



Francis Wayne BullCalf <francisb@bps.k12.mt.us>

state regulations

Rosenthal, Donell <DRosenthal@mt.gov>
 To: Francis Wayne BullCalf <francisb@bps.k12.mt.us>

Mon, May 9, 2022 at 11:06 AM

The following information has been sent out monthly since the passing of the law and adoption of the school bus standards which were final on January 14, 2022:

2022 Montana School Bus Standards—Extended Stop Signal Arm
Extended Stop Arm (Page 40) --Effective July 1, 2022

When a school bus route includes a bus stop that requires a child to cross a roadway, the school bus must be equipped with an extended stop arm that partially obstructs the roadway.

A school child may not cross a roadway to enter or exit from a school bus unless the roadway has been partially obstructed by the extended stop arm. 61-8-351, MCA.

Extended Stop Arm must:

1. Be equipped with **additional flashing red lights** as specified in 61-8-351(5)(b) and 61-9-402, MCA.
2. Be capable of extending a distance of at least 54 inches from the school bus.
3. Be at a height of not less than 36 inches.
4. Extended Stop Arm should have an additional illuminated stop sign located at the furthest distance from the school bus.

These new requirements and modifications will have an impact when performing the semi-annual school bus inspections by Montana Highway Patrol Officers. In addition, the TR-13 Bus Inspection Form is in the process of being fully revised and will be available by the effective date of July 1, 2022.

Districts may use their bus depreciation fund or transportation fund to pay for the purchase of the extended stop arms.



Donell Rosenthal

State Director of Pupil Transportation

Montana Office of Public Instruction

- Work Phone: 406-461-9316
- Email: drosenthal@mt.gov
- Website: www.opi.mt.gov

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Francis Wayne BullCalf <francisb@bps.k12.mt.us>

Extended stop arm requirement

JM Transportation Solutions <sales@extendedstoparm.com>
To: "francisb@bps.k12.mt.us" <francisb@bps.k12.mt.us>

Mon, May 2, 2022 at 1:43 PM

Good afternoon, Francis.

As you may be aware, on January 14th the Board of Public Education approved the 2021 Montana School Bus Standards which do include the standards for the extended stop arm on school buses. The standards for the extended stop arm can be reviewed on Page 40.

61-8-351 (5) MCA Now requires the use of an extended stop arm that partially obstructs the roadway and equipped with additional flashing red lights as specified 61-9-402, MCA, and requiring a school district trustees to approve each bus stop that requires a student to cross the roadway.

We are asking for your help to ensure we have adequate stock available to meet the order and delivery requirements of all schools. Could you please provide us with an estimate of how many stop arms your district may need? This will help us to plan our production accordingly.

Thank you in advance for your assistance!

Best regards,

Karyn Pratt

JM Transportation Solutions

406/261-7350



Francis Wayne BullCalf <francisb@bps.k12.mt.us>

Extended stop arm information

7 messages

JM Transportation Solutions <sales@extendedstoparm.com>
 To: "francisb@bps.k12.mt.us" <francisb@bps.k12.mt.us>

Tue, May 3, 2022 at 1:47 PM

Hello Francis,

I'm glad we were able to talk this afternoon regarding the extended stop arm. As promised, I am attaching additional information on the product, as well as a photo for your reference. This is a very sturdy arm, and you shouldn't have any problems with the crazy winds you get there.

Please let me know if you have any other questions.

Best regards,


Karyn Pratt

JM Transportation Solutions

406/261-7350

3 attachments

 **ESA on Blue Bird.pdf**
118K

 **ESA FAQs.pdf**
655K

 **ESA Specifications.pdf**
451K

Francis Wayne BullCalf <francisb@bps.k12.mt.us>
 To: JM Transportation Solutions <sales@extendedstoparm.com>

Wed, May 4, 2022 at 10:49 AM

hi karyn this is wayne bull calf im responding to your extended stop arm requirements for school crossing arms i have 28 buses that will require them pleas send me costs the of these extended arms so i can get it on my next bourd meeting agenda thanks you

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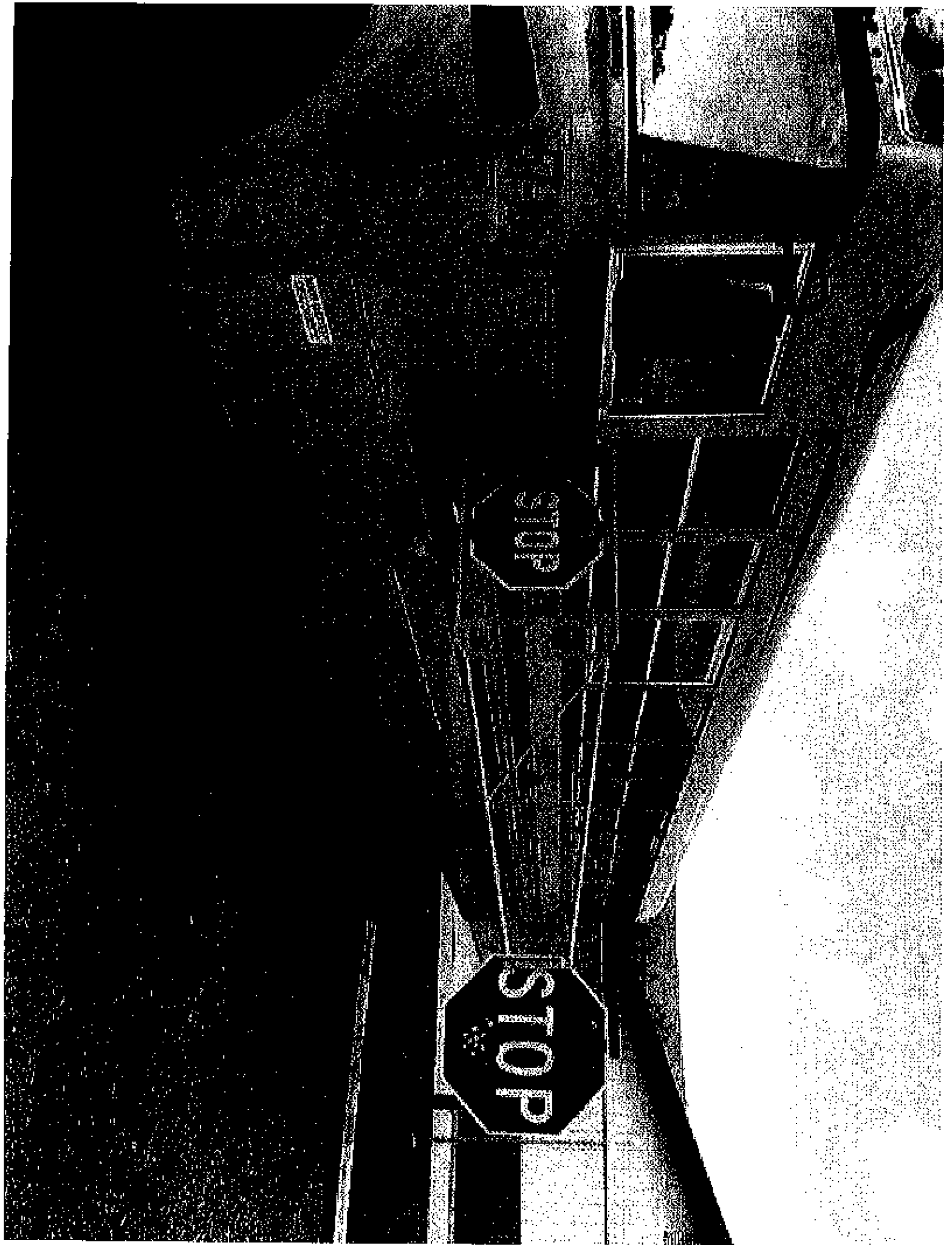
JM Transportation Solutions <sales@extendedstoparm.com>
 To: Francis Wayne BullCalf <francisb@bps.k12.mt.us>

Wed, May 4, 2022 at 10:51 AM

Hi Waynel

STOP

STOP



Karyn Pratt

JM Transportation Solutions

406/261-7350

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2 attachments

 **Q2022-0058 Browning no installation 5.4.22.pdf**
93K

 **2022 Installation Guide for Standard Arm.pdf**
4263K

Francis Wayne BullCalf <francisb@bps.k12.mt.us>
To: JM Transportation Solutions <sales@extendedstoparm.com>

Thu, May 5, 2022 at 1:52 PM

Good afternoon karyn im responding to the body numbers of buses that we have in our fleet that transports students. so we have 24 propan buses body number f460765 my mechanic told me that allour propane buses are the same then i got 1 84 passenger blue bird body number f407684 international 1 18 passenger bus all i could find was a model number PB10500 1 blue bird micro bird 18 passenger body number 10-28670 so if u can give me quotes of this fleet so i can submit it for board approved thank you

[Quoted text hidden]

JM Transportation Solutions <sales@extendedstoparm.com>
To: Francis Wayne BullCalf <francisb@bps.k12.mt.us>

Thu, May 5, 2022 at 3:04 PM


Good afternoon, Wayne.

Thank you for this information – that is great! I have attached an updated quote since 1 of your Blue Bird buses has an air actuated stop arm.

Please let me know if you need any additional information for your board meeting.

Best Regards,

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 **Q2022-0058 Browning no installation 5.4.22.pdf**
194K

How does the product handle vibration as it travels along the road? The arm is deployed and retrieved with a UL certified linear actuator arm or air cylinder. This mechanism securely holds the arm close to the bus when not in the extended position.

In the event of an accident, can the bus continue its route? Yes, the bus can continue and function with just the original sign until a new extension arm can be installed.

Installation and Maintenance

How long does it take to install the Extended Stop Arm? This aftermarket device is easily installed in less than 2 hours. With some training, most mechanics could install the product.

Is it compatible with any model bus? The product is designed to retrofit on practically any model school bus. The Extended Stop Arm has been installed on 5 different makes of buses of varying age.

Are the lights replaceable? Yes. Lights are individually replaced with a pin connection, thus saving money by not having to replace all the lights.

How often do the shear pins have to be replaced? This will depend on road conditions. Pins should be replaced every 3 months as it is difficult to determine if wear is apparent. The cost is a little over a \$1.00 for a pair of shear pins.

Legal

Is it illegal to hit the Extended Stop Arm? Yes, the extension arm and sign is part of the school bus.

Is the school liable for damages caused by a motorist that hits the Extended Stop Arm? States have determined that it is illegal for any other vehicle to occupy the area in which the Extended Stop Arm extends. The offending vehicle is liable for damages to the sign or bus as well as their own vehicle.

Does the second sign meet Federal Specifications? Yes, the additional sign has the required size and coatings and reflectivity required to meet Federal School Bus standards – FMVSS 131.

Price

How much does the Extended Stop Arm cost? The MSRP for our units is \$2,800 – \$3,000.

Installation is a separate charge, which could be avoided by using your own mechanics. The Extended Stop Arm can easily be installed by a trained mechanic.

Warranty

Does Bus Safety Solutions offer a warranty for the Extended Stop Arm? Bus Safety Solutions offers a 5-year warranty on its product and material workmanship. This is supported by manufacturer warranties on the sign, lights, electronic board, and linear actuator. There is a 30-day warranty on the labor of installation completed by JM Transportation Solutions.

Bus Safety Solutions

Who is Bus Safety Solutions? Bus Safety Solutions is located in Winston-Salem, NC. The manufacturing is performed by insured sub-contractors in the United States, the majority of which is done in North Carolina. The product is then assembled in Winston-Salem, NC by Bus Safety Solutions. Bus Safety Solutions carries both product liability and general liability insurance.

Contact JM Transportation Solutions for additional information at
sales@extendedstoparm.com or 406-212-8805.



J.M. TRANSPORTATION SOLUTIONS

Extended Stop Arm - Specifications

The Extended Stop Arm Exceeds the Federal Standard 571.131 School Bus Pedestrian Safety Devices.

Overview -The Extended Stop Arm provides a physical presence to stop vehicles from passing stopped school buses. This has a break-away feature such that if struck at a significant speed will shear the bolt connections and the electrical connection. This is a patented product #US 9,245,465 B1. The arm takes 5 seconds to deploy or retract for electric, and 4 seconds for air. Should the electric arm be opened into another object, or the side of another bus, it will automatically retract and reset after 20 seconds, protecting both the Extended Stop Arm and the Linear Actuator.

The Extended Stop Arm is powder coated aluminum or steel, vinyl, fasteners are all stainless steel. Electrical wiring is all U.V. protected cabling. It is covered by our 5-year warranty, which is backed up by individual product warranties of the contracted manufacturers.

Lights - are independently plugged into the wiring harness. Meaning any light can be replaced individually. They are all bright 9 LED in a sealed housing US FMVSS 108 vehicle lighting compliant. The lights stay on for 2 extra seconds when closing to allow for the arm to close against the side of the bus.

Sign - is current to the Federal specifications for the Stop sign in both size and specific quality of lettering and reflectivity.

Aluminum break-away frame - This is powder coated aluminum built to our specifications. Total weight of frame, lights, and sign is 7 pounds.

Steel support square frame - This is powder coated steel and has the strength to support the break-away aluminum frame. This allows shearing of the #8 nylon 5/16" bolts.

Steel Hinge support - This is designed to support both the original sign, and our new steel frame, as well as the aluminum break-away sign. This is comprised of a heavy-duty steel vertical, and horizontal member which supports the linear actuator as well. Both the vertical and horizontal pieces have 3/4" X 1/2" bronze iodite bushings. In addition, the hinge piece itself has a 1/2" stainless steel rod as the hinge which operates within the bronze bushings. The fasteners are all stainless steel including the studs on this hinge piece.

Wiring harness - for the lights is attached using a harsh environment waterproof ATM series sealed connector for the weather seal at the breakaway point.

Electronic Control Unit - This was developed specifically for us. It controls the flash, and strobe of the lights, as well as the Linear Actuator or pneumatic cylinder move the arm. This requires a 15-amp supply line fuse from the fuse box, and to be connected to the control wire for the existing Stop Arm lights. The unit uses very low current.

Linear Actuator - This is a 100# thrust unit, with an IP66 rating operating at a temperature range of -10 F to 110 F providing consistent operations of the Extended Stop Arm. This has a 400# static load for keeping the arm against the side of the bus.

Air/Pneumatic Double Acting Cylinder - This is a 100lbs of thrust unit. It has all stainless-steel parts that uses the bus compressor air to power in and out. The air pressure securely holds in the Extended Stop Arm when the bus is running. A check valve keeps the arm secure when the bus is off. An electric control unit also controls the air cylinder.

Length - The Extended Stop Arm is available in two lengths: a 4.5' and 6.5' total length. The shorter version can be used on routes with 1 lane or in parking lots.



JM TRANSPORTATION SOLUTIONS

extendedstoparm.com 406/212-8805

ESTIMATE

JM Transportation Solutions
 P.O. Box 260007
 Martin City, MT 59926
 United States

BILL TO
Browning Public School District 9
 Wayne Bull Calf
 129 1st Avenue SE
 Browning, Montana 59417
 United States

SHIP TO
Browning Public Schools
 Bus Barn
 1 City Shop Road
 Browning, Montana 59417
 United States

Estimate Number: Q2022-0058
Estimate Date: May 4, 2022
Expires On: June 4, 2022
Grand Total (USD): \$74,505.00

francisb@bps.k12.mt.us

Items	Quantity	Price	Amount
18004 - ESA Extended stop arm - electric with heated actuator for 24 BB, 1 IC, 1 Micro Bird (quantity discount)	26	\$2,650.00	\$68,900.00
18004 - ESA Extended stop arm - air for BB (quantity discount)	1	\$2,750.00	\$2,750.00
Shipping	1	\$2,855.00	\$2,855.00
		Total:	\$74,505.00
		Grand Total (USD):	\$74,505.00

Please note that if your existing stop arm (sign and lights) is not standard as shown with a thin metal blade attached to the stop sign, there will be an additional charge of \$250/each for new sign kits:

