

COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF EDUCATION
 P.O. BOX 2120
 RICHMOND, VIRGINIA 23218-2120

SPECIFICATION NOTICE 01-1 SEPTEMBER 1, 2000

TO: JANE L. DAWSON, REGIONAL SALES MANAGER, THOMAS BUILT BUSES, INC.

FROM: VINCE NEVIUS, ASSOCIATE SPECIALIST, VIRGINIA DEPARTMENT OF EDUCATION

SUBJECT: APPROVED BUS BODIES AND SPECIFICATIONS FOR USE IN VIRGINIA.

BASED ON VIRGINIA'S 2001 SPECIFICATIONS AND FLOOR PLAN DRAWINGS SUPPLIED TO THIS OFFICE BY THOMAS BUILT BUSES, THE FOLLOWING BODIES AND SPECIFICATIONS ARE APPROVED SUBJECT TO ACTUAL MEASUREMENTS OF COMPLETED UNITS.

<u>NO. PASS.</u>	<u>WB</u>	<u>ROWS</u>	<u>OAL</u>	<u>KNEE ROOM</u>	<u>PLAN NO.</u>
42MVP-EF	136	7	27'4"	28.5/27.9	46209
48MVP-EF	136	8	27'4"	27.9/28.5	110534 WINDOW
54MVP-EF	155	9	29'9"	28.5/27.8	54840 DOOR
54MVP-EF	155	9	29'9"	28.5/27.8	54841 WINDOW
66MVP-EF	174	11	32'1"	25.4/26.0	46206 DOOR
66MVP-EF	174	11	32'1"	25.1/25.1	54842 WINDOW
72MVP-EF	193	12	34'6"	25.4/26.1	46205 DOOR
72MVP-EF	193	12	34'6"	25.3/25.5	54844 WINDOW
78MVP-EF	212	13	36'11"	25.8/26.2	46059 DOOR
78MVP-EF	212	13	36'11"	25.5/25.5	54846 WINDOW
84MVP-EF	231	14	38'11"	26.2/26.3	47923 DOOR
84MVP-EF	231	14	38'11"	25.6/25.6	54848 WINDOW
66MVP-ER	181	11	31'8"	25.5/25.5	68638 DOOR OR WINDOW
72MVP-ER	209	12	34'0"	25.6/25.1	46291 DOOR
72MVP-ER	209	12	34'0"	25.1/26.0	54855 WINDOW
78MVP-ER	238	13	36'8"	25.0/25.2	46047 LS & RS DOORS
78MVP-ER	238	13	36'8"	25.0/26.1	54856 LS DOOR & WINDOWS
84MVP-ER	267	14	38'8"	25.0/25.4	46044 LS & RS DOOR
84MVP-ER	267	14	38'8"	25.1/26.2	54857 LS DOOR & WINDOWS
34-CONV.	152	6	18'0"	25.4/25.4	46032
52-CONV.	215	9	25'3"	25.1/25.3	54862 DOOR
52-CONV.	215	9	25'3"	26.0/26.0	54863 WINDOWS
64-CONV.	252	11	29'2"	25.7/26.3	46033 DOOR
64-CONV.	252	11	29'2"	25.4/25.5	94904 WINDOWS

TYPE "A" UNITS WILL BE APPROVED ON AN INDIVIDUAL BASIS.
A MAXIMUM OF TWO ELONGATED SECTIONS WILL BE PERMITTED WHERE NEEDED.
A BACK-UP ALARM OF APPROX. 97 DBA SHALL BE INSTALLED ON EACH BUS
AN APPROVED STROBE LIGHT SHALL BE INSTALLED ON EACH BUS.
PLASTIC BODY AUX. HEATER PUMPS WILL NOT BE APPROVED
ALL CROSSING GATES SHALL HAVE A LATCH
"SPECIAL NEEDS" BUSES AND ALL GAS POWERED BUSES SHALL BE SUPPLIED WITH A JOMARR THERMATIC FIRE EXTINGUISHER SYSTEM WITH NAF S-111 LIQUID CLEAN AGENT.

ALL CONSTRUCTION, MATERIAL, AND EQUIPMENT MUST COMPLY WITH "REGULATIONS GOVERNING PUPIL TRANSPORTATION INCLUDING MINIMUM STANDARDS FOR SCHOOL BUSES IN VIRGINIA" -JULY 1994.

CC: SONNY MERRYMAN, INC.

THOMAS-01

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
TO MEET REQUIREMENTS OF
VIRGINIA STATE BOARD OF EDUCATION**

THOMAS MVP -EF - 42 – PASSENGER DIESEL– AIR BRAKE

<u>GVWR</u>	30,000 LB	<u>WHEELBASE</u>	136”
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 14 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10” X 3” X .250” FRONT TOW HOOKS		
<u>STEERING</u>	SHEPARD	<u>TURNING RADIUS</u>	21’3” CURB TO CURB
<u>FRONT BUMPER</u>	¼” CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT “T” BEAM 13,200 LB.		
<u>REAR AXLE</u>	SPICER SINGLE SPEED 19,000 LB.	<u>RATIO</u>	4.60
<u>BRAKES</u>	FULL AIR – 13.2 CF. COMPRESSOR – 16.5” X 5” FRT. – 161/2” X 7” REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – PARABOLIC – 6,000 LB. EACH @ GROUND REAR SPRINGS – PROGRESSIVE TYPE – 9,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B OR CUMMINS ISB – 190HP – 520 FT.LBS. TORQUE @ 1400 HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	796 SQ. IN. – 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL “U”JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON – 60 GALLON DRAW – MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT –950 CCA -EACH - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE-NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2” FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
TO MEET REQUIREMENTS OF
VIRGINIA STATE BOARD OF EDUCATION**

THOMAS MVP -EF - 48 - PASSENGER DIESEL- AIR BRAKE

<u>GVWR</u>	30,000 LB	<u>WHEELBASE</u>	136"
<u>WHEELS</u>	DISC - 10 - STUD BUDD TYPE - 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 - 14 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER - 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	SHEPARD	<u>TURNING RADIUS</u>	21'3" CURB TO CURB
<u>FRONT BUMPER</u>	1/4" CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT "P" BEAM 13,200 LB.		
<u>REAR AXLE</u>	SPICER SINGLE SPEED 19,000 LB.	<u>RATIO</u>	4.60
<u>BRAKES</u>	FULL AIR - 13.2 CF. COMPRESSOR - 16.5" X 5" FRT. - 16 1/2" X 7" REAR - BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS - PARABOLIC - 6,000 LB. EACH @ GROUND REAR SPRINGS - PROGRESSIVE TYPE - 9,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B OR CUMMINS ISB - 190HP - 520 FT.LBS. TORQUE @ 1400 HAND THROTTLE - ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	796 SQ. IN. - 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL "U" JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON - 60 GALLON DRAW - MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT - 950 CCA -EACH - POSITIVE CABLE RED - NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE -NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2" FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

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THOMAS MVP -EF - 54 – PASSENGER DIESEL– AIR BRAKE

<u>GVWR</u>	30,000 LB	<u>WHEELBASE</u>	155”
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 14 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10” X 3” X .250” FRONT TOW HOOKS		
<u>STEERING</u>	SHEPARD	<u>TURNING RADIUS</u>	23’10” CURB TO CURB
<u>FRONT BUMPER</u>	¼” CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT “T” BEAM 13,200 LB.		
<u>REAR AXLE</u>	SPICER SINGLE SPEED 19,000 LB.	<u>RATIO</u>	4.60
<u>BRAKES</u>	FULL AIR – 13.2 CF. COMPRESSOR – 16.5” X 5” FRT. – 161/2” X 7” REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – PARABOLIC – 6,000 LB. EACH @ GROUND REAR SPRINGS – PROGRESSIVE TYPE – 9,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B OR CUMMINS ISB – 190HP – 520 FT.LBS. TORQUE @ 1400 HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	796 SQ. IN. – 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL “U” JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON – 60 GALLON DRAW – MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 950 CCA -EACH - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE -NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2” FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

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THOMAS MVP -EF - 66- PASSENGER DIESEL- AIR BRAKE

<u>GVWR</u>	30,000 LB	<u>WHEELBASE</u>	174"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 14 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	SHEPARD	<u>TURNING RADIUS</u>	26'5" CURB TO CURB
<u>FRONT BUMPER</u>	1/4" CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT "T" BEAM 13,200 LB.		
<u>REAR AXLE</u>	SPICER SINGLE SPEED 19,000 LB.	<u>RATIO</u>	4.60
<u>BRAKES</u>	FULL AIR – 13.2 CF. COMPRESSOR – 16.5" X 5" FRT. – 161/2" X 7" REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – PARABOLIC – 6,000 LB. EACH @ GROUND REAR SPRINGS – PROGRESSIVE TYPE – 9,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B OR CUMMINS ISB – 190HP – 520 FT.LBS. TORQUE @ 1400 HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	796 SQ. IN. – 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL "U" JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON – 60 GALLON DRAW – MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 950 CCA -EACH - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE -NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2" FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

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THOMAS MVP -EF - 72- PASSENGER DIESEL- AIR BRAKE

<u>GVWR</u>	30,000 LB	<u>WHEELBASE</u>	193"
<u>WHEELS</u>	DISC - 10 - STUD BUDD TYPE - 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 - 14 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER - 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	SHEPARD	<u>TURNING RADIUS</u>	29'0" CURB TO CURB
<u>FRONT BUMPER</u>	1/4" CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT "P" BEAM 13,200 LB.		
<u>REAR AXLE</u>	SPICER SINGLE SPEED 19,000 LB.	<u>RATIO</u>	4.60
<u>BRAKES</u>	FULL AIR - 13.2 CF. COMPRESSOR - 16.5" X 5" FRT. - 16 1/2" X 7" REAR - BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS - PARABOLIC - 6,000 LB. EACH @ GROUND REAR SPRINGS - PROGRESSIVE TYPE - 9,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B OR CUMMINS ISB - 190HP - 520 FT.LBS. TORQUE @ 1400 HAND THROTTLE - ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	796 SQ. IN. - 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL "U" JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON - 60 GALLON DRAW - MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT - 950 CCA - EACH - POSITIVE CABLE RED - NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE - NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2" FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

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THOMAS MVP -EF - 78- PASSENGER DIESEL- AIR BRAKE

<u>GVWR</u>	30,000 LB	<u>WHEELBASE</u>	212"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 14 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	SHEPARD	<u>TURNING RADIUS</u>	31'7" CURB TO CURB
<u>FRONT BUMPER</u>	¼" CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT "T" BEAM 13,200 LB.		
<u>REAR AXLE</u>	SPICER SINGLE SPEED 19,000 LB.	<u>RATIO</u>	4.60
<u>BRAKES</u>	FULL AIR – 13.2 CF. COMPRESSOR – 16.5" X 5" FRT. – 16 1/2" X 7" REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – PARABOLIC – 6,000 LB. EACH @ GROUND REAR SPRINGS – PROGRESSIVE TYPE – 9,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B OR CUMMINS ISB – 190HP – 520 FT.LBS. TORQUE @ 1400 HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	796 SQ. IN. – 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL "U" JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON – 60 GALLON DRAW – MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 950 CCA -EACH - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE -NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2" FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

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THOMAS MVP -EF - 84- PASSENGER DIESEL- AIR BRAKE

<u>GVWR</u>	30,000 LB	<u>WHEELBASE</u>	231"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 14 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	SHEPARD	<u>TURNING RADIUS</u>	34'2" CURB TO CURB
<u>FRONT BUMPER</u>	¼" CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT "T" BEAM 13,200 LB.		
<u>REAR AXLE</u>	SPICER SINGLE SPEED 19,000 LB.	<u>RATIO</u>	4.60
<u>BRAKES</u>	FULL AIR – 13.2 CF. COMPRESSOR – 16.5" X 5" FRT. – 16 1/2" X 7" REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – PARABOLIC – 6,000 LB. EACH @ GROUND REAR SPRINGS – PROGRESSIVE TYPE – 9,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B OR CUMMINS ISB – 190HP – 520 FT.LBS. TORQUE @ 1400 HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	796 SQ. IN. – 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL "U" JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON – 60 GALLON DRAW – MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 950 CCA -EACH - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE -NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2" FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
TO MEET REQUIREMENTS OF
VIRGINIA STATE BOARD OF EDUCATION**

THOMAS MVP -ER - 66- PASSENGER DIESEL- AIR BRAKE

<u>GVWR</u>	30,000 LB	<u>WHEELBASE</u>	181"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 12 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	ROSS TAS-65	<u>TURNING RADIUS</u>	27'4" CURB TO CURB
<u>FRONT BUMPER</u>	¼" CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT "P" BEAM 13,200 LB.		
<u>REAR AXLE</u>	DANA SINGLE SPEED 19,000 LB.	<u>RATIO</u>	4.88
<u>BRAKES</u>	FULL AIR – 13.2 CF. MIN. COMPRESSOR – 16.5" X 5" FRT. – 161/2" X 7" REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – PARABOLIC – 6,000 LB. EACH @ GROUND REAR SPRINGS – PROGRESSIVE TYPE – 9,250 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B OR CUMMINS ISB – 190HP – 520 FT.LBS. TORQUE @ 1400 HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	553 SQ. IN. – 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	DANA SPL SERIES GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON – 60 GALLON DRAW – MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 950 CCA -EACH - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE -NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2" FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
TO MEET REQUIREMENTS OF
VIRGINIA STATE BOARD OF EDUCATION**

THOMAS MVP -ER - 72- PASSENGER DIESEL- AIR BRAKE

<u>GVWR</u>	30,000 LB	<u>WHEELBASE</u>	209"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 14 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	ROSS TAS-65	<u>TURNING RADIUS</u>	31'3" CURB TO CURB
<u>FRONT BUMPER</u>	¼" CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT "P" BEAM 13,200 LB.		
<u>REAR AXLE</u>	DANA SINGLE SPEED 19,000 LB.	<u>RATIO</u>	4.88
<u>BRAKES</u>	FULL AIR – 13.2 CF. MIN. COMPRESSOR – 16.5" X 5" FRT. – 16 1/2" X 7" REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – PARABOLIC – 6,000 LB. EACH @ GROUND REAR SPRINGS – PROGRESSIVE TYPE – 9,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B OR CUMMINS ISB – 190HP – 520 FT.LBS. TORQUE @ 1400 HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	553 SQ. IN. – 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	DANA SPL SERIES GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON – 60 GALLON DRAW – MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 950 CCA -EACH - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE -NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2" FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
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VIRGINIA STATE BOARD OF EDUCATION**

THOMAS MVP-ER - 78- PASSENGER DIESEL- AIR BRAKE

<u>GVWR</u>	30,000 LB	<u>WHEELBASE</u>	238"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 14 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	ROSS TAS-65	<u>TURNING RADIUS</u>	35'2" CURB TO CURB
<u>FRONT BUMPER</u>	¼" CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT "P" BEAM 13,200 LB.		
<u>REAR AXLE</u>	DANA SINGLE SPEED 19,000 LB.	<u>RATIO</u>	4.88
<u>BRAKES</u>	FULL AIR – 13.2 CF. MIN. COMPRESSOR – 16.5" X 5" FRT. – 161/2" X 7" REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – PARABOLIC – 6,000 LB. EACH @ GROUND REAR SPRINGS – PROGRESSIVE TYPE – 9,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B OR CUMMINS ISB – 190HP – 520 FT.LBS. TORQUE @ 1400 HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	553 SQ. IN. – 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	DANA SPL SERIES GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON – 60 GALLON DRAW – MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 950 CCA -EACH - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE -NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2" FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
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THOMAS MVP -ER - 84- PASSENGER DIESEL- AIR BRAKE

<u>GVWR</u>	33,280 LB	<u>WHEELBASE</u>	267"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 8.25 RIM		
<u>TIRES</u>	11R22.5 – 14 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	ROSS TAS-65	<u>TURNING RADIUS</u>	39'1" CURB TO CURB
<u>FRONT BUMPER</u>	¼" CHANNEL STEEL		
<u>FRONT AXLE</u>	WESTPORT "P" BEAM 13,200 LB.		
<u>REAR AXLE</u>	DANA SINGLE SPEED 23,000 LB.	<u>RATIO</u>	4.88
<u>BRAKES</u>	FULL AIR – 13.2 CF. MIN. COMPRESSOR – 16.5" X 6" FRT. – 16 1/2" X 7" REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – PARABOLIC – 6,000 LB. EACH @ GROUND REAR SPRINGS – PROGRESSIVE TYPE – 11,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CAT 3126B 210 HP-605 FT.LBS. TORQUE @1440 – OR – CUMMINS ISB 215 HP – 605 FT. LBS. TORQUE @ 1600 HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	553 SQ. IN. – 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	ALLISON AUTOMATIC MT643 WITH FILTER AND QUADCO CONTROL		
<u>DRIVE SHAFT</u>	DANA SPL SERIES GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	64 GALLON – 60 GALLON DRAW – MOUNTED BETWEEN FRAME RAILS		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1-QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 950 CCA -EACH - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	160 AMP LEECE -NEVILLE - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND TO BUT NOT BEYOND 11/2" FROM REAR BUMPER		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, RUB RAILS AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
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FREIGHTLINER – 34 – PASSENGER – DIESEL – HYDRAULIC BRAKE

<u>GVWR</u>	23,000 LB.	<u>WHEELBASE</u>	150"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	9R22.5 – 12 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	ROSS TAS-40	<u>TURNING RADIUS</u>	20.6" CURB TO CURB
<u>FRONT BUMPER</u>	¼" CHANNEL STEEL		
<u>FRONT AXLE</u>	MERITOR "T" BEAM 8,000 LB.		
<u>REAR AXLE</u>	MERITOR SINGLE SPEED 15,000 LB.	<u>RATIO</u>	4.88
<u>BRAKES</u>	HYDRAULIC DISC – BENDIX DUAL SYSTEM WITH ABS		
<u>PARKING BRAKE</u>	PROPELLOR SHAFT BAND TYPE – 9" X 3" WITH ORSCHELN TYPE LEVER		
<u>SUSPENSION</u>	FRONT SPRINGS – TAPERED LEAF – 4,000 LB. EACH @ GROUND REAR SPRINGS – TAPERED LEAF – 7,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CUMMINS ISB – 175HP – DIESEL – 420 LB. FT. TORQUE @ 1500 RPM – VISCOUS FAN DRIVE HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	720 SQ. IN. - 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	EATON 5-SPEED DIRECT IN 5TH		
<u>CLUTCH</u>	14" SINGLE PLATE CERAMIC – STARTER SAFETY SWITCH		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL "U" JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	30 GALLON FILL – 25 GALLON DRAW – RIGHT SIDE MOUNTED		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1.3 -QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 1500 CCA - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	145 AMP DELCO - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND AT LEAST 5" BEYOND END OF FRAME – HEAT SHIELD		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		
<u>FRONT END</u>	LOW EFFORT TILT HOOD		

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
TO MEET REQUIREMENTS OF
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FREIGHTLINER – 52 – PASSENGER – DIESEL – HYDRAULIC BRAKE

<u>GVWR</u>	23,000 LB.	<u>WHEELBASE</u>	215"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	9R22.5 – 12 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	ROSS TAS-40	<u>TURNING RADIUS</u>	28.6' CURB TO CURB
<u>FRONT BUMPER</u>	1/4" CHANNEL STEEL		
<u>FRONT AXLE</u>	MERITOR "T" BEAM 8,000 LB.		
<u>REAR AXLE</u>	MERITOR SINGLE SPEED 15,000 LB.	<u>RATIO</u>	4.88
<u>BRAKES</u>	HYDRAULIC DISC – BENDIX DUAL SYSTEM WITH ABS		
<u>PARKING BRAKE</u>	PROPELLOR SHAFT BAND TYPE – 9" X 3" WITH ORSCHELN TYPE LEVER		
<u>SUSPENSION</u>	FRONT SPRINGS – TAPERED LEAF – 4,000 LB. EACH @ GROUND REAR SPRINGS – TAPERED LEAF – 7,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CUMMINS ISB – 175HP – DIESEL – 420 LB. FT. TORQUE @ 1500 RPM – VISCOUS FAN DRIVE HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	720 SQ. IN. - 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	EATON 5-SPEED DIRECT IN 5TH		
<u>CLUTCH</u>	14" SINGLE PLATE CERAMIC – STARTER SAFETY SWITCH		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL "U" JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	65 GALLON FILL – 61 GALLON DRAW – RIGHT SIDE MOUNTED		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1.3 -QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 1500 CCA - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	145 AMP DELCO - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND AT LEAST 5" BEYOND END OF FRAME – HEAT SHIELD		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		
<u>FRONT END</u>	LOW EFFORT TILT HOOD		

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
TO MEET REQUIREMENTS OF
VIRGINIA STATE BOARD OF EDUCATION**

FREIGHTLINER – 52 – PASSENGER – DIESEL – AIR BRAKE

<u>GVWR</u>	23,000 LB.	<u>WHEELBASE</u>	215"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 12 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	ROSS TAS-55	<u>TURNING RADIUS</u>	28.6' CURB TO CURB
<u>FRONT BUMPER</u>	¼" CHANNEL STEEL		
<u>FRONT AXLE</u>	MERITOR "T" BEAM 10,000 LB.		
<u>REAR AXLE</u>	MERITOR SINGLE SPEED 17,5000 LB.	<u>RATIO</u>	4.88
<u>BRAKES</u>	FULL AIR – 13.2 CF COMPRESSOR – 15" X 4" FRT. –161/2" X 7" REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – TAPERED LEAF – 4,000 LB. EACH @ GROUND REAR SPRINGS – TAPERED LEAF – 10,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CUMMINS ISB – 175HP – DIESEL – 420 LB. FT. TORQUE @ 1500 RPM – VISCOUS FAN DRIVE HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	720 SQ. IN. - 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	EATON 5-SPEED DIRECT IN 5TH –OR ALLISON AUTOMATIC		
<u>CLUTCH</u>	14" SINGLE PLATE CERAMIC – STARTER SAFETY SWITCH		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL "U"JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	65 GALLON FILL – 61 GALLON DRAW – RIGHT SIDE MOUNTED		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1.3 -QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 1500 CCA - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	145 AMP DELCO - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND AT LEAST 5" BEYOND END OF FRAME – HEAT SHIELD		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		
<u>FRONT END</u>	LOW EFFORT TILT HOOD		

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
TO MEET REQUIREMENTS OF
VIRGINIA STATE BOARD OF EDUCATION**

FREIGHTLINER – 64 – PASSENGER – DIESEL – HYDRAULIC BRAKE

<u>GVWR</u>	27,500 LB.	<u>WHEELBASE</u>	252"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 12 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	ROSS TAS-55	<u>TURNING RADIUS</u>	33'6" CURB TO CURB
<u>FRONT BUMPER</u>	¼" CHANNEL STEEL		
<u>FRONT AXLE</u>	MERITOR "T" BEAM 10,000 LB.		
<u>REAR AXLE</u>	MERITOR SINGLE SPEED 17,500 LB.	<u>RATIO</u>	4.88
<u>BRAKES</u>	HYDRAULIC DISC – BENDIX DUAL SYSTEM WITH ABS		
<u>PARKING BRAKE</u>	PROPELLOR SHAFT BAND TYPE – 9" X 3" WITH ORSCHELN TYPE LEVER		
<u>SUSPENSION</u>	FRONT SPRINGS – TAPERED LEAF – 5,000 LB. EACH @ GROUND REAR SPRINGS – TAPERED LEAF – 7,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CUMMINS ISB – 175HP – DIESEL – 420 LB. FT. TORQUE @ 1500 RPM – VISCOUS FAN DRIVE HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	720 SQ. IN. - 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	EATON 5-SPEED DIRECT IN 5 TH		
<u>CLUTCH</u>	14" SINGLE PLATE CERAMIC – STARTER SAFETY SWITCH		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL "U" JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	65 GALLON FILL – 61 GALLON DRAW – RIGHT SIDE MOUNTED		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1.3 -QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 1500 CCA - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	145 AMP DELCO - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND AT LEAST 5" BEYOND END OF FRAME – HEAT SHIELD		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		
<u>FRONT END</u>	LOW EFFORT TILT HOOD		

**SPECIFICATIONS FOR 2001 SCHOOL BUS CHASSIS
TO MEET REQUIREMENTS OF
VIRGINIA STATE BOARD OF EDUCATION**

FREIGHTLINER – 64 – PASSENGER – DIESEL – AIR BRAKE

<u>GVWR</u>	27,500 LB.	<u>WHEELBASE</u>	252"
<u>WHEELS</u>	DISC – 10 – STUD BUDD TYPE – 22.5 X 7.5 RIM		
<u>TIRES</u>	10R22.5 – 12 PLY TUBELESS RADIAL		
<u>FRAME</u>	ONE PIECE SIDE MEMBER – 10" X 3" X .250" FRONT TOW HOOKS		
<u>STEERING</u>	ROSS TAS-55	<u>TURNING RADIUS</u>	33.5' CURB TO CURB
<u>FRONT BUMPER</u>	¼" CHANNEL STEEL		
<u>FRONT AXLE</u>	MERITOR "T" BEAM 10,000 LB.		
<u>REAR AXLE</u>	MERITOR SINGLE SPEED 17,5000 LB.	<u>RATIO</u>	4.88
<u>BRAKES</u>	FULL AIR – 13.2 CF COMPRESSOR – 15" X 4" FRT. –161/2" X 7" REAR – BW DRYER		
<u>PARKING BRAKE</u>	SPRING LOADED REAR CHAMBERS		
<u>SUSPENSION</u>	FRONT SPRINGS – TAPERED LEAF – 5,000 LB. EACH @ GROUND REAR SPRINGS – TAPERED LEAF – 10,500 LB. EACH @ GROUND SHOCK ABSORBERS FRONT AND REAR		
<u>ENGINE</u>	CUMMINS ISB – 175HP – DIESEL – 420 LB. FT. TORQUE @ 1500 RPM – VISCOUS FAN DRIVE HAND THROTTLE – ELECTRONIC SET ECM TO MAX. ROAD SPEED OF 55 MPH		
<u>RADIATOR</u>	720 SQ. IN. - 190 DEGREE THERMOSTAT		
<u>TRANSMISSION</u>	EATON 5-SPEED DIRECT IN 5 TH –OR ALLISON AUTOMATIC		
<u>CLUTCH</u>	14" SINGLE PLATE CERAMIC – STARTER SAFETY SWITCH		
<u>DRIVE SHAFT</u>	GREASE FITTINGS ON ALL "U" JOINTS GUARDS ON ALL SHAFTS		
<u>FUEL TANK</u>	65 GALLON FILL – 61 GALLON DRAW – RIGHT SIDE MOUNTED		
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE		
<u>OIL FILTER</u>	1.3 -QUART SPIN-ON		
<u>BATTERY</u>	TWO 12 VOLT – 1500 CCA - POSITIVE CABLE RED – NEGATIVE CABLE BLACK		
<u>ALTERNATOR</u>	145 AMP DELCO - 4 GA. CHARGING AND GROUND CIRCUITS		
<u>HORN</u>	DUAL ELECTRIC		
<u>LIGHTS</u>	PER FMVSS108		
<u>EXHAUST</u>	16 GA. (MIN.) STEEL TO EXTEND AT LEAST 5" BEYOND END OF FRAME – HEAT SHIELD		
<u>GAUGES</u>	SPEEDOMETER TO SHOW TENTHS OF MILE TACHOMETER VOLTMETER TEMPERATURE GAUGE OIL PRESSURE GAUGE FUEL GAUGE		
<u>COLOR</u>	FRAME, WHEELS, AND BUMPER SHALL BE BLACK BALANCE TO BE NATIONAL SCHOOL BUS YELLOW PAINT SHALL MEET LEAD FREE STANDARDS		
<u>FRONT END</u>	LOW EFFORT TILT HOOD		