



TOWING & RECOVERY *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

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
--------------	--

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

Auxiliary/ 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)
08TMH	Hardwired auxiliary switch for 20 Amp load with wiring up A-pillar to roof

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)
--------------	--

Convenience Features

08RPB	Steering wheel switches for control of radio and Bluetooth calling
08WPZ	Pre-trip inspection will cycle exterior lamps, except back-up lights

Collision Mitigation Features

08TPU	Bendix Wingman Fusion; Adaptive cruise control and collision mitigation, includes front radar and camera, driver display; Lane departure warning switch and speakers, stationary object alert, safety direct capability
--------------	---

Headlight Features

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)

**Safety and Equipment Protection Features**

08WRB	Headlights will automatically turn on if windshield wipers are turned on
08WXB	Headlight warning buzzer; Warning sounds when Head Light Switch is on and Ignition Switch is in "Off" Position
08WXD	Electric horn sounds in repetitive manner when vehicle park brake is "NOT" set, with ignition "OFF" and any door opened. (HV/HX/MV)
08WGL	Force wipers to slowest intermittent speed when park brake set and wipers left on for a predetermined time.
08WWJ	Indicator and alarm for low coolant level
12WBR	Switch on dash for manual override of engine fan
08THB	Back up alarm; Provides a 102 dBA audible alarm when a vehicle is operated in reverse gear
60ACX	Theft Deterrent; Limits vehicle mobility by requiring a pre-selected code to be entered to drive vehicle
16HCH	Seat belt indicator and alarm will alert driver if park brake is released and seat belt is not fastened
16HKE	Gauge load indicator for rear axle(s), used with rear air suspension; Displays in cluster

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)
08RNC	CB radio accommodation package, header mounted, includes power source and two antenna bases with wiring

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

Body Builder Wiring

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

Spare Input/ Output For Automatic Transmissions

13WUB/ 13WUC	Remote body builder interface wiring and software programming for Allison automatic transmissions.
-------------------------	--

Trailer Electric Brake Accommodation Features



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
08TKK	Trailer Aux 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

Trailer Connections

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)

Remote Engine Speed Control

12VGA	Remote mounted body builder interface wiring for engine speed control with International A26 engines
12VXT	Stationary variable auxiliary / PTO engine speed control through steering wheel cruise switches
12VXU	Stationary preset (2 speeds) auxiliary / PTO engine speed control through steering wheel cruise switches
12VXV	Mobile variable (2-20MPH) auxiliary / PTO engine speed control through steering wheel cruise switches
12XBM	Remote mounted body builder interface wiring for engine speed control with Cummins B6.7 and L9 engines

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
Electric - Lectra-Shift	N/A	TG Series Electric	60ABB
Cable or lever (includes warning lights/alarms only)	442/489 Series (Y & W)	TG, SG Series (Cable Package)	60ABA

PTO Controls and Hourmeter

13XAA	PTO CONTROL, DASH MOUNTED For Customer Provided PTO; Includes Switch, Electric/Air Solenoid, Piping and Wiring. Recommended for manual transmissions ONLY
16WLM	HOURMETER, PTO for Customer Provided PTO; Indicator Light and Hour meter in Gauge Cluster Includes Return Wire for PTO Feedback Switch.
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. Recommended for use with automatic transmissions
60ABE	Body Integration, PTO Accommodation for Electric over Hydraulic PTO. Recommended for use with automatic transmissions on units which include a Remote Power Module feature such as 60AAG. 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)

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.

60AAG	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)
--------------	---

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)
60ACG / 60ACH	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



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)
60AJA	Body integration, remote throttle: When signal 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. Removing signal from the Remote Power Module input returns the engine to idle. Park brake must be applied

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

- Low hydraulic level indicator
- Hydraulic oil over-temperature indicator
- Hydraulic oil filter clogged indicator
- Low/hot hydraulic oil PTO shutdown
- Set up body lights to work with Pre-trip light inspection
- External Regen warning
- Cab strobe lights
- Multiple PTOs
- PTO shutdown override switch