



## **AMBULANCE** *Body Integration*

When specifying out a new truck for a customer, it is important to consider the body that will get mounted to the chassis. International has invested in specific features on our chassis such as the Diamond Logic electrical system to help the body installer mount their equipment with high quality in an efficient manner.

**The following pages include feature codes specifically designed for ease of body integration.**

### **FEATURE CODES/ DESCRIPTIONS:**

#### **Body Lighting**

<b>08HAA</b>	BODY BUILDER WIRING To Rear of Frame, With Stop, Tail, Turn, and Marker Lights Circuits, Ignition Controlled Auxiliary Feed and Ground, Less Trailer Socket
<b>08HAB</b>	BODY BUILDER WIRING Back of Cab at Frame, Includes Sealed Connectors for Tail/Amber Turn/ Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
<b>08HAE</b>	BODY BUILDER WIRING Rear of Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
<b>08HAU</b>	BODY BUILDER WIRING INSIDE CAB; Includes Sealed Connectors for Tail/Amber, Turn/Marker/Backup/Accessory, Power/Ground, and Stop/Turn
<b>08HBX</b>	BODY BUILDER WIRING Back of Day Cab at Left Frame or Under Extended or Crew Cab at Left Frame with Pigtail; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn

*Other body builder connections are available. Refer to the PDB-71000 sales book*

#### **Remote Engine Speed Control**

<b>12VXT</b>	Sets the engine to a stationary variable mode.
<b>12VXU</b>	Sets the engine to a stationary preset mode.
<b>12VXV</b>	Sets the engine to a mobile variable mode.
<b>12XBM</b>	Remote mounted body builder interface wiring for engine speed control with Cummins B6.7 and L9 engines

#### **Exhaust Regeneration Inhibit**

<b>07WZX</b>	Exhaust regeneration inhibit switch, momentary, resets when key off
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#### **High Amperage Switch**

<b>08XBK</b>	Control one auxiliary load up to 40 Amps with a factory-installed switch for a high amperage load such as a light bar. Power available in "IGNITION" or "ACCESSORY" key states.
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#### **Passenger Control of Air Horn**

<b>08XKM</b>	Instrument panel mounted switch to enable the passenger to engage the air horn
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## Air Accessory Controls

<b>08WGA/ 08WGB/ 08WGC/ 08WGD</b>	Provides 1 / 2 / 3 / 4 normally closed air solenoids to be used as a pilot air source. Includes latched switch in cab; air is available only with key in 'IGNITION" or "ACCESSORY" positions
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## Headlight Features

<b>08WRB</b>	Headlights will automatically turn on if windshield wipers are turned on
<b>08WXB</b>	Headlight warning buzzer; Warning sounds when Head Light Switch is on and Ignition Switch is in "Off" Position
<b>60AKK</b>	Wig Wag Hi-Beam with park brake interlock. Park brake disables wig wag
<b>60AKL</b>	Wig Wag Hi-Beam with park brake interlock. Park brake disables hi-beam wig wag, enables low-beam wig wag.

## Windshield Wiper Speed Control

<b>08WGL</b>	Force wipers to slowest intermittent speed when park brake set and wipers left on for a predetermined time
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## Pre-Trip Exterior Light Inspection

<b>08WPZ</b>	Pre-trip inspection will cycle exterior lamps, except back-up lights
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## Power Windows and Locks

<b>16WJU</b>	(2) Power windows and locks, with express down feature
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## Park Brake Alarm

<b>08XHC</b>	Electric horn sounds in repetitive manner when vehicle park brake is "NOT" set, with ignition "ON" or "OFF" and any door opened
<b>08WXD</b>	Electric horn sounds in repetitive manner when vehicle park brake is "NOT" set, with ignition "OFF" and any door opened

## Jump Start Stud

<b>08WBW</b>	Provides remote jump start stud on the outside of the battery box that eliminates the need to remove the battery box cover when jump starting is required
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## Back-Up Alarm

<b>08THB</b>	Provides a 102 dBA audible alarm when a vehicle is operated in reverse gear
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## Keyless Features

<b>08630</b>	Keyless ignition switch
<b>16WKZ</b>	Remote keyless entry: key fob to control remote keyless entry, with panic & auxiliary buttons

## Battery Disconnect Switch

<b>08WJV</b>	For Cab Power Disconnect Switch; Cab Mounted, Lever Operated, Disconnects Power to PDC, Does Not Disconnect Charging Circuits. (HV)
<b>08WZP</b>	Green “Battery On” indicator light on left side of dash.
<b>08XHV</b>	Cab Power Disconnect Switch, Cab Mounted, Disconnects power to PDC and body builder through solenoid, does not disconnect charging circuits, locks with padloc

## Ammeter

<b>16HHT</b>	Provides ammeter gauge in center panel
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## Two-Way Radio Wiring Effects

<b>08REA*</b>	10’ wiring coil under the instrument panel for optimal radio placement. (HV/HX/MV)
<b>08RGA*</b>	Wiring in the center of the header console in the cab. (HV/HX/MV)

*\* Both 08REA and 08RGA provide radio power and ground directly from the battery to minimize electrical noise on the line*

## Body Builder Wiring

<b>08HAT</b>	WIRING, SPECIAL Includes Wires Installed Through the Dash Panel and End in Engine Compartment, In Cab Wire Ends Will Have ESC Input Terminals, Engine Compartment Wire Ends will have Sealed Connectors
<b>13WDH</b>	BODY BUILDER Transmission Wiring – Installed wiring for transmission/PTO controls for Allison 2000, 2100, 2200, 2400, 2500 series transmission only
<b>60ACW</b>	I/O EXPANSION HARNESS (for Diamond Logic Builder) In-Cab Wire Harness (DLB) Program Only, Includes a Harness with five blunt cut Wires routed on lower left of Instrument Panel. Two ground active inputs and two ground (.5Amp) Relay Driver outputs are provided

## Spare Input/ Output For Automatic Transmissions

<b>13WVB</b>	ALLISON SPARE INPUT/OUTPUT for Emergency Vehicle Series (EVS), 170 Includes J1939 Based Auto Neutral; Rescue, Ambulance
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## Transmission Control Module (TCM) Location

<b>13WYH</b>	Transmission control module located inside cab
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## Data Recorders and Seatbelt Warning Prewire

<b>08TPA</b>	DATA RECORDER, Weldon, NFPA 1901 compliant, Includes seat belt display mounted in overhead console
<b>16HCK</b>	SEATBELT WARNING PREWIRE, includes seat belt switches and seat sensors for all belted positions in the cab and a harness routed to the center of the dash for the aftermarket installation of the data recorder and seatbelt indicator systems, for 1 to 3 seat belts
<b>16HCL</b>	SEATBELT WARNING PREWIRE, includes seat belt switches and seat sensors for all belted positions in the cab and a harness routed to the center of the dash for the aftermarket installation of the data recorder and seatbelt indicator systems, for 4 to 6 seat belts

## PTO Controls

You must determine the type of PTO that will be added to know which PTO accommodation is appropriate:

- Transmission mounted
- Engine mounted
- Transfer case mounted

All International PTO accommodation packages are appropriate for transmission mounted PTOs, as well as transfer case mounted PTOs. To add an engine mounted PTO, order feature code 60ABE.

In addition, you must determine the type of PTO engagement that will be added. International has released features to accommodate the five most popular PTO engagement types:

- Electric engagement
- Hydraulic engagement
- Constant engagement
- Air (clutched/non-clutched) engagement
- Cable/Lever engagement

Power Take Off Engagement Type	Chelsea® Models	Muncie® Models	International® Feature
Air (non-clutched)	442/489 Series (A)	TG, SH or 82 Series	60ABK
Air (clutched)	230/236 Series (A)	CS Series (CS8/6 Air Only)	60ABL
Hydraulic	270/271/277/278/85	CS Series (CS10/20/6 Hyd Only)	60ABE

## PTO Controls and Hourmeter

<b>16WLM</b>	HOURMETER, PTO for Customer Provided PTO; Indicator Light and Hour meter in Gauge Cluster Includes Return Wire for PTO Feedback Switch.
<b>60ABE</b>	BODY INTG, PTO ACCOMMODATION for Electric over Hydraulic PTO, Does Not Include Solenoids, With Switch Mounted on Dash, Includes Audible Alarm and Indicator Light in Gauge Cluster, (Requires 1 Remote Power Module input & 1 output)

## Remote Power Modules and Associated Features

Remote power modules are the gateway to body integration. Each remote power module includes 6 power outputs and 6 switch inputs. Customers should inform their International dealer or body builder company if they intend to utilize this form of body integration on their vehicle.

<b>60AAA</b>	One Remote Power Module, back of cab, for bodybuilder to integrate additional lights (up to six 20 Amp loads, 80 Amp max)
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<b>60AAB</b>	Two Remote Power Modules, back of cab, for up to 12 outputs and inputs (20 Amps each, 80 Amp max per module).
<b>60AAG</b>	BDY INTG, REMOTE POWER MODULE (1) Mounted Inside Cab behind Driver Seat on DuraStar and WorkStar Series Up to 6 Outputs & 6 Inputs, Max. 20 Amps. per Channel, Max. 80 Amps. Total (Includes 1 Switch pack with 6 Latched Switches)
<b>60AAH</b>	REMOTE POWER MODULE (2) Mounted inside Cab behind Driver Seat; Up to 6 Outputs & 6 Inputs each, Max. 20 amps. Per Channel, Max. 80 amp Total (Includes 2 Six Switch Packs with Latched Switches)
<b>60AAJ</b>	REMOTE POWER MODULE (3) Mounted Inside Cab behind Driver Seat; Up to 6 Outputs & 6 Inputs each, Max. 20 amps. Per Channel, Max. 80 amp Total (Includes 3 Six Switch Packs with Latched Switches)

### ***Enhancements for additional functionality, using Remote Power Module features:***

<b>60ACE</b>	Dual Output Switch, control one auxiliary load up to 40 Amps with a factory-installed switch connected to two Remote Power Module outputs for a high Amperage load such as a light bar. Power available in "IGNITION" or "ACCESSORY" key states. (requires 2 Remote Power Module outputs)
<b>60ACG / 60ACH</b>	Switches Interlocked to Vehicle Speed, 1 or 2 switches that will disengage a body feature if the vehicle exceeds a certain MPH or other parameter
<b>60ACS / 60ACT / 60ACU</b>	Replaces 1 / 2 / 3 latched switches with momentary switch(s) that provide control of body equipment from the cab and a location on the body for features such as cabinet lights and other body lights. (HV/HX/MV)

### **Additional Indicator Lights**

<b>60AKY</b>	BDY INTG, DASH IND LT TRICOLOR (1) for Optional Usage Customer to Program.
<b>60AKZ</b>	BDY INTG, DASH IND LT TRICOLOR (2) for Optional Usage Customer to Program.
<b>60ALA</b>	BDY INTG, DASH IND LT TRICOLOR (3) for Optional Usage Customer to Program.
<b>60ALB</b>	BDY INTG, DASH IND LT TRICOLOR (4) for Optional Usage Customer to Program.
<b>60ALC</b>	BDY INTG, DASH IND LT TRICOLOR (5) for Optional Usage Customer to Program.
<b>60ALD</b>	BDY INTG, DASH IND LT TRICOLOR (6) for Optional Usage Customer to Program.
<b>60ALE</b>	BDY INTG, DASH IND LT TRICOLOR (7) for Optional Usage Customer to Program.
<b>60ALG</b>	BDY INTG, DASH IND LT TRICOLOR (8) for Optional Usage Customer to Program.
<b>60ALH</b>	BDY INTG, DASH IND LT TRICOLOR (9) for Optional Usage Customer to Program.
<b>60ALJ</b>	BDY INTG, DASH IND LT TRICOLOR (10) for Optional Usage Customer to Program.
<b>60ALK</b>	BDY INTG, DASH IND LT TRICOLOR (11) for Optional Usage Customer to Program.
<b>60ALL</b>	BDY INTG, DASH IND LT TRICOLOR (12) for Optional Usage Customer to Program.



## Diamond Logic Builder Custom Software Programming Features

- Load sequencing
- Load management
- Low voltage indicator & alarm
- Parking brake signal
- Neutral signal
- Door Open warning light/alarm
- Siren module control from steering wheel
- Auto ramp of engine speed with low voltage/ A/C on
- Air suspension dump control from rear door with key off
- Unlock power door locks w/ parking brake
- Control auto chains
- HVAC compressor cut out during acceleration from a stop
- Lighting features:
  - Master switch
  - Upper/lower flashing warning lights
  - Rear, right and left flood lights
  - Front grill lights
  - Compartment lights
  - Step lights
  - Cabinet lights
  - Cab light bars
  - 110V AC floodlights
  - Set up body lights to work with Pre-trip light inspection