

# Track & Switch Heating Packages

Fastrax™ heating packages are available for a variety of common track and switch heating applications including running or stock rails, moving rails, spring rail frogs, movable point frogs, scanner and dragging equipment detection.

## Running/Stock Rail and Moving Rail Heating Package

The running/stock rail and moving rail heating packages include Fastrax™ patented SwitchBlade® heaters, crib heaters and junction boxes, all controlled from the Fastrax™ stand-alone control panel. Custom packages are available for non-standard applications.

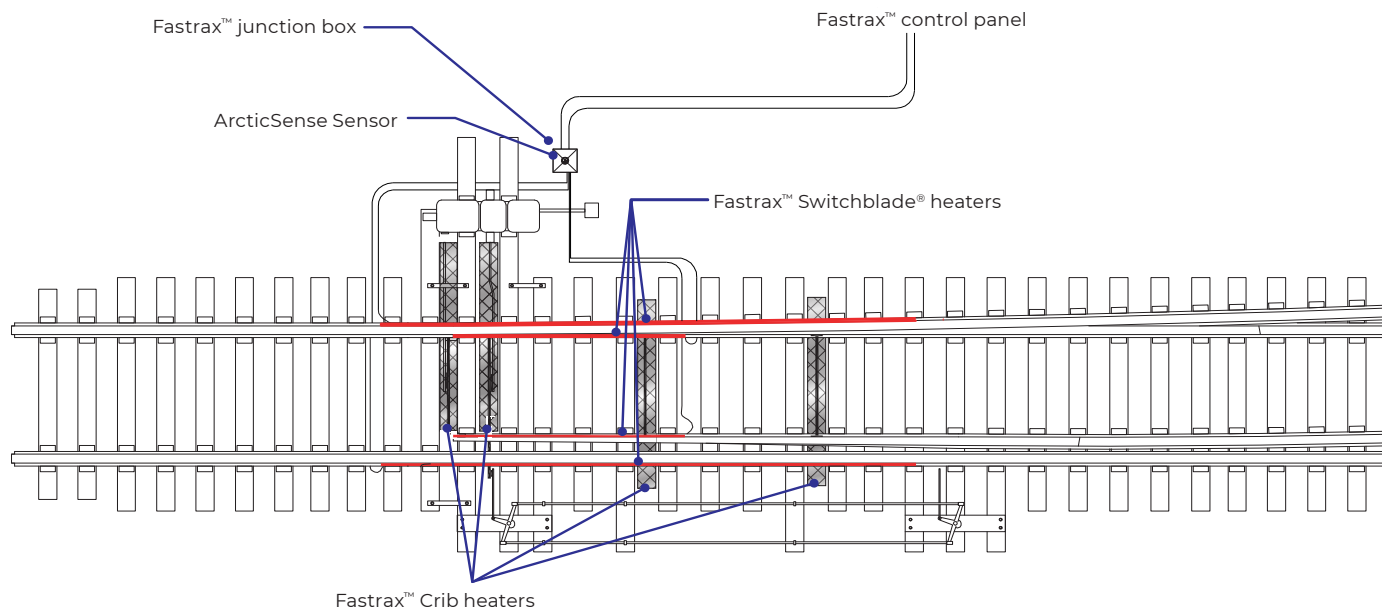


Figure 12 – Typical Running/Stock Rail Heating Layout - Equipment Detail, No. 14, 15 or 16 Standard Switch Size (All Tie Styles)

Table 11 – Running/Stock Rail and Moving Rail Heating Package Components

Quantity	Model Type	Product Description
1	GCP22135200	Fastrax™ Stand Alone or Extension Controls up to 5 crib heaters, 2 SwitchBlade® heaters (16' to 26') and 2 SwitchBlade® heaters (8'), 35 kW maximum capacity. Includes FASIA aerial snow sensor. Enclosure size: 36"H x 30"W x 10"D.
2	FSR32416	Fastrax™ SwitchBlade® Heaters 300 watts per foot of active heater length (4,600 total watts), 240V, 15'2" active length (16' overall length).
	FSR32420	Fastrax™ SwitchBlade® Heaters 300 watts per foot of active heater length (5,800 total watts), 240V, 19'2" active length (20' overall length).
	FSR32426	Fastrax™ SwitchBlade® Heaters 300 watts per foot of active heater length (7,600 total watts), 240V, 25'2" active length (26' overall length).
	FSE32408*	Fastrax™ SwitchBlade® Heaters 300 watts per foot of active heater length (2,200 total watts), 240V, 7'2" active length (8' overall length).
4	FCH152409	Fastrax™ Crib Heaters 150 watts per foot of platform length (1,350 total watts), 240V, 8'8" length. Includes four jack-bolt clamps.
1	FJA200SU	Fastrax™ Junction Box
1	FJAM200SUP*	Fastrax™ Junction Box with Ground Snow Sensor Includes Fastrax™ Ground Snow Sensor and FJAS24F support post assembly.

\*Optional Equipment

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Spring Rail Frog Heating Package

The spring rail frog heating package includes Fastrax™ patented SwitchBlade® heaters and junction box, all controlled from the Fastrax™ stand-alone control panel. Custom packages are available for nonstandard applications.

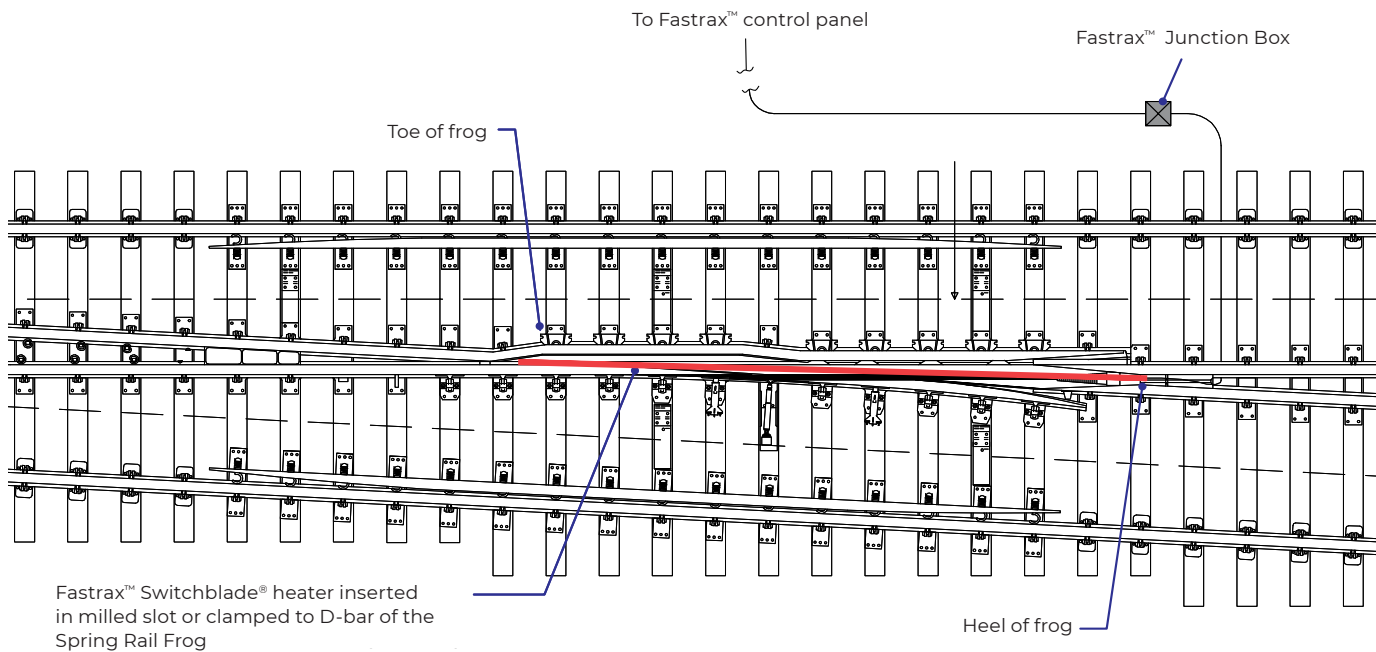


Figure 13 – Typical Spring Rail Frog Heating Layout - Equipment Detail, All Standard Sizes (All Tie Styles)

Table 12 – Spring Rail Frog Heating Package Components

Quantity	Model No.	Product Description
1	GSFC1-2110100	Fastrax™ Stand Alone Spring Rail Frog Panel Control heaters for No. 9, 10 or 11 Spring Frog. 10 kW maximum capacity, 100 amp, 240V, 1 phase disconnect. Enclosure size: 24" H x 24" W x 10" D.
	FSB32408SA or [FSBR32408 (retrofit)]	Fastrax™ SwitchBlade® Heater 300 watts per foot of active heater length (2,200 total watts), 240V. 8' overall length. For No. 9, 10 or 11 switch.
	FSB32412SA* or [FSBR32412 (retrofit)]	Fastrax™ SwitchBlade® Heater 300 watts per foot of active heater length (3,400 watts total), 240V. 12' overall length. For No. 14, 15 or 16 switch.
	FSB32416SA* or [FSBR32416 (retrofit)]	Fastrax™ SwitchBlade® Heater 300 watts per foot of active heater length (4,600 watts total), 240V. 16' overall length. For No. 20 or 24 switch.
	FJAM200SUP	Fastrax™ Junction Box with Ground Snow Sensor Includes Fastrax™ Ground Snow Sensor and FJAS24F support post assembly.

\*Optional Equipment

### Movable Point Frog Heating Package

The movable point frog (swing nose frog) heating package includes Fastrax™ patented SwitchBlade® heaters, crib heaters and junction box, all controlled from the Fastrax™ stand alone control panel. Custom packages are available for nonstandard applications.

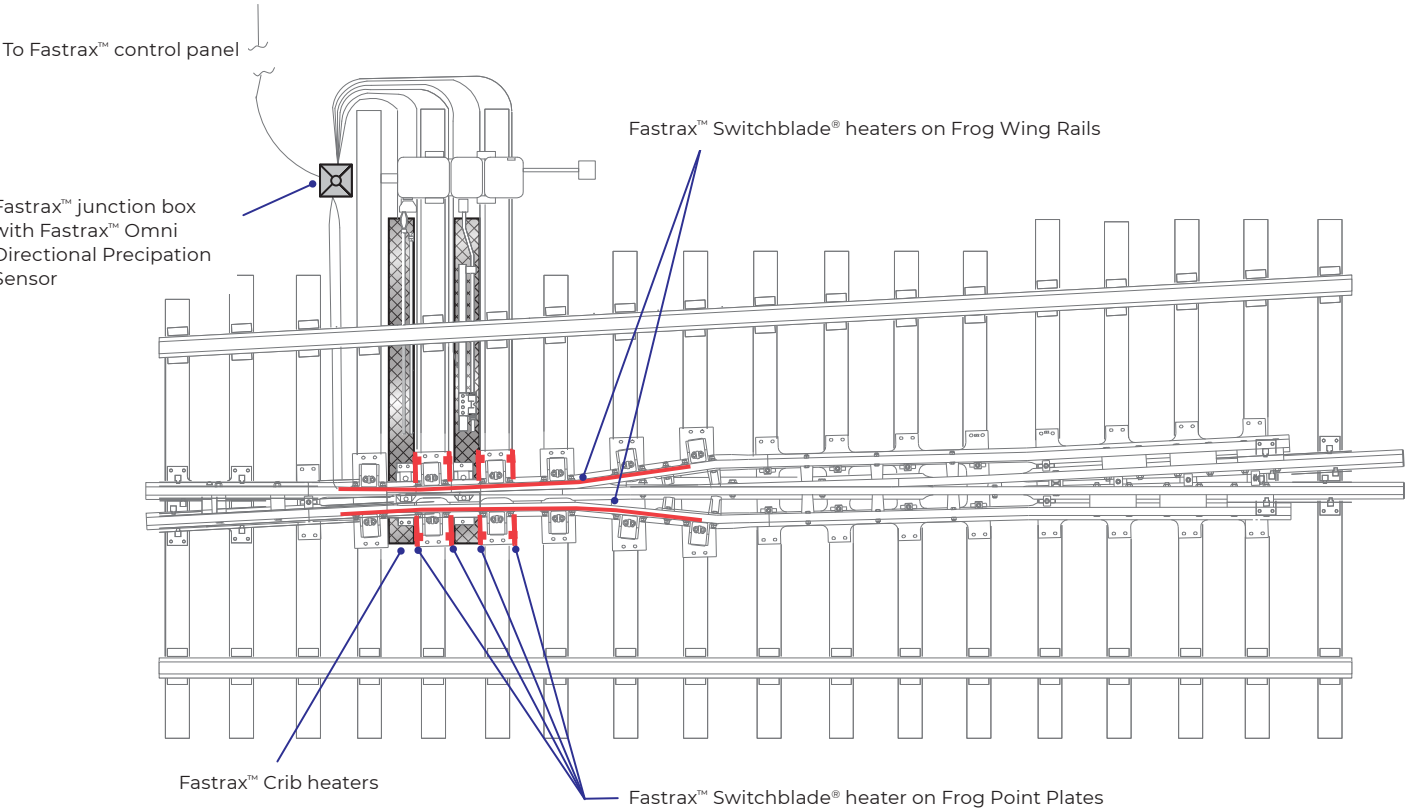


Figure 14 – Typical Movable Point Frog Layout - Equipment Detail, No. 20 / 24 Standard Size (All Tie Styles)

Table 13 – Movable Point Frog Heating Package Components

Single Track Quantity	Model Type	Product Description
1	GMPC1-2115100	Fastrax™ Stand Alone Movable Point Frog Control Panel Controls up to 2 crib heaters, 4 SwitchBlade® heaters (point plate heating) and 2 SwitchBlade® heaters (wing rail heating), 15 kW maximum capacity. Includes FASIA snow sensor. Enclosure size: 36"H x 30"W x 10"D.
4	FSB42403SA	Fastrax™ SwitchBlade® Heaters 400 watts per foot of active heater length (750 total watts), 240V, 2'1" active length (2'9" overall length).
2	FSB32412SA	Fastrax™ SwitchBlade® Heaters 300 watts per foot of active heater length (3,400 total watts), 240V, 11'3" active length (12' overall length).
2	FCH152409	Fastrax™ Crib Heaters 150 watts per foot of platform length (1,350 total watts), 240V, 8'8" length. Includes four jack-bolt clamps.
1	FJAM200SUP	Fastrax™ Junction Box with Ground Snow Sensor Includes Fastrax™ Ground Snow Sensor and FJAS24F support post assembly.

Scanner & Dragging Equipment Detection Heating Packages

Fastrax™ Scanner & Dragging Equipment Detector (DED) Heating package is constructed with a state-of-the-art automatic snow sensing control and durable junction box with an optional ground snow sensor. This heating package keeps the scanner crib environment and DED clear of ice and snow. Custom packages are available for non-standard applications.

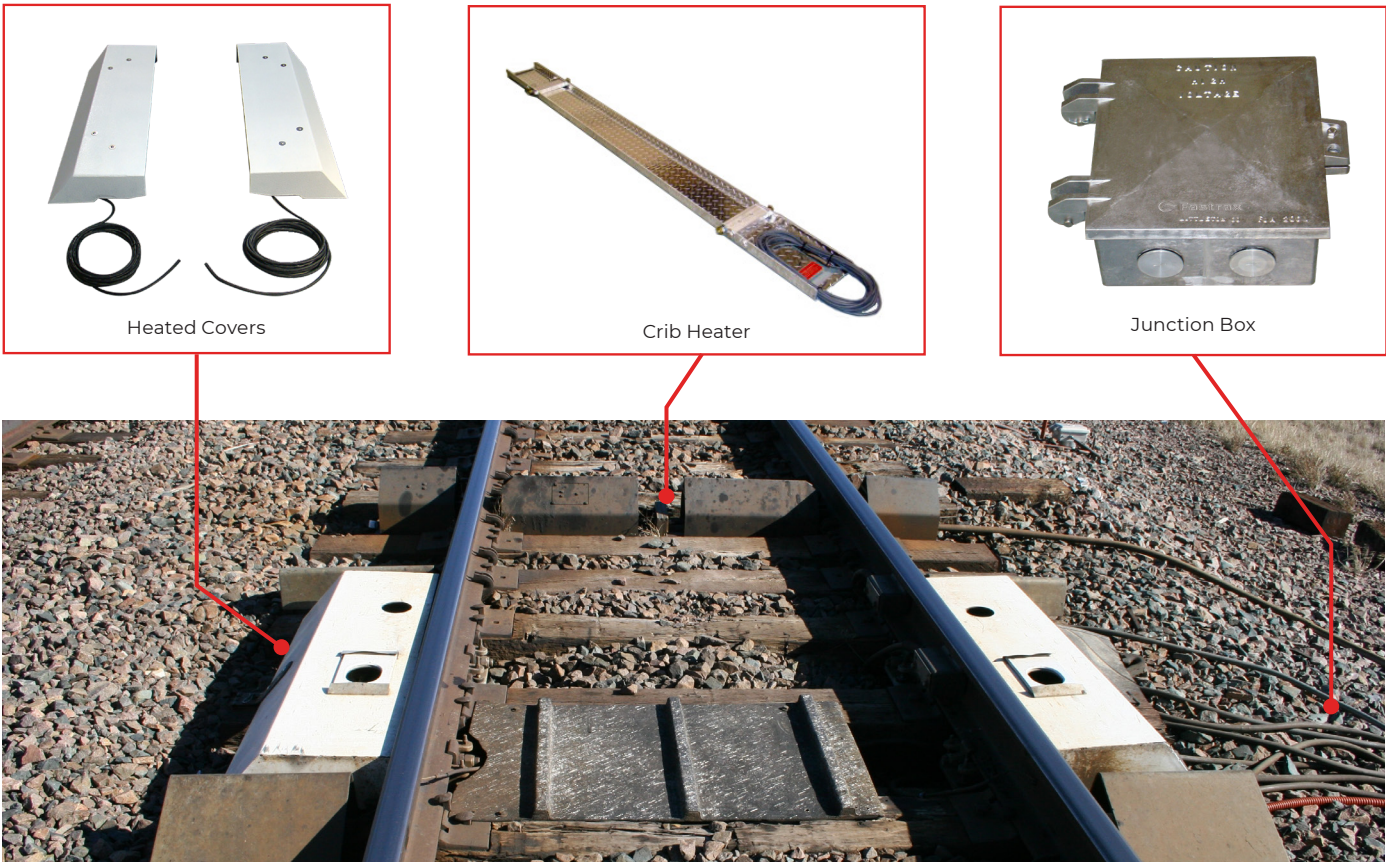


Figure 15

Table 14 – Scanner and Dragging Equipment Detection Heating Package Components

Double Track Quantity	Single Track Quantity	Model No.	Product Description
1	1	GSC2210940	Fastrax™ Stand Alone Scanner Control Panel Controls up to 2 crib heaters and 4 heated covers. 9 kW maximum capacity, (2) 40 amp, 240V terminals provided for line feed. Includes FAS1A aerial snow sensor and support mast. Enclosure size: 20"H x 16"W x 6"D. For indoor installation only.
2	1	FCH152409	Fastrax™ Crib Heater 150 watts per foot of platform length (1,350 total watts), 240V. 8'8" length. Includes (4) jack bolt clamps.
4	2	FSH4244W	Fastrax™ Heated Cover (for Axel Bearing Scanner) 750 watts, 240 volts, 1-phase includes mounting hardware. 4' length. White in color with anti-slip surface.
1	0	FJA200Y	Fastrax™ Scanner Junction Box Optional FGSP1A Ground Snow Sensor.
1	1	FJA200YP	Fastrax™ Scanner Junction Box with optional FGSP1A Ground Snow Sensor.
1	1	FA041 (Single Track) or FA042 (Double Track)	Fastrax™ Installation Accessory Kit Includes insulated connector blocks, liquid tight extra flexible protective conduit, flexible conduit connectors, stainless steel hose clamps, test and tool accessories.