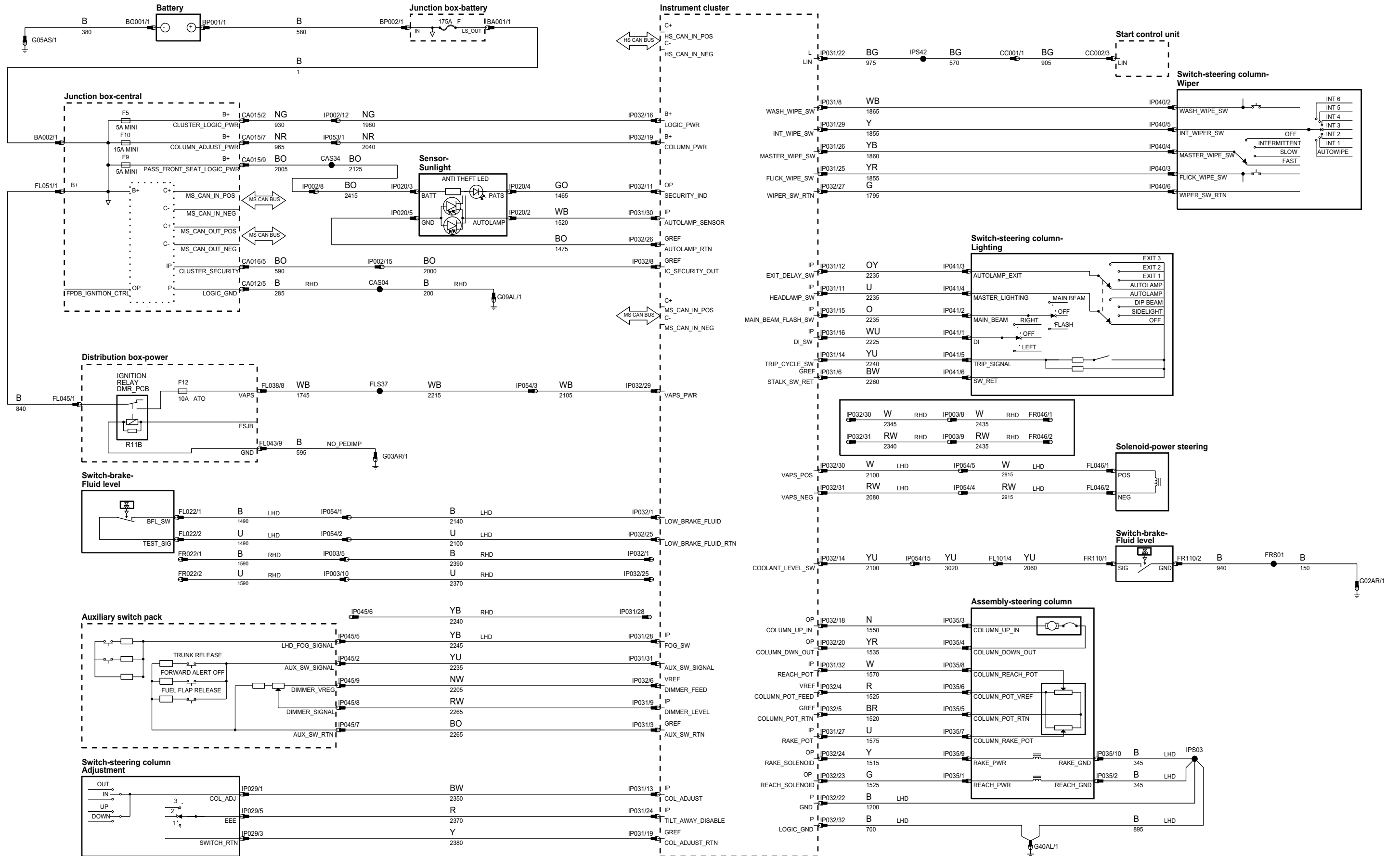
phcw83-70148-a2-a4



<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All <b>VIN RANGE:</b> All <b>DATE OF ISSUE:</b> 07/2011
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	

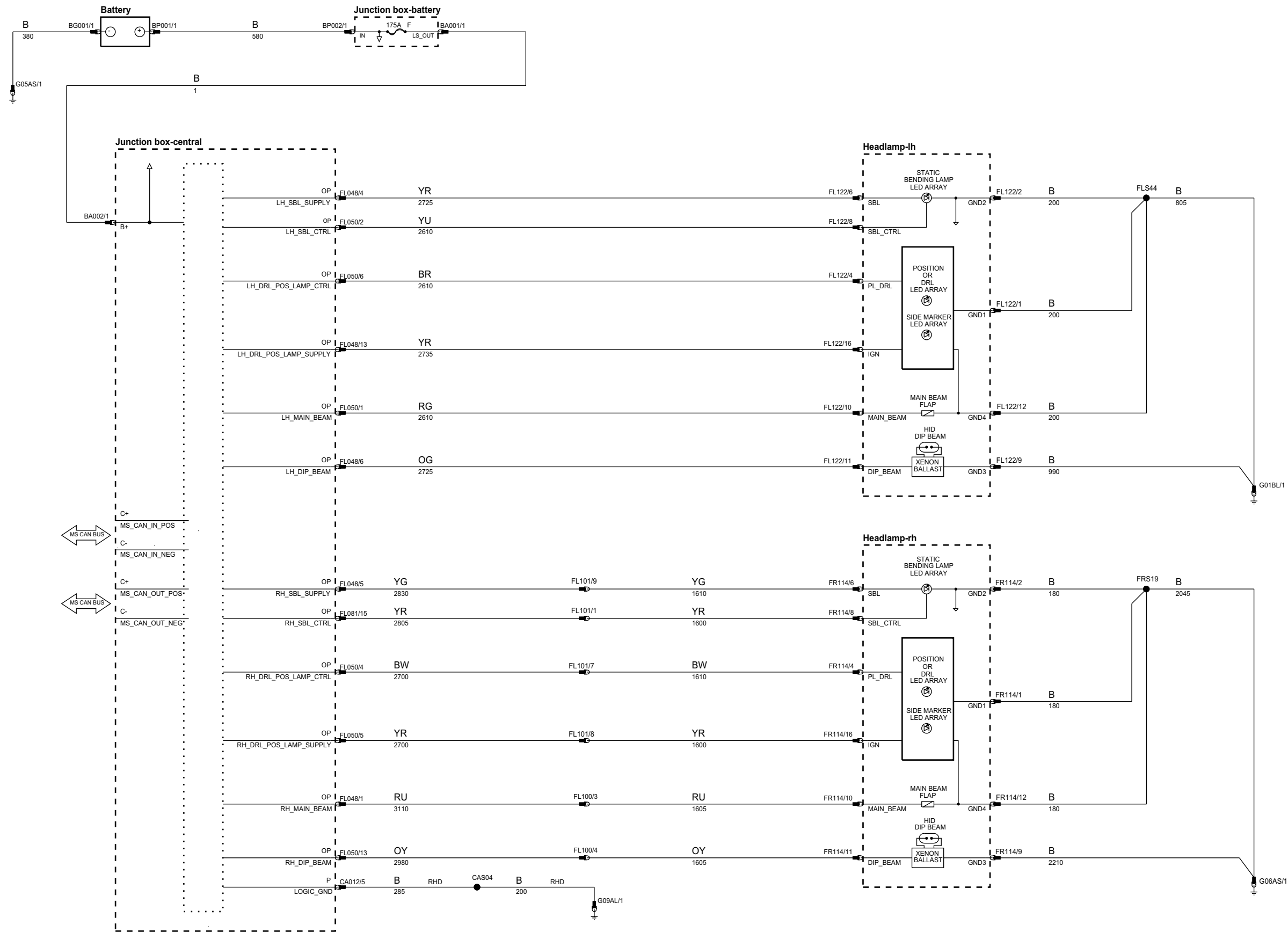


phcw83-70210-a-4



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GRES Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phcw83-70061-b-a4



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

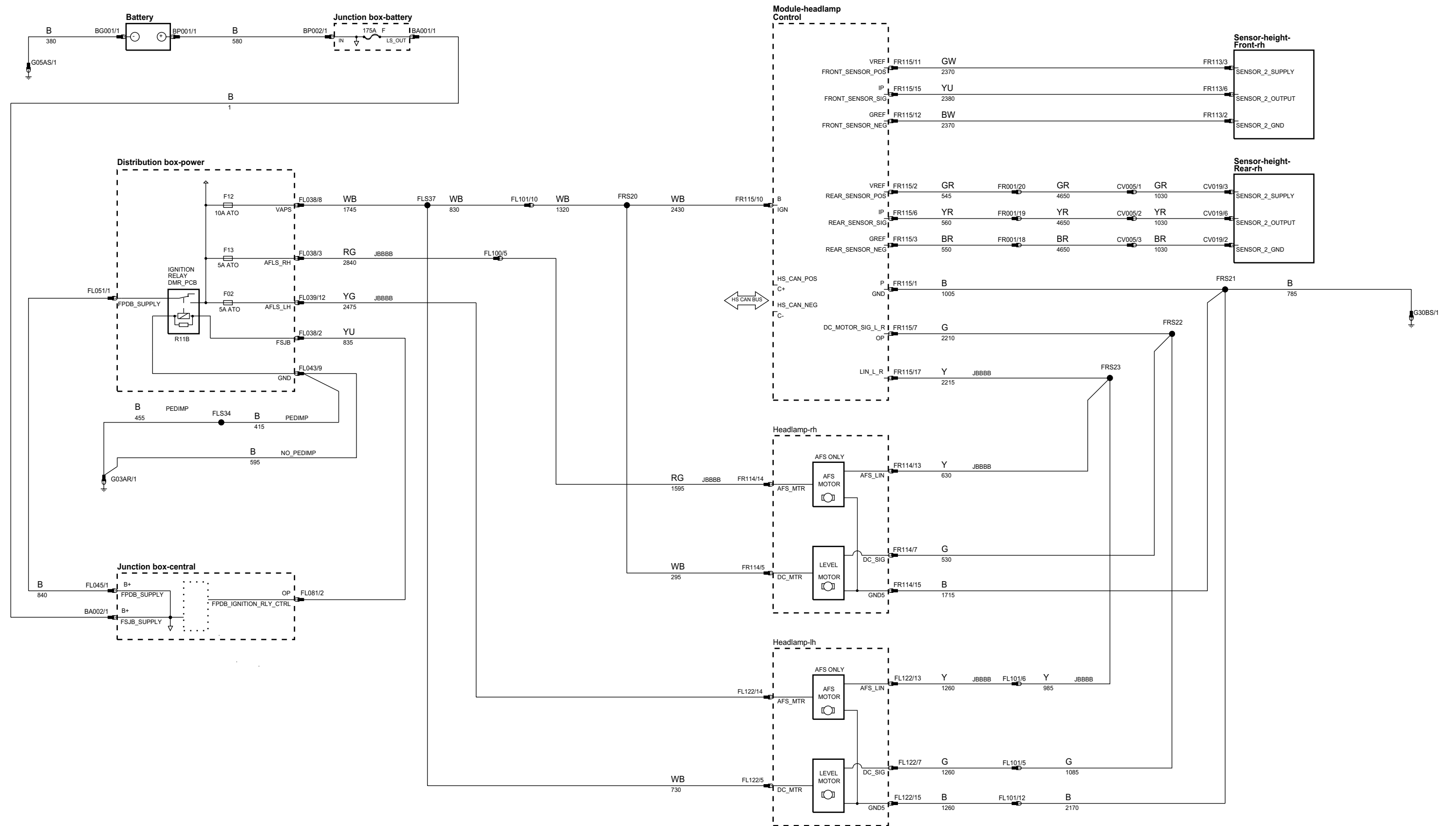
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

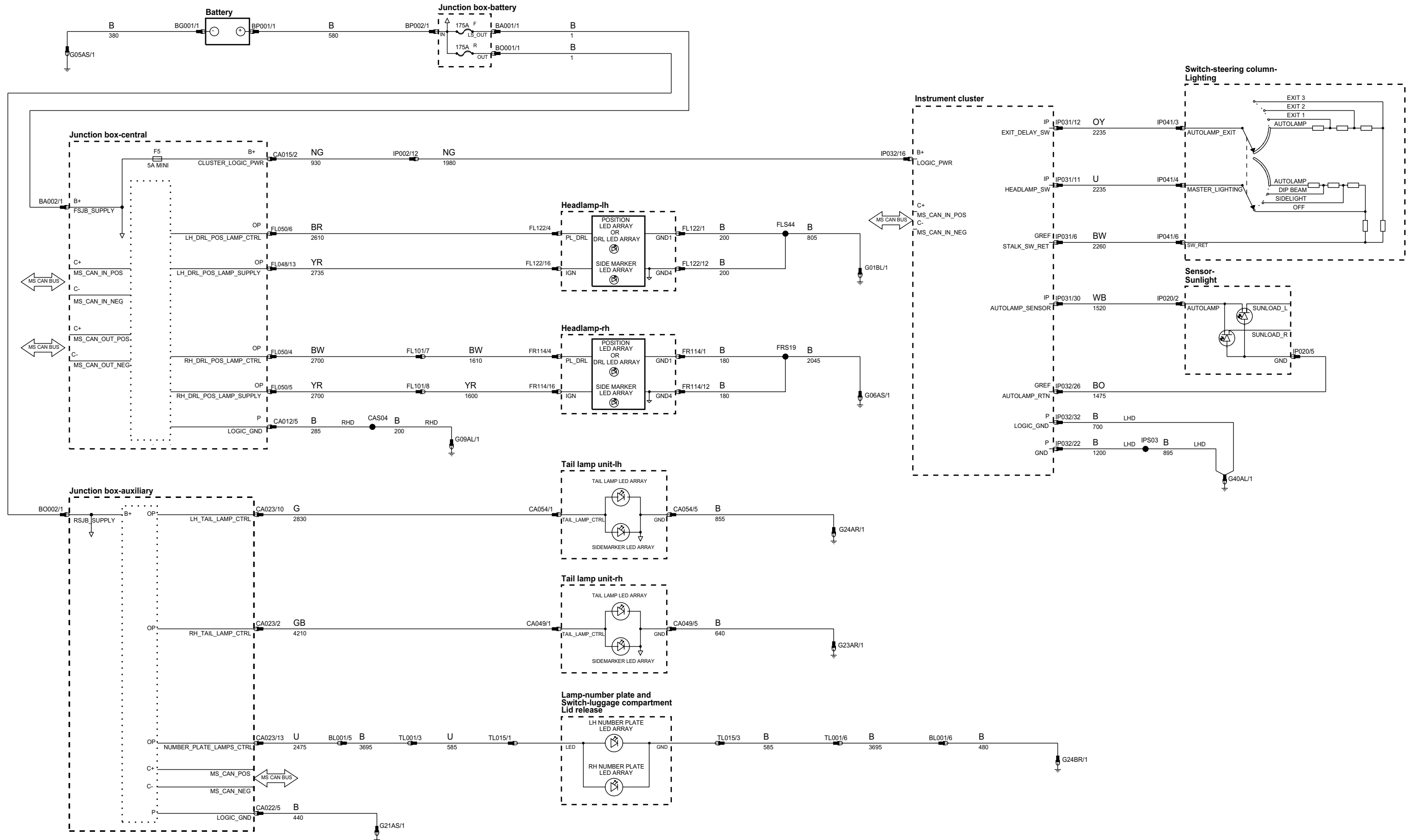
VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70066-b-a4



<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GREF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

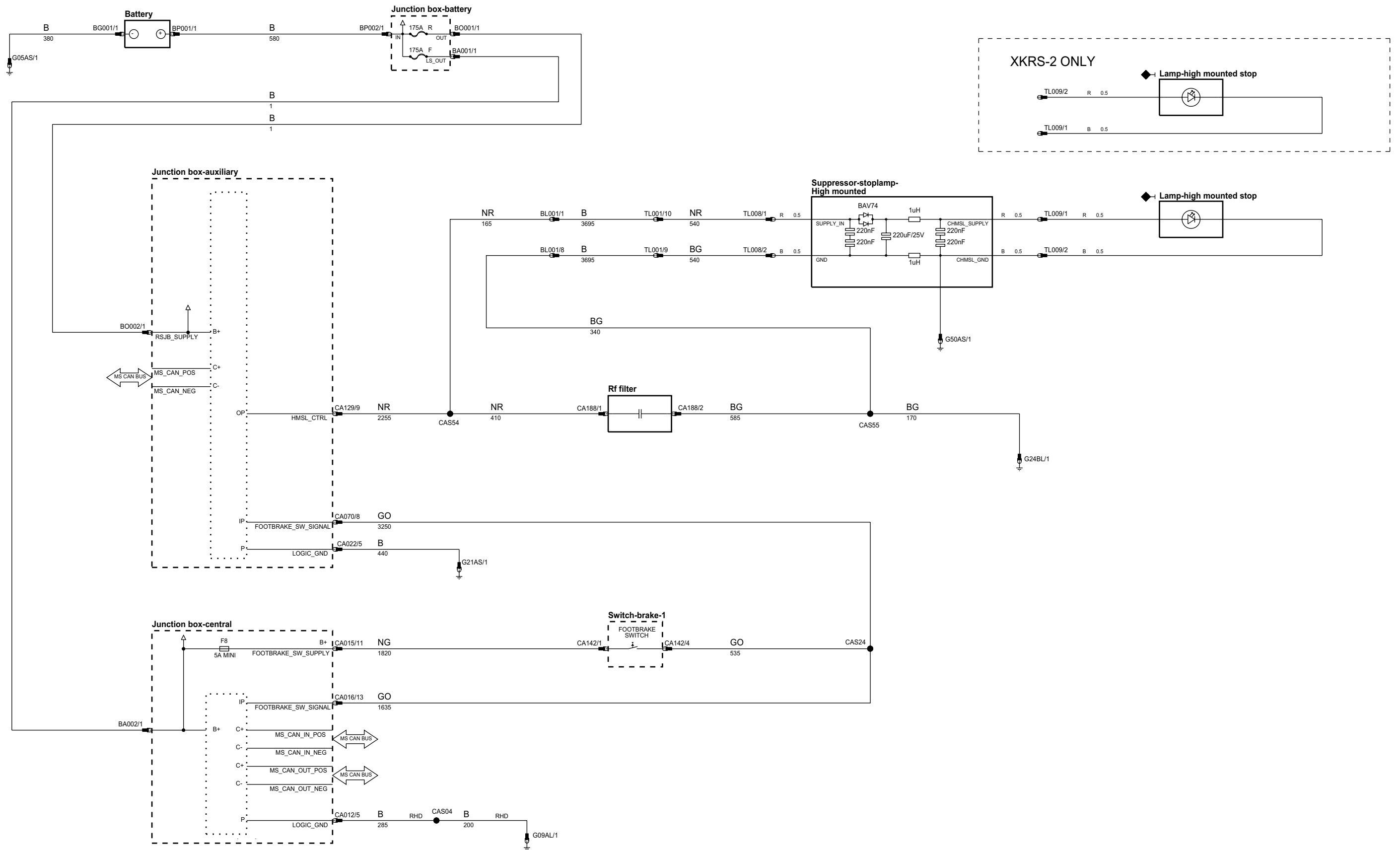
phcw83-70060-d-44



<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRESF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data

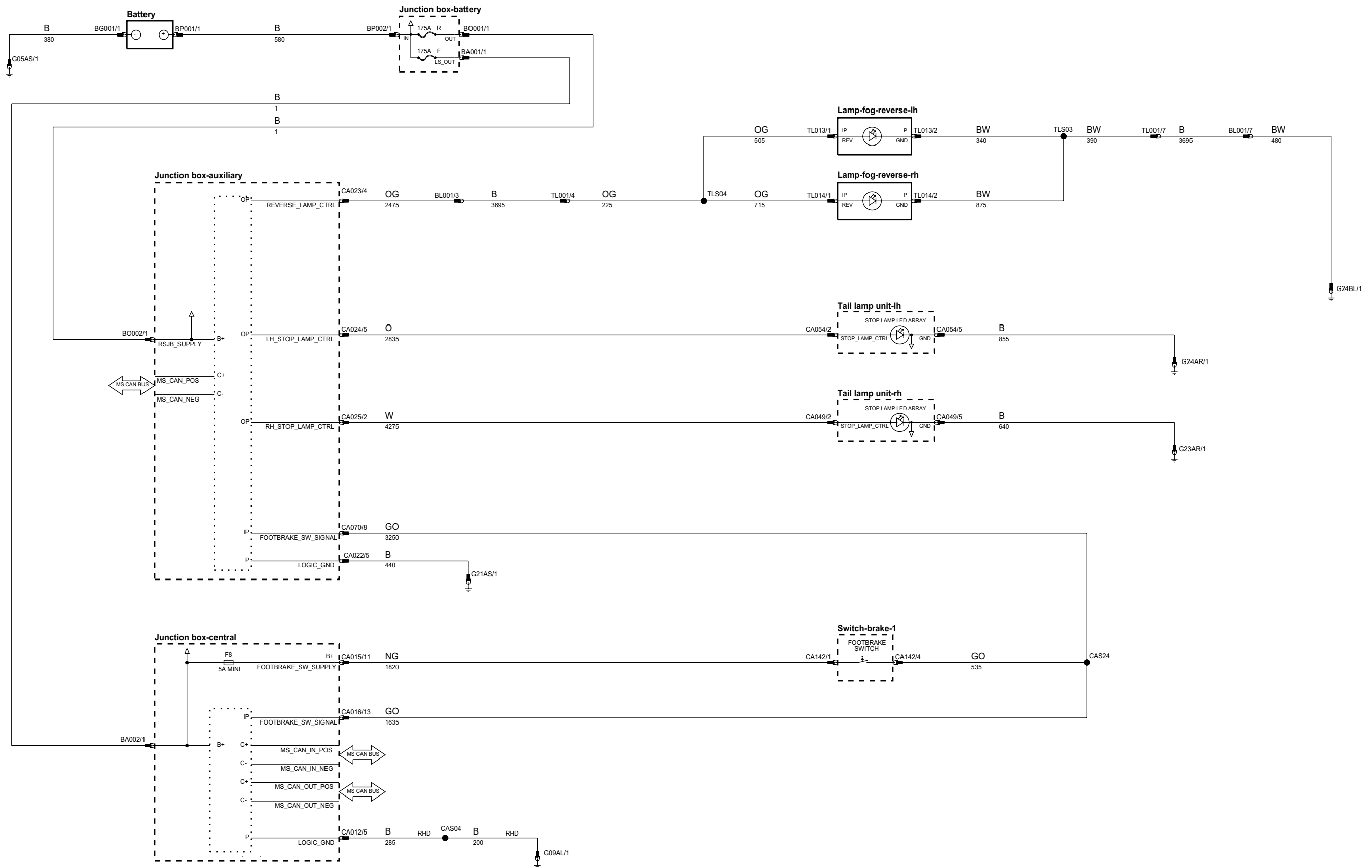
VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70060-c-a4



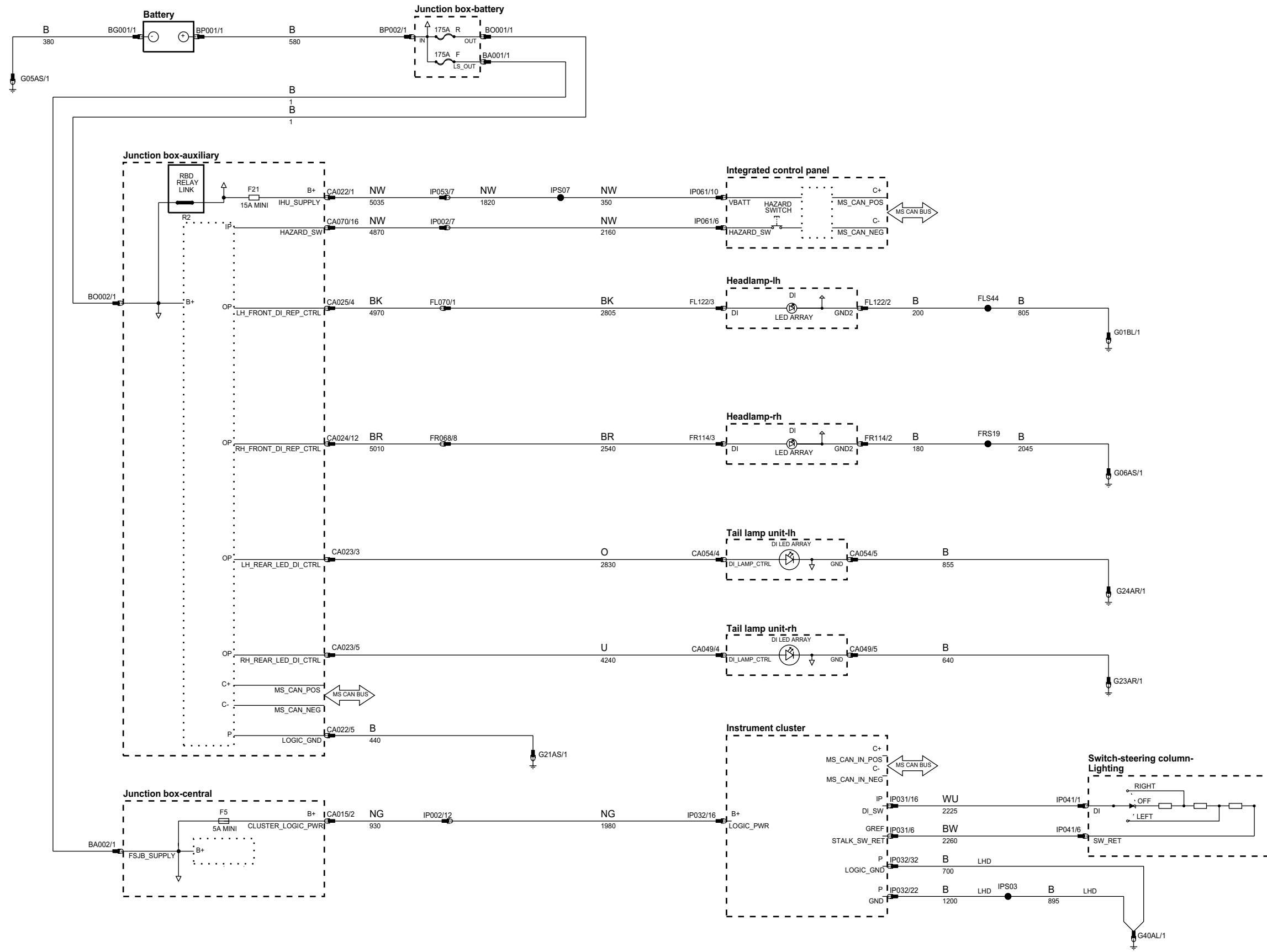
B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GRES Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phcw83-70060-b-a4



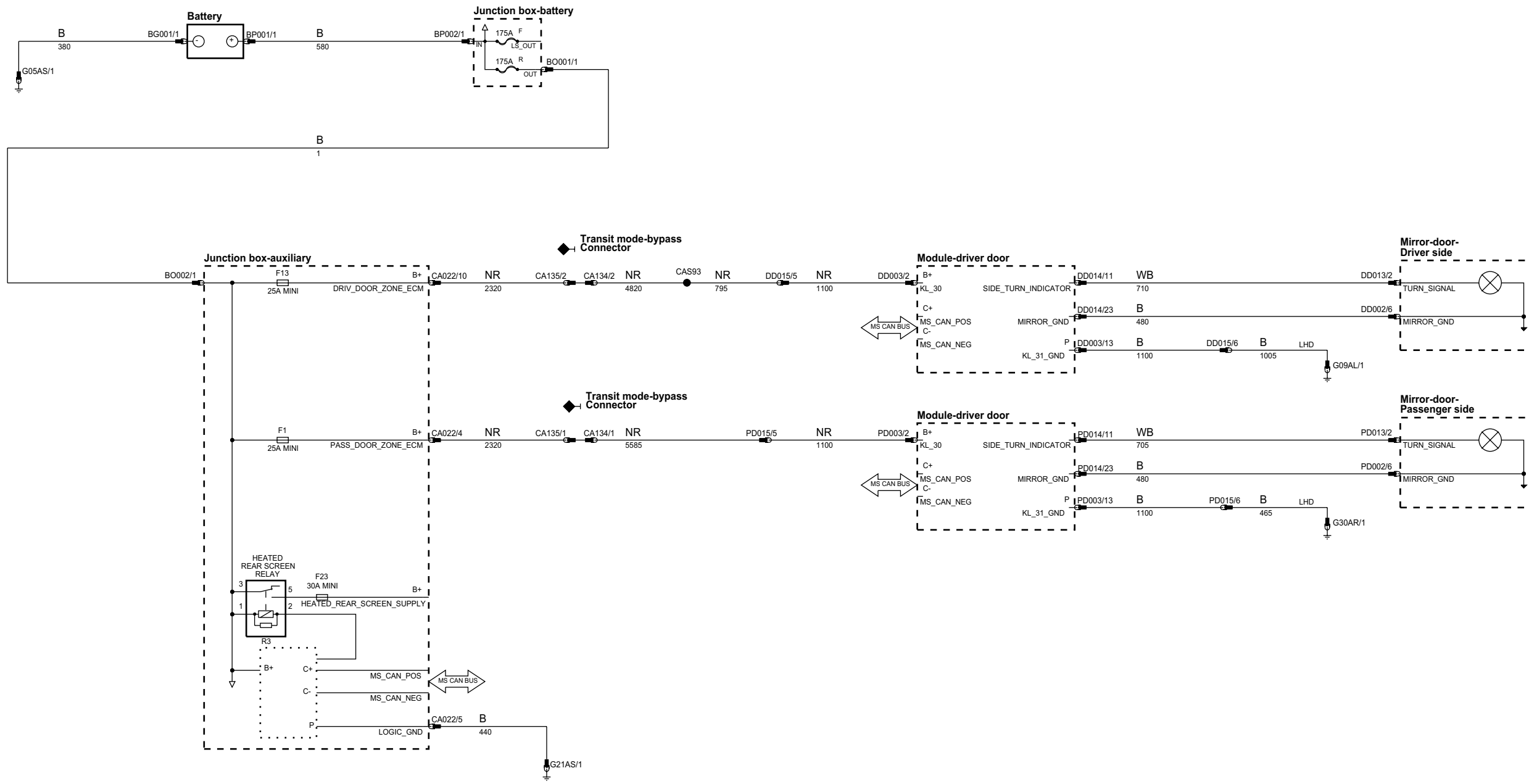
<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70080-b-a4



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GREF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phcw83-70080-c-a4

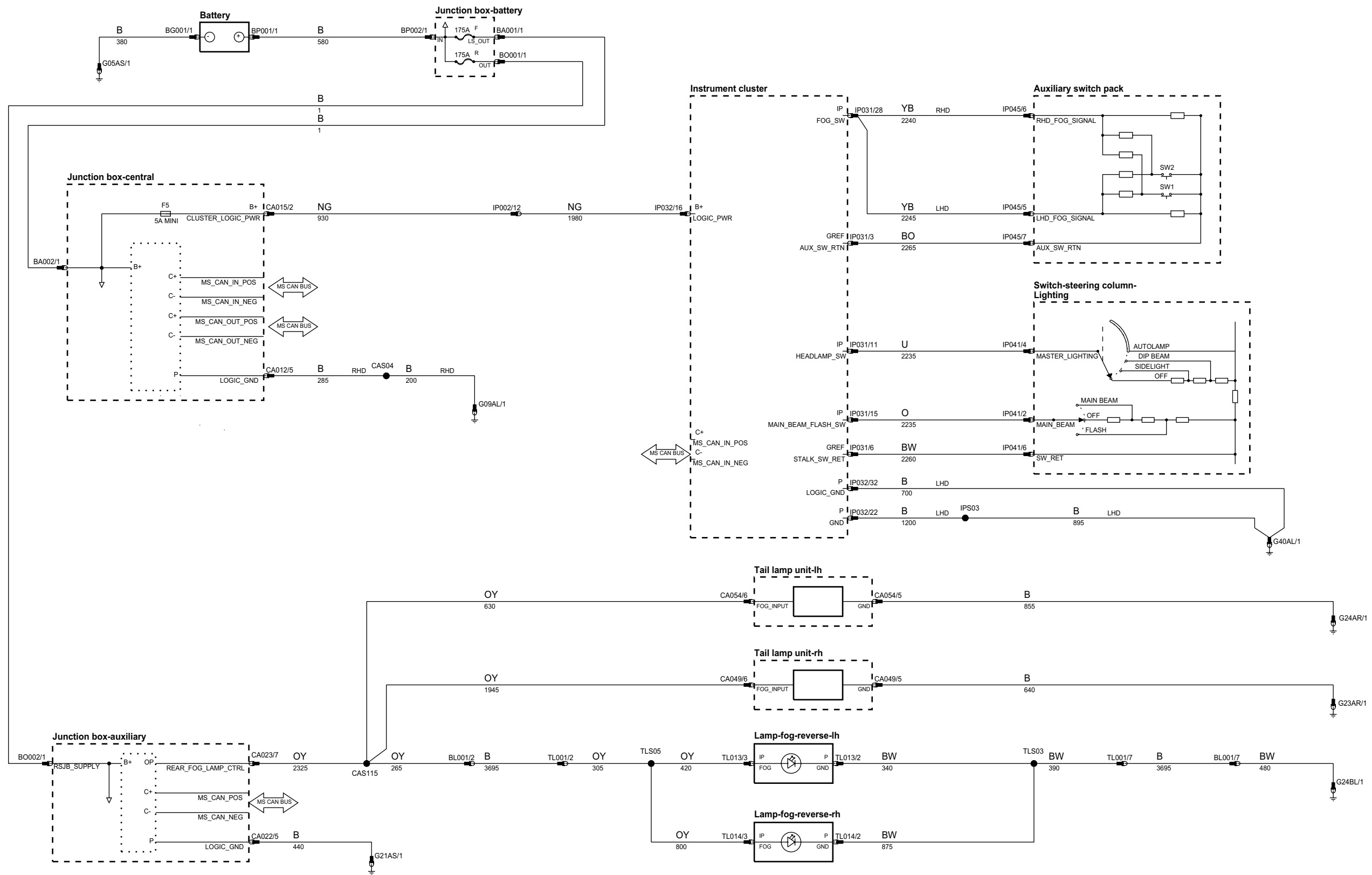


<b>B+</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

x



phcw83-70072-b-a4



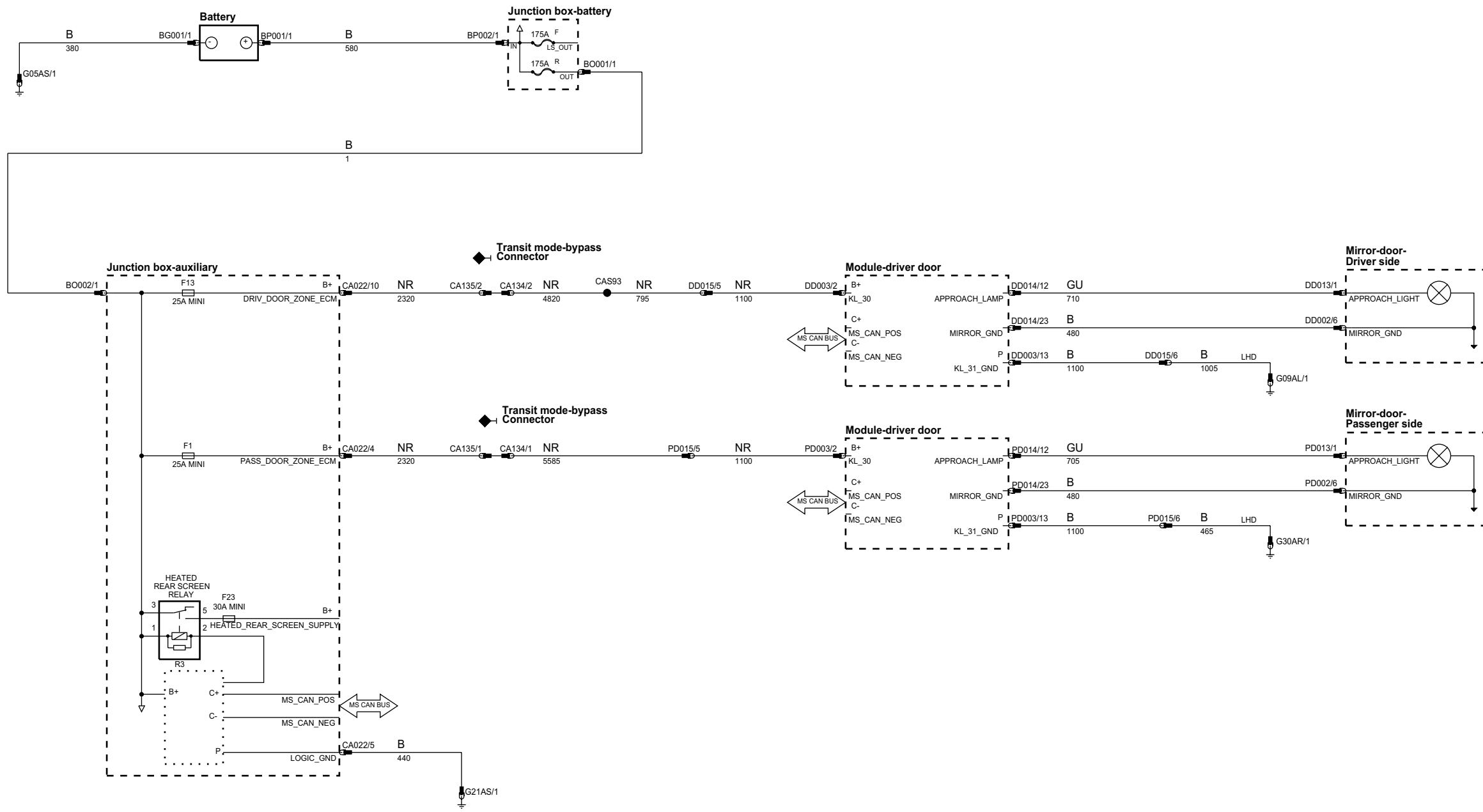
B+ Battery Voltage  
P Power Ground  
IP Input  
OP Output  
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70080-d-44



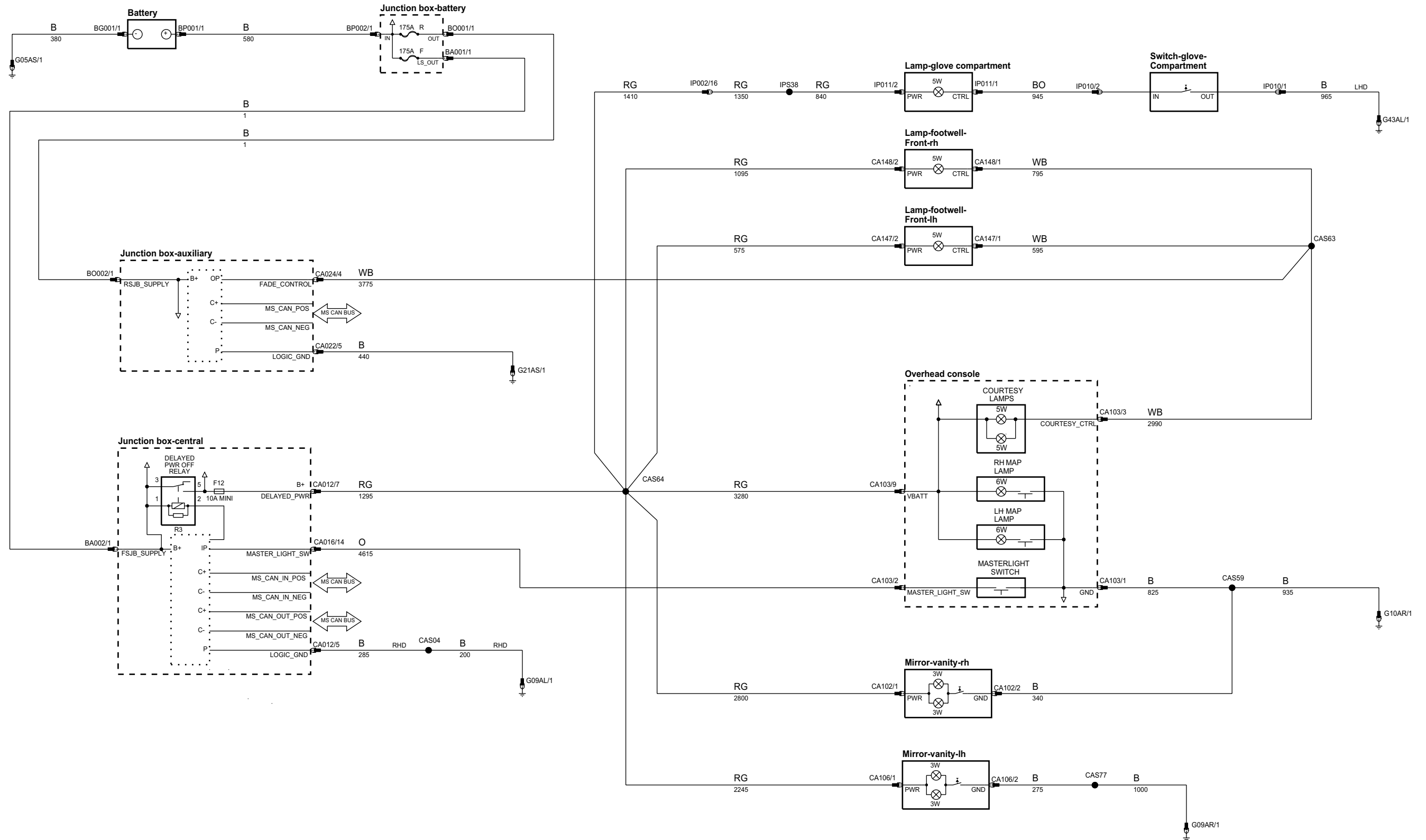
B- Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70101-b-a4



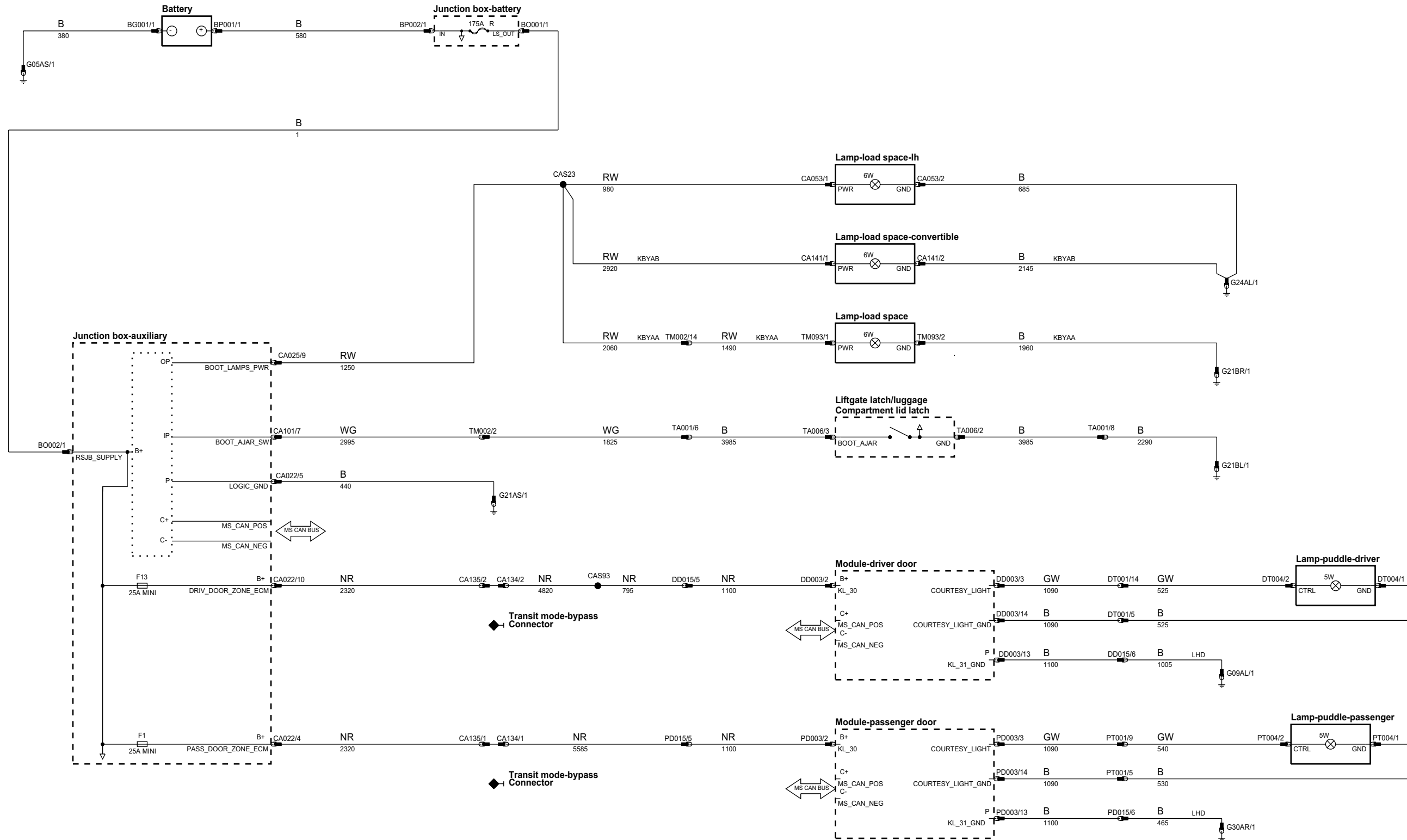
B- Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

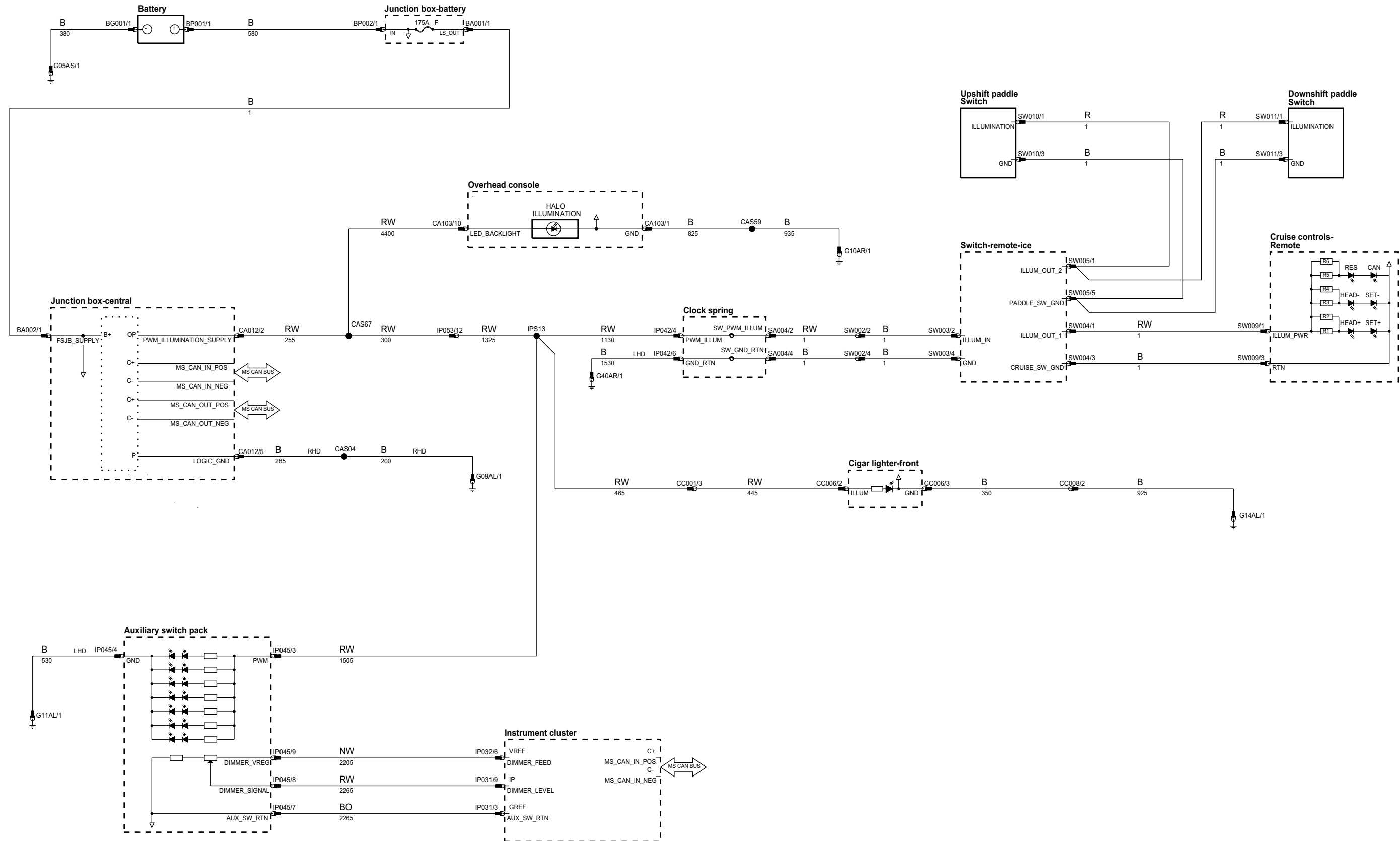
VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70104-b-a4



<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> All
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70120-a-a4



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

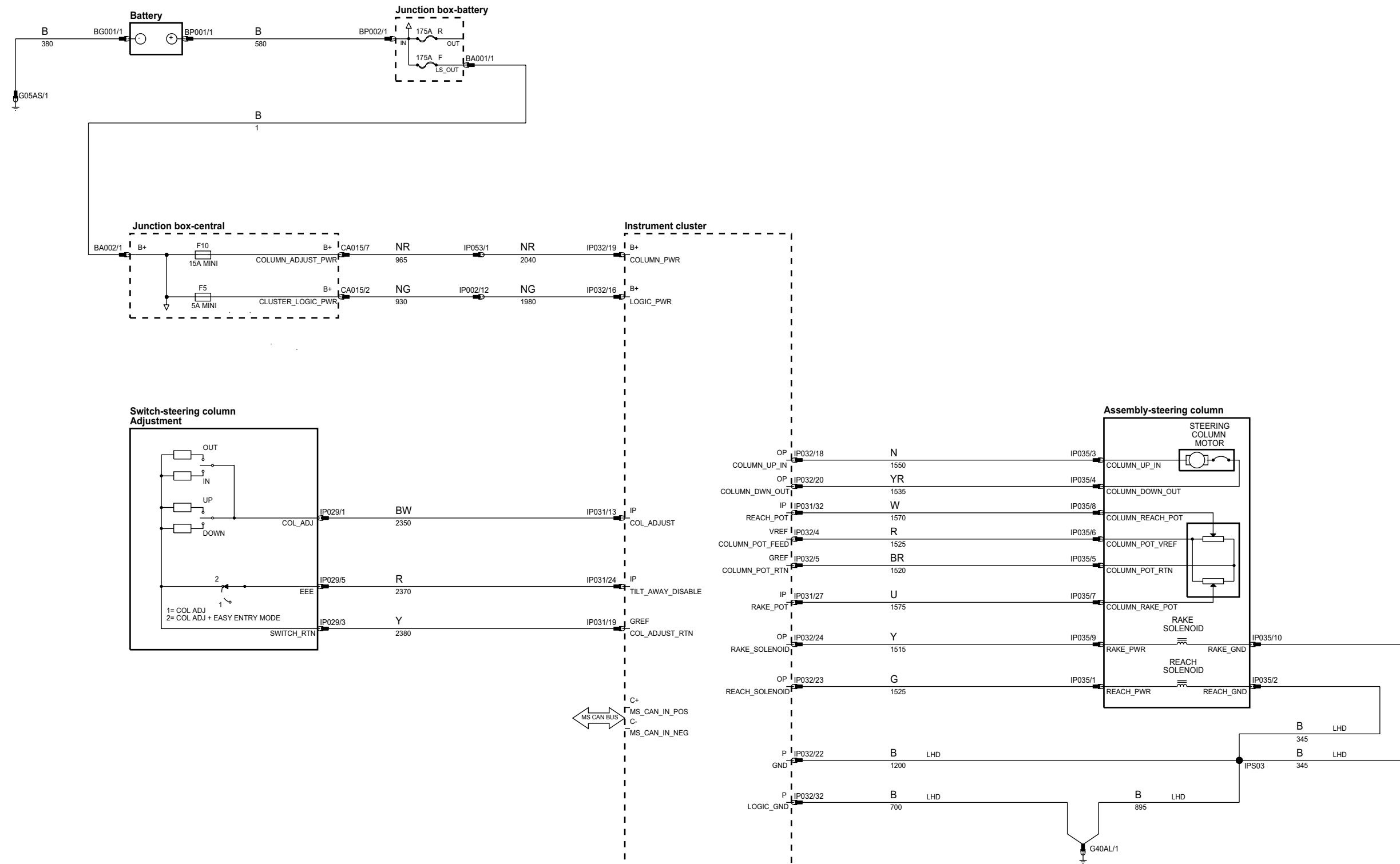
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

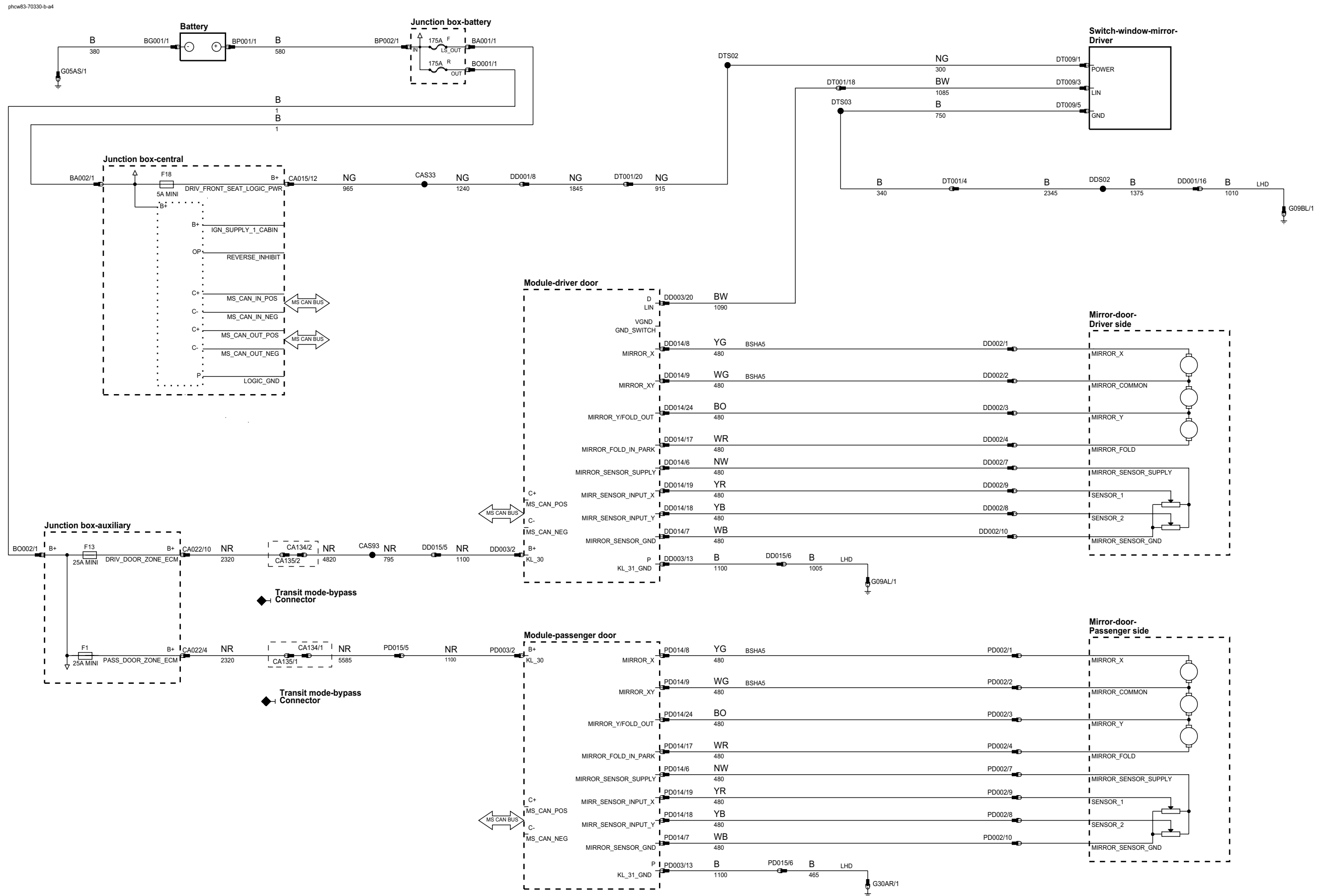
VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70360-b-a4



<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011



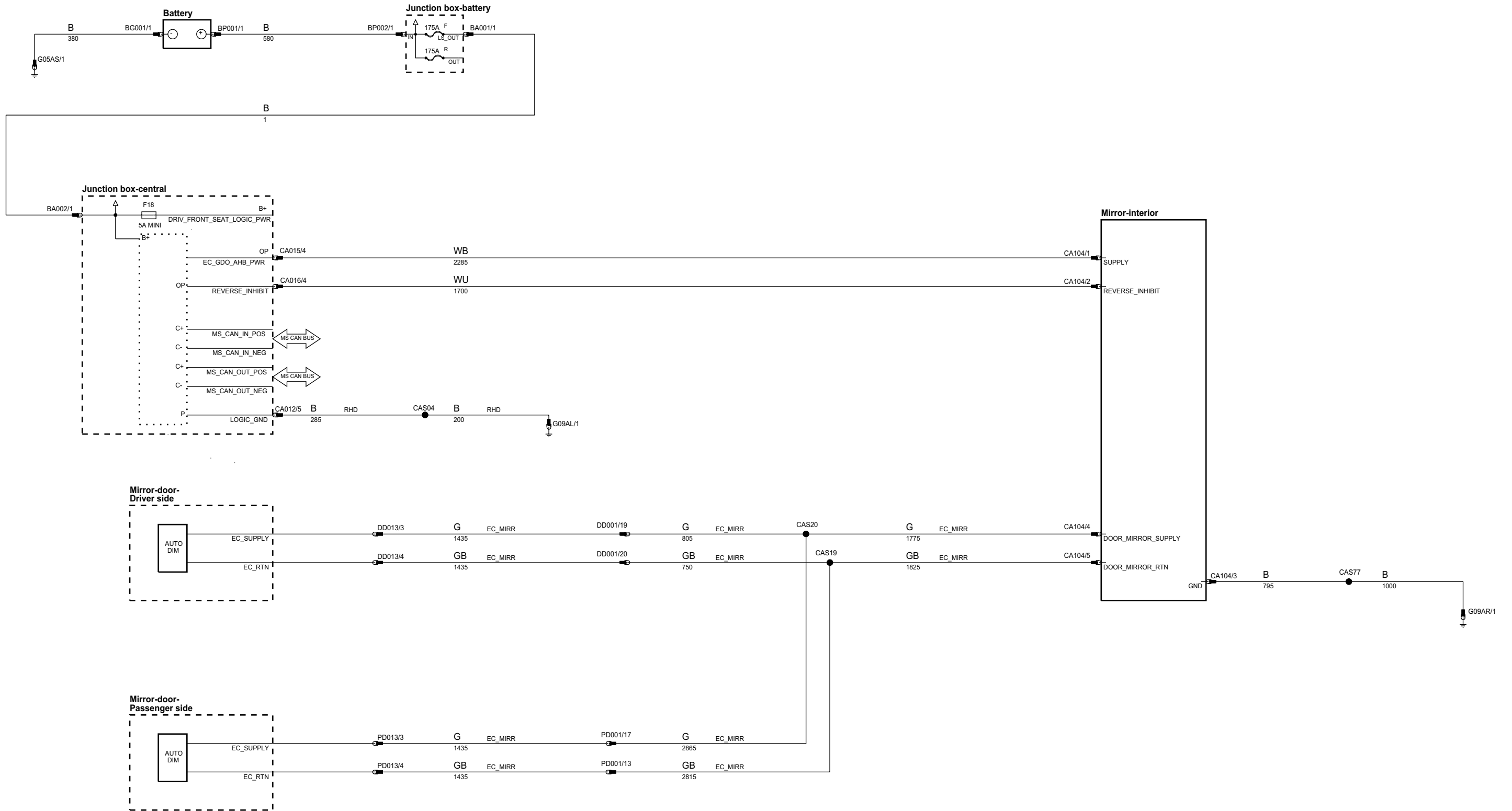
B+ Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70331-a-a4

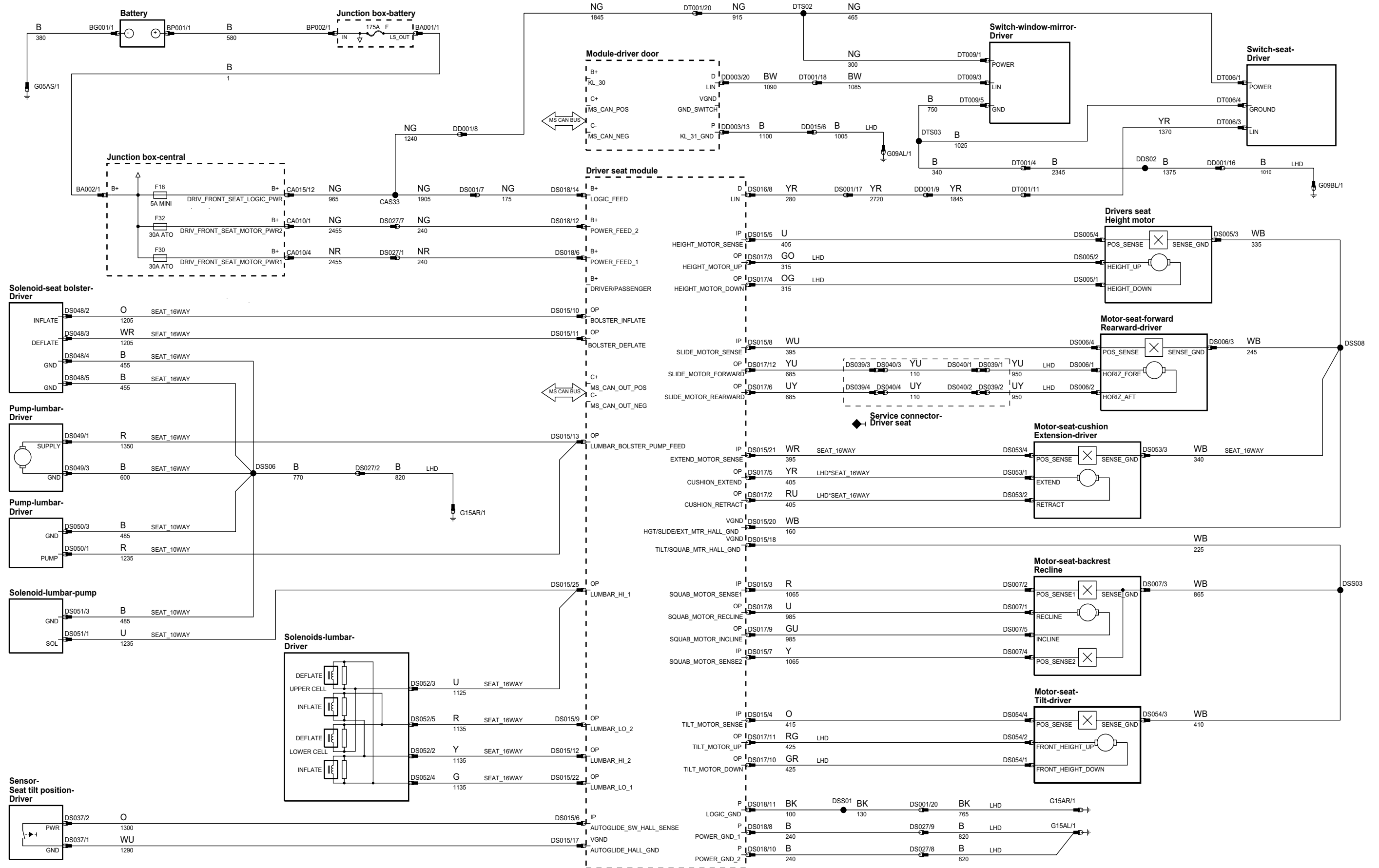


<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

x



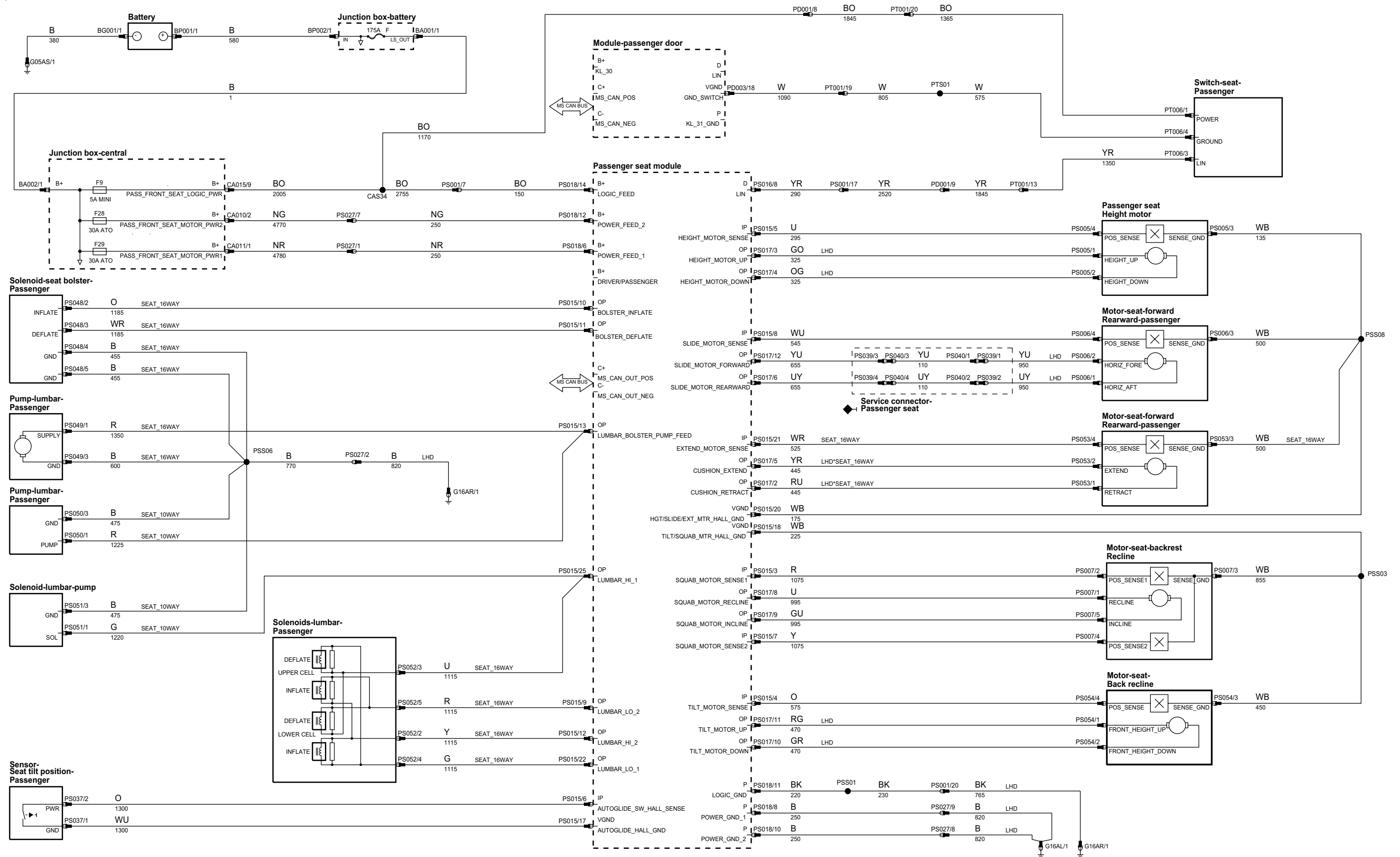
phcw83-70346-b-a4



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus
P Power Ground	OP Output	GRF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data

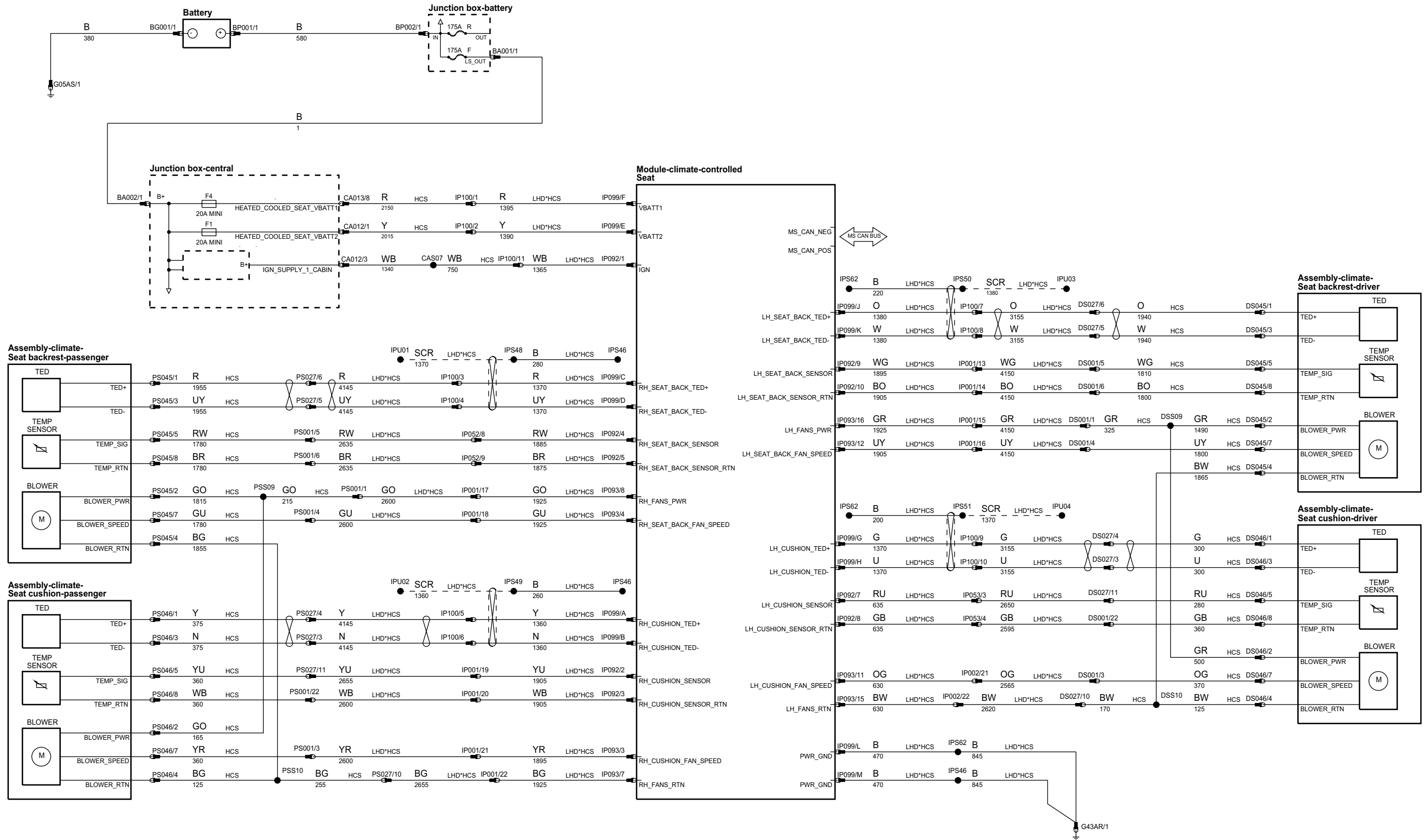
VARIANT: Yes  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70346-c-a4



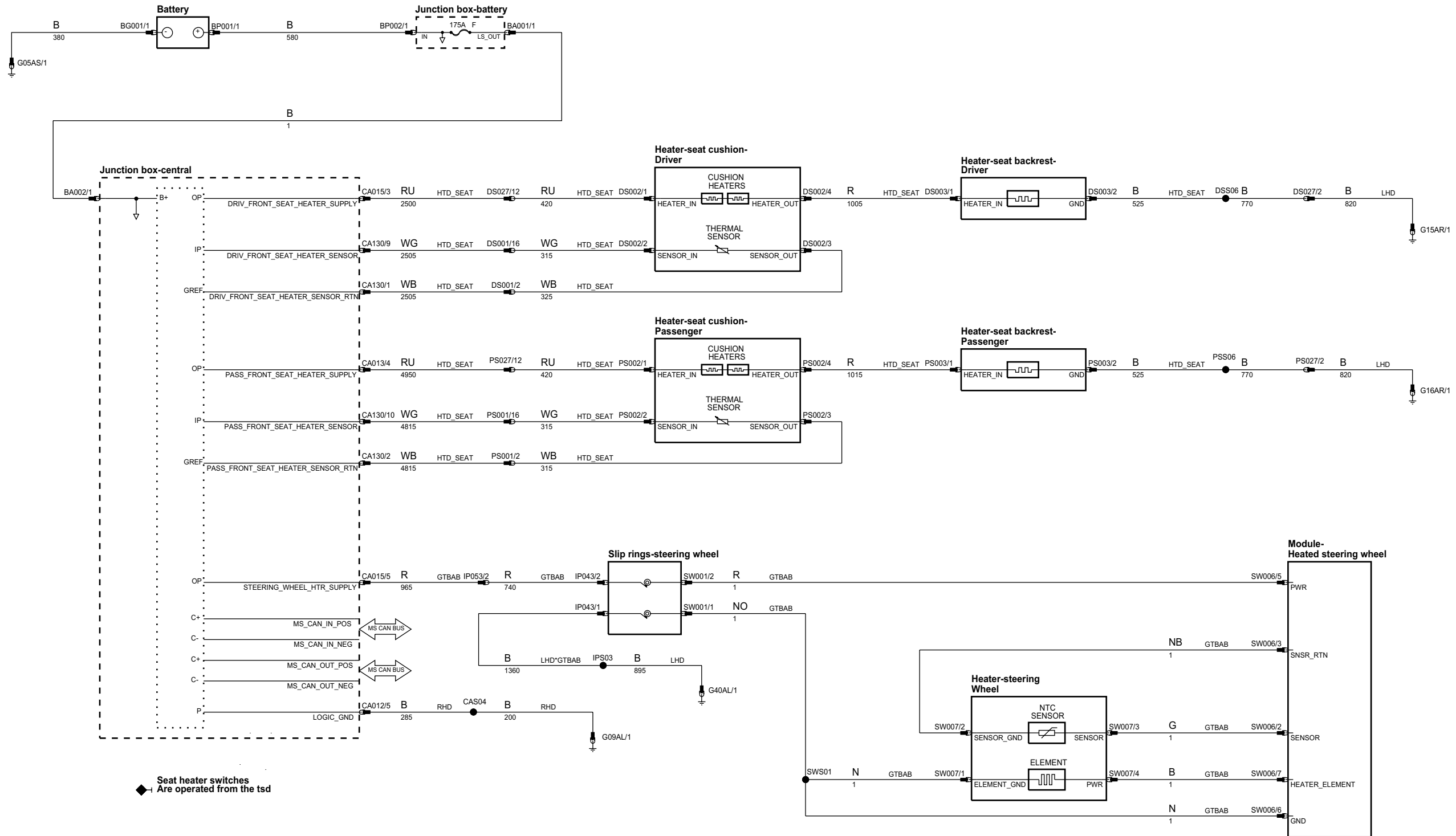
<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70347-c-a4



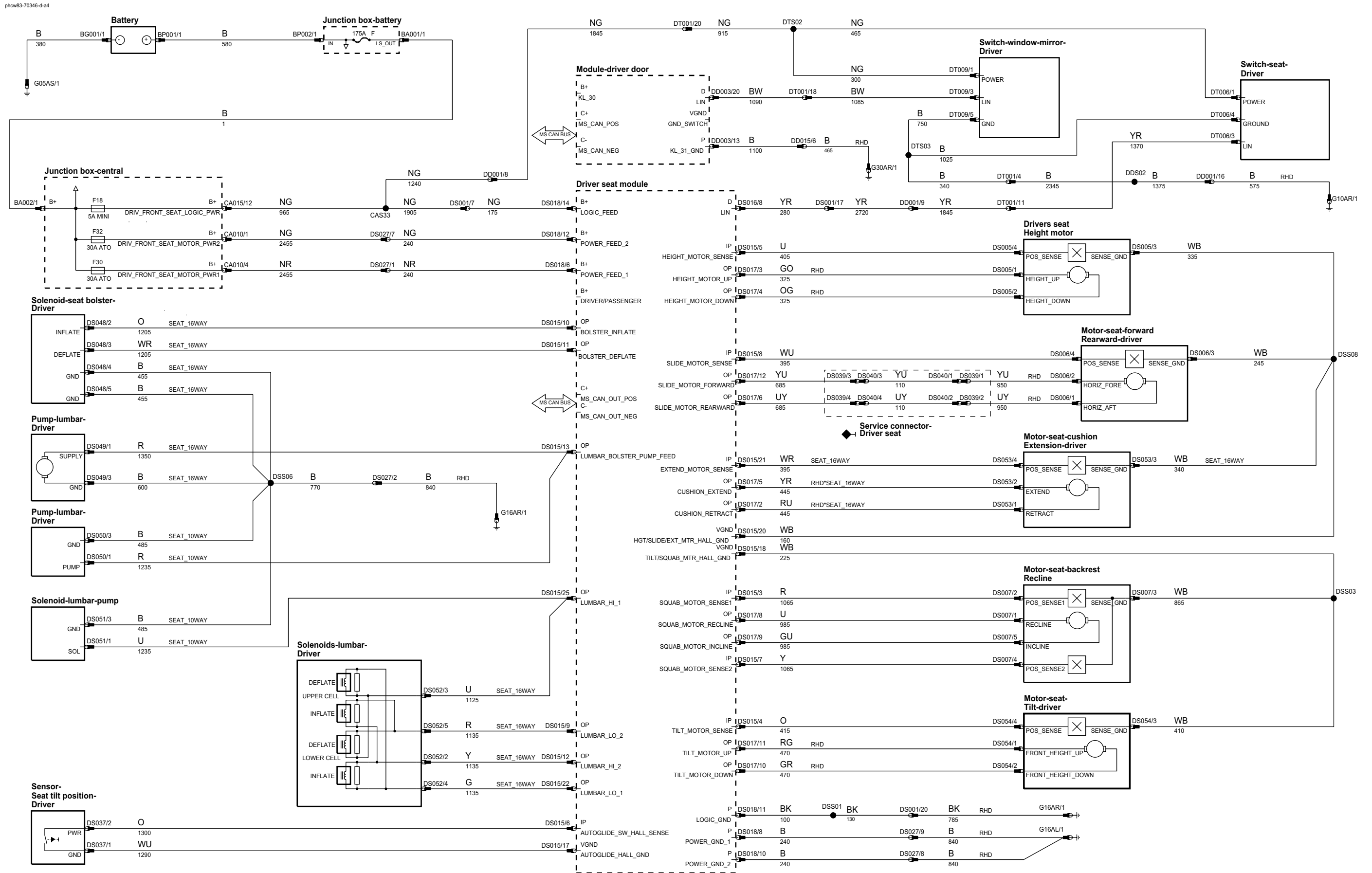
B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: Yes
P Power Ground	OP Output	GREF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phcw83-70347-b-a4



Seat heater switches  
Are operated from the tsd

<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GREF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

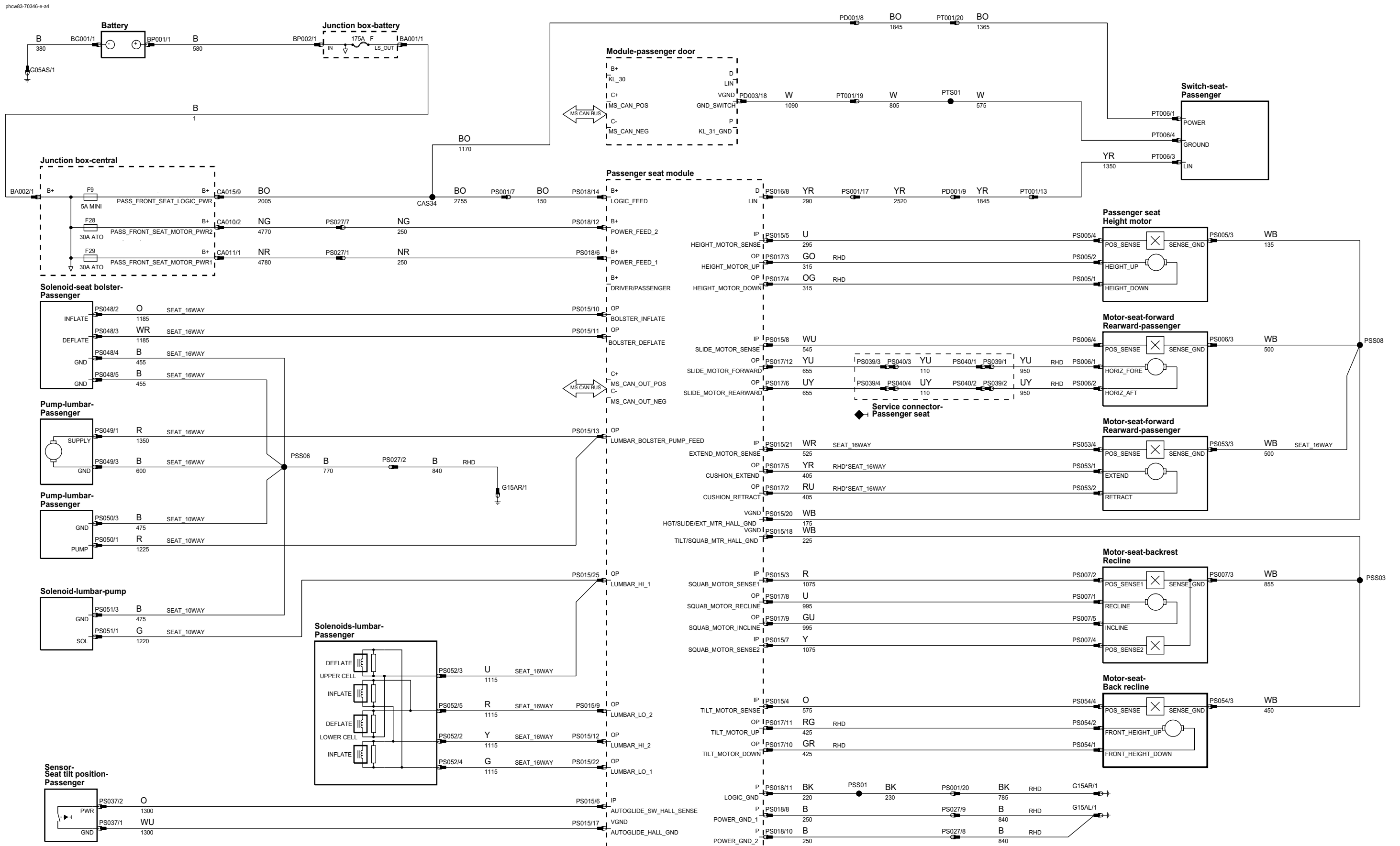


B+ Battery Voltage  
 IP Input  
 VREF Sensor/Signal Supply V  
 P Power Ground  
 OP Output  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

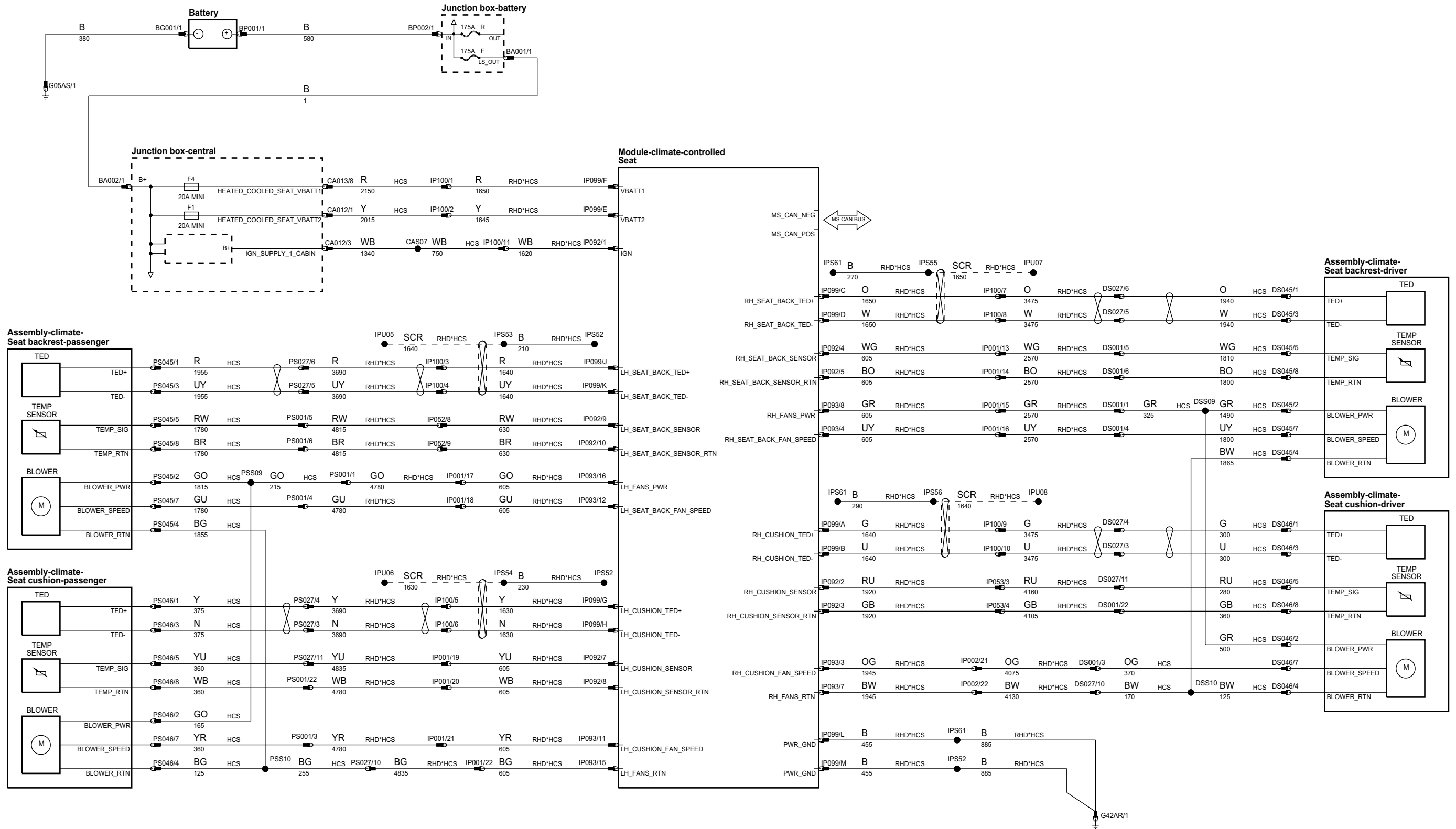
MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

VARIANT: Yes  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011



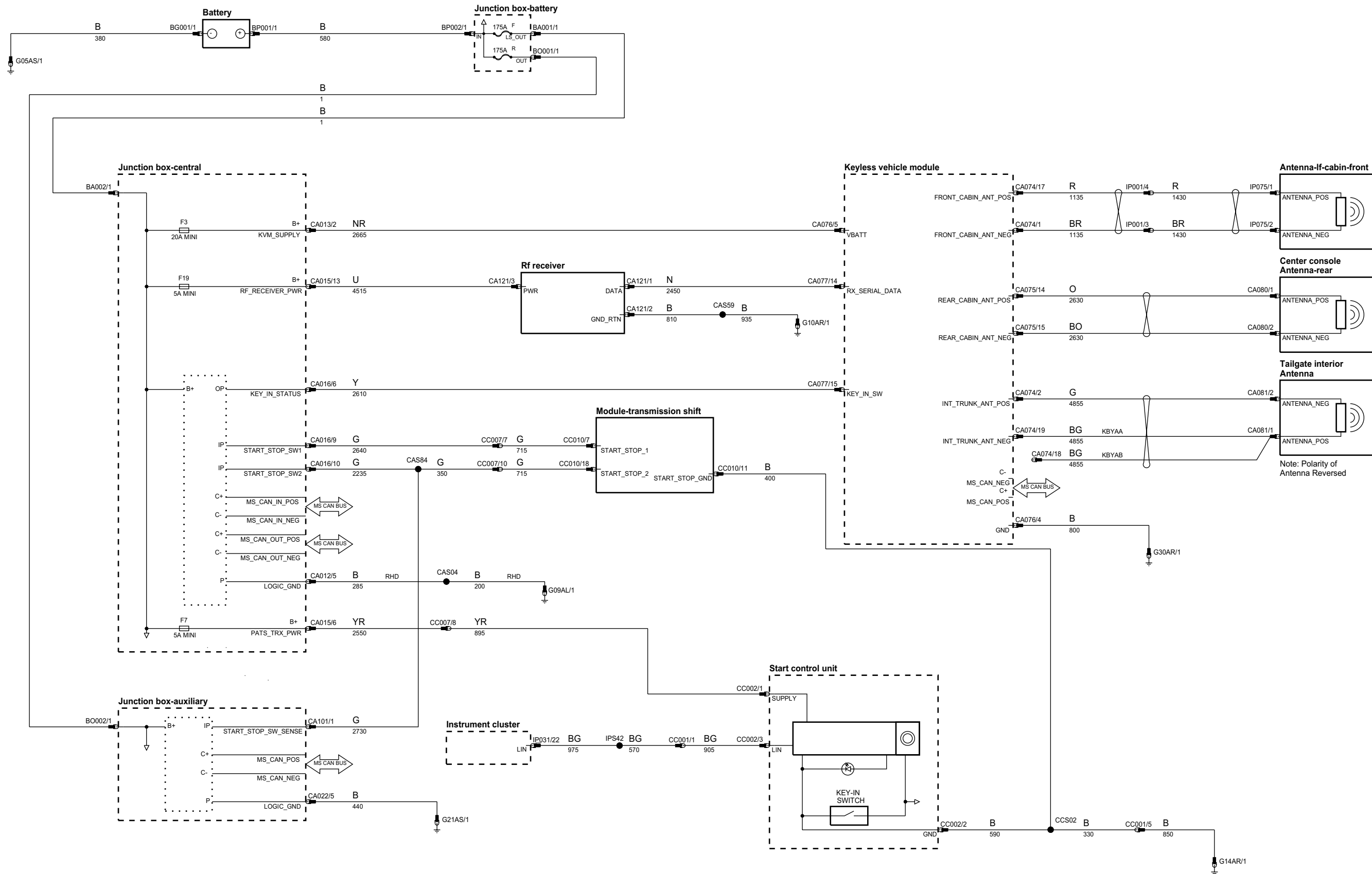
<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70347-d-a4



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: Yes
P Power Ground	OP Output	GREF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phcw83-70417-a-a4



B- Battery Voltage  
P Power Ground  
IP Input  
OP Output  
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

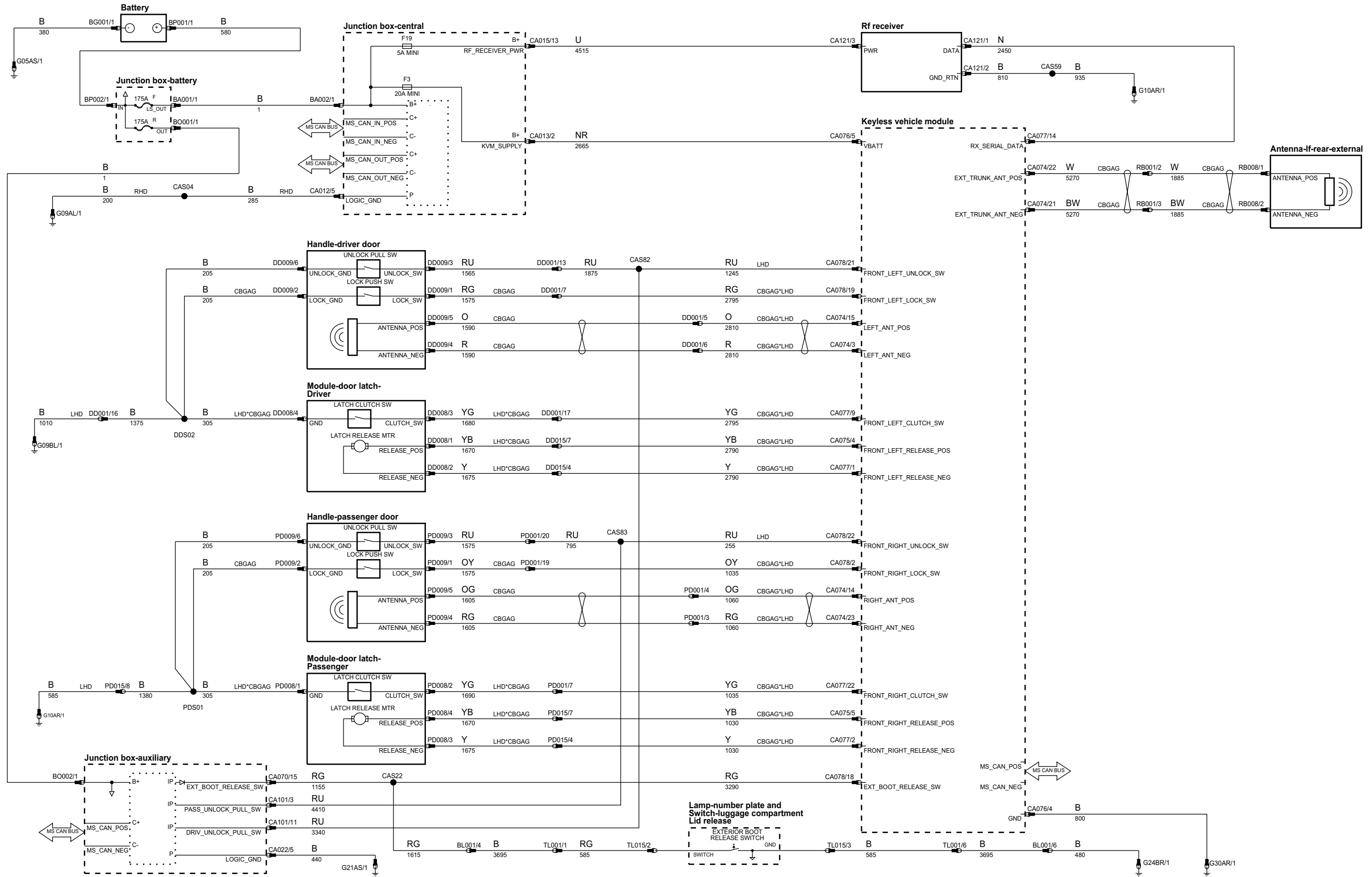
HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011



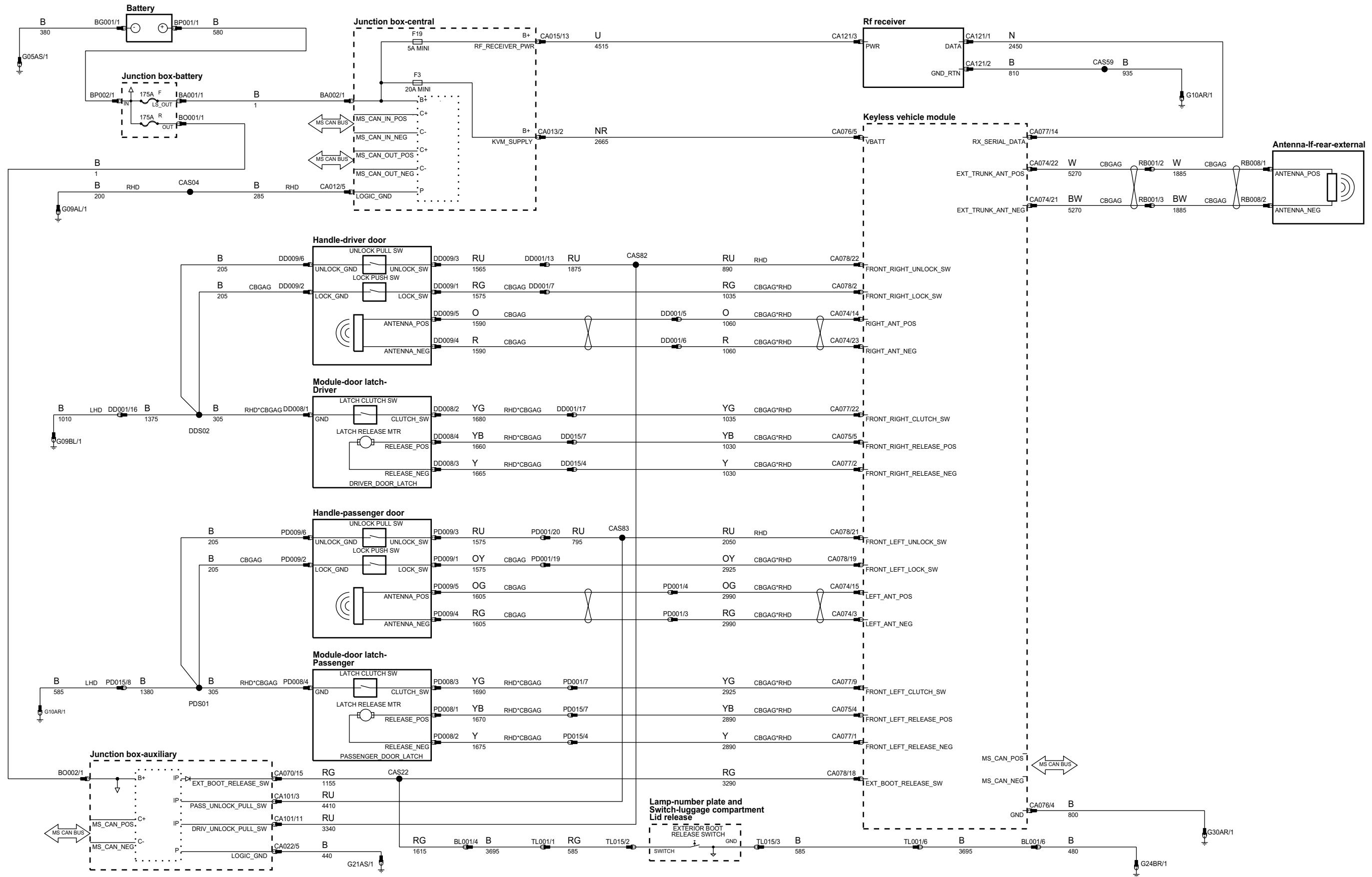
phcw83-70410-a-a4



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus
P Power Ground	OP Output	GRF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data

VARIANT: Yes  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

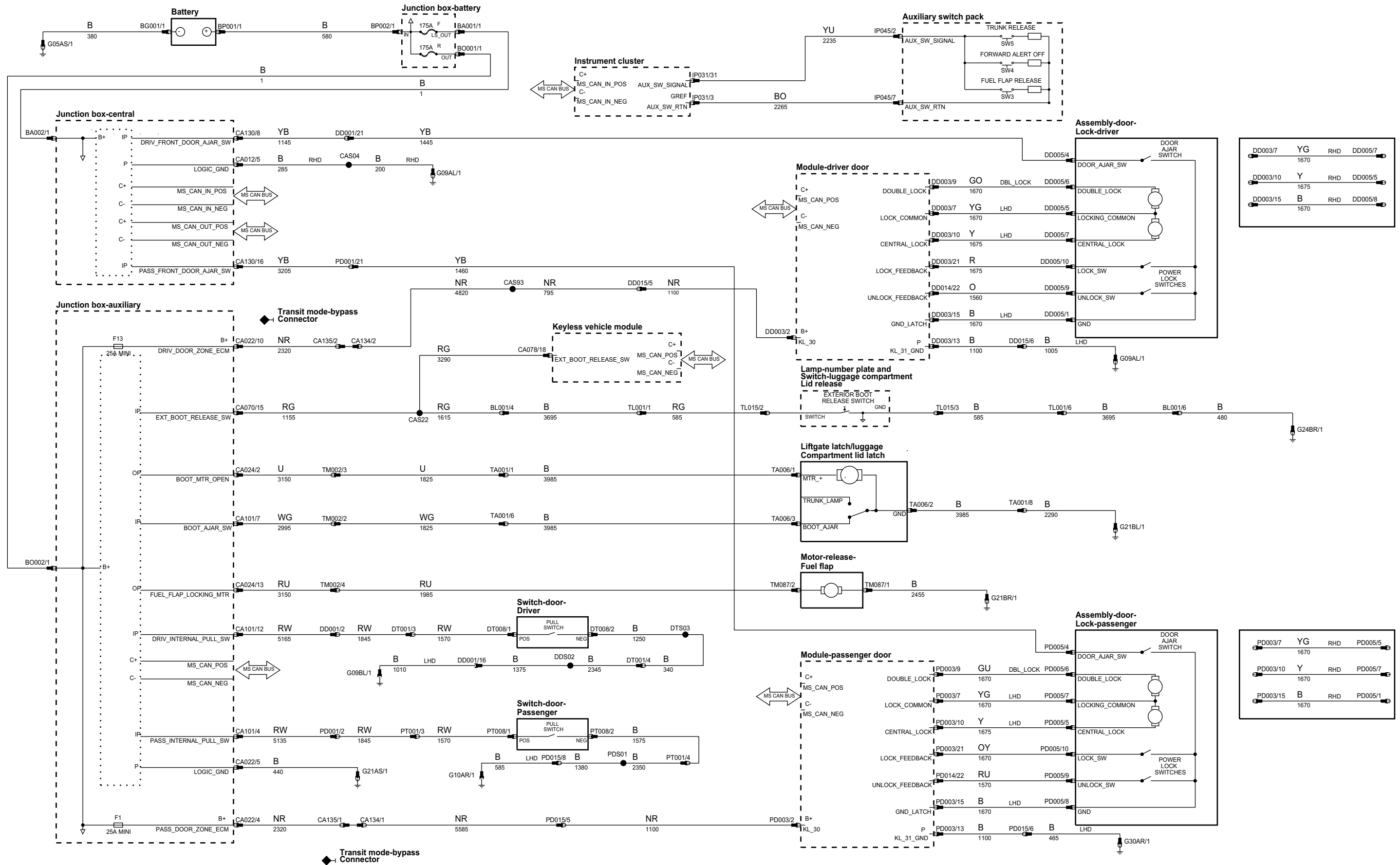
phcw83-70410-b-a4



<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data

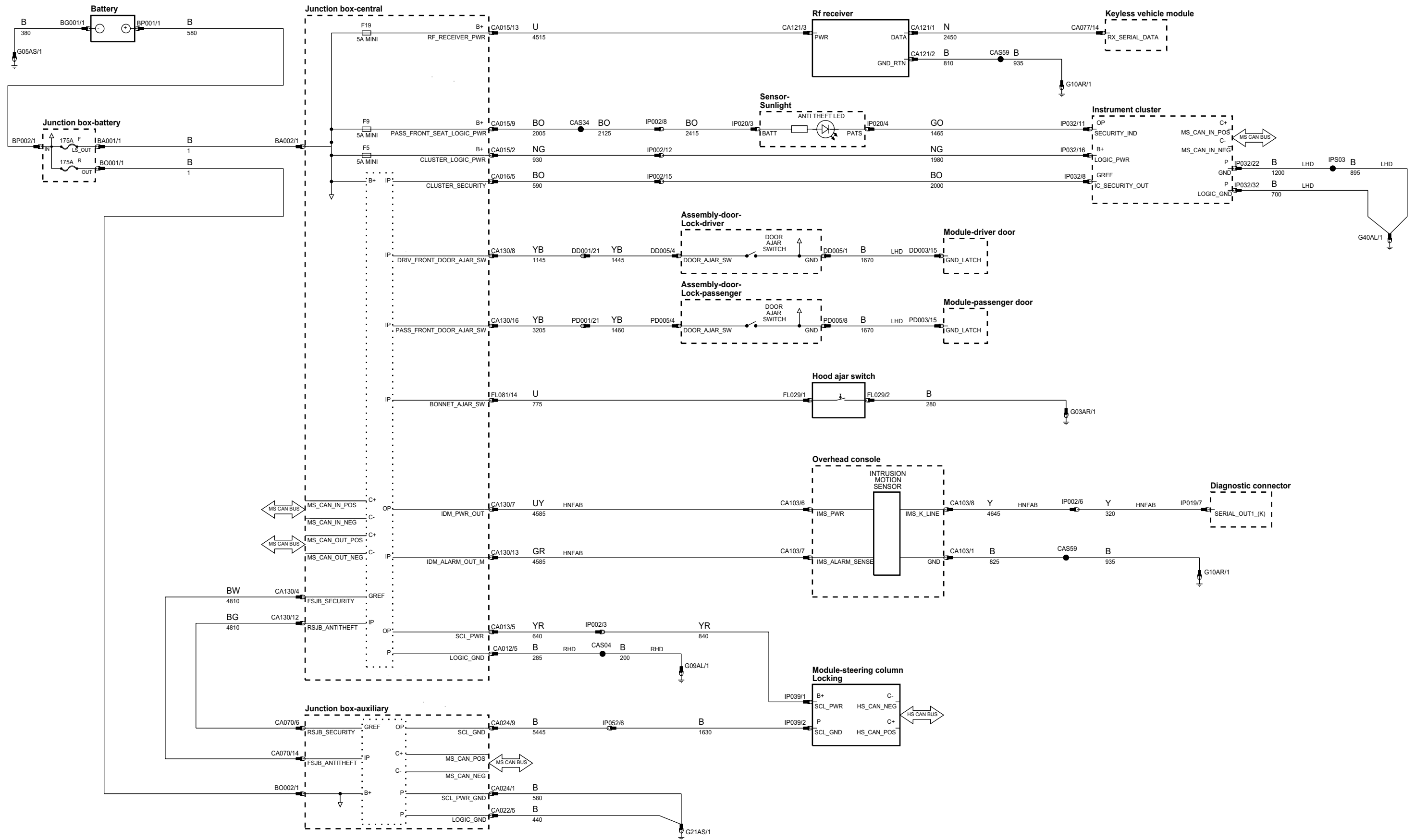
**VARIANT:** Yes  
**VIN RANGE:** All  
**DATE OF ISSUE:** 12/2008

phcw83-70420-b-a4



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GRESF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

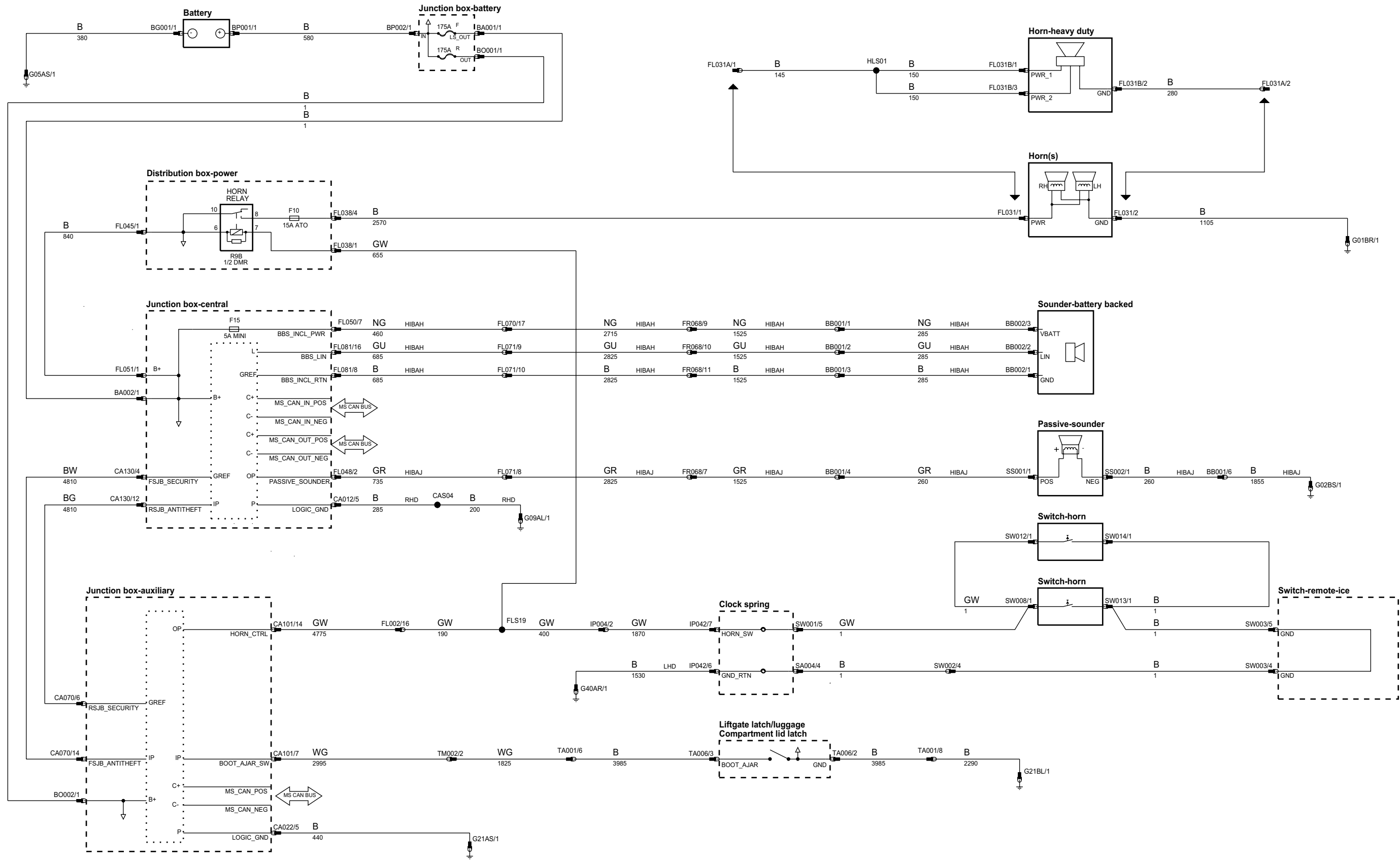
phcw83-70395-a-4



<b>B+</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRESF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data

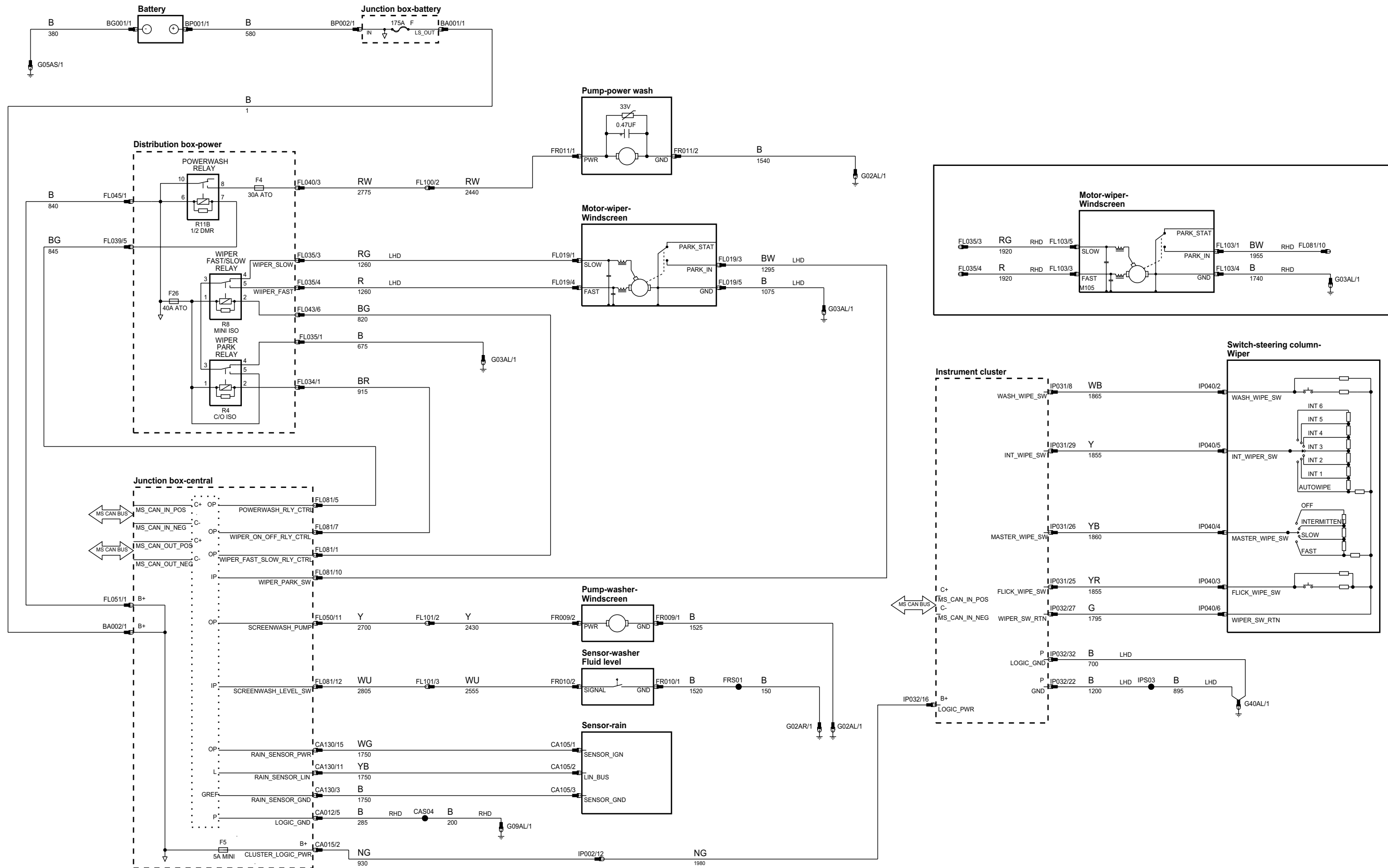
VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70395-b-a4



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GREF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

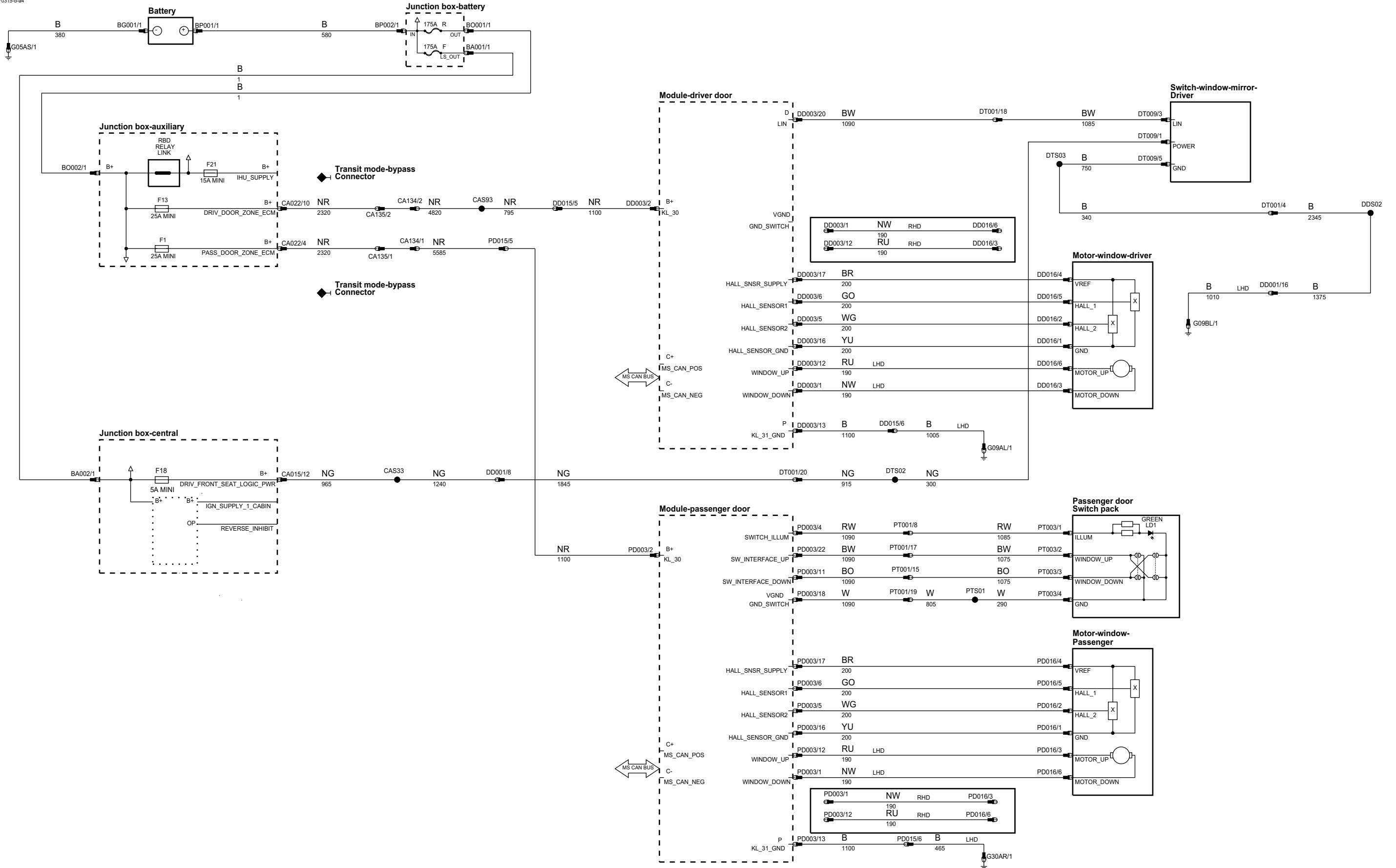
phcw83-70133-b-a4



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus
P Power Ground	OP Output	GREF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data

VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

phcw83-70315-b-a4



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

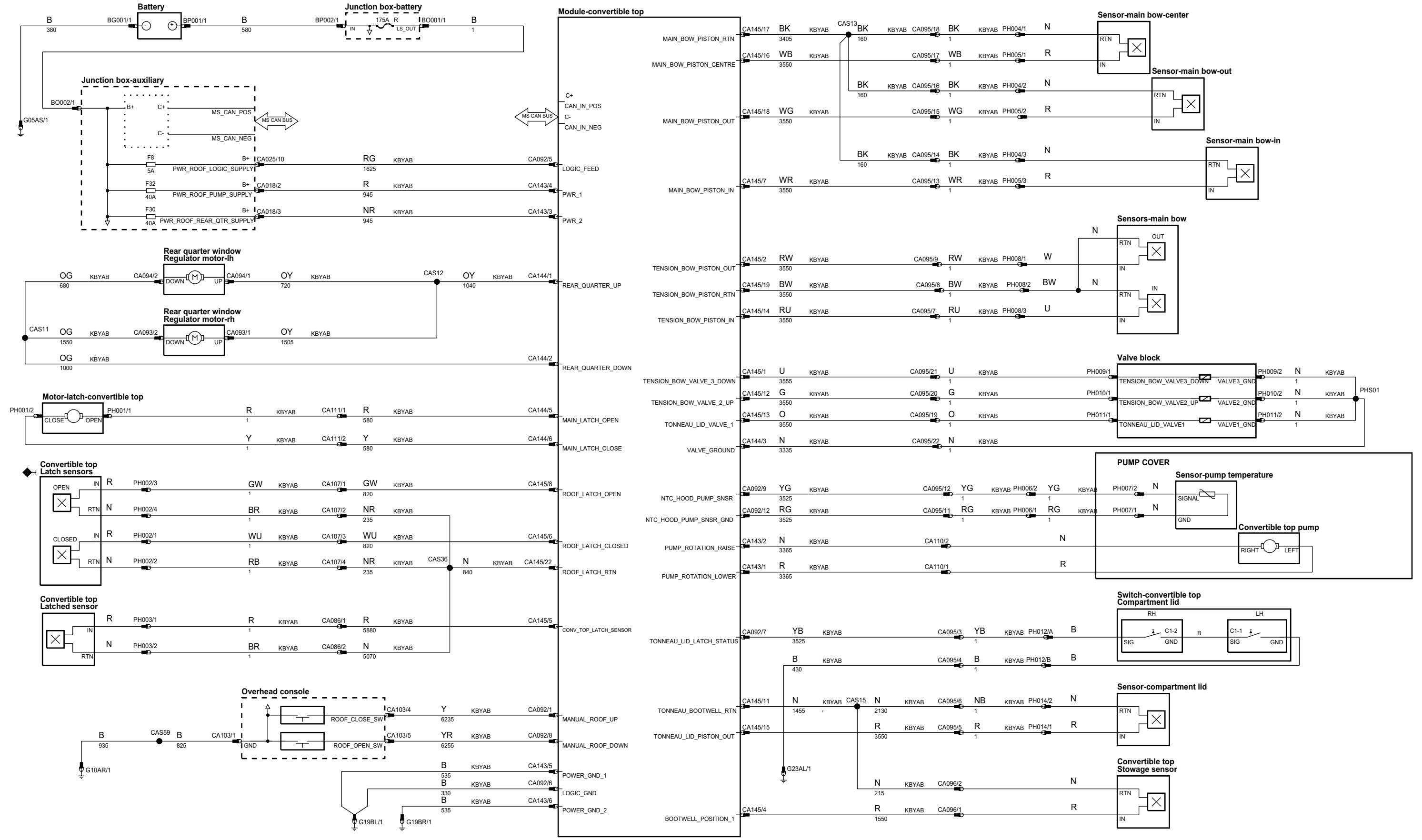
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

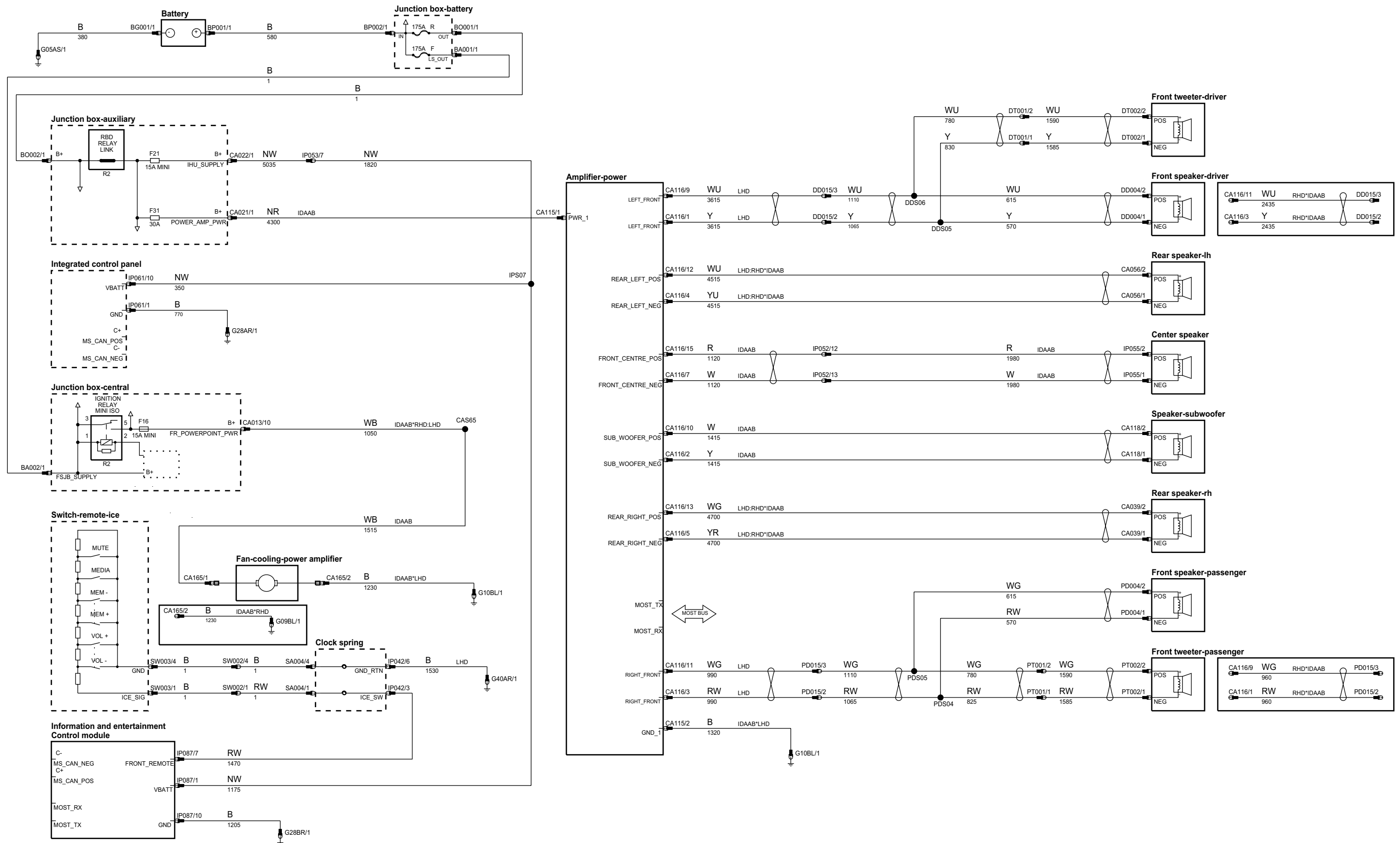
phcw83-70351-a-4



<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

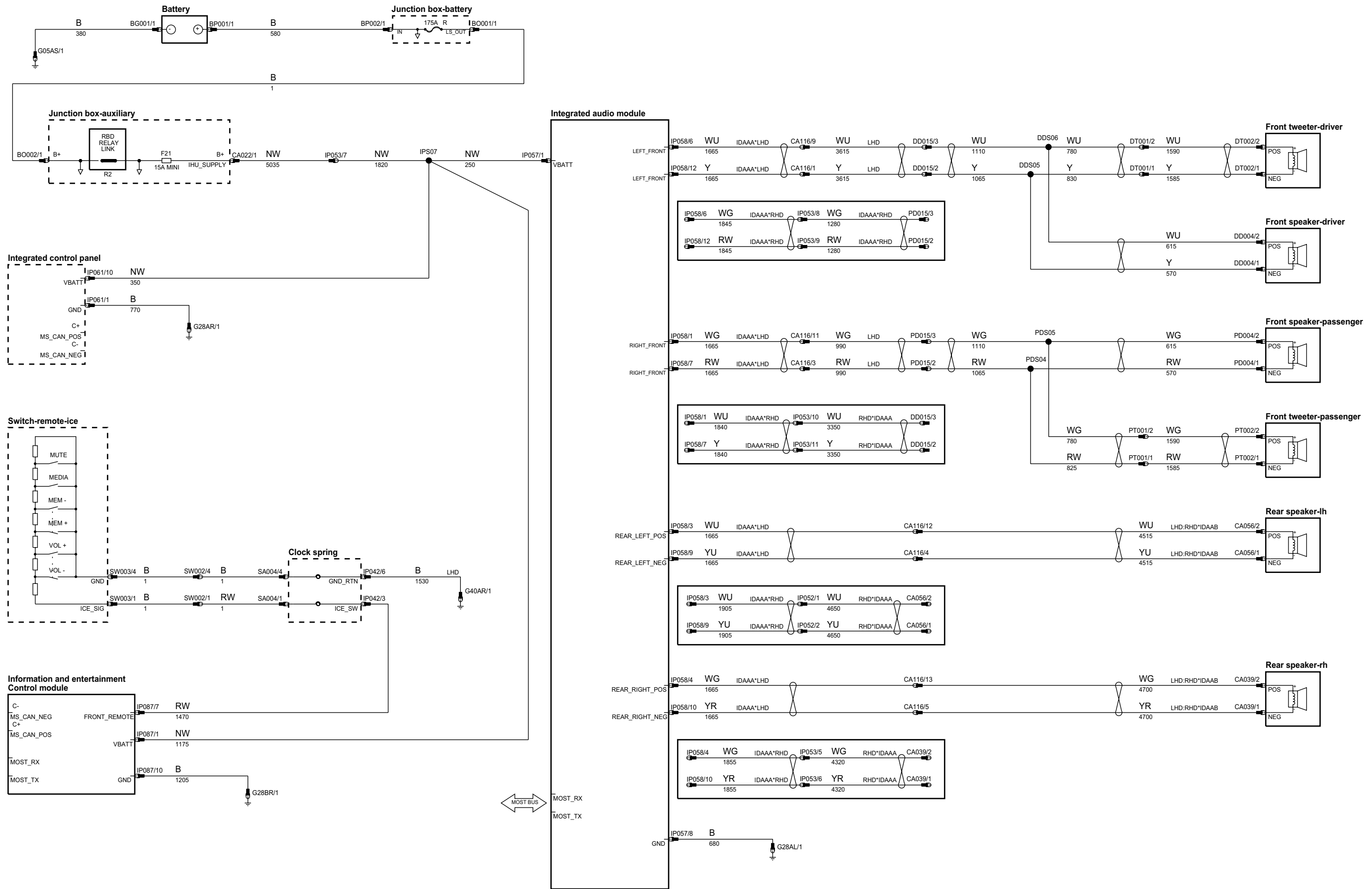


phcw83-70441-a2-a4



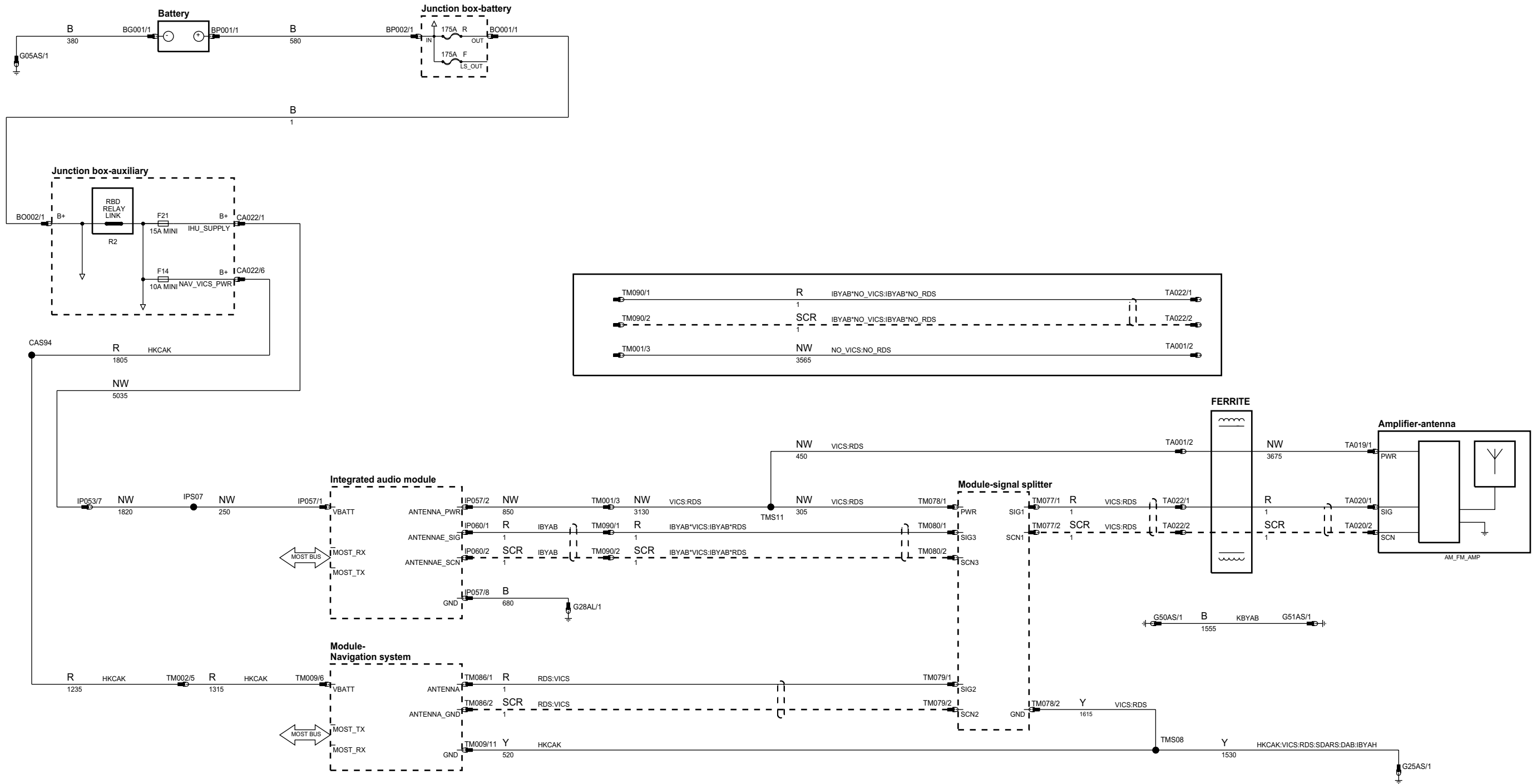
B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: Yes
P Power Ground	OP Output	GREF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phcw83-70441-b-a4



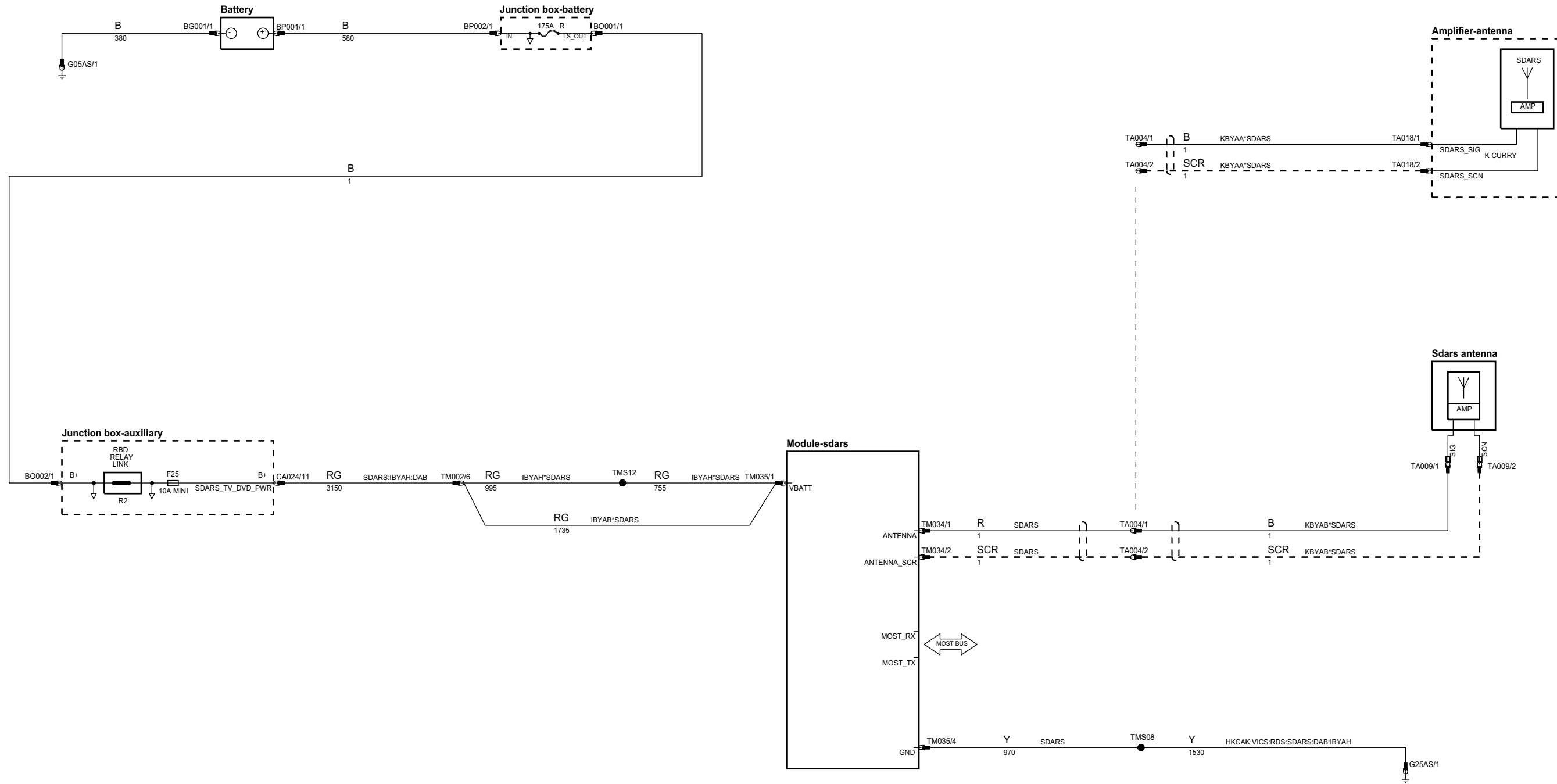
<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70441-a3-a4



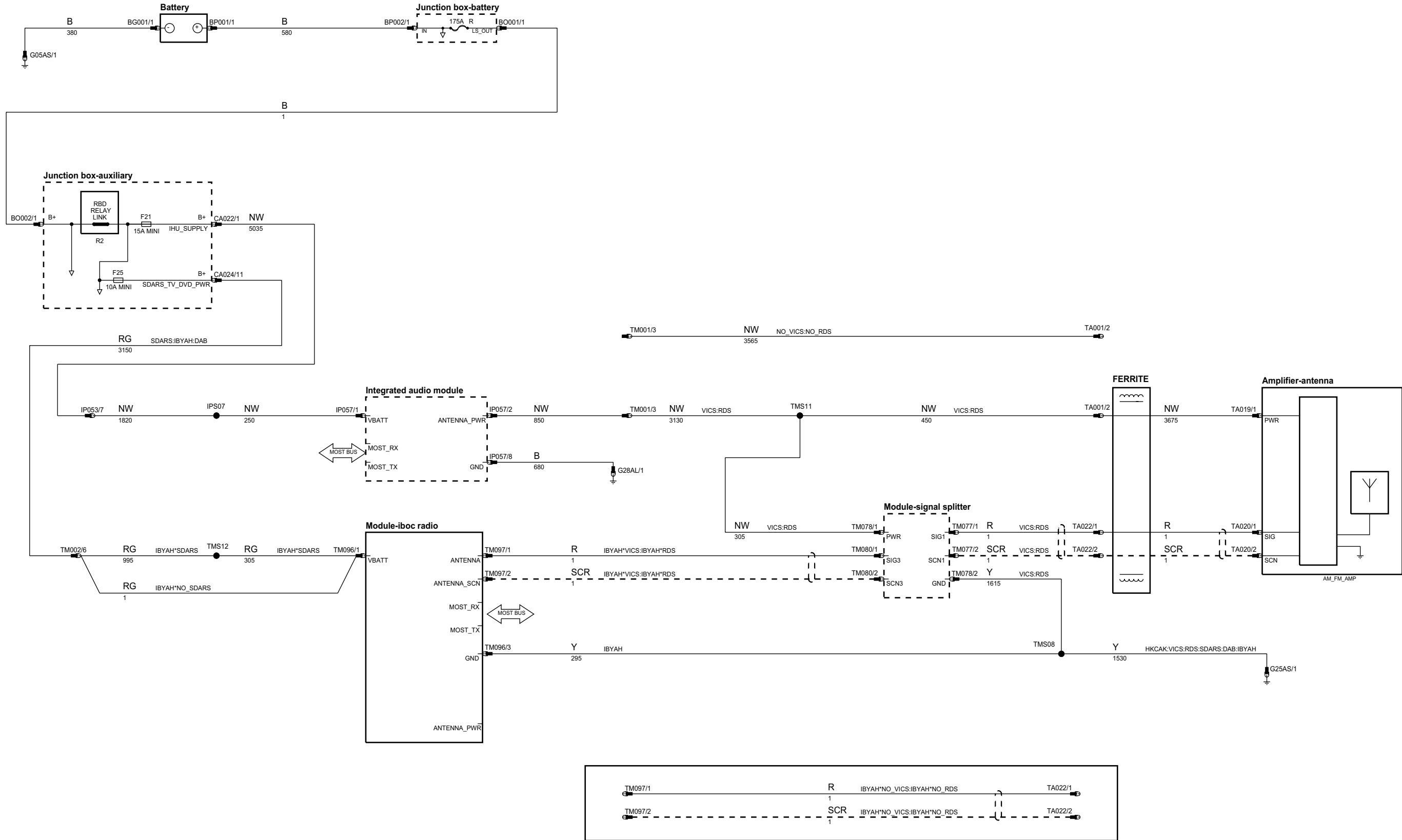
<b>B</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70456-a-44



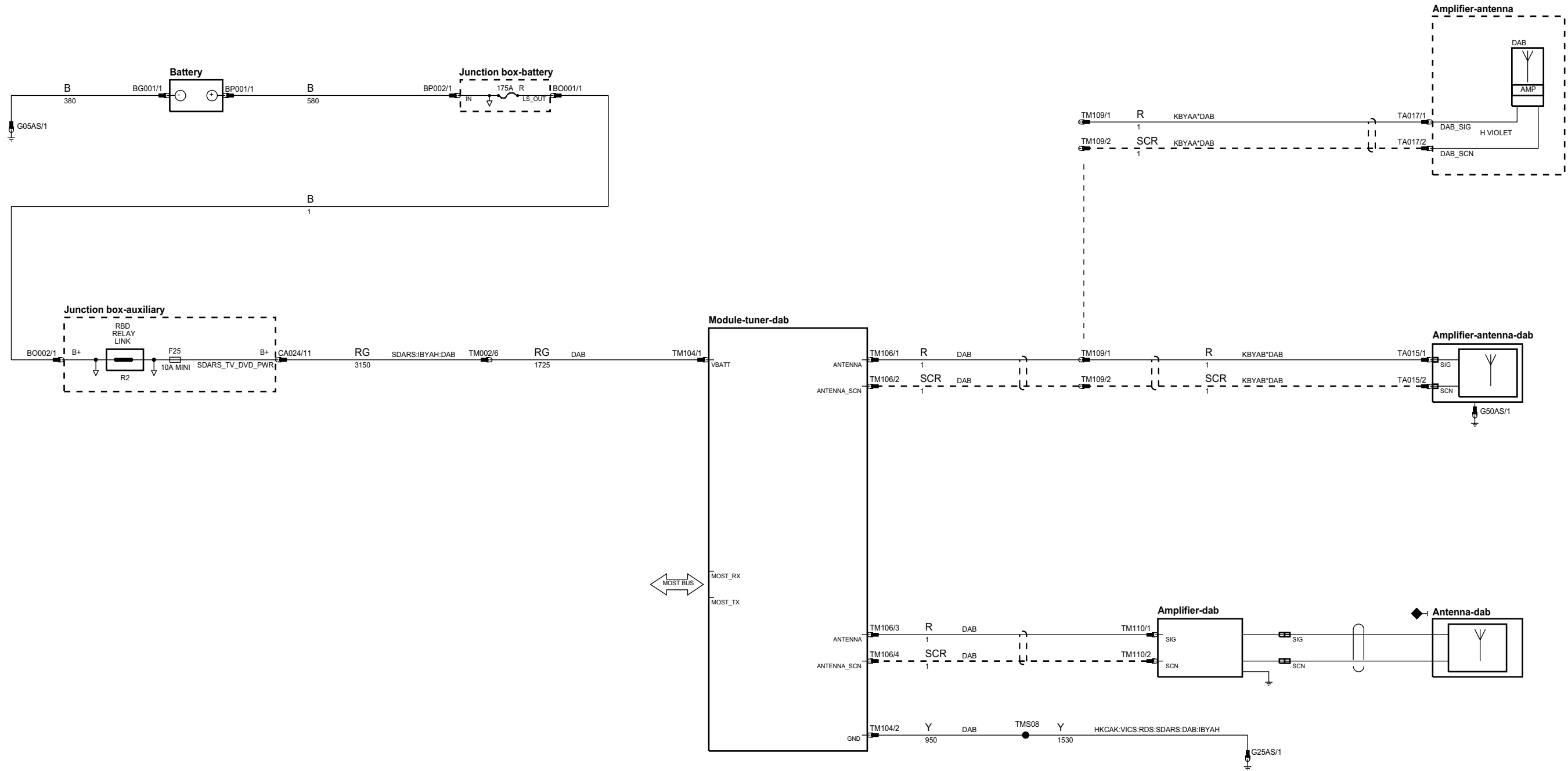
<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> Yes
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70456-b-a4



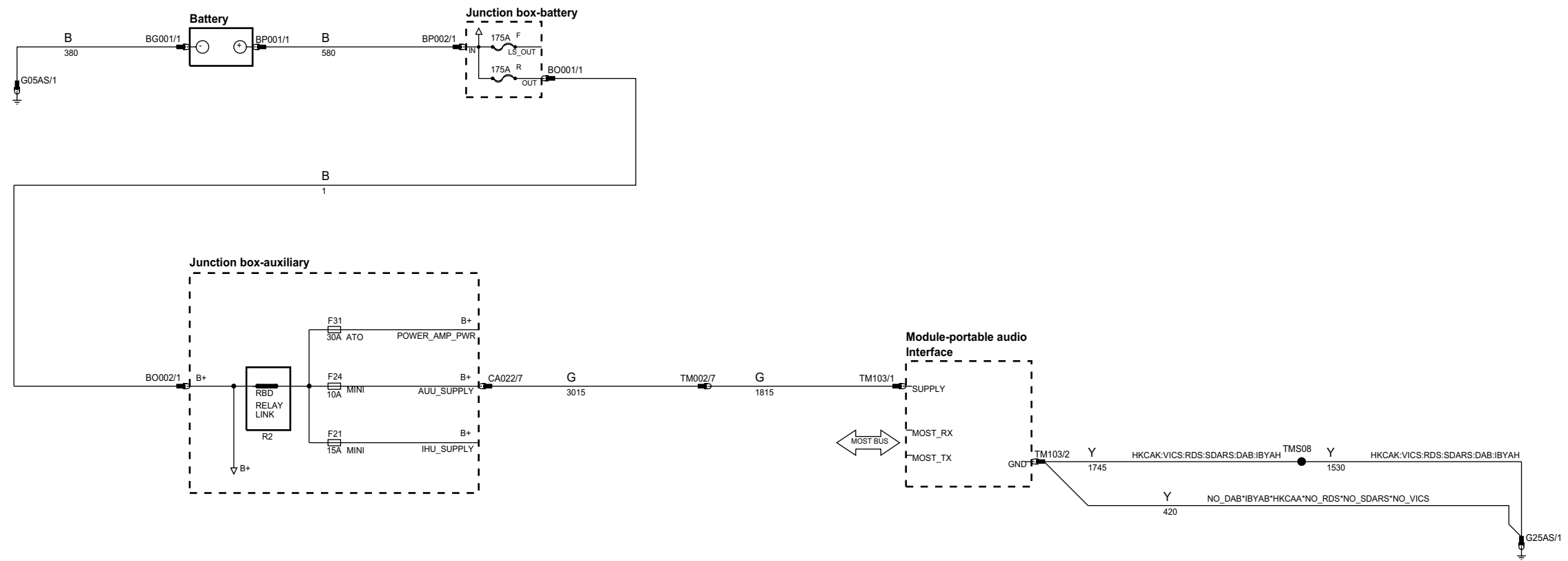
<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phw63-70456-c-04



<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70445-a-a4



B+ Battery Voltage  
P Power Ground

IP Input  
OP Output

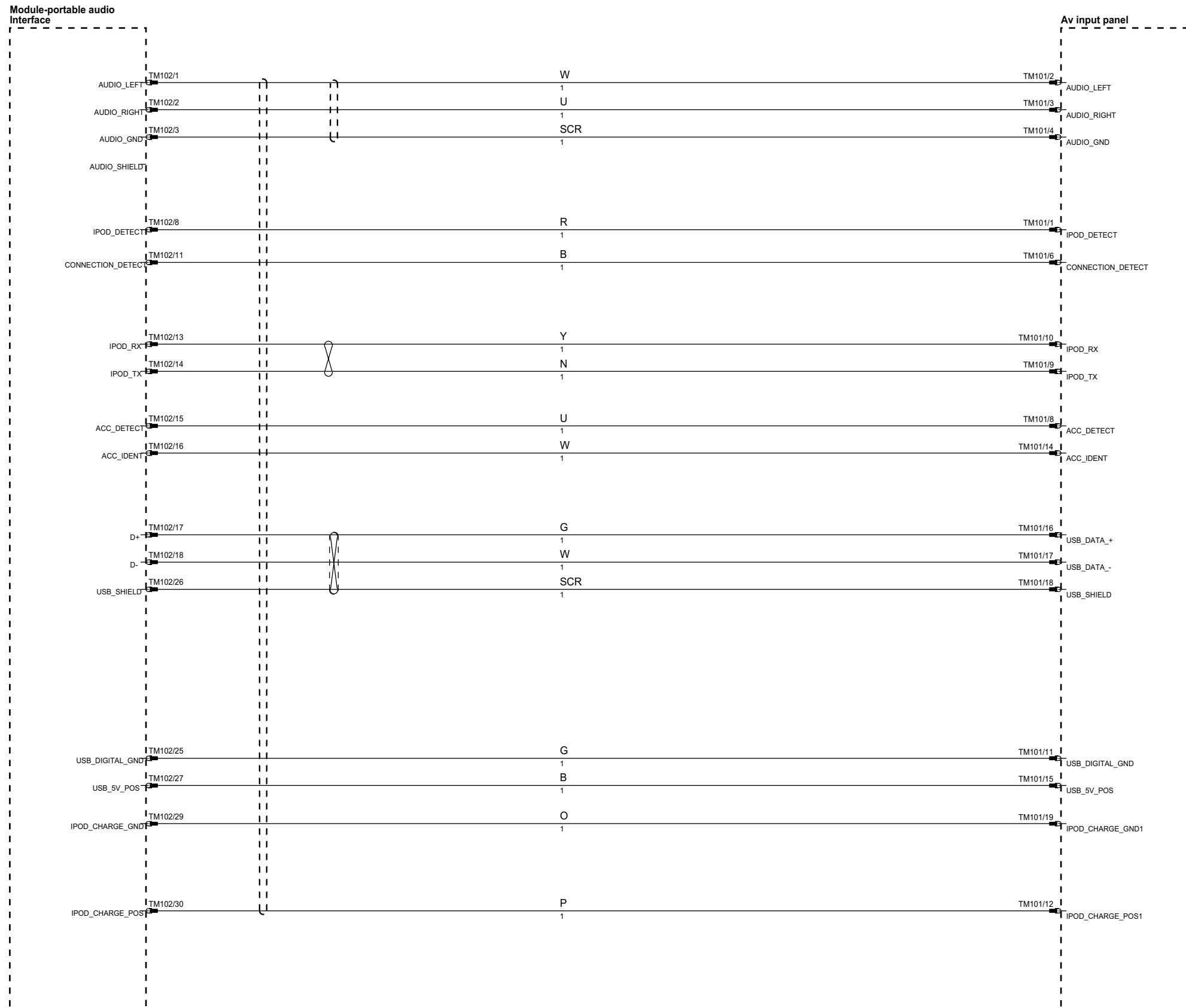
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: Yes  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70445-b-a4



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

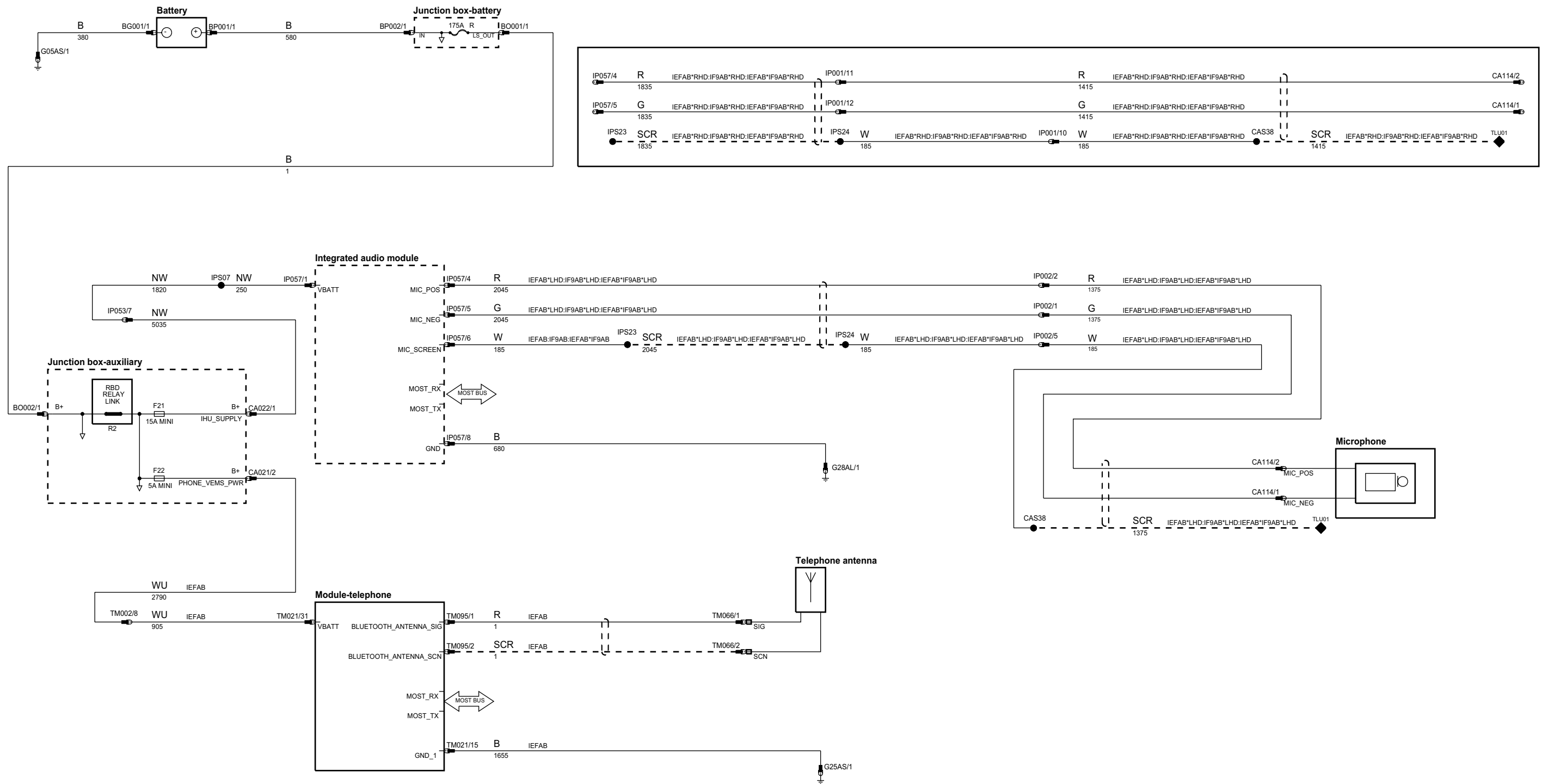
MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: Yes  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

x



phcw83-70462-a2-a4



B+ Battery Voltage  
P Power Ground

IP Input  
OP Output

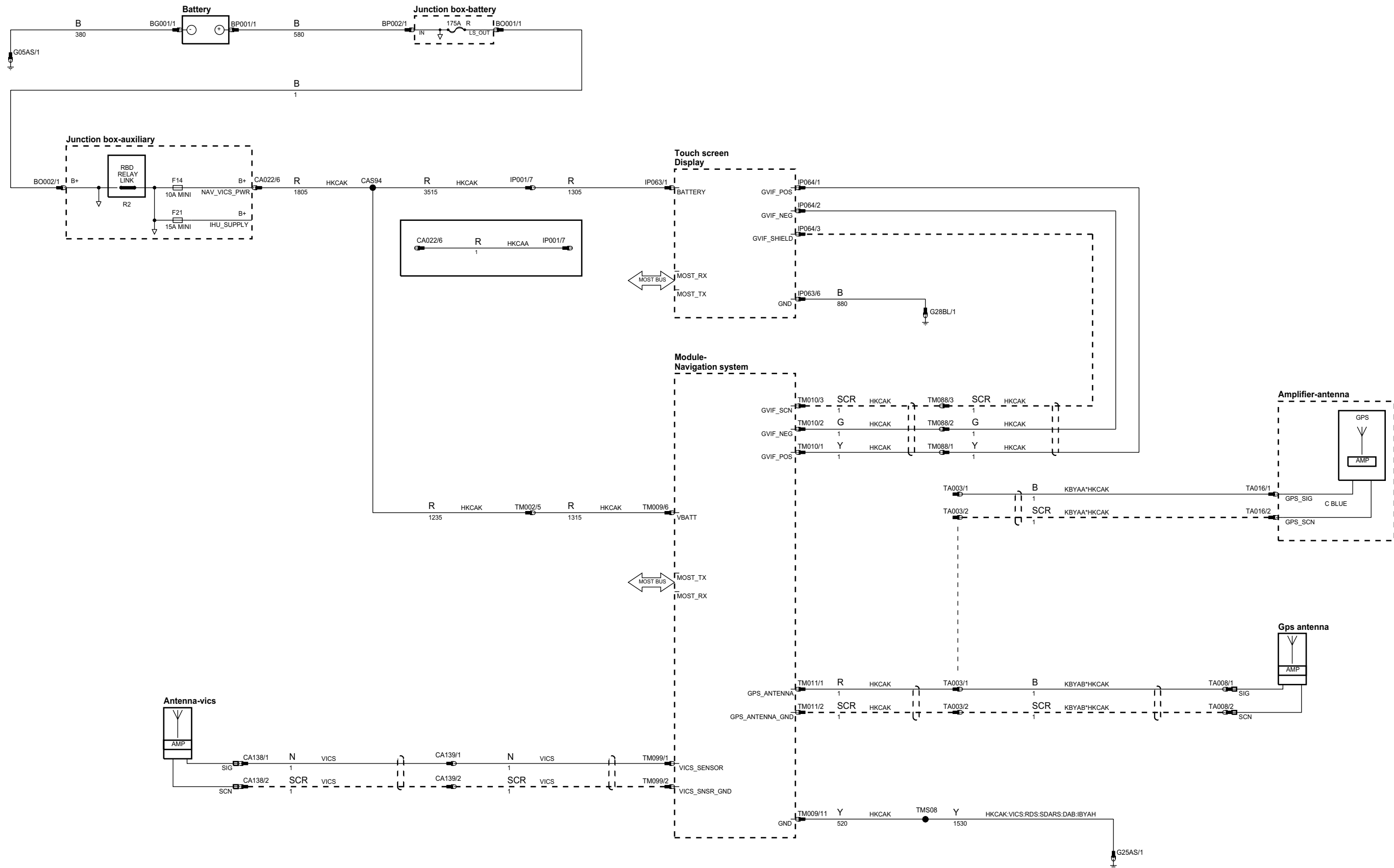
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

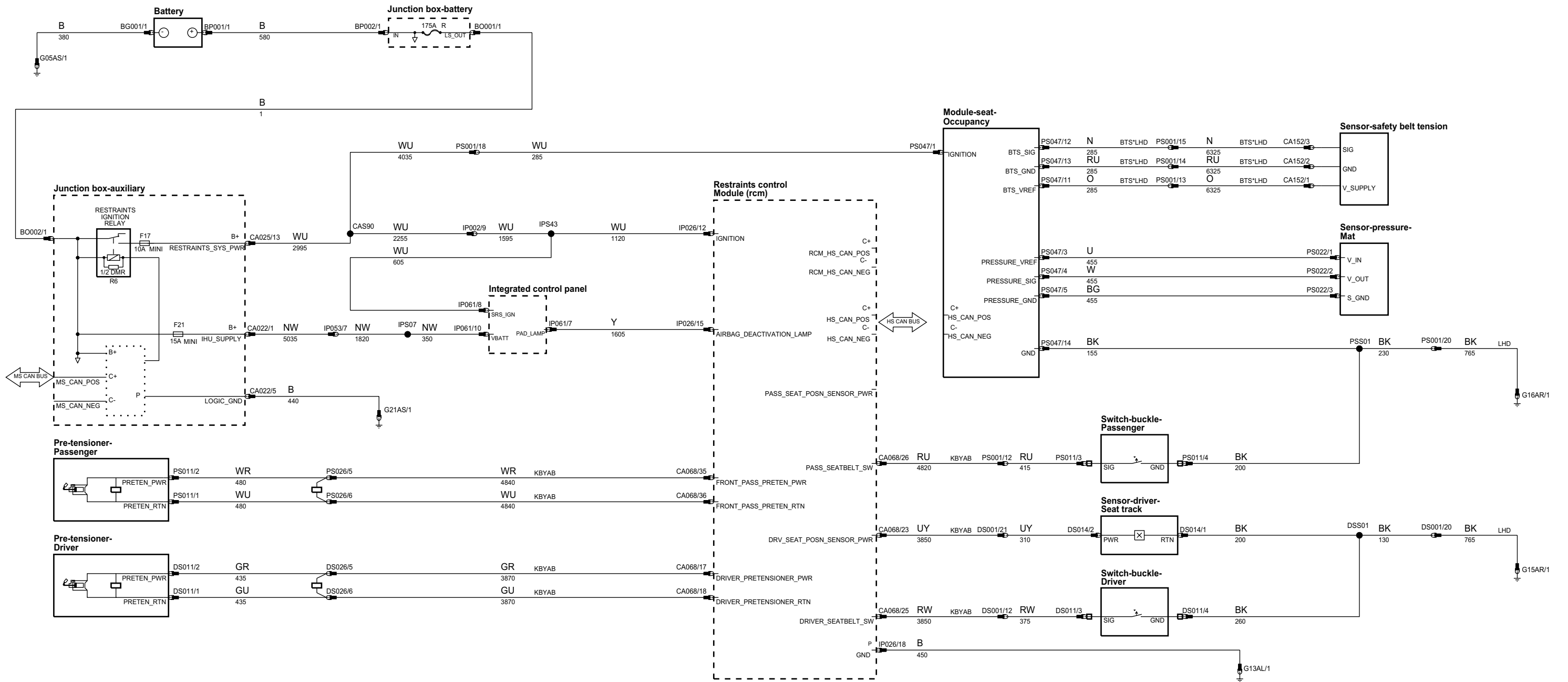
VARIANT: Yes  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

phcw83-70478-a-a4



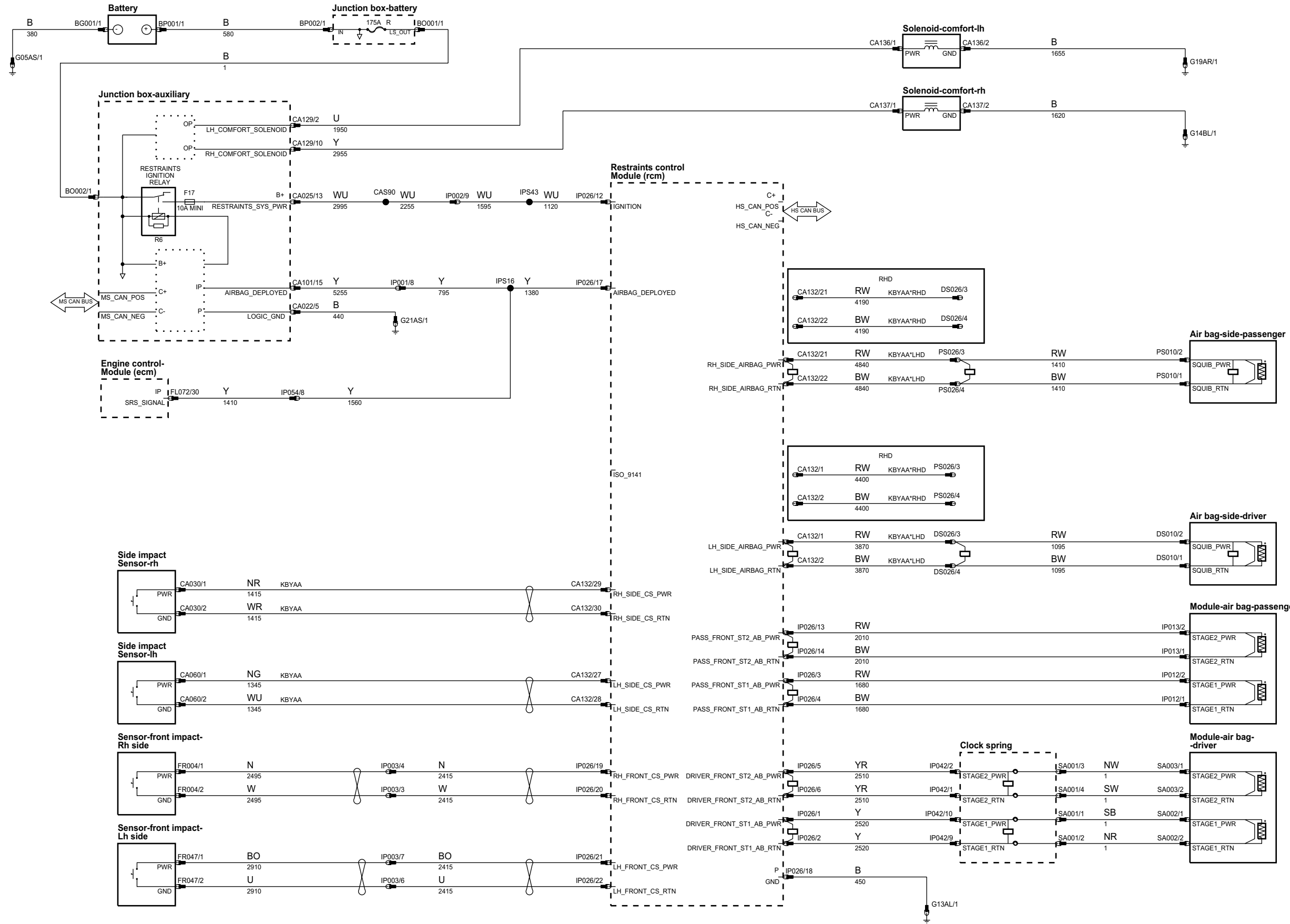
<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phow83-70150-a2-a4



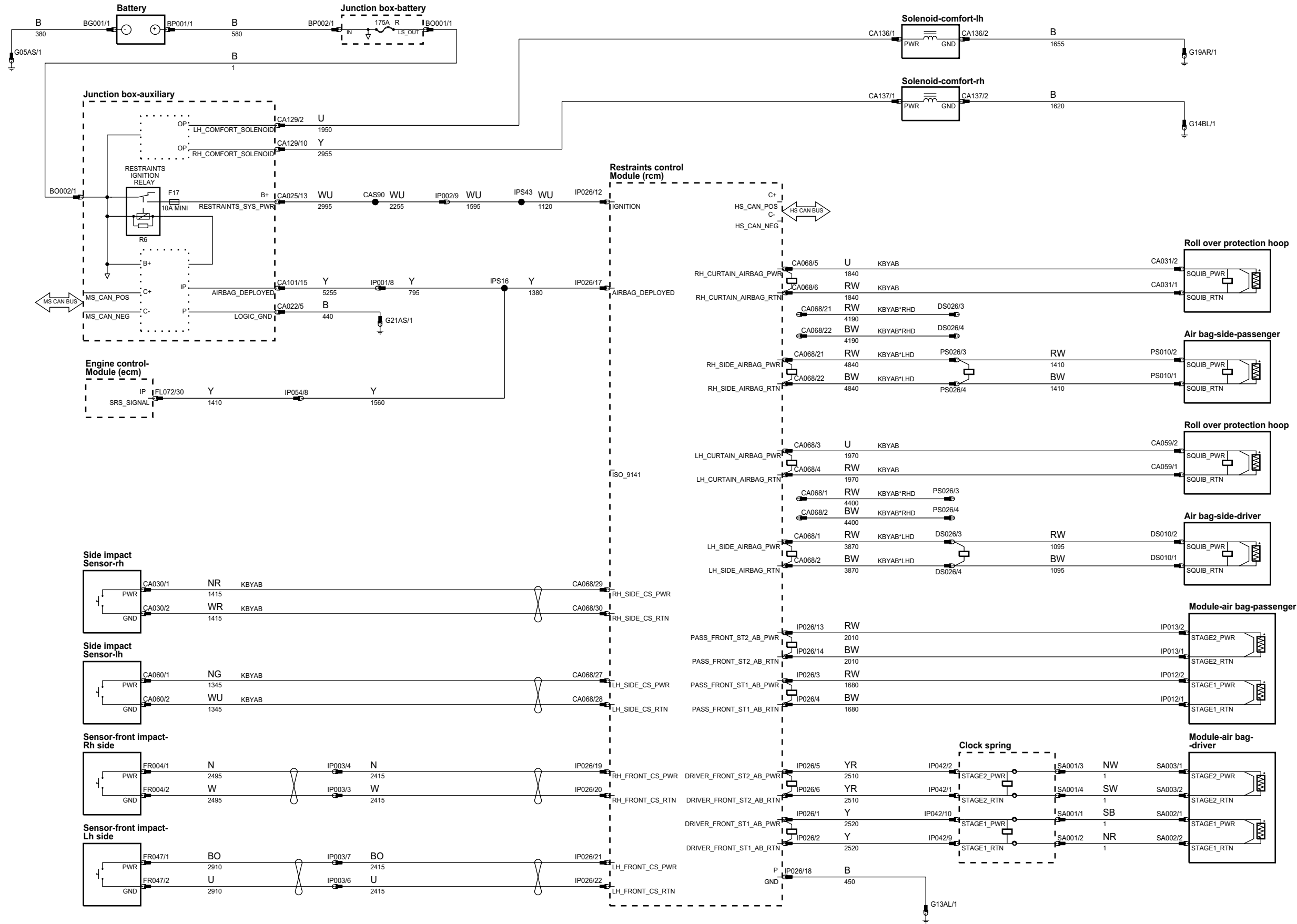
B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GRES Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phcw83-70150-b2-a4



<b>B-</b> Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRES</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

phcw83-70150-b-a4



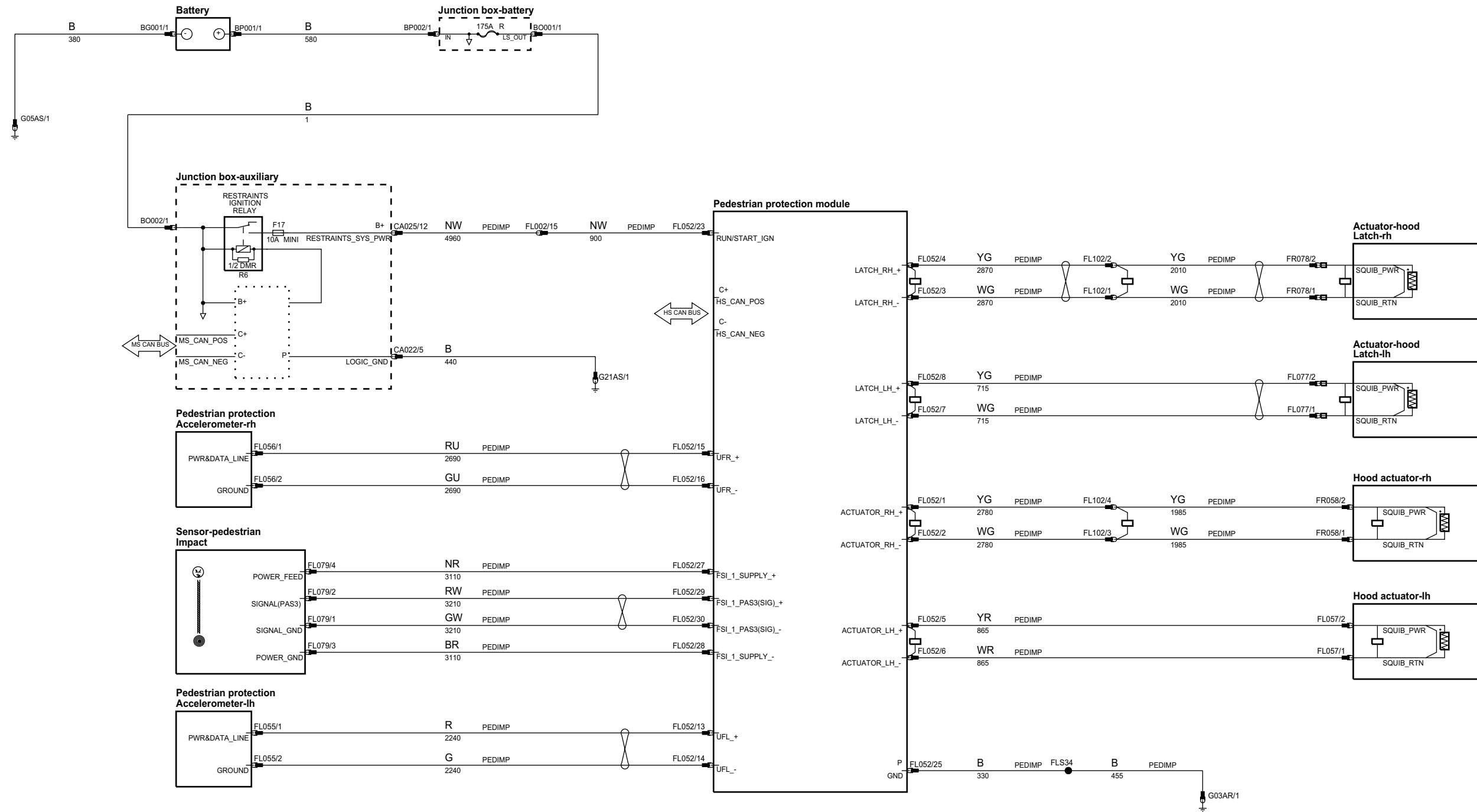
B- Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

VARIANT: Yes  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

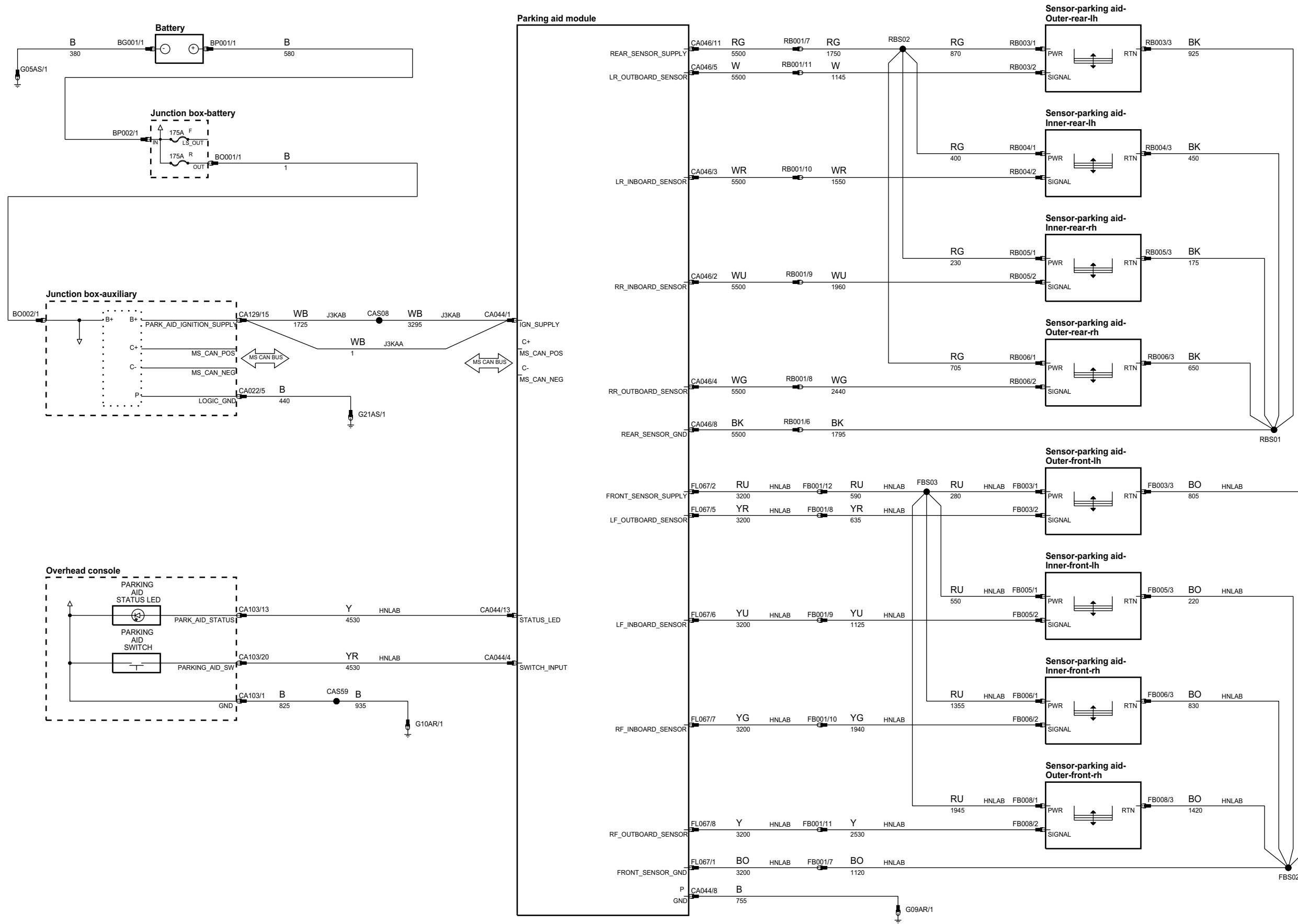
phcw83-70152-a-a4



<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011

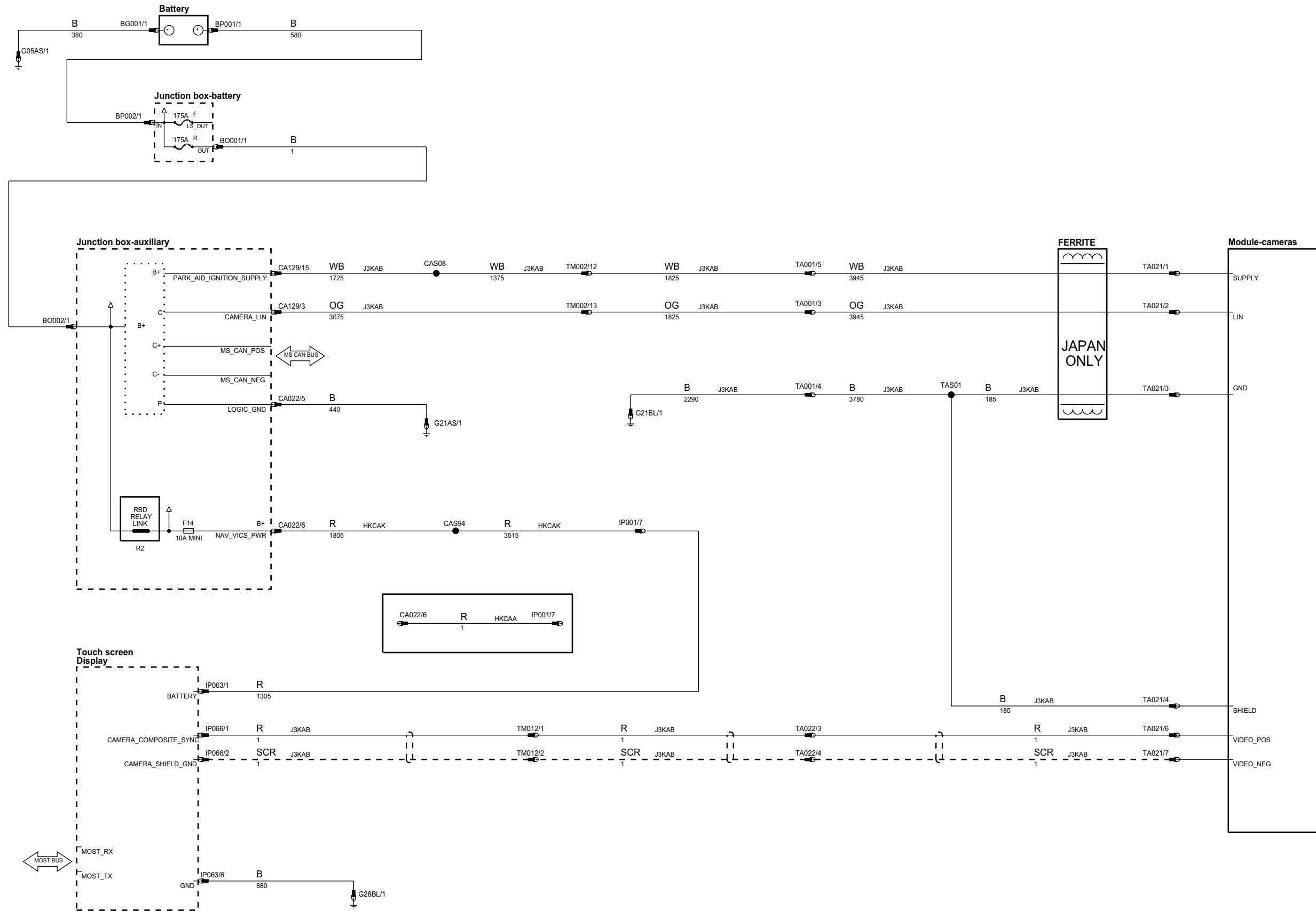
x

phcw83-70481-a-a4



B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: Yes
P Power Ground	OP Output	GREF Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

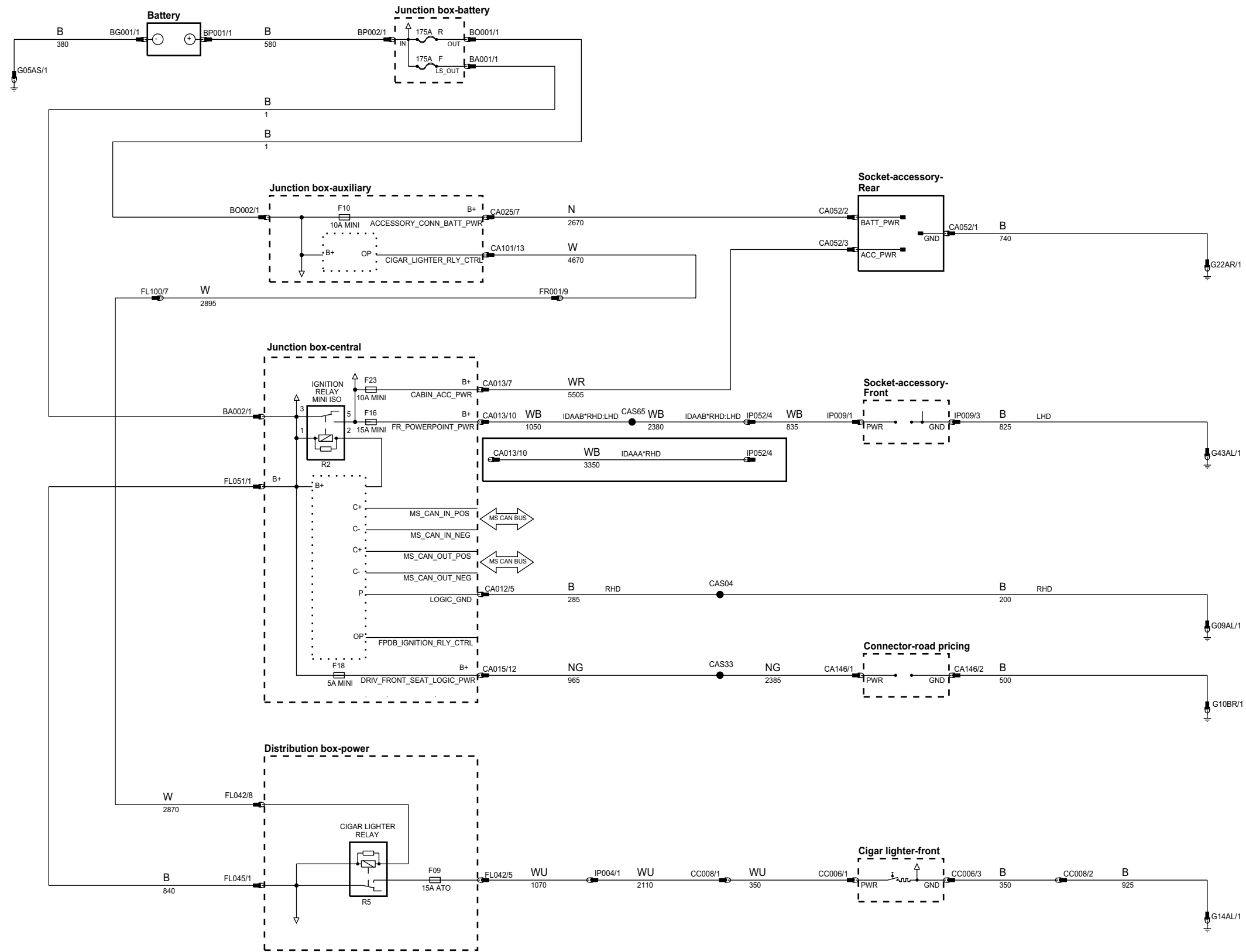
phcw83-70481-b-a4



<b>B</b> - Battery Voltage	<b>IP</b> Input	<b>VREF</b> Sensor/Signal Supply V	<b>HS CAN BUS</b> High speed controller area network bus	<b>MOST BUS</b> Media oriented systems transport bus	<b>VARIANT:</b> Yes
<b>P</b> Power Ground	<b>OP</b> Output	<b>GRF</b> Sensor/Signal Ground	<b>MS CAN BUS</b> Medium speed controller area network bus	<b>D</b> Serial and Encoded Data	<b>VIN RANGE:</b> All
					<b>DATE OF ISSUE:</b> 07/2011



phw03-70172-a-04



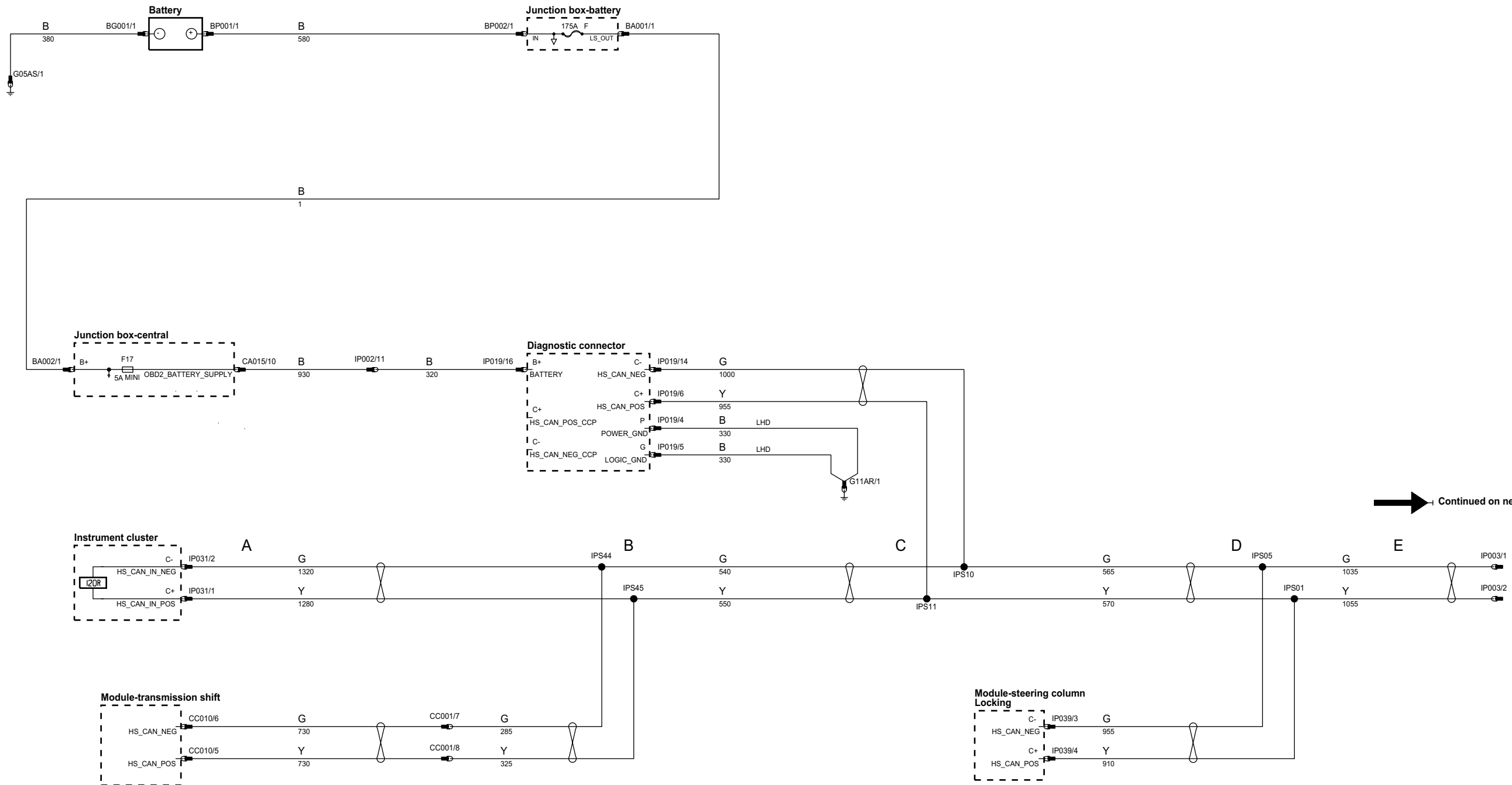
B- Battery Voltage  
P Power Ground  
IP Input  
OP Output  
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

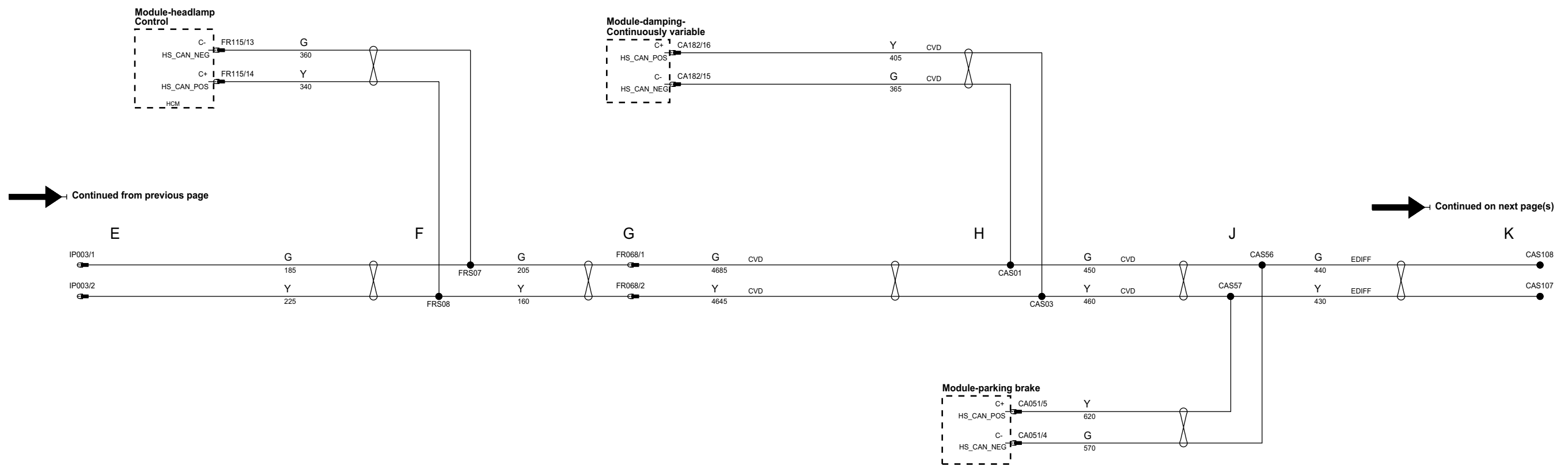
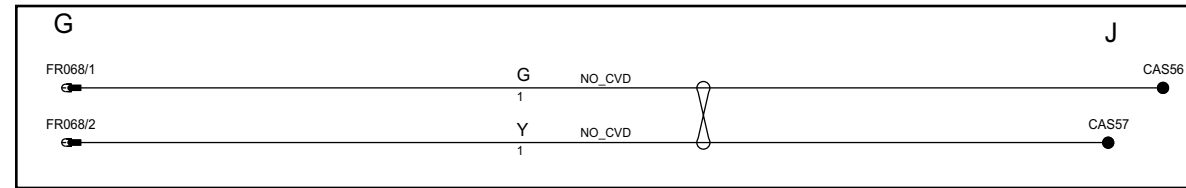
phcw83-70016-b2-a4



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B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GRES Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

phcw83-70016-b3-a4

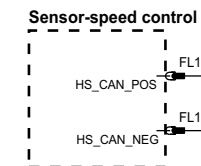
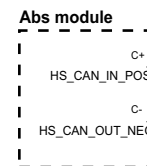
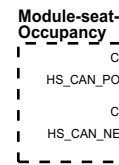
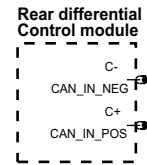
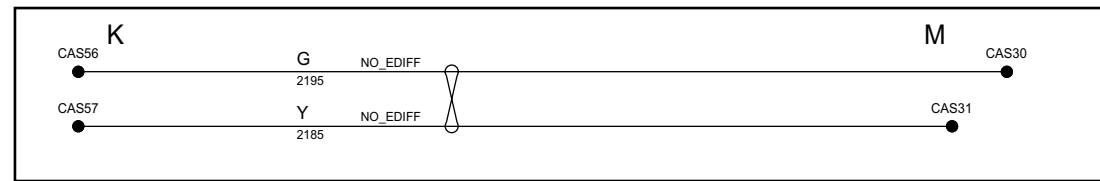


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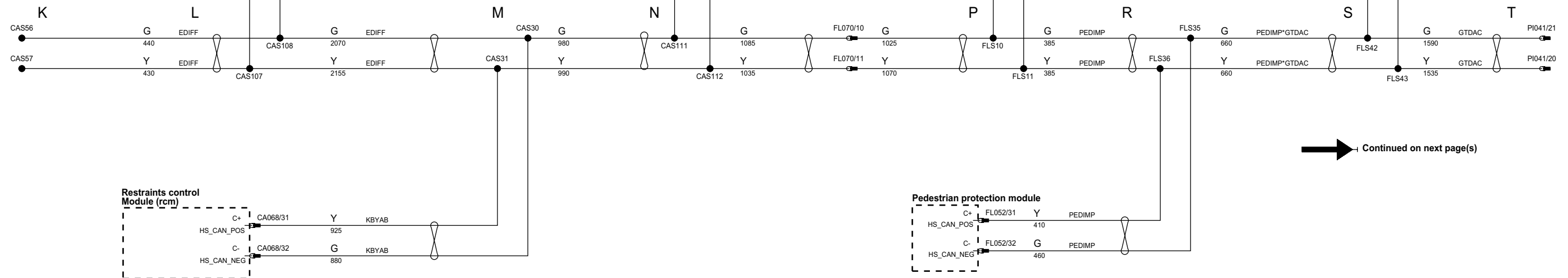
Continued on next page(s)

B- Battery Voltage	IP Input	VREF Sensor/Signal Supply V	HS CAN BUS High speed controller area network bus	MOST BUS Media oriented systems transport bus	VARIANT: All
P Power Ground	OP Output	GRES Sensor/Signal Ground	MS CAN BUS Medium speed controller area network bus	D Serial and Encoded Data	VIN RANGE: All
					DATE OF ISSUE: 07/2011

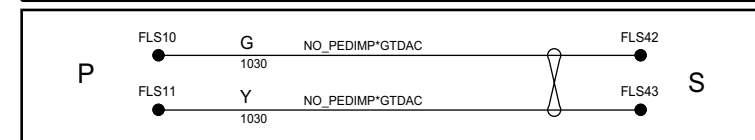
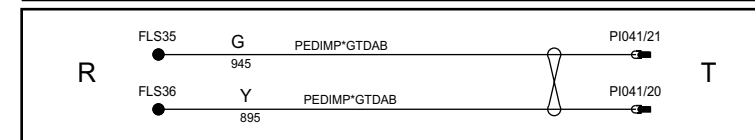
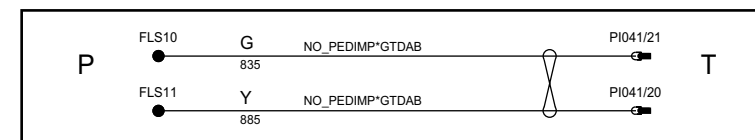
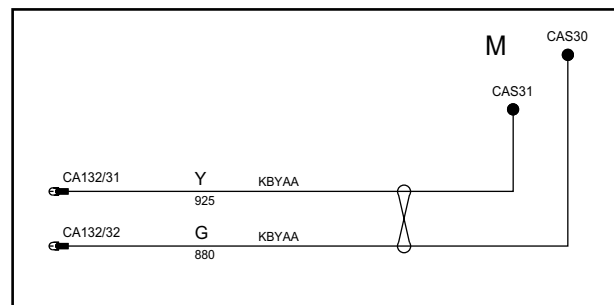
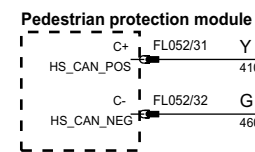
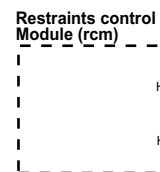
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B- Battery Voltage  
P Power Ground

IP Input  
OP Output

VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

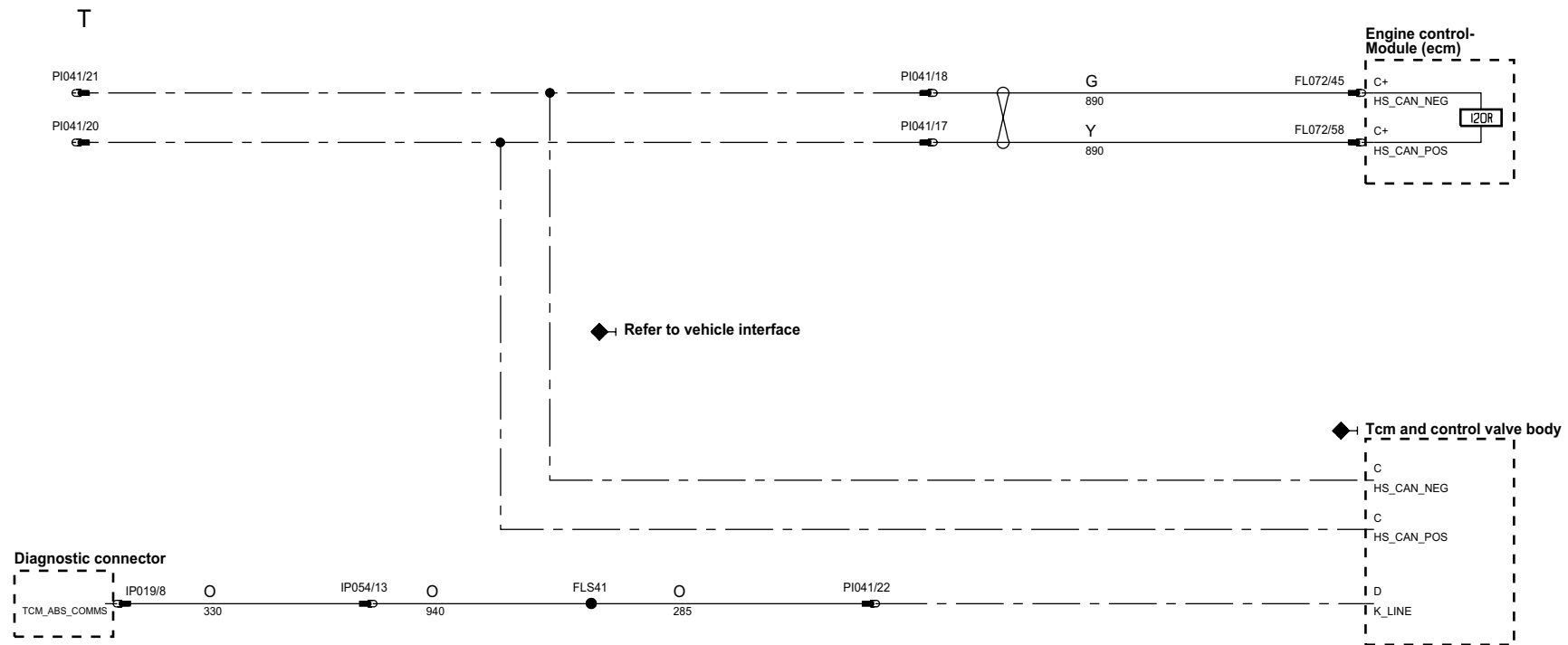
HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

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B- Battery Voltage  
P Power Ground

IP Input  
OP Output

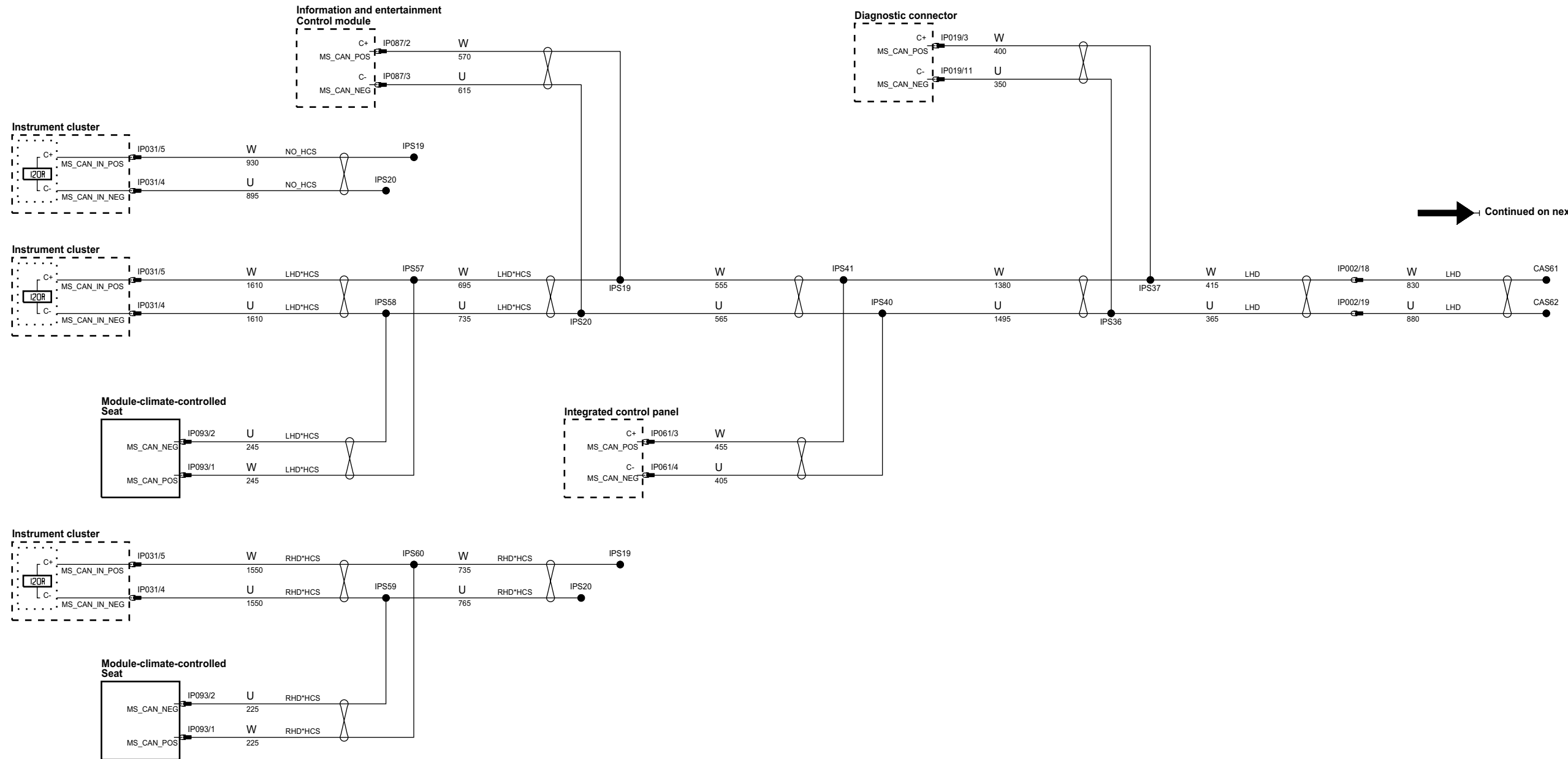
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

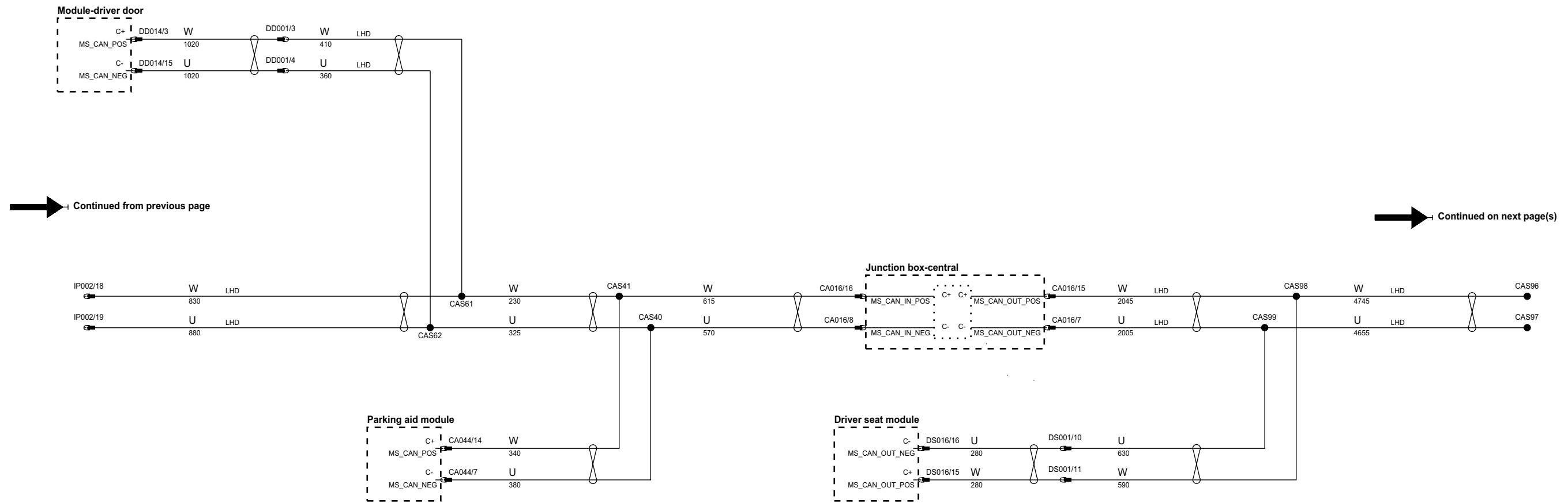
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DATE OF ISSUE: 07/2011

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B- Battery Voltage  
P Power Ground

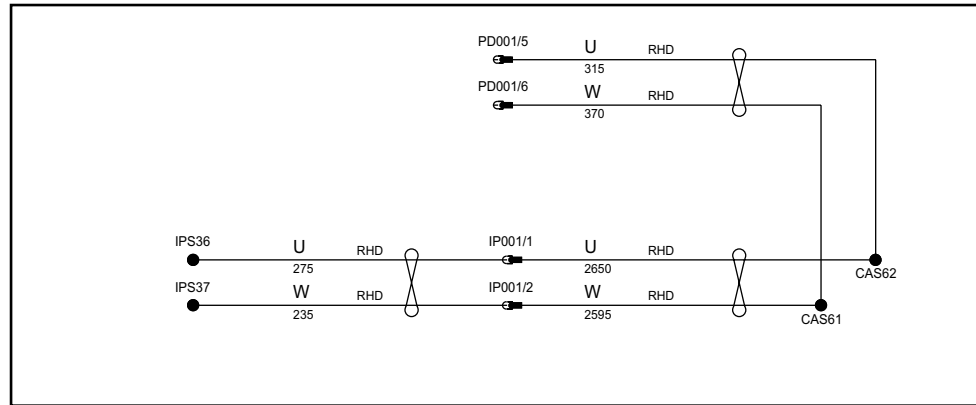
IP Input  
OP Output

VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

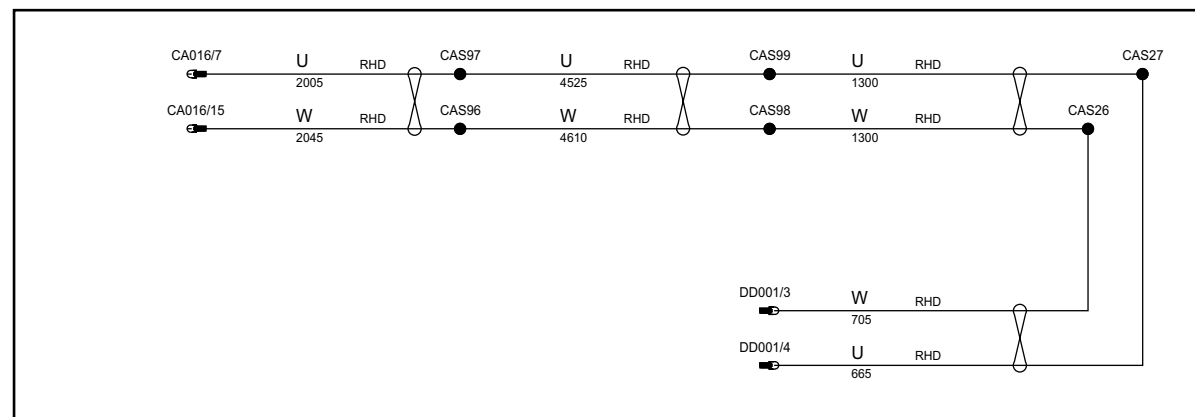
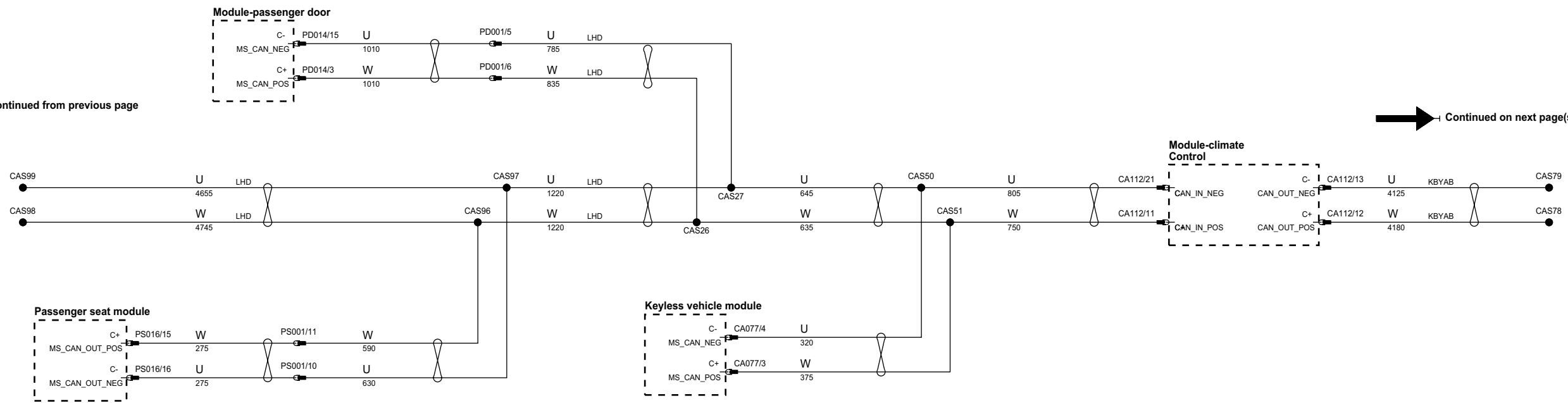
MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011



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B- Battery Voltage  
P Power Ground

IP Input  
OP Output

VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

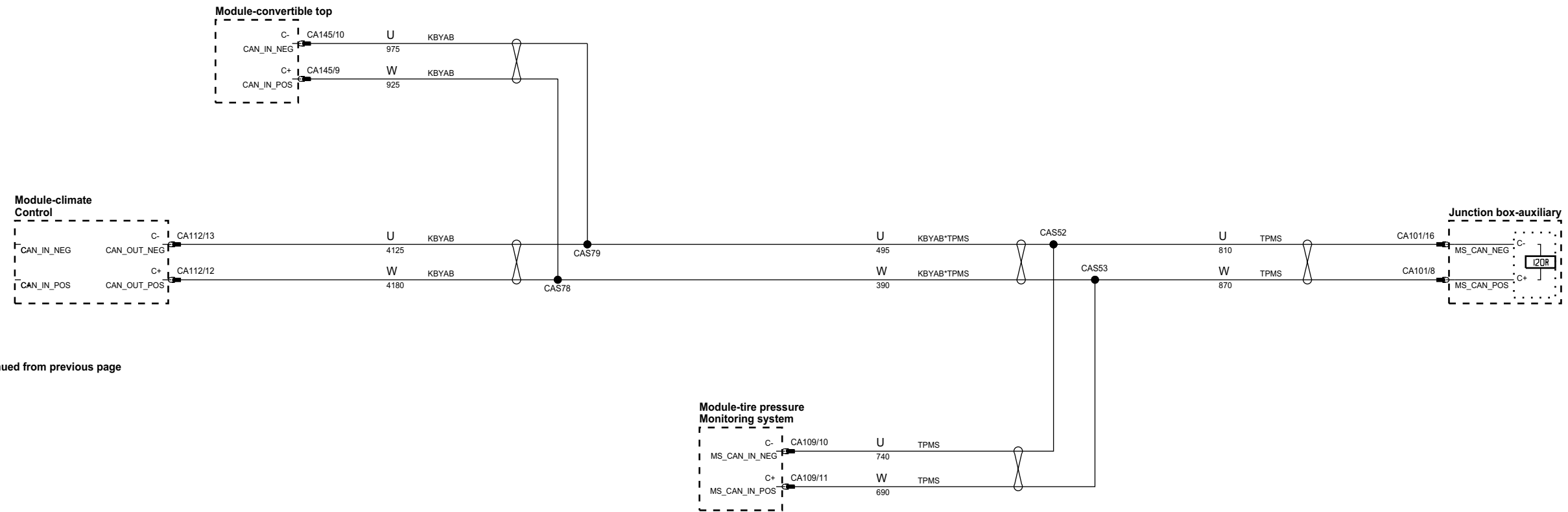
HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

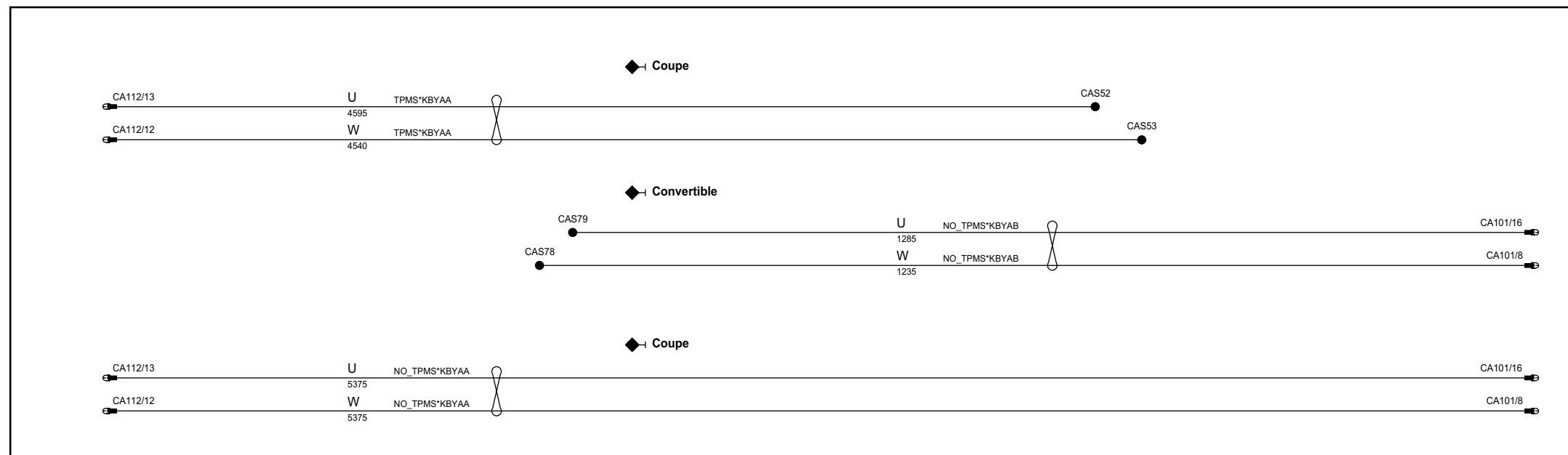
VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011



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B- Battery Voltage  
P Power Ground

IP Input  
OP Output

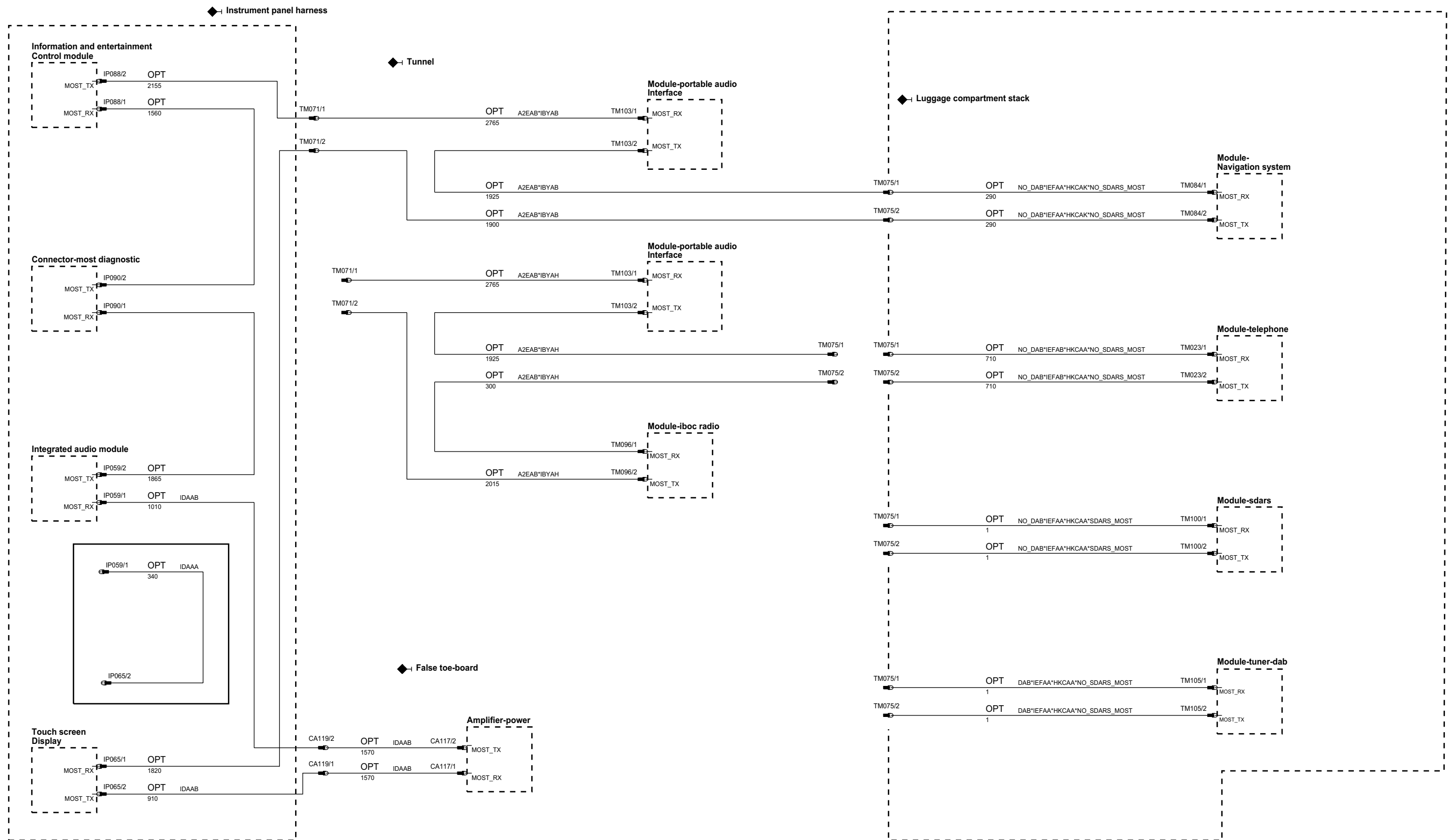
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

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B- Battery Voltage  
 P Power Ground  
 IP Input  
 OP Output  
 VREF Sensor/Signal Supply V  
 GREF Sensor/Signal Ground

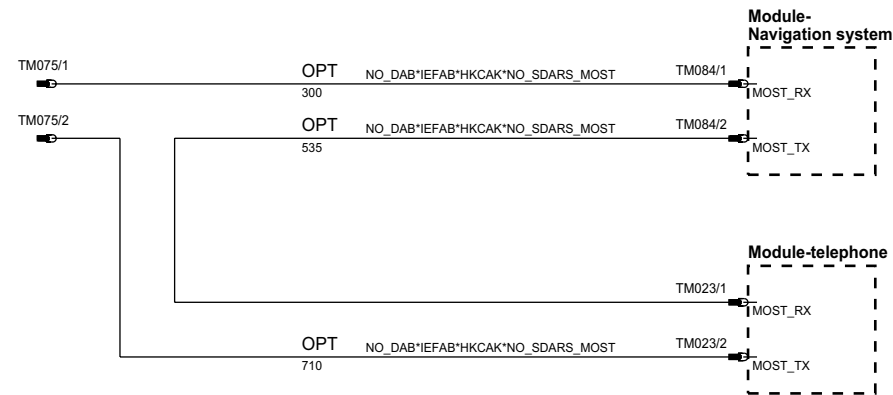
HS CAN BUS High speed controller area network bus  
 MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
 D Serial and Encoded Data

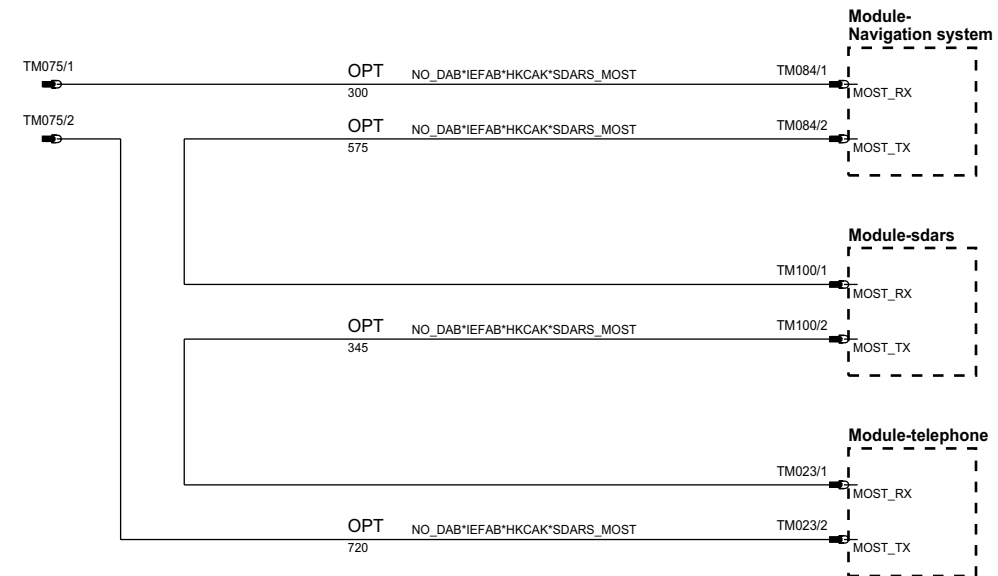
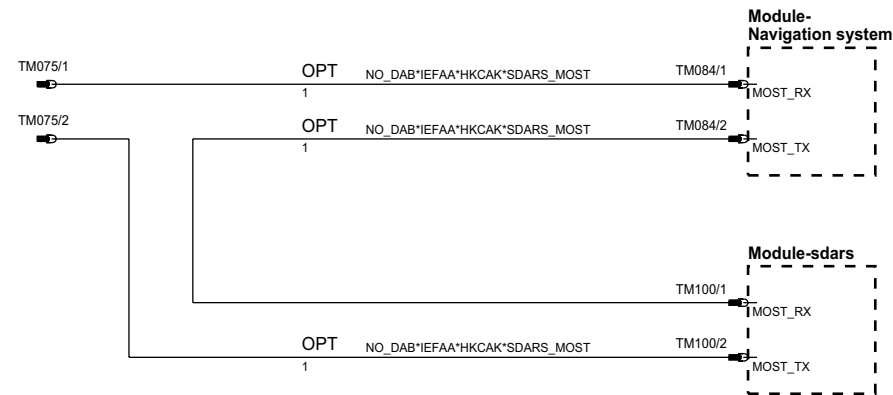
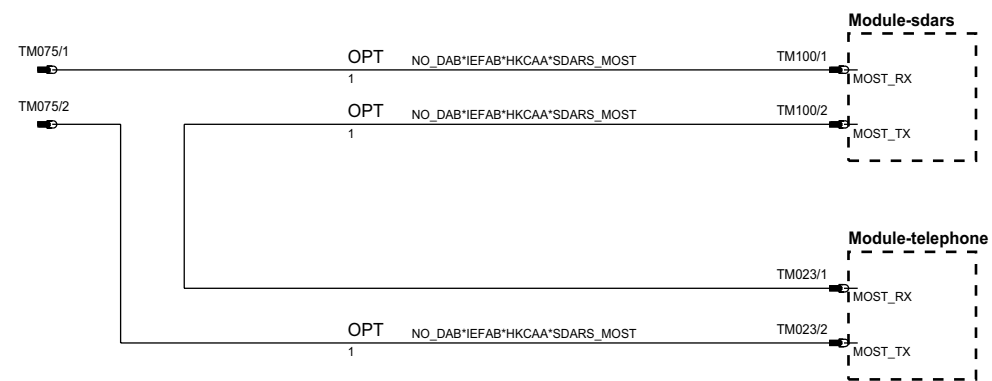
VARIANT: All  
 VIN RANGE: All  
 DATE OF ISSUE: 07/2011

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◆ Luggage compartment stack



◆ Luggage compartment stack



B- Battery Voltage  
P Power Ground

IP Input  
OP Output

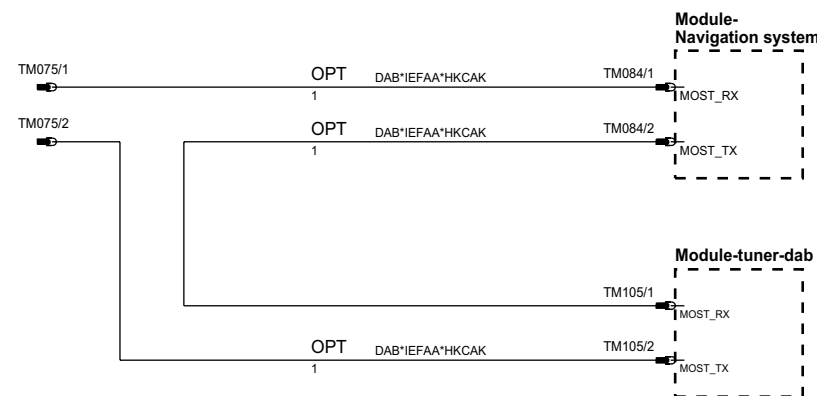
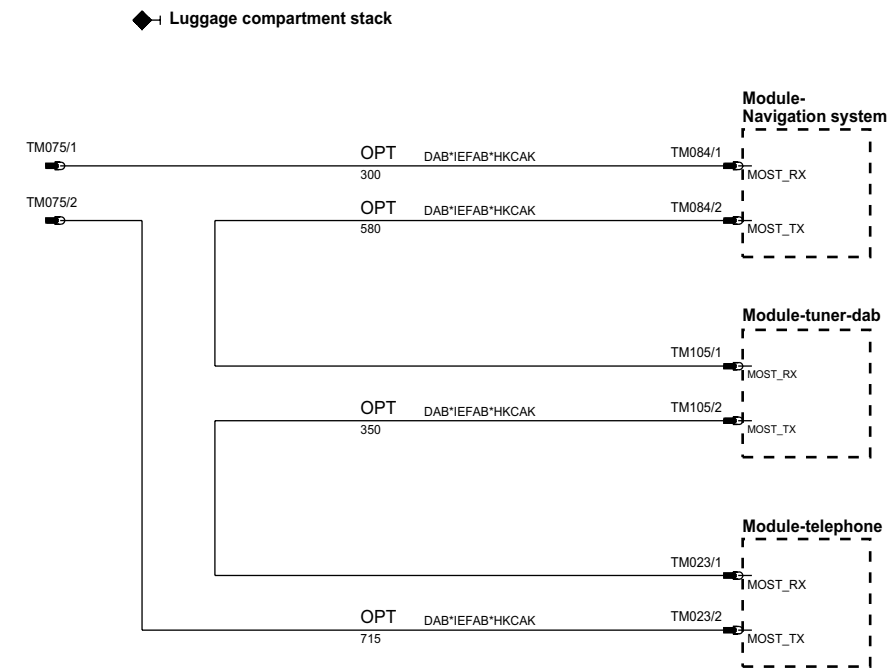
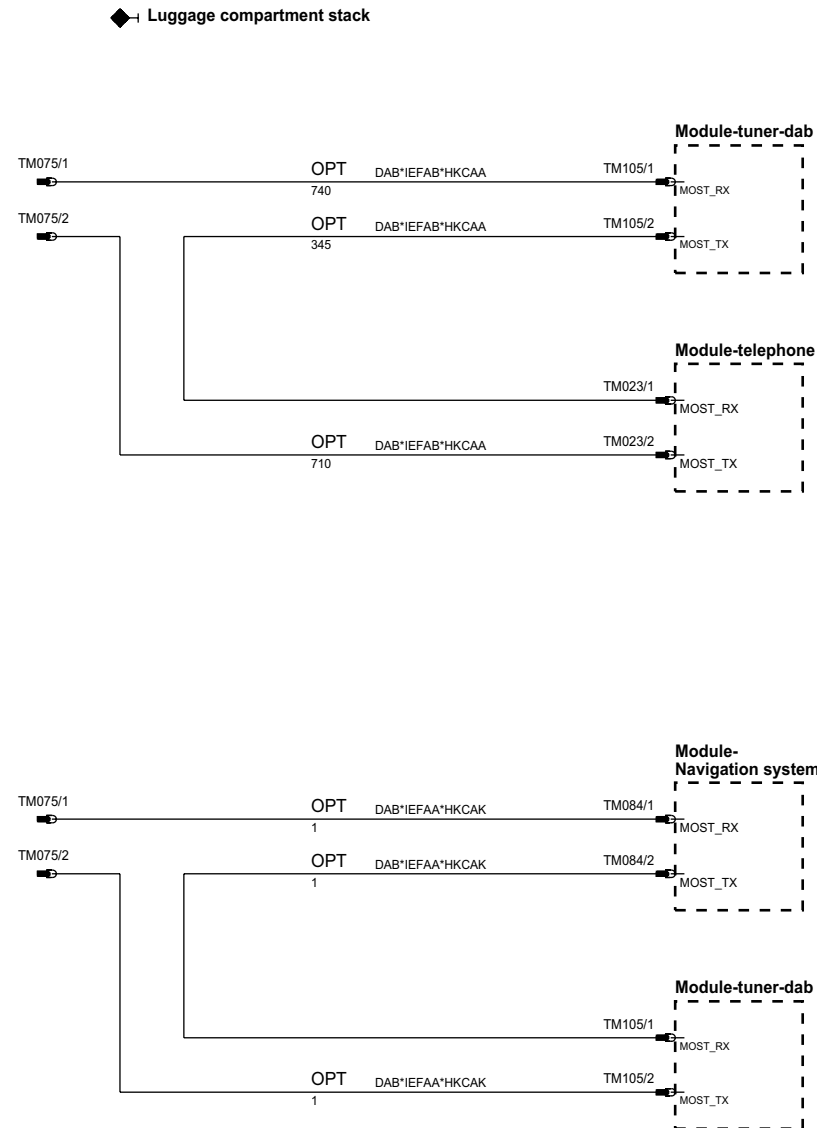
VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011

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B- Battery Voltage  
P Power Ground

IP Input  
OP Output

VREF Sensor/Signal Supply V  
GREF Sensor/Signal Ground

HS CAN BUS High speed controller area network bus  
MS CAN BUS Medium speed controller area network bus

MOST BUS Media oriented systems transport bus  
D Serial and Encoded Data

VARIANT: All  
VIN RANGE: All  
DATE OF ISSUE: 07/2011



