



UTILITY 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

08HAA	BODY BUILDER WIRING To Rear of Frame, With Stop, Tail, Turn, and Marker Lights Circuits, Ignition Controlled Auxiliary Feed and Ground, Less Trailer Socket
08HAB	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
08HAE	BODY BUILDER WIRING Rear of Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
08HAU	BODY BUILDER WIRING INSIDE CAB; Includes Sealed Connectors for Tail/Amber, Turn/Marker/Backup/Accessory, Power/Ground, and Stop/Turn

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

Remote Engine Speed Control

12VGA	Remote mounted body builder interface wiring for engine speed control with International A26 engines. (HV/HX)
12XBM	Remote mounted body builder interface wiring for engine speed control with Cummins B6.7 and L9 engines. (HV/MV)
12VXT	Sets the engine to a stationary variable mode. (HV/MV)
12VXU	Sets the engine to a stationary preset mode. (HV/MV)

Exhaust Regeneration Inhibit

07WZX	Exhaust regeneration inhibit switch, momentary, resets when key off. (HV/HX/MV)
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Work Light Accommodation

08WMA	SWITCH, TOGGLE, FOR WORK LIGHT Lighted; on Instrument Panel and Wiring Effects for Customer Furnished Back of Cab Light (HV/HX/MV)
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High Amperage Switch

08XBK	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. (HV/HX/MV)
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Air Accessory Controls

08WGA/ 08WGB/ 08WGC/ 08WGD/ 08WKM	Provides 1 / 2 / 3 / 4 / 6 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. (HV/HX/MV)
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Windshield Wiper Speed Control

08WGL	Force wipers to slowest intermittent speed when park brake set and wipers left on for a predetermined time. (HV/HX/MV)
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Pre-Trip Exterior Light Inspection

08WPZ	Pre-trip inspection will cycle exterior lamps, except back-up lights. (HV/HX/MV)
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Headlight Features

08WRB	Headlights will automatically turn on if windshield wipers are turned on (HV/HX/MV)
08WXB	Warning buzzer sounds when headlight switch is on and ignition switch is in "Off" position (HV/HX/MV)
60AKK	Wig Wag Hi-Beam with park brake interlock. Park brake disables wig wag (HV/HX/MV)
60AKL	Wig Wag Hi-Beam with park brake interlock. Park brake disables hi-beam wig wag, enables low-beam wig wag. (HV/HX/MV)

Park Brake Alarm

08WXD	Electric horn sounds in repetitive manner when vehicle park brake is "NOT" set, with ignition "OFF" and any door opened. (HV/HX/MV)
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Theft Deterrent System

60ACX	Limits vehicle mobility by requiring a pre-selected code to be entered to drive vehicle. (HV/HX/MV)
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Back-Up Alarm

08THB	Provides a 102 dBA audible alarm when a vehicle is operated in reverse gear. (HV/HX/MV)
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Two-Way Radio Wiring Effects

08REA*	10' wiring coil under the instrument panel for optimal radio placement. (HV/HX/MV)
08RGA*	Wiring in the center of the header console in the cab. (HV/HX/MV)
08RCB	CB radio accommodation package, header mounted, includes power source and two antenna bases with wiring. (HV/HX)
08RBK	Dual CB antennas (HV/HX)

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



Body Builder Wiring

08HAT	Includes wires installed through the dash panel to end compartment. In cab wires ends will have ESC input terminals, Engine compartment wire ends will have sealed connectors.
08WZG	Junction block stud inside cab, 100 amp battery feed, Protected by a fusible link.
13WDH	BODY BUILDER Transmission Wiring – Installed wiring for transmission/PTO controls for Allison 2000, 2100, 2200, 2400, 2500 series transmission only
60ACW	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 (.5Amp) Relay Driver outputs are provided
60ABM	RPM Input/Output harness with blunt cut wires for 1 RPM
60ABN	RPM Input/Output harness with blunt cut wires for 2 RPM

Spare Input/ Output For Automatic Transmissions

13WUC	Remote body builder interface wiring and software programming for Allison automatic transmissions. (HV/MV)
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Transmission Control Module Location

13WYH	TRANSMISSION TCM LOCATION Inside cab for protection from the environment. (HV/MV)
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Remote Start/ Stop Accommodation

Remote start/stop is available with automatic transmissions only. Since latched switches are critical with remote start/stop, Remote Power Module codes 08WSK, 08WSM, and 08SAJ are not available with features below.

60ABC	Remote Engine Start, Stop and restart control, accommodation package provides connections for remotely starting and stopping the engine.
60ABD	Remote Engine Start, Stop and restart control, accommodation package provides connections for remotely starting and stopping the engine. Includes emergency pump control.

Electric Brake Accommodation

08HAG	ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Separate Trailer Stop, Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake Accommodation Package with Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket
08HAH	ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Combined Trailer Stop, Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake Accommodation Package with Cab Connections for Mounting Customer-Installed Electric Brake Unit, Less Trailer Socket

Trailer Connections

04619	Trailer connections 4 wheel, with hand control valve and tractor protection valve for straight truck (HV/HX/MV)
08TME	TRAILER CONNECTION SOCKET 7-Way; Mounted at Rear of Frame, Wired for Turn Signals Independent of Stop, Compatible with Trailers That Have Amber or Side Lamps. (HV/HX/MV)



08TMG	TRAILER CONNECTION SOCKET 7-Way; Mounted at Rear of Frame, Wired for Turn Signals; Combined With Stop, Compatible With Trailers That Use Combined Stop, Tail, and Turn Lamps. (HV/HX/MV)
08TMN	TRAILER CONNECTION SOCKET {Phillips STA-DRY} 7-Way; Equipped With ABS Feed, Mounted at BOC and End of Frame Locations. (HV/HX/MV)
08TKK	Trailer Auxiliary Feed Circuit for Electric Trailer Brake Accommodation / Air Trailer ABS; with 30 Amp ABS wiring to make 08HAG or 08HAH interchangeable between electric and air trailer brakes.

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

16WLM	HOURMETER, PTO for Customer Provided PTO; Indicator Light and Hour meter in Gauge Cluster Includes Return Wire for PTO Feedback Switch. Included with the PTO feature codes below (HV/HX/MV)
60ABE	BDY 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) (HV/HX/MV)
60ABK	BDY INTG, PTO ACCOMMODATION, Accommodation for Electric over Air Non Clutched PTO Engagement and Disengagement, Does not Include Air Solenoid, With Switch Mounted on Dash, Includes Audible Alarm and Indicator Light in Gauge Cluster (requires 1 input & 1 output) (HV/HX/MV)
60ABL	BDY INTG, PTO ACCOMMODATION, Accommodation for Electric over Air Clutched PTO Engagement and Disengagement, Does not Include Air Solenoid, With Switch Mounted on Dash, Includes Audible Alarm and Indicator Light in Gauge Cluster (requires 1 input & 1 output) (HV/HX/MV)



60AKG	Body Integration, PTO Accommodation for (3) Latched rocker switches, one for PTO switch and two generic switches to control (3) 30amp relays, with programmable parameters. (HV/HX/MV)
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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.

60AAA	BDY INTG, REMOTE POWER MODULE (1); Up to 6 Outputs & 6 Inputs, Max. 20 Amps. Per Channel, Max. 80 Amps. Total (Includes 1 Switch Pack With Latched Switches), Mounted Back of Battery Box on MV Series and Under Cab, Left Rear on HV Series. (HV/MV)
60AAB	BDY INTG, REMOTE POWER MODULE (2); Up to 6 Outputs & 6 Inputs each, Max. 20 Amps. per Channel; Max. 80 Amps Total per Power Module (Includes Switch Packs with 12 Latched Switches), Mounted Back of Battery Box on MV Series and Under Cab, Left Rear on HV Series. (HV/MV)

Enhancements for additional functionality, using Remote Power Module features:

60ACE	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) (HV/HX/MV)
60ACS / 60ACT / 60ACU	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)
60ACW	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 (.5Amp) Relay Driver outputs are provided (HV/HX/MV)
60AJD	BDY INTG, INDICATOR LIGHTS (2) – 1 for Boom Out of stow, 1 for Outriggers Deployed. Includes Audible Alarm, Programmable Mode for Various Switch Actions. (Requires 2 Remote Power Module Inputs).
60AJE	BDY INTG, REMOTE THROTTLE - When ground is applied to the Remote Power Module input, the engine ramps to the first preset speed and maintains that speed as long as the input is held at ground. Removing ground from the Remote Power Module input returns the engine to idle.
60AJG	BDY INTG, THROTTLE CONTROL – Accommodation for single customer mounted external engine speed control switch, for utility applications. Programmable mode for various switch actions and engine speed control option. First activation of pressure switch increases the engine speed to the first preset setting; second activation of switch returns the engine speed to idle.
60AJH	BDY INTG, THROTTLE CONTROL – Accommodation for single customer mounted external engine speed control switch with dual function input for utility application. First activation of switch increases engine speed to the first preset, second activation returns engine to idle. Activation of switch with engine off activates emergency pump. Requires One RPM Input and One RPM Output



Additional Indicator Lights

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

Diamond Logic Builder Custom Software Programming Features

- Multiple PTOs
- Compartment lights interlocked to parking lights and park brake
- Inclinometer control
- Outrigger interlock control
- Transmission auto-neutral with interlocks
- Strobe lights interlocked to transmission neutral
- Equipment hour meters
- Body mounted warning flashers
- Hydraulic tool control
- Custom emergency pump control
- Custom remote throttle controls
- Low hydraulic level indicator
- Hydraulic oil over-temperature indicator
- Hydraulic oil clogged indicator
- Low/hot hydraulic oil PTO shutdown
- PTO shutdown override switch