

Page #	Changes	Justification or Reason
Page 1	Updated Year	Updated to 2020
Page 2	Updated address. Also updated footer to reference 2020 title.	Updated to 2020.
Page 3 - and throughout the manual	Updated all references from 2019 to 2020.	Should be for the 2020 specifications.
Page 15 – and throughout the manual	Updated title of Pupil Transportation Unit to Branch.	Should be Pupil Transportation Branch. They are no longer a unit.
Page 18	Updated committee members.	Removed retired committee members and added new committee members.
Page 19, 31, 64, 67, 72	Updated title.	Previous title did not clarify what the section was.
Page 24	Added “for diesel engine only,”	An engine heater is not needed for propane buses. Updated to reflect this need for diesel only.
Page 27	Added LED headlights	LED headlights are now available for some buses.
Page 28	Added additional tires.	Due to the constant change in the industry regarding tire availability, additional alternatives in tire brands are needed to ensure availability of tires at the time of production. Cooper WORK Series RHA 295/75R22.5, Hankook 295/75R22.5
Page 29	Added new transmission type and fluid type.	Eaton Procision is now an option for diesel buses.
Page 30	Added additional engine type.	The Agility 488CI Propane engine is now available. Included language for the option of the Eaton transmission.
Page 32	Added language to allow a poly container for body fluid clean-up kit.	Metal or poly is available. Due to cost to the industry for metal, poly was requested by the manufacturer.

Page 33 and 73	Added plywood shall be marine grade or treated.	There was previously no requirement to have treated plywood under the flooring. Clarified the requirement for the manufacturer.
Page 43	Updated to allow 2 auxiliary fans in the front window.	Due to condensation on the loading door, an additional fan is being allowed to help keep the windows clear.
Page 44 and throughout the document.	Added language to allow a poly container for first-aid kit.	Metal or poly is available. Due to cost to the industry for metal, poly was requested by the manufacturer.
Page 48	Removed “underwriter approved” for insulation.	This is no longer a requirement and must comply with FMVSS 302.
Page 48	Corrected name of company. Removed antiquated language regarding placement of clearance lamps.	Clearance lamps must comply with Federal Motor Vehicle Safety Standards (FMVSS) 108.
Page 48 and throughout the document.	Corrected name of company. Added additional manufacturer of lights.	Added Optronics as an authorized lamp. Corrected name of the company Soundoff Signal.
Page 53	Added the allowance of the Interactive Motorist Alert Sign on the back of the bus.	As an option to school districts, the allowance of an LED sign on the back of the bus informing motorists the bus is stopping or to stop. This sign will flash and illuminate.
Page 57 and throughout the document	Updated the word seat belts to say lap/shoulder belts.	National Highway Transportation Safety Administration (NHTSA) recommends any new school bus that has seat belts be equipped with lap/shoulder belts. New buses will be lap/shoulder belt capable vs lap belt only.
Page 58	Added board material option.	Previous verbiage only allowed plywood for the seats. Manufacturer utilizes an OSB (oriented strand board).
Page 64,67	Removed unneeded verbiage under bumper.	Removed the word painted as the bumper comes in black and no longer needs to be painted.

Page 65 and throughout the document	Updated seat belt to lap/shoulder belts.	NHTSA recommends any new school bus that has seat belts be equipped with lap/shoulder belts.
Page 68	Added switch type.	Bus manufacture utilizes Inpower SFB-90. Added it as an acceptable switch.
Page 74	Removed language regarding child size.	FMVSS dictates requirements for seating size.
Page 77	Update minimum horsepower and torque.	Minimum 270 horsepower requested. Type A may have a minimum of 380 ft/lbs torque.
Page 78	Updated exhaust pipe location for propane. Updated minimum tank size for Type A bus. Updated transmission type for Type A bus.	Do to design needs, a side exhaust pipe vs rear exhaust pipe is needed for the propane powered bus. Type A cannot have a 60 gallon fuel tank. Update to reflect a minimum of 37 gallons. Manufacturer has made available GM 4L80E transmission for Type A bus.
Page 80	Removed duplicate verbiage.	Removed verbiage regarding warranty as it is in the beginning of the section.
Page 86	Updated language regarding ESC. Added language regarding headlights for retrofitting buses. Added the option for lap/shoulder belts.	The electronic stability control (ESC) is standard with some buses. It is an option for those that are not standard. Added the allowance of retrofitting halogen headlights with LED headlights with approval of the bus manufacturer. All lights shall confirm with FMVSS 108. Updated the options to allow lap/shoulder belts. This has

		always been allowed, but wasn't in the specifications.
Page 88	Added the words "interfere with", pertaining to ability to see out of the window.	This sentence was incomplete. Updated to clean up the language.
Page 90-92	Restructured section.	The section did not follow the alphabetical format of the rest of the manual. Updated the section to flow accordingly.
Page 91	Updated verbiage for lighting.	Updated to state "If replacing headlight to LED the full headlight bucket shall be replaced. The headlight shall conform to FMVSS 108 and have OEM approval."