

School Bus EXHAUST CATALOG

Part No.
GRSB-05



www.grandrock.com

**GRAND
ROCK**

Exhaust Systems



Welcome to Grand Rock's latest catalog. At Grand Rock we utilize a variety of forming and fabricating equipment to bring you the highest quality exhaust systems for the Heavy Duty Truck, Medium Duty Truck, School Bus and Diesel Powered Pickup Truck markets.

Our equipment provides us the flexibility of handling exhaust systems ranging for 1.5" diameter to 8" diameter tube in cold roll, aluminized, and stainless steel.

We have redesigned this catalog to make your shopping quick, easy and informative. Please take the time to browse through our vast offering of parts. By using this catalog, you will be able to quickly find the parts you need. For more parts or other information, please find us online at www.grandrock.com.

We look forward to providing you with the highest level of service and satisfaction.

Thank you,

Grand Rock Company



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GENERAL INFORMATION

HOW TO USE THIS CATALOG

EASY READING APPLICATION LISTING FORMAT:

Applications are listed by gross vehicle weight and make in this catalog. Within make, the individual models are listed alphabetically. Models are listed from the latest to earliest. Within model years, applications are listed by engine size – from small to large.

A **BLUEBIRD** SCHOOL BUS APPLICATIONS

C

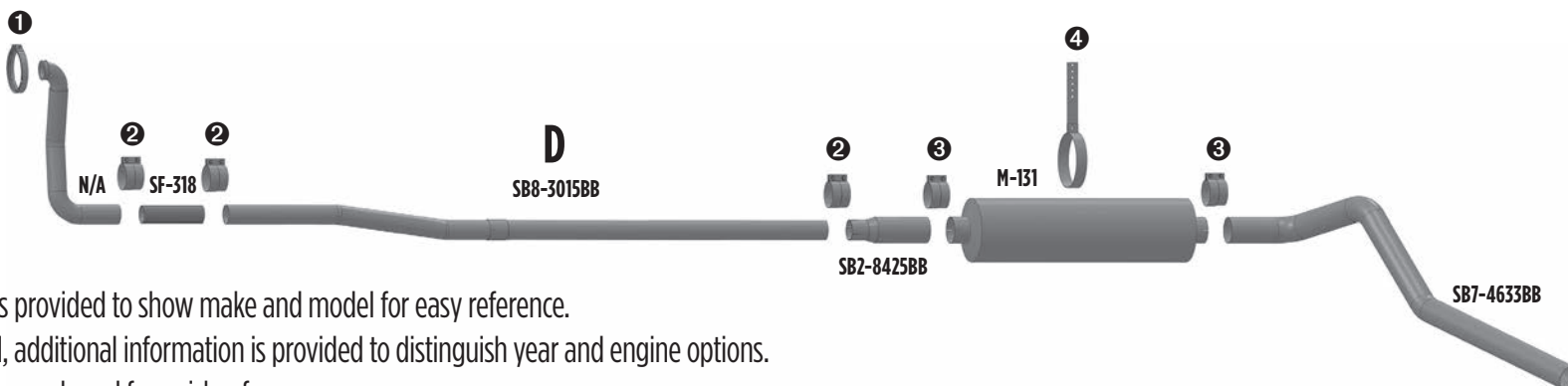
B

BB127 - '87 - '95 6 Cyl. Models with standard exhaust (Side Exit in Front of Rear Tire) TC2000; 5.9L Cummins Diesel Engine, Automatic Transmission

Clamps

- ① VB-321C
② WFC-3SS
③ WFC-4SS
④ RMH-9

E



- A. Basic Listing is provided to show make and model for easy reference.
- B. Within model, additional information is provided to distinguish year and engine options.
- C. Every listing is numbered for quick reference.
- D. Part numbers appear around each part for ease of use.
- E. Clamp and Hanger Charts for Easy Reference.

GENERAL INFORMATION

PRODUCT WARRANTY

TERMS

Net 30 days with pre-approved credit; VISA, MasterCard, American Express, Check-In-Advance, C.O.D. are available, fee may apply

FREIGHT POLICY

Freight is prepaid on all Standard Catalog orders of \$1,200.00 or more within the continental United States. Standard orders less than \$1,200.00 are shipped by most economical method, FOB Painesville, Ohio, Prepaid and Add; All MTO/Custom orders are Prepaid and Add. "Volume" Items, 25' Flex and M-465 Mufflers cannot be more than 50% of order to qualify for Free Freight

FREIGHT CLAIMS

The carrier is responsible for the merchandise while it is in transit to you. Be sure to **COUNT THE PIECES YOU ARE SIGNING FOR!** Make note on the freight bill of any visible loss or damage to your shipment before signing. If the damage is concealed, notify the carrier immediately. It is customer's responsibility to file a freight claim.

RETURNS

Minimum 15% restocking charge on stock parts. Special order, custom-made, damaged or obsolete parts are not returnable. No merchandise may be returned without prior permission and issuance of a Returned Goods Authorization (RGA) Number.

GENERAL INFORMATION

PRODUCT WARRANTY, CONTINUED

WARRANTY

Chrome-plated (except weld area) and aluminized parts, used on truck and school bus exhaust applications, are warranted against defective material and workmanship for a period of 1 year from date of shipment. It is the dealer's responsibility to inform its customers of our warranty conditions and of proper installation techniques. Grand Rock cannot be held responsible for damage done as a result of improper installation. If a part is determined to be defective, Grand Rock reserves the right to repair or replating only and return the part that has been modified, altered, or otherwise damaged. Neglect is not warranted! Keep Chrome parts clean and waxed! Warranty claims are limited to the purchase price.

MUFFLER WARRANTY

Four years or 500,000 miles for vertical application; three year or 150,000 miles for horizontal applications. Custom-made mufflers and the M-465 are excluded. This warranty applies to diesel engines only. Muffler must be installed properly. **Warranty claims are limited to the purchase price.**

MISCELLANEOUS

Minimum order of \$ 50.00 required. Prices are subject to change without notice. Please call for price and availability on any custom parts ,id/or items not shown in our catalog.

Large pipes are offered in cut lengths to reduce shipping cost

GENERAL INFORMATION

DIESEL EXHAUST MATERIALS

There are several materials used in heavy duty diesel exhaust applications. Some of the materials are appropriate for heavy duty applications. Other choices are not durable at the temperatures generated by diesel engines, especially with new pollution control systems, and should be avoided to provide acceptable service life. Materials selected must not only survive high temperatures, but also withstand severe vibration, corrosive exhaust gasses, and external corroding agents such as salt and water.

The materials generally considered for exhaust parts are as follows:

Aluminized Steel Is the preferred material for most heavy duty diesel applications. Aluminized Steel is a low carbon steel with a thin layer of aluminum alloyed to the surface. The aluminum provides galvanic protection for the base material. Aluminized Steel parts have an ultimate service temperature of 1250° F with a continuous duty temperature of 1100°F. This material has excellent corrosion resistance to acidic diesel exhaust gasses. Aluminized Steel parts provide excellent field life at a reasonable cost.

400 Series Stainless Steels are used for extended service life in diesel applications due to their higher operating temperatures. This material family provides slightly better strength at exhaust system temperatures than aluminized steel.

The most common 400 Series Steel that is used in exhaust applications is Type 409. It is stronger than aluminized but has cosmetic problems at exhaust system temperature. At first exposure to high temperature it discolors. Over time it develops a nondestructive coating of surface rust. After an extended time in the field a 409 product will display external discoloration and look worse than a similar aluminized part. Parts made with type 409 generally require some type of paint or other coating to slightly delay the onset of external discoloration. The parts will hold a magnet due to higher iron content.

Another type is **409 Stainless Steel** with an Aluminum coating. Aluminized 409 SS are used on Diesel Catalytic Converter mufflers due to its excellent high temperature

resistance and the corrosion protection of the aluminized coating. This is a premium material found primarily on emission products or high temperature gas applications.

300 Series Stainless Steels are also used in exhaust systems. The most common material is Type 304. This material has excellent corrosion resistance and very good high temperature strength and is used in some muffler applications where very high stresses occur. It is also used as a premium material for gas applications. The most prevalent use of the material in diesel heavy duty applications is for flex pipe. Flex pipe produced from light gauge 304 Stainless Steel is an excellent choice considering all the factors of cost, durability, and service life. In general field service life with stainless steel flex pipe is very good if the flex tubing is installed properly.

Galvanized Steel parts are sometimes used in the exhaust market. Galvanized Steel has very poor field performance. This material has an upper temperature limit of approximately 600°F. At temperatures greater than 600°F the material rapidly corrodes with a resulting degradation in appearance and probable failure. Galvanized Steel is often used for flex pipe as a low cost replacement part. The initial low cost is offset by the limited field life of the product.

Cold Rolled Steel (CRS) is a very poor choice for any exhaust system part. This material is extremely susceptible to corrosion. These parts are only used when the lowest possible cost is desired. It is rare to find mufflers made of cold rolled steel, but there are stacks offered in some markets in Cold Rolled Steel. Clamps are another product commonly produced out of Cold Rolled Steel. Clamps are not exposed to the corrosive acids found in the exhaust gasses but the high temperatures cause clamps to degrade rapidly in appearance and in function. Cold Rolled Steel clamps can be very difficult to remove after a short time in the field.

GENERAL INFORMATION

SCHOOL BUS CONVERSION CHART

WHEEL BASE TO PASSENGER SEATING CAPACITY (Excluding State of Texas)

BLUEBIRD

WHEEL BASES	PASSENGER CAPACITIES
125"	19, 20, 21
149"	54
179", 186.5"	60
194", 201.5"	66
209", 216.5"	72
224", 231.5"	78
239", 246.5"	84
254"	90

FORD

WHEEL BASES	PASSENGER CAPACITIES
151", 156"	36
192", 198"	48
216", 222"	54
237", 242"	60
255", 260"	66
275", 280"	72

CHEVROLET/GMC

WHEEL BASES	PASSENGER CAPACITIES
125"	17, 18, 19
149.5"	36
189", 189.5"	42, 48
218"	54
235", 235.5"	60
254"	66
274"	72

CHEVROLET/GMC

WHEEL BASES	PASSENGER CAPACITIES
151", 152"	36, 39
168", 169", 170"	42, 45
187", 193"	48, 51
205", 217", 218"	54, 57, 63
236"	60
254"	66
275", 276"	72

GENERAL INFORMATION

SCHOOL BUS EXHAUST - FLEET SURVEY FORM

Fleet Name

Pts. Mgr.

Street

Phone

City/State

Exhaust Brands

Owner/Manager

Suppliers

Maint. Supervisor

VEHICLE				ENGINE		EXHAUST SYSTEM*				
SCHOOL BUS #	YEAR	MAKE	MODEL	MAKE	SIZE	DIA.	TRANS. TYPE	W.B.	SUSPENSION	PIPE EXIT

*TRANS. TYPE (A) FOR AUTOMATIC. (S) FOR STANDARD // SUSPENSION (A) FOR AIR RIDE. (S) FOR SPRING // PIPE EXIT (L) FOR LEFT SIDE.(R) FOR RIGHT SIDE.(SE) FOR SIDE EXIT.(UB) FOR UNDER BUMPER. (TB) FOR THROUGH BUMPER

General Comments

Call Made By

Date

UNIVERSAL PARTS

- **STACKS**
- **TUBING**
- **CONNECTORS**
- **COUPLERS**
- **REDUCERS**
- **ELBOWS**

**GRAND
ROCK**

STACKS CURVED STACKS

LENGTH ►	12"	18"	24"
BOTTOM ▼	3" DIAMETER CURVED ▼		

3" OD Alz. K3-12SBA K3-18SBA K3-24SBA

3" ID Alz. K3-12EXA K3-18EXA K3-24EXA

LENGTH ►	12"	18"	24"	36"	48"
BOTTOM ▼	3.5" DIAMETER CURVED ▼				

3.5" OD Alz. K35-12SBA - K35-24SBA - -

3.5" ID Alz. K35-12EXA K35-18EXA K35-24EXA K35-36EXA K35-48EXA

LENGTH ►	12"	18"	24"	36"	48"	60"
BOTTOM ▼	4" DIAMETER CURVED ▼					

4" OD Alz. K4-12SBA K4-18SBA K4-24SBA K4-36SBA K4-48SBA K4-60SBA

4" ID Alz. K4-12EXA K4-18EXA K4-24EXA K4-36EXA K4-48EXA K4-60EXA

LENGTH ►	12"	18"	24"	36"	48"	53"	60"
BOTTOM ▼	5" DIAMETER CURVED ▼						

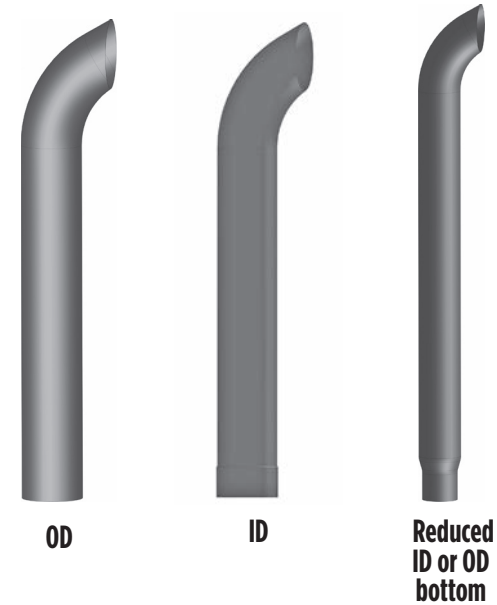
5" OD Alz. K5-12SBA K5-18SBA K5-24SBA K5-36SBA K5-48SBA K5-53SBA K5-60SBA

5" ID Alz. K5-12EXA K5-18EXA K5-24EXA K5-36EXA K5-48EXA - K5-60EXA

LENGTH ►	12"	18"	24"
BOTTOM ▼	6" DIAMETER CURVED ▼		

6" OD Alz. - K6-18SBA

6" ID Alz. - K6-18EXA



STACKS STRAIGHT STACK

STRAIGHT STACKS

LENGTH ►	12"	18"	24"	36"	48"	60"
BOTTOM ▼	3" DIAMETER STRAIGHT-CUT ▼					

3" ID ALZ.	S3-12EXA	S3-18EXA	S3-24EXA	S3-36EXA	S3-48EXA	S3-60EXA
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LENGTH ►	12"	18"	24"	36"	48"	60"
BOTTOM ▼	3.5" DIAMETER STRAIGHT -CUT ▼					

3.5" ID ALZ.	S35-12EXA	S35-18EXA	S35-24EXA	S35-36EXA	S35-48EXA	S35-60EXA
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LENGTH ►	12"	18"	24"	36"	48"	60"	72"
BOTTOM ▼	4" DIAMETER STRAIGHT-CUT ▼						

4" OD ALZ.	-	-	S4-24SBA	S4-36SBA	S4-48SBA	S4-60SBA	-
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4" ID ALZ.	S4-12EXA	S4-18EXA	S4-24EXA	S4-36EXA	S4-48EXA	S4-60EXA	S4-72EXA
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LENGTH ►	12"	18"	24"	36"	48"	60"	72"
BOTTOM ▼	5" DIAMETER STRAIGHT-CUT ▼						

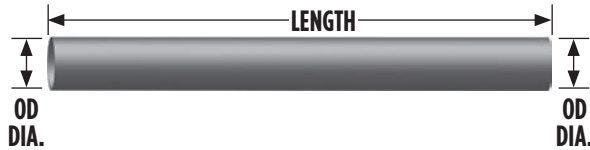
5" OD ALZ.	-	-	S5-24SBA	S5-36SBA	S5-48SBA	S5-60SBA	S5-72SBA
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5" ID ALZ.	S5-12EXA	S5-18EXA	S5-24EXA	S5-36EXA	S5-48EXA	S5-60EXA	S5-72EXA
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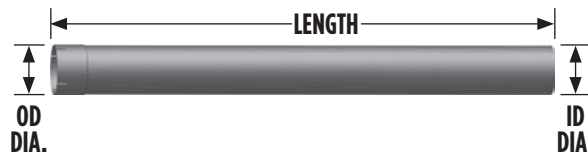
CONNECTORS, REDUCERS & REPAIR SECTIONS STRAIGHT TUBING

TUBING O.D. - O.D.



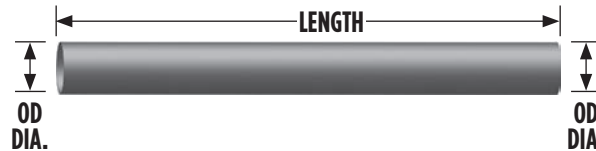
DIA.	LENGTH	PLAIN PART NO.	ALUMINIZED PART NO.
2"	120"	—	S2-120SBA
2.25"	120"	—	S225-120SBA
2.5"	120"	—	S25-120SBA
2.75"	120"	—	S275-120SBA
3"	120"	S3-120SB	S3-120SBA
3.5"	120"	S35-120SB	S35-120SBA
4"	120"	S4-120SB	S4-120SBA
5"	120"	S5-120SB	S5-120SBA
6"	120"	S6-120SB	S6-120SBA
7"	120"	S7-120SB	S7-120SBA
8"	120"	—	S8-120SBA
10"	120"	—	S10-120SBA
3"	168"	—	S3-168SBA
3.5"	168"	—	S35-168SBA
4"	168"	—	S4-168SBA
5"	168"	—	S5-168SBA

**ALUMINIZED STEEL TUBING
(one end expanded & slotted, I.D./O.D.)**



SIZE	LENGTH	PART NO.
3"	10'	S3-120EXA
4"	10'	S4-120EXA
5"	10'	S5-120EXA

409 STAINLESS ALUMINIZED STEEL TUBING



O.D.	GAUGE	LENGTH	PART NO.
3"	16	10'	S3-120SBS4
3.5"	16	10'	S35-120SBS4
4"	16	10'	S4-120SBS4
5"	16	10'	S5-120SBS4

TUBING I.D. - I.D.

DIA.	LENGTH	ALUMINIZED PART NO.
3"	120"	S3-120EXEXA
3.5"	120"	S35-120EXEXA
4"	120"	S4-120EXEXA
5"	120"	S5-120EXEXA
6"	120"	S6-120EXEXA



NOTE: Too Large for Ground Package, must ship by truck

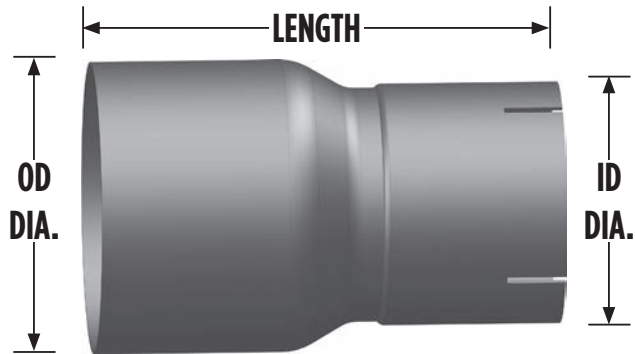
CONNECTORS, REDUCERS & REPAIR SECTIONS REPAIR SECTIONS

DIA.	LENGTH	ALUMINIZED PART NO.
3"	12"	RS-312A
3"	18"	RS-318A
3"	24"	RS-324A
3"	36"	RS-336A
3"	48"	RS-348A
3.5"	12"	RS-3512A
3.5"	18"	RS-3518A
3.5"	24"	RS-3524A
3.5"	36"	RS-3536A
3.5"	48"	RS-3548A
4"	12"	RS-412A
4"	18"	RS-418A
4"	24"	RS-424A
4"	36"	RS-436A
4"	48"	RS-448A
5"	12"	RS-512A
5"	18"	RS-518A
5"	24"	RS-524A
5"	36"	RS-536A
5"	48"	RS-548A



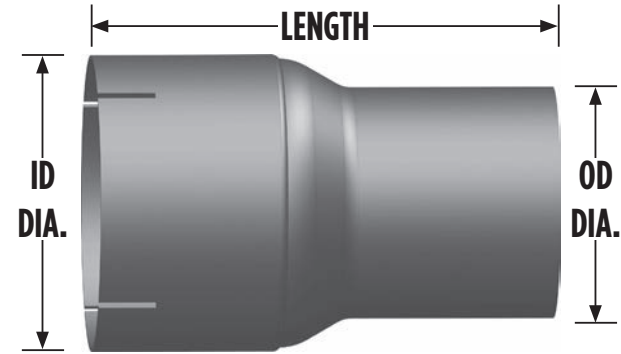
- Perfect for splicing in sections
- 16ga Aluminized Steel

CONNECTORS, REDUCERS & REPAIR SECTIONS REDUCERS



REDUCERS O.D. - I.D.

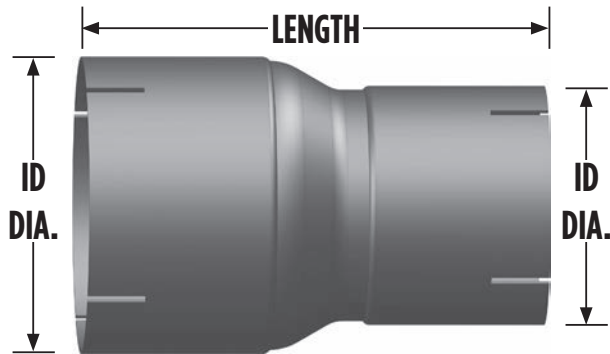
OD DIA.	ID DIA.	LENGTH	ALUMINIZED PART NO.
3"	2.5"	8"	R30-25IA
3.5"	3"	8"	R350-3IA
4"	3"	8"	R40-3IA
4"	3.5"	8"	R40-35IA
4.5"	4"	8"	R450-4IA
5"	4"	8"	R50-4IA
5"	4.5"	8"	R50-45IA
6"	4"	8"	R60-4IA
6"	5"	8"	R60-5IA
7"	5"	8"	-
8"	5"	8"	R80-5IA



REDUCERS I.D. - O.D.

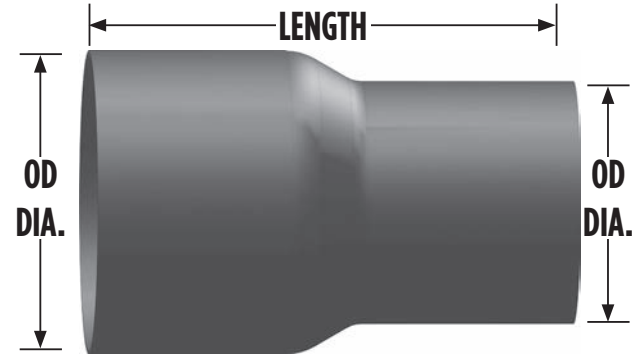
ID DIA.	OD DIA.	LENGTH	ALUMINIZED PART NO.
3"	2.5"	8"	R3I-250A
3.5"	3"	8"	R35I-30A
4"	3"	8"	R4I-30A
4"	3.5"	8"	R4I-350A
4.5"	4"	8"	R45I-40A
5"	4"	8"	R5I-40A
5"	4.5"	8"	R5I-450A
6"	4"	8"	R6I-40A
6"	5"	8"	R6I-50A
7"	5"	8"	-
8"	5"	8"	R8I-50A

CONNECTORS, REDUCERS & REPAIR SECTIONS REDUCERS



REDUCERS I.D. - I.D.

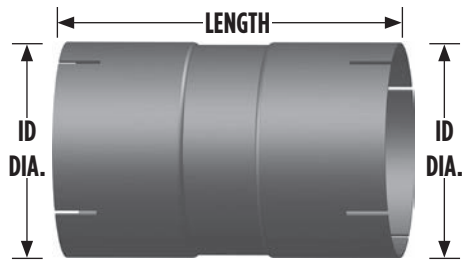
ID DIA.	ID DIA.	LENGTH	ALUMINIZED PART NO.
3"	2.5"	8"	R3I-25IA
3.5"	3"	8"	R35I-3IA
4"	3"	8"	R4I-3IA
4"	3.5"	8"	R4I-35IA
4.5"	4"	8"	R45I-4IA
5"	4"	8"	R5I-4IA
5"	4.5"	8"	R5I-45IA
6"	4"	8"	R6I-4IA
6"	5"	8"	R6I-5IA
7"	5"	8"	-
8"	5"	8"	R8I-5IA



REDUCERS O.D. - O.D.

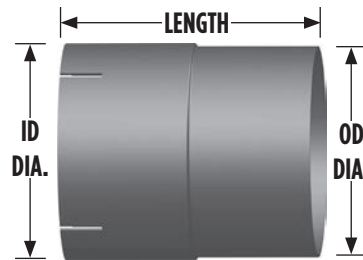
OD DIA.	OD DIA.	LENGTH	ALUMINIZED PART NO.
3"	2.5"	8"	R3O-25OA
3.5"	3"	8"	R35O-3OA
4"	3"	8"	R4O-3OA
4"	3.5"	8"	R4O-35OA
4.5"	4"	8"	R45O-4OA
5"	4"	8"	R5O-4OA
5"	4.5"	8"	R5O-45OA
6"	4"	8"	R6O-4OA
6"	5"	8"	R6O-5OA
7"	5"	8"	R7O-5OA
8"	5"	8"	R8O-5OA

CONNECTORS, REDUCERS & REPAIR SECTIONS COUPLERS & CONNECTORS



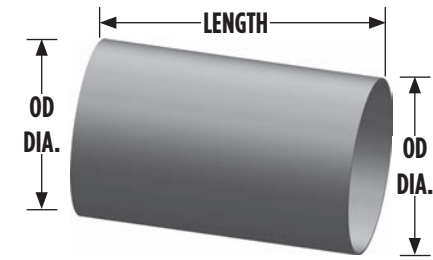
COUPLERS I.D. - I.D.

DIA.	LENGTH	ALUMINIZED PART NO.
2"	8"	CP-28A
2.25"	8"	CP-2258A
2.5"	8"	CP-258A
3"	8"	CP-38A
3.5"	8"	CP-358A
4"	8"	CP-48A
4.5"	8"	CP-458A
5"	8"	CP-58A
6"	8"	CP-68A
7"	8"	CP-78A
8"	8"	CP-88A



CONNECTORS I.D. - O.D.

DIA.	LENGTH	ALUMINIZED PART NO.
2"	6"	CN-28A
2.25"	6"	CN-2258A
2.5"	6"	CN-258A
3"	6"	CN-36A
3.5"	6"	CN-356A
4"	6"	CN-46A
4.5"	6"	CN-456A
5"	6"	CN-56A
6"	6"	CN-66A
7"	6"	CN-76A
8"	6"	CN-86A

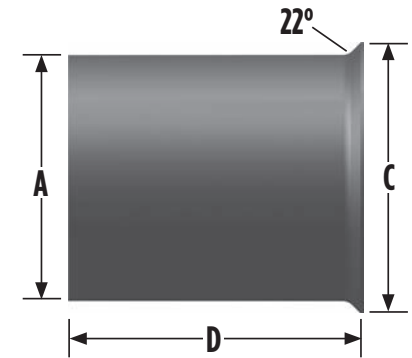


CONNECTORS O.D. - O.D.

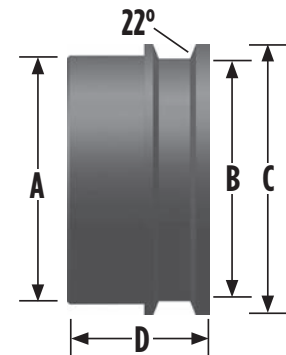
DIA.	LENGTH	ALUMINIZED PART NO.
2"	8"	S2-8SBA
2.25"	8"	S225-8SBA
2.5"	8"	S25-8SBA
3"	8"	S3-8SBA
3.5"	8"	S35-8SBA
4"	8"	S4-8SBA
4.5"	8"	S45-8SBA
5"	8"	S5-8SBA
6"	8"	S6-8SBA
7"	8"	S7-8SBA
8"	8"	S8-8SBA

CONNECTORS, REDUCERS & REPAIR SECTIONS TURBO & MANIFOLD OUTLET ADAPTERS

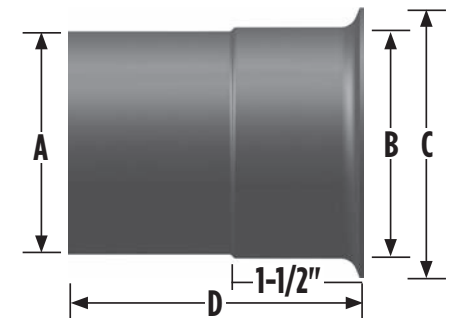
PART #	STYLE	A	B	C	D	FLARE	APPLICATION	USED WITH V-BAND CLAMP #	BREEZE
AD-311MF	B	2.86"OD	2.79"ID	3.114"	1.62"	22°	OE#3910990 5.9L Cummins	VB-321C	VT-10323
AD-411MF	B	3.86"OD	3.725"ID	4.00"	2.125"	22°	OE#3910995 8.3L Cummins	VB-413C	VT-10413
T321-2	A	2.75"OD		3.21"	2"	22°	OE#3910990 5.9L Cummins	VB-321C	VT10321
T321-3ID	C	3"OD	3"ID	3.21"	3"	22°		VB-321C	VT10321
T375-6ID	C	3"ID		3.75"	6"	22°		VB-301I	VT10388
T375-6	A	3"OD		3.75"	6"	22°		VB-301I	VT10388
T400-6	A	3.5"OD	3.5"ID	4.00"	6"	45°	Detroit Diesel		
T407-4	A	3.5"OD	3.5"ID	4.07"	4"	22°	3208T Cat.	VB-419C	
T425-4	A	3.5"OD	3.5"ID	4.25"	4"	22°	7.3 Ford Powerstroke	VB-384F	
T450-6	A	4"OD	4"ID	4.5"	6"	45°	Cummins		VT10450
T461-4	A	4"OD	4"ID	4.61"	4"	22°	3306 Cat.	VB-461M	VT10461
T461-4	A	4"OD	4"ID	4.61"	4"	22°	Most 6 Cyl. Macks	VB-461M	VT10461
T475-4	A	4"OD	4"ID	4.75"	4"	22°	L10 Cummins & 3176 Cat	VB-475C	VT10475
T475-4	A	4"OD	4"ID	4.75"	4"	22°	8.2T Detroit Diesel, 6-71, 12V-71	VB-475D	VT10475
T525-2	B	4.865"OD	4.25"ID	5.25"	2"	20°	Machined Flange Air Research Turbo	VB-525D	VT10525
T525-4	A	5"OD	5"ID	5.25"	4"	22°	6V & 8V92T Detroit	VB-525D	VT10525
T550-6	A	5"OD	5"ID	5.5"	6"	45°	N14 & ISX Cummins		
T588-6 PYRO	A	5"OD	5"ID	5.88"	6"	22°	Cummins NTC	VB-588C	VT10588
T588-6	A	5"OD	5"ID	5.88"	6"	22°	3406 & C15 Cat.	VB-588C	VT10588
T588-6	A	5"OD	5"ID	5.88"	6"	22°	855 C.I. Cummins W/T50 Turbo	VB-588C	VT10588
T588-6	A	5"OD	5"ID	5.88"	6"	22°	60 Series Detroit	VB-588C	VT10588
T362-6ID	C	3"OD	3"ID	3.62"	6"	22°	Detroit Diesel 6V71		VT10382
T425-6ID	C	3.5"OD	3.5"ID	4.25"	6"	22°	Detroit Diesel 8V71		VT10450A
T475-6ID	C	4"OD	4"ID	4.75"	6"	22°	Detroit Diesel 12V71	VB-475D	VT10475



STYLE A

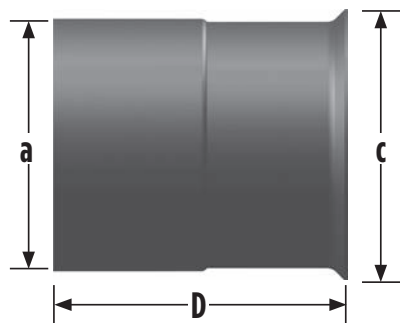


STYLE B - MACHINED

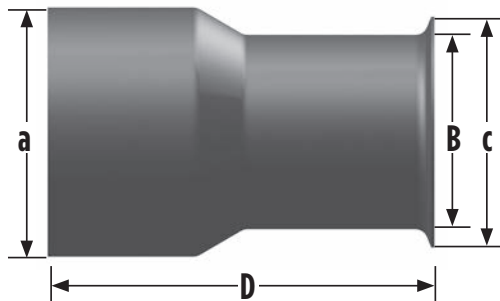


STYLE C

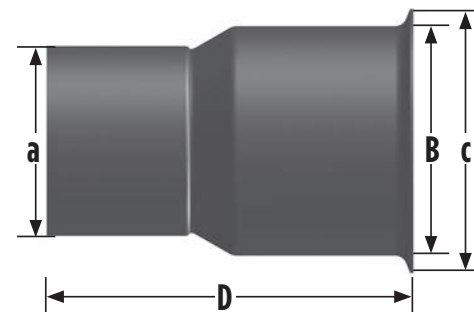
CONNECTORS, REDUCERS & REPAIR SECTIONS TURBO & MANIFOLD OUTLET ADAPTERS, CONTINUED



STYLE D



STYLE E



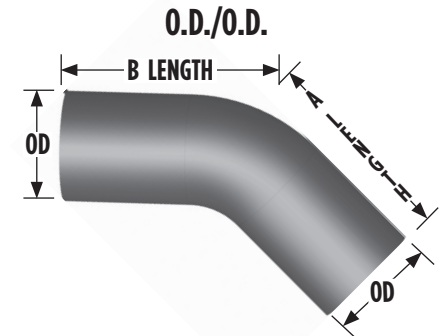
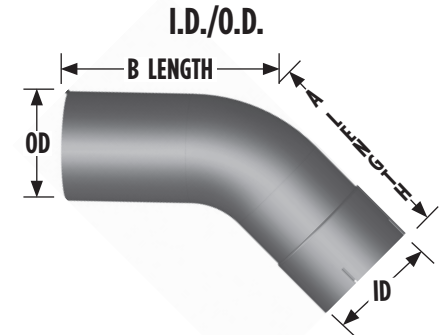
STYLE F

PART #	STYLE	A	B	C	D	FLARE	APPLICATION	USED WITH V-BAND CLAMP #	BREEZE
TURBO REPAIR FLANGES									
TRF-4625	D	4"ID	4"ID	4.625"	2"	22°	Replaces Cat # 9N-6325	VB-461D	VT10461
TRF-475	D	4"ID	4"ID	4.75"	2"	22°	T35 Turbo, L10 & 3176	VB-475C	VT10475
TRF-588	D	5"ID	5"ID	5.88"	2"	22°	T50 Turbo, N14, ISX, 3406, C15, 60 Series	VB-588C	VT10588-1
TRF-550	D	5"ID	5"ID	5.5"	2"	22°	T50 Turbo, N14, ISX, 3406, C15, 60 Series	VB-588C	VT10588-1
TRF-450	D	4"ID	4"ID	4.5"	2"	22°	C7, 3116 & 3126 CAT	VB-461D	VT10461
TRF-425	D	3.5"ID	3.5"ID	4.25"	2"	22°	DT-466, DT-408, DT-360, VT-365	VB-350I	
T475-8E	E	5"ID	4"OD	4.75"	8"	22°	T35 Turbo, L10, 3176	VB-475C	VT10475
T588-8F	F	4"ID	5"OD	5.75"	8"	22°	T50, 3406, N14, ISX 60 Series Detroit	VB-588C	VT10588
IF PYROMETER FITTING IS NEEDED, ADD (PYRO) TO THE PART NUMBER. ALL OF THESE PARTS ARE ALUMINIZED!									

ELBOWS & Y-PIPES ELBOWS

DIA.	LENGTH A&B	CENTER LINE RADIUS	ALUMINIZED PART#	ALUMINIZED PART#
15° ELBOWS			I.D./O.D.	O.D./O.D.
3"	4"	3.5"	L315-0404A	L315-0404SA
3.5"	4"	5"	L3515-0404A	L3515-0404SA
4"	4"	4.5"	L415-0404A	L415-0404SA
5"	4"	5.5"	L515-0404A	L515-0404SA
30° ELBOWS			I.D./O.D.	O.D./O.D.
3"	4"	3.5"	L330-0404A	L330-0404SA
3.5"	4"	5"	L3530-0404A	L3530-0404SA
4"	4"	4.5"	L430-0404A	L430-0404SA
5"	4"	5.5"	L530-0404A	L530-0404SA

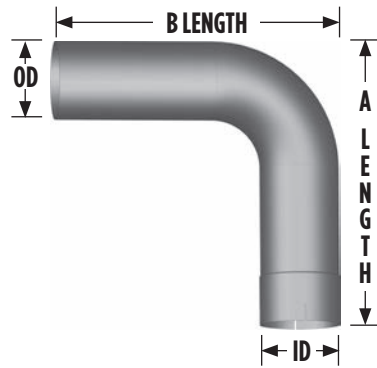
DIA.	LENGTH A&B	CENTER LINE RADIUS	ALUMINIZED PART#	ALUMINIZED PART#
45° ELBOWS			I.D./O.D.	O.D./O.D.
2.5"	6"	3"	L2545-0606A	L2545-0606SA
3"	8"	4"	L345-0808A	L345-0808SA
3.5"	9"	5"	L3545-0909A	L3545-0909SA
4"	6"	4.5"	L445-0606A	L445-0606SA
4"	9"	4.5"	L445-0909A	L445-0909SA
4"	12"	4.5"	L445-1212A	L445-1212SA
5"	8"	5.5"	L545-0808A	L545-0808SA
5"	12"	5.5"	L545-1212A	L545-1212SA
6"	15"	6"	L645-1515A	L645-1515SA
60° ELBOWS			I.D./O.D.	O.D./O.D.
3"	8"	3.5"	L360-0808A	L360-0808SA
3.5"	8"	5"	L3560-0808A	L3560-0808SA
4"	8"	4.5"	L460-0808A	L460-0808SA
4"	8"	4.5"	L460-1010A	L460-1010SA
4"	12"	4.5"	L460-1212A	L460-1212SA
5"	10"	5.5"	L560-1010A	L560-1010SA



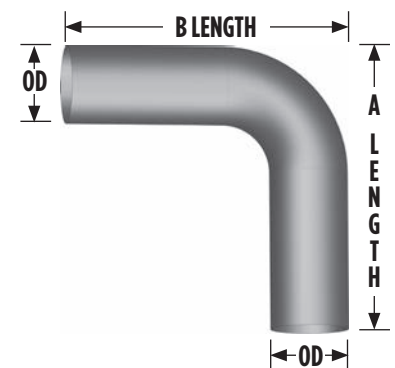
NOTE: Leg length is measured to the backside not the center line.

ELBOWS & Y-PIPES 90° ELBOWS

DIA.	LENGTH A&B	CENTER LINE RADIUS	I.D./O.D. ALUMINIZED PART#
2.5"	12"	4.5"	L2590-1212A
3"	7"	4"	L390-0707A
3"	8"	4"	L390-0808A
3"	10"	4"	L390-1010A
3"	14"	4"	L390-1414A
3.5"	8"	5"	L3590-0808A
3.5"	12"	5"	L3590-1212A
3.5"	16"	5"	L3590-1616A
4"	8"	4.5"	L490-0808A
4"	10"	4.5"	L490-1010A
4"	12"	4.5"	L490-1212A
4"	15"	4.5"	L490-1515A
4"	18"	4.5"	L490-1818A
4"	18x29	4.5"	L490-1829A
5"	10"	5.5"	L590-1010A
5"	12"	5.5"	L590-1212A
5"	15"	5.5"	L590-1515A
5"	18"	5.5"	L590-1818A
5"	18x32	5.5"	L590-1832A
5"	13.5"	8"	L590-1313A-8
5"	17.5"	8"	L590-1818A-8
6"	13"	7"	L690-1313A
6"	24"	7"	L690-2424A



DIA.	LENGTH A&B	CENTER LINE RADIUS	O.D./O.D. ALUMINIZED PART#
2.5"	12"	4.5"	L2590-1212SA
3"	6"	4"	L390-0606SA
3"	7"	4"	L390-0707SA
3"	10"	4"	L390-1010SA
3"	14"	4"	L390-1414SA
3.5"	8"	5"	L3590-0808SA
3.5"	12"	5"	L3590-1212SA
3.5"	16"	5"	L3590-1616SA
4"	6"	4-1/2"	L490-0606SA
4"	8"	4-1/2"	L490-0808SA
4"	10"	4-1/2"	L490-1010SA
4"	12"	4-1/2"	L490-1212SA
4"	15"	4-1/2"	L490-1515SA
4"	18"	4-1/2"	L490-1818SA
4"	18 x 29"	4-1/2"	L490-1829SA
5"	10"	5-1/2"	L590-1010SA
5"	12"	5-1/2"	L590-1212SA
5"	15"	5-1/2"	L590-1515SA
5"	18"	5-1/2"	L590-1818SA
5"	18 x 32"	5-1/2"	L590-1832SA
5"	13.5"	8	L590-1313SA-8
5"	17.5"	8	L590-1818SA-8
6"	13"	7"	L690-1313SA
6"	24"	7"	L690-2424SA

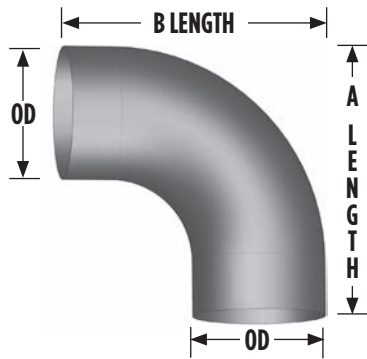


NOTE: Leg length is measured to the backside not the center line.

ELBOWS & Y-PIPES 90° TANGENT CUT ELBOWS, 45° & 90° ELBOWS

90° TANGENT CUT ELBOWS

- Cut at tangent NO straight
- Ideal for welding & repairing
- OD/OD only



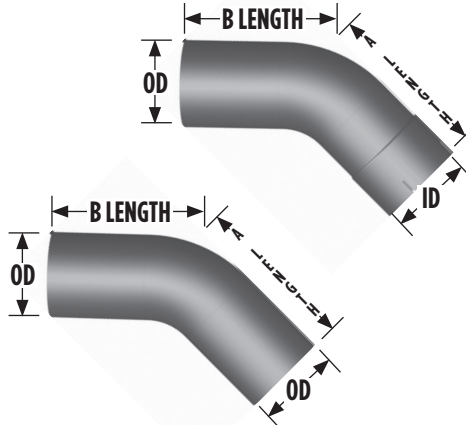
DIA.	LENGTH A&B	CENTER LINE RADIUS	ALUMINIZED PART#
3"	5"	3.5"	L390-0505SA
3.5"	6.75"	5"	L3590-675675SA
4"	6.5"	4.5"	L490-6565SA
5"	8"	5.5"	L590-0808SA
6"	10"	7"	L690-1010SA
7"	11.5"	8"	L790-1212S*
8"	12"	12"	L890-2020S*

* Cold rolled steel and make to order, call for lead time

ALUMINIZED COATED STAINLESS STEEL EXHAUST PARTS

45° Elbows

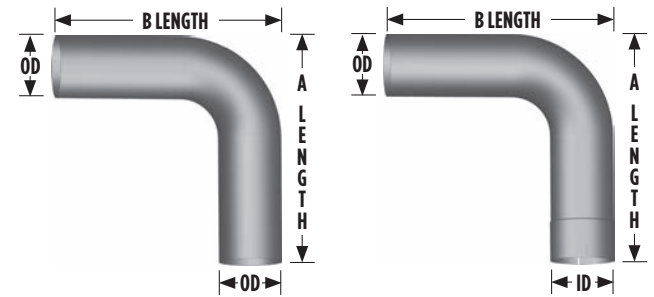
- 409 Stainless Aluminized
- 14 gauge



DIA.	LENGTH A&B	CENTER LINE RADIUS	ID/OD PART#	OD/OD PART#
4"	9"	4.5"	L445-0909S4	L445-0909S4S
5"	12"	5.5"	L545-1212S4	L545-1212S4S

90° Elbows

These parts are not a bright finish.



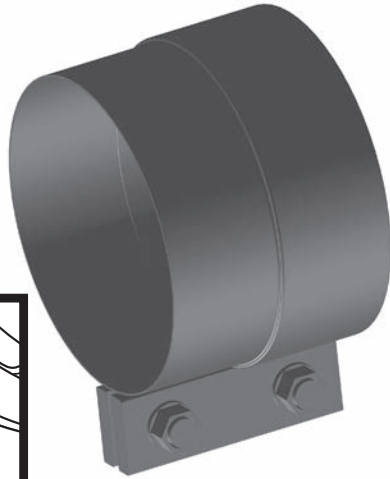
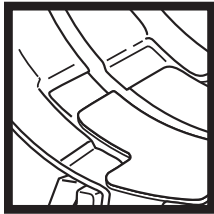
NOTE: Leg lengths are measured to the backside, not center line

DIA.	LENGTH A&B	CENTER LINE RADIUS	ID/OD PART#	OD/OD PART#
4"	12"	4.5"	L490-1212S4	L490-1212S4S
4"	18"	4.5"	L490-1818S4	L490-1818S4S
5"	12"	5.5"	L590-1212S4	L590-1212S4S
5"	18"	5.5"	L590-1818S4	L590-1818S4S

CLAMPS & BRACKETS

**GRAND
ROCK**

CLAMPS BAND CLAMPS



THE WFC SERIES: A GRAND ROCK EXCLUSIVE CLAMP

- LAP-JOINTS (Step Clamp)
- .030" Gauge Material — Heaviest in the Industry
- 304 Bright Stainless Steel or Aluminized Steel
- Unique Grade 8 Reversible Hardware – One Hand Tightening
- 3", 3.5", 4", & 5" Sizes
- Welded Flap Prevents Leakage at Closing Point
- ONLY AVAILABLE FROM GRAND ROCK
- The Preferred Pre-Formed Clamp



THE STC SERIES: (Super Torque Clamp)

- LAP-JOINTS (Step Clamp)
- .030" Gauge Material — Heaviest in the Industry
- 304 Bright Stainless Steel Only
- Threaded Block for One Hand Tightening
- 3", 3.5", 4", & 5" Sizes
- Seal Feature Resists Leakage



THE PF SERIES GENUINE TorcTite™ Clamp

- LAP-JOINTS (Step Clamp)
- Bright Stainless, Polished Stainless, or Aluminized
- Available Pre-Assembled & Individually Boxed
- Available in Nested 10-Pack Bulk Cartons
- 2" thru 6" Sizes
- The Most Widely Used Clamp with OEM's

CLAMPS BAND CLAMPS

GENUINE TORCTITE™ BULK 10-PACK NESTED CLAMPS



TorcTite™ Bulk Clamps come in a compact carton containing 10 clamps nested, & 10 hardware packs.

Each individual clamp includes all TorcTite™ hardware in a separate poly bag

- For all LAP-JOINTS (Step Clamp)
- Reversible Hardware (unique to the bulk TorcTites)
- Lower Cost
- Saves Space
- Same Great TorcTite™ Clamp! (our PF Series)
- Available in 3-1/2" thru 6" Diameters
- Bright 304 Stainless or Aluminized

THE EZ SERIES

- Genuine EasySeal™ Clamp
- Flat Seal Clamp
- 2" — 7" Sizes



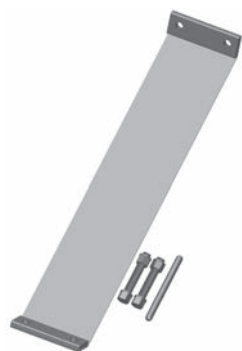
THE FL SERIES

- Original type of Seal Clamp
- Available in Aluminized & Stainless
- 2" — 6" Sizes



CLAMPS

CLAMPS



Flex Seal



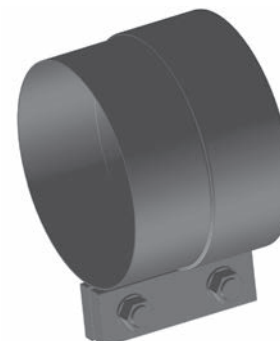
EasySeal™



AccuSeal™



TorcTite™



WFC Series

TYPE	WIDTH	2"	2-1/4"	2-1/2"	2-3/4"	3"	3-1/2"	4"	4-1/2"	5"	6"	7"
Flex Seal Alz.	3.375"	-	-	-	-	-	-	FL-4A	-	FL-5A	-	-
Flex Seal SS	3.375"	FL-2ss	FL-225ss	FL-25ss	FL-275ss	FL-3ss	FL-35ss	FL-4ss	FL-45ss	FL-5ss	FL-6ss	FL-7Pss
EasySeal SS	3"	EZ-2ss	EZ-225ss	EZ-25ss	EZ-275ss	EZ-3ss	EZ-35ss	EZ-4ss	EZ-45ss	EZ-5ss	EZ-6ss	EZ-7ss
AccuSeal Alz.	1.25"	AS-2A	-	AS-25A	-	AS-3A	AS-35A	AS-4A	-	AS-5A	-	-
AccuSeal Std. SS	1.25"	-	-	-	-	AS-3SS	AS-35SS	AS-4SS	-	AS-5SS	-	-
AccuSeal Polished SS	1.25"	-	-	-	-	-	-	AS-4SSP	-	AS-5SSP	AS-6SSP	AS-7SSP
DuraSeal 409SS	1.25"	-	-	-	-	-	-	DS-4SS	-	DS-5ss	-	-
TorcTite Alz.	3"	PF-2A	PF-225A	PF-25A	PF-275A	PF-3A	PF-35A	PF-4A	-	PF-5A	-	-
TorcTite Alz. Bulk	3"	-	-	-	-	-	PF-35ABK	PF-4ABK	-	PF-5ABK	PF-6ABK	-
TorcTite SS	3"	PF-2ss	PF-225ss	PF-25ss	PF-275ss	PF-3ss	PF-35ss	PF-4ss	-	PF-5ss	-	-
TorcTite SS Polished	3"	-	-	-	-	-	-	-	-	PF-5ssP	PF-6ssP	-
TorcTite SS Bulk	3"	-	-	-	-	-	PF-35ssBK	PF-4SSBK	-	PF-5SSBK	PF-6SSBK	-
WFC Series Alz.	3"	-	-	-	-	-	-	WFC-4A	-	WFC-5A	-	-
WFC Series Stainless	3"	-	-	-	-	WFC-3ss	WFC-35ss	WFC-4 ss	-	WFC-5ss	-	-
STC Series SS	3"	-	-	-	-	STC-3ss	STC-35ss	STC-4ss	-	STC-5ss	-	-
TorcTite Alz. Butt-Joint	3"	-	-	-	-	PF-3ABT	PF-35ABT	PF-4ABT	-	PF-5ABT	-	-

CLAMPS SADDLE CLAMPS



**ROUND BOLT
OPEN SADDLE**
(Economy)



**ROUND BOLT
CLOSED SINGLE
SADDLE**
(Good)



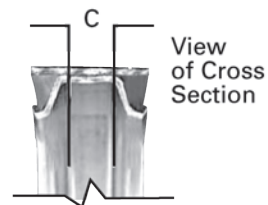
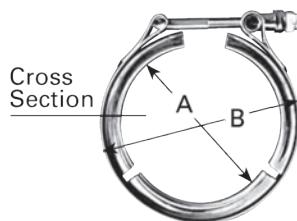
**ROUND BOLT
CLOSED DOUBLE
SADDLE**
(Better)



**FLAT BOLT
CLOSED DOUBLE
SADDLE**
(Best)

DIA.	ROUND BOLT OPEN SADDLE (PLAIN STEEL)	HD GUILLOTINE SINGLE EDGE SADDLE (ZINC PLATED)	ROUND BOLT HD WELD SADDLE (ZINC PLATED)	FLAT BOLT HD WELD SADDLE (ZINC PLATED)
1.5"	RO-15p	—	—	—
1.625"	RO-158p	—	—	—
1.75"	RO-175p	—	—	—
1.875"	RO-178p	—	—	—
2"	RO-2p	RB-2ZN	HD-2ZN	—
2.25"	RO-225p	RB-225ZN	—	—
2.5"	RO-25p	RB-25ZN	HD-25ZN	—
2.75"	RO-275p	RB-275ZN	—	—
3"	RO-3p	RB-3ZN	HD-3ZN	FB-3ZN
3.25"	RO-325p	RB-325ZN	—	—
3.5"	RO-35p	RB-35ZN	HD-35ZN	FB-35ZN
4"	RO-4p	RB-4ZN	HD-4ZN	FB-4ZN
4.5"	RO-45p	RB-45ZN	HD-45ZN	—
5"	RO-5p	RB-5ZN	HD-5ZN	FB-5ZN
6"	—	RB-6ZN	—	FB-6ZN

CLAMPS V-BAND CLAMPS



MANUFACTURER	P/N	TUBE DIA.	A	B	C	APPLICATION	BREEZE P/N
UNIVERSAL							
	VB-300C	2.50	3.18	3.74	0.20	Emissions CLAMP	VT10318C02
	VB-525D	5.00	5.25	5.81	0.21	Fits - FLARED CONNECTORS.	VT10525
AIRESEARCH							
	VB-461M	4.00	4.17	4.61	0.21	TEO-699	VT10461
	VB-525D	5.00	5.25	5.81	0.21	T-1899, TH08A64	VT10525
BLUEBIRD							
	VB-321C	2.75	2.80	3.20	0.26	6BT5.9L, 6BTA5.9L REPLACES BLUEBIRD #1334226	
	VB-321C	2.75	2.80	3.20	0.26	94-98 BLUEBIRD TC2000 SCHOOL BUS W/5.9L	
	VB-413C	4.00	4.13	4.69	0.26	92-98 8.3L TURBO CUMMINS ALL AMERICAN	VT10413
	VB-461D	4.00	4.13	4.69	0.40	REPLACES BLUEBIRD #1250646	VT10469
	VB-461D	4.00	4.13	4.69	0.40	BLUEBIRD ALL AMERICAN W/ CAT3116 /TURBO	VT10469
CATERPILLAR							
	VB-419C	3.50	3.63	4.19	0.40	3208T# IW5455	VB10419
	VB-461D	4.00	4.13	4.69	0.40	3208T # IW2431	VT10469
	VB-475C	4.00	4.19	4.75	0.40	3176T	VT10475
	VB-588C	5.00	5.32	5.88	0.40	3406, 3406B, 3176, T50 TURBO # 186917	VT10588-1
CUMMINS							
	VB-321C	2.75	2.80	3.20	0.26	6BT5.9L, 6BTA5.9L # 3903652	
	VB-351I	3.50	3.69	4.25	0.40	VT555, VT-555 MANIFOLD	
	VB-413C	4.00	4.13	4.69	0.26	8.3C CUMMINS # 3905216, for HX40 Turbo	VT10413

MANUFACTURER	P/N	TUBE DIA.	A	B	C	APPLICATION	BREEZE P/N
CUMMINS, Continued							
	VB-475C	4.00	4.19	4.75	0.40	L10 # 115774	VB10475
	VB-532	5.00	5.33	5.53	0.24	04-07 5.9L CUMMINS# 52121285AA	
	VB-588C	5.00	5.32	5.88	0.40	750, N, 88NT, NTC, VT, T50 TURBO # 186916	VTw10588-1
DETROIT DIESEL							
	VB-475D	4.00	4.13	4.75	0.16	8.2LT # 154977	
	VB-525D	5.00	5.25	5.81	0.21	8V-71T, 16V-71, 6V-92T, 8V-92, 8V-92T, 16V-92T # 513262	VT10525
	VB-588C	5.00	5.32	5.88	0.40	SERIES 60, 6-71T # 23506159	VT10588-1
DODGE							
	VB-450	4.00	4.53	4.73	0.26	DODGE 03-04 5.9L CUMMINS # A49-3535399	
	VB-532	5.00	5.33	5.53	0.24	04-07 5.9L CUMMINS# 52121285AA	
FORD							
	VB-321C	2.75	2.80	3.20	0.26	93-95 B600/700 W/5.9LT	
	VB-321C	2.75	2.80	3.20	0.26	REPLACES FORD #F3HZ5A281A	
	VB-351I	3.50	3.69	4.25	0.40	REPLACES FORD #E7HZ5A231C	
	VB-384F	3.00	3.84	4.01	0.23	FORD # F6TA-5A281-BA / 94-97 7.3 POWERSTROKE	
	VB-419C	3.50	3.63	4.19	0.40	REPLACES FORD #E2HZ5A231A	VB10419
	VB-419C	3.50	3.63	4.19	0.40	87-90 B600/700 SCHOOL BUS CF600/800 W/6.6LT	VB10419
	VB-419C	3.50	3.63	4.19	0.40	REPLACES FORD #E8HZ5A231E	VB10419
	VB-419F	3.50	3.63	4.19	0.40	FORD 6.6& 7.8 # E2HZ5A231A	VB10419
	VB-429F6	4.00	4.37	4.56	0.28	FORD 03-07 6.0L POWERSTROKE # 6C34-5A281-AA	

CLAMPS

V-BAND CLAMPS, CONTINUED

MANUFACTURER	P/N	TUBE DIA.	A	B	C	APPLICATION	BREEZE P/N
FORD, Continued							
	VB-429F7	4.00	4.38	4.55	0.23	FORD 99-03 7.3L POWERSTROKE # 4C24-5A281-HA	
	VB-475D	4.00	4.13	4.75	0.16	REPLACES FORD #EOHZ5A231C	VT10475
	VB-532C	5.00	5.33	5.53	0.24	04-07 5.9L CUMMINS# 52121285AA	
FREIGHTLINER							
	VB-390MB	3.00	3.90	-	-	FREIGHTLINER BUS MERCEDES 4 CYL. # 04-19184-001	
	VB-460MB	4.00	4.60	-	-	FREIGHTLINER BUS MERCEDES 6 CYL. # 04-39184-000	
	VB-588C	5.00	5.32	5.88	0.40	w/DD series 60, cat 3406 # 04-13828-0000	VT10588-1
	VB-588C	5.00	5.32	5.88	0.40	w/cummins vntc, vt diesel #01-14596-000	VT10588-1
	VB-588C	5.00	5.32	5.88	0.40	replaces freightliner #0114596000	VT10588-1
GM							
	VB-384G	3.00	3.84	4.01	0.21	00-06 DURAMAX # 15671559	
	VB-525D	5.00	5.25	5.81	0.21	All 71T & 92T detroit #513262	VT10525
	VB-525D	5.00	5.25	5.81	0.21	REPLACES GM #15647159	VT10525
INTERNATIONAL							
	VB-301I	3.00	3.28	3.84	0.40	T444E 1994-2000 INTERNATIONAL BUS	
	VB-302I	3.00	3.28	3.82	0.21	REPLACES INTERNATIONAL #2033978C1	
	VB-351I	3.50	3.69	4.25	0.40	86-89 SERIES S TRUCK/BUS W/ DT360	
	VB-351I	3.50	3.69	4.25	0.40	REPLACES INTERNATIONAL #893944R92	
	VB-350I	3.50	3.77	4.33	0.21	REPLACES INTERNATIONAL #338614C1	
	VB-350I	3.50	3.77	4.33	0.21	88-94 SERIES S TRUCK BUS W/DT466	

MANUFACTURER	P/N	TUBE DIA.	A	B	C	APPLICATION	BREEZE P/N
INTERNATIONAL, Continued							
	VB-475C	4.00	4.19	4.75	0.40	REPLACES INTERNATIONAL #893945R92	VT10475
	VB-475C	4.00	4.19	4.75	0.40	7.3L, DT-DTA 360, DT-DTA 466	VB10475
	VB-525D	5.00	5.25	5.81	0.21	W/DD 8V71, 8V92	VT10525
	VB-525D	5.00	5.25	5.81	0.21	REPLACES INTERNATIONAL #5132650	VT10525
	VB-525D	5.00	5.25	5.81	0.21	REPLACES INTERNATIONAL # 780067C91	VT10525
	VB-588C	5.00	5.32	5.88	0.40	REPLACES INTERNATIONAL #390226C91	VT10588-1
	VB-588C	5.00	5.32	5.88	0.40	INTERNATIONAL #1672105C91	VT10588-1
MACK							
	VB-461M	4.00	4.17	4.61	0.16	REPLACES MACK #48RU2341	VT10461
	VB-461M	4.00	4.17	4.61	0.16	DM/MR MODELS	VT10461
	VB-588C	5.00	5.32	5.88	0.40	REPLACES MACK #11ME241	VT10588-1
THOMAS							
	VB-419C	3.50	3.63	4.19	0.40	84-90 SAF-T-LINER MODELS W/3208T	VB10419
	VB-419C	3.50	3.63	4.19	0.40	REPLACES THOMAS #61240207	VB10419
	VB-461D	4.00	4.13	4.69	0.40	84-89 THOMAS SCHOOL BUS W/ 3208T	VT10469
	VB-461D	4.00	4.13	4.69	0.40	REPLACES THOMAS #61240208	VT10470
	VB-475D	4.00	4.19	4.75	0.21	89-93 W/8.2LT	VT10475
	VB-475D	4.00	4.19	4.75	0.21	REPLACES THOMAS #61240209	VT10475
VOLVO							
	VB-481V	4.00	4.375	4.81	0.43	Replaces Volvo 21021852	VT10481T
	VB-591V	5.00	5.50	5.91	0.43	Replaces Volvo 21021850	10769

PART NO. APPLICATION

VB-588OE T50 Turbo Housings, N14, ISX, 3406, C15, 60Series

This Is The More Economical 1 Pc OE Version



BRACKETS

4" FORD DIESEL TAIL PIPE HANGER



H-FTP1
Use with H-FLP1

HD MUFFLERS HANGERS



PART NO.	FITS BODY DIA.
QPM-8H	8"

MUFFLERS HANGERS

PART NO.	STYLE	FITS BODY DIA.
RMH-7834	B	7" - 8-3/4"
RMH-6	A	6"
RMH-7	A	7"
RMH-8	A	8"
RMH-85	A	8-1/2"
RMH-9	A	9"
RMH-10	A	10"
OMH-8511	A	8-1/4" x 11-1/2"
OMH-1015	A	10" x 15"
RMH-11	C	11"
RMH-12	A	12"



STYLE A



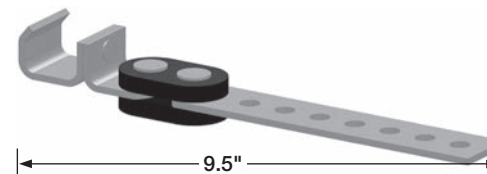
STYLE B



STYLE C

HANGER

For horizontal applications for use on exhaust pipes or mufflers. Use 2 per muffler. Clamps not included.



PART NO.
H-10
H-10C
H-17

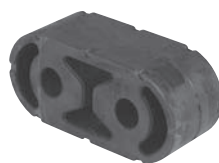
FREIGHTLINER HANGERS



H-FLM1
Muffler Hanger
Fits 11-1/8" Body Dia.
OE# 04-17998-001

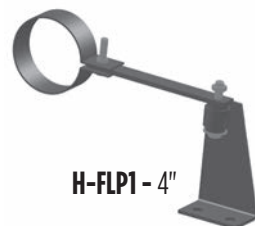


H-FLM2
Muffler Hanger
2004 & Newer
OE# A04-20919-000



RS-FRL1
Rubber Mount
2004 & Newer
OE# 04-19919

H-IHP1
Rubber Mount
2005 & Newer
International



H-FLP1 - 4"



H-FLP3 - 4"



H-FLP4 - 4" Spring Sus.



H-FLP5 - 4" Air Ride Sus.

IMAGE UNAVAILABLE
H-FML684

IMAGE UNAVAILABLE
H-FML8

IMAGE UNAVAILABLE
H-FML840

BRACKETS, CONTINUED

CHEVROLET/GMC OVERAXLE HANGER ASSEMBLY



H-BBP2
Frame Bracket



H-BBP1
U-Shaped Hanger

FORD MUFFLER HANGERS

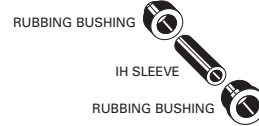


H-FTM2
Fits all Diesel Mufflers 1983 - UP
14" Round

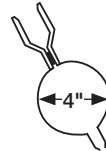
INTERNATIONAL BRACKETS (extra heavy duty reinforced)



H-IHP6
Overaxle Bracket
(not included in complete set)



H-IHP7
Complete Set
(tailpipe bracket, bushing, sleeve)



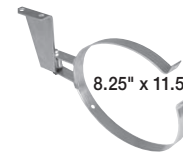
H-IHP3



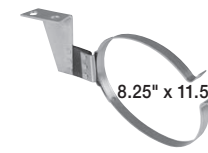
H-IHP4 (3")
H-IHP5 (4")
Pipe Hangers



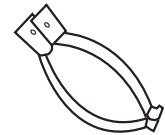
H-IHM6 (7.3L)
Muffler Hangers
(1986 - UP)



H-IHM1 (96 - UP)
T44E Eng. (Forward)
Rear Muffler Hanger



H-IHM2 (96 - UP)
T44E Eng. (Forward)
Front Muffler Hanger
(big hole)



H-IHM4



H-IHM6A

LENGTH	IHC P/N	STRAP LOCATION
4-1/2	1660539C91	top row of holes
5	1660549C91	bottom row of holes



H-IHP7
AMTRAN T444E/DT466
Rear Engine 4"



H-USE1



H-USE2

PART NO.	INTERNATIONAL NO.
H-USE1	482173C1
H-USE2	1675835C1

BRACKETS, CONTINUED

SWIVEL HANGERS

P/N	TYPE	LENGTH	BOX QTY
H-10C	REG. CLOSED	9½"	1
H-17	LONG CLOSED	17¼"	1
H-10	REG. OPEN	9½"	1



H-10C
H-17



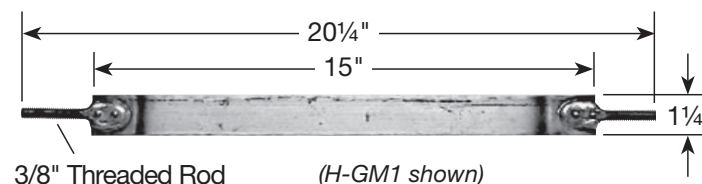
H-10

CHEVROLET/GMC FRAME BRACKET



H-BBT5
1989 & NEWER 366 GAS ENG.

BLUEBIRD/CHEVROLET/GMC DIESEL MUFFLER STRAP

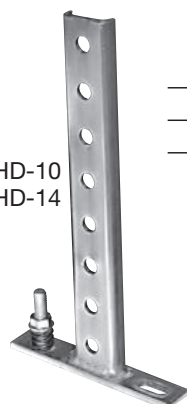


P/N	OVERALL LENGTH	ROD SIZE	STRAP THICKNESS
H-GM1	20.25"	3/8"	1.25"
H-BBM2	27"	3/8"	1.25"
H-BBM3	31"	3/8"	1.25"
H-BBM4	26"	3/8"	1.25"

UNIVERSAL HEAVY DUTY HANGER AND BRACKET



H-12



HD-10
HD-14

P/N	LENGTH	PIPE DIA
HD-10	10"	3"-4"
HD-14	14"	
HD-11	10"	
H-12	12"	



HD-11

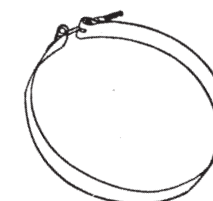
BLUEBIRD HANGERS



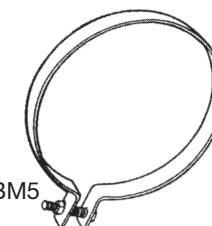
H-BBP3



H-BBP4



H-BBM1

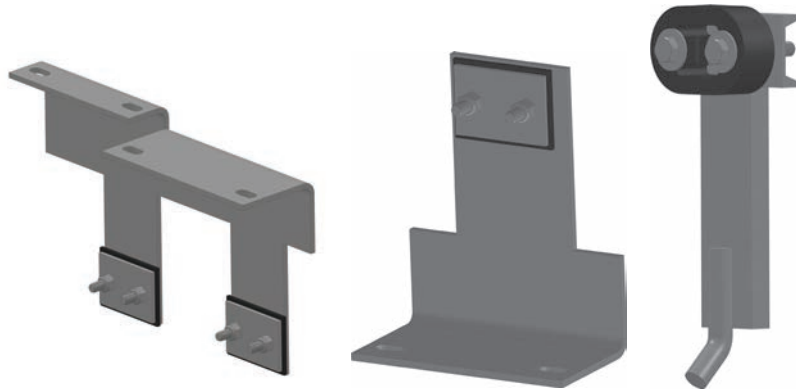


H-BBM5

P/N	LENGTH	U-BOLT
H-BBP3	5 "	4" & 5"
H-BBP4	9¼"	4" & 5"
H-BBM1	8½"	Diameter
H-BBM5	10 "	Diameter

BRACKETS, CONTINUED

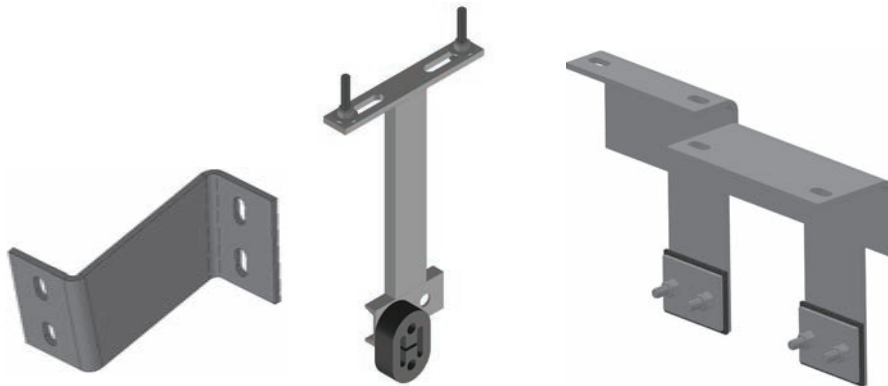
BLUEBIRD BRACKETS



H-BBM1786

H-BBM131
4" or 5" U-Bolts
5-5/8" Length

H-BBM3048
compares to
0063048

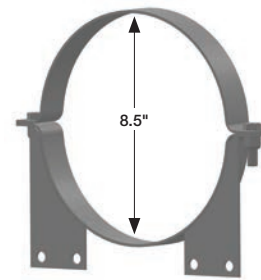


H-BBP8090

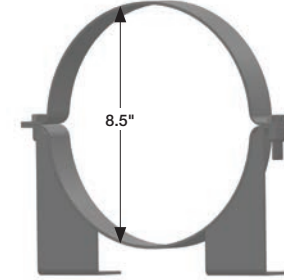
H-BBP4

H-BBP1786

THOMAS BRACKETS



H-THM0514
TRear Engine



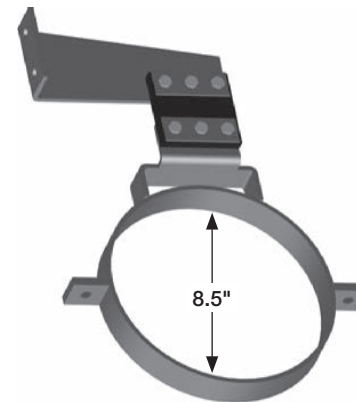
H-THM0881
Rear Engine

**IMAGE
UNAVAILABLE**

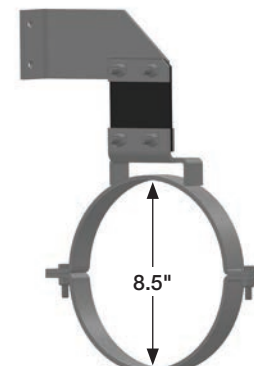
H-THM11
Rear Engine,
11" Diamenter

**IMAGE
UNAVAILABLE**

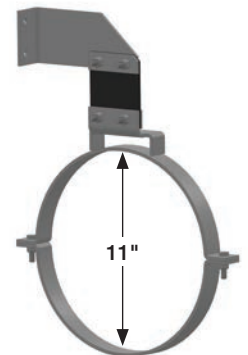
H-THM2
Front Engine,
11" Diamenter



H-THM1



H-TMH1249
TH697



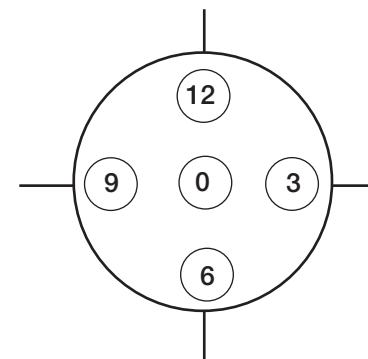
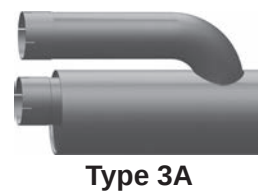
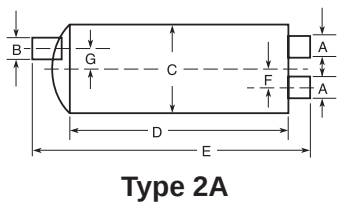
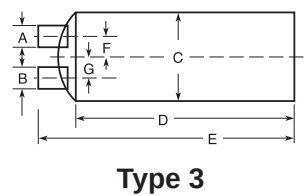
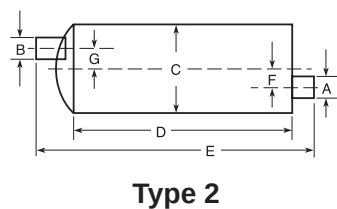
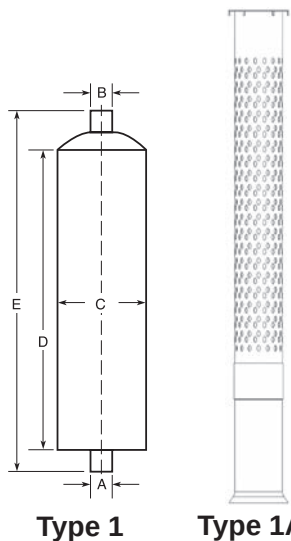
H-TMH1250

MUFFLERS & CONVERTERS

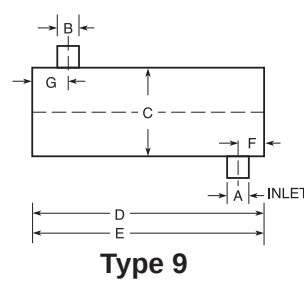
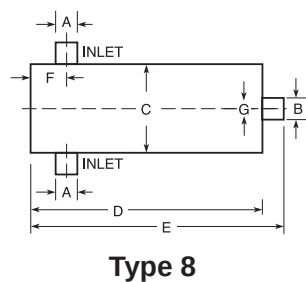
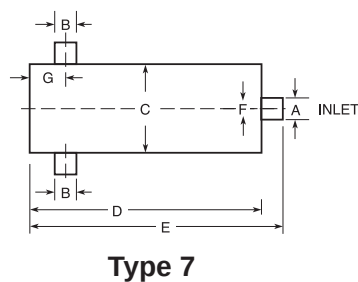
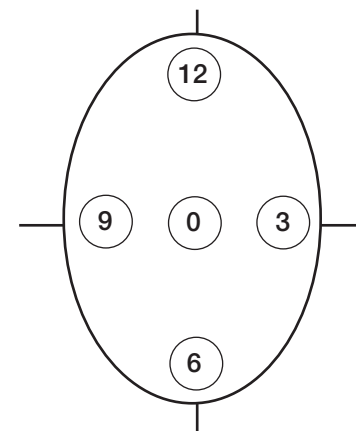
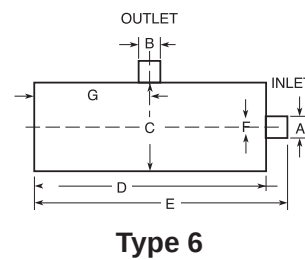
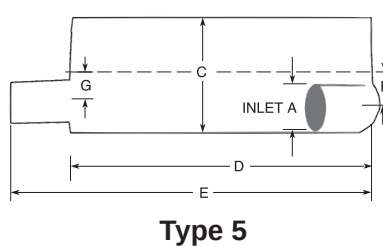
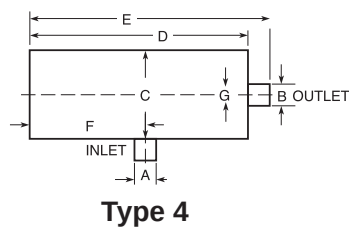


MUFFLERS

MUFFLER TYPES



NOTE: All clock positions viewed from inlet end of muffler.



Note: Mufflers available in Stainless Steel, Call for details

MUFFLERS

MUFFLER SPECS

TYPE 1 – RESONATORS

Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	Fits
1	M-556	3"	3"	9"	11.5"	16"	-	-	-
1	M-150	3.5"	3.5"	9"	14"	19.75"	-	-	-
1	M-144	4"	4"	9"	10"	16.5"	-	-	-
1	M-062	5"	5"	11"	55"	61.5"	-	-	Peterbilt 07 Newer
1	M-145	5"	5"	9"	10"	16.5"	-	-	-

TYPE 1A – Internal Mufflers

Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	Fits
1A	IM-418	4"	4"	4"		18"	-	-	Inside a Stack or Pipe
1A	IM-518	5"	5"	5"		18"	-	-	Inside a Stack or Pipe
1A	IM-560	5"	5"	5"		60"	-	-	Inside a Stack or Pipe
1A	IM-572	5"	5"	5"		72"	-	-	Inside a Stack or Pipe
1A	IM-672	6"	6"	6"		72"	-	-	Inside a Stack or Pipe
1A	IM-772	7"	7"	7"		72"	-	-	Inside a Stack or Pipe

TYPE 1 – END IN / END OUT CENTERED

Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	Fits
1	M-187	3"	3"	6.1"	21"	30"	-	-	-
1	M-878	3"	4"	11"	36"	41.75"	-	-	Freightliner SB
1	M-110	3.5"	4"	8.5"	29.5"	36"	-	-	Thomas SB
1	M-188	3.5"	3.5"	7.1"	30"	38"	-	-	-
1	D5M	4"	5"	8"	15"	21"	-	-	Powerflow
1	M-079	4"	4"	10"	36"	43"	-	-	Bluebird SB
1	M-087	4"	4"	11"	36"	43"	-	-	Freightliner SB
1	M-127	4"	4"	8.5"	34.5"	41"	-	-	Mack R Model
1	M-131	4"	4"	9"	44.5"	51"	-	-	-
1	M-444	4"	4"	10"	44.5"	51"	-	-	-

MUFFLERS

MUFFLER SPECS, CONTINUED

TYPE 1 – END IN / END OUT CENTERED, continued

1	M-630	4"	4"	6"	24"	30"	-	-	-
1	M-824	4"	4"	8"	15"	21.5"	-	-	Powerflow
1	QPM-639-4	4"	5"	8"	29"	36"	-	-	Fuel Saver
1	QPM-639-5	4"	5"	6"	29"	35"	-	-	Fuel Saver
Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	Fits
1	HF-1051	5"	5"	10"	44.5"	51"	-	-	Fuel Saver
1	M-062	5"	5"	11"	55"	61.5"	-	-	Peterbilt 387 06 & Older Muffler
1	M-0824	5"	5"	11"	55"	61.5"	-	-	Peterbilt 387 07& Newer Resonator
1	M-102	5"	5"	9"	44.5"	51"	-	-	Better Quality
1	M-130	5"	5"	10"	44.5"	51"	-	-	Better Quality
1	M-132	5"	5"	9"	44.5"	51"	-	-	Economy
1	M-136	5"	5"	10"	36"	41.6"	-	-	Great for Dump Trucks
1	M-1774	5"	5"	8"	55"	61"	-	-	Freightliner
1	M-196	5"	5"	10"	44.5"	51"	-	-	Cummins Electronic
1	M-465	5"	5"	10.1"	44.5"	51"	-	-	Economy
1	M-533	5"OD	5"	9"	25"	33"	-	-	Pete 379 Standard Hood
1	M-533-0	5"OD	5"	9"	25"	33"	-	-	Less Restrictive for High HP Engines
1	M-557	5"OD	5"	9"	34"	40.5"	-	-	Pete 379 Extended Hood
1	M-557-0	5"OD	5"	9"	34"	40.5"	-	-	Less Restrictive for High HP Engines
1	M-560	5"	5"	10"	60"	66"	-	-	-
1	M-595	5"	5"	9"	20"	26.5"	-	-	-
1	M-656	5"	6"	10"	44.5"	51"	-	-	-
1	QPM-851	5"	5"	8"	40"	51"	-	-	Fuel Saver
1	M-1236	5"	5"	12"	36"	41"	-	-	-
1	M-1436	5"	5"	14"	36"	41"	-	-	-
1	M-651	6"	6"	10"	44.5"	51"	-	-	-
1	M-844	8"	8"	10"	44.5"	51"	-	-	-

MUFFLERS

MUFFLER SPECS, CONTINUED

TYPE 2 – END IN / END OUT OFFSET ENDS

Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	Fits
2	M-518	2.5"	2.5"	6"	26"	33"	1.5"/12	3.6"/6	
2	M-624	2.75"	3"	8.5"	30.25"	36.25"	3"/12	2.75"/6	Chevrolet/GMC SB
2	M-070	3"	4"	11"	36.25"	42"	3"/6	4"/12	Freightliner SB
2	M-1136	3"	4"	11"	36"	42"	2.5"/12	2.5"/6	-
2	M-139	3"	3"	8.5"	31.2"	36.2"	2"/12	2"/6	-
2	M-106	3.5"	3.5"	8.25" x 11.5"	26"	32"	3"/12	3"/6	-
2	M-512	3.5"	4"	8.25" x 11.5"	27"	33"	2.5"/12	2.5"/6	IH
2	M-536	3.5"	4"	8.25" x 11.5"	32"	36.5"	2.5"/12	2.5"/6	International SB
2	M-879	3.5"	4"	11"	36"	42"	3"/0	0/12	Freightliner SB
2	M-125	4"	4"	10" X 15"	34"	40.5"	4.25"/6	4.25"/12	Thomas SB
2	M-153	4"	4"	8.25" x 11.5"	27"	33"	2.5"/12	2.5"/6	-
2	M-502	4"	4"	11"	36"	41.2"	2.5"/12	2.5"/6	Freightliner/Ford SB
2	M-529	4"	4"	11"	36"	42.2"	2.5"/12	2.5"/6	Ford SB
2	M-529-CI	4"	4"	11"	36"	42.2"	0	2.5"/6	Centered Inlet
2	M-753	4"	5"	10.5" X 15.3"	44"	50.5"	3.1"/6	3.1"/12	-
2	M-117	5"	5"	10" x 15"	36"	42"	4"/12	4"/6	-
2	M-147	5"	5"	10" X 15"	27"	33"	3.3"/12	3.3"/6	Thomas SB
2	M-4025	5"	5"	11"	36"	41"	2.5"/12	2.5"/6	Ford
2	M-180	6"	6"	10" x 15"	32"	42.5"	3.6"/12	3.6"/6	-

TYPE 2A – DUAL END IN / SINGLE END OUT

Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	Fits
2A	M-722	2.5"-2.5" FLARE	3"OD	8.7"	30"	39"	1.75"/1:30/10:30	2"/6	Bluebird/GMC SB
2A	M-185	2.75"-2.75"	4"	8.25" x 11.5"	27"	32.75"	4"/12-4"/6	2.5"/6	International SB
2A	M-622	2/2.5"	FLANGE	8.5"	29.5"	37.5"	2.5"/12	2.5"/3-3	Bluebird/GMC SB

MUFFLERS

MUFFLER SPECS, CONTINUED

TYPE 3 & 3A - IN AND OUT SAME END

Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	H Ctr. To Ctr.
3	M-152	3"	4"	10" X 15"	30" 3	34"	-	4"/6	-
3	M-755	3.5"	4" OD	8.25" x 11.5"	32"	38.4"	2.5"/12	2.5"6	-
3	M-033	4"	5"	11"	30"	33.5'	3"/12	3"/12	5"
3	M-115	4"	4"	10" X 15"	26" 2	29.2"	4"/12	4"/6	-
3	M-124	4"	5"	12" X 15"	30" 3	34"	4"/12	4"/6	-
3	M-116	5"	5"	10" X 15"	36"	40"	4"/12	4"/6	-
3	M-121	5"	5"	10" x 15"	26"	29"	3"/12	3"/6	6"
3	M-121L	5"	5"	10" x 15"	44"	48"	3"/12	3"/6	6"
3	M-121L6	5"	6"	10" x 15"	44"	48"	3"/12	3"/6	6"
3	M-899	5"	5"	12"	35"	39"	-	-	-
3A	M-922	5"	5"	9"	22"	25"	-	-	7.5"
3A	M-922-6	6"	6"	9"	22"	25"	-	-	7.5"

TYPE 4 - SIDE IN / END OUT

Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	Fits
4	M-034	4"	4"	11"	36"	40"	4.5"/3	2.5"/12	Bluebird/GMC SB
4	M-149	4"	3.8"OD	10" x 15"	16"	20.1"	3.1"/12	4.4"/12	Mack DM
4	M-542	4"	5"	10" X 15"	21"	25"	3.1"/12	4.4"/12	-
4	M-625	4"	4"	11"	42"	45"	4"/12	0/0	Bluebird SB
4	M-626	4"	4"	11"	33.5"	36.5"	4"/12	0/0	Thomas SB
4	M-724	4"	4"	11"	36"	39"	4.3"/9	2.5"/12	-
4	M-751	4"	5"	10" x 15"	27"	30"	22.4"/5:30	3.6"/12	DOT / IH
4	M-771	4"	5"	9"	44.5"	48"	3.8"/6	0"/0	-
4	M-526	5"	5"	10"	44.5"	48.25"	5.5"/6	-	GMC Brigadier & Astro
4	M-757	5"	5"	12.3" X 15.2"	27"	30"	22.4"/5:30	3.6"/11	DOT / IH

MUFFLERS

MUFFLER SPECS, CONTINUED

TYPE 6 - END IN /SIDE OUT

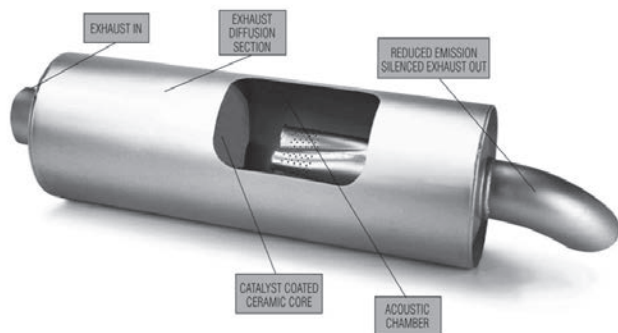
Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	Fits
6	M-537	3.5"	4"	8.25" x 11.5"	32"	35"	2.5"/6	20"/3:30	IH DT 466 Horizontal Outlet
6	M-545	3.5"	4" OD	8.25" x 11.5"	32"	34.9"	2.5"/12	20.2"/3:30	DOT / IH
6	M-548	3.5"	4"	8.25" x 11.5"	32"	34.9"	2.5"/12	24.7"/3:30	DOT / IH
6	M-527C1	3.5"	4" OD	8.25" x 11.5"	32"	35.5"	2.5"/6	3.5"/9:00	DOT / IH
6	M-777	3.5"	4" OD	8.25" x 11.5"	32"	34.9"	2.5"/12	24.7"/3:30	DOT / IH
6	M-530	4"	4"	11.1"	36"	39"	1.5"/6	28.5"/12	Ford
4	M-130SD	5"	5"	10"	44.5"	48.25"	-	14.5"/12	-
6	M-503	5"	5"	10" x 15"	36"	39"	4.0"/12	28.5"/6	Ford
6	M-648	5"	5"	11"	48"	51"	4.0"/6	40.5"/12	-
6	M-672	5"	5"	11"	36"	39"	2.7"/6	28.5"/12	Ford
6	M-010	5" OD	5" OD	12"	36"	39"	-	15"/12	-
6	M-158A	5"	5"	13"	42"	45"	-	28.5"/12	04-22804-000

TYPE 7 - END IN / DUAL SIDE OUT

Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	Fits
7	M-599	5"	5"/5"	9"	30"	34"	CTR	22.5"/12&6	-
7	M-7185	5"	5"/5"	8" X 20"	29"	32"	CTR	23"/9&3	Freightliner Columbia

Type	Part No.	A Inlet Dia. I.D.	B Outlet Dia I.D.	C Body Dia.	D Body Length	E Overall Length	F Inlet Offset/ Clock Position	G Outlet Offset/ Clock Position	Fits
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CONVERTERS CATALYTIC CONVERTER MUFFLERS



Certified to Meet EPA Requirements
Grand Rock converter mufflers are engineered to enable mid-range engines to meet emission requirements of the EPA's Diesel Emissions Standards. The catalytic core within the muffler reduces gaseous hydrocarbons, carbon monoxide, and particulates, while at the same time reducing exhaust noise to 67-72 dBA at 50 feet per the EPA drive-by noise test (levels will vary depending on system configuration).

- Same package size as equivalent mufflers
- Only 10 to 15 lbs. heavier than equivalent mufflers
- 409 Stainless Steel
- Internal design for even exhaust flow distribution

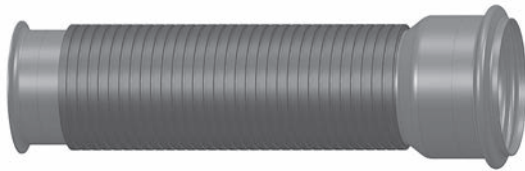
PART NO.	STYLE	INLET ID	OUTLET ID	INLET POSITION	OUTLET POSITION	INLET OFFSET	OUTLET OFFSET	CROSS SECTION	SHELL LENGTH	OVERALL LENGTH
M-395CT	1	4"	4"	0	0	0	0	10"	43"	50.5"
Style/Type Description - CENTER TO CENTER										
Application/Description - 1988 & Newer Bluebird School Bus with 5.9L B Series Cummins Engine										
M-355CT	1	4"	4"	0	0	0	0	11"	36"	41"
Style/Type Description - CENTER TO CENTER										
Application/Description - 1995 & Newer Ford School Bus with 5.9L B Series Cummins Engine 1994 & Newer GMC School Bus with 3116 & 3126 Caterpillar Engine										
M-580CT	2	3.5"	4"	6	12	2.75"	2.75"	8.25" x 11.5"	29.5"	36.5"
Style/Type Description - OFFSET TO OFFSET										
Application/Description - 2005 & Newer CE International with DT466 Engine										
M-675CT	1	3"	4"	0	0	0	0	8"	28"	34"
Style/Type Description - CENTER TO CENTER										
Application/Description - 1998 & Newer Freightliner School Bus with 5.9L B Series Cummins Engine										
M-213CT	1	4"	4"	0	0	0	0	10"	43"	50.5"
Style/Type Description - CENTER TO CENTER										
Application/Description - 2001 & Newer Bluebird School Bus with Caterpillar C-7 3126 Engine										
M-578CT	2	3.5"	4"	6	12	2.75"	2.75"	8.25" x 11"	29.5"	36.5"
Style/Type Description - OFFSET TO OFFSET										
Application/Description - 1989 & Newer International School Bus with DT360										
M-647CT	2	4"	4"	12	6	2.5"	2.5"	11"	32"	38"
Style/Type Description - OFFSET TO OFFSET										
Application/Description - 1992 & Newer Ford School Bus with Cummins C Series Engine, International School Bus with 3126 Caterpillar Engine										
M-657CT	4	4"	4"	12	0	4"	0	11"	42"	45"
Style/Type Description - OFFSET TO OFFSET										
Application/Description - 1994 & Newer Bluebird & Thomas School Bus with Caterpillar 3116 Engine										
M-581CT	2	4"	4"	12	6	2.5"	2.5"	11"	36"	44"
Style/Type Description - OFFSET TO OFFSET										
Application/Description - 1996 & Newer Ford School Bus with 3116 Caterpillar Engine & Cummins B Series Engine, International School Bus with 3116 Caterpillar Engine										
M-582CT	4A	3.5"	4"	12/90° elbow	3	2.5"	2.75"	8.25" x 11"	32"	38"
Style/Type Description - SIDE INLET, END OUTLET										
Application/Description - 2004 & Newer International School Bus with VT365 Rear Engine										

EMISSION SOLUTIONS & FLEX HOSE

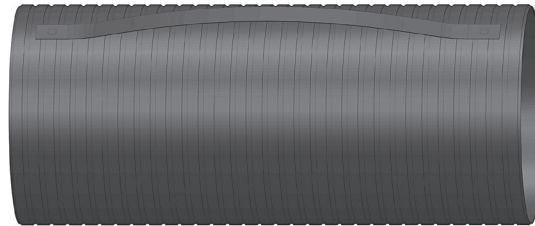


EMISSIONS SOLUTIONS

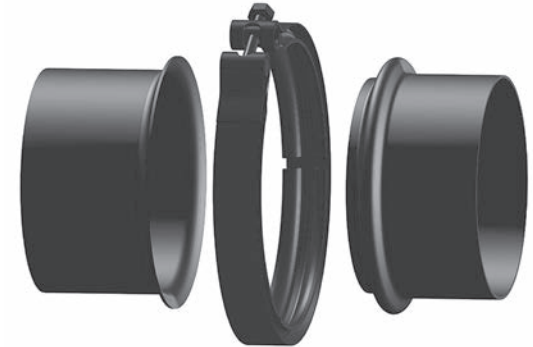
EMISSION SOLUTIONS



- Replacement for OE 2007+ bellows type section. All Stainless steel construction. Twist and stretch movement out performs the OE!



- A NEW generation of multiply stainless flex that gives you LEAK FREE performance with torsional movement! Stainless flex out performs bellows.

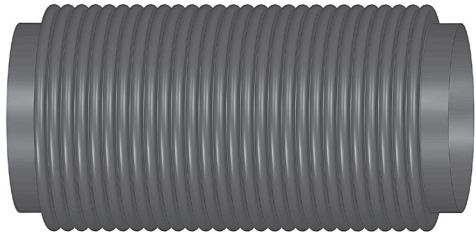


- Marmon flanges are available for 2.5" thru 5" diameter. Parts can be welded to any part we have for a 100% leak free joint. 2007 + emission exhaust standard.

EMISSIONS SOLUTIONS

BELLOWS, UNIVERSAL HEAT SHIELDS & APU

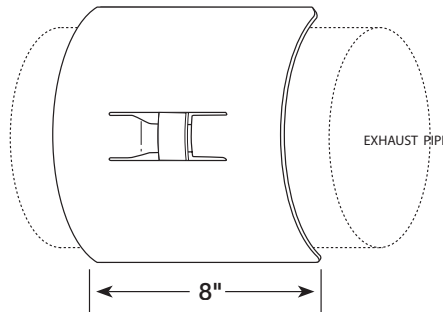
BELLOWS



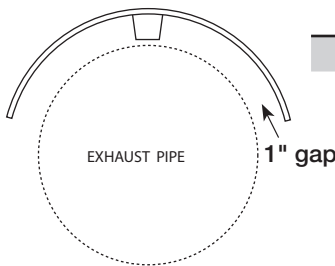
Bellows:

- Single Ply 304 Stainless
- Diameter, length, and part no. can be found in the flex hose section on page 77

UNIVERSAL HEAT SHIELDS



- Keep wiring, air, and hydraulic lines away from hot exhaust pipes
- Works on 3"- 6" diameter pipes

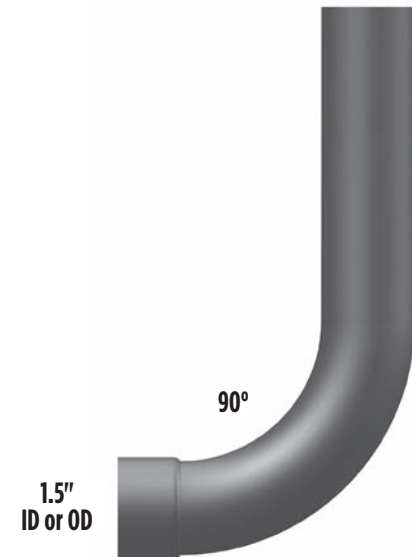


PART#	QTY.
UHS	1 Per Box
UHS-B	10 Per Box

UNIVERSAL HEAT SHIELDS:

- Heat shield for exhaust pipe
- Protect wires, air, oil or fuel lines from extreme heat
- Universal fit, any diameter pipe
- Held on with strap clamp (included)

APU



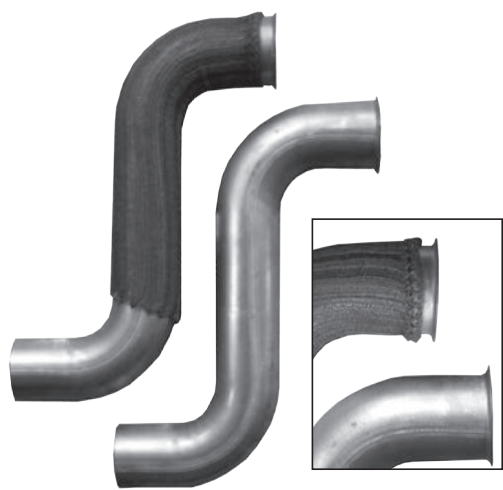
APU or auxiliary heaters on your truck or bus and need to get the exhaust out? We bend 1.5" diameter for these exhaust pipes. Call or send prints.

EMISSIONS SOLUTIONS

HEAT SLEEVES & WRAPS

Either the heat sleeve or the heat wrap will reduce the outside temperature of a bare pipe by 300° F to 400° F

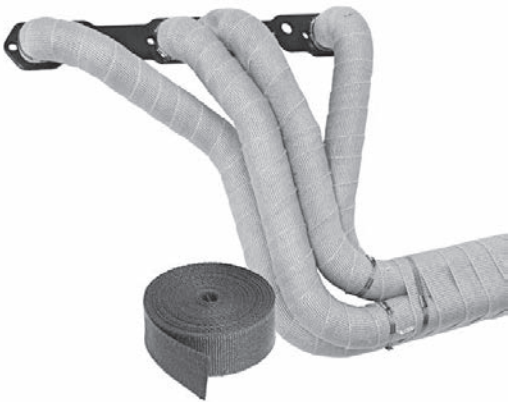
HEAT SLEEVES



Slips onto 3" to 5" dia. pipe

PART NO.	LENGTH
HS-12	12"
HS-18	18"
HS-24	24"

HEAT WRAPS



Simple 2" wide roll, easy to install on any pipe

PART NO.	LENGTH
Hw-2600	2" x 50' (600") roll

HEAT SLEEVE & WRAP CLAMPS



Wrap clamps make installation easy!
No tools needed.

PART NO.	LENGTH
HC-18ss	2 pc of 18" long clamp
HC-18SSB	12 pc of 18" long clamp

EMISSIONS SOLUTIONS

FLEX HOSE, MARMON FLANGES & FLARES

FLEX HOSE

NEW generation of leak resistant stainless flex that works well on the 2007+ engines. Has both great torsional and length movement. Diameter and length part numbers are on pgs. 78 & 79 in the flex hose section.



TYPE SSS (33% THICKER) 4 PLY
• SPECIAL INTERLOCKED PROFILE •

MARON FLANGE & FLARES

These are used to join parts together for leakproof and serviceable connections with a VBand Clamp all 304SS.



TUBE DIAMETER	FLARE PART NO.	V BAND CLAMP PART NO.	FLANGE PART NO.
2.5"	39659-I	VB-300c	42315-I
4"	39660-I	vb-475c	41967-I
5"	39392-I	vb-588c	41968-I

EMISSIONS SOLUTIONS

CERAMIC LINES AND/OR COATED

CL - Ceramic Lined

We can add ceramic lining to a CHROME pipe. Use our high quality chrome parts on your 2007+ truck.

CC - Ceramic Coated

Coats the exterior of any part for a true Thermal Barrier. Keeps hot temperatures INSIDE the pipe to help with emissions and keeps cab floors, wires, & hoses cool

CL/CC - Ceramic Lined AND Ceramic Coated

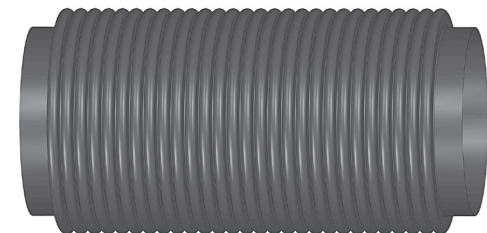
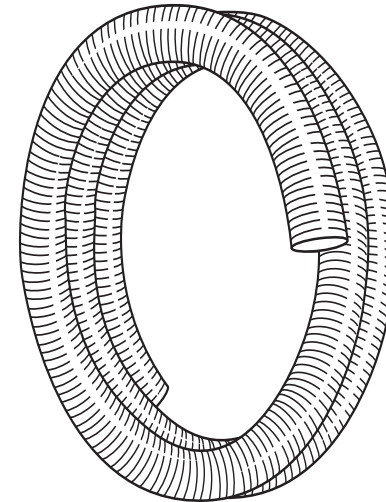
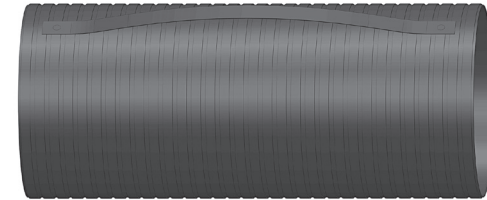
Line and Coat pipe for the Ultimate in Thermal Barrier.

Call for Price and Availability, plus more details

FLEX HOSE

FLEX HOSE OPTIONS

- Premium Triple S Stainless Steel
(304 non magnetic) 4 PLY (BEST)
- 304 Stainless Conventional Flex (non magnetic)
(BETTER)
- 409 Stainless Conventional Flex (magnetic) (GOOD)
- Galvanized Conventional Flex
 - .018 Thick Strip (magnetic) (GOOD)
- Galvanized Conventional Flex
 - .015 Thick Strip (magnetic) (GOOD)
- Bellows, Single Ply
 - 304 Stainless (non magnetic) will not twist



FLEX HOSE 4" & 5" STAINLESS FLEX USER GUIDE

RATING = GOOD (Type 409 Stainless - Magnetic)

- Better corrosion resistance than Galvanized or Aluminized Flex
- Flexibility = STIFF, can be cut and trimmed

PART NO. 4" DIA/LENGTH

S49-4300	4" x 25' Roll
S49-4120	4" x 10' Roll
S49-412	4" x 12" Precut
S49-418	4" x 18" Precut
S49-424	4" x 24" Precut
S49-436	4" x 36" Precut

PART NO. 5" DIA/LENGTH

S49-5300	5" x 25' Roll
S49-5120	5" x 10' Roll
S49-512	5" x 12" Precut
S49-518	5" x 18" Precut
S49-524	5" x 24" Precut
S49-536	5" x 36" Precut



RATING = BETTER (Type 304 Stainless - Non-Magnetic)

- Better quality stainless flex material — WILL NOT RUST OR CORRODE
- Flexibility on 10' & 25' Rolls = STIFF (typical), can be cut and trimmed
- Flexibility on 12" thru 48" Precuts = VERY FLEXIBLE, can be cut and trimmed

PART NO. 4" DIA/LENGTH

SF-4300	4" x 25' Roll
SF-4120	4" x 10' Roll
SF-412	4" x 12" Precut
SF-418	4" x 18" Precut
SF-424	4" x 24" Precut
SF-436	4" x 36" Precut
SF-448	4" x 48" Precut

PART NO. 5" DIA/LENGTH

SF-5300	5" x 25' Roll
SF-5120	5" x 10' Roll
SF-512	5" x 12" Precut
SF-518	5" x 18" Precut
SF-524	5" x 24" Precut
SF-536	5" x 36" Precut
SF-548	5" x 48" Precut



(Conventional Interlocked Profile)

50

RATING = BEST (OE Type SSS 304 Stainless - Non-Magnetic)

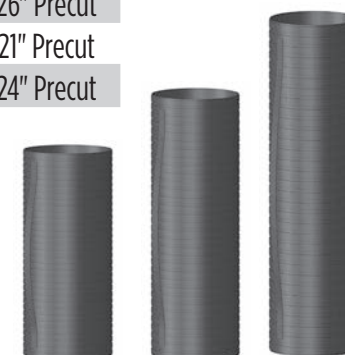
- Best quality stainless flex type — WILL NOT RUST OR CORRODE
- Precuts Only - Featuring EXTENSION GAUGE STRAP & Individually Boxed!
- SUPER FLEXIBLE & Torsional Movement, DO NOT cut or trim

PART NO. 4" DIA/LENGTH

WFF-412	4" x 12" Precut
WFF-415	4" x 15" Precut
WFF-418	4" x 18" Precut
WFF-424	4" x 24" Precut

PART NO. 5" DIA/LENGTH

WFF-512	5" x 12" Precut
WFF-515	5" x 15" Precut
WFF-518	5" x 26" Precut
WFF-521	5" x 21" Precut
WFF-524	5" x 24" Precut

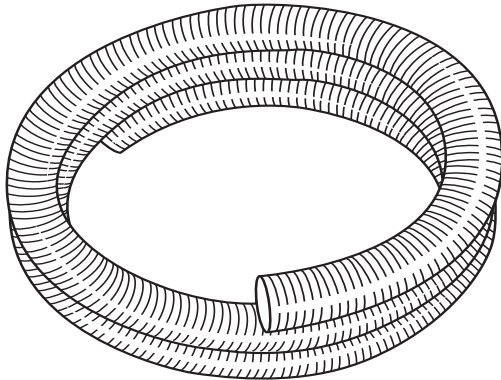


TYPE SSS (33% THICKER)

• SPECIAL INTERLOCKED PROFILE •

FLEX HOSE

FLEXIBLE METAL HOSE



10' and 25' COILS

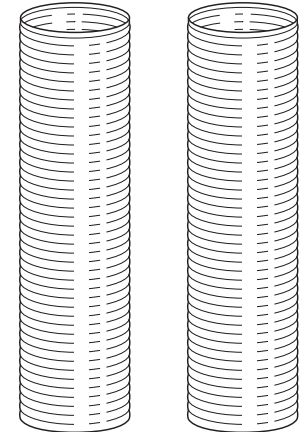
DIA.	STD. DUTY GALVANIZED 25' ROLL	STD. DUTY GALVANIZED 10' ROLL	HEAVY DUTY GALVANIZED 25' ROLL	HEAVY DUTY 304 STAINLESS 10' ROLL	HEAVY DUTY 304 STAINLESS 25' ROLL
1.5"	—	—	—	—	SF-15300
2"	G15-2300	—	—	—	—
2.25"	G15-225300	—	—	—	—
2.5"	G15-25300	G15-25120	—	—	SF-25300
2.75"	G15-275300	—	—	—	SF-275300
3"	G15-3300	G15-3120	—	SF-3120	SF-3300
3.5"	G15-35300	G15-35120	—	SF-35120	SF-35300
4"	G15-4300	G15-4120	G18-4300	SF-4120	SF-4300
5"	G15-5300	G15-5120	G18-5300	SF-5120	SF-5300
6"	—	G15-6120	—	SF-6120	SF-6300
7"	—	—	—	SF-7120	—

PRECUT LENGTHS

Various Pre-Cut Lengths:

- Deburred Ends
- Save the Time and Hassle of Cutting
- Easier to Inventory and Handle
- Easier to Display

NOTE: All Grand Rock Flex is measured in *RELAXED* lengths.
• Compression may occur during handling and transit



DIA.	LENGTH	GALVANIZED	409 STAINLESS	HEAVY DUTY 304 STAINLESS
3"	12"	G15-312	—	SF-312
3"	18"	G15-318	—	SF-318
3"	24"	G15-324	—	SF-324
3"	36"	G15-336	—	SF-336
3.5"	12"	G15-3512	—	—
3.5"	18"	G15-3518	—	SF-3518
3.5"	24"	G15-3524	—	SF-3524
3.5"	36"	G15-3536	—	SF-3536
4"	8"	—	—	SF-408
4"	12"	G15-412	S49-412	SF-412
4"	18"	G15-418	S49-418	SF-418
4"	24"	G15-424	S49-424	SF-424
4"	36"	G15-436	S49-436	SF-436
4"	48"	G15-448	—	SF-448
5"	12"	G15-512	S49-512	SF-512
5"	18"	G15-518	S49-518	SF-518
5"	24"	G15-524	S49-524	SF-524
5"	36"	G15-536	S49-536	SF-536
5"	48"	G15-548	—	SF-548

ACCESSORIES



NEW UNIVERSAL SIDE EXIT PIPES

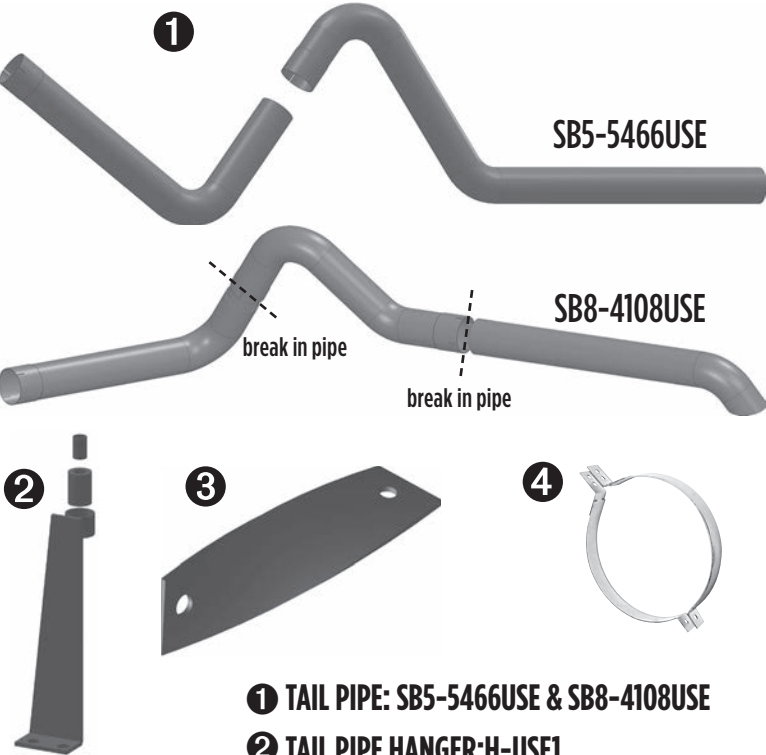
	GRAND ROCK PART NO.	OE PART NO.	DESCRIPTION	2 PIECE PIPE 2nd PART NEEDED
	SB6-7844BB	1537844	BLUEBIRD TC 2000 LEFT SIDE EXIT TAILPIPE 174" WB	
IMAGE UNAVAILABLE	SB7-5665BB	1535665	BLUEBIRD TC 2000 LEFT SIDE EXIT TAILPIPE 174" WB	
	SB7-9618IH	3589618C2	95 TO 2000 IH 3900 FE/FC FORWARD CONTROL DT466 OVER DRIVESHAFT LEFT SIDE EXIT	

ACCESSORIES

SIDE EXIT TAILPIPE & BELLOWS PIPE

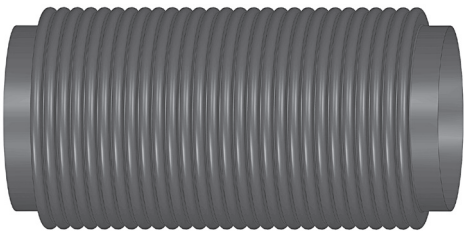
UNIVERSAL SIDE EXIT TAILPIPE KIT

Right Hand Muffler with 4" I.D. Outlet - Over Drive Shaft -
Exit on Left Hand Side of Bus in Front of Rear Wheels



- ① TAIL PIPE: SB5-5466USE & SB8-4108USE
- ② TAIL PIPE HANGER: H-USE1
- ③ TAIL PIPE BRACKET: H-USE2
- ④ TAIL PIPE CLAMP: H-IHP5

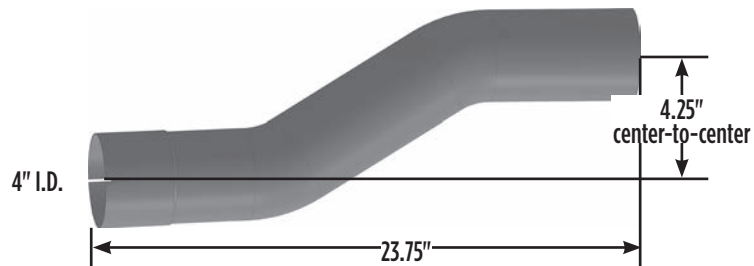
UNIVERSAL STAINLESS STEEL BELLOWS PIPE



Part No.	Diameter	Length
GBS-312	3"	10"
GBS-3512	3-1/2"	10"
GBS-412	4"	10"
GBS-512	5"	10"

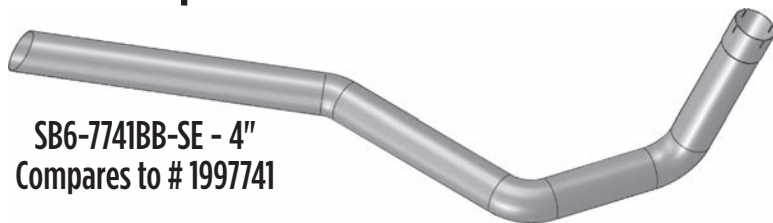
ACCESSORIES CONVENTIONAL & FLATNOSE TAILPIPE, UNIVERSAL SIDE EXIT PIPES

International Conventional & Flatnose Tailpipe Options

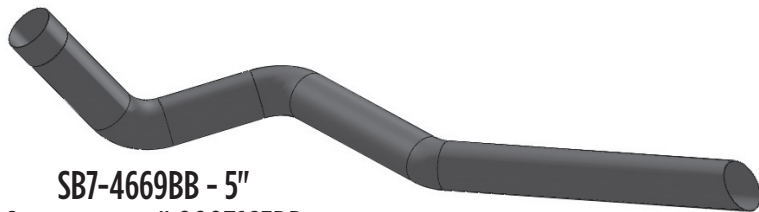


SB3-4901IH
(Optional through Bumper)

Bluebird Left Side Discharge Tailpipes 1998 and Up All-American

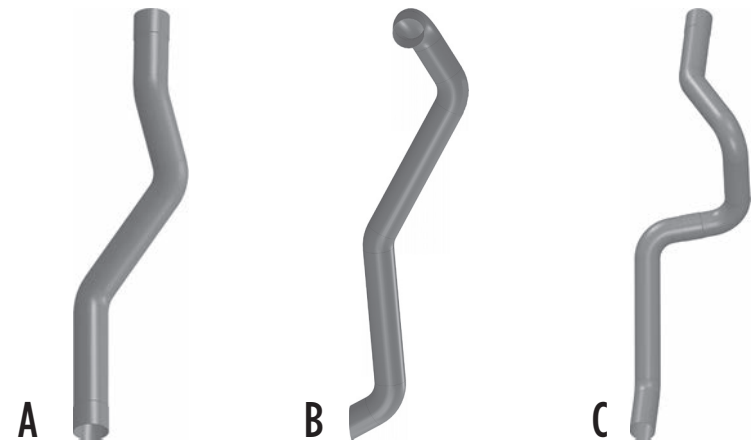


SB6-7741BB-SE - 4"
Compares to # 1997741



SB7-4669BB - 5"
Compares to # 0003165BB

Universal Side Exit Pipes



O.E./MAKE ENG. DESCRIPTION	OUTLET TYPE	PIPE O.D.		STYLE
		4"	5"	
International	w/o Turndown	SB8-4559IH*		A
	w/ Turndown	SB8-4584IH		B
Bluebird TC-2000, Cummins 5.9	w/o Turndown	SB7-4633BB		A
98-02 Bluebird All American	Angle Cut		SB7-4669BB	A
Freightliner	w/o Turndown	SB8-3052FL		C

**Available in 2 piece*

ACCESSORIES OVER DRIVE SHAFT SIDE EXIT PIPES OVER DRIVE SHAFT



SB8-3052FL



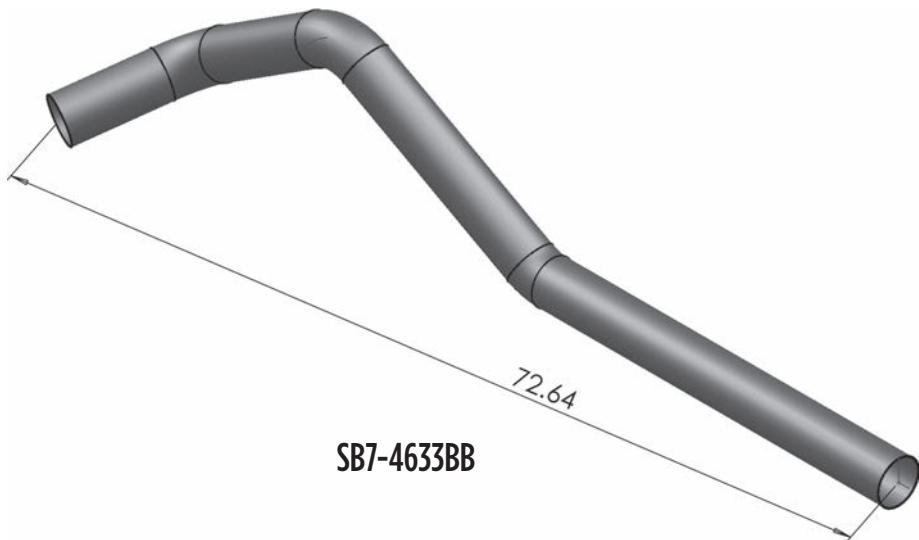
SB8-4584IH



SB7-4669BB



SB8-4559IH



SB7-4633BB

Bluebird Vision 4" Left Side Discharge Tailpipe



SB7-8269BB

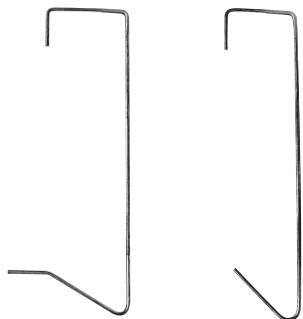


H-BBM131



H-BBP8090

Pipe Hooks



Part No. PH-4A – (2.75" to 4" Dia.)

H.D. pipe hooks.

Part No. PH-6A – (5" to 6" Dia.)

H.D. pipe hooks.

Pipe End Shaper Tool



Part No. Shaper-4 – (2.75" to 4.5" Dia.)

Pipe Cutters



Part No. Pipecut-5 – (2.5" to 5" Dia.)

Part No. Pipecut-65 – (4" to 6.5" Dia.)

Standard tube cutter & wheel style.

Part No. Cutwheel – (Wheel)

Replacement components for tube style cutters.

Muffler Cement



Part No. Cement – 16oz.

This high-performance muffler cement applies like putty but dries metal hard. Sold per tube.

BLUEBIRD SCHOOL BUS APPLICATIONS

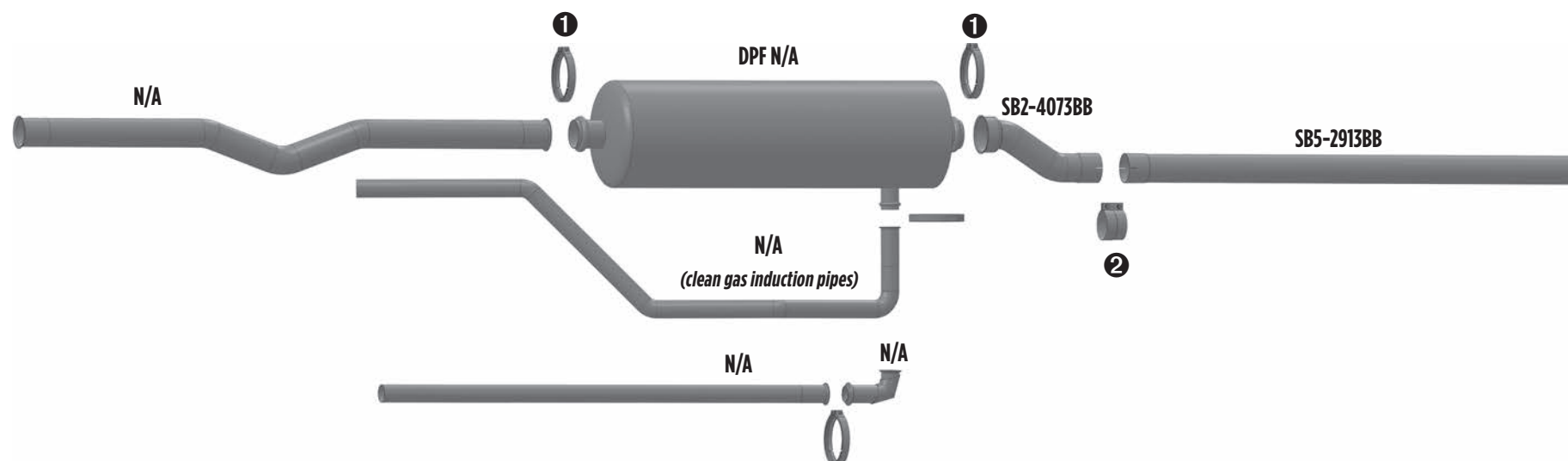
**GRAND
ROCK**

BB094 - '07 - '09 6 Cyl. Bluebird Vision Engine Forward Cat. C7

Clamps

① VB-461D

② WFC-4SS

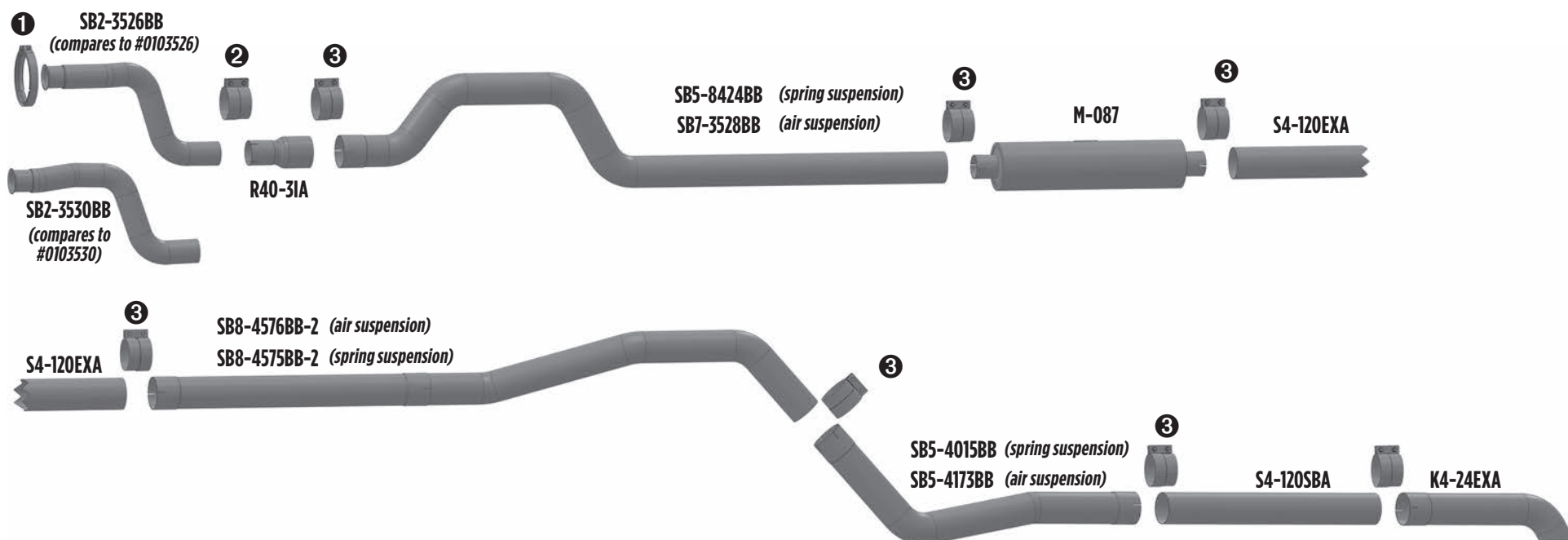


BLUEBIRD SCHOOL BUS APPLICATIONS

BB095 - '06 - '09 6 Cyl. Bluebird All American ISB02, EXC DPF System

Clamps

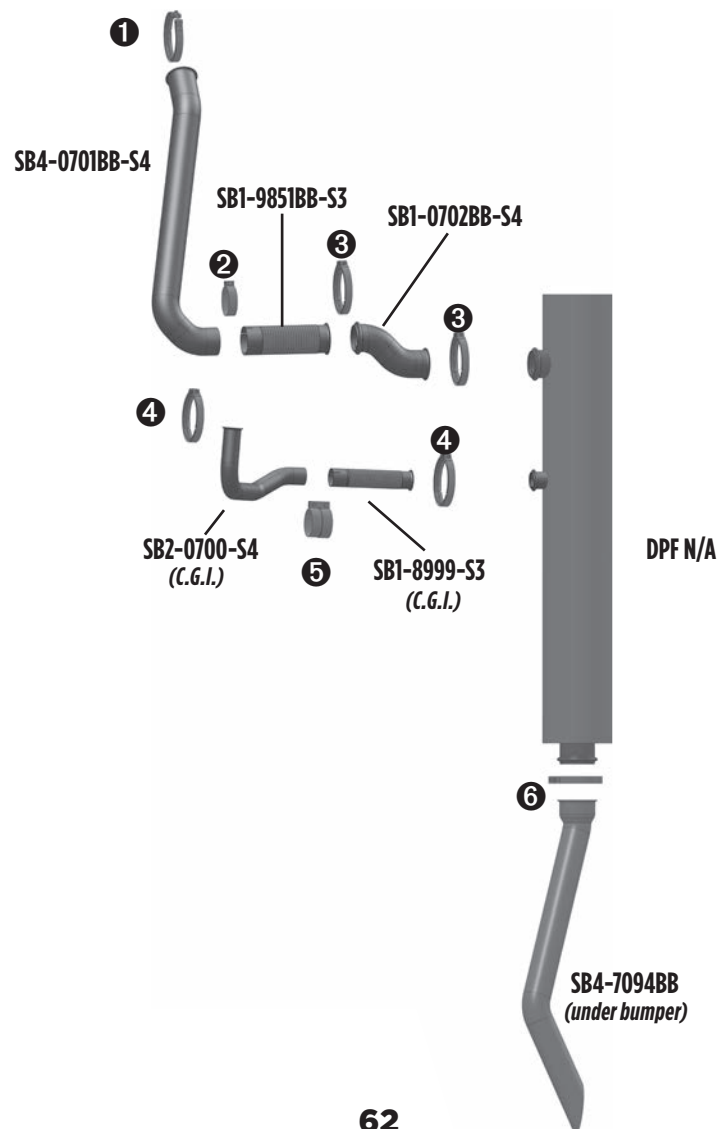
- ① VB-321C
- ② WFC-3SS
- ③ WFC-4SS



BB096 - '07 - '09 6 Cyl. Bluebird All American CAT C7

Clamps

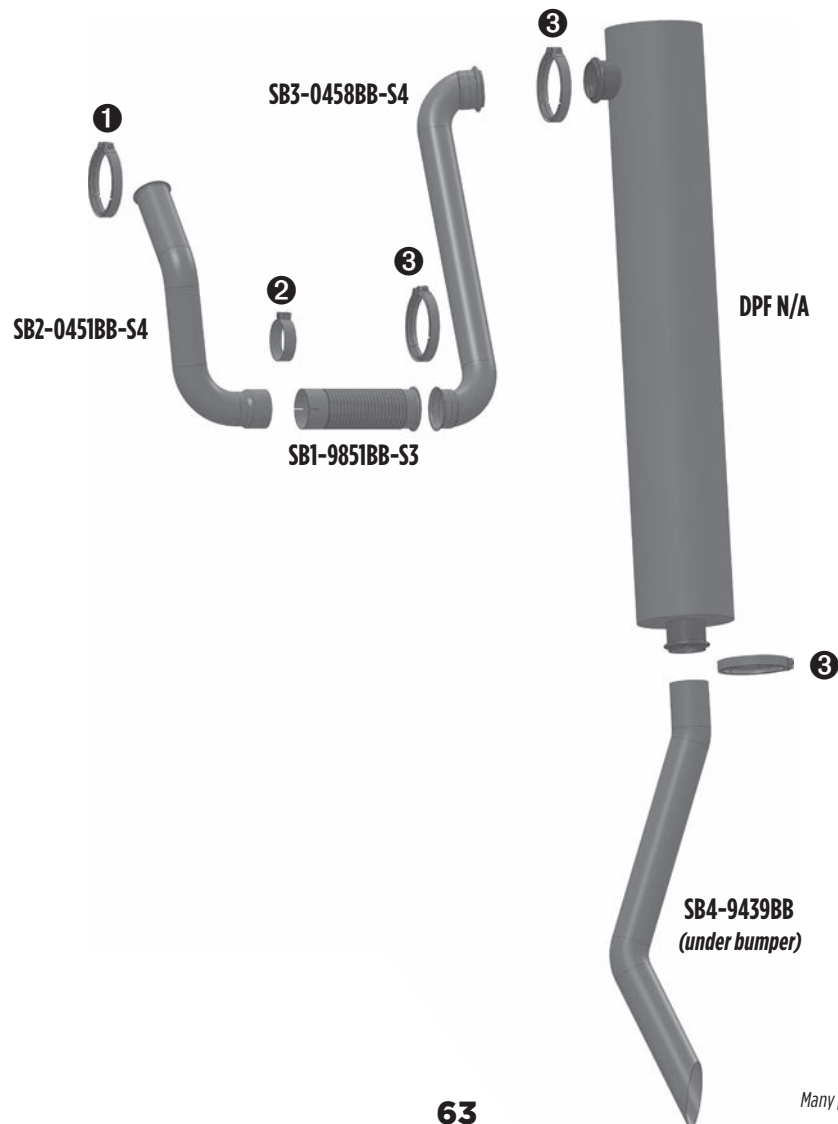
- ① VB-461D
- ② AS-4SS
- ③ VB-461D
- ④ VB-321C
- ⑤ AS-25A
- ⑥ VB-461D



BB097 - '04 - '09 6 Cyl. Bluebird All American Cummins ISC Pusher

Clamps

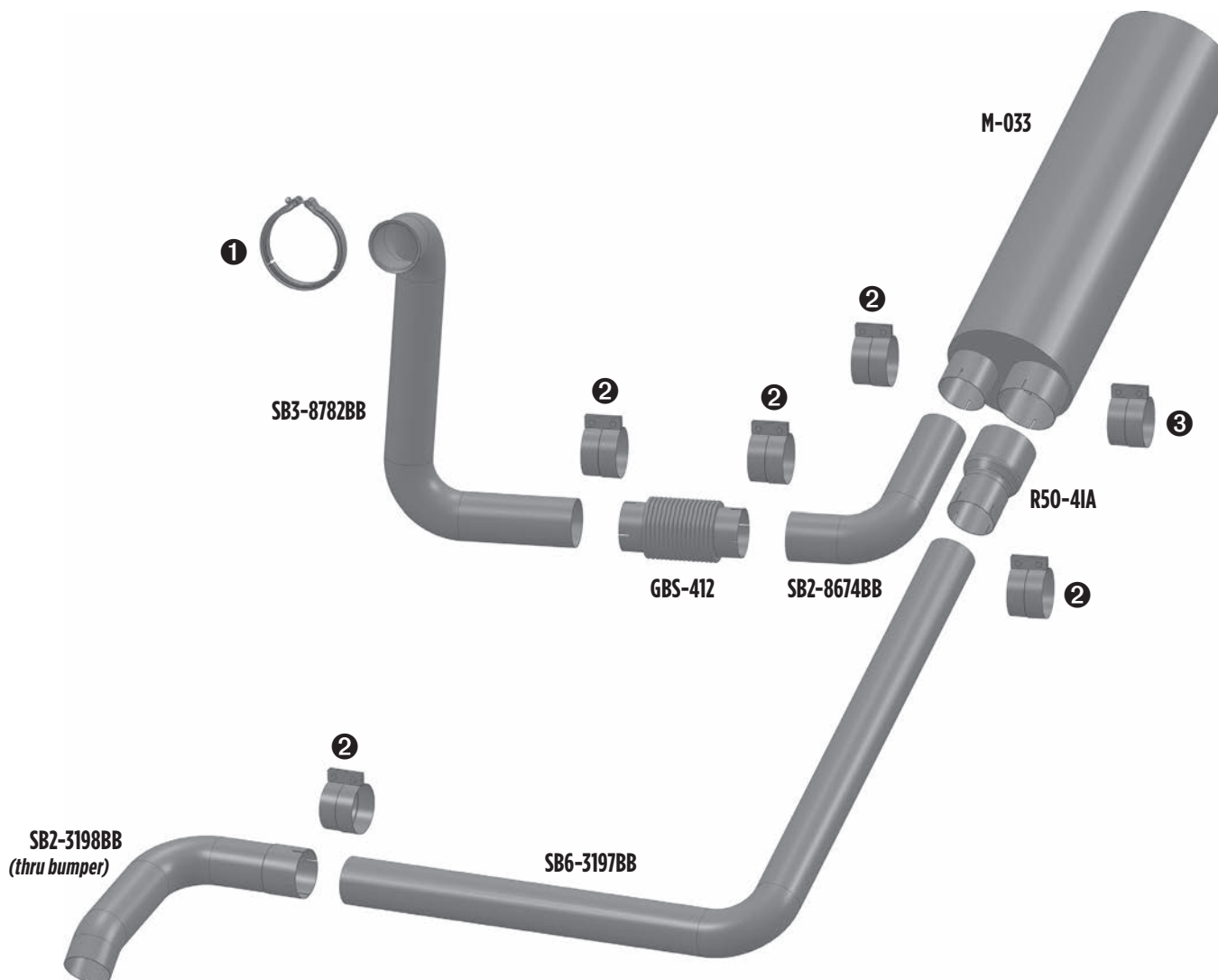
- ❶ VB-413C
- ❷ DS-4SS
- ❸ VB-461D



BB098 - '02 - '06 6 Cyl. Bluebird All American 3126 CAT Pusher

Clamps

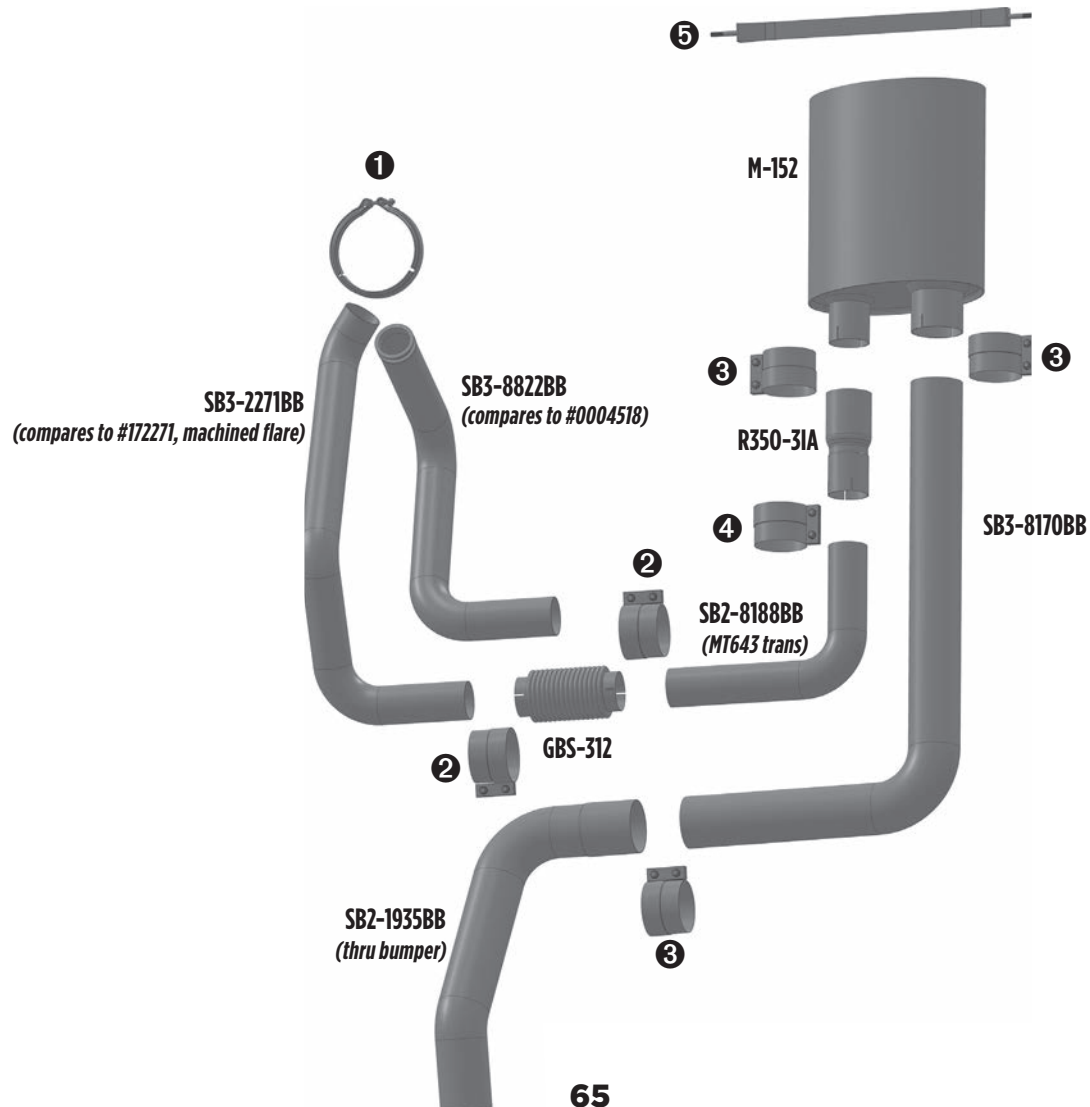
- ① VB-461D
- ② WFC-4SS
- ③ WFC-5SS



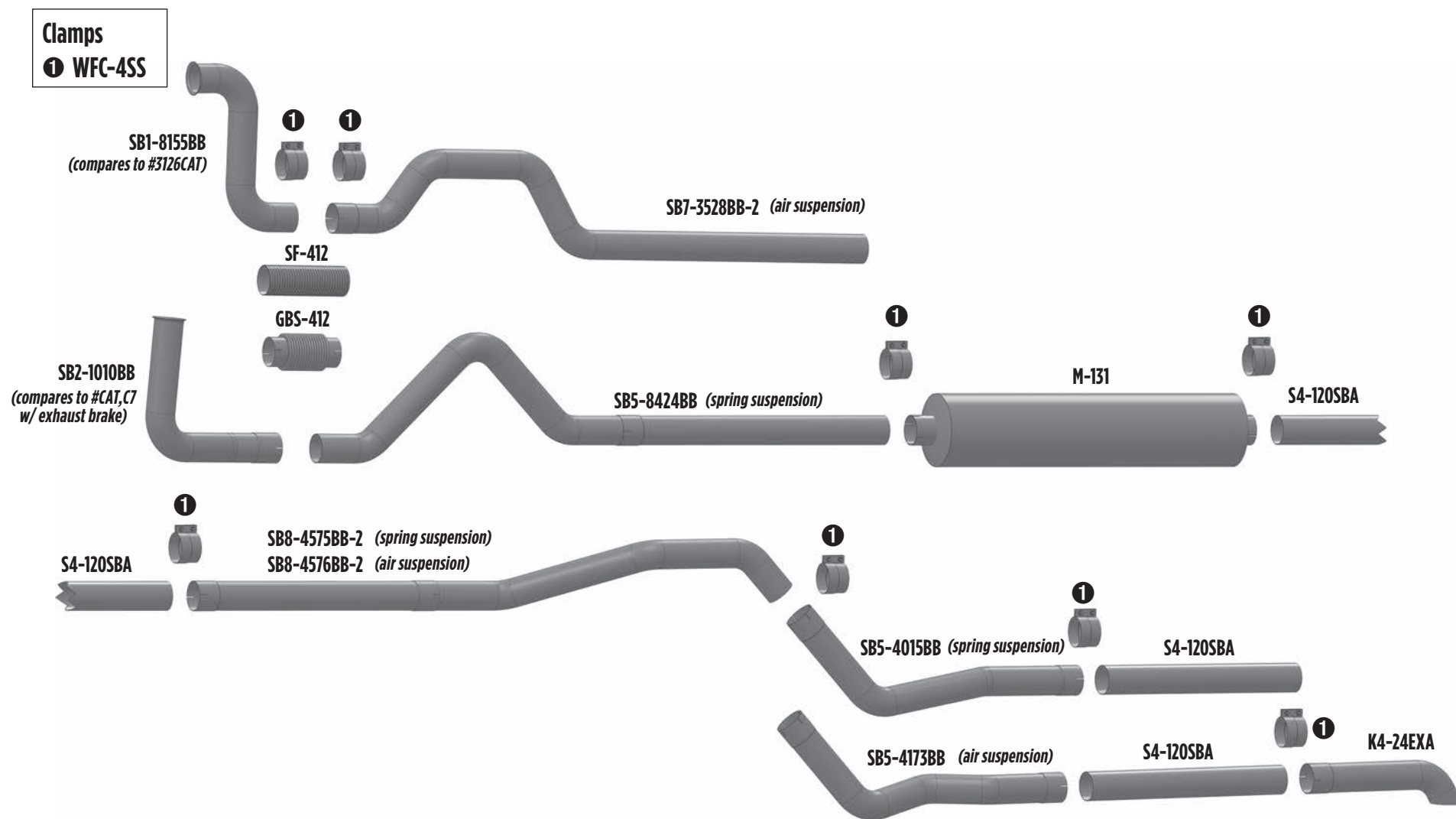
BB099 - '00 - '02 6 Cyl. TC2000 Bluebird B Series Cummins Begin CSN 991136

Clamps

- ① VB-321C
- ② WFC-3SS
- ③ WFC-4SS
- ④ WFC-35SS
- ⑤ H-BBM4



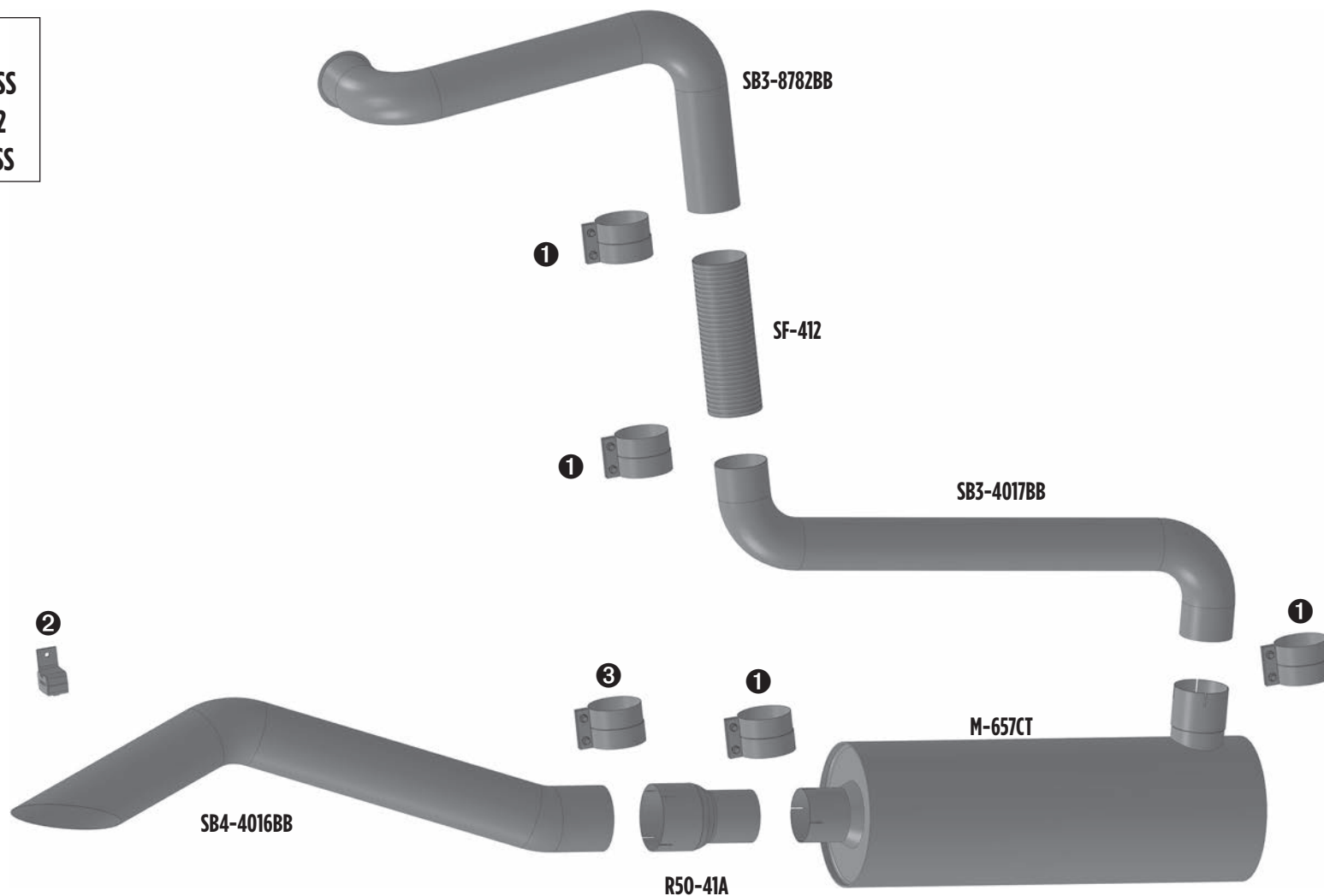
BB100 - '05 - '09 6 Cyl. Bluebird All American CAT, 3126, C7, EXC DPF System



BB101 - '04 - '07 6 Cyl. Bluebird All-American 3126 & C-7 Caterpillar Pusher

Clamps

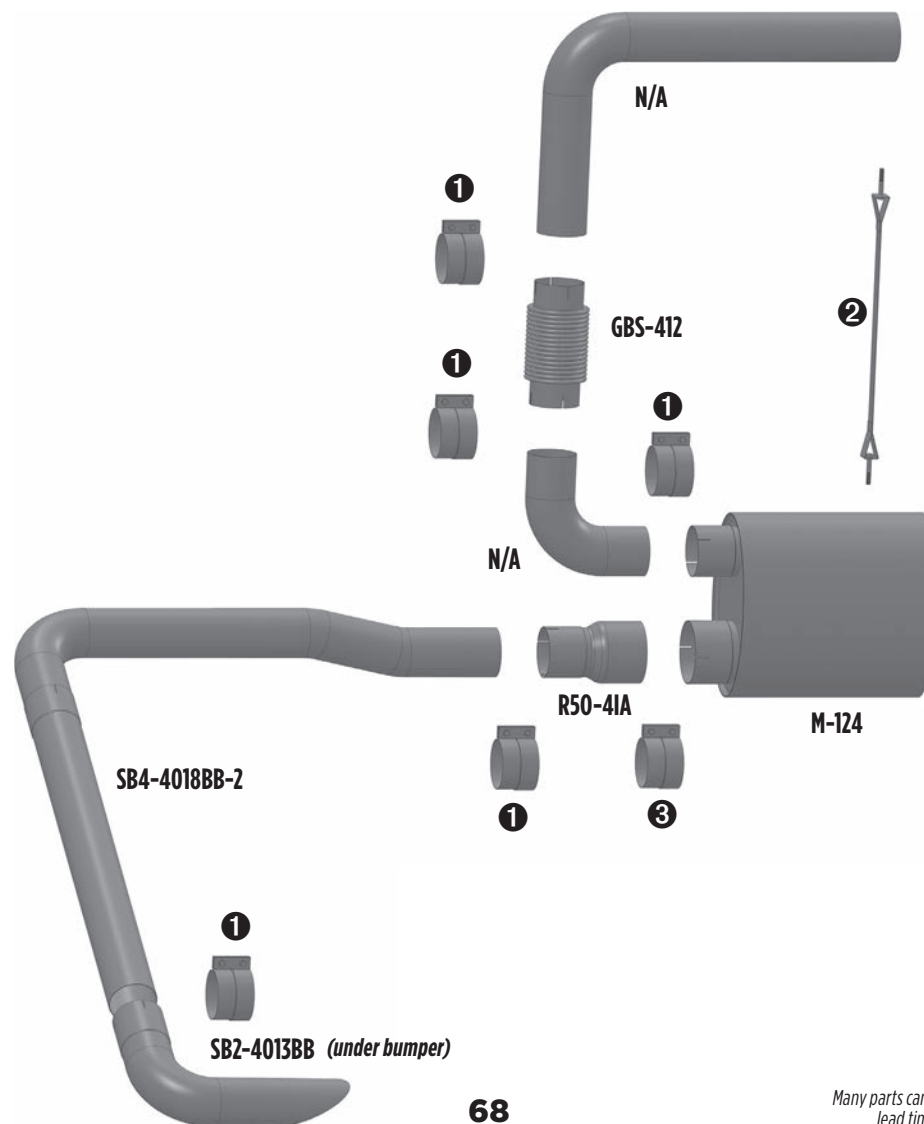
- ❶ WFC-4SS
- ❷ H-BBP2
- ❸ WFC-5SS



BB102 - '99 - '01 6 Cyl. All-American & 8.3 Cummins ISC w/ Left Hand 4" Tailpipe

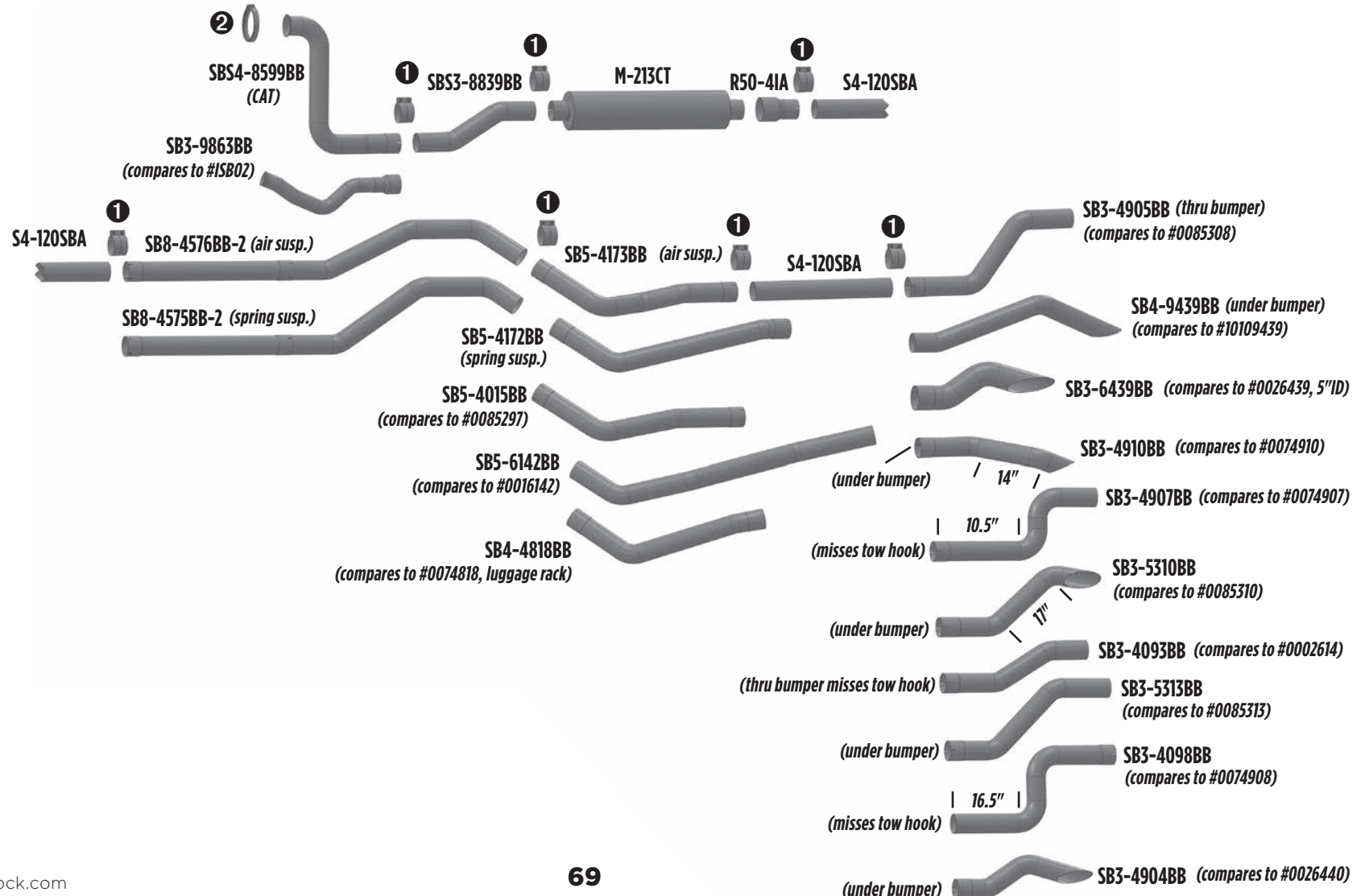
Clamps

- ① WFC-4SS
- ② H-BBM3
- ③ WFC-5SS



BB103 - '04 - '09 6 Cyl. Bluebird Vision w/ 3126-C7 CAT and ISB02 Engine Exc, DPF System

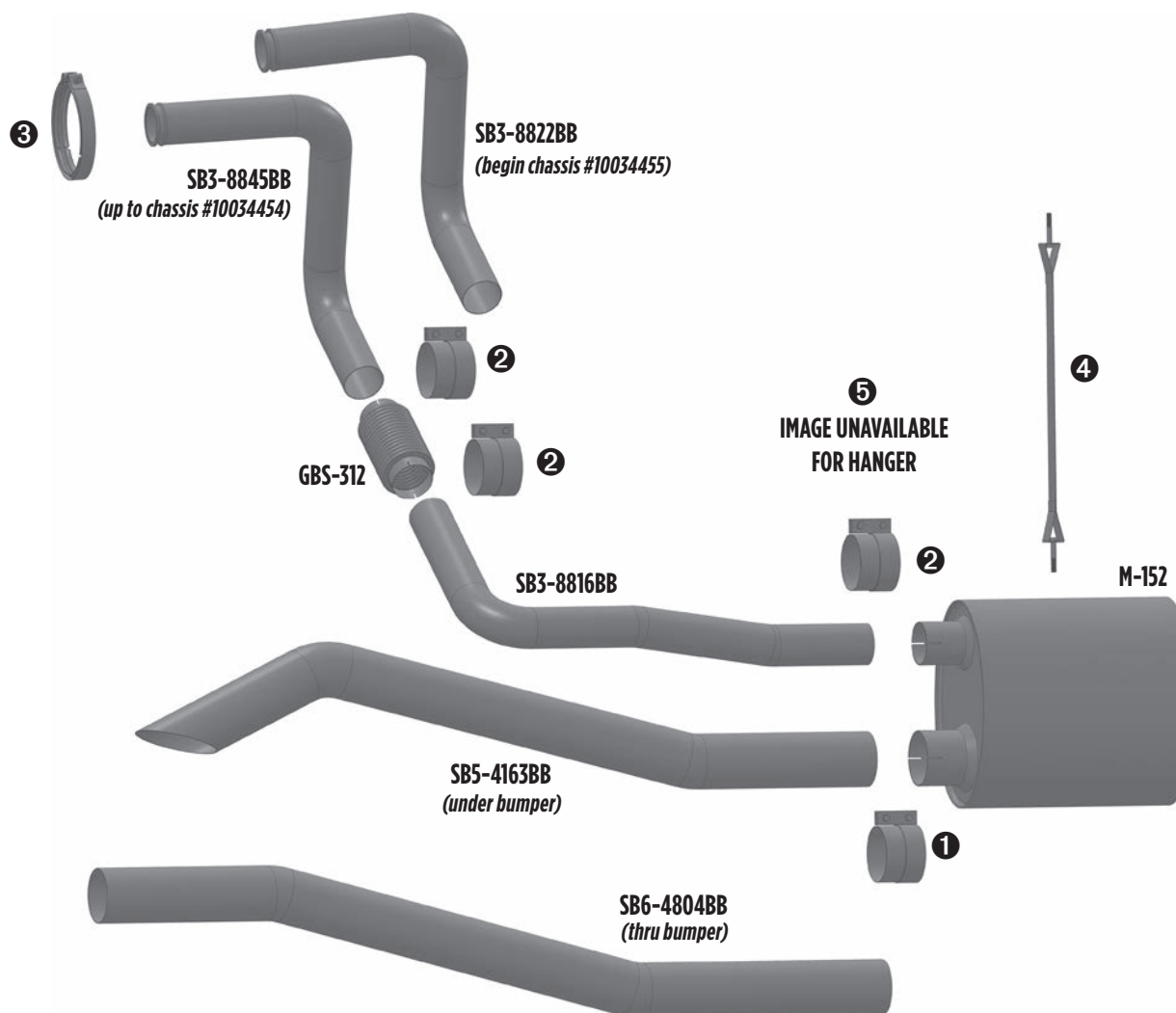
- Clamps**
- ① WFC-4SS
 - ② VB-461D
 - ③ WFC-5SS



BB104 - '00 - '02 6 Cyl. B-Series All-American Pusher w/ 5.9L ISB Rear Engine

Clamps

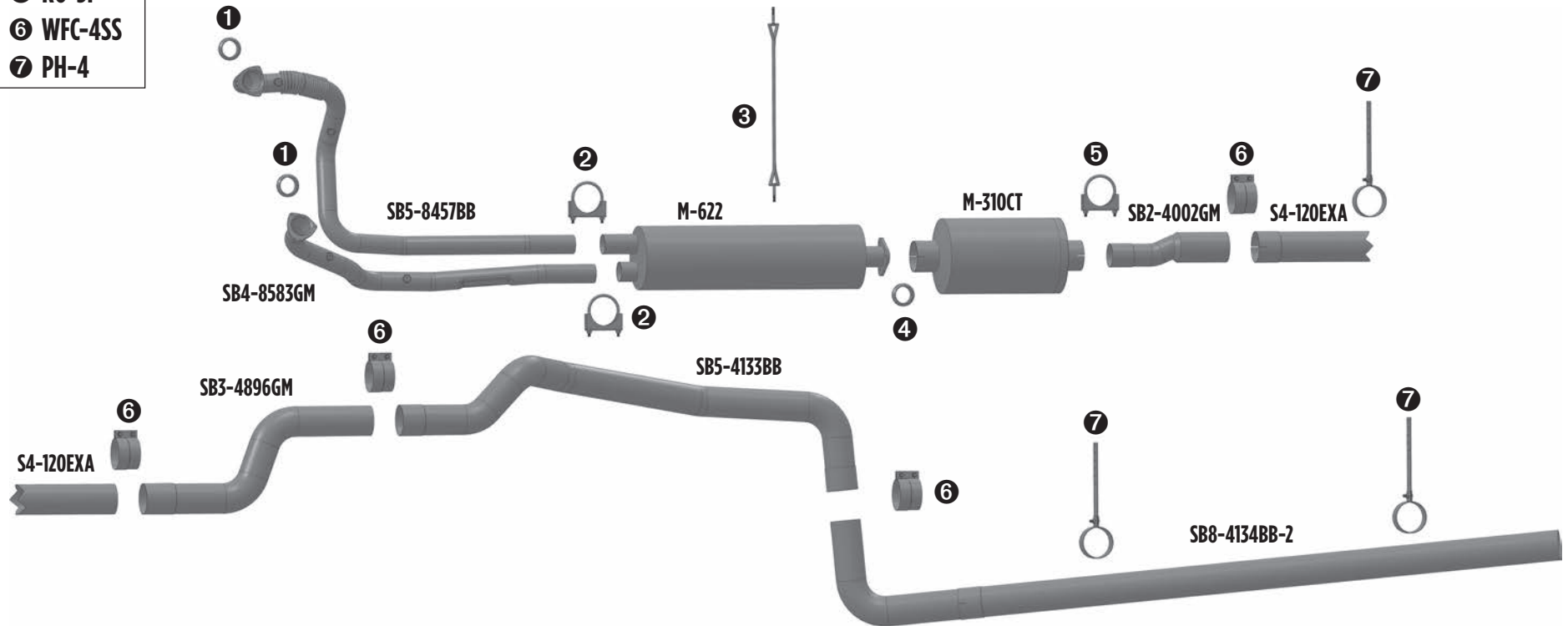
- ① WFC-4SS
- ② WFC-3SS
- ③ VB-321C
- ④ H-BBM4
- ⑤ H-BBP3/
WRO-4P



BB106 - '98 - '02 8 Cyl. CV200 GMC B7 Conventional Chassis w/ 454-502 Engine

Clamps

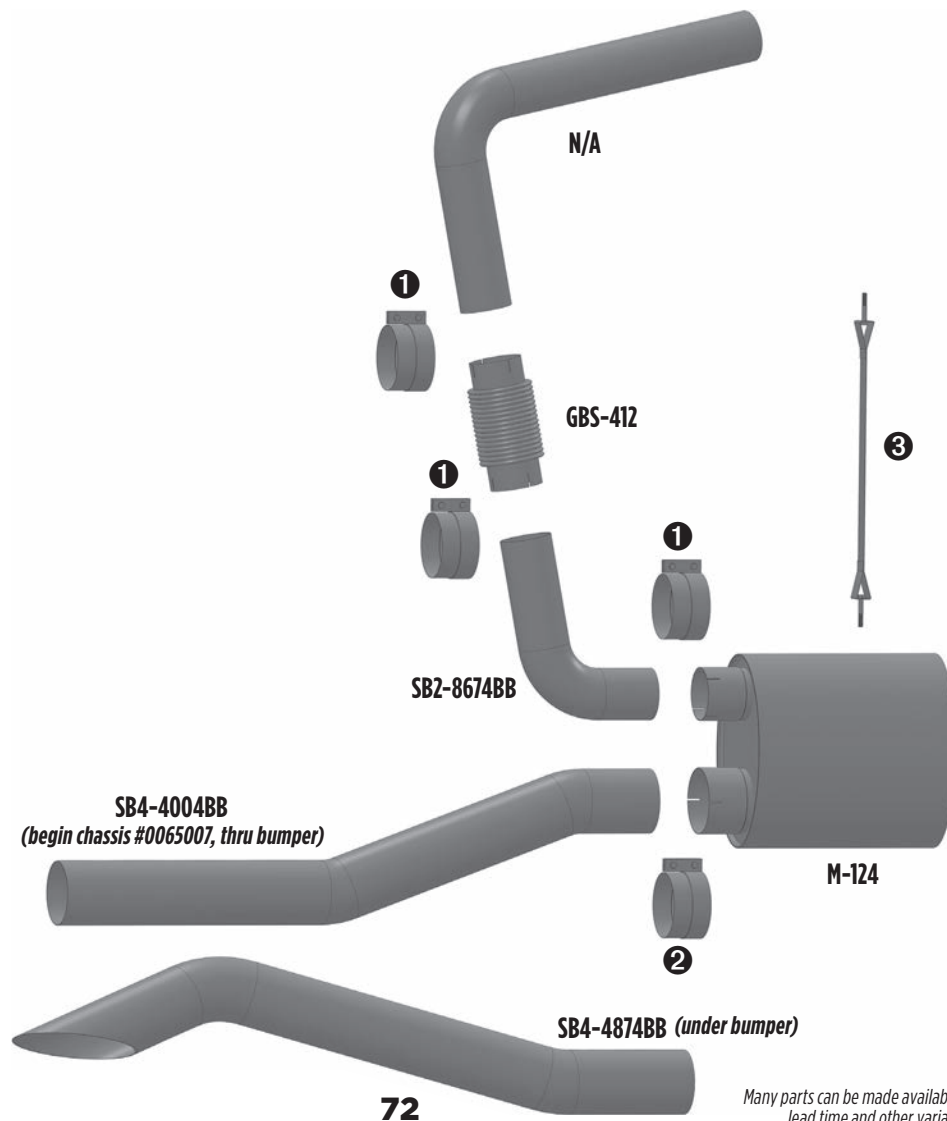
- ① WFC-4SS
- ② VB-461D
- ③ H-BBM1
- ④ G-BB2
- ⑤ RO-3P
- ⑥ WFC-4SS
- ⑦ PH-4



BB107 - '99 - '01 6 Cyl. All-American & TC2000 8.3 Cummins ISC w/ 5" Tailpipe

Clamps

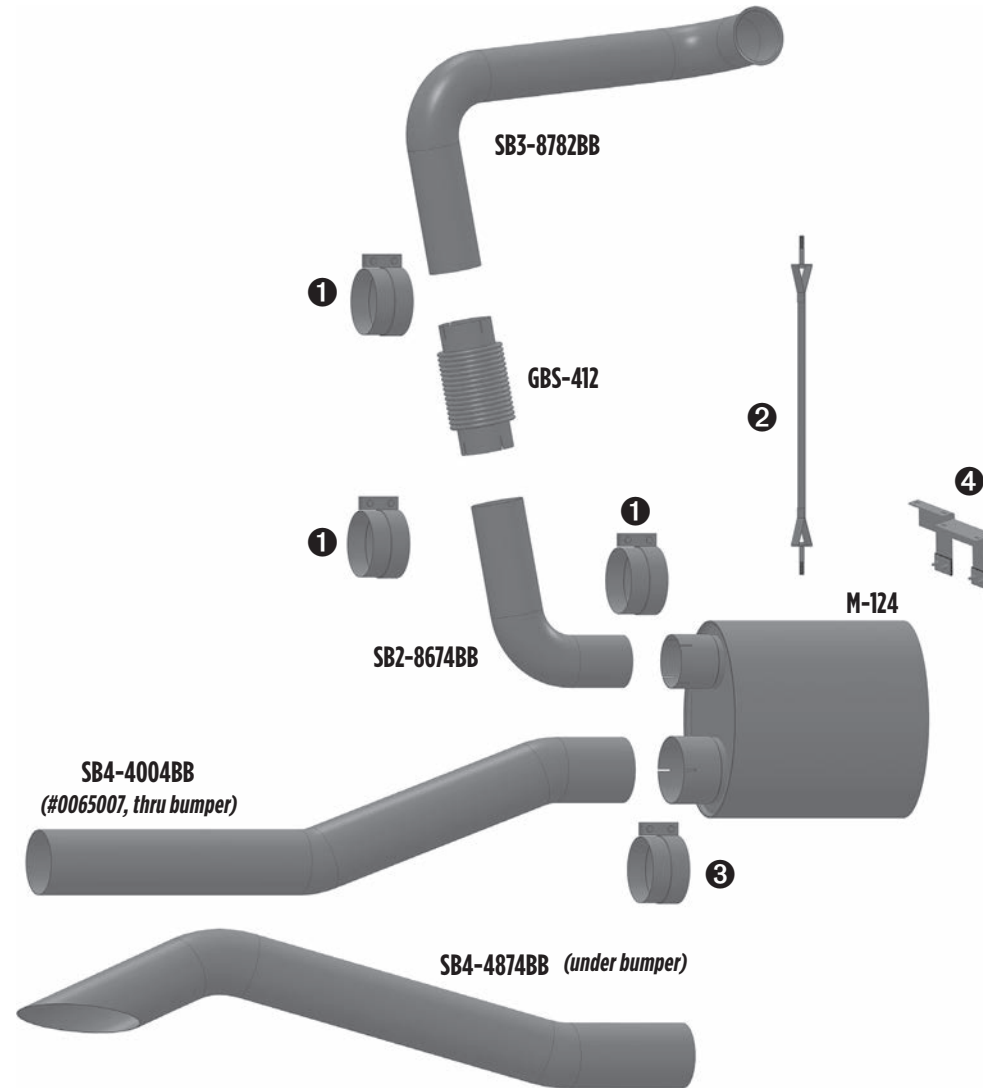
- ❶ WFC-4SS
- ❷ WFC-5SS
- ❸ H-BBM3



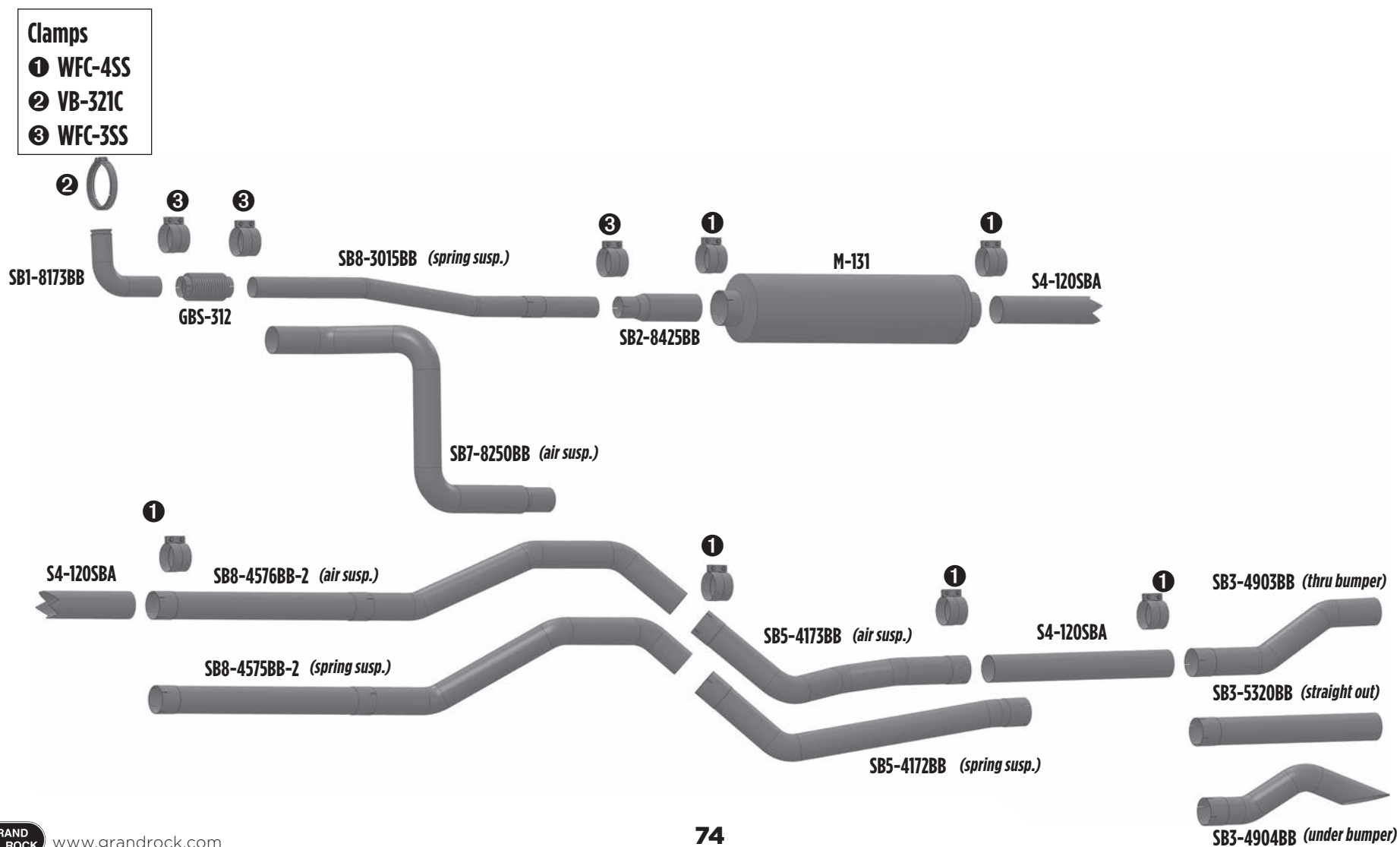
BB108 - '99 - '01 6 Cyl. All-American 3126 Caterpillar Pusher w/ 5' Tailpipe

Clamps

- ① WFC-4SS
- ② H-BBM3
- ③ WFC-5SS
- ④ H-BBM1786



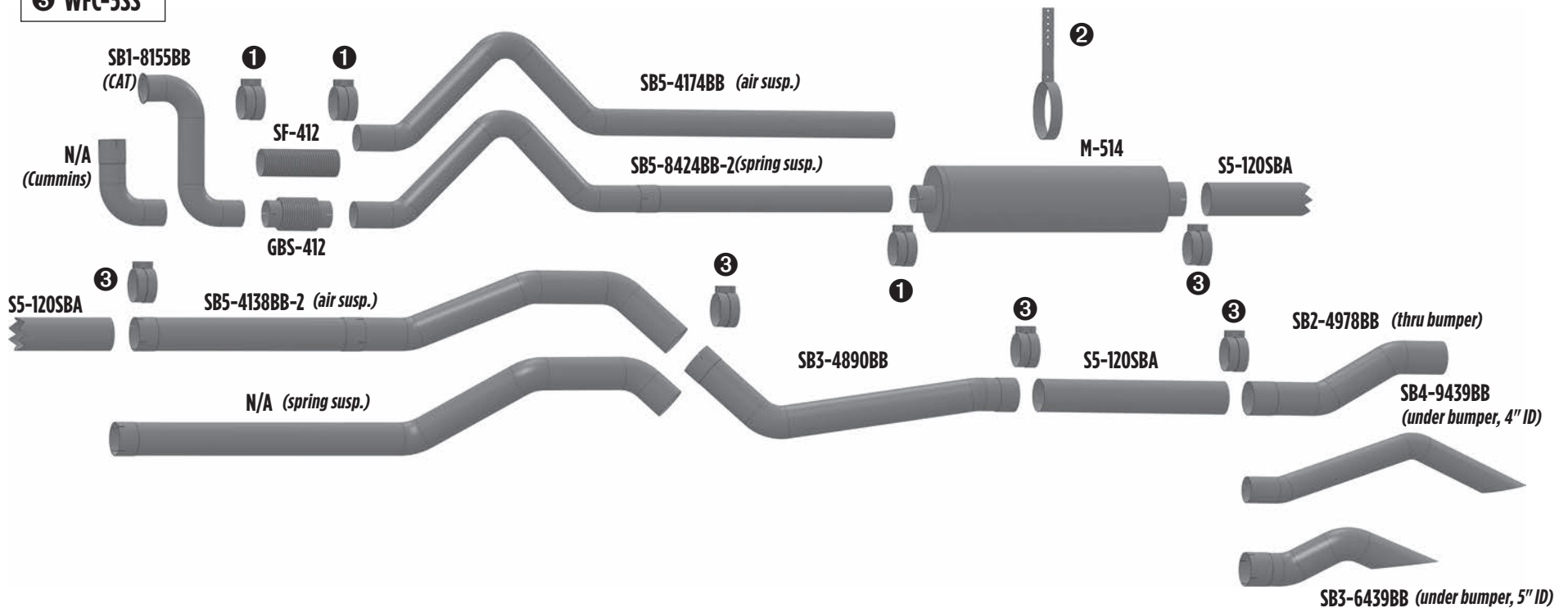
BB109 - 6 Cyl. All-American B Series Cummins 4" System



BB110 - 6 Cyl. All American Puller, CAT 3126 and Cummins 8.3L ISC Engines

Clamps

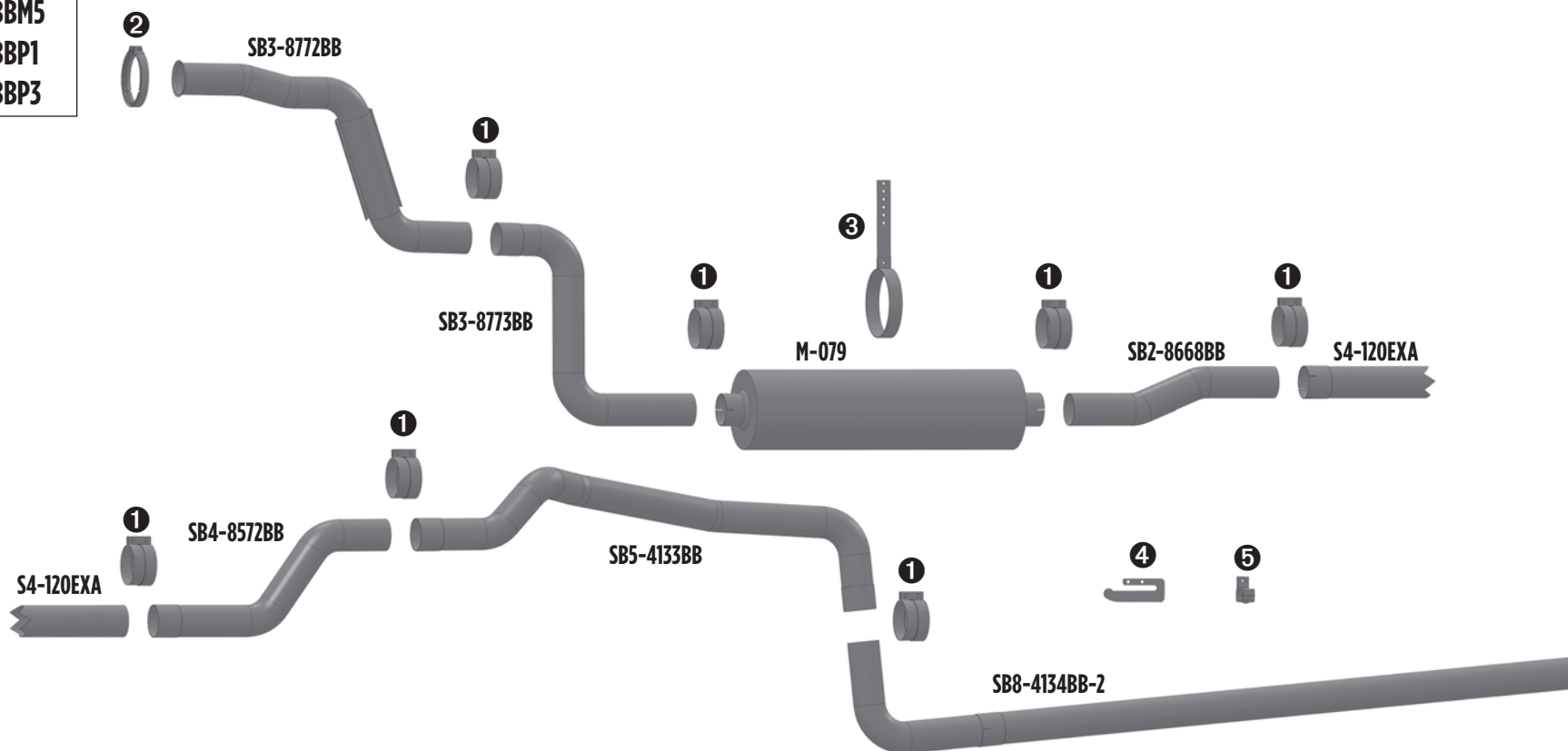
- ① WFC-4SS
- ② RMH-9
- ③ WFC-5SS



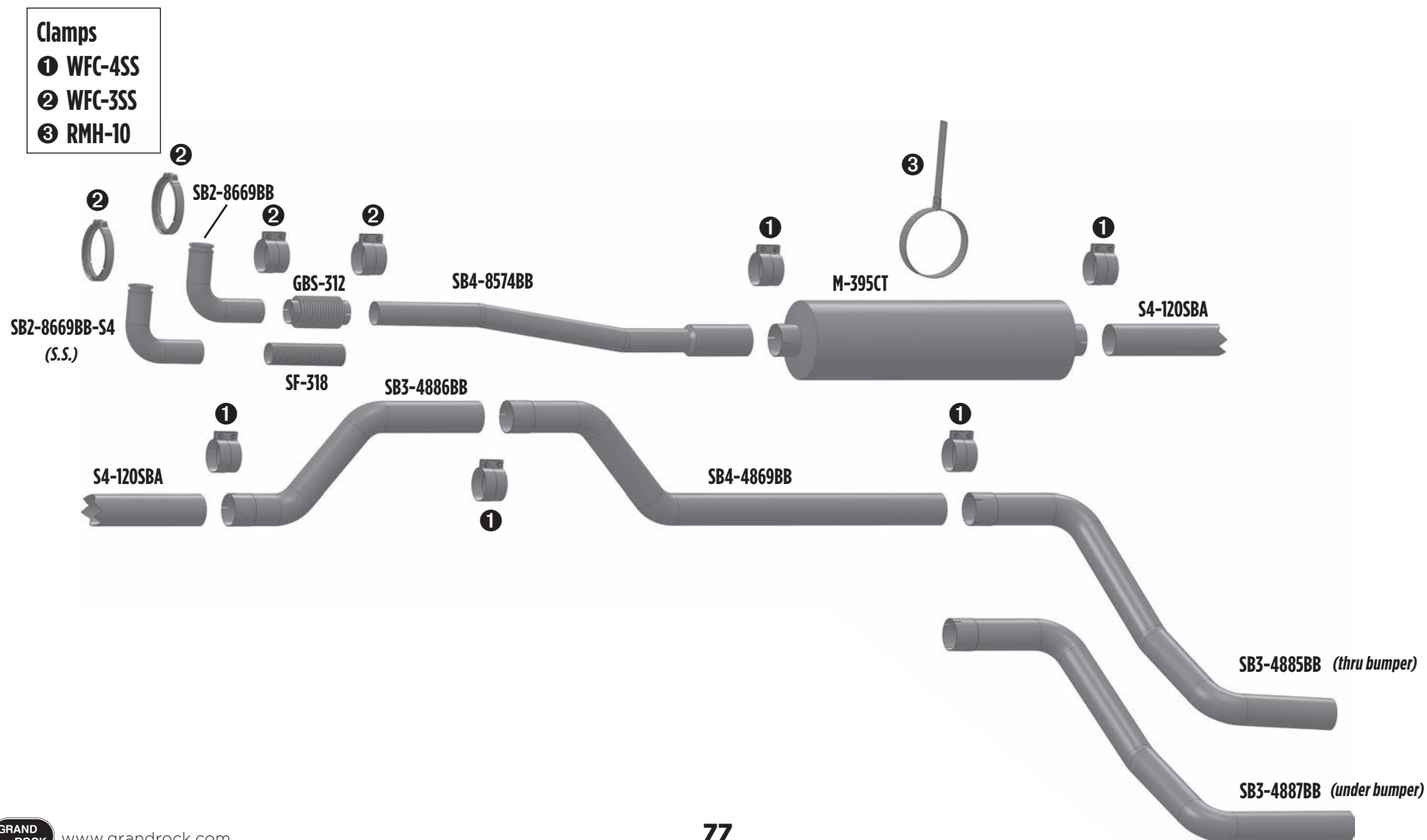
BB111 - '98 - '01 6 Cyl. 3126 Cat Bluebird CV200; GMC B7 Conventional Chassis

Clamps

- ① WFC-4SS
- ② VB-461D
- ③ H-BBM5
- ④ H-BBP1
- ⑤ H-BBP3



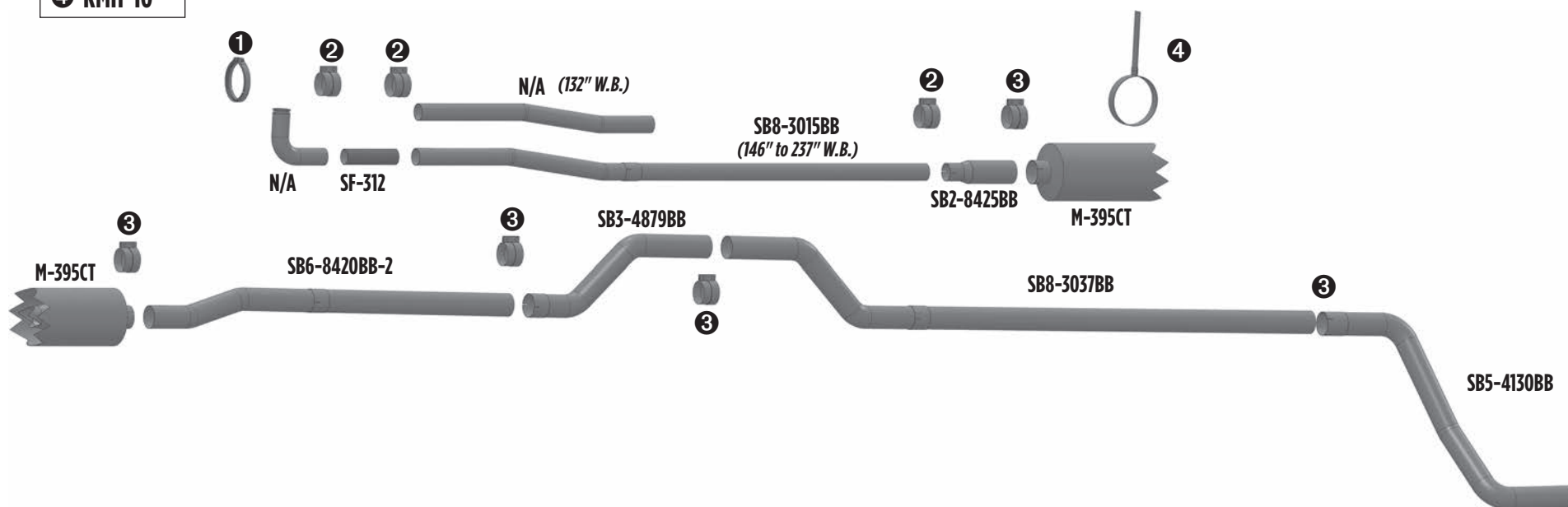
BB112 - '97 - '00 6 Cyl. TC1000, 5.9L B-Series Cummins Engine; 132" Wheel Base



BB113 - '95 - '98 6 Cyl. TC2000 w/ 6BTA; 5.9L Turbo Diesel; Rear Exit Tail Pipe; Side Mounted Fuel Tank; w/ Converter; 132", 146" - 195", 216" - 237" W.B.

Clamps

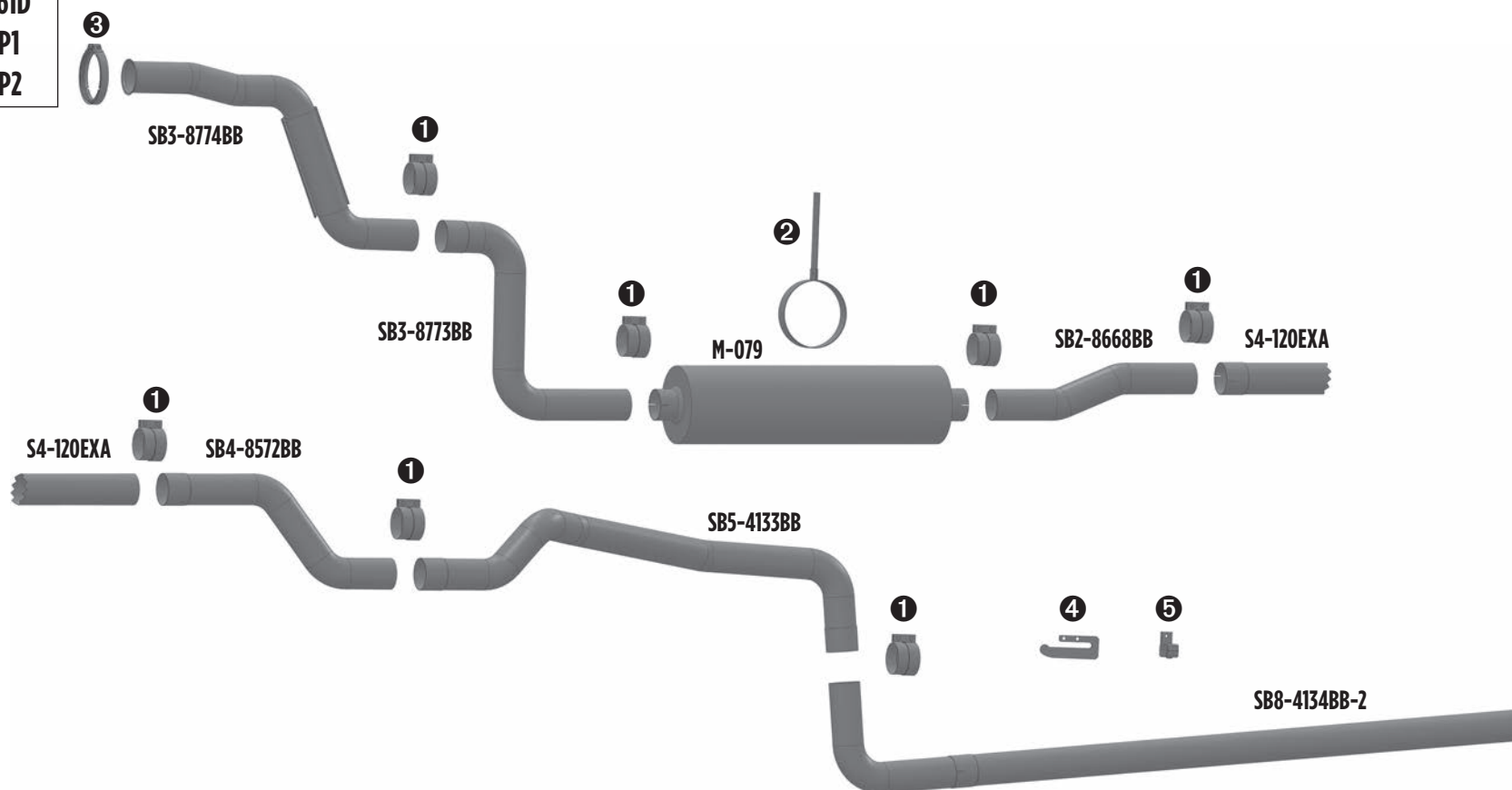
- ① VB-321C
- ② WFC-3SS
- ③ WFC-4SS
- ④ RMH-10



BB114 - '94 - '98 6 Cyl. 3116 Cat Bluebird CV200; GMC B7 Conventional Chassis

Clamps

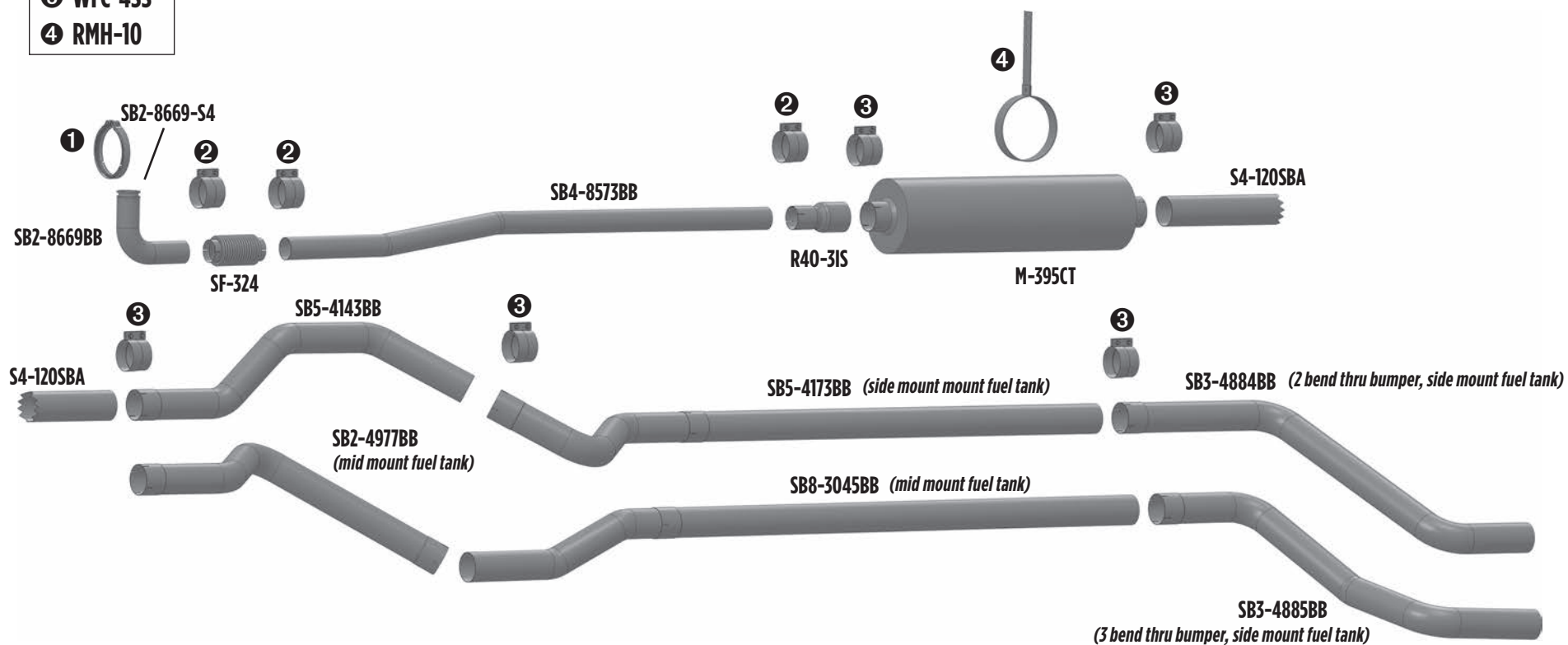
- ① WFC-4SS
- ② RMH-10
- ③ VB-461D
- ④ H-BBP1
- ⑤ H-BBP2



BB116 - '94 - '98 6 Cyl. TC2000, 5.9L B-Series Cummins Engine; w/ Air Ride Suspension; 174"-216" W.B., 237" W.B.

Clamps

- ① VB-321C
- ② WFC-3SS
- ③ WFC-4SS
- ④ RMH-10

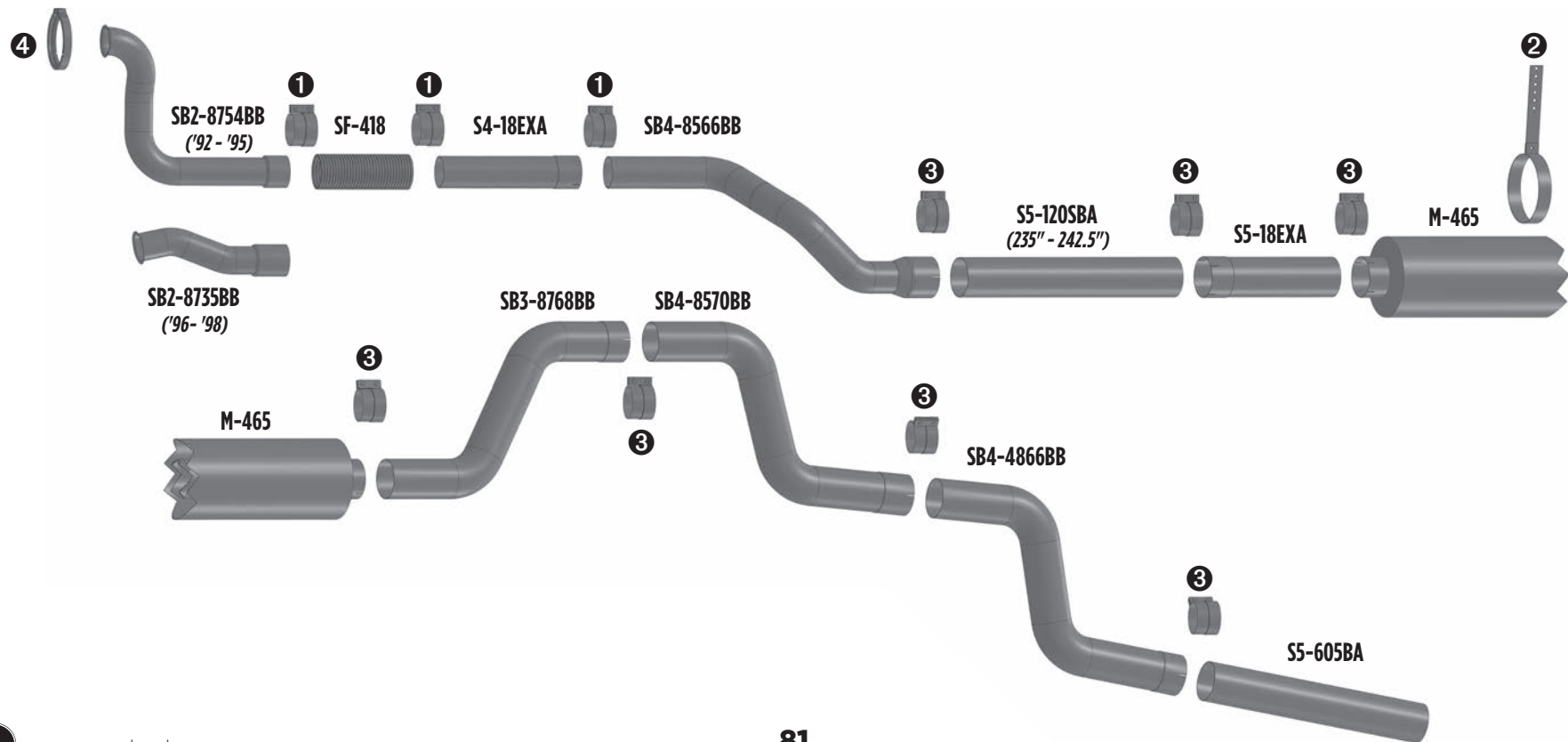


BLUEBIRD SCHOOL BUS APPLICATIONS

BB117 - '92 - '98 6 Cyl. All-American w/ Cummins 8.3L Turbo Diesel; Spring Front Suspension; Mid Mounted Fuel Tank (from Chassis No. 977611); 5" Tail Pipe Through Rear Bumper; 175" - 190", 197.5" - 227.5", 235"-242.5" W.B.

Clamps

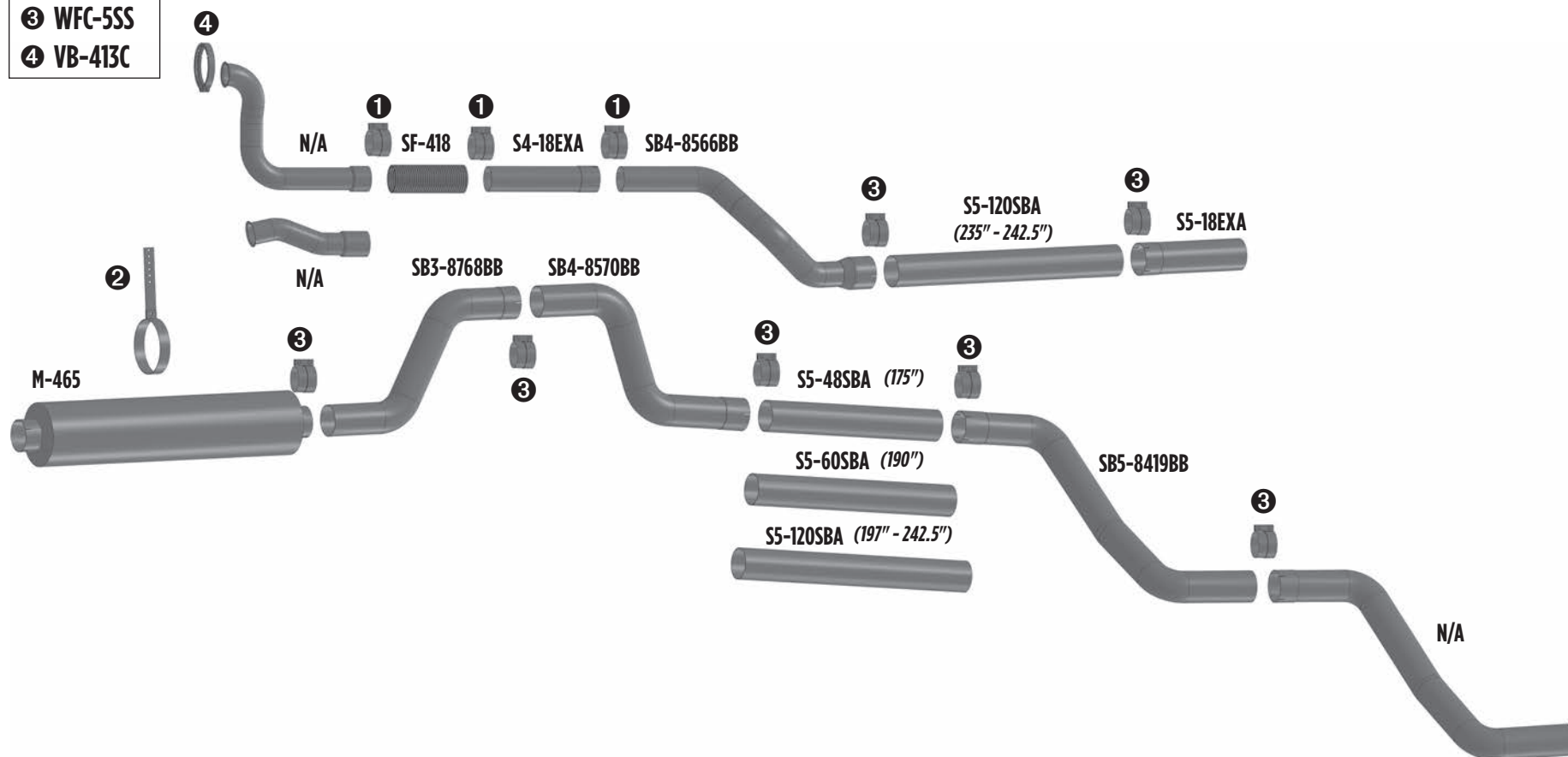
- ① WFC-4SS
- ② RMH-10
- ③ WFC-5SS
- ④ VB-413C



BB118 - '92 - '98 6 Cyl. All-American w/ Cummins 8.3L Turbo Diesel; Spring Front Suspension; Side Mounted Fuel Tank (from Chassis No. 977611); 5" Tail Pipe; 175", 190", 197.5" - 227.5", 235"-242.5" W.B.

Clamps

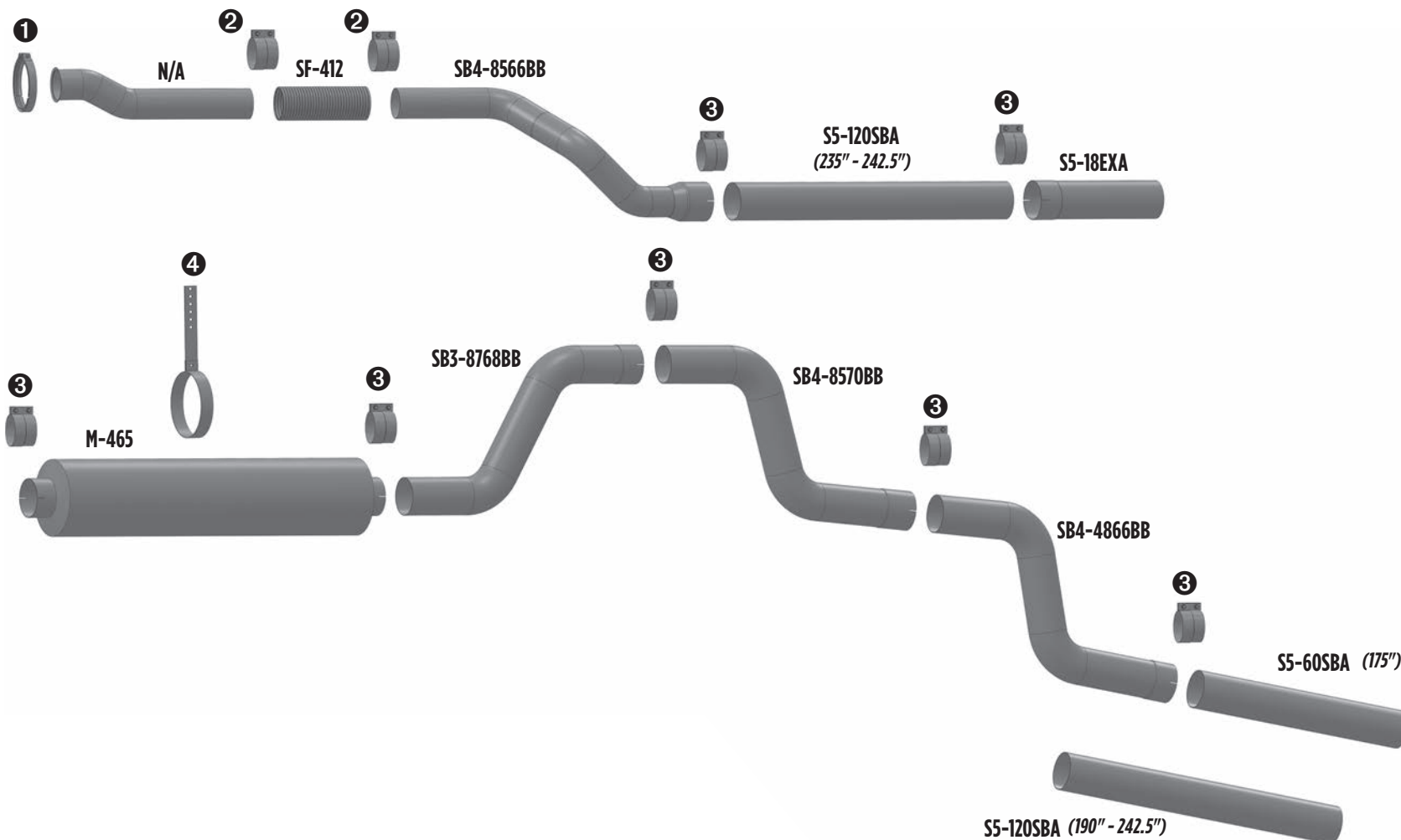
- ① WFC-4SS
- ② RMH-10
- ③ WFC-5SS
- ④ VB-413C



BB119 - '92 - '98 6 Cyl. All American w/ Caterpillar 3116 (6.6L) Diesel; Mid-Mounted Fuel Tank (From Chassis No. 977303); 5" Tail Pipe Through Rear Bumper; 175", 190"-227.5", 235"-242.5" W.B.

Clamps

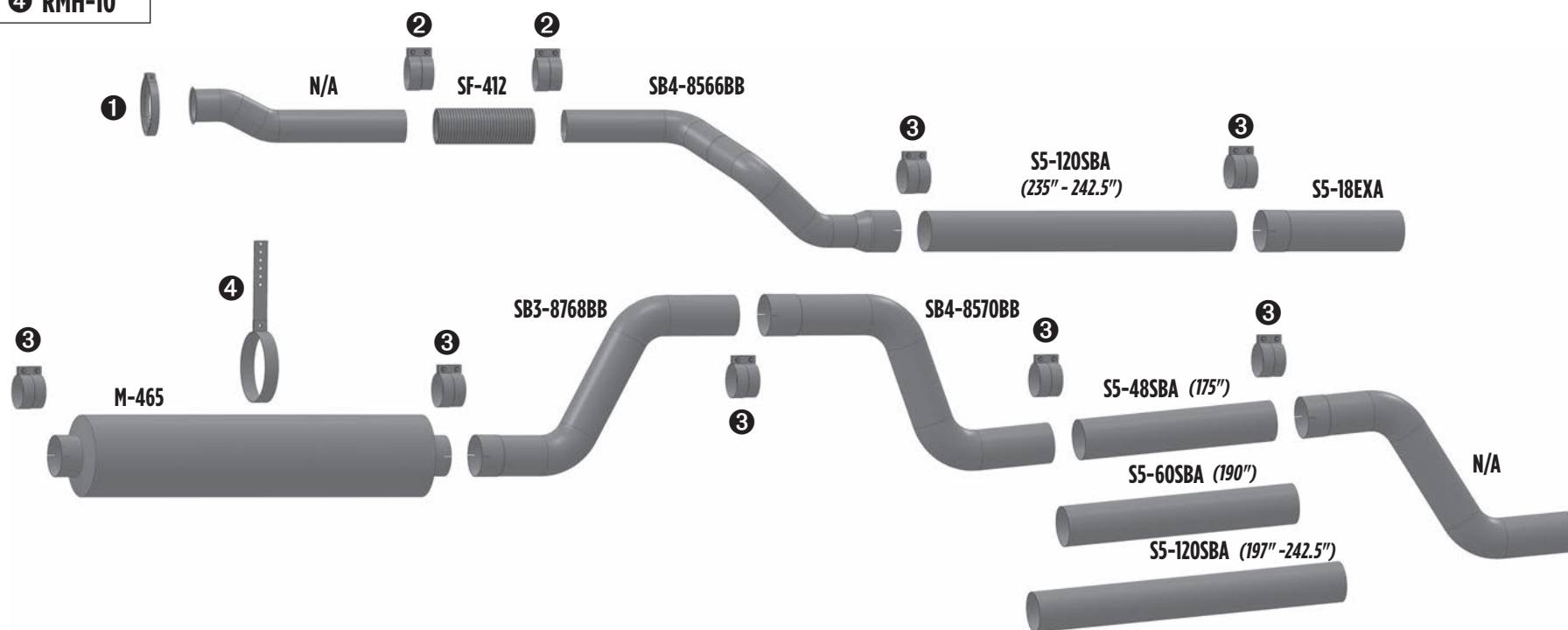
- ① VB-461D
- ② WFC-4SS
- ③ WFC-5SS
- ④ RMH-10



BB120 - '92 - '98 6 Cyl. All American w/ Caterpillar 3116 (6.6L) Diesel; Side-Mounted Fuel Tank (From Chassis No. 977303); 5" Tailpipe; 175", 190", 197.5"-227.5", 235"-242.5" W.B.

Clamps

- ① VB-461D
- ② WFC-4SS
- ③ WFC-5SS
- ④ RMH-10

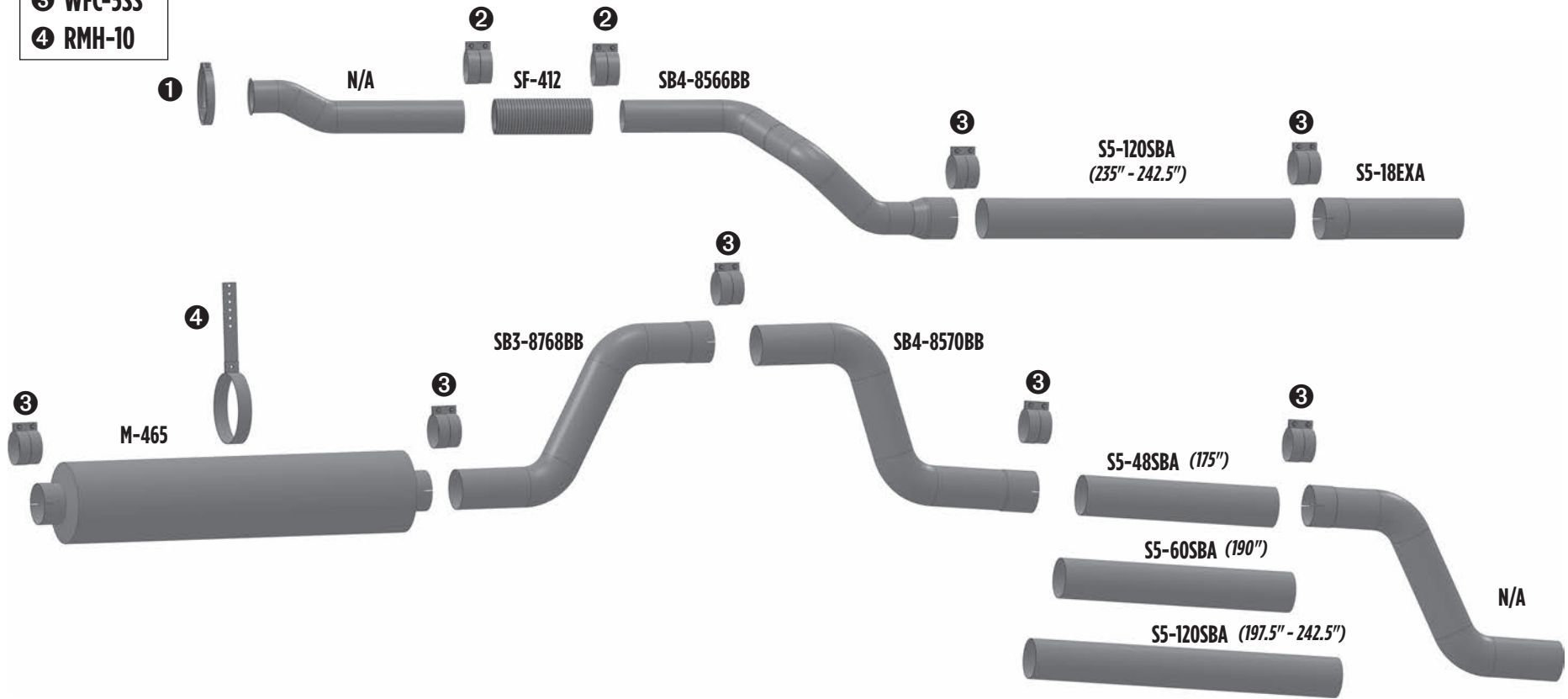


BLUEBIRD SCHOOL BUS APPLICATIONS

**BB121 - '92 - '98 6 Cyl. All American w/ Caterpillar 3116 (6.6L) Diesel; Side Mounted Fuel Tank; 5" Tail Pipe
(From Chassis No. 977303); 175", 190", 197.5"-227.5", 235"-242.5" W.B.**

Clamps

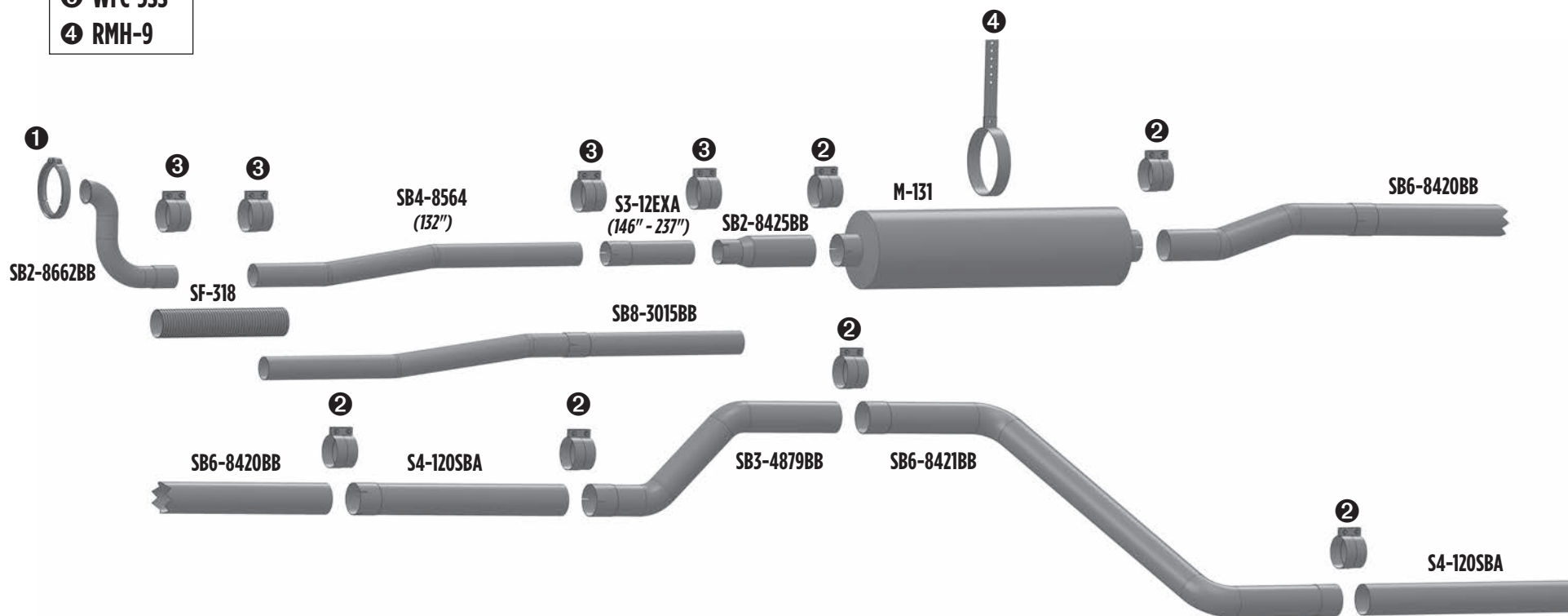
- ① VB-461D
- ② WFC-4SS
- ③ WFC-5SS
- ④ RMH-10



**BB122 - '88 - '97 6 Cyl. TC2000 w/ 6BTA; 5.9L Turbo Diesel; Rear Exit Tail Pipe; Mid-Mounted Fuel Tank;
w/ Codes 4452, 4453, 4513, 4514; 132", 146"-174", 195"-216", 237" W.B.**

Clamps

- ① VB-461D
- ② WFC-4SS
- ③ WFC-3SS
- ④ RMH-9

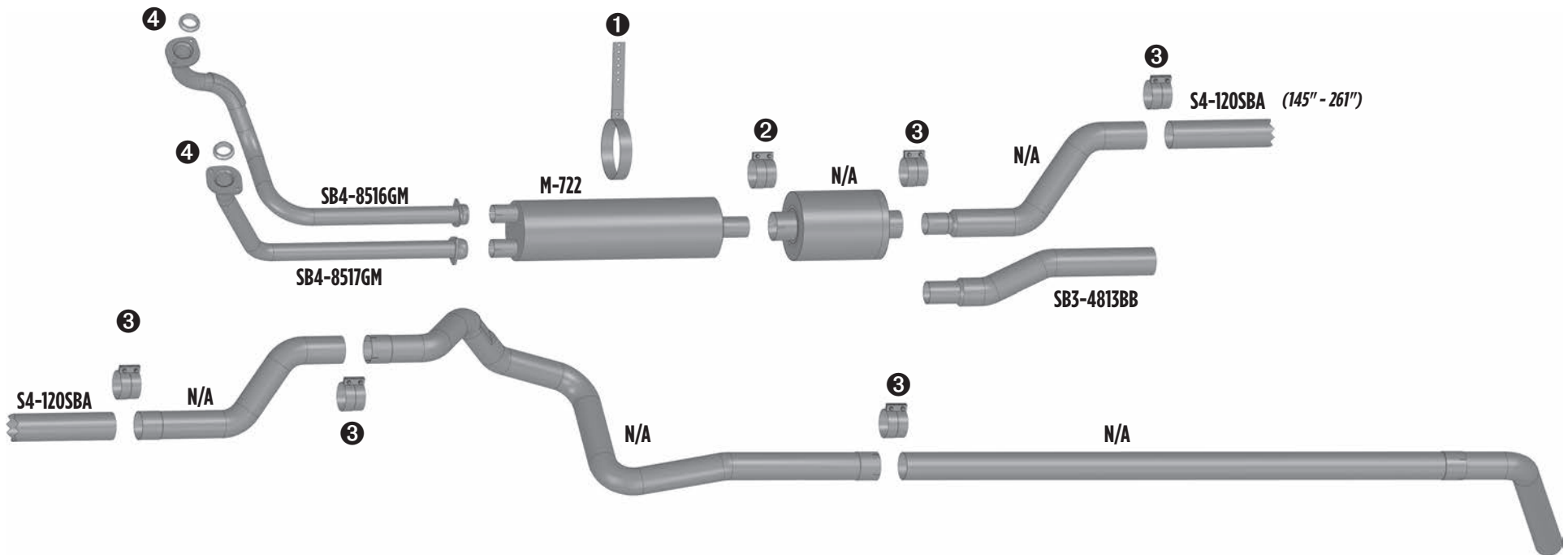


BLUEBIRD SCHOOL BUS APPLICATIONS

BB123 - '92 - '95 8 Cyl. CV200 w/ 366, 427 C.I.D. gas Engine w/ Converter; Tail Pipe Exits at the Rear of Bus; 145", 157"-193", 209"-261" W.B.

Clamps

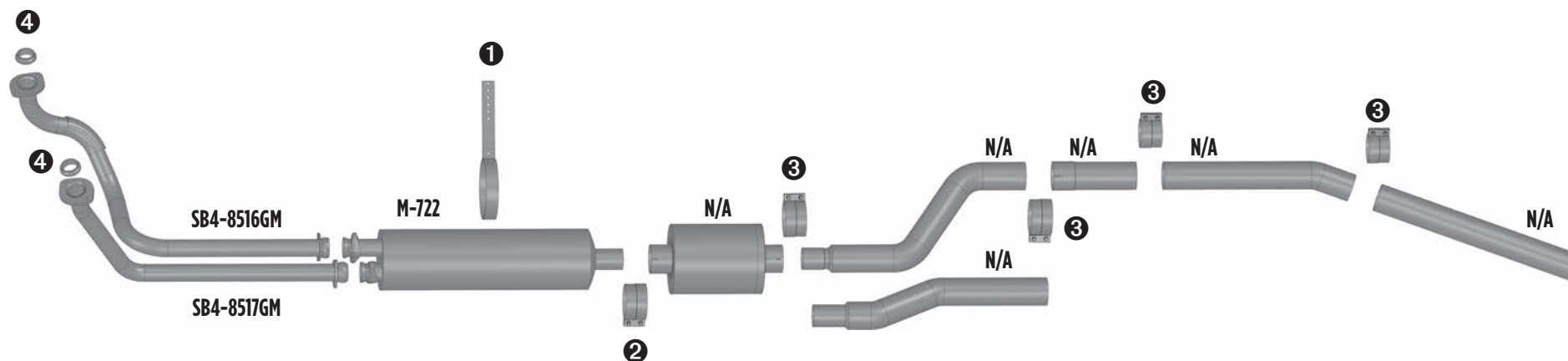
- ① RMH-85
- ② WFC-3SS
- ③ WFC-4SS
- ④ GBB-1



BB124 - '92 - '95 8 Cyl. CV200; 366, 427 (6.0, 7.0) TBI Eng.; With Converter; Tail Pipe Exits Side of Bus in Front of Rear Wheel; 145", 209", 261" W.B.

Clamps

- ① RMH-85
- ② WFC-3SS
- ③ WFC-4SS
- ④ GBB-1

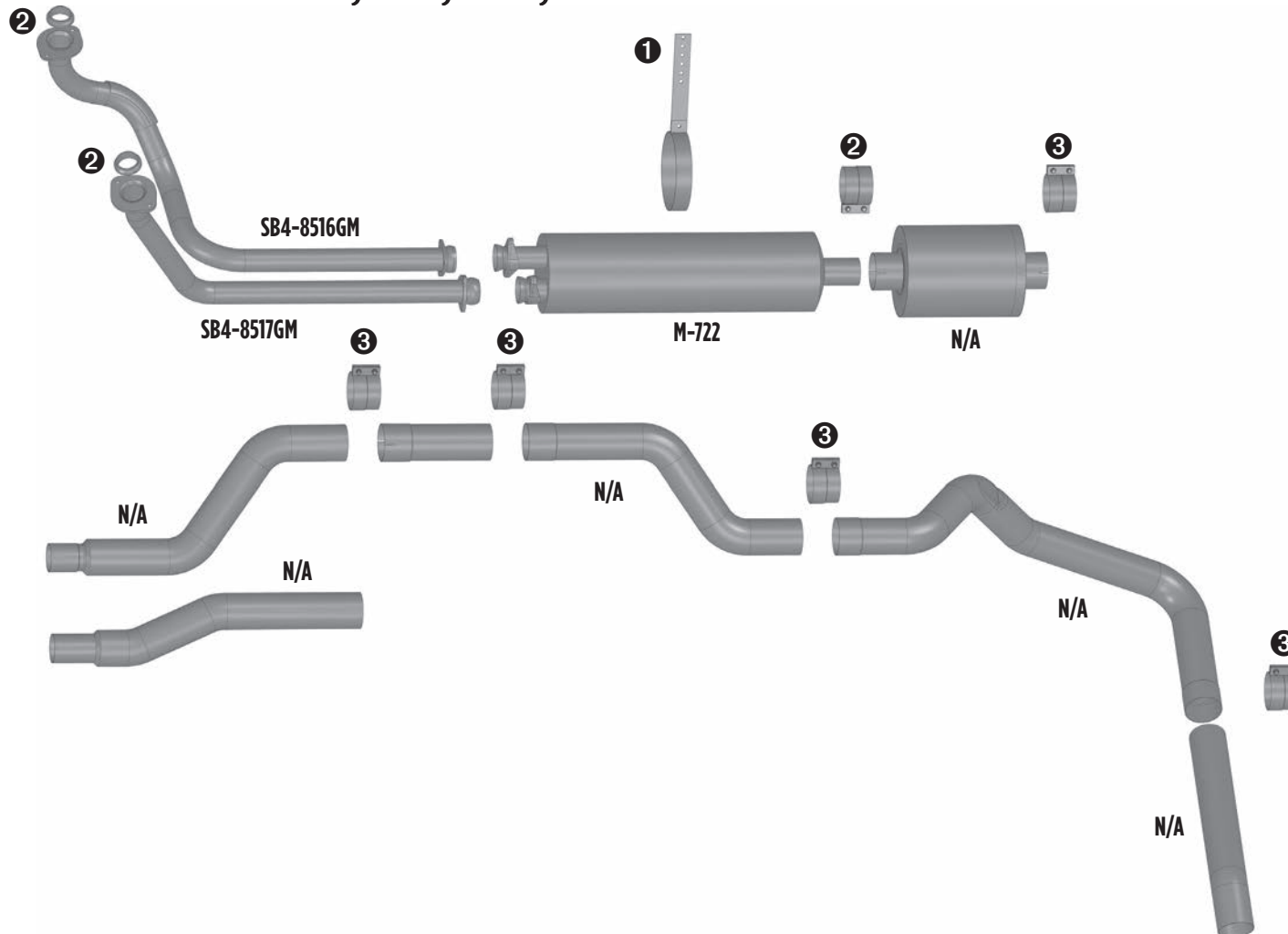


BLUEBIRD SCHOOL BUS APPLICATIONS

BB125 - '92 - '95 8 Cyl. CV200; 366, 427 (6.0, 7.0) TBI Eng.; With Converter; Tail Pipe Exits Side of Bus Behind Rear Wheel; 145", 209", 261" W.B.

Clamps

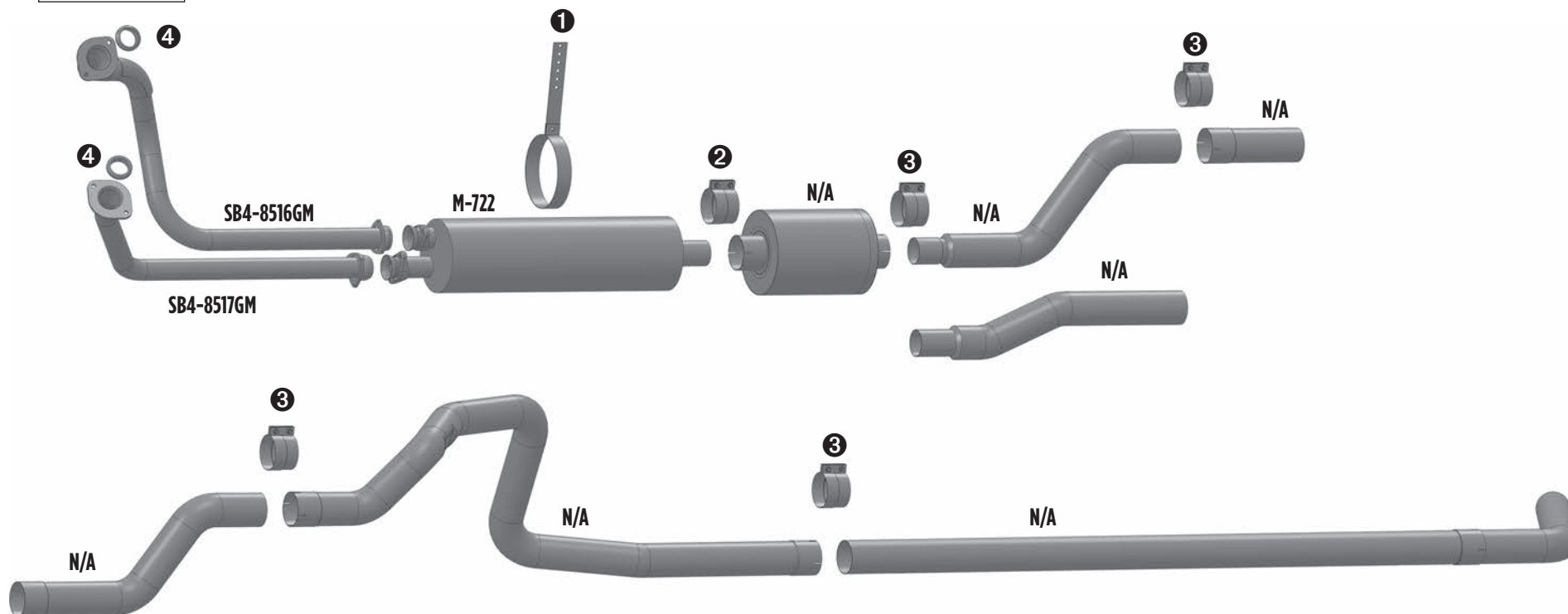
- ① RMH-85
- ② WFC-3SS
- ③ WFC-4SS
- ④ G-BB1



BB126 - '92 - '95 8 Cyl. CV200; 366, 427 (6.0, 7.0) TBI Eng.; With Converter; Tail Pipe Exits Side of Bus Behind Rear Dual Wheels; 145", 209", 261" W.B.

Clamps

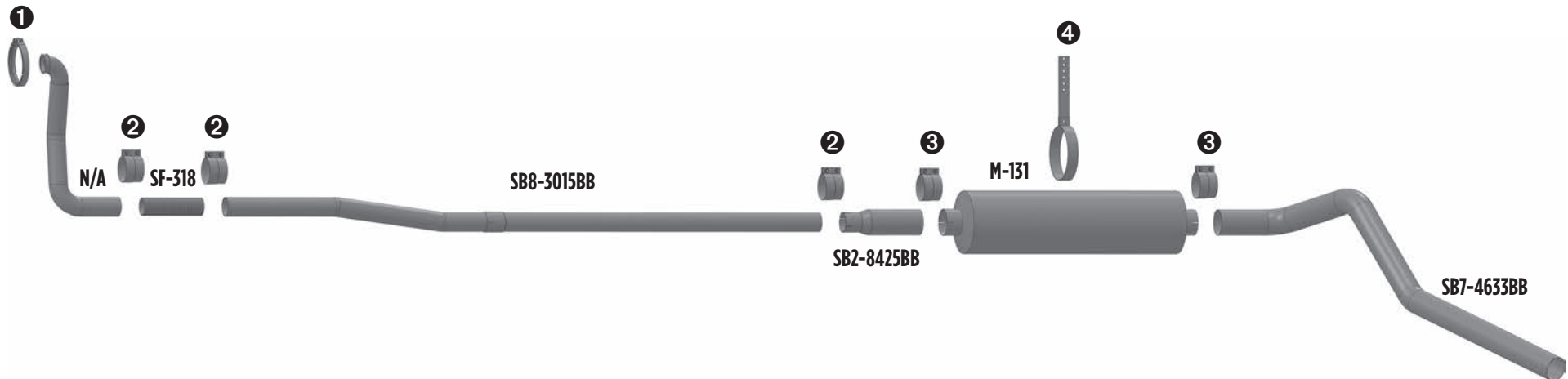
- ① RMH-85
- ② WFC-3SS
- ③ WFC-4SS
- ④ G-BB1



BB127 - '87 - '95 6 Cyl. Models with standard exhaust (Side Exit in Front of Rear Tire) TC2000; 5.9L Cummins Diesel Engine, Automatic Transmission

Clamps

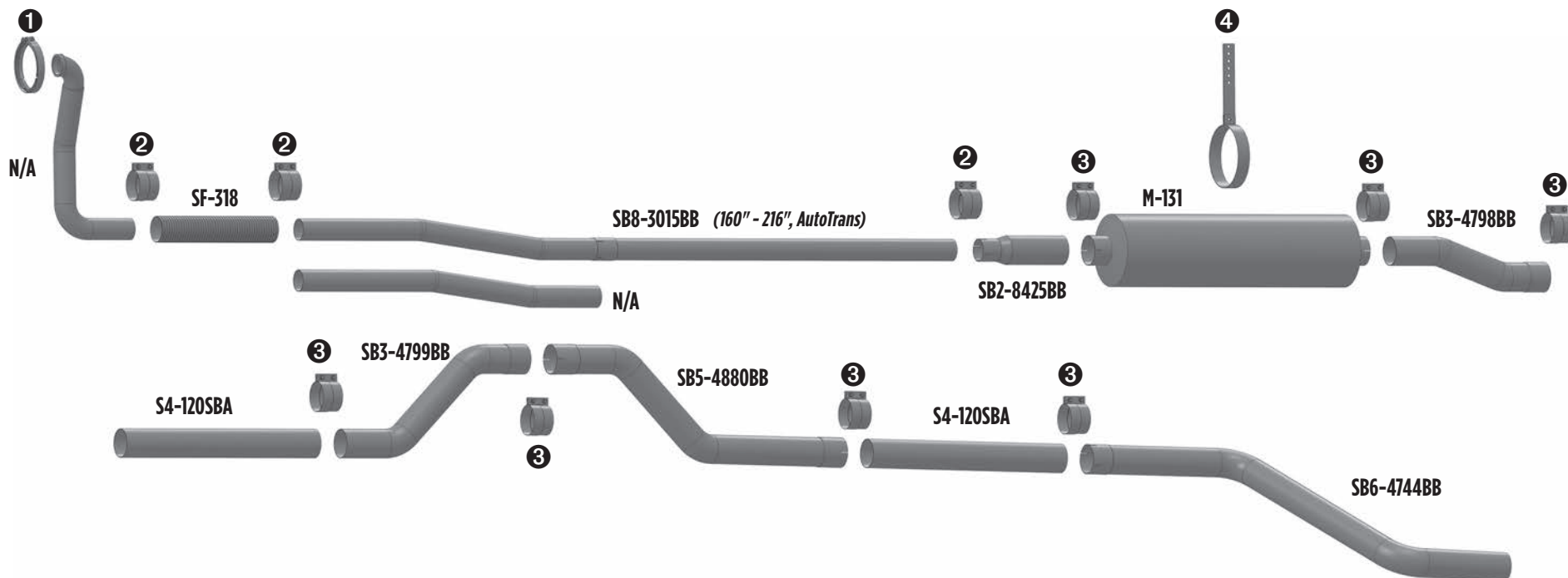
- ① VB-321C
- ② WFC-3SS
- ③ WFC-4SS
- ④ RMH-9



BB128 - '87 - '95 6 Cyl. Models with Extended Tailpipe (Rear Outlet) TC2000; 5.9L Cummins Diesel Engine; 132", 160"-216" W.B., Automatic Transmission

Clamps

- ① VB-321C
- ② WFC-3SS
- ③ WFC-4SS
- ④ RMH-9

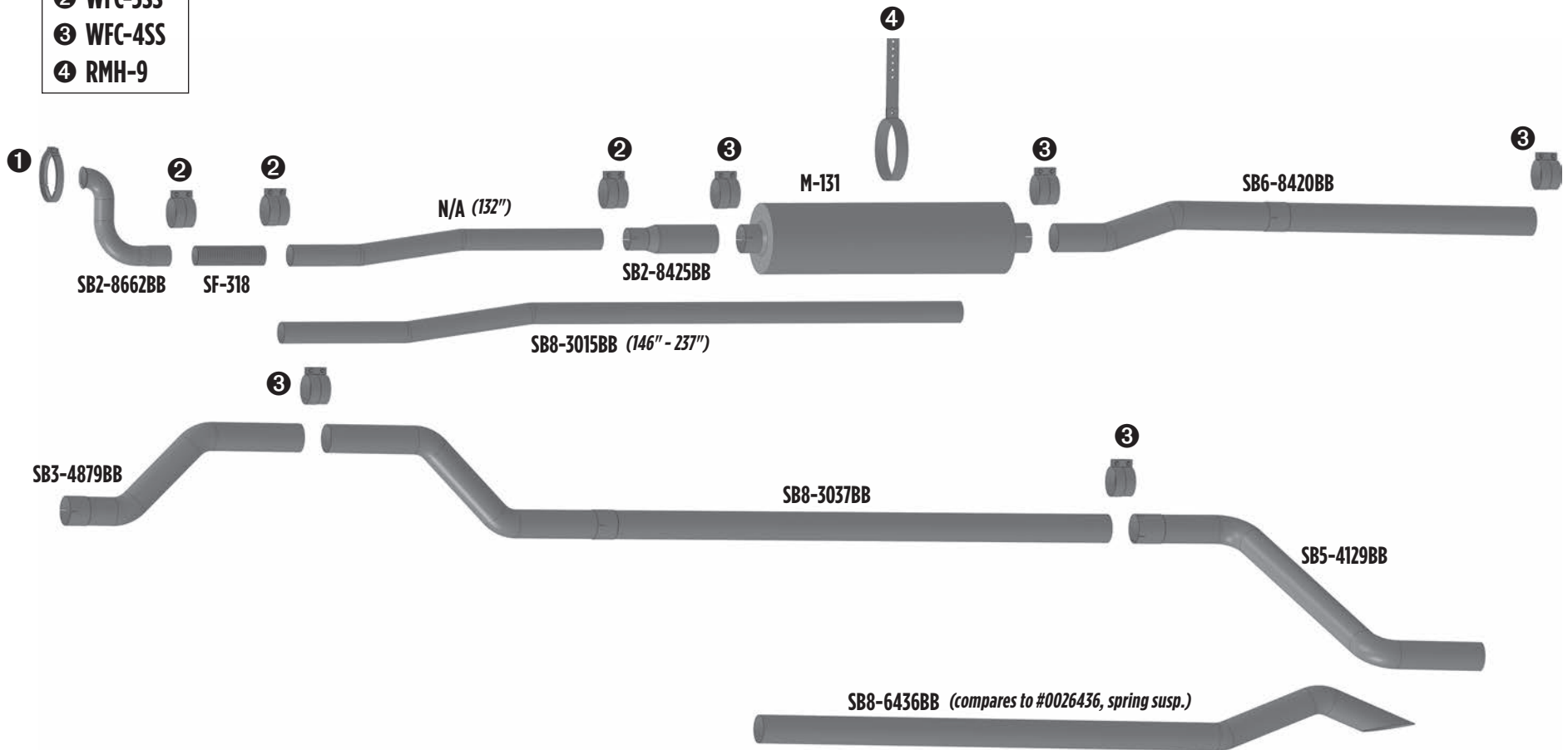


BLUEBIRD SCHOOL BUS APPLICATIONS

**BB129 - '88 - '94 6 Cyl. TC2000 w/ 6BTA; 5.9L Turbo Diesel; Rear Exit Tail Pipe; Side Mounted Fuel Tank;
132", 146"-195", 216"-237" W.B.**

Clamps

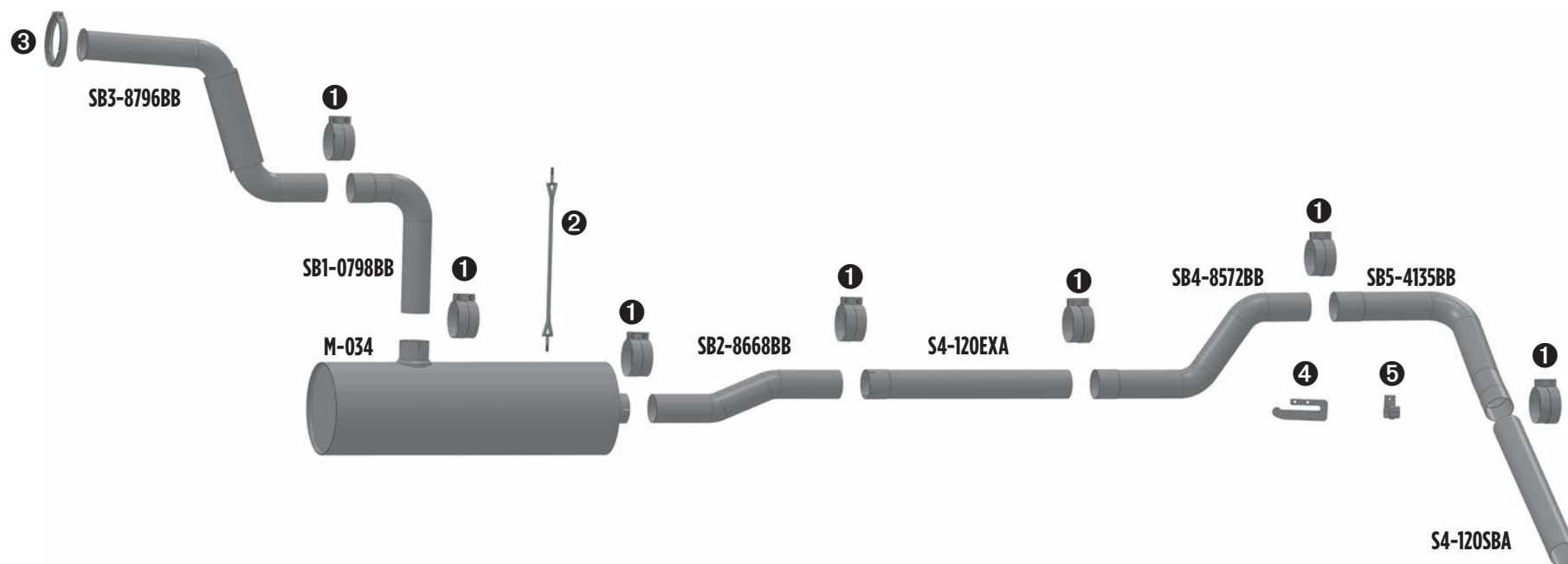
- ① VB-321C
- ② WFC-3SS
- ③ WFC-4SS
- ④ RMH-9



BB130 - '92 - '93 6 Cyl. GMC-Bluebird 3116 Caterpillar Engine

Clamps

- ① WFC-4SS
- ② H-BBM1
- ③ VB-461D
- ④ H-BBP1
- ⑤ H-BBP2

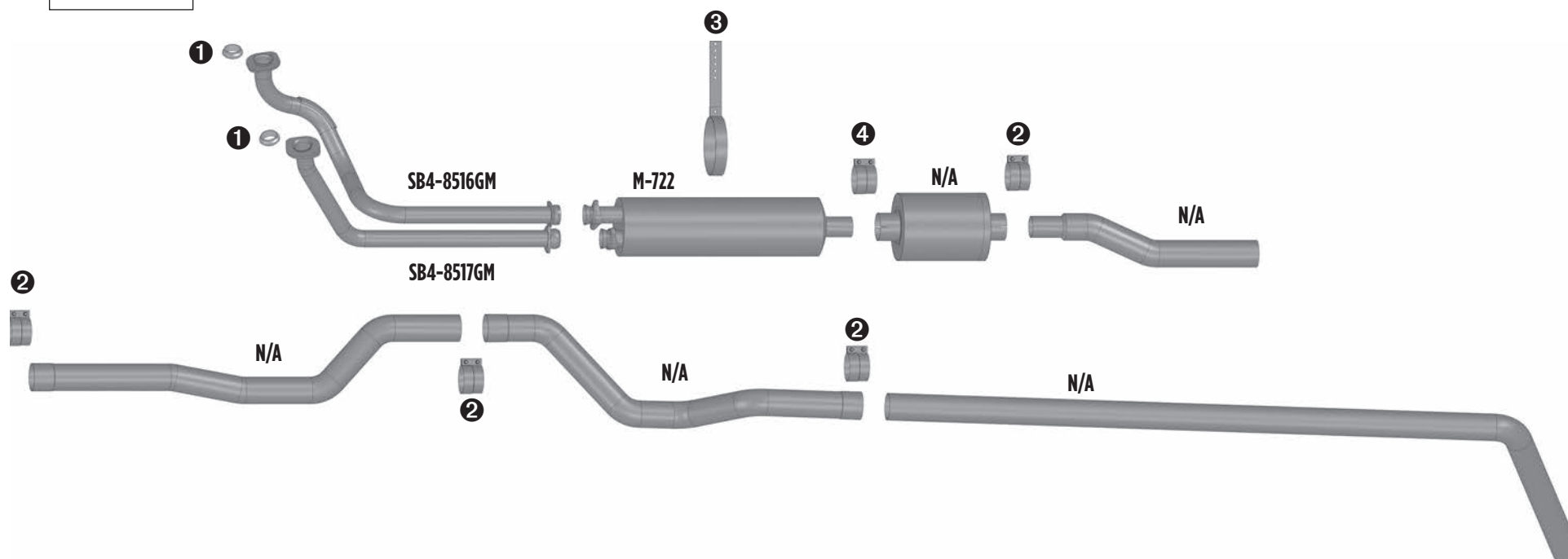


BLUEBIRD SCHOOL BUS APPLICATIONS

BB134 - '88 - '91 8 Cyl. All models w/366 C.I.D. Engine w/ Converter; 254", 274" W.B.

Clamps

- ① GBB-1
- ② WFC-4SS
- ③ RMH-85
- ④ WFC-3SS



UNIVERSAL NEW PARTS 2013

	GRAND ROCK PART NO.	OE PART NO.	DESCRIPTION	2 PIECE PIPE 2nd PART NEEDED
	SB3-5313BB	0085313	04 TO 09 BLUEBIRD VISION ALL AMERICAN TAILPIPE UNDER BUMPER; 4" ALZ 2-BEND ID/OD (IN LISTING BB103)	
	SB3-9863BB	0099863	06 AND UP ENGINE FORWARD BB ISB02 TURBO PIPE, VISION (IN LISTING BB103)	
	SB5-4174BB	0021071	BLUEBIRD FRONT OVER AXLE PIPE; H.D. EXHAUST; BLUE BIRD	
	SB4-8566BB	1522549	BLUEBIRD FRONT PIPE; H.D. EXHAUST PIPE; BLUEBIRD	

CHEVROLET/GMC SCHOOL BUS APPLICATIONS



CH195 - '07 - '10 Chevy/GMC G3500 Tailpipe & Diffuser Tip

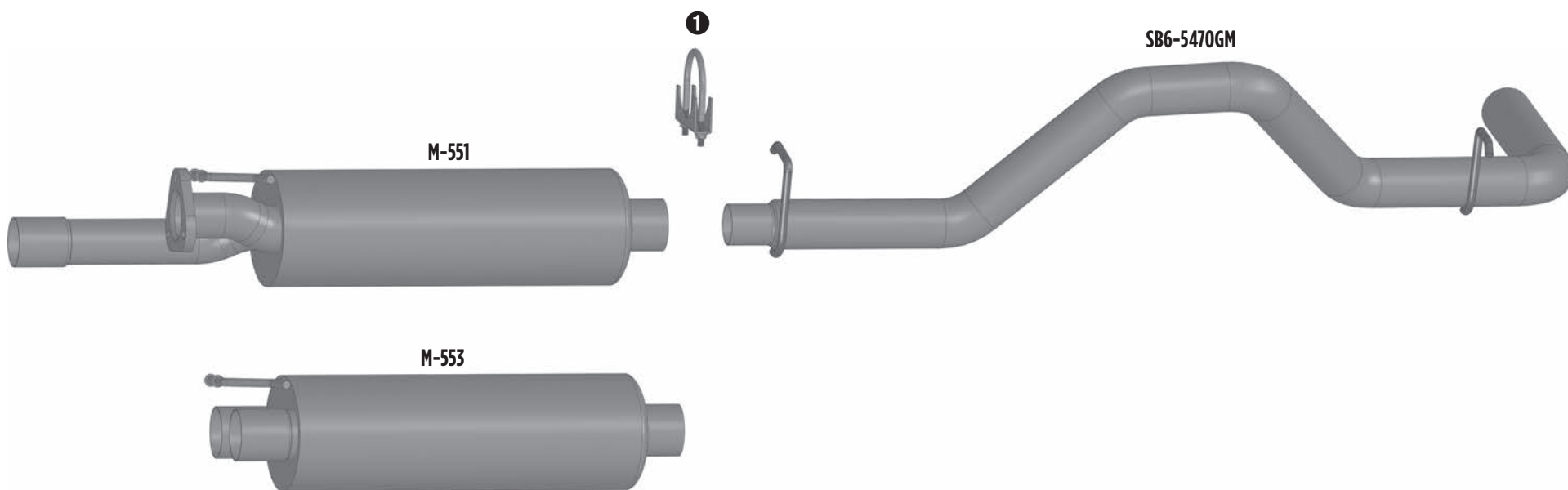


CHEVROLET/GMC SCHOOL BUS APPLICATIONS

CH196 - '03-'06 8 Cyl. Chevy GMC G3500 Van w/ 4.8L or 6.0L Engine 135" - 155" W.B.

Clamps

① RB-275ZN

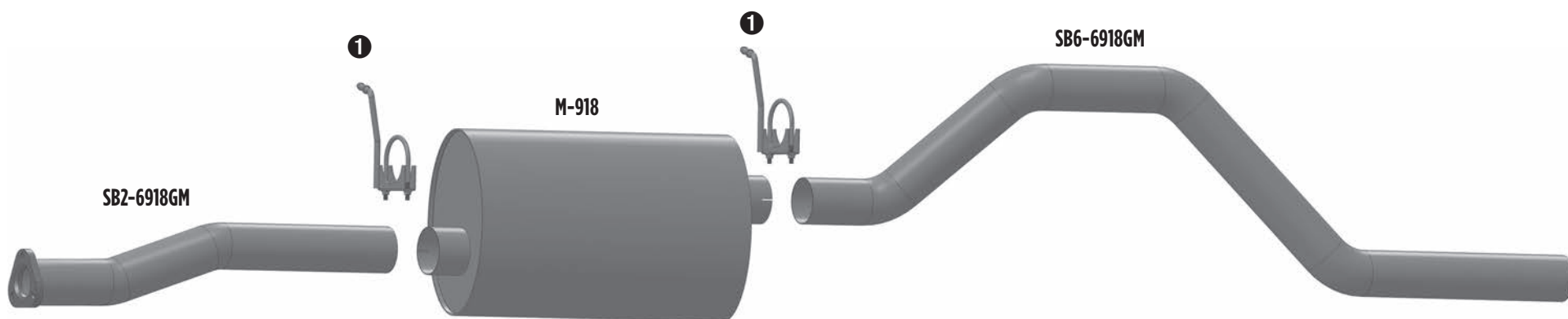


CHEVROLET/GMC SCHOOL BUS APPLICATIONS

CH197 - '05 - '07 8 Cyl. Chevy/GMC G3500 Van w/ Duramax 6.6L Diesel 135" W.B.

Clamps

① GM-05FH

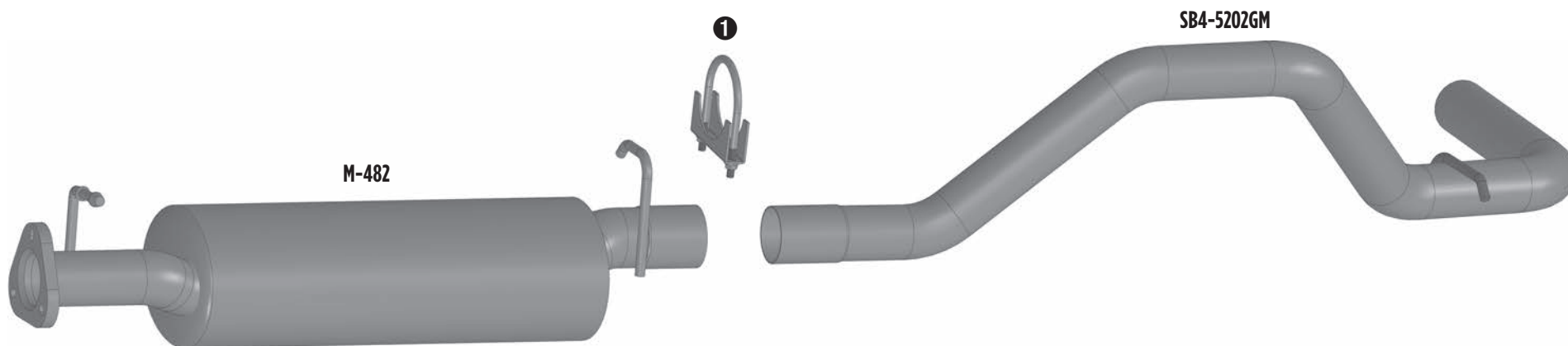


CHEVROLET/GMC SCHOOL BUS APPLICATIONS

CH198 - '98 - '02 8 Cyl. Chevy/GMC 63500 Van w/ 6.5L Diesel 135" W.B.

Clamps

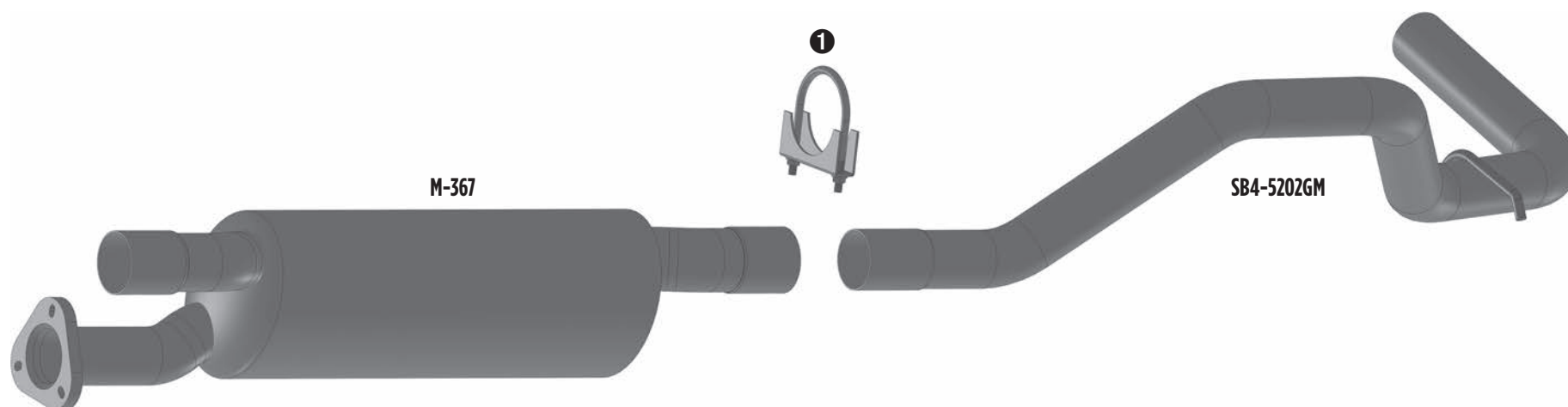
❶ RB-275ZN



CHEVROLET/GMC SCHOOL BUS APPLICATIONS

CH199 - '97 - '01 8 Cyl. Chevy GMC G3500 Van w/ 5.7L Eng. 135" W.B.

Clamps
① RB-275ZN

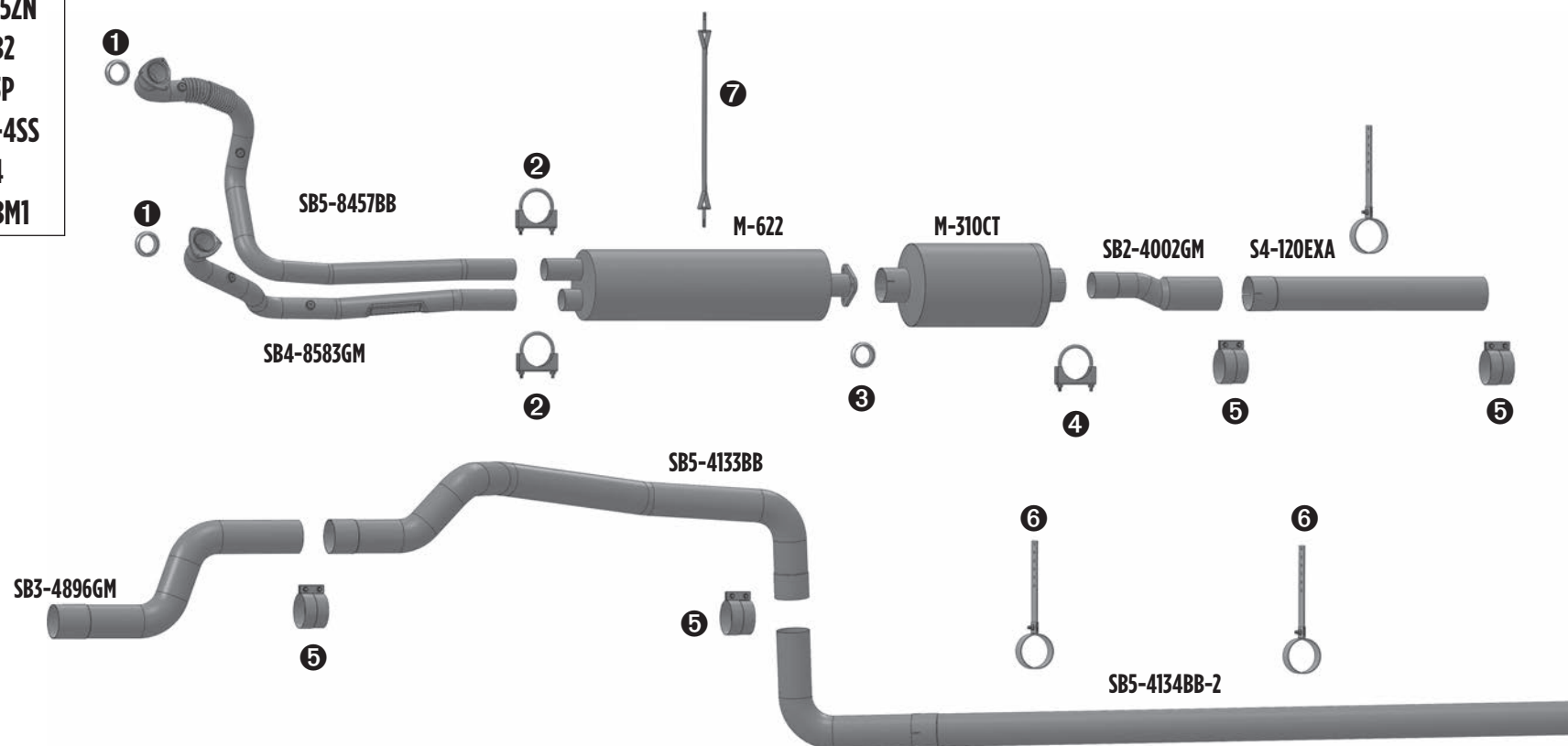


CHEVROLET/GMC SCHOOL BUS APPLICATIONS

CH200 - '98 - '02 8 Cyl. CV200 GMC B7 Conventional Chassis w/ 454-502 Engine

Clamps

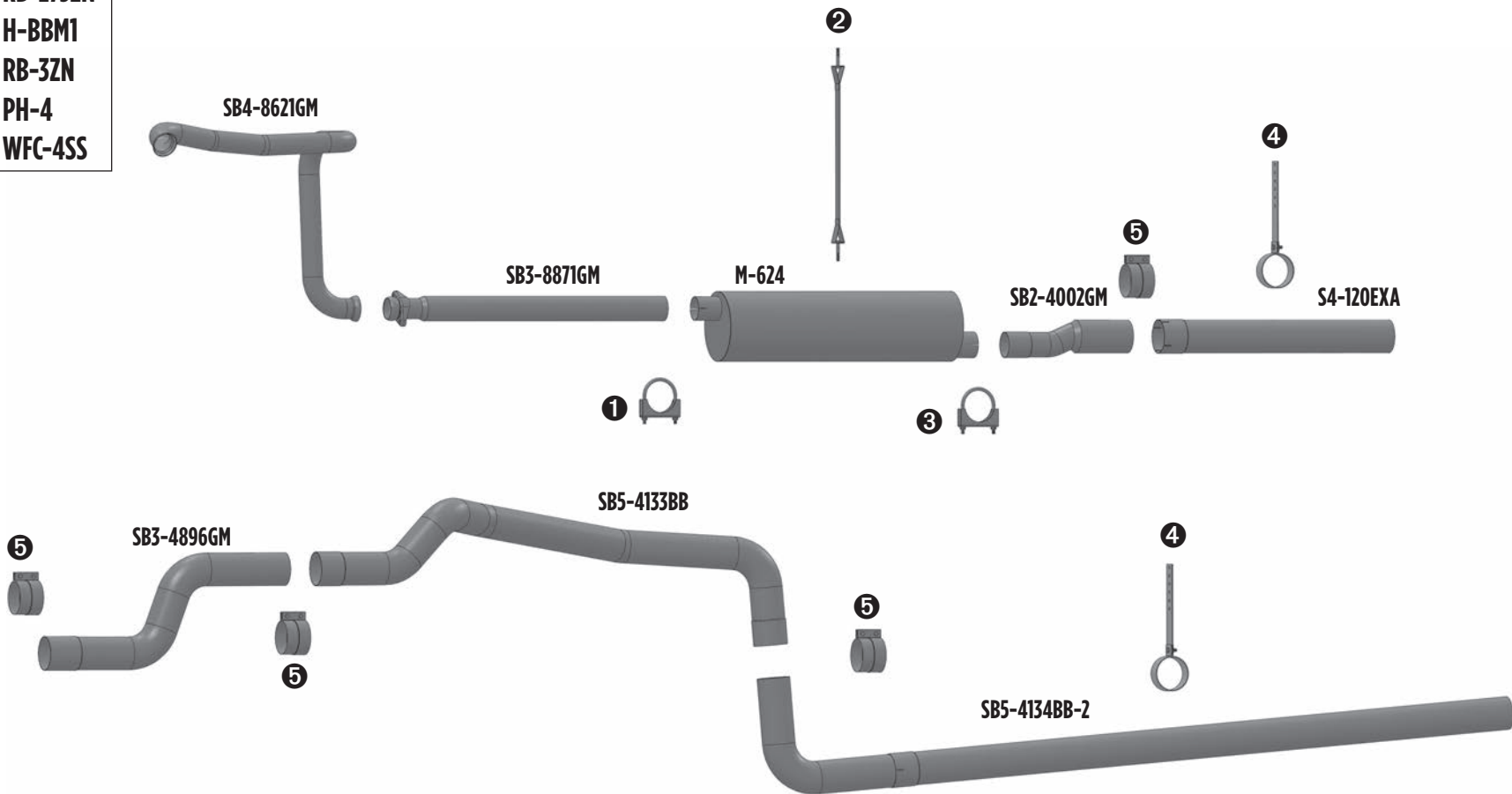
- ① G-GM1
- ② RB-25ZN
- ③ G-BB2
- ④ R0-3P
- ⑤ WFC-4SS
- ⑥ PH-4
- ⑦ H-BBM1



CH201 - '97 - '02 8 Cyl. GMC Kodiak Topkick Chassis w/ 6.5L Turbo Diesel Engine

Clamps

- ① RB-275ZN
- ② H-BBM1
- ③ RB-3ZN
- ④ PH-4
- ⑤ WFC-4SS

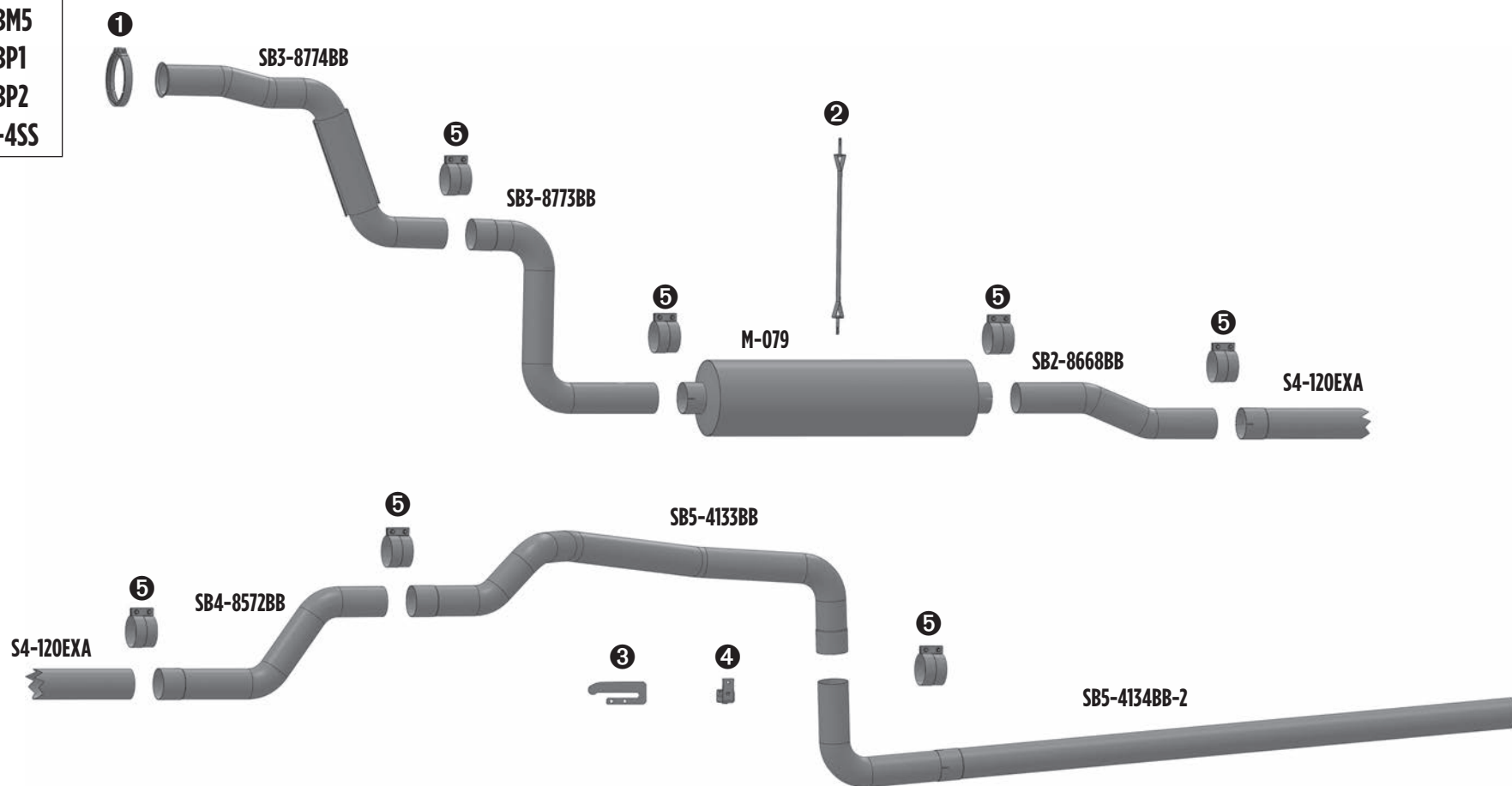


CHEVROLET/GMC SCHOOL BUS APPLICATIONS

CH202 - '98 - '01 6 Cyl. 3126 Cat., CV200; GMC B7 Conventional Chassis

Clamps

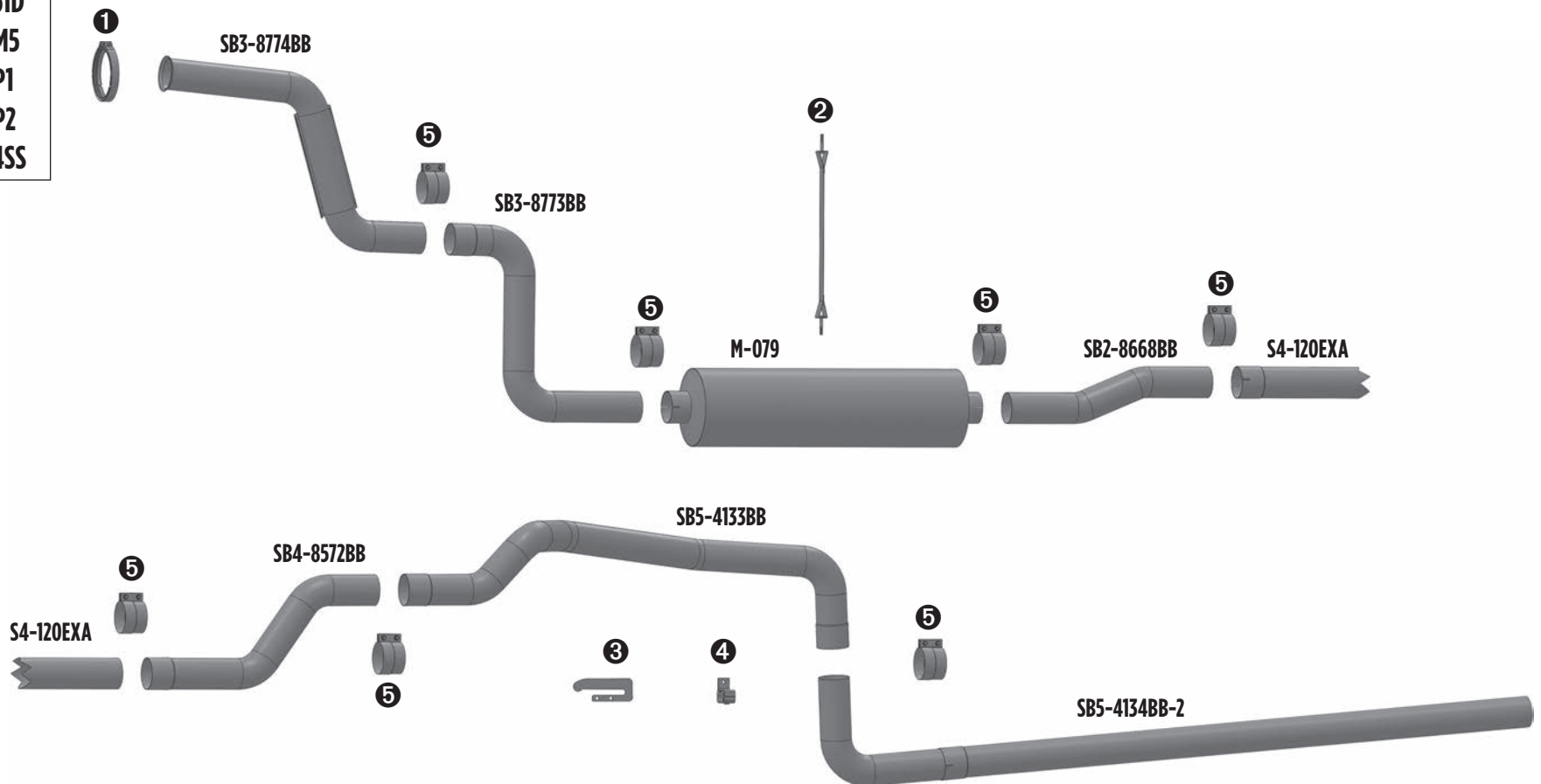
- ① VB-461D
- ② H-BBM5
- ③ H-BBP1
- ④ H-BBP2
- ⑤ WFC-4SS



CH203 - '94 - '98 6 Cyl. 3116 Cat., CV200; GMC B7 Conventional Chassis

Clamps

- ① VB-461D
- ② H-BBM5
- ③ H-BBP1
- ④ H-BBP2
- ⑤ WFC-4SS

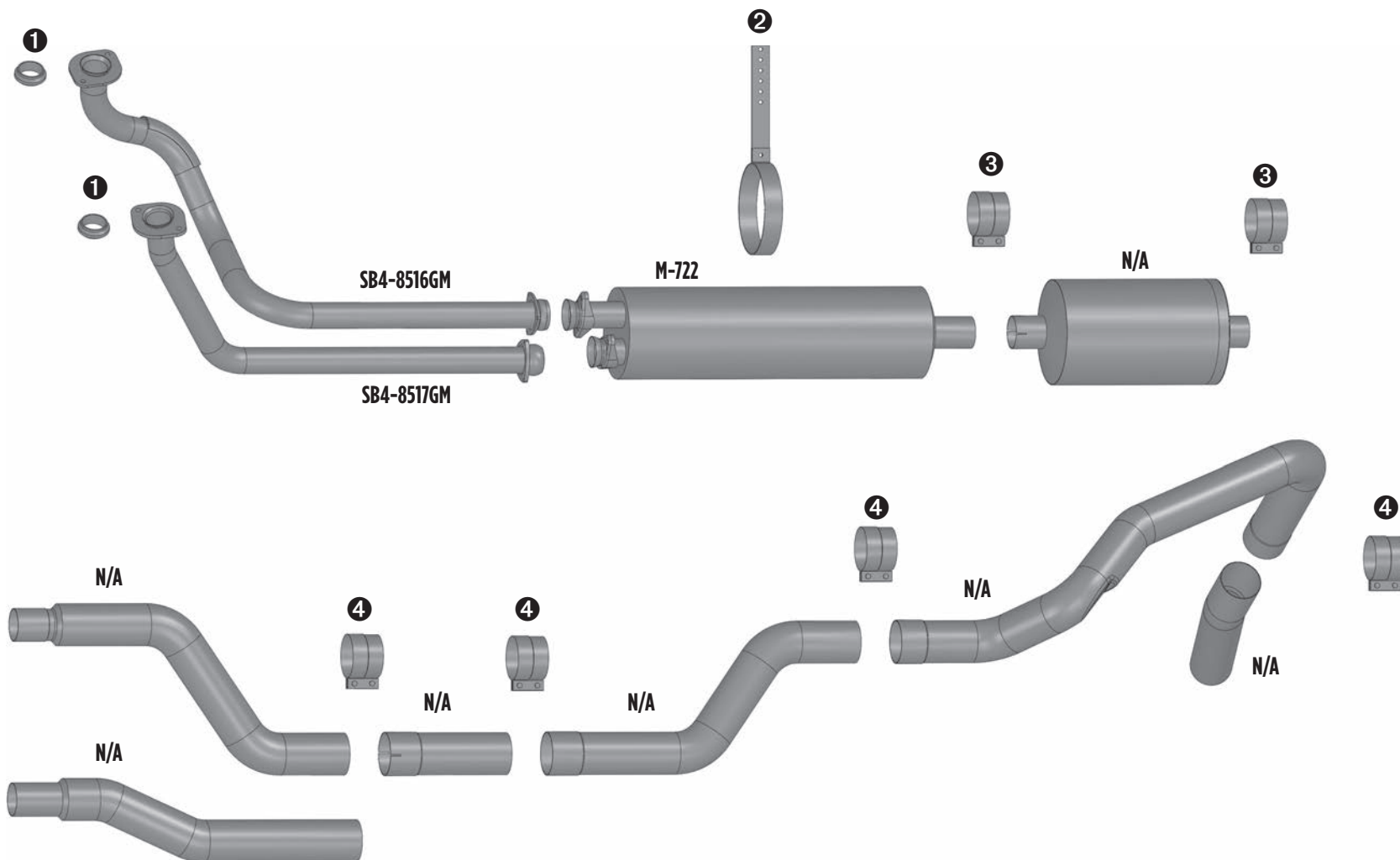


CHEVROLET/GMC SCHOOL BUS APPLICATIONS

CH204 - '92 - '95 8 Cyl. B7; 366, 427 (6.0, 7.0) TBI Eng.; With Converter; Tail Pipe Exits Side of Bus Behind Rear Wheel; 145", 209" & 261" W.B.

Clamps

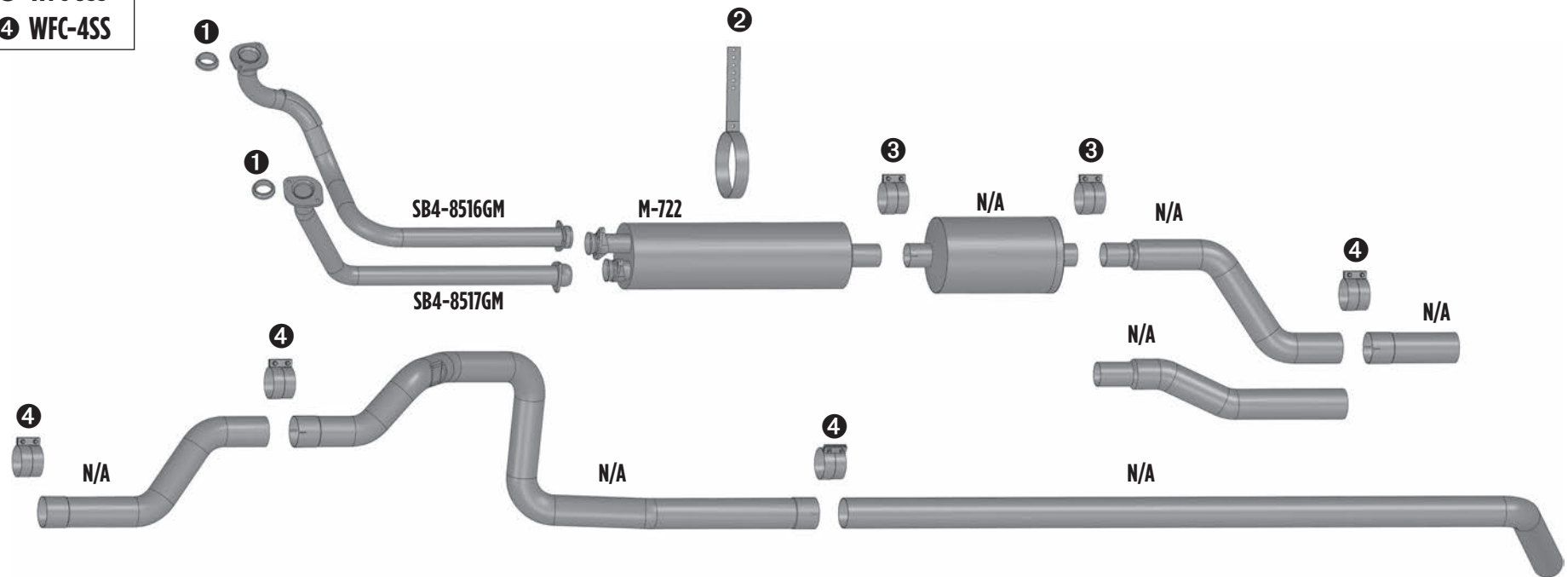
- ① G-BB1
- ② RMH-85
- ③ WFC-3SS
- ④ WFC-4SS



CH205 - '92 - '95 8 Cyl. B7; 366, 427 (6.0, 7.0) TBI Eng.; With Converter; Tail Pipe Exits Side of Bus in Front of Rear Wheel; 145", 209" & 261" W.B.

Clamps

- ① G-BB1
- ② RMH-85
- ③ WFC-3SS
- ④ WFC-4SS

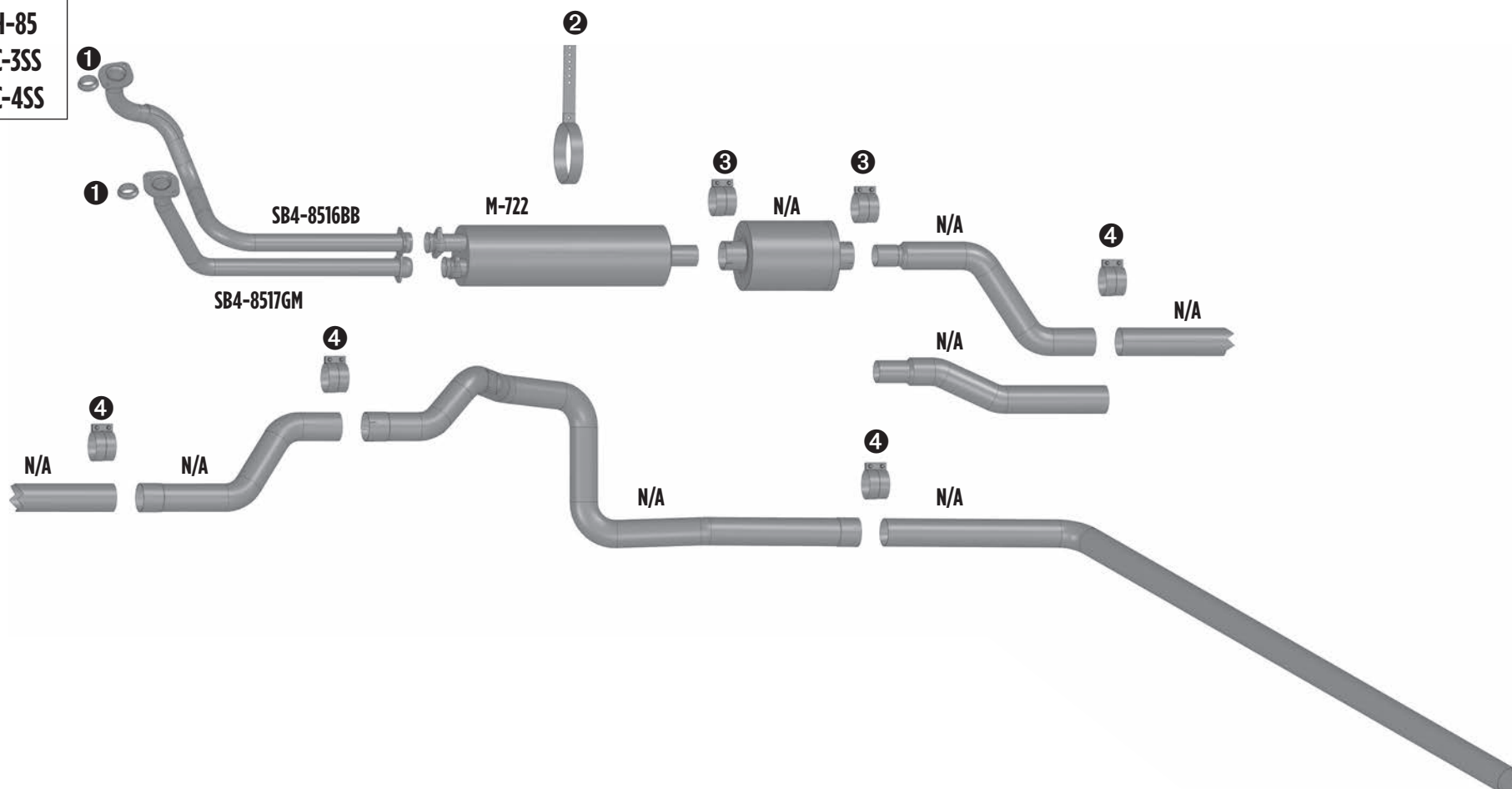


CHEVROLET/GMC SCHOOL BUS APPLICATIONS

CH206 - '92 - '95 8 Cyl. B7; 366, 427 (6.0, 7.0) TBI Eng.; With Converter; All W.B.; Tail Pipe Exits at Rear of Bus; 145", 209" & 261" W.B.

Clamps

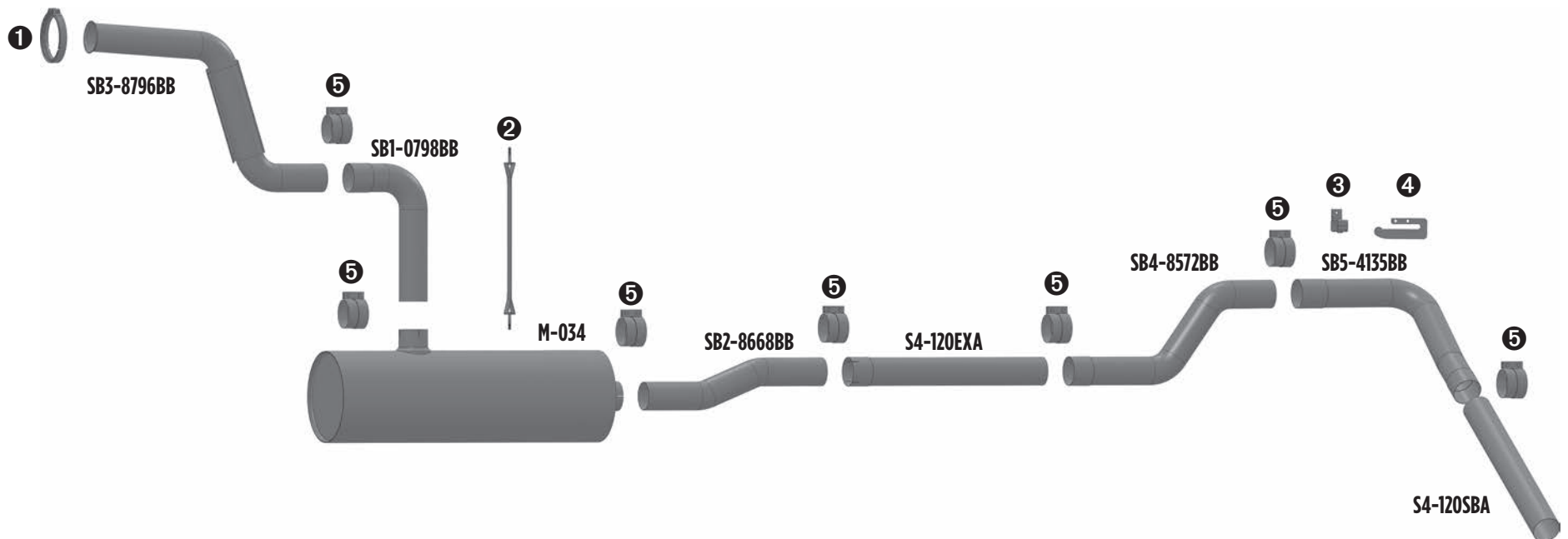
- ① G-BB1
- ② RMH-85
- ③ WFC-3SS
- ④ WFC-4SS



CH207 - '92 - '95 6 Cyl. GMC 3116 Caterpillar Engine

Clamps

- ❶ VB-461D
- ❷ H-BBM1
- ❸ H-BBP2
- ❹ H-BBP1
- ❺ WFC-4SS

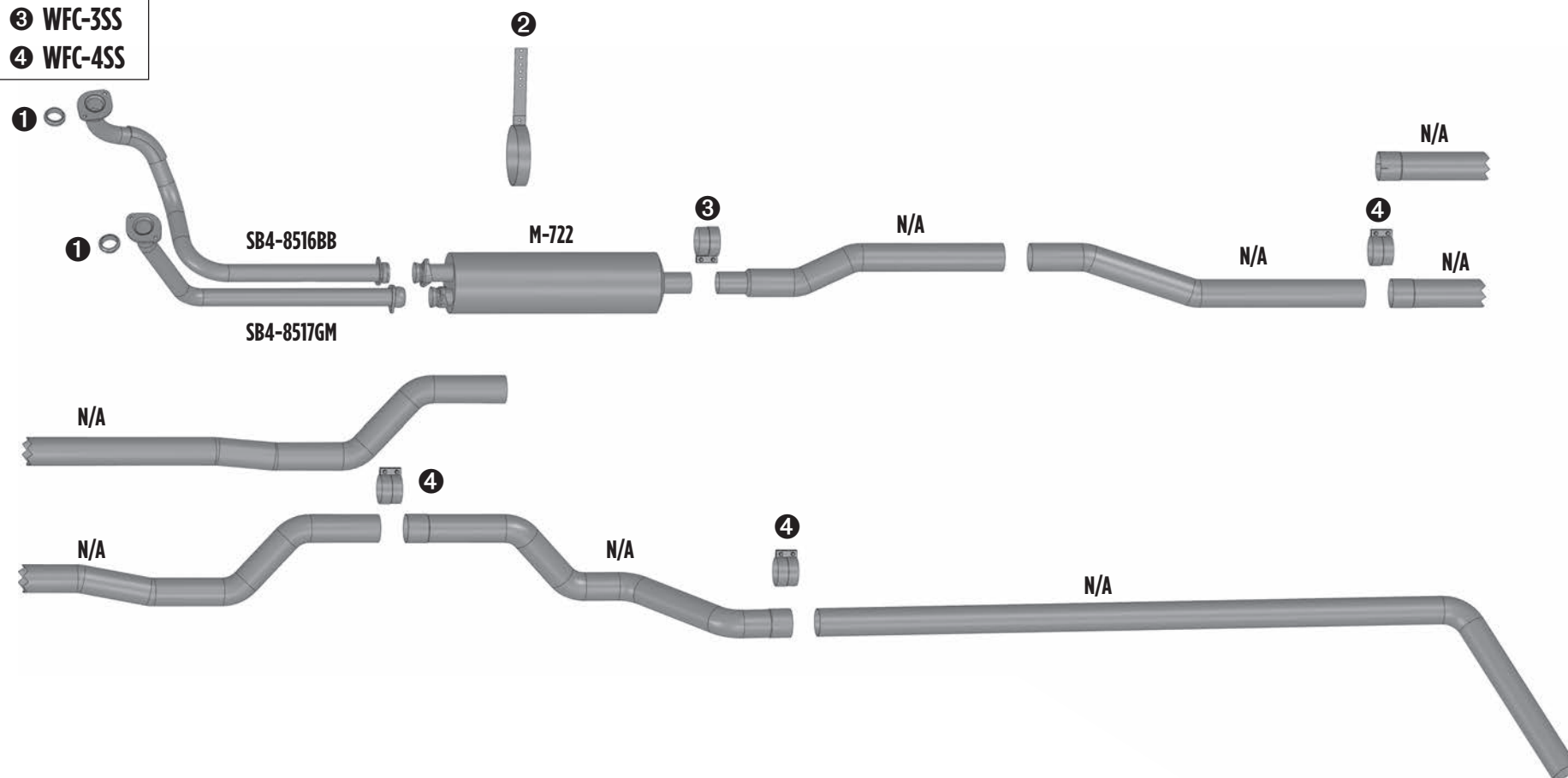


CHEVROLET/GMC SCHOOL BUS APPLICATIONS

CH208 - '85 - '91 8 Cyl. High Temperature Exhaust System B6P042; 366 TBI Engine; 254", 274" W.B.

Clamps

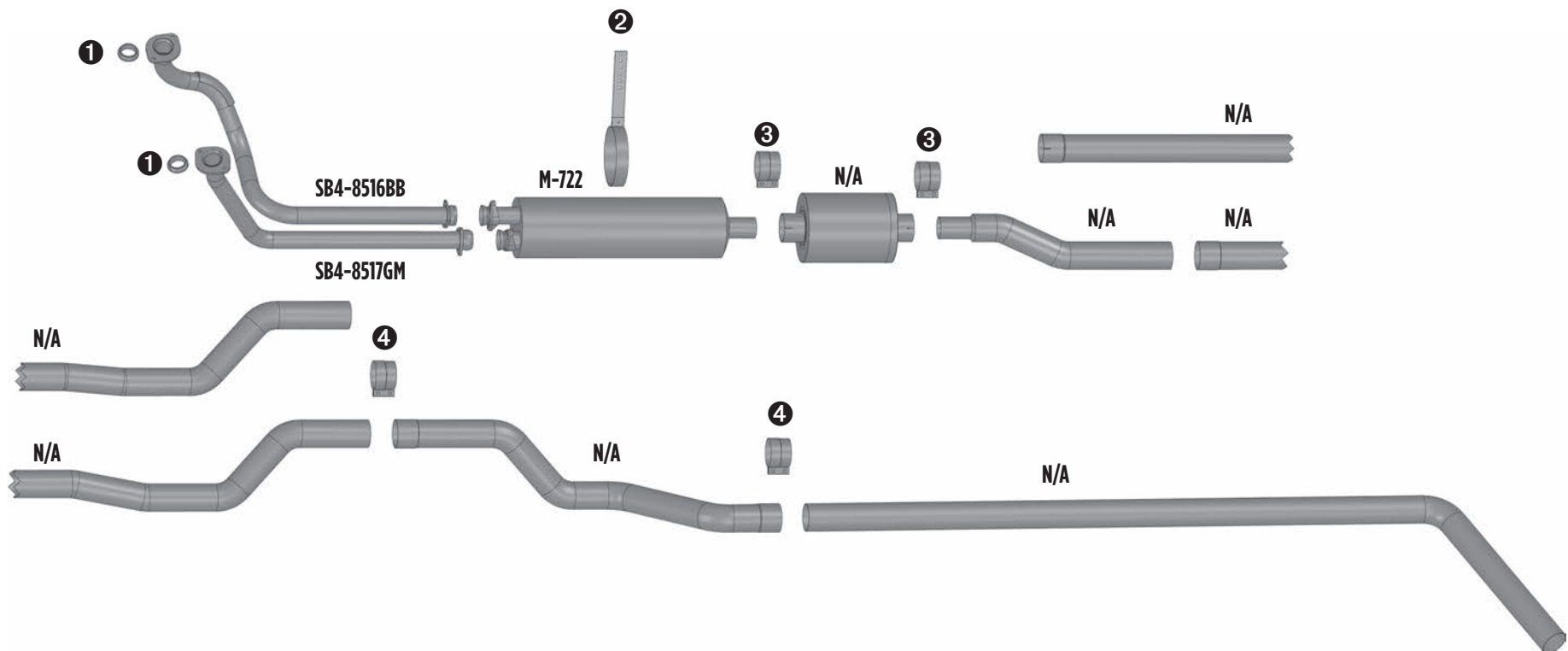
- ① G-BB1
- ② RMH-85
- ③ WFC-3SS
- ④ WFC-4SS



CH211 - '89 - '91 8 Cyl. All models w/366 C.I.D. Engine w/ Converter; 254", 274" W.B.

Clamps

- ① G-BB1
- ② RMH-85
- ③ WFC-3SS
- ④ WFC-4SS



FORD SCHOOL BUS APPLICATIONS



FD298 - '99 - '03 8 Cyl. E-350 Ford w/ 7.3L Diesel after 12-7-1998 138" - 176" W.B.



SB2-Z389GM



M-1542

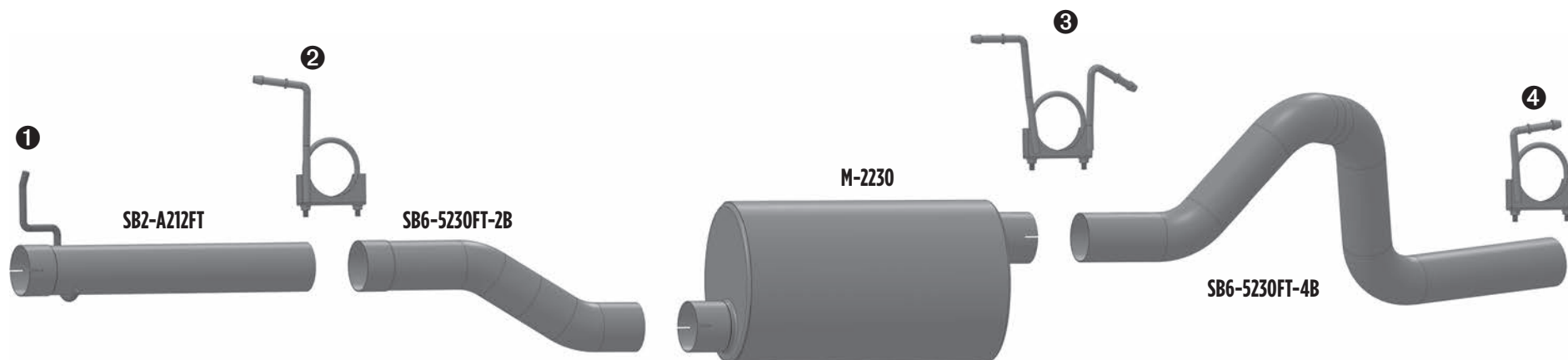


SB5-5462FT

FD299 - '04 - '06 8 Cyl. Ford E-450 Van 6.0L 158" - 176" W.B.

Clamps

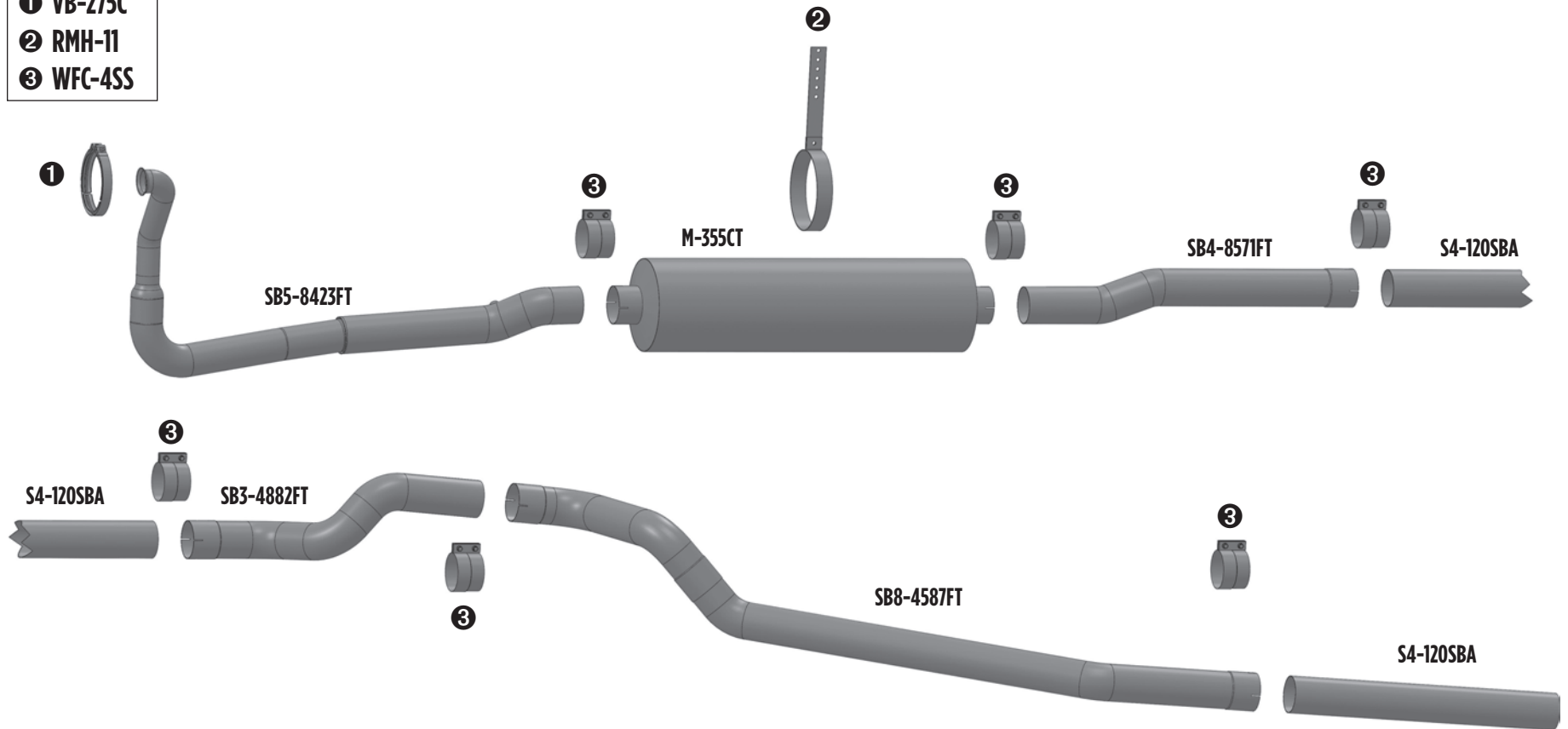
- ① SB2-A212FT-HGR
- ② H-450F
- ③ H-450M
- ④ H-450R



FD300 - '95 - '98 6 Cyl. B800, FD1060 w/ 5.9L Cummins Diesel; w/ Converter; Air Suspension; 151"-275" W.B.

Clamps

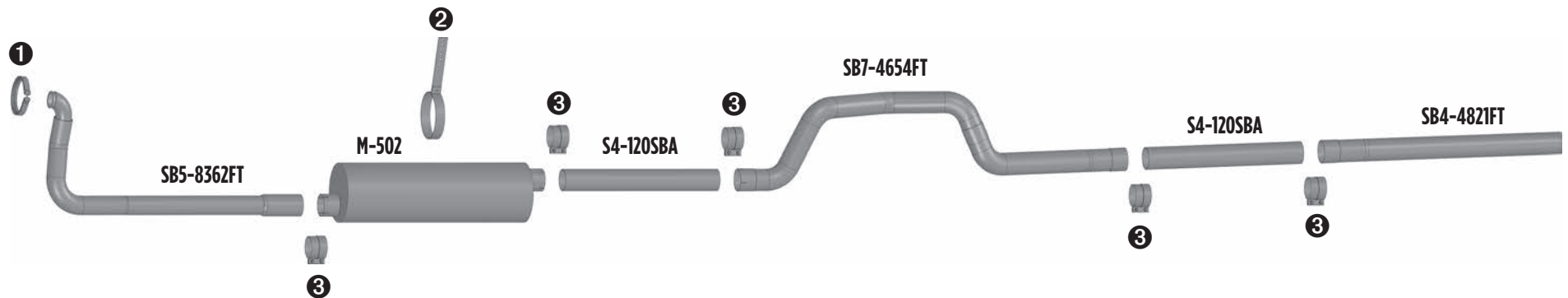
- ① VB-275C
- ② RMH-11
- ③ WFC-4SS



FD301 - '92 - '98 6 Cyl. B600, B700, FD1060 Diesel Eng.; 5.9L; 216" W.B. and Shorter; 237" W.B. and Longer

Clamps

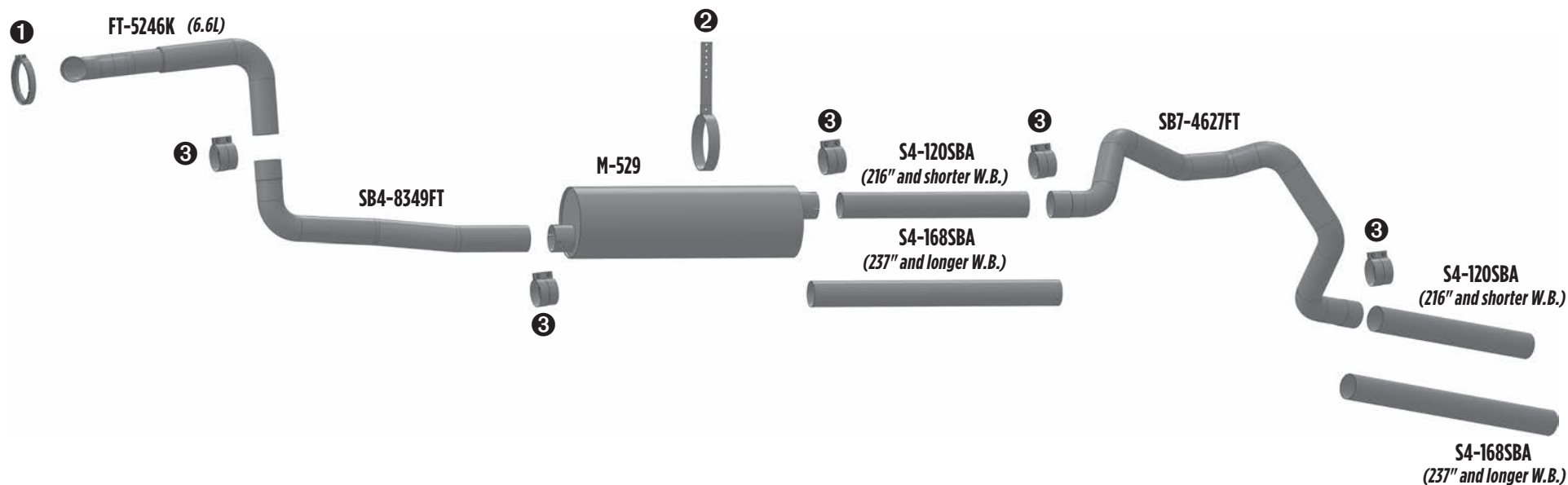
- ❶ VB-321C
- ❷ RMH-11
- ❸ WFC-4SS



FD302 - '87 - '94 6 Cyl. B600, B700; 6.6L + 7.8L Diesel Eng.; Models Built Before 11-93

Clamps

- ① VB-321C
- ② RMH-11
- ③ WFC-4SS



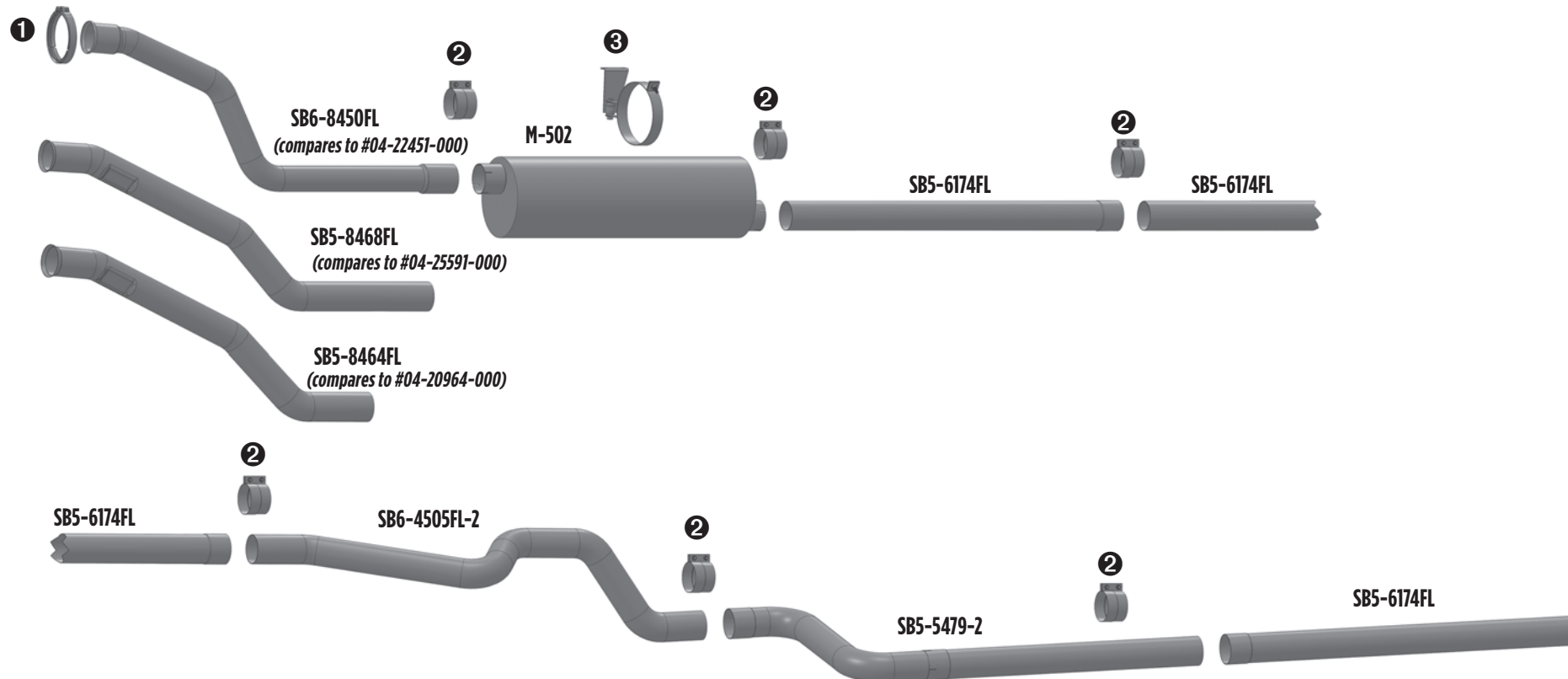
FREIGHTLINER SCHOOL BUS APPLICATIONS



FL399 - '02-'03 6 Cyl. FS65 Model w/ 900 Mercedes Diesel, Air Suspension

Clamps

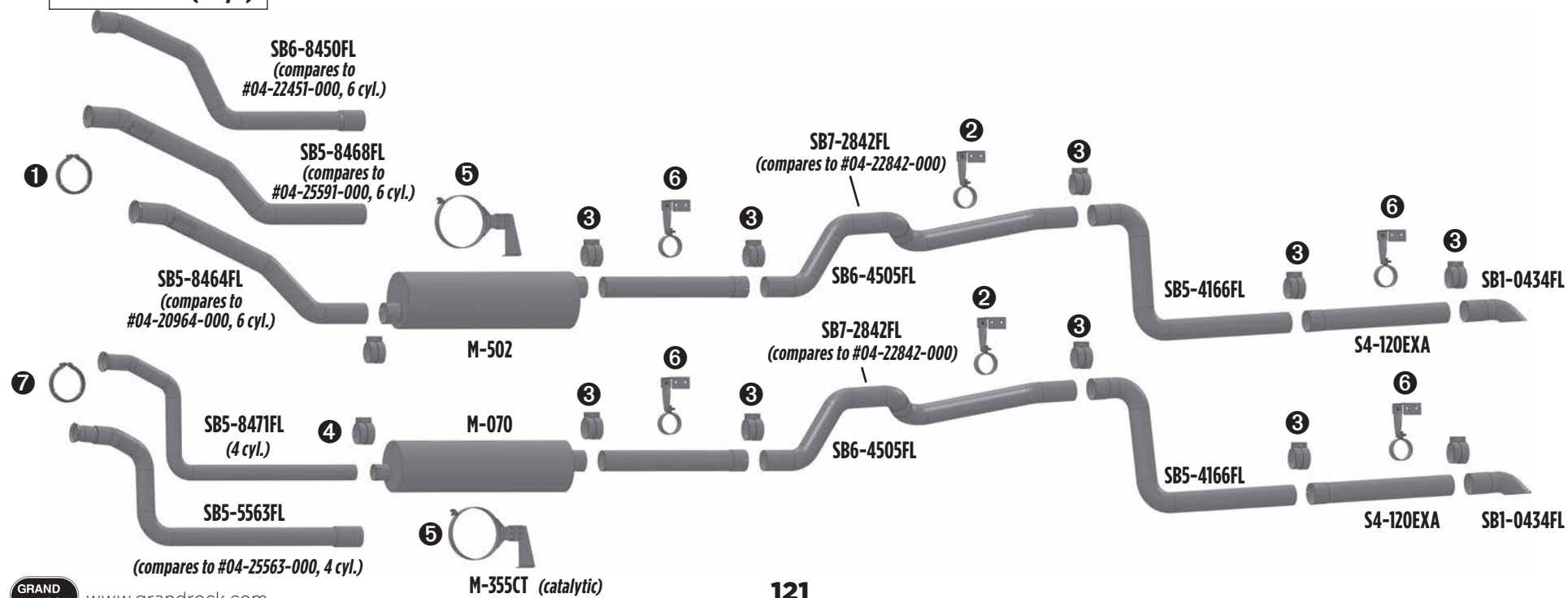
- ① VB-460MB
- ② WFC-4SS
- ③ H-FLM1



FL401 - '02 - '04 4-6 Cyl. Mercedes Engine Air Ride Suspension

Clamps

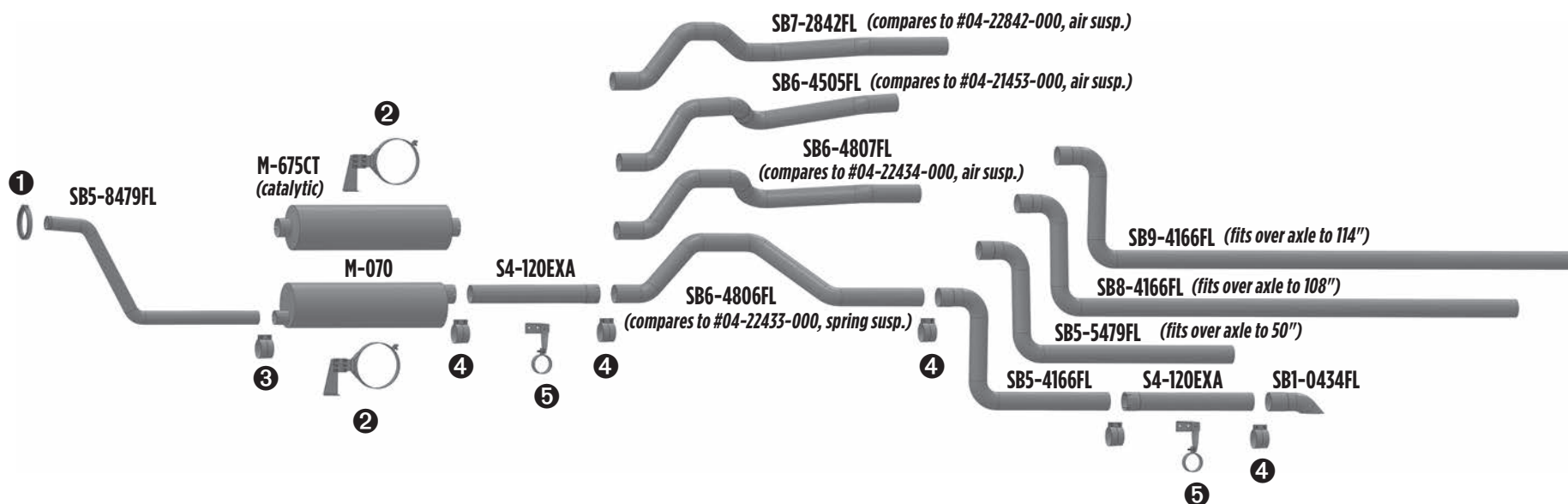
- ① VB-460M (6 Cyl.)
- ② H-FLP1
- ③ WFC-4SS
- ④ WFC-3SS
- ⑤ H-FLM1
- ⑥ H-FLP3
- ⑦ VB-390MB (4 Cyl.)



FL402 - '02 - '04 6 Cyl. B-Series Cummins Engine w/ World Trans

Clamps

- ① VB-321C
- ② H-FLM1
- ③ WFC-3SS
- ④ WFC-4SS
- ⑤ H-FLP3

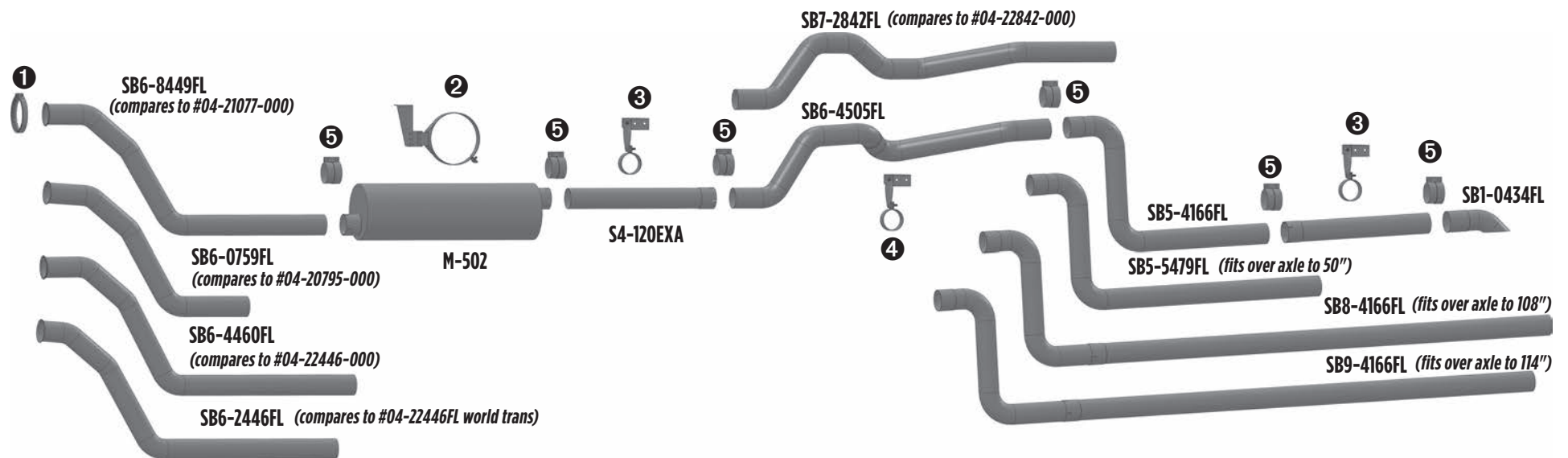


FREIGHTLINER SCHOOL BUS APPLICATIONS

FL403 - '02 - '04 6 Cyl. w/ 3126 Caterpillar Engine Air Suspension

Clamps

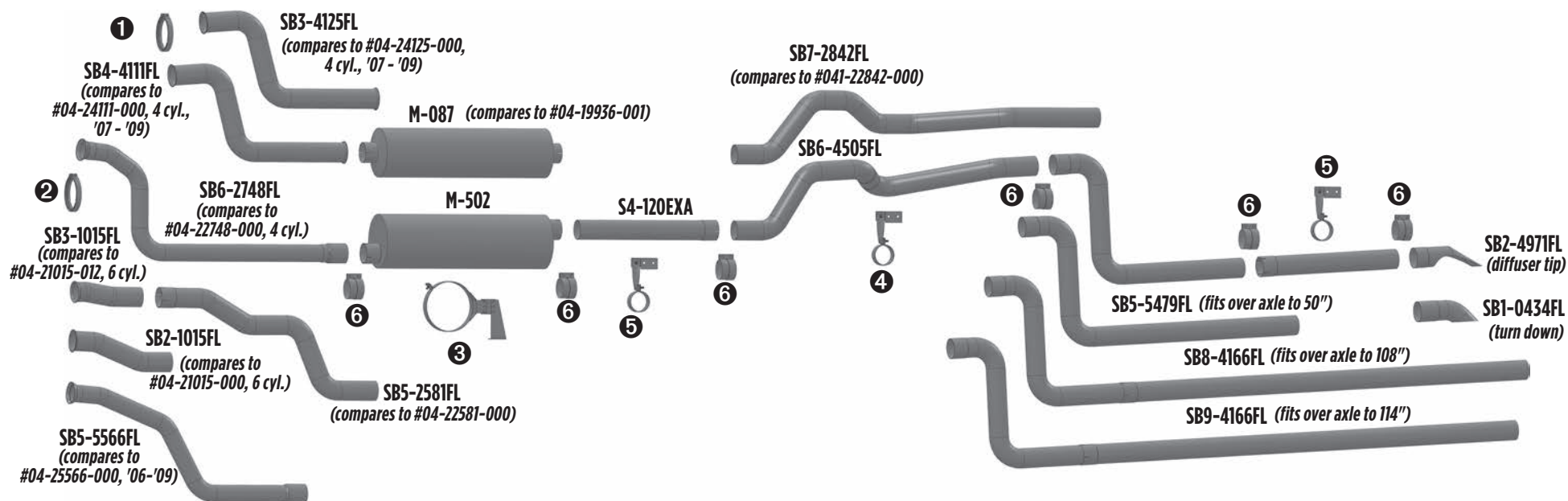
- ① VB-475C
- ② H-FLM1
- ③ H-FLP3
- ④ H-FLP1
- ⑤ WFC-4SS



FL404 - '05 - '09 4-6 Cyl. Mercedes Engine Air Suspension EXC DPF Systems

Clamps

- ① VB-390MB
- ② VB-460MB
- ③ H-FLM1
- ④ H-FLP1
- ⑤ H-FLP3
- ⑥ WFC-4SS

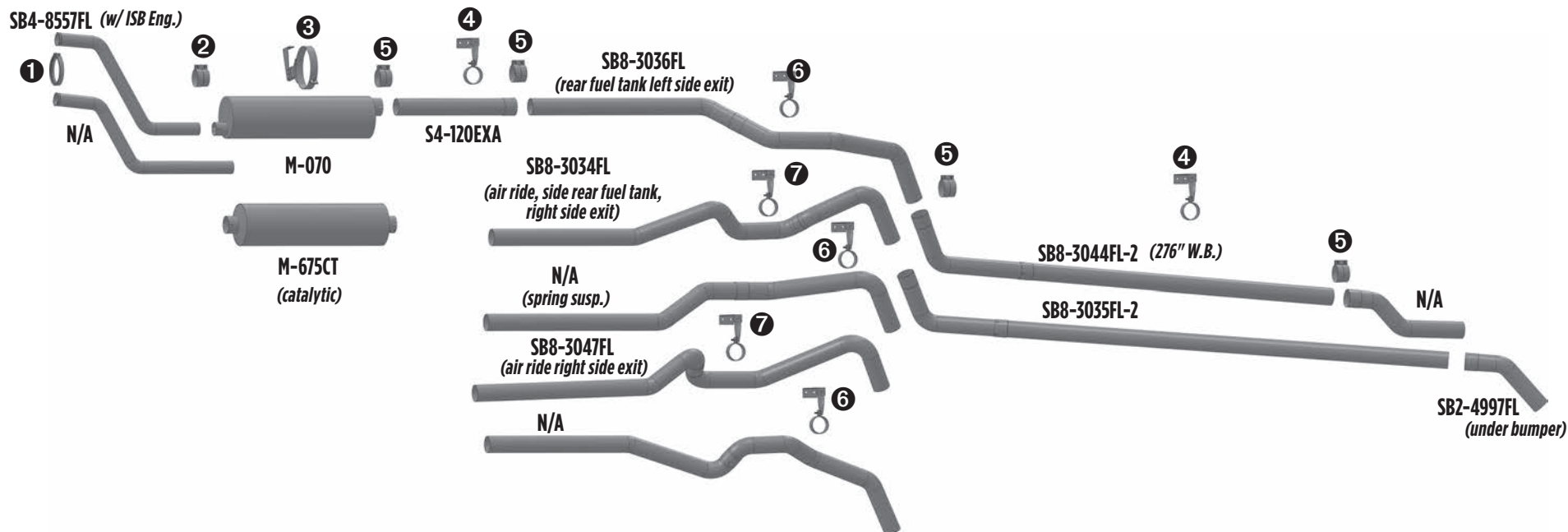


FREIGHTLINER SCHOOL BUS APPLICATIONS

FL405 - '98 - '01 6 Cyl. B Series Cummins Engine

Clamps

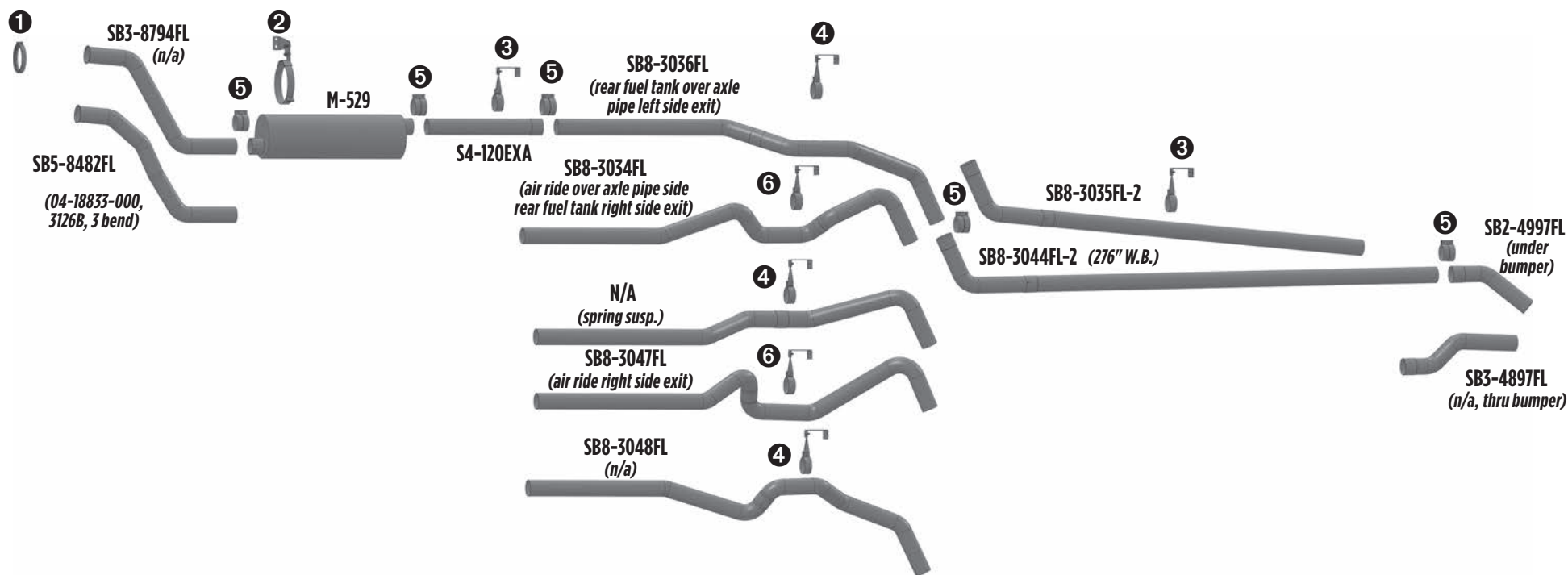
- ❶ VB-321C
- ❷ WFC-3SS
- ❸ H-FLM1
- ❹ H-FLP3
- ❺ WFC-4SS
- ❻ H-FLP4
- ❼ H-FLP5



FL406 - '98 - '01 6 Cyl. 3126 Caterpillar Engine

Clamps

- ① VB-461D
- ② H-FLM1
- ③ H-FLP3
- ④ H-FLP4
- ⑤ WFC-4SS
- ⑥ H-FLP5



UNIVERSAL NEW PARTS 2013

	GRAND ROCK PART NO.	OE PART NO.	DESCRIPTION	2 PIECE PIPE 2nd PART NEEDED
	SB11-2438FL	04-22438-005	S4-130EXA	
	SB2-5375FL		FL/IH MUFFLER OFFSET PIPE 3126 CAT MUFFLER	
	SB3-0537FL	04-20537-000	98 AND UP FREIGHTLINER TAILPIPE EXTENSION; 4" ALZ 2 BEND OD/ID	
	SB5-1454FL	04-21454-000	02-UP FREIGHTLINER OVERAXLE SPRING SUSPENSION; 4" ALZ 4 BEND PIPE OD/OD	
	SB7-2843FL	04-22843-000	02 AND UP FREIGHTLINER REAR OVERAXLE SPRING SUSPENSION; 4" ALZ 4 BEND PIPE OD/OD	

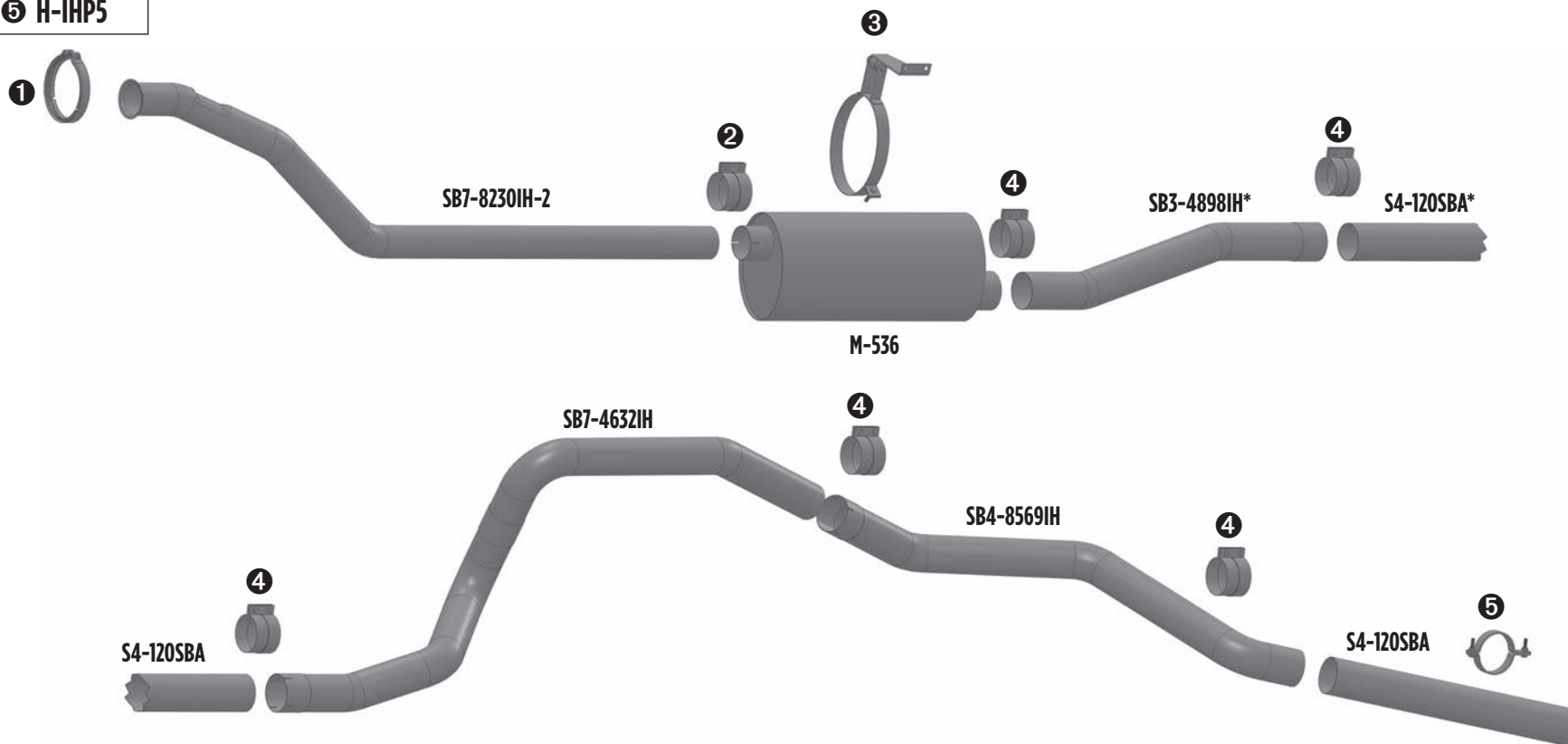
GENESIS SCHOOL BUS APPLICATIONS



GS500 - '94 - '04 6 Cyl. Model 3900 Front Engine Chassis w/ DT466 Diesel, RH Tailpipe w/ Air Suspension, 152" - 276" W.B.

Clamps

- ① VB-351I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

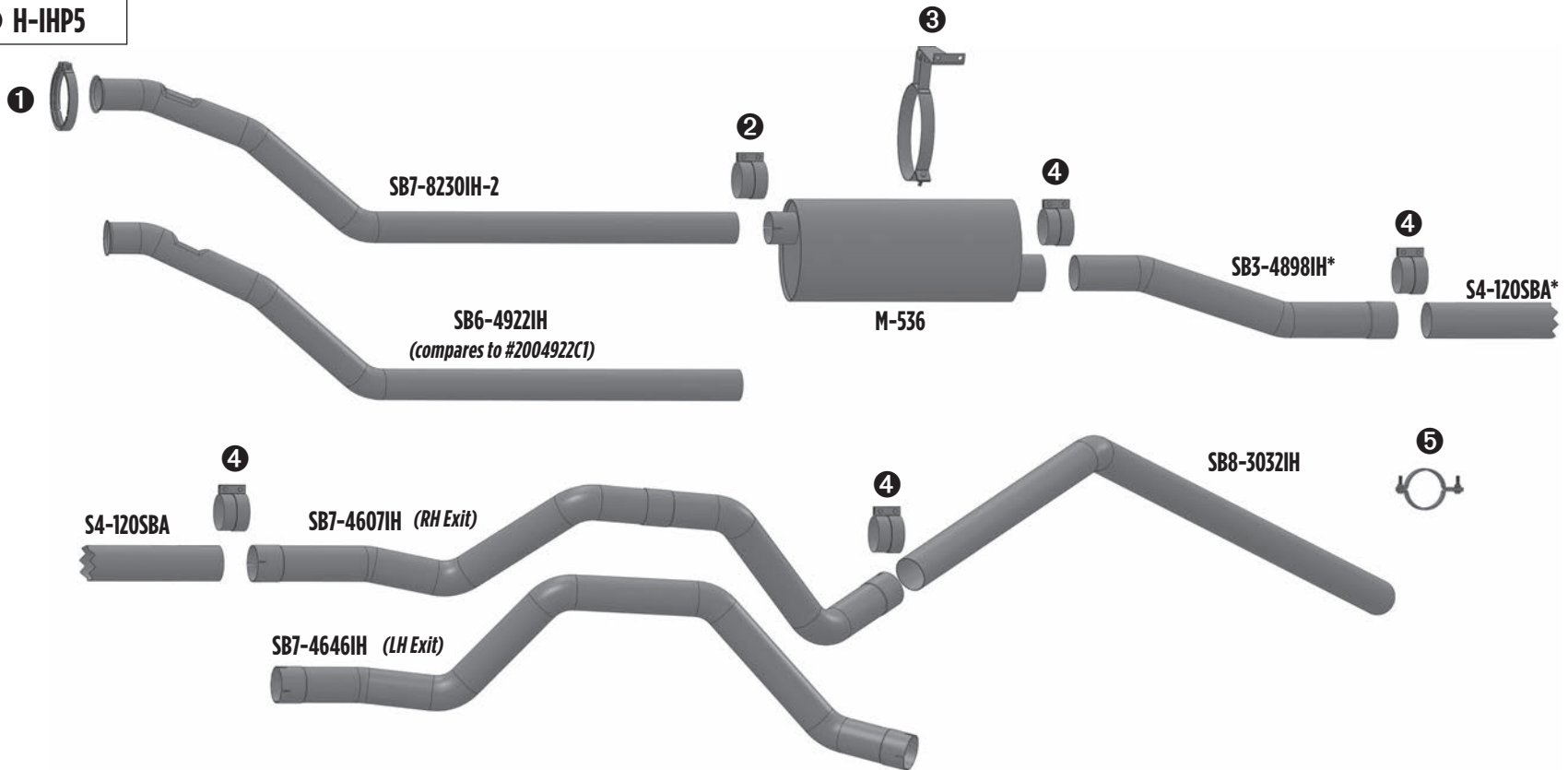


GENESIS SCHOOL BUS APPLICATIONS

**GS501 - '94 - '04 6 Cyl. Model 3900 Front Engine Chassis w/ DT466 NGD Diesel, w/o Air Suspension,
152" - 276" W.B.**

Clamps

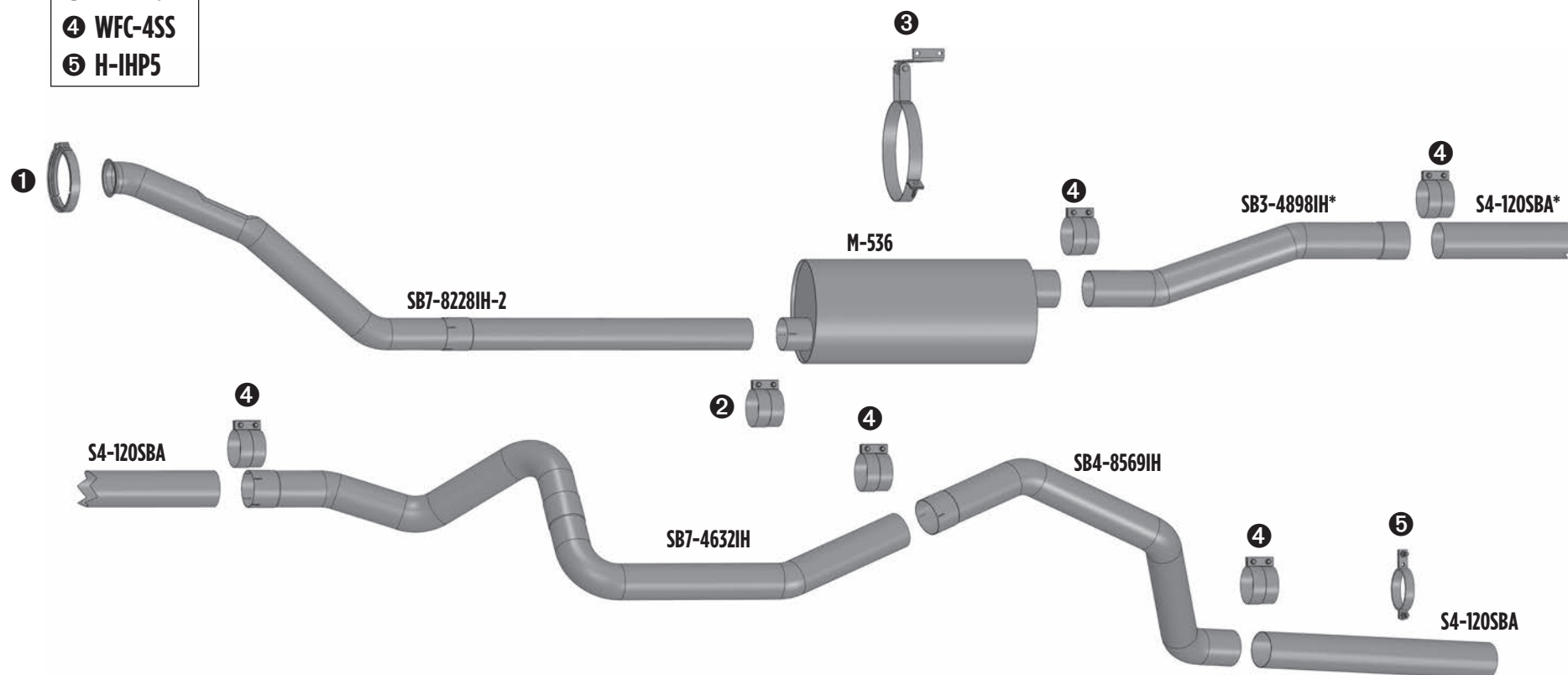
- ① VB-35II
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5



GS502 - '92 - '94 6 Cyl. Model 3900 Front Engine Chassis w/ DT360 Diesel, RH Tailpipe w/ Air Suspension, 152" - 276" W.B.

Clamps

- ① VB-351I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5



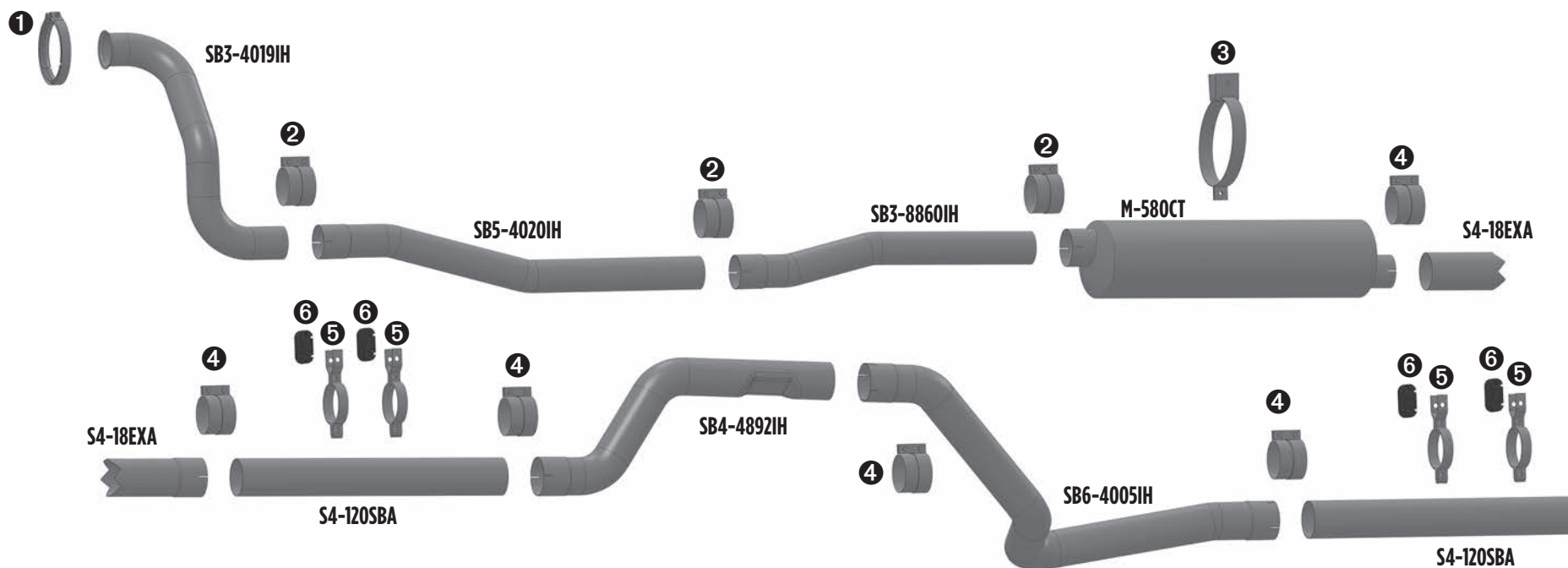
INTERNATIONAL SCHOOL BUS APPLICATIONS

**GRAND
ROCK**

INT600 - '07 - '08 6 Cyl. FE International DT-466 Engine, Right Side Exit Max Force DT

Clamps

- ① VB-351I
- ② WFC-35SS
- ③ H-IHM4
- ④ WFC-4SS
- ⑤ H-IHP3
- ⑥ H-IHP1

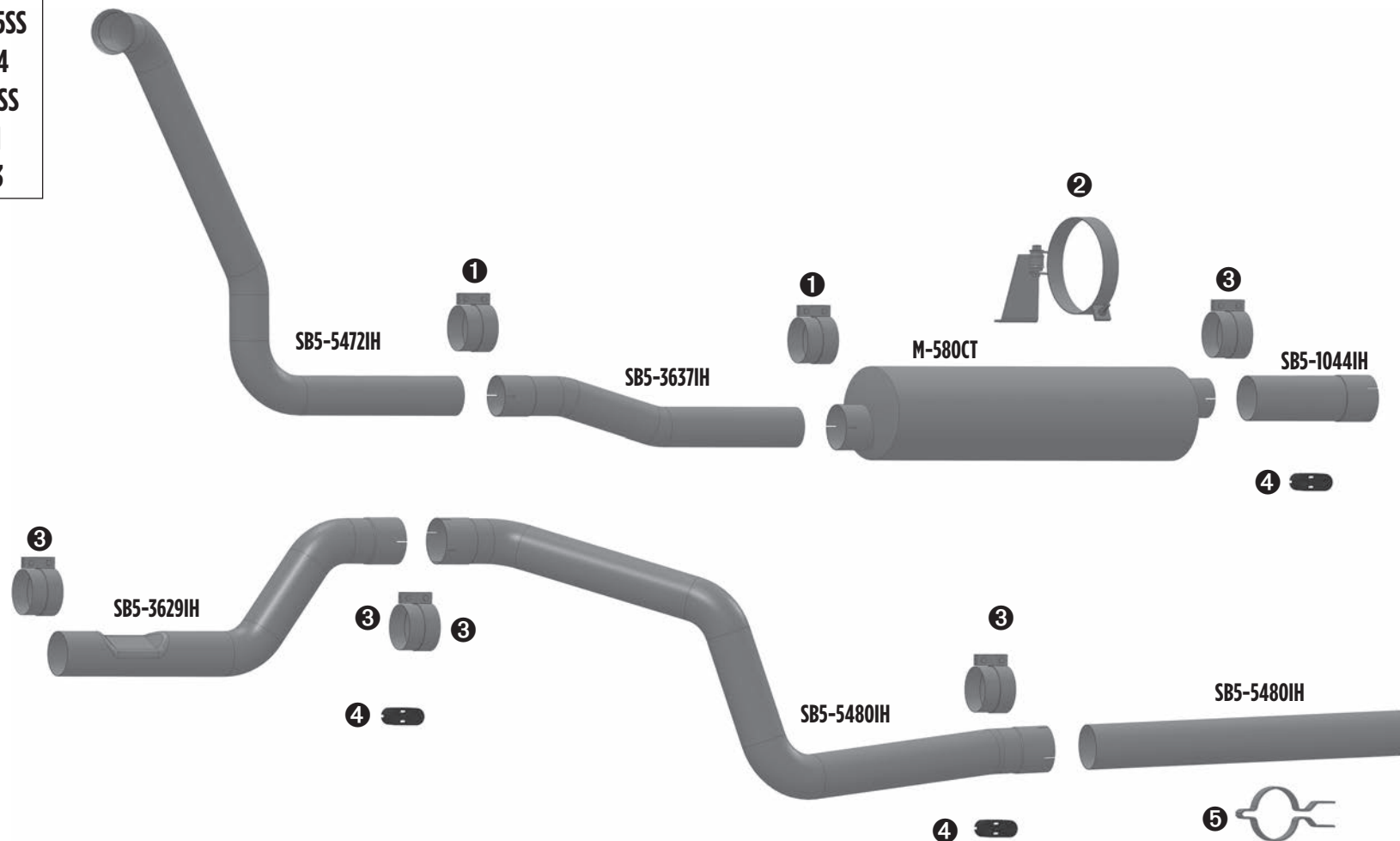


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT601 - '04 - '05 8 Cyl. Model IC w/VT365 Diesel

Clamps

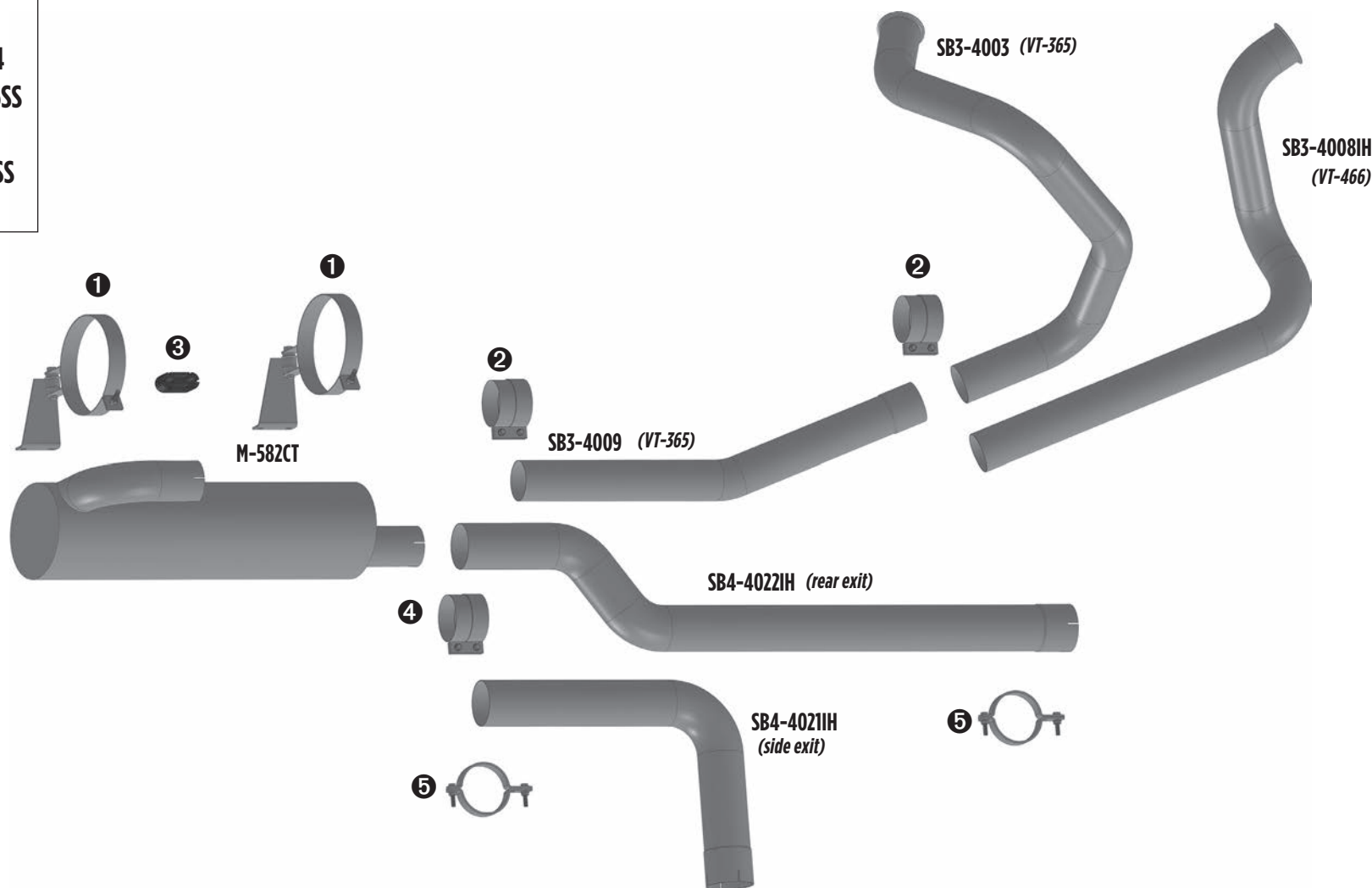
- ① WFC-35SS
- ② H-IHM4
- ③ WFC-4SS
- ④ H-IHP1
- ⑤ H-IHP3



INT602 - '04 - '07 6 Cyl. IC Rear Engine VT-365 & DT466

Clamps

- ① H-IHM4
- ② WFC-3SS
- ③ H-IHP1
- ④ WFC-4SS
- ⑤ H-IHP5

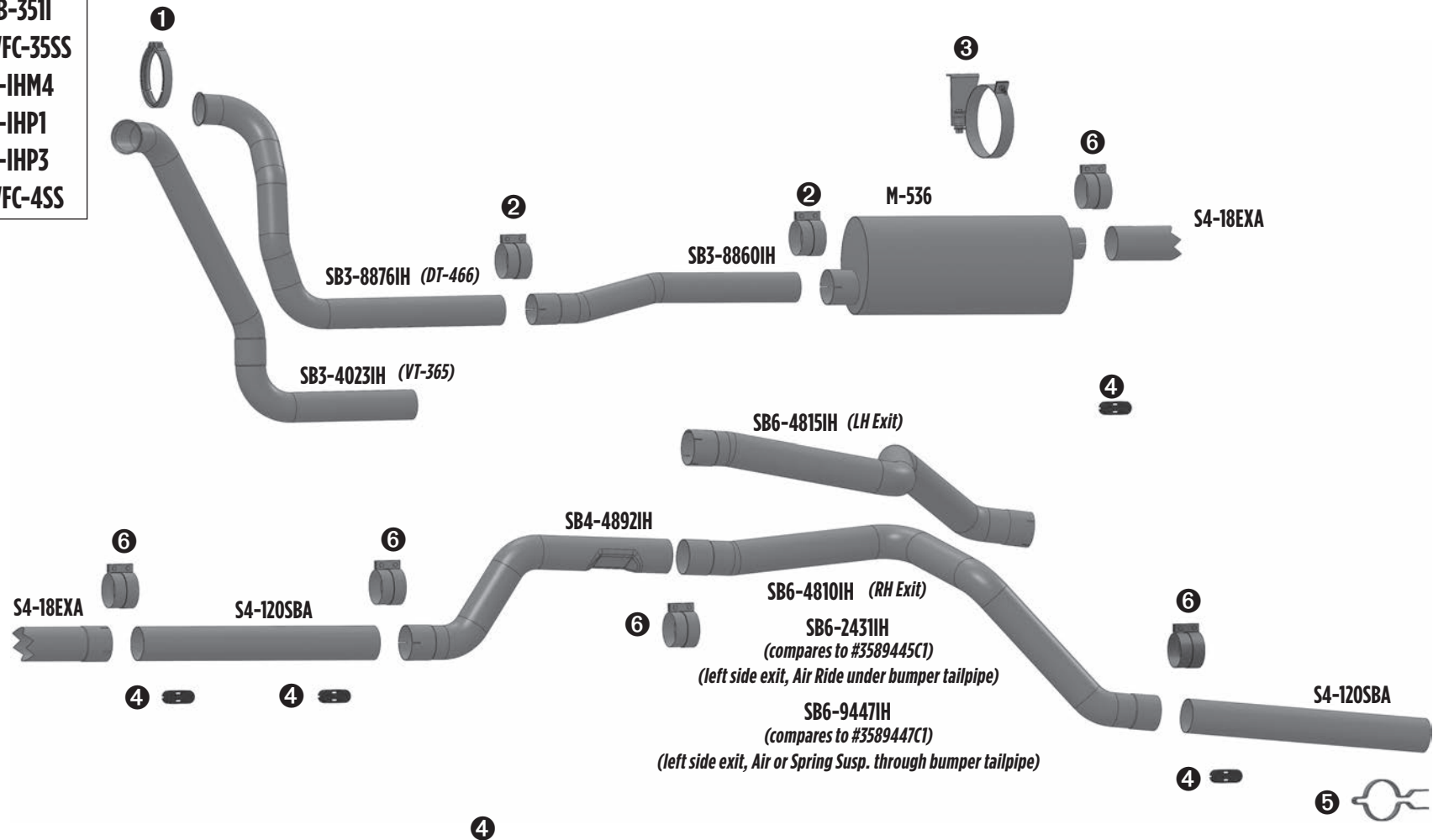


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT603 - '05 - '08 6 Cyl. CE International w/ DT-466 & VT-365 Engine Exc. DPF System

Clamps

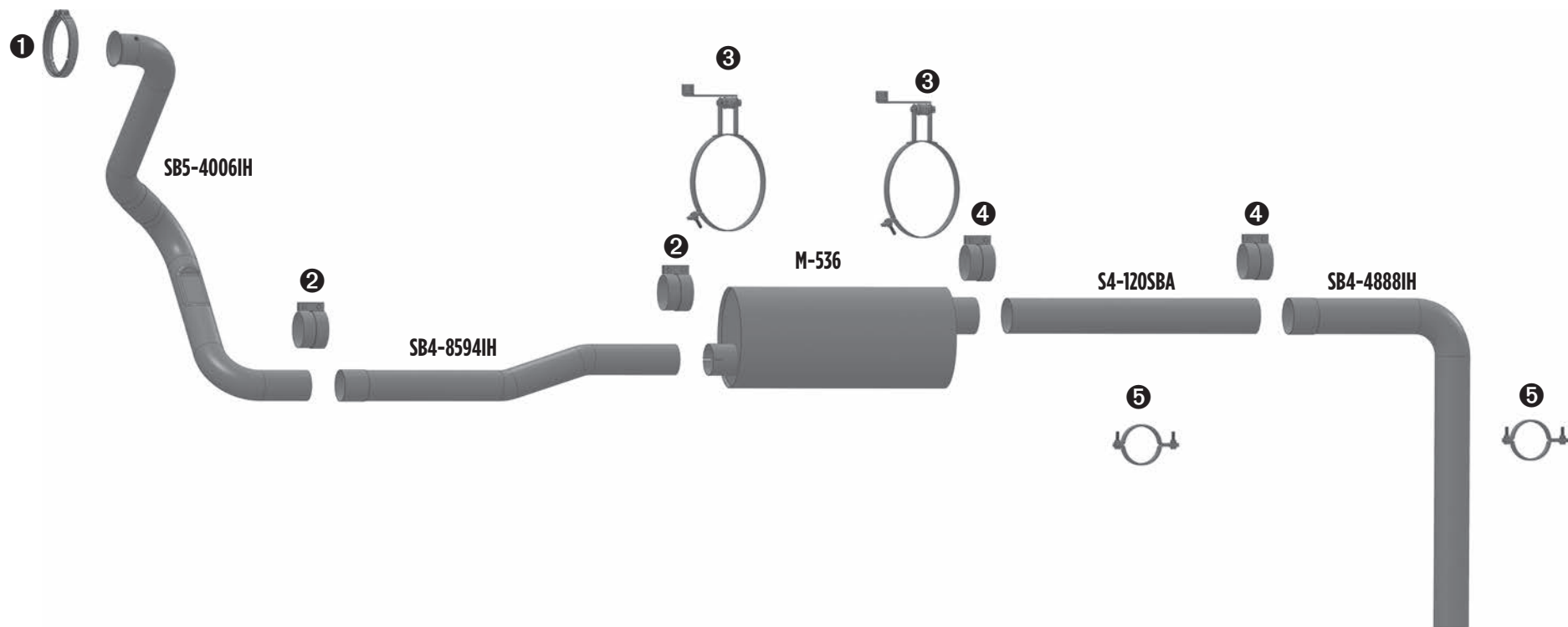
- ① VB-351I
- ② WFC-35SS
- ③ H-IHM4
- ④ H-IHP1
- ⑤ H-IHP3
- ⑥ WFC-4SS



INT604 - '00 - '02 6 Cyl. International DT 466 Engine, Left Side Exhaust System

Clamps

- ① VB-351I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

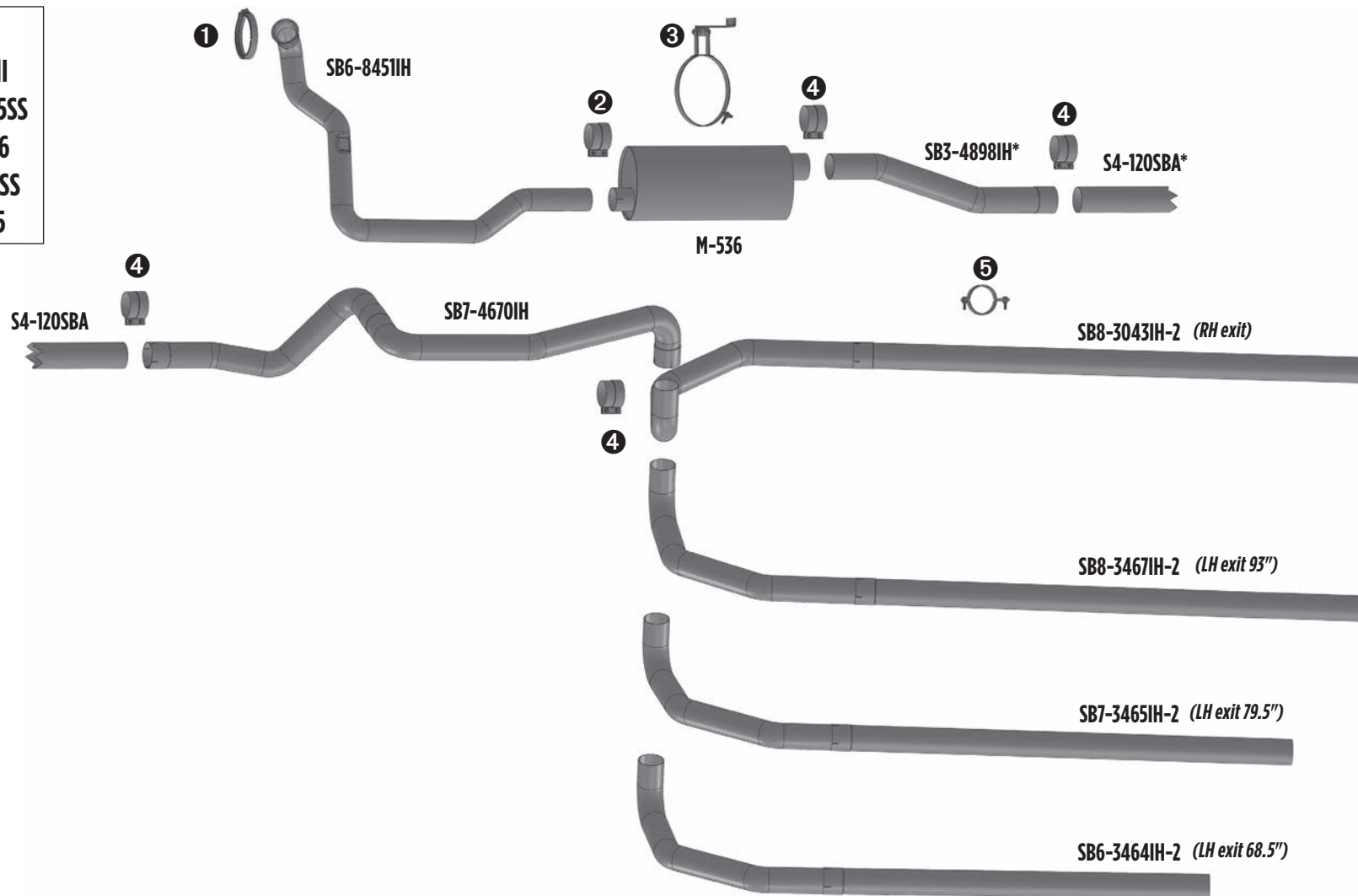


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT605 - 2001 6 Cyl. Series 3800 w/ T444 Turbo Diesel, w/ Air Ride Suspension

Clamps

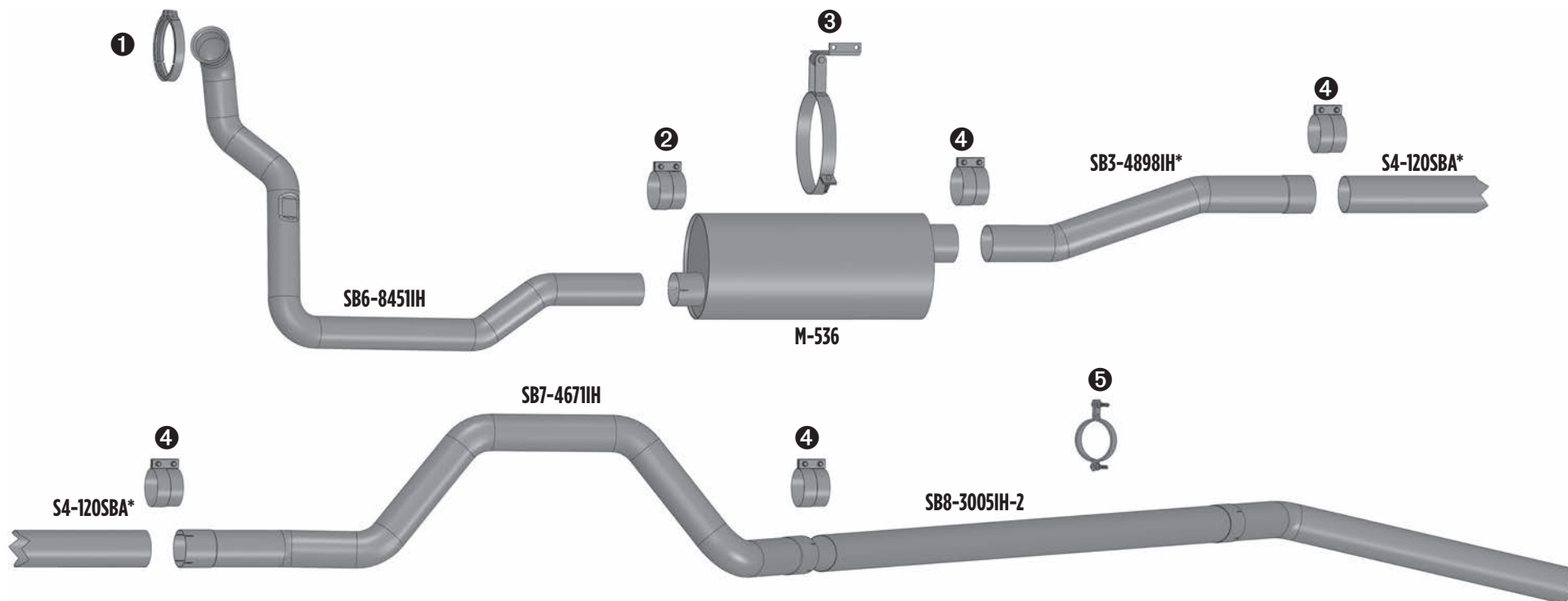
- ① VB-351I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5



INT606 - 2001 6 Cyl. Series 3800 w/ 444 Turbo Diesel, w/ Spring Suspension (Vari-Rate Suspension)

Clamps

- ① VB-351I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

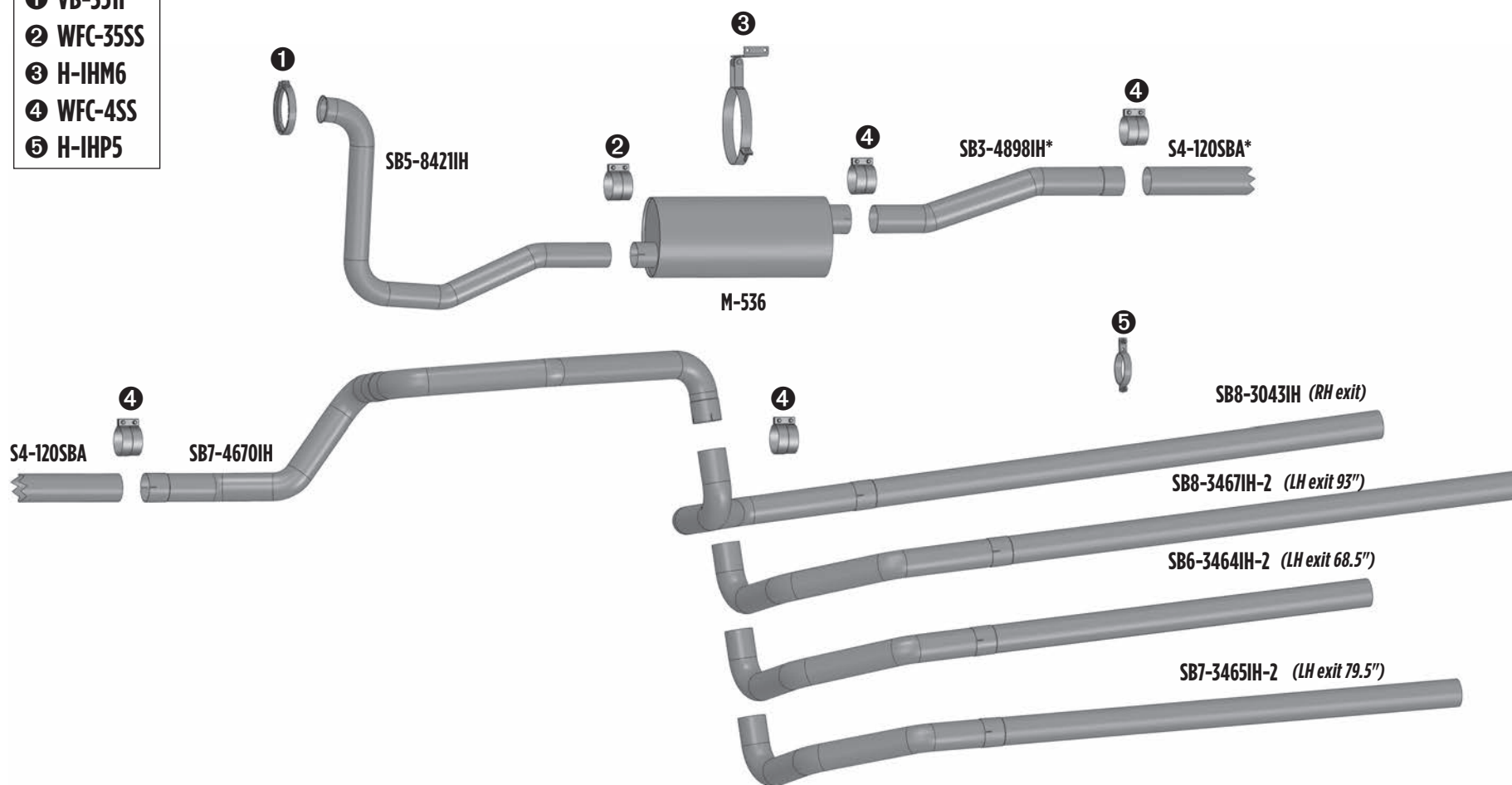


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT607 - '00 - '01 6 Cyl. Series 3800 w/ DT466 Turbo Diesel, w/ Air Ride Suspension

Clamps

- ① VB-351I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

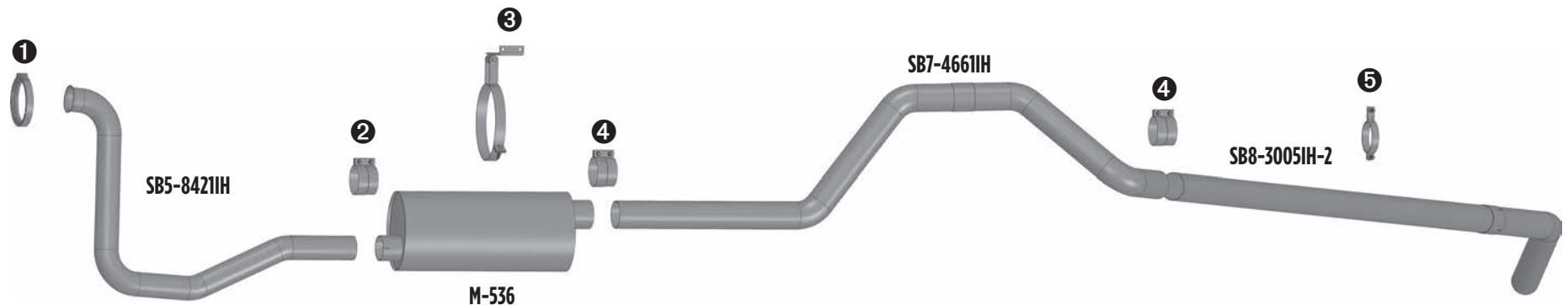


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT608 - '96 - '00 6 Cyl. Series 3800 w/ DT408, DT466 NGD Diesel; w/ Code 07ABC; RH Exhaust; 152" W.B.

Clamps

- ❶ VB-351I
- ❷ WFC-35SS
- ❸ H-IHM6
- ❹ WFC-4SS
- ❺ H-IHP5

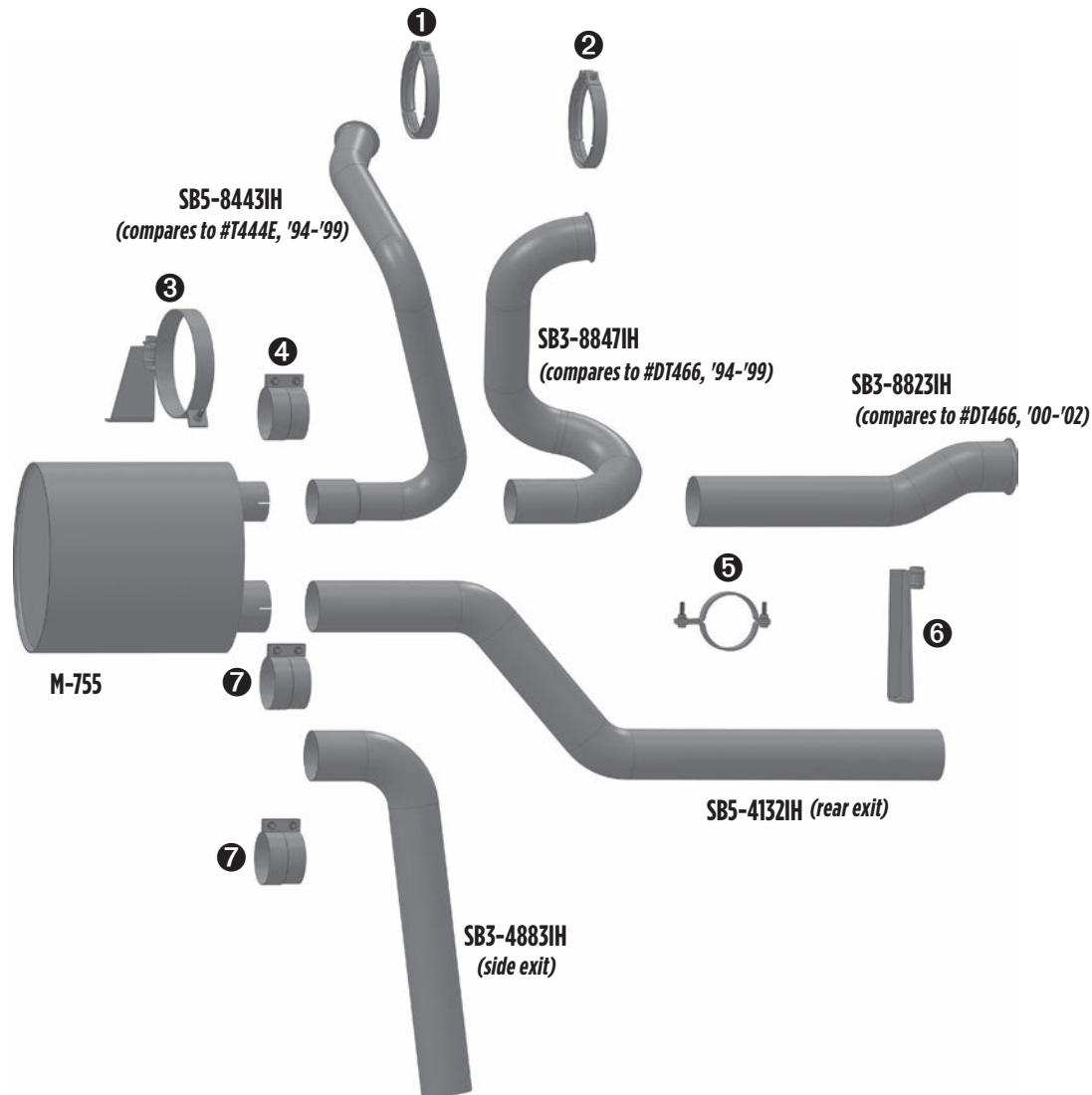


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT609 - '94 - '02 6 & 8 Cyl. Amtran T444E & Dt466 Rear Engine Forward Control

Clamps

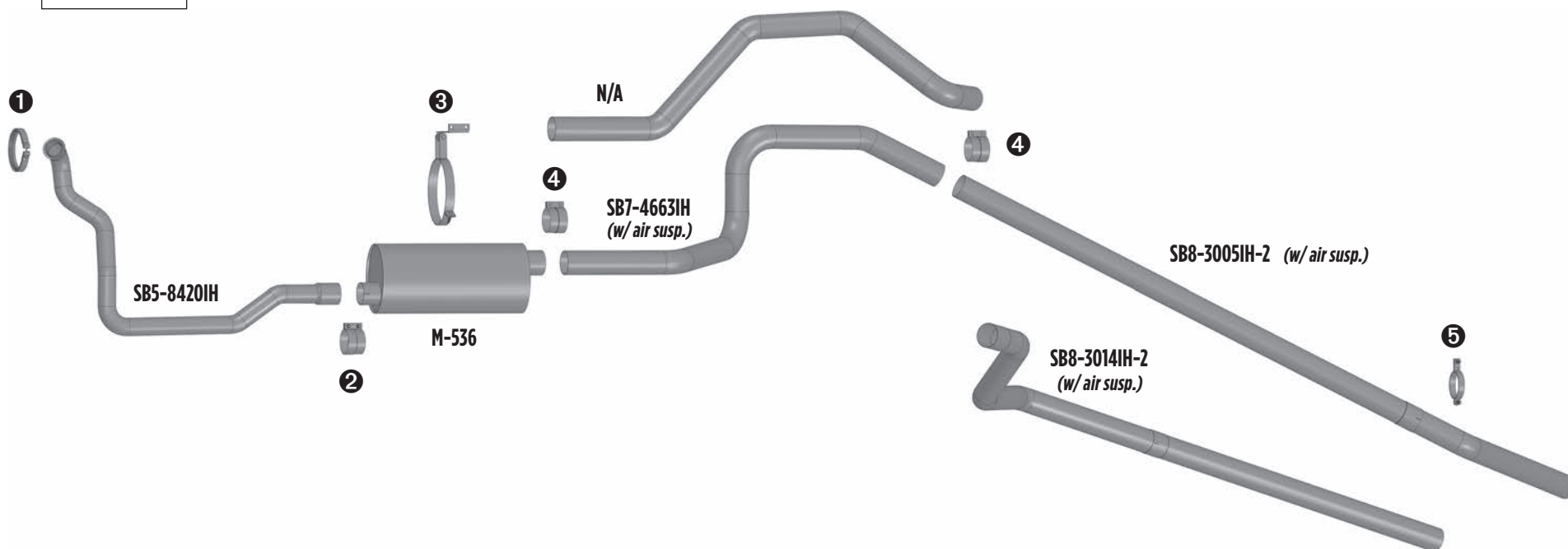
- ① VB-302I
- ② VB-351I
- ③ H-IHM6
- ④ WFC-35SS
- ⑤ H-IHP5
- ⑥ H-IH7
- ⑦ WFC-4SS



INT610 - '94 - '04 8 Cyl. Series 3600; w/ T444E Diesel; w/ Code 10NXW-Handicap Pkg.; RH Rear Exit Tail Pipe; 152"-276" W.B.

Clamps

- ① VB-301I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

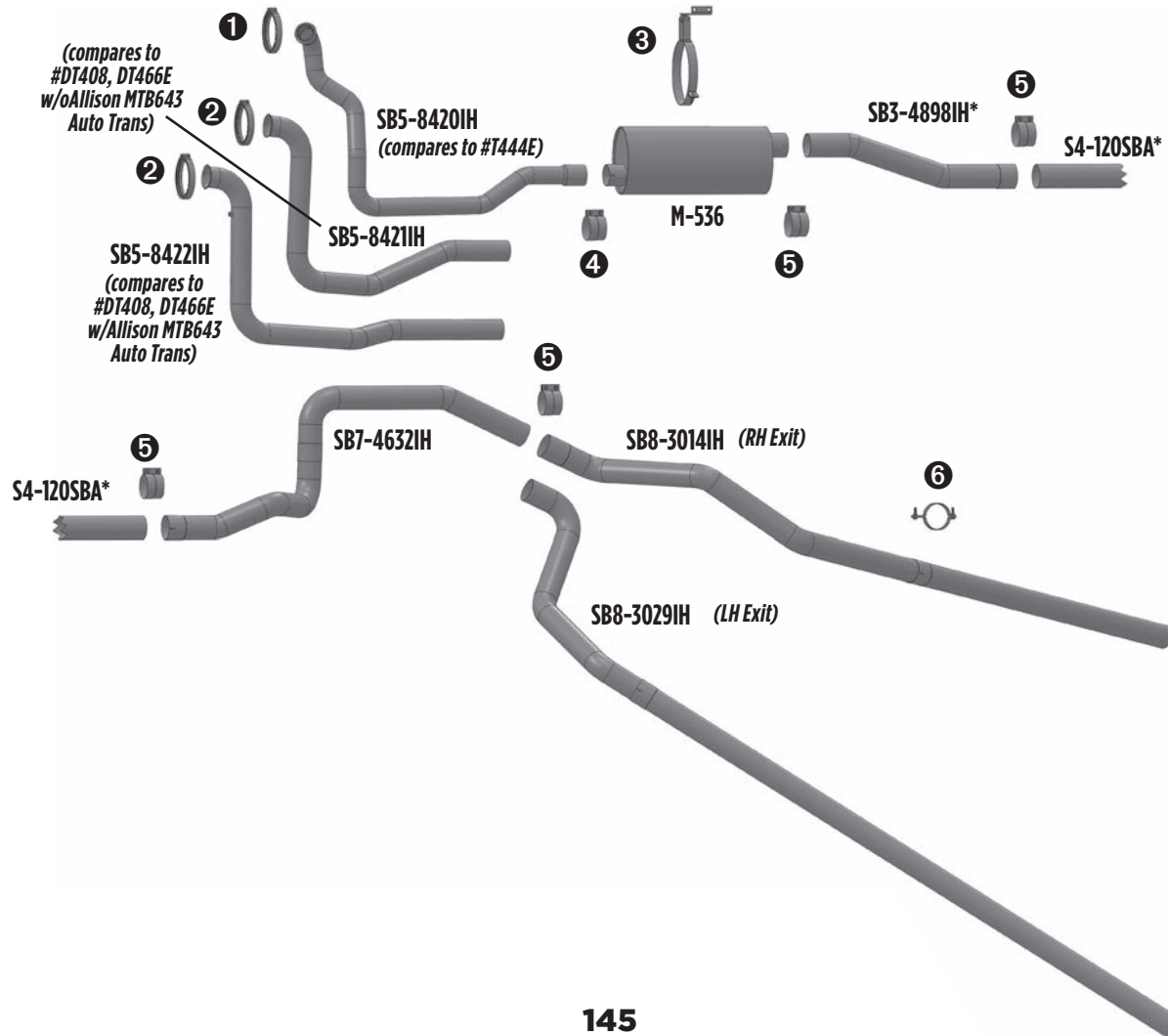


INTERNATIONAL SCHOOL BUS APPLICATIONS

**INT611 - '94 - '04 6-8 Cyl. Series 3600, 3800; 6 Cyl. DT408, DT466E, 8 Cyl. T444E Diesel; w/ Air Suspension;
152"-276" W.B.**

Clamps

- ① VB-301I
- ② VB-351I
- ③ H-IHM6
- ④ WFC-35SS
- ⑤ WFC-4SS
- ⑥ H-IHP5

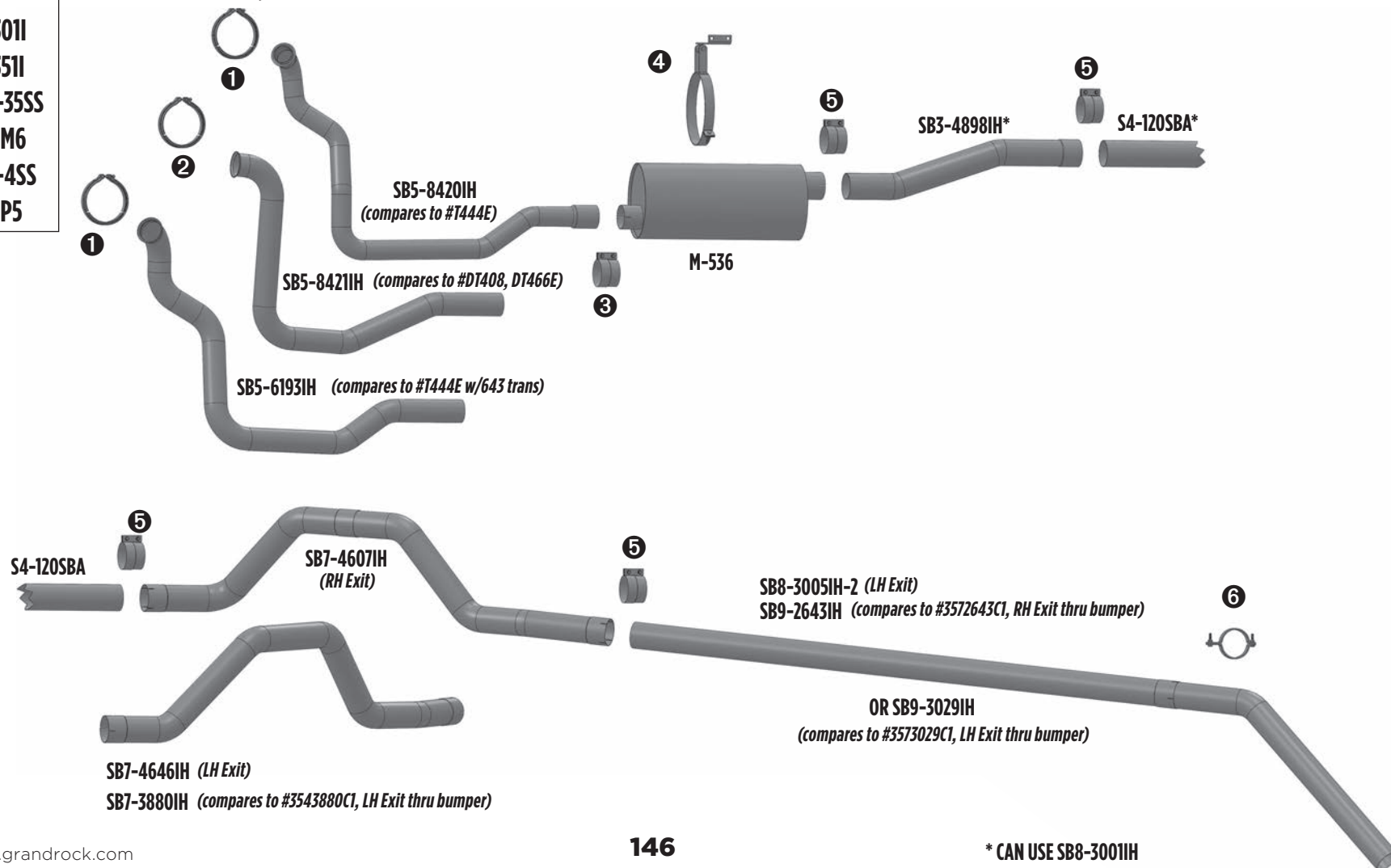


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT612 - '94 - '04 Series 3600, 3800 6 cyl., DT408, DT466E 8 cyl. T444E Turbo Diesel w/ Variable Rate Suspension; 152" - 276" W.B.

Clamps

- ① VB-301I
- ② VB-351I
- ③ WFC-35SS
- ④ H-IHM6
- ⑤ WFC-4SS
- ⑥ H-IHP5

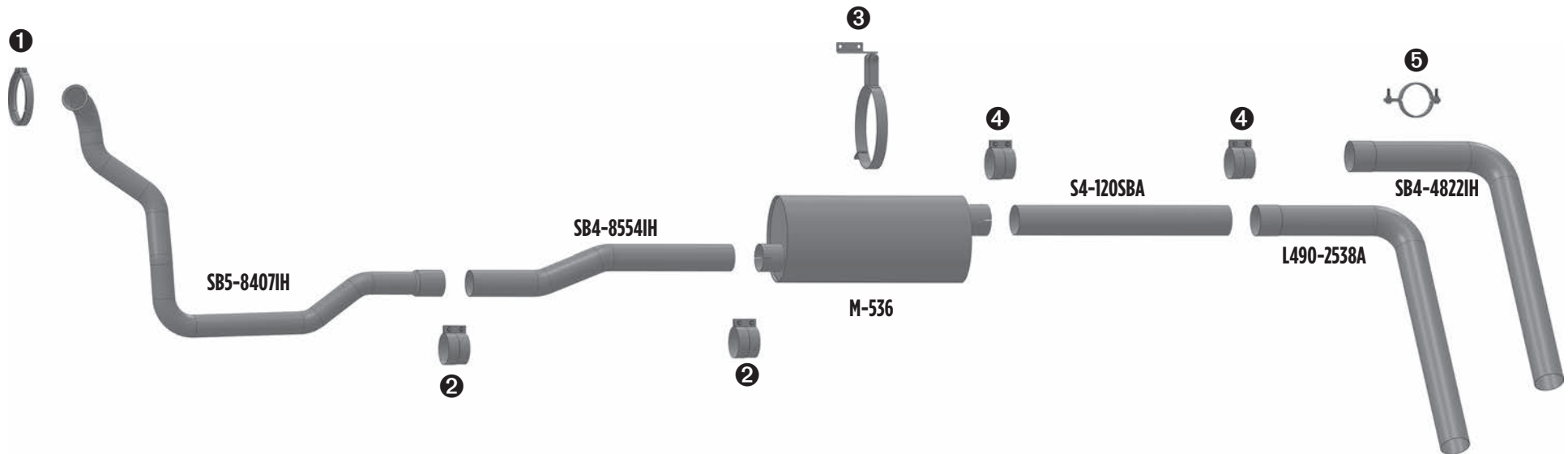


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT613 - '94 - '04 6 Cyl. Series 3800; w/ DT408, DT466E Turbo Diesel; Code 0AAS Tailpipe Exits Front of LH Rear Wheel; 152" - 276" W.B.

Clamps

- ① VB-351I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

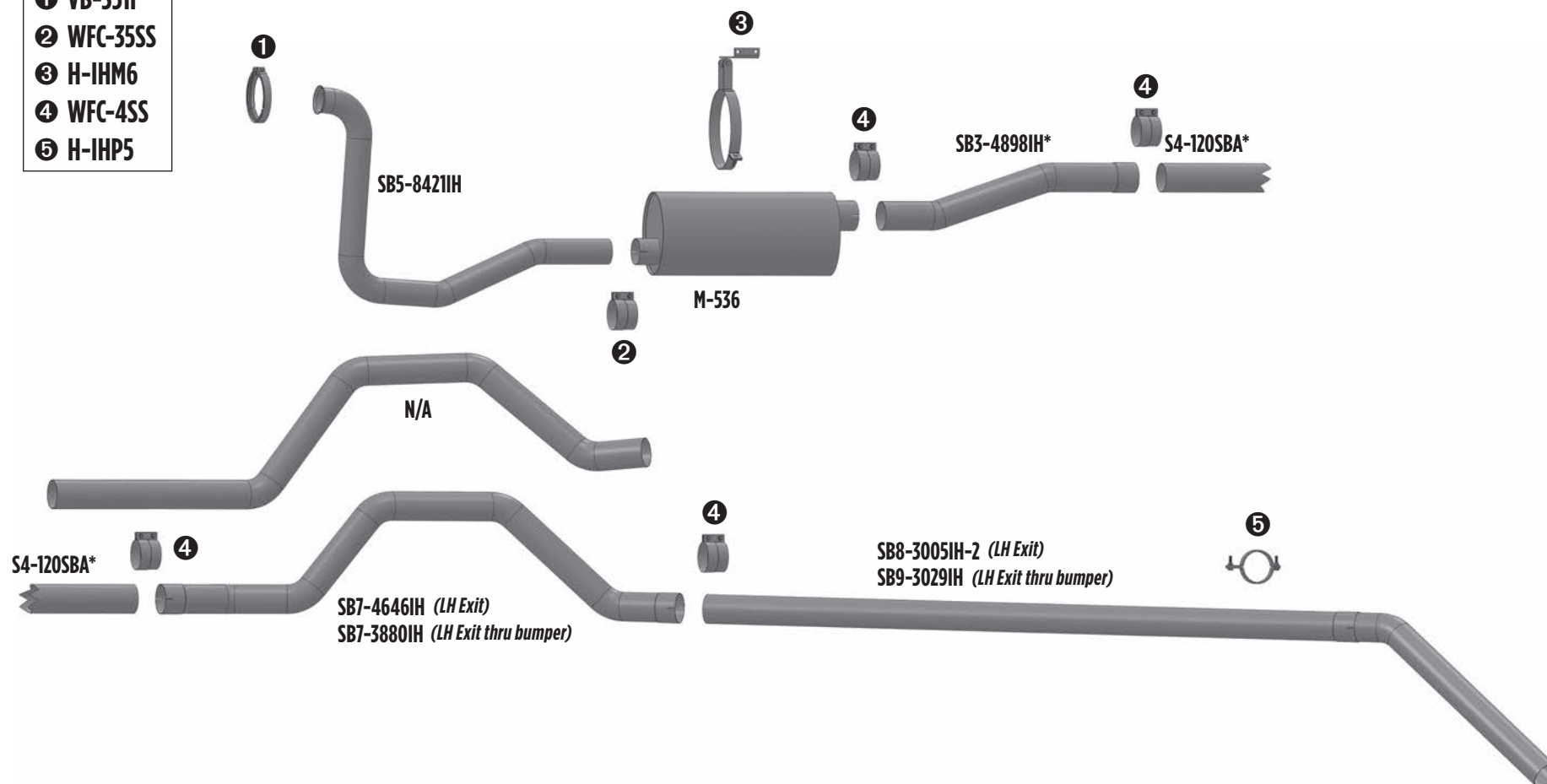


INTERNATIONAL SCHOOL BUS APPLICATIONS

**INT614 - '94 - '04 6 Cyl. Series 3800; w/ DT408, DT466E Turbo Diesel; w/ Code 07AAN; LH Exit Tail Pipe;
w/o Air Suspension; 152"-276" W.B.**

Clamps

- ① VB-351I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

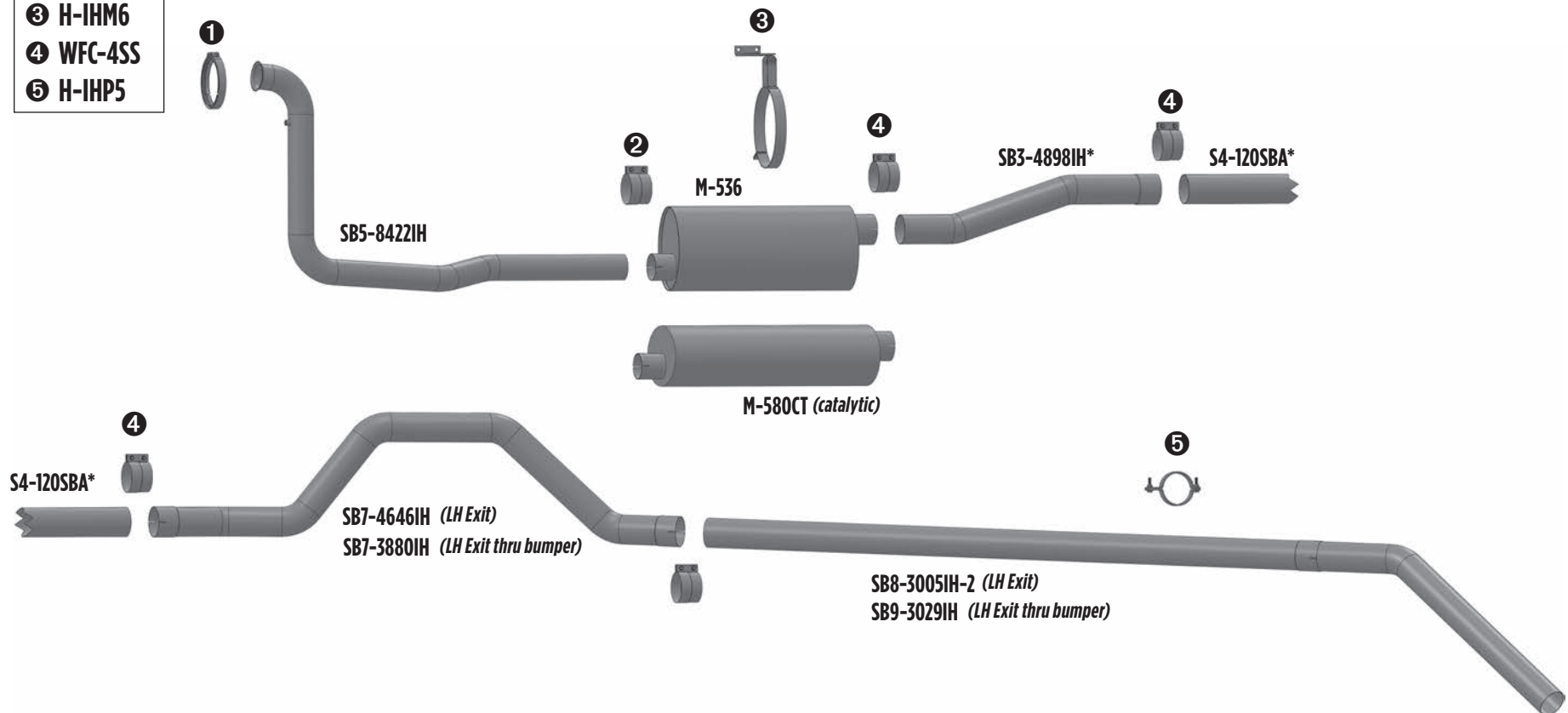


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT615 - '94 - '04 6 Cyl. Series 3800; w/ DT408, DT466E Turbo Diesel; w/ Code 07AAW; w/ Allison MTB643, MTB653DR Auto. Trans.; LH Exit Tail Pipe; w/o Air Suspension; 152", 170"-276" W.B.

Clamps

- ① VB-351I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

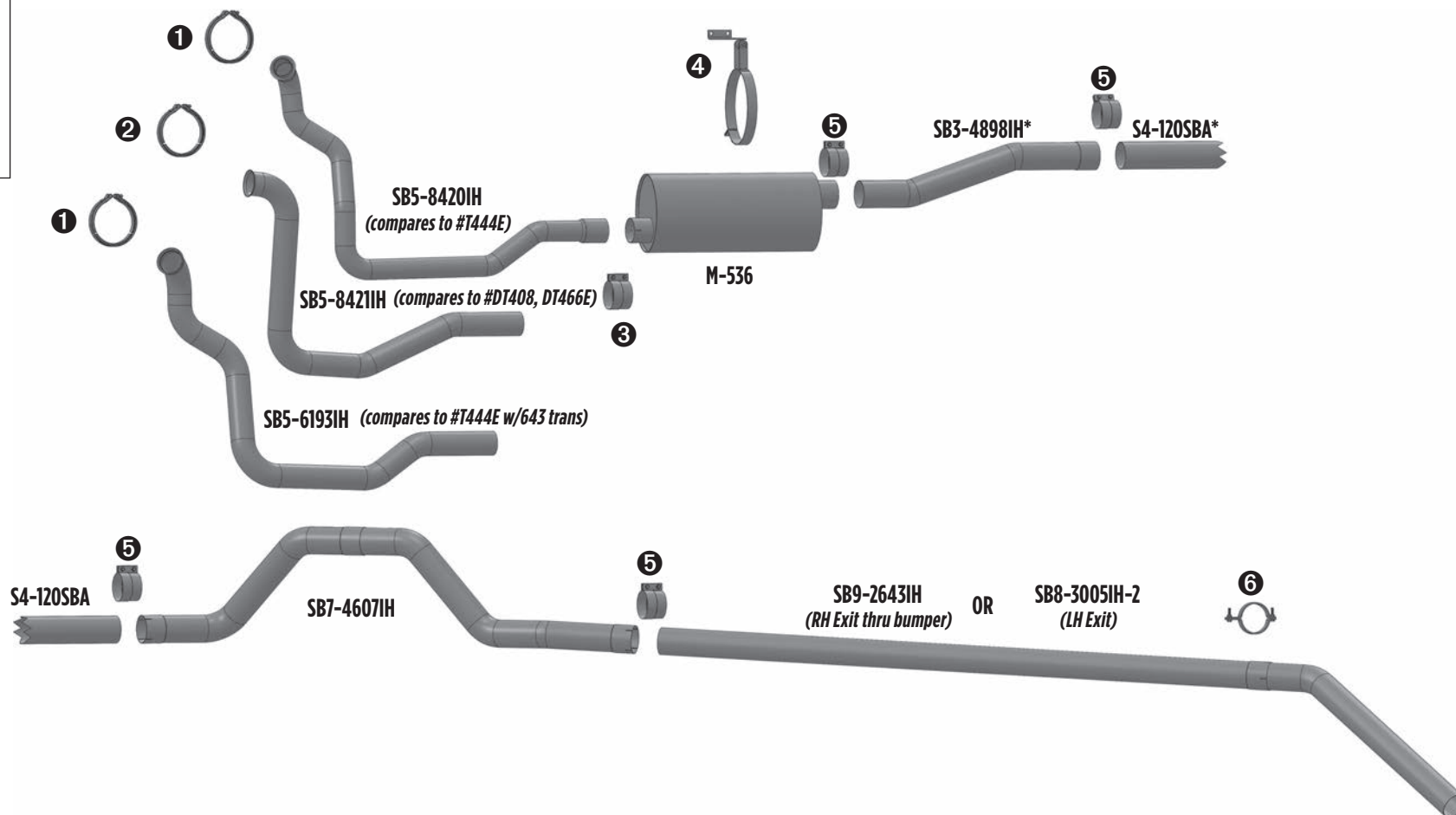


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT616 - '94 - '04 6 - 8 Cyl. Series 3600, 3800 w/ DT408, DT466E, T444E Diesel w/ Mor-Ryde Susp. Exc RH Rear Exit Tailpipe 152", 170" - 276" W.B.

Clamps

- ① VB-301I
- ② VB-351I
- ③ WFC-35SS
- ④ H-IHM6
- ⑤ WFC-4SS
- ⑥ H-IHP5

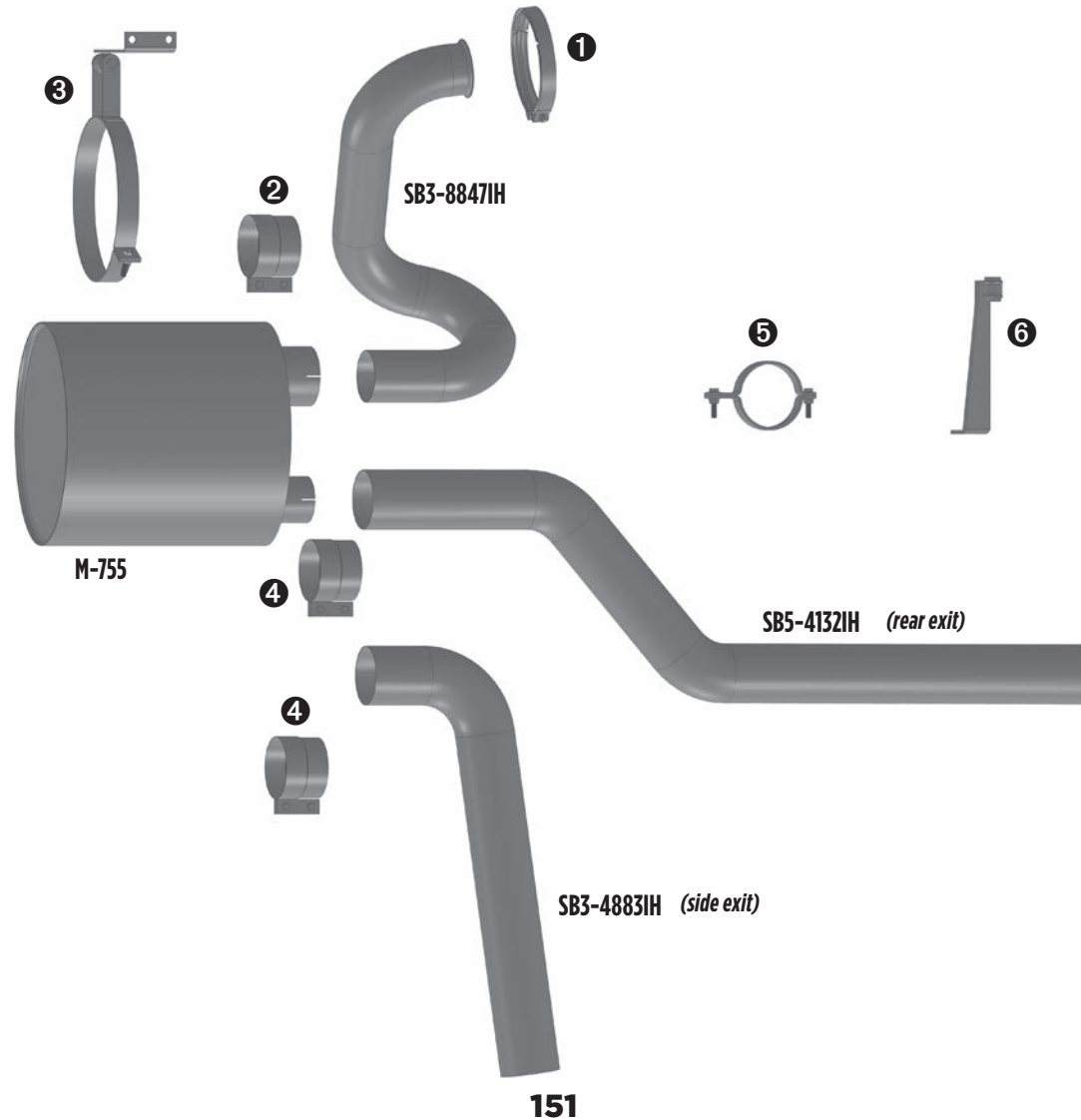


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT617 - '94 - '00 6 Cyl. International; Amtran – DT 466 Rear Engine; Forward Control

Clamps

- ① VB-302I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5
- ⑥ H-IH7

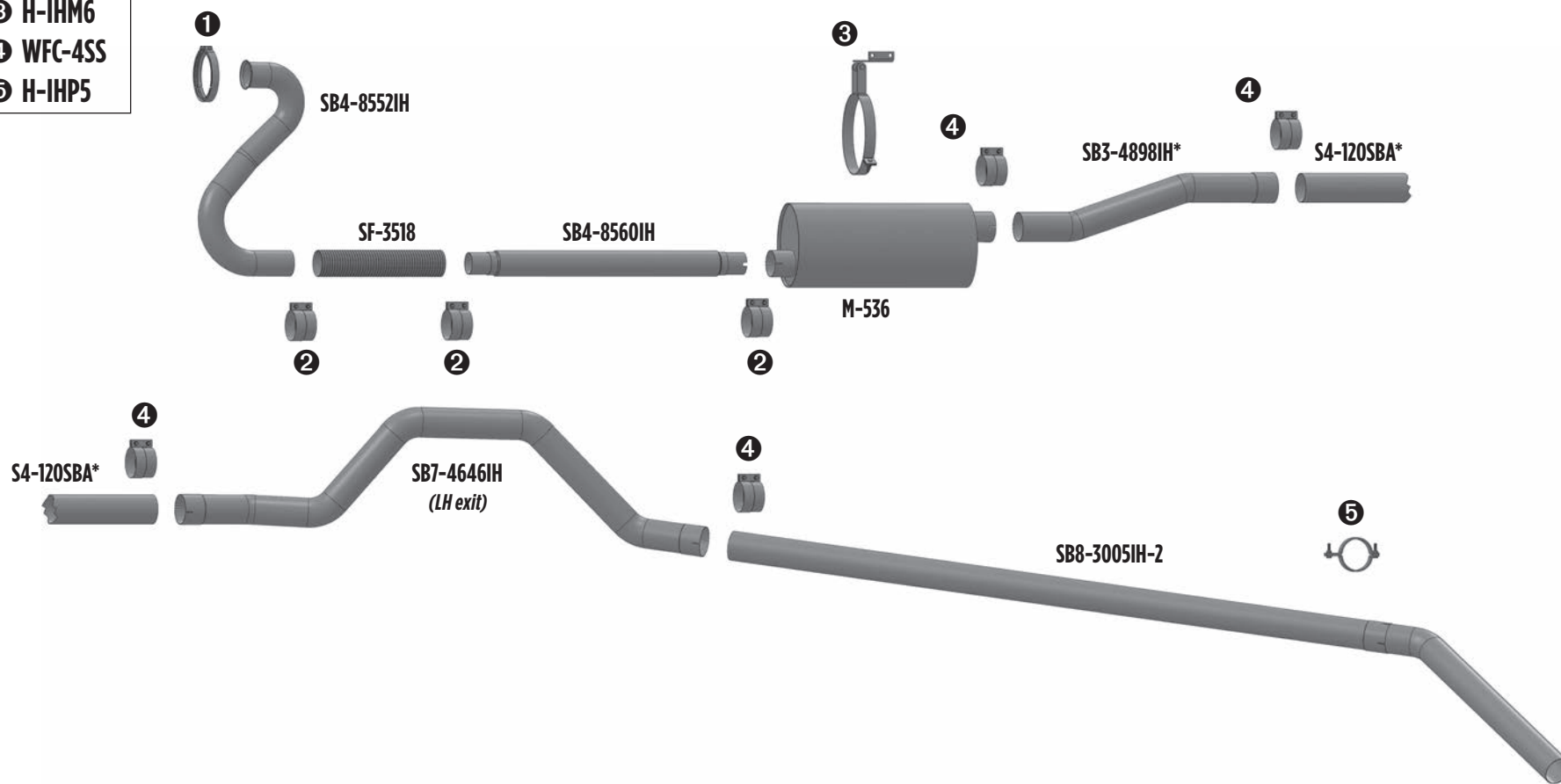


INTERNATIONAL SCHOOL BUS APPLICATIONS

**INT618 - '91 - '93 6 Cyl. Series "S"; 3700, 3800; w/ DT466, DTA466 Diesel Eng.; Allison MTB643 Auto. Trans;
w/ Mor-Ryde or Vari-Rate Suspension; w/o Air Suspension; Long Tail Pipe-Left Side Exit**

Clamps

- ① VB-350I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

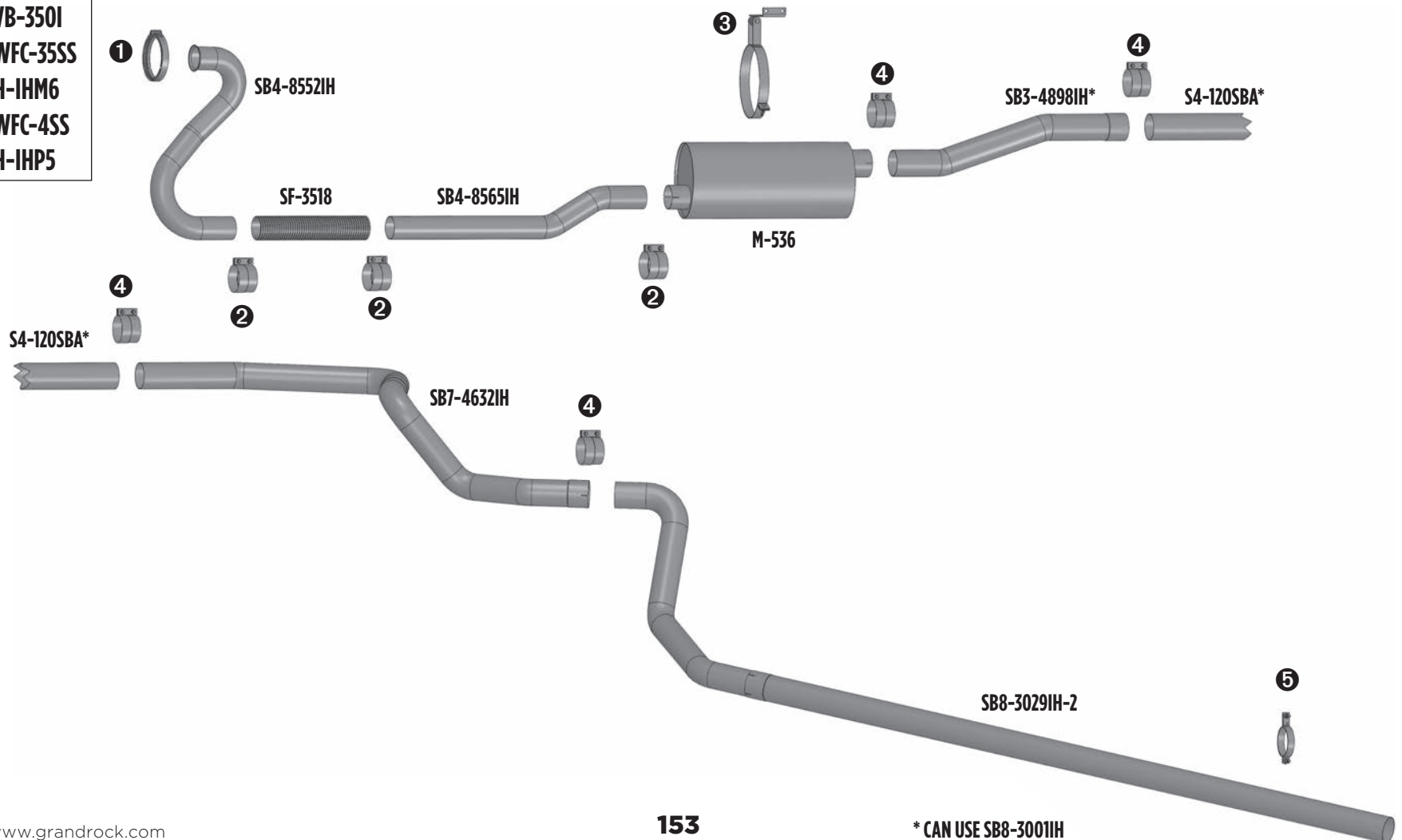


INTERNATIONAL SCHOOL BUS APPLICATIONS

**INT619 - '91 - '93 6 Cyl. Series "S"; 3700, 3800; w/ DT466, DTA466 Diesel Eng.; Allison MTB643 Auto. Trans;
w/ Air Suspension; Long Tail Pipe-Left Side Exit**

Clamps

- ① VB-350I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

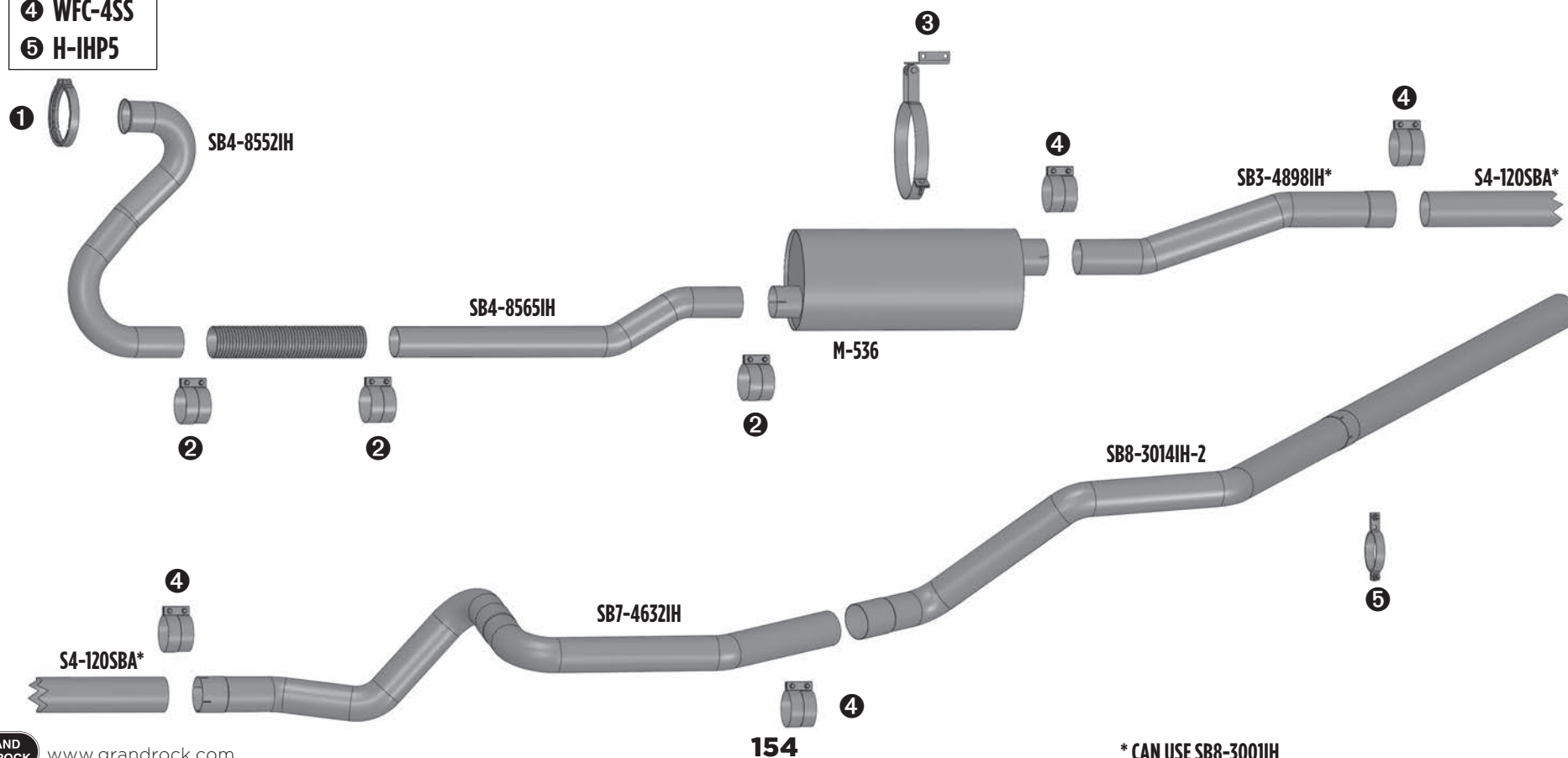


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT620 - '91 - '93 6 Cyl. Series "S"; 3700, 3800; w/ DT466, DTA466 Diesel Eng.; Allison MTB643 Auto. Trans; w/ Air Suspension; Long Tail Pipe - Right Side Exit

Clamps

- ① VB-350I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

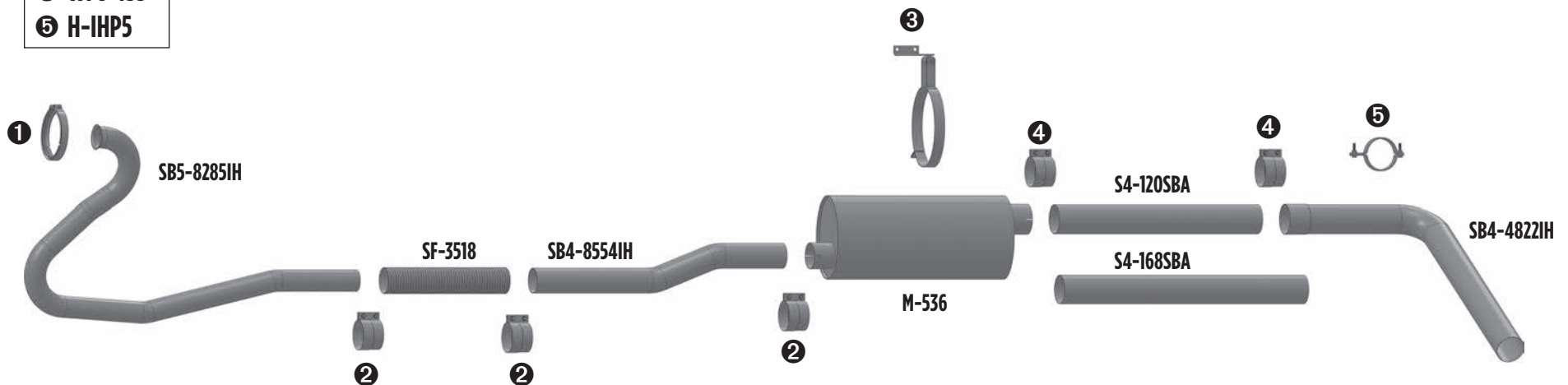


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT621 - '91 - '93 6 Cyl. Series "S" 3700, 3800; w/ DT360, DTA360 Diesel Eng. Short Tail Pipe Left Side Exit in Front of Rear Wheel

Clamps

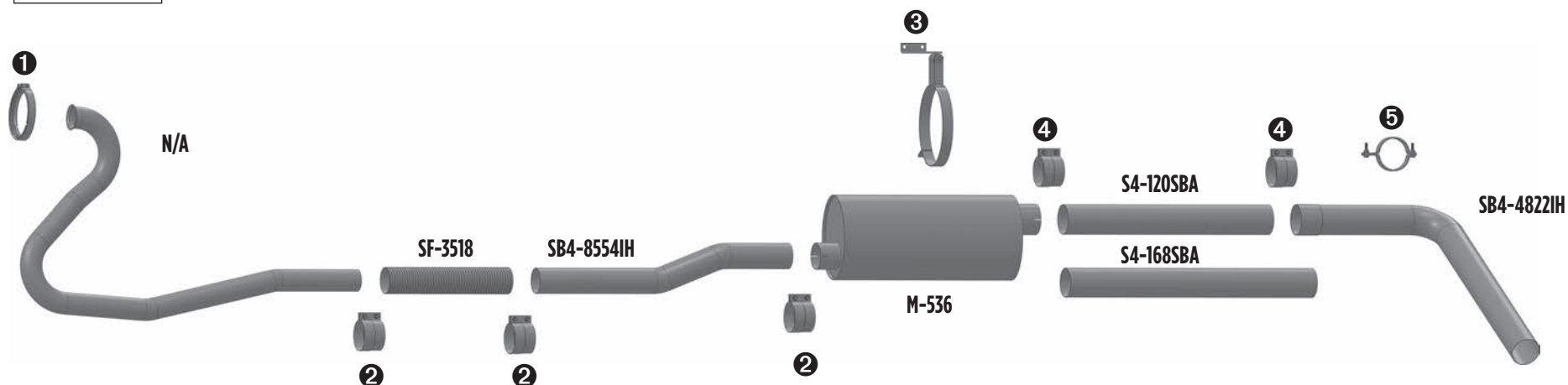
- ❶ VB-351I
- ❷ WFC-35SS
- ❸ H-IHM6
- ❹ WFC-4SS
- ❺ H-IHP5



INT622 - '91 - '93 6 Cyl. Series "S"; 3700, 3800; w/ DT466, DTA466 Diesel Eng.; Short Tail Pipe-Left Side Exit in Front of Rear Wheel

Clamps

- ① VB-350I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

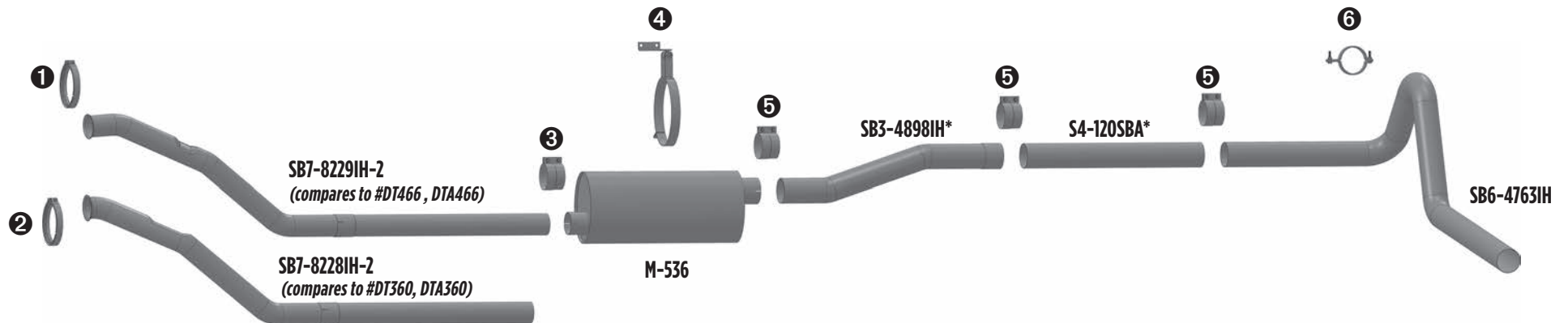


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT623 - '91 - '93 6 Cyl. 3900 FC Series; w/ DT360, DTA360 Diesel Eng.; Short Tail Pipe-Left Side Exit in Front of Rear Wheel
'91- '93 6 Cyl. 3900 FC Series; w/ DT466, DTA466 Diesel Eng.; Short Tail Pipe-Left Side Exit in Front of Rear Wheel

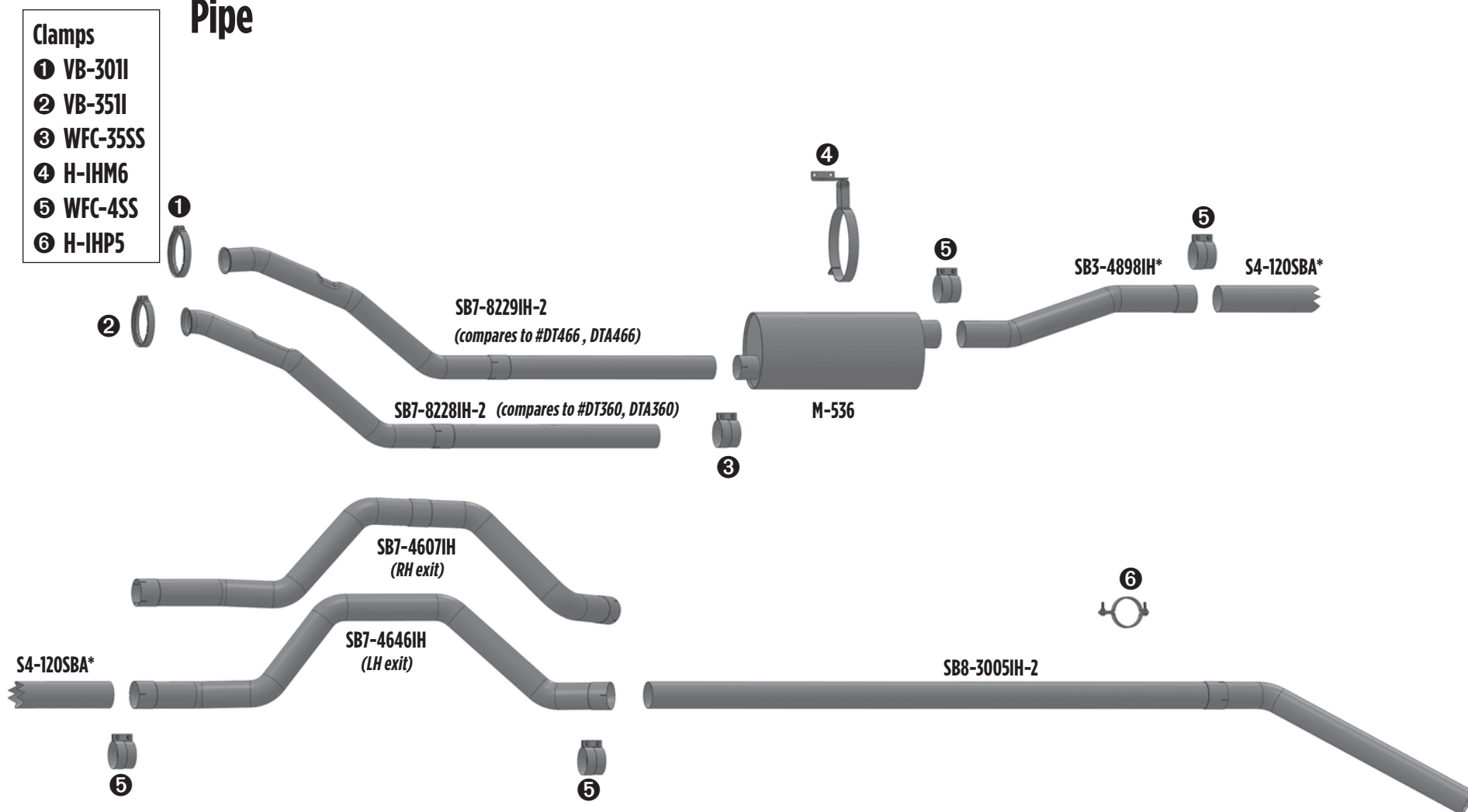
Clamps

- ❶ VB-301I
- ❷ VB-351I
- ❸ WFC-35SS
- ❹ H-IHM6
- ❺ WFC-4SS
- ❻ H-IHP5



INTERNATIONAL SCHOOL BUS APPLICATIONS

INT624 - '91 - '93 6 Cyl. 3900 FC Series; DT/DTA360, DT/DTA466 Diesel Eng.; w/o Air Suspension; Long Tail Pipe

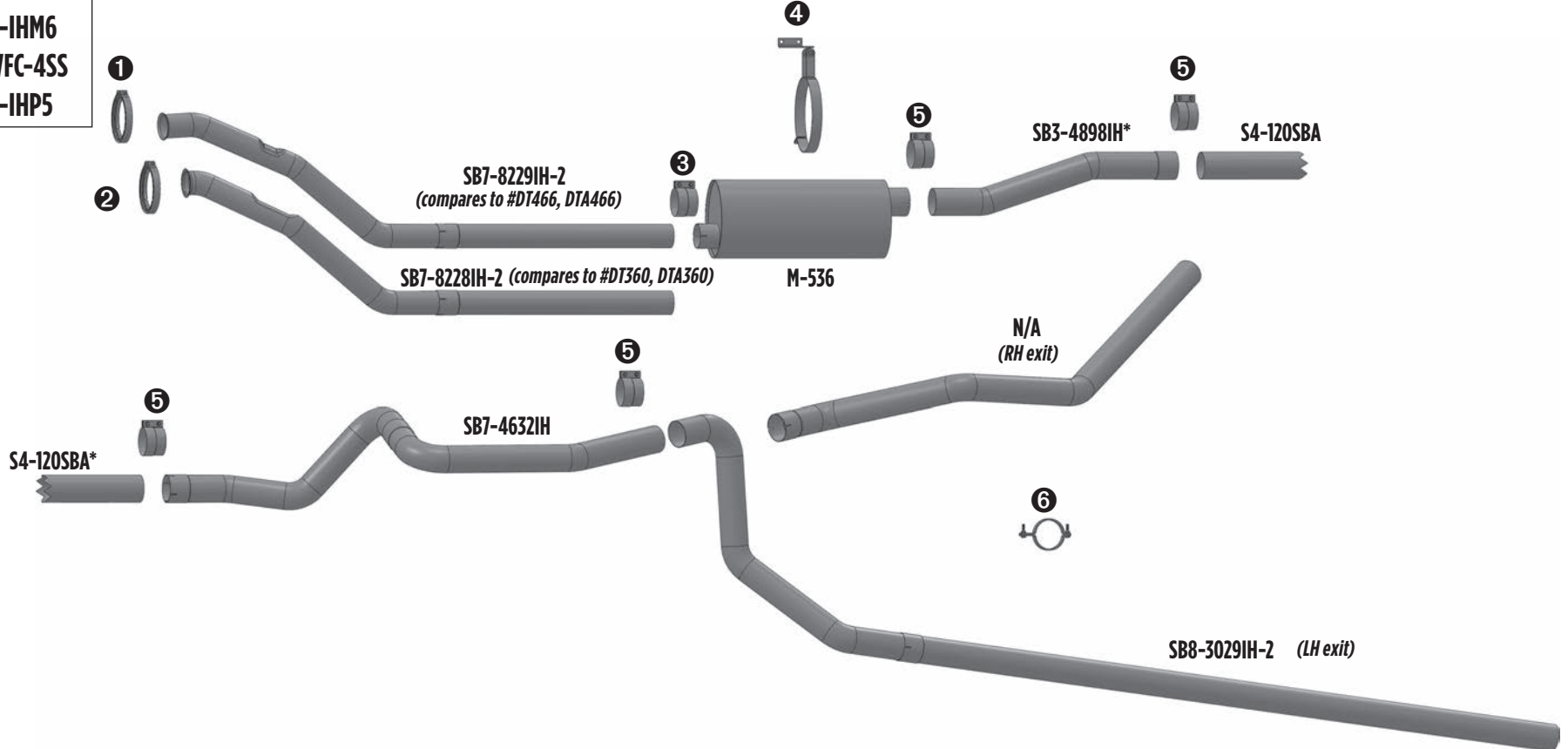


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT625 - '91 - '93 6 Cyl. 3900 FC Series; w/ DT360, DTA360, DT466, DTA466 Diesel Eng.; w/Air Suspension, Long Tail Pipe

Clamps

- ① VB-301I
- ② VB-351I
- ③ WFC-35SS
- ④ H-IHM6
- ⑤ WFC-4SS
- ⑥ H-IHP5

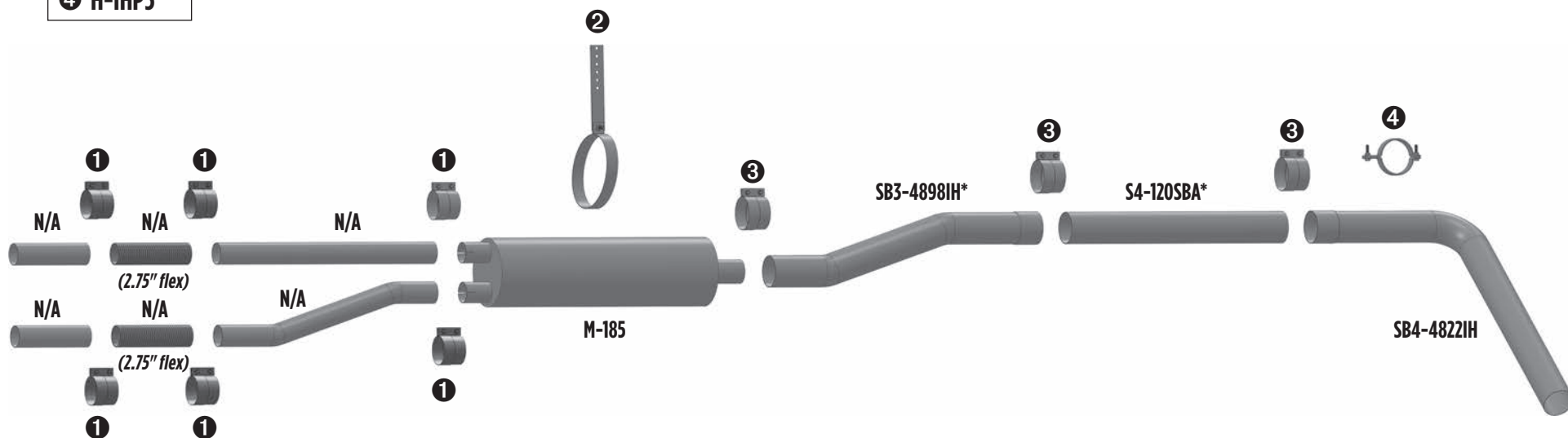


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT626 - '91 - '93 6 Cyl. Series 3700, 3800; w/ 7.3L Diesel; LH Side Exit in Front of Rear Wheel; 152"-276" W.B.

Clamps

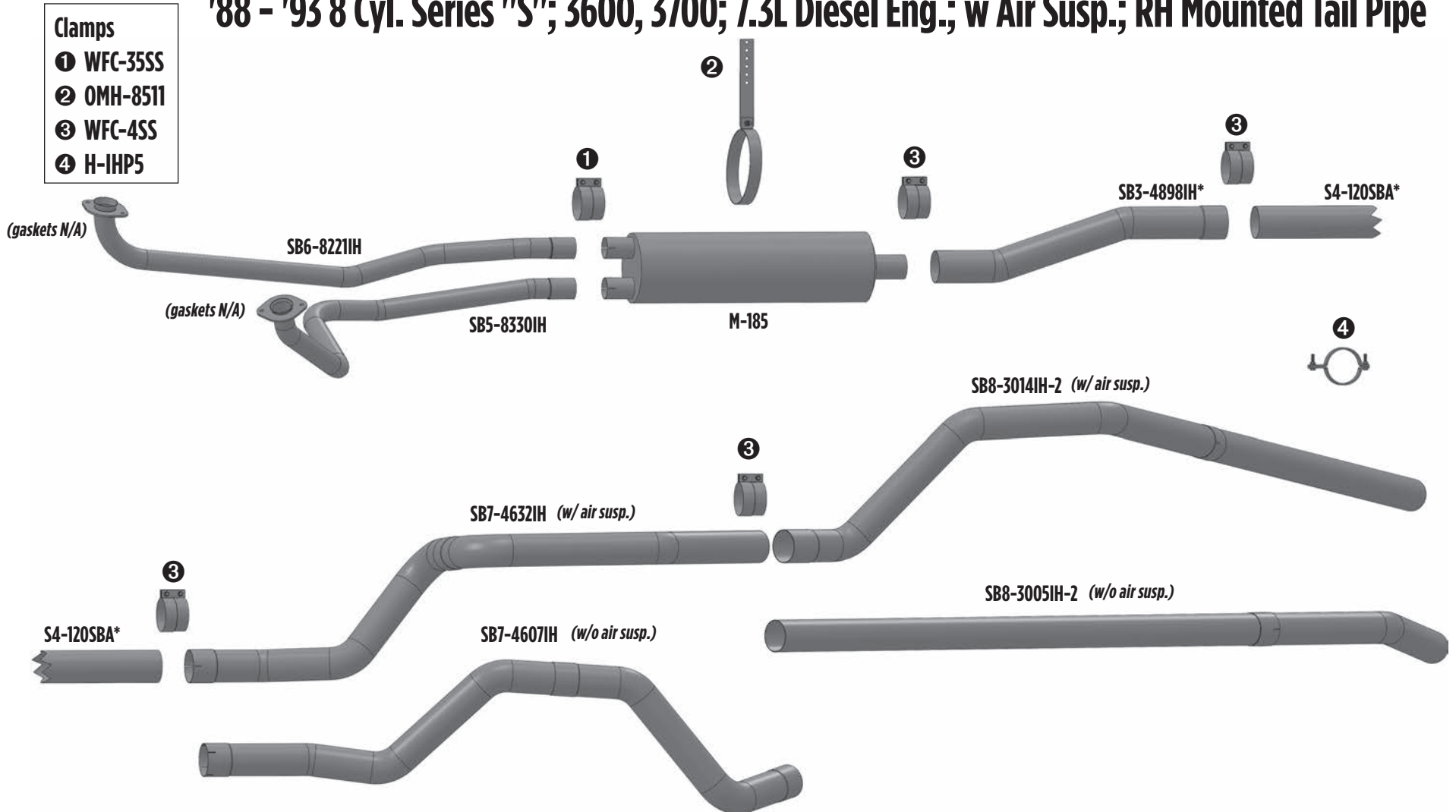
- ❶ PF-275
- ❷ OMH-8511
- ❸ WFC-4SS
- ❹ H-IHP5



*** CAN USE SB8-3001IH**

INTERNATIONAL SCHOOL BUS APPLICATIONS

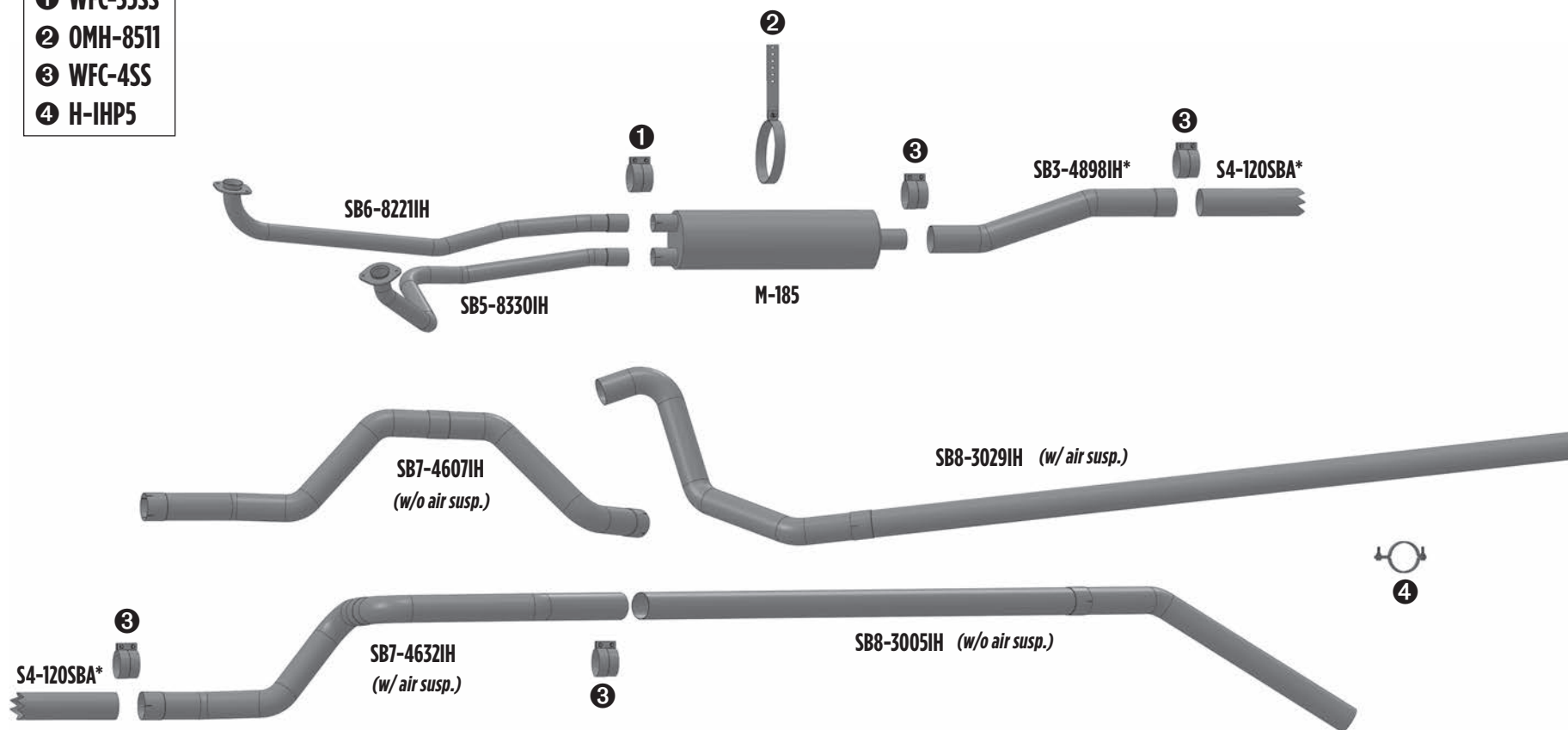
INT627 - '88 - '93 8 Cyl. Series "S"; 3600, 3700; 7.3L Diesel Eng.; w/o Air Susp.; RH Mounted Tail Pipe '88 - '93 8 Cyl. Series "S"; 3600, 3700; 7.3L Diesel Eng.; w Air Susp.; RH Mounted Tail Pipe



INT628 - '88 - '93 8 Cyl. Series "S"; 3600, 3700; 7.3L Diesel Eng.; w/o Air Susp.; LH Mounted Tail Pipe '88 - '93 8 Cyl. Series "S"; 3600, 3700; 7.3L Diesel Eng.; w Air Susp.; LH Mounted Tail Pipe

Clamps

- ① WFC-35SS
- ② OMH-8511
- ③ WFC-4SS
- ④ H-IHP5



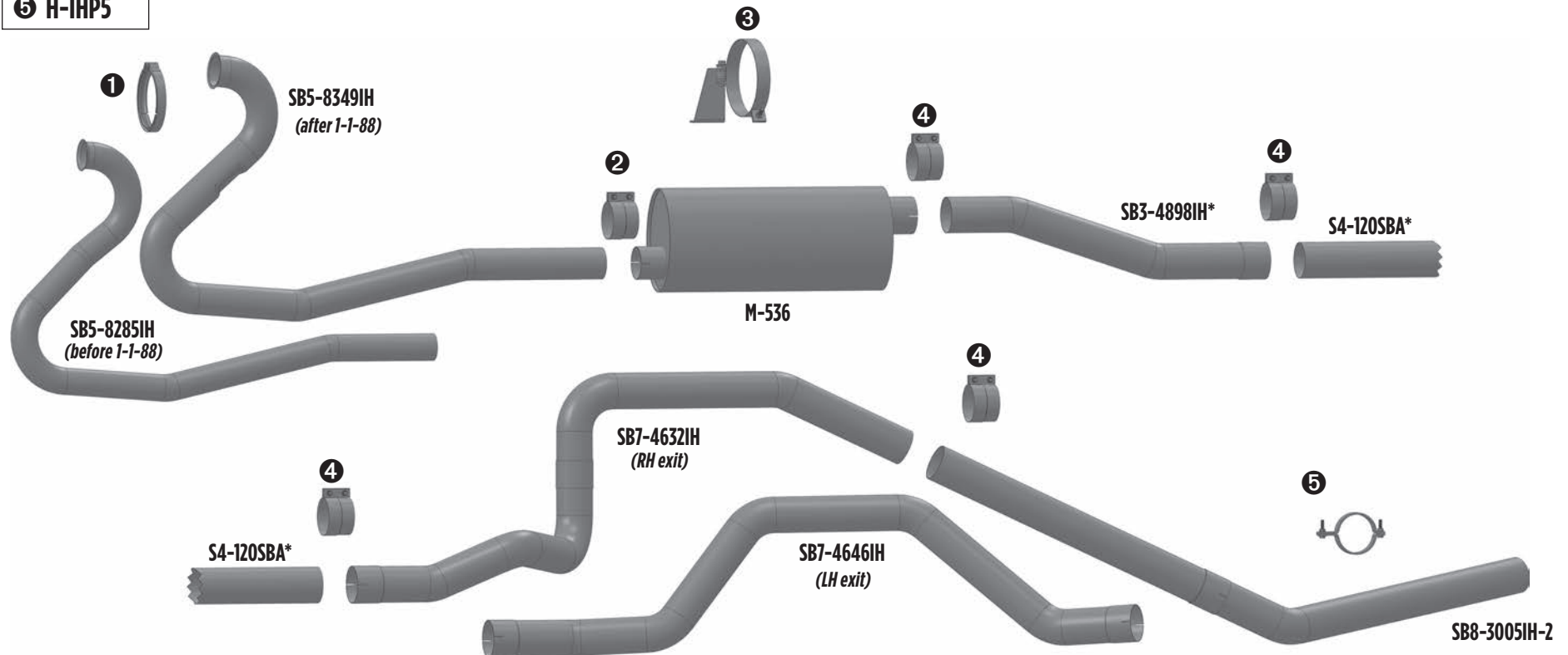
INTERNATIONAL SCHOOL BUS APPLICATIONS

INT629 - '87 - '93 6 Cyl. Series "S"; 3600, 3700, 3800; DT/DTA360 Diesel Eng.; w/o Air Susp. w/ Mor-Ryde or Vari-Rate Susp.; Long Tail Pipe - Left Side Exit

'87 - '93 6 Cyl. Series "S"; 3600, 3700, 3800; DT/DTA360 Diesel Eng.; w/o Air Susp.; Long Tail Pipe - Right Side Exit

Clamps

- ❶ VB351I
- ❷ WFC-35SS
- ❸ H-IHM6
- ❹ WFC-4SS
- ❺ H-IHP5

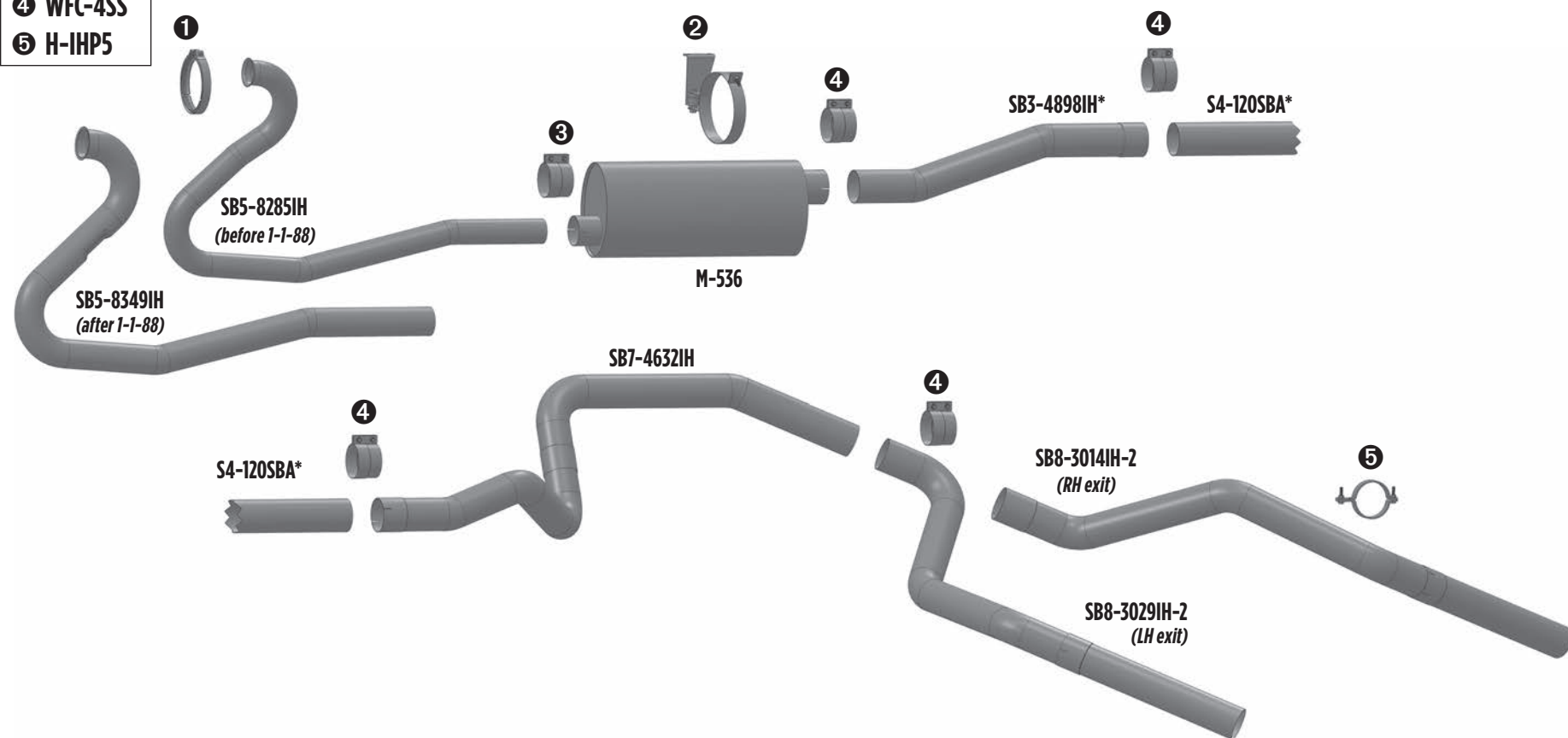


INT630 - '87 - '93 6 Cyl. Series "S"; 3700, 3800; DT/DTA360 Diesel Eng.; w/ Air Susp.; Long Tail Pipe - Left Side Exit

Clamps

- ① VB-351I
- ② H-IHM6
- ③ WFC-35SS
- ④ WFC-4SS
- ⑤ H-IHP5

'87 - '93 6 Cyl. Series "S"; 3600, 3700, 3800; DT/DTA360 Diesel Eng.; w/ Air Susp.; Long Tail Pipe - Right Side Exit



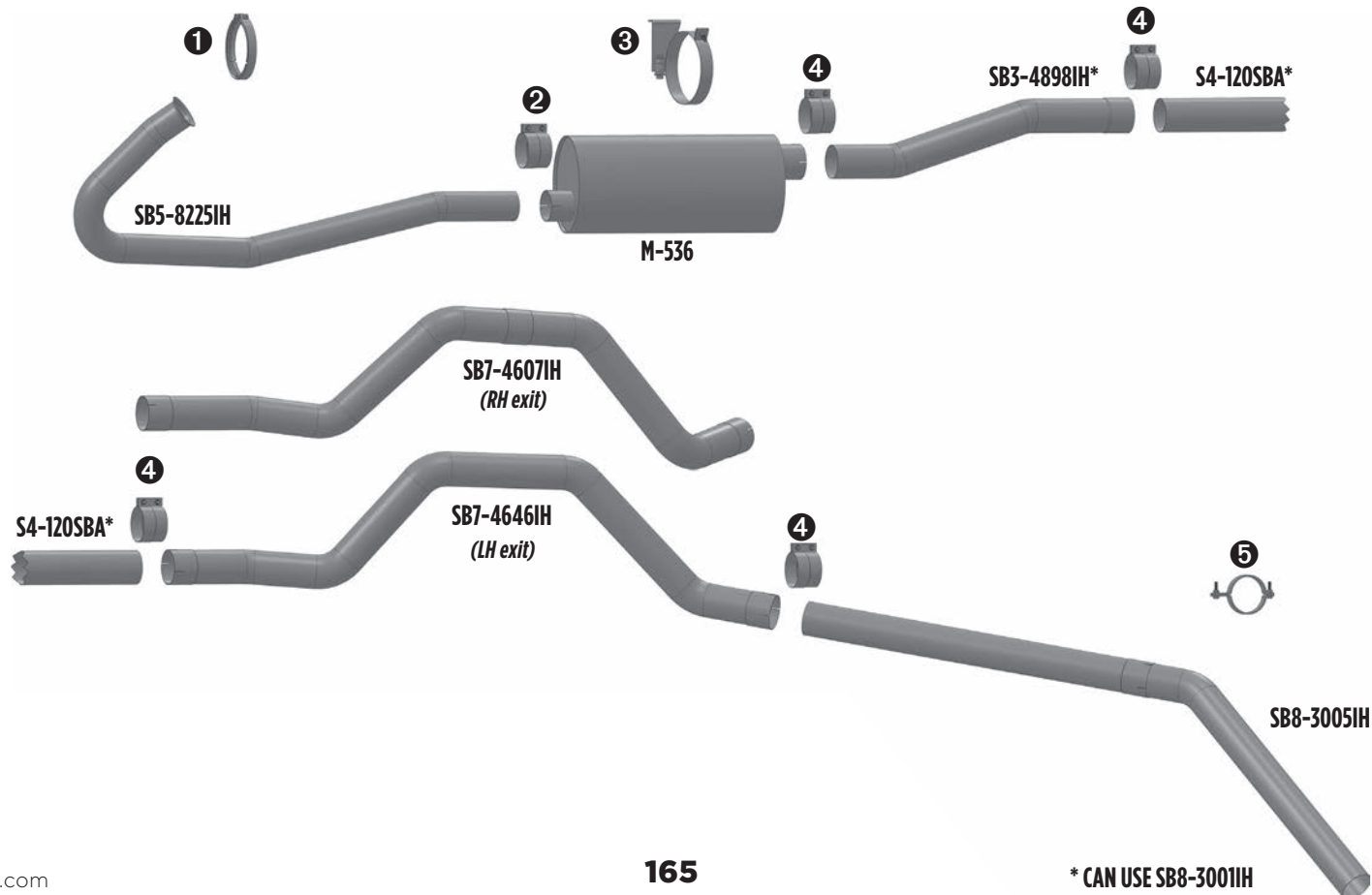
INTERNATIONAL SCHOOL BUS APPLICATIONS

INT631 - '87 - '93 6 Cyl. Series "S"; 3700, 3800; DT/DTA466 Diesel Eng.; w/ Mor-Ryde or Vari-Rate Susp.; exc. Allison MTB643 Auto. Trans.; Long Tail Pipe - Left Side Exit

'87 - '93 6 Cyl. Series "S"; 3700, 3800; DT/DTA466 Diesel Eng.; w/o Air Susp.; exc. Allison MTB643 Auto. Trans.; Long Tail Pipe - Right Side Exit

Clamps

- ① VB-350I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

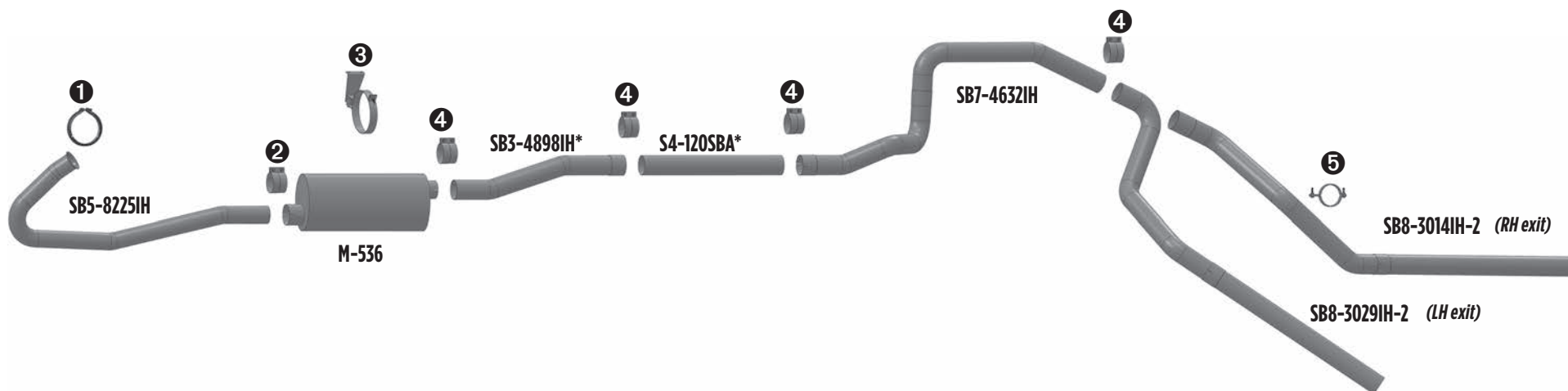


INT632 - '87 - '93 6 Cyl. Series "S"; 3700, 3800; DT/DTA466 Diesel Eng.; w. Air Susp.; exc. Allison MTB643 Auto. Trans.; Long Tail Pipe - Right Side Exit

Clamps

- ① VB-350I
- ② WFC-35SS
- ③ H-IHM6
- ④ WFC-4SS
- ⑤ H-IHP5

'87 - '93 6 Cyl. Series "S"; 3700, 3800; DT/DTA466 Diesel Eng.; w. Air Susp.; Long Tail Pipe - Left Side Exit

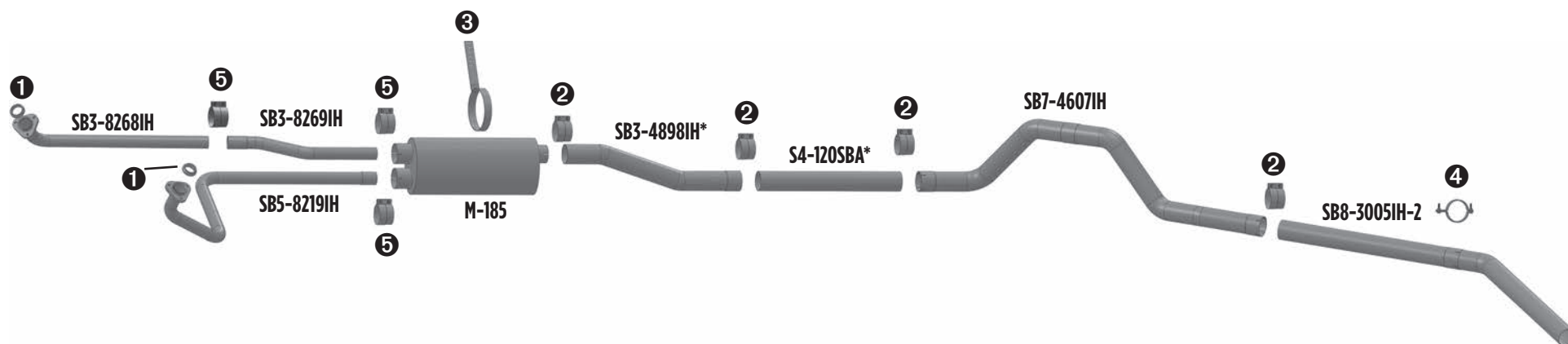


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT633 - '80 - '89 8 Cyl. Model 1853; 9.0L Diesel Eng.

Clamps

- ① G-IH3
- ② WFC-4SS
- ③ OMH-8511
- ④ H-IHP5
- ⑤ PF-275SS

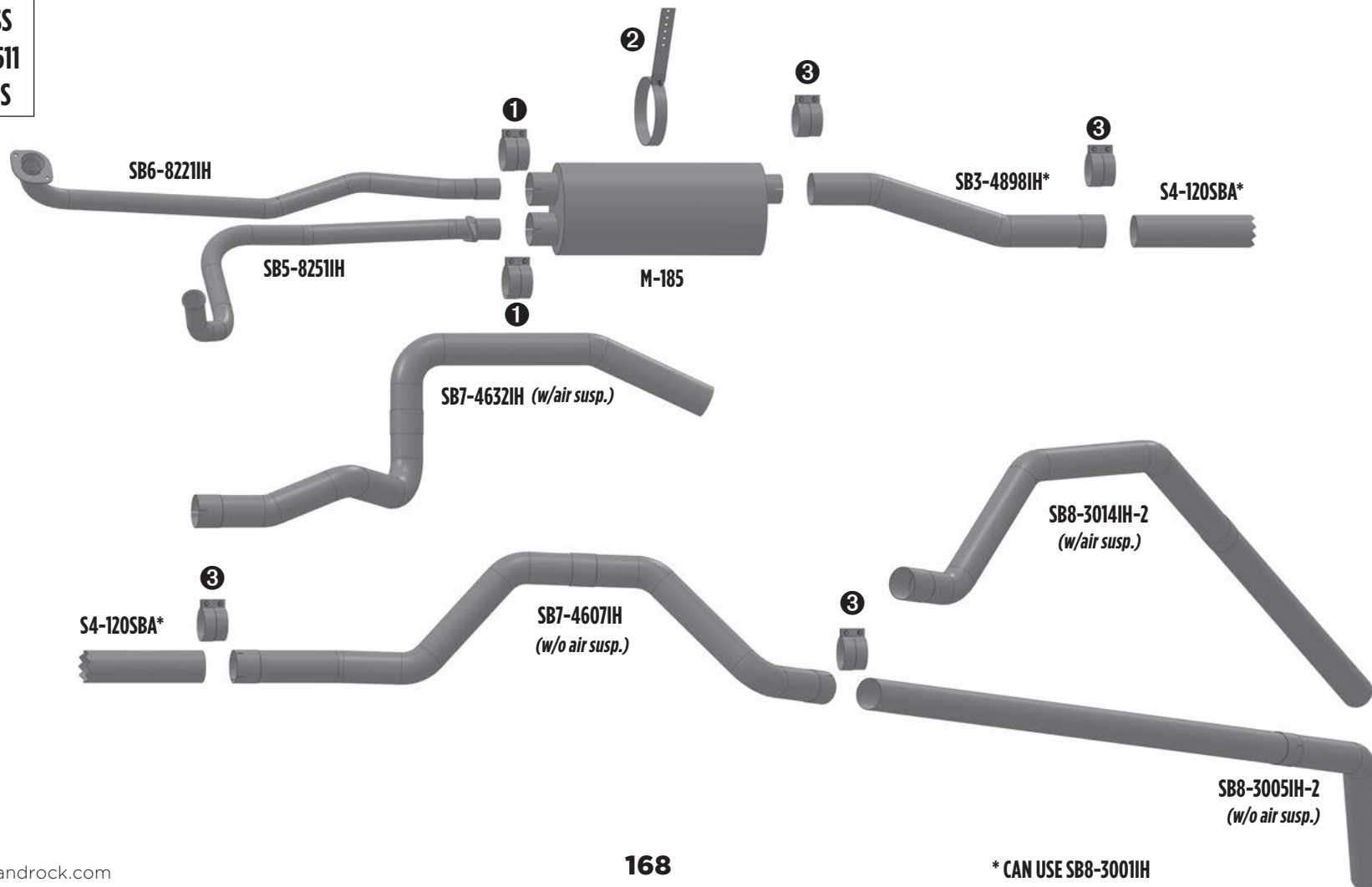


INT634 - '83 - '88 8 Cyl. Series "S"; 6.9L Diesel Eng.; w/o Air Susp.; RH Mounted Tail Pipe

'83 - '88 8 Cyl. Series "S"; 6.9L Diesel Eng.; w Air Susp.; RH Mounted Tail Pipe

Clamps

- ① PF-275SS
- ② OMH-8511
- ③ WFC-4SS

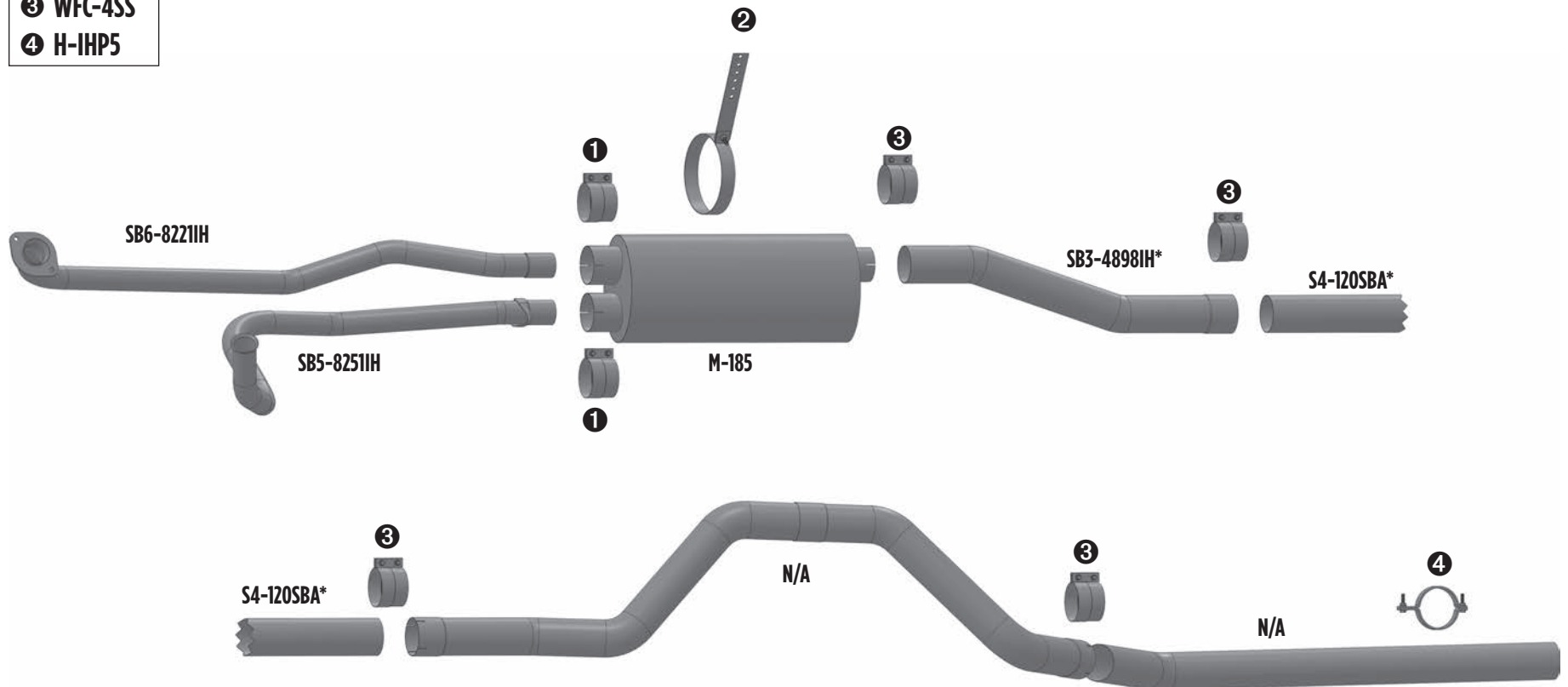


INTERNATIONAL SCHOOL BUS APPLICATIONS

INT635 - '83 - '88 8 Cyl. Series "S"; 6.9L Diesel Eng.; w/o Air Susp.; LH Mounted Tail Pipe '83 - '88 8 Cyl. Series "S"; 6.9L Diesel Eng.; w Air Susp.; LH Mounted Tail Pipe

Clamps

- ① PF-275SS
- ② OMH-8511
- ③ WFC-4SS
- ④ H-IHP5



* CAN USE SB8-3001IH

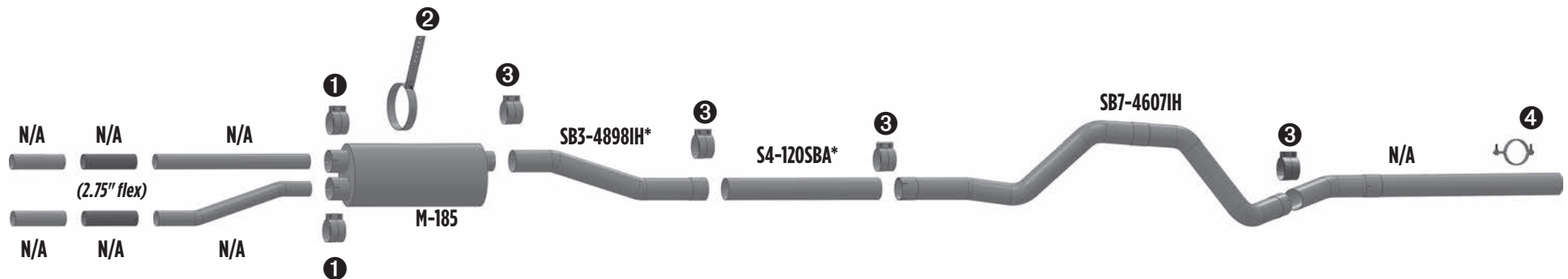
Many parts can be made available upon request. Certain restrictions, product availability, pricing, lead time and other variables exist. Please contact us for more information on these parts.

INTERNATIONAL SCHOOL BUS APPLICATIONS

INT636 - '80 - '87 8 Cyl. Model 1853; w/ 3208 Eng.

Clamps

- ❶ PF-275SS
- ❷ OMH-8511
- ❸ WFC-4SS
- ❹ H-IHP5



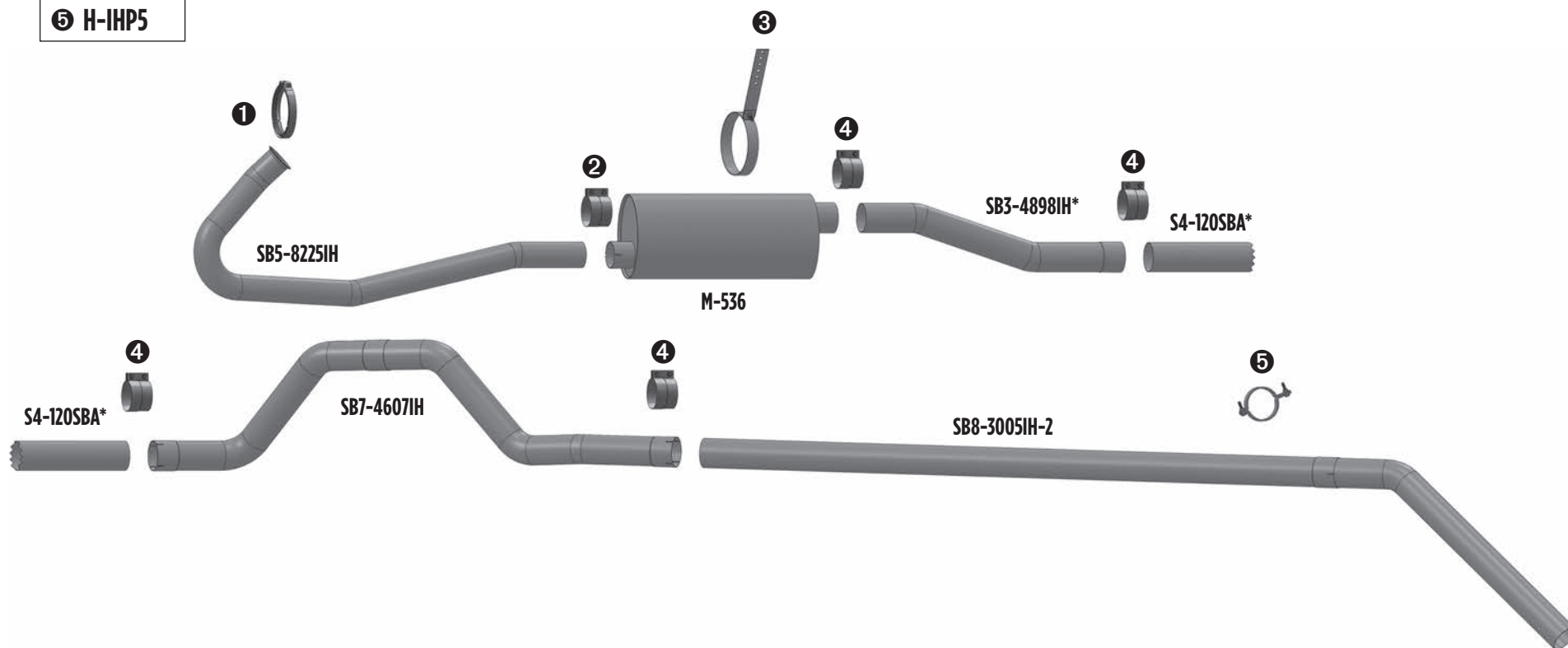
* CAN USE SB8-3001IH

INTERNATIONAL SCHOOL BUS APPLICATIONS

INT637 - '79 - '87 6 Cyl. Model 1853; DT466 Diesel Eng.

Clamps

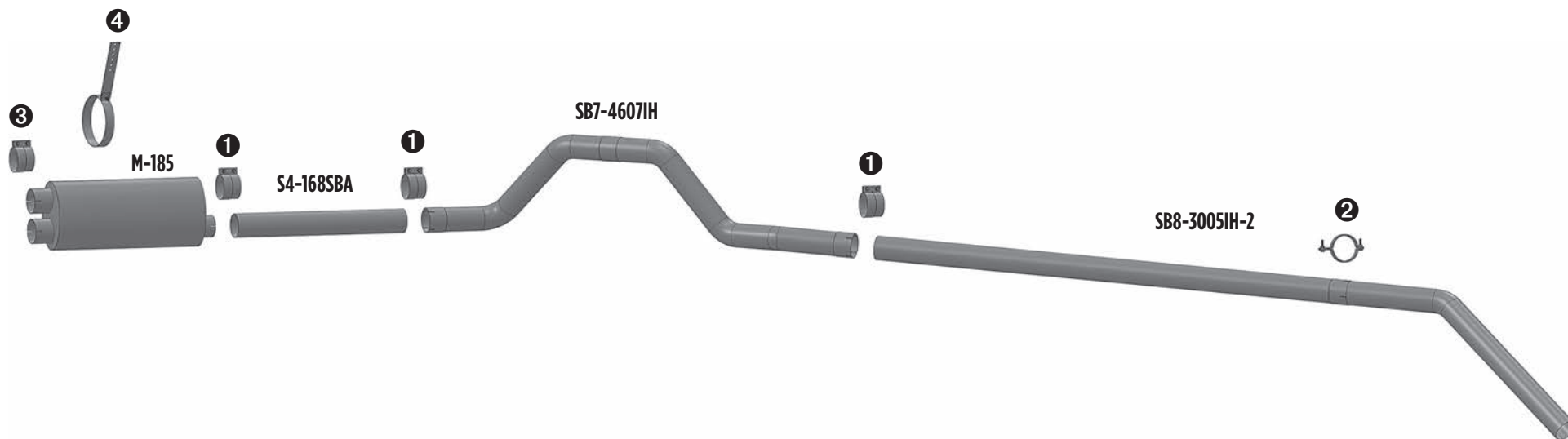
- ① VB-350I
- ② WFC-35SS
- ③ OMH-851I
- ④ WFC-4SS
- ⑤ H-IHP5



INT638 - 1979 8 Cyl. Models D150, D170, D190 After 1-10-79 (exc. Aux. Spicer 4 Speed Transmission Code 13552); 152", 170", 193", 218", 236", 254" & 276" W.B.

Clamps

- ❶ WFC-4SS
- ❷ H-IHP5
- ❸ PF-275SS
- ❹ OMH-8511



INTERNATIONAL SCHOOL BUS APPLICATIONS

UNIVERSAL NEW PARTS 2013

	GRAND ROCK PART NO.	OE PART NO.	DESCRIPTION	2 PIECE PIPE 2nd PART NEEDED
	SB12-0990IH	3580990C1	4" X 141.5" OD/OD PIPE	
	SB3-4504IH	2004504C1	86-94 SCHOOL BUS AND MEDIUM DUTY TRUCK TURBO PIPE; 3.5" 2 BEND TURBO PIPE 86 AND UP DT 466 MEDIUM DUTY TRUCK/ 91 TO 94 DT 466 SCHOOL BUS	
	SB3-5589IH	3815589C1	07 AND UP IH IC REAR ENGINE TAILPIPE 6" S.S.; 6" ALZ. 2 BEND W/HANGER & CLAMP; ID/OD	

THOMAS SCHOOL BUS APPLICATIONS

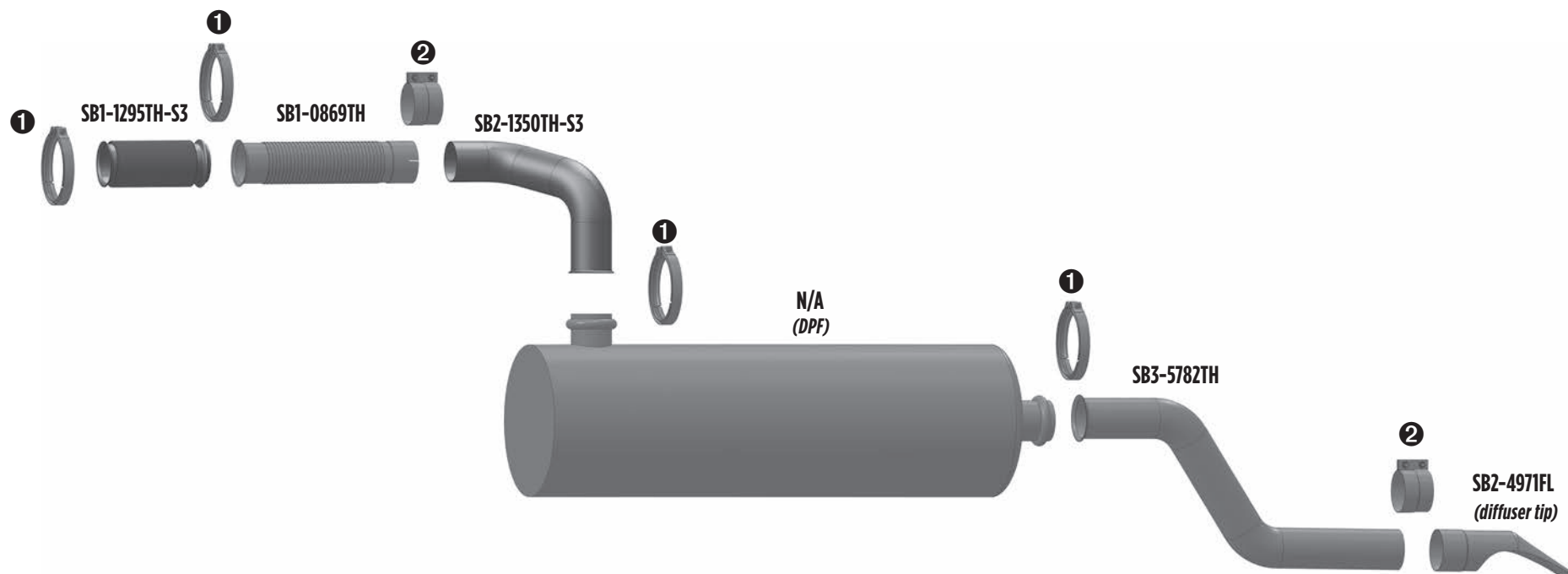
**GRAND
ROCK**

TH696 - '07 - '10 6 Cyl. Thomas Rear Engine Pusher w/ Mercedes MBE07 Engine w/ DPF

Clamps

① VB-460MB

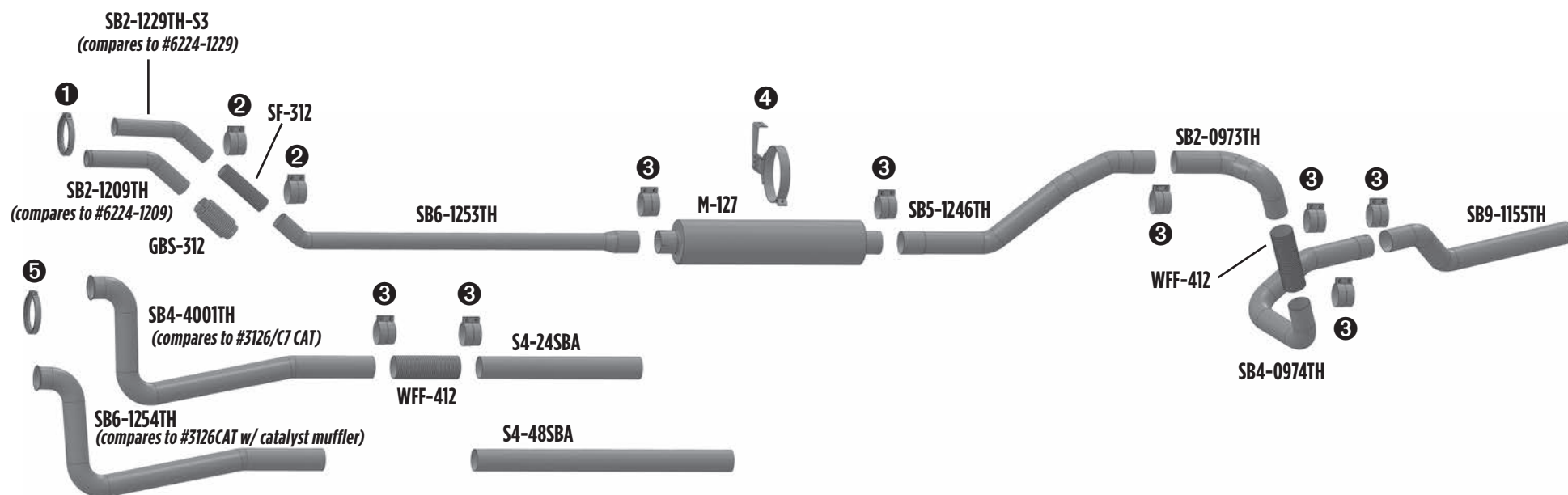
② WFC-4SS



TH697 - '04 - '07 6 Cyl. Thomas MVP E-F, B Series Cummins Engine Forward, CAT 3126 & C7

Clamps

- ① VB-321C
- ② WFC-3SS
- ③ WFC-4SS
- ④ H-THM1249
- ⑤ VB-461D

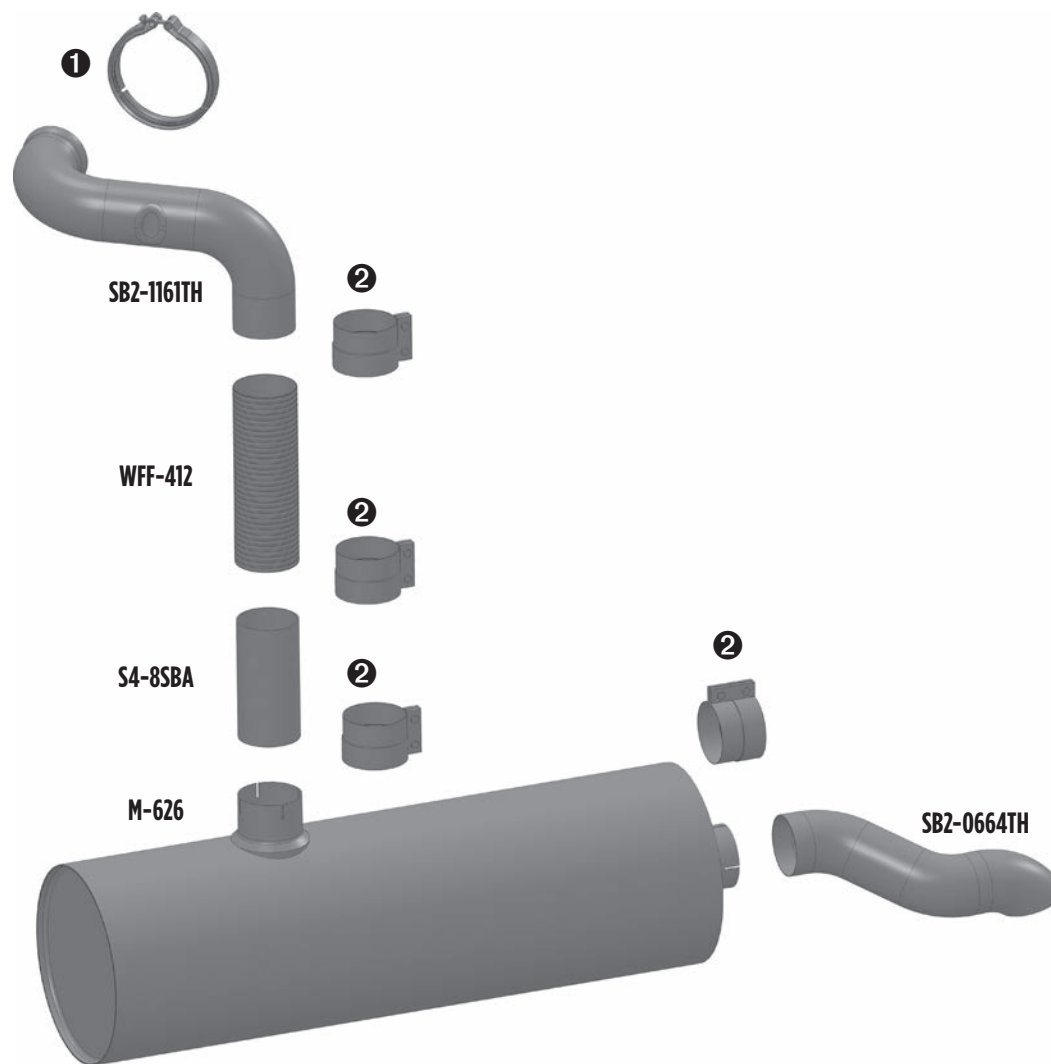


TH699 - '03 - '07 6 Cyl. Thomas Pusher w/ Mercedes Diesel Engine, SAF-T-LINER

Clamps

① VB-461D

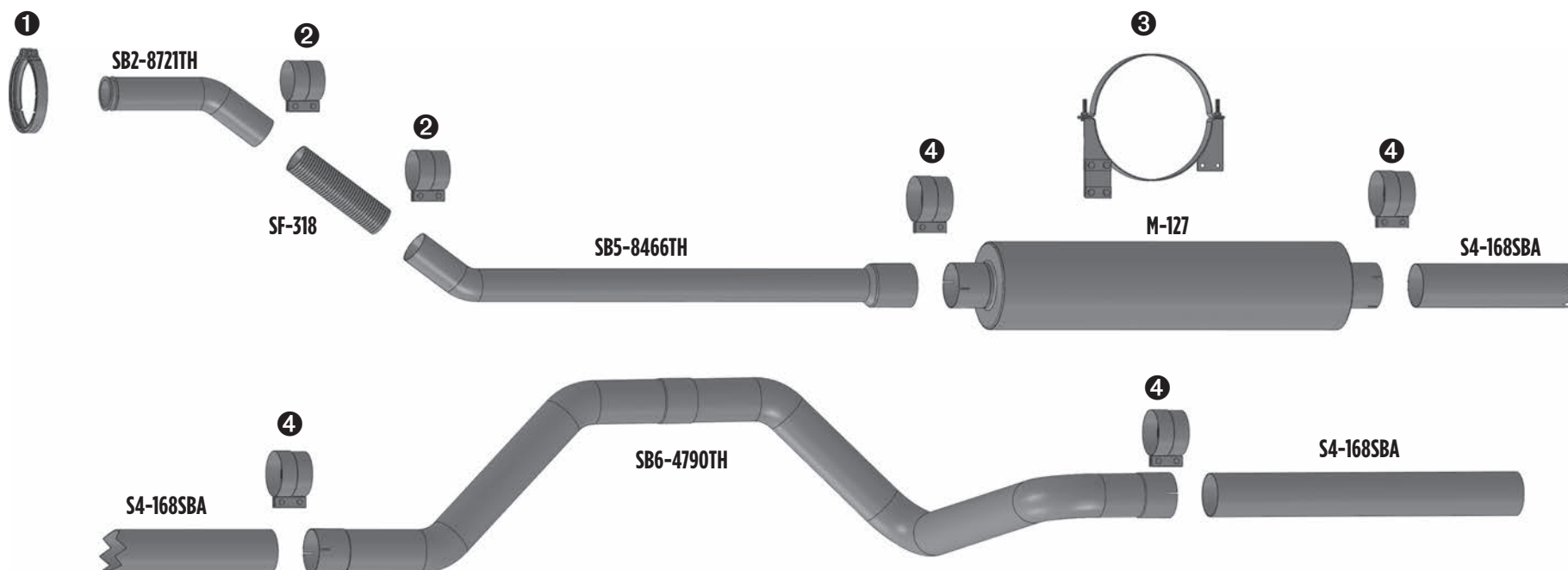
② WFC-4SS



TH700 - '98 - '02 6 Cyl. Thomas MVP E-F, B-Series Cummins Engine Forward

Clamps

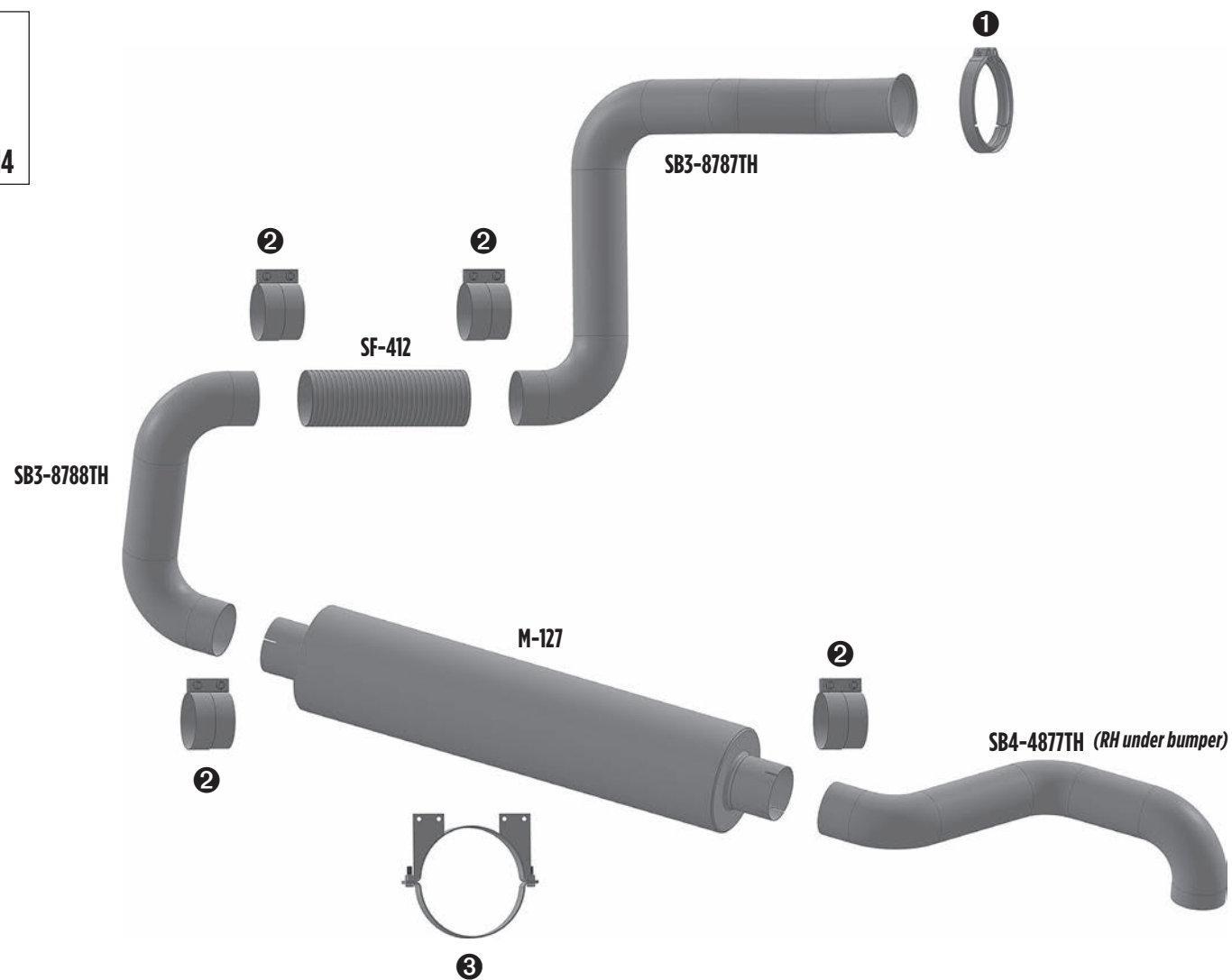
- ① VB-321C
- ② WFC-3SS
- ③ H-THM1
- ④ WFC-4SS



TH701 - '98 - '01 6 Cyl. Thomas Pusher 3126 Cat. Eng.

Clamps

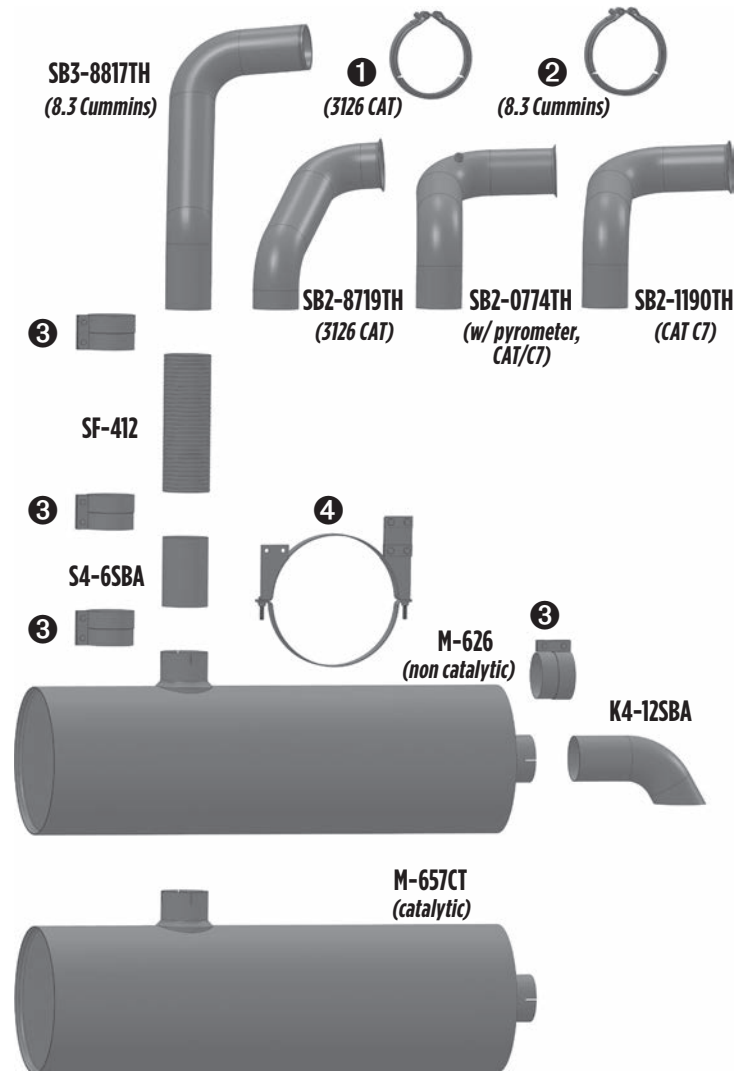
- ① VB-461D
- ② WFC-4SS
- ③ H-THM0514



TH702 - '98 - '01 6 Cyl. SAF-T-Liner w/ 3126, C7 CAT Engine, 8.3L Cummins Engine

Clamps

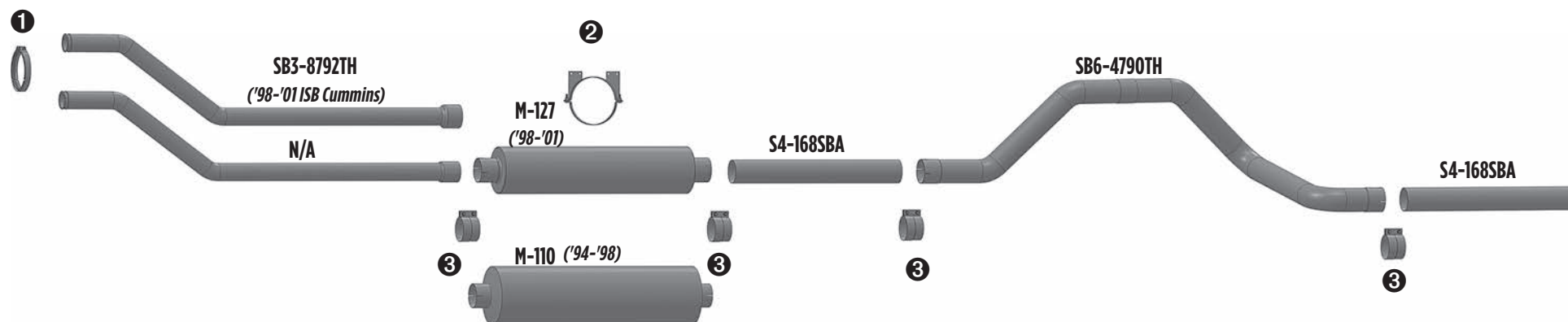
- ① VB-461D
- ② VB-413C
- ③ WFC-4SS
- ④ H-THM2



TH703 - '94 - '01 6 Cyl. Thomas MVP E-F, B-Series Cummins (Non-Catalytic Muffler)

Clamps

- ① VB-321C
- ② H-THM0514
- ③ WFC-4SS

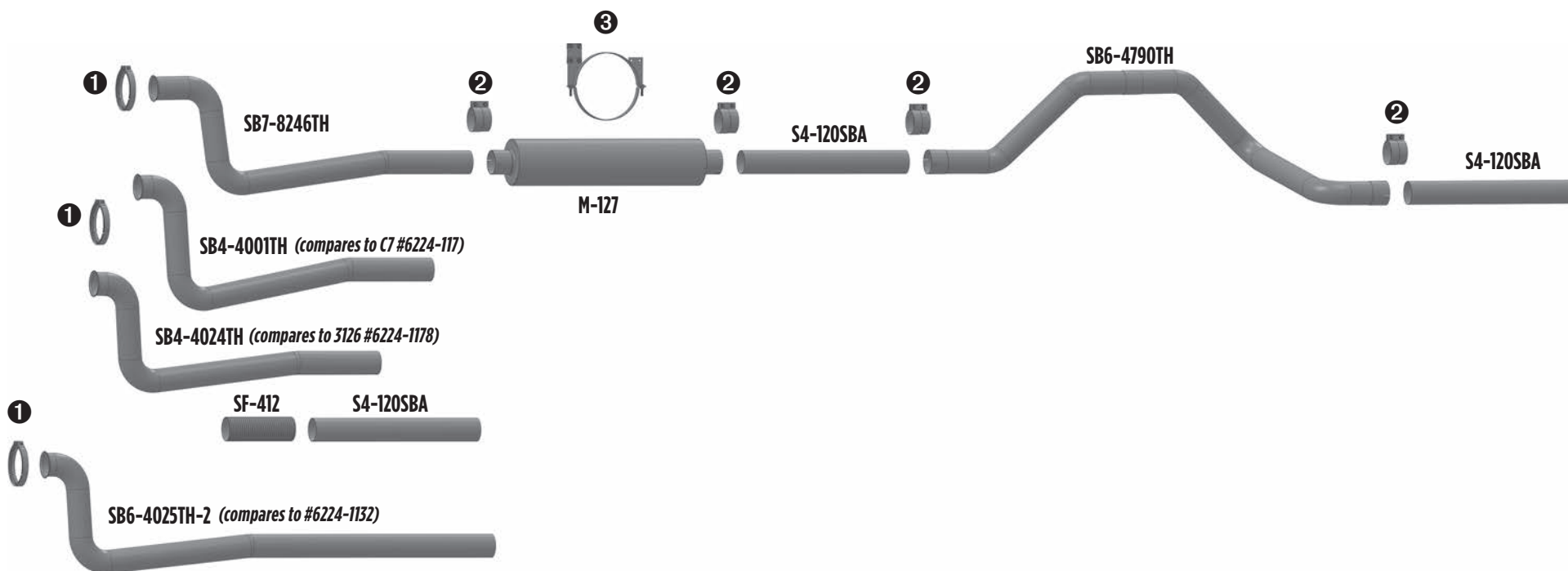


* SEE PAGES 191 & 192 FOR OVER AXLES AND TAILPIPE OPTIONS

TH704 - '97 - '00 6 Cyl. Thomas MVP E-F, 3126, C7 Caterpillar Engine Forward

Clamps

- ① VB-461D
- ② WFC-4SS
- ③ H-THM1

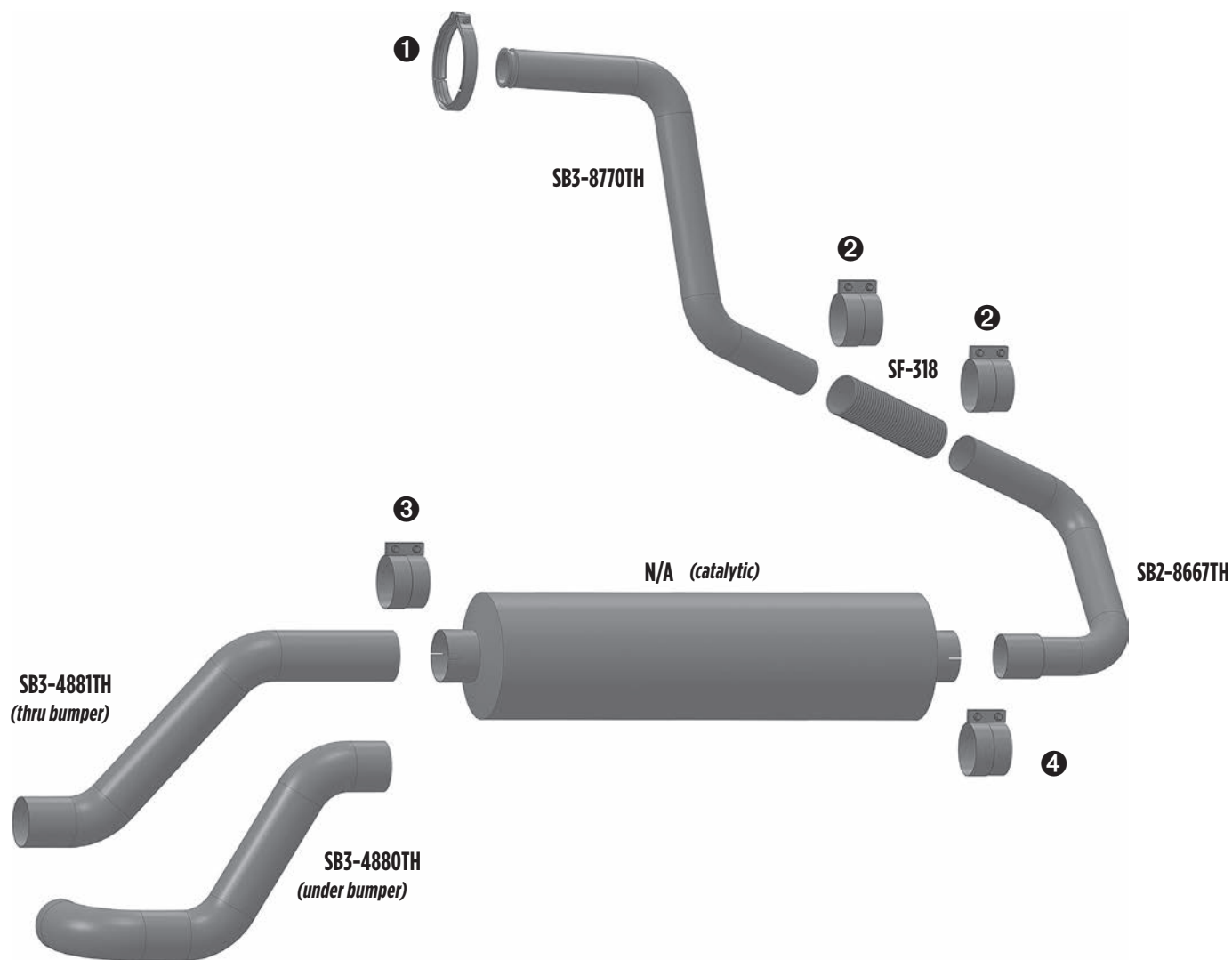


*** SEE PAGES 191 & 192 FOR AIR RIDE OVERAXLES AND SIDE EXIT TAILPIPES.
100 GAL. FUEL TANK USE 2 PIECES OVERAXLE PIPES ON PAGES 191 & 192 FOR EASY INSTALLATION**

TH705 - '97 - '98 6 Cyl. MVP-ER Model; w/ 5.9L Cummins Turbo Diesel; Rear Eng.; RH Rear Exit Tail Pipe

Clamps

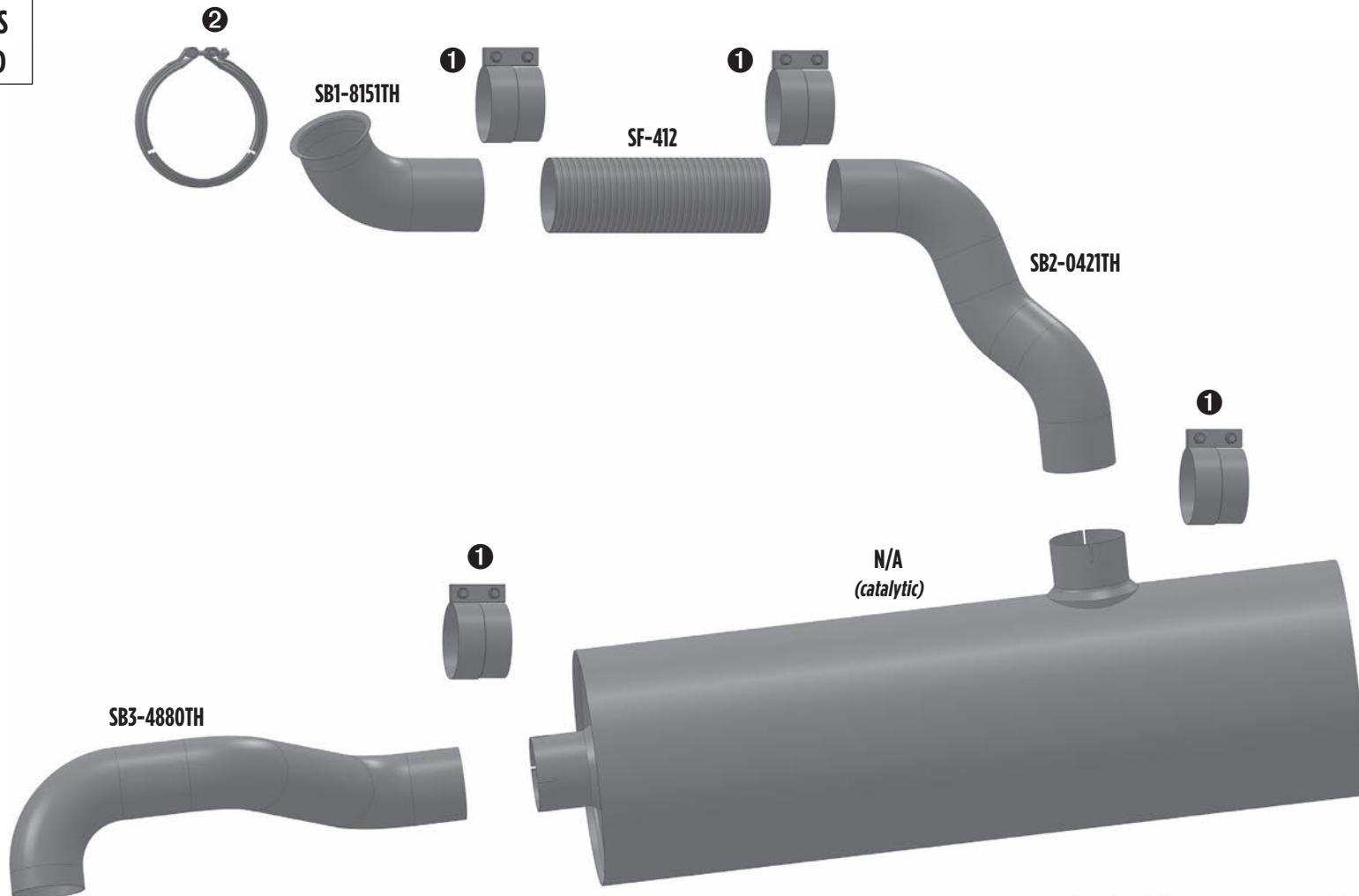
- ① VB-321C
- ② WFC-3SS
- ③ WFC-4SS
- ④ WFC-35SS



TH706 - '94 - '98 MVP-ER Model w/ CAT 3116 Turbo Diesel Rear Engine RH Below Bumper Exit

Clamps

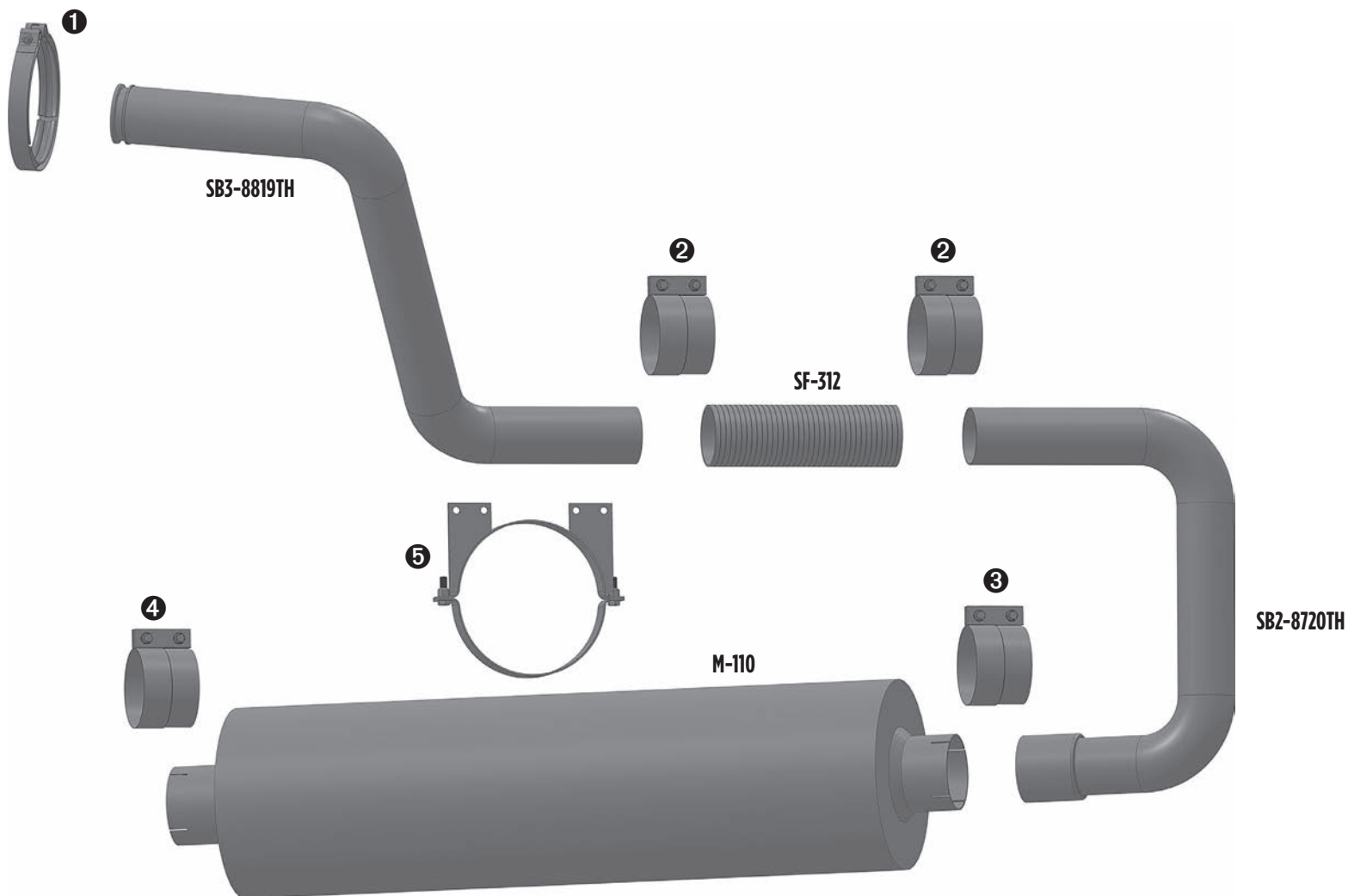
- ① WFC-4SS
- ② VB-461D



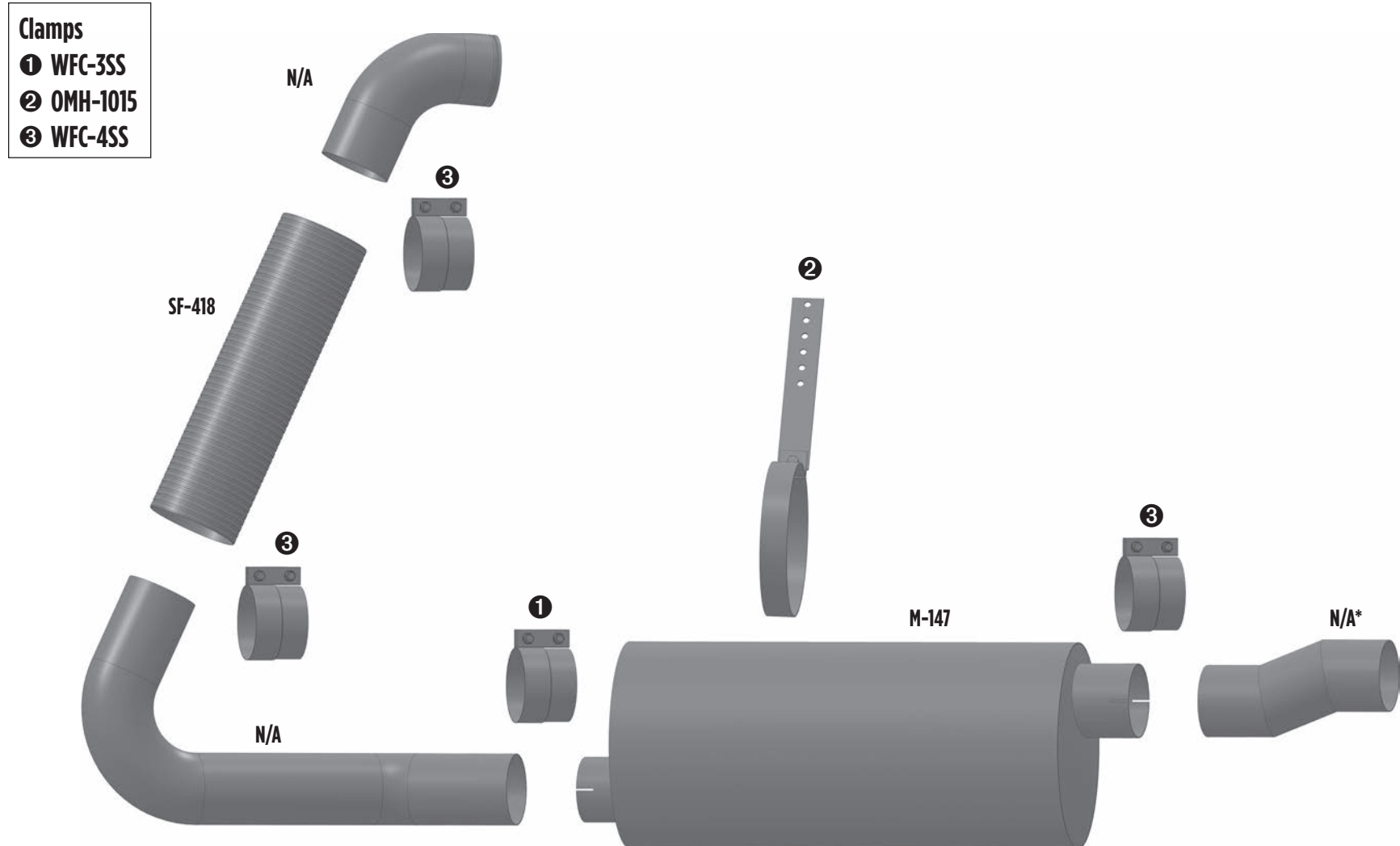
TH707 - '96 - '98 6 Cyl. Rear Engine Models w/ B-Series Cummins Engine w/ Standard Muffler

Clamps

- ① VB-321C
- ② WFC-3SS
- ③ WFC-35SS
- ④ WFC-4SS
- ⑤ H-THM0514



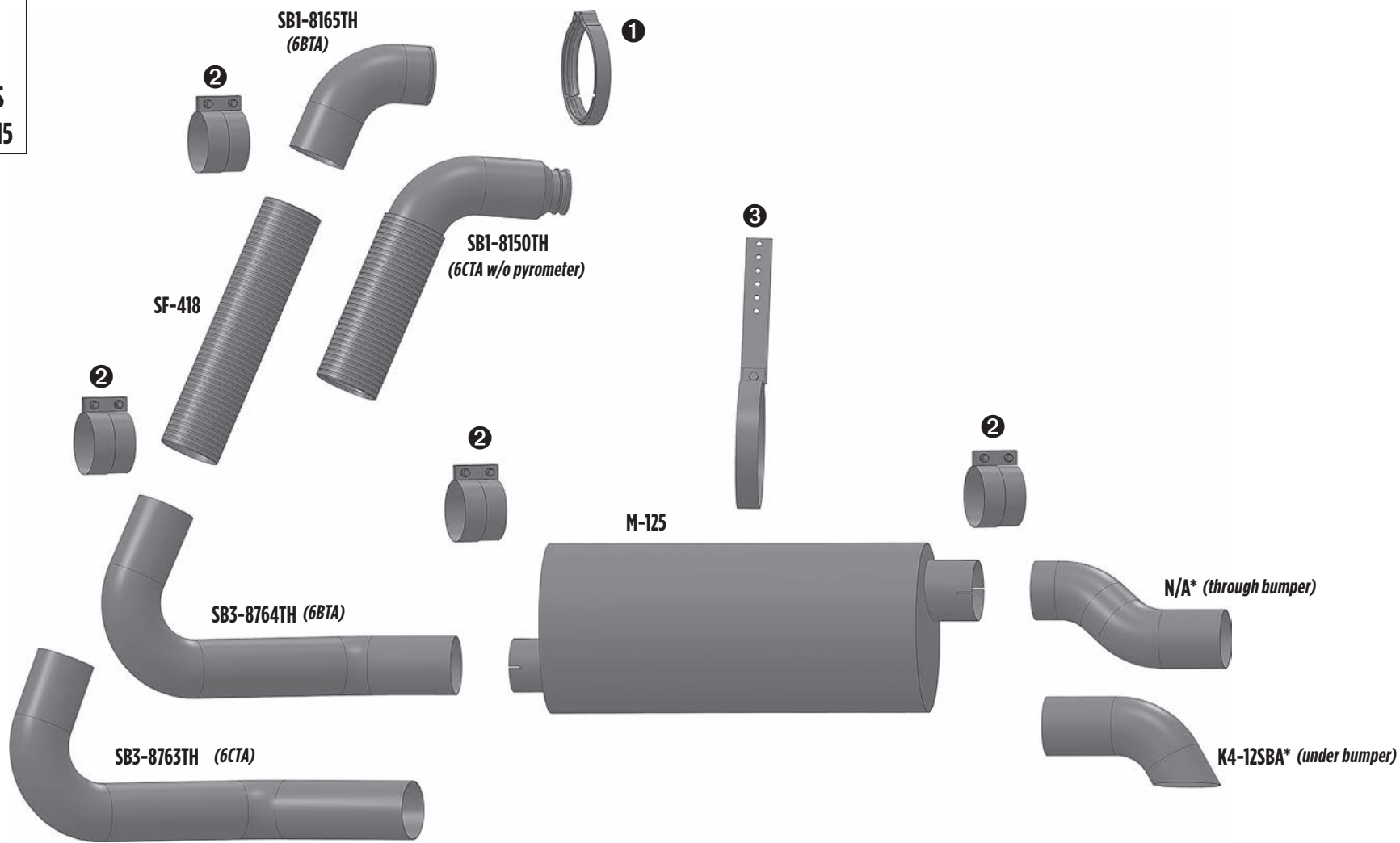
TH709 - '90 - '93 6 Cyl. Saf-T-Liner w/ 6V92 Rear Engine Model; Rear Exit Tail Pipe



TH710 - '89 - '93 6 Cyl. All models w/ Cummins 6BTA, 6CTA; Rear Eng.; Rear Exit Tail Pipe

Clamps

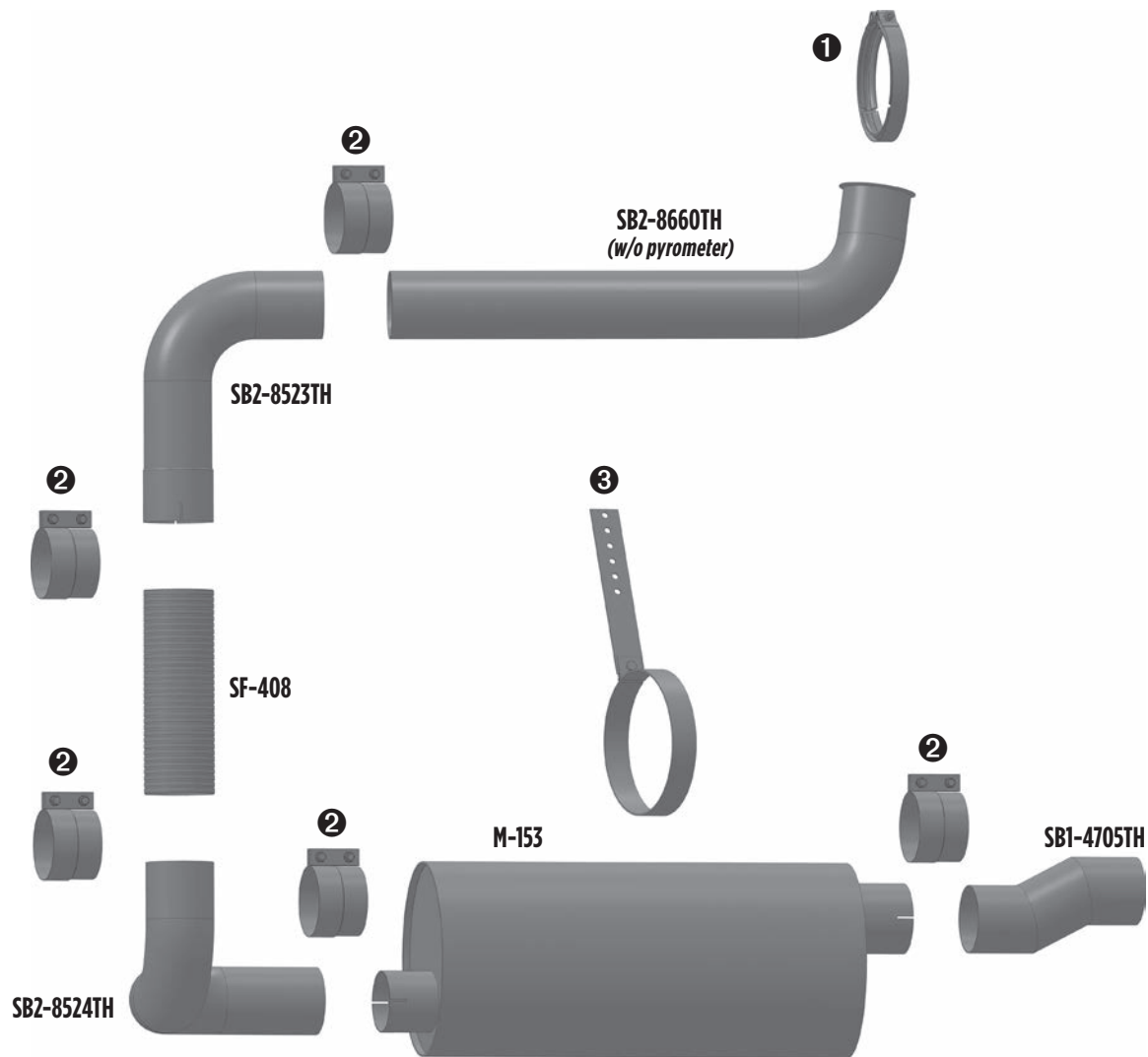
- ① N/A
- ② WFC-4SS
- ③ OMH-1015



TH712 - '89 - '93 8 Cyl. Saf-T-Liner w/ 8.2L Turbo Diesel; Rear Eng. Model; Rear Exit Tail Pipe

Clamps

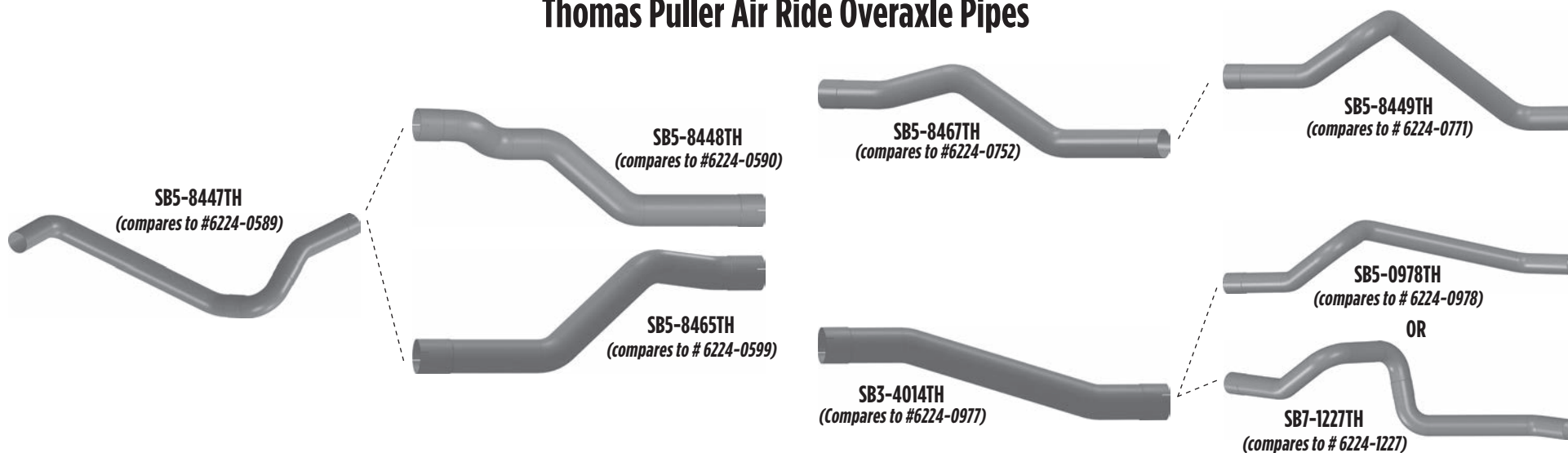
- ① VB-475D
- ② WFC-4SS
- ③ OMH-8511



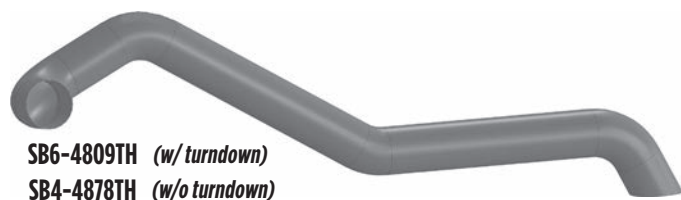
UNIVERSAL NEW PARTS 2013

	GRAND ROCK PART NO.	OE PART NO.	DESCRIPTION	2 PIECE PIPE 2nd PART NEEDED
	SB1-0794TH	6224-0794	THOMAS TAILSPOUT 6 CG ER TRANSIT	
	SB2-0324TH	6224-0324	THOMAS 4" 2 BEND OD/OD PIPE EXTENSION PIPE 8.2L DDA; 4" 2 BEND OD/OD PIPE	
	SB10-0954TH-2	6224-0954	THOMAS PULLER TROUGH BUMPER TAILPIPE CUT TO FIT	S4-80EXA WFC-4A

Thomas Puller Air Ride Overaxle Pipes



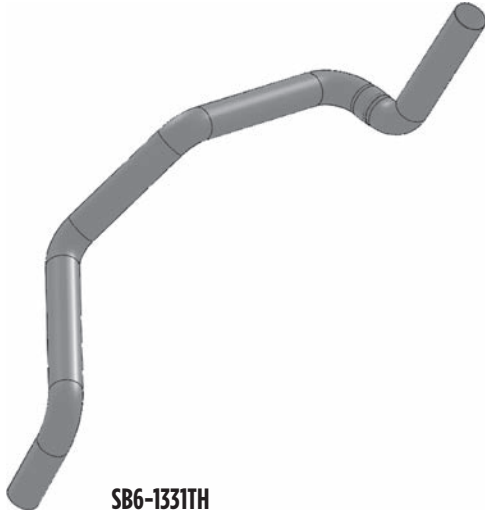
Thomas MVP 4" Side Exit Tail Pipe



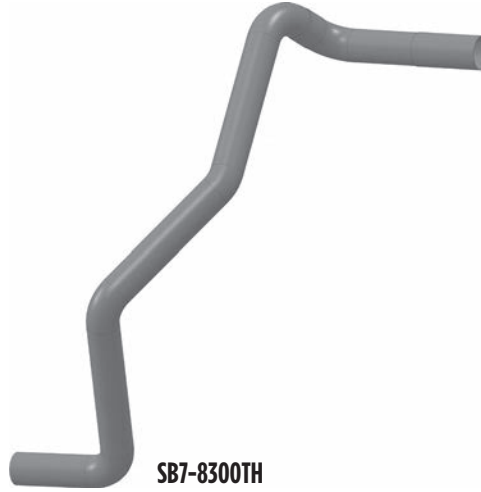
Thomas MVP Pusher - Tail Pipe Options



'07-'10 Thomas Tailpipes Spring Susp. Rear Over Axle



SB6-1331TH
(compares to # 131331)



SB7-8300TH
(compares to # 138300)

NUMERICAL LISTING



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S5-24SBA	STACK STRAIGHT,5"X24,OD/OD ALZ	11
S5-36EXA	STACK STRAIGHT,5"X36,ID/OD ALZ	11
S5-36SBA	STACK STRAIGHT,5"X36,OD/OD ALZ	11
S5-48EXA	STACK STRAIGHT,5"X48,ID/OD ALZ	11
S5-48SBA	STACK STRAIGHT,5"X48,OD/OD ALZ	11
S5-60EXA	STACK STRAIGHT,5"X60,ID/OD ALZ	11
S5-60SBA	STACK STRAIGHT,5"X60,OD/OD ALZ	11
S5-72EXA	STACK STRAIGHT,5"X72,ID/OD ALZ	11
S5-72SBA	STACK STRAIGHT,5"X72,OD/OD ALZ	11
S5-8SBA	CONNECTORS O.D.-O.D.	16
S6-120EXEXA	STACK STRAIGHT,6"X120,ID/ID ALZ	12
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S7-120SBA	TUBE,7"X120,OD/OD ALZ	12
S7-8SBA	CONNECTORS O.D.-O.D.	16
S8-120SBA	TUBE,8"X120,OD/OD ALZ	12
S8-8SBA	CONNECTORS O.D.-O.D.	16
SB10-0954TH-2	4"2 BEND 2 PC PIPE ALZ	190
SB1-0434FL	STACK,4"X13 ID ALZ	121
SB1-0702BB-S4	4" 409 ALZ SS 2 BEND W/LIST MARM&FLANGE	62
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SB1-0869TH	EMISSION,4"X12 SS	176
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SB1-1295TH-S3	CONNECTOR SS WITH HEAT WRAP	176
SB12-0990IH	4"X141.5 OD/OD PIPE	173
SB1-4705TH	4"2-MITER/BEND OD/OD ALZ	176
SB1-8150TH	ELBOW,4"70DEG OD/FLANGE ALZ	188
SB1-8151TH	ELBOW,4"66DEG OD/FARE ALZ	185
SB1-8155BB	4"2-BEND OD/FLARS ALZ	66
SB1-8165TH	ELBOW,4"70DEG FLEX/R3"FLARE ALZ	188
SB1-8173BB	ELBOW,3"90DEG OD/FLARE ALZ	74
SB1-8998BB-S3	EMISSIONS,2.5"X12 ID/FLARE SS	62
SB1-9851BB-S3	4" 304 SS FLEX W/FLARE, CN ID/OD	62
SB2-0324TH	4"2-BEND OD/FLARE ALZ	190
SB2-0421TH	4"3-BEND OD/OD ALZ	185
SB2-0451BB-S4	BLUEBIRD PIPE	63
SB2-0664TH	4"3-BEND OD/MITER ALZ	178
SB2-0700BB-S4	2.5" 409 SS 3 BEND TURBO PIPE OD/OD	62
SB2-0774TH	4"2-BEND OD/FLARE PYRO ALZ	181
SB2-0973TH	4"2-BEND OD/OD ALZ	177
SB2-1010BB	4"2-BEND ID/FLARE ALZ	66
SB2-1015FL	4"2-BEND OD/FLARE ALZ	124
SB2-1161TH	4"2-BEND OD/FLARE FLAT ALZ	178
SB2-1190TH	4"2-BEND OD/FLARE ALZ	181
SB2-1209TH	ELBOW,3"38DEG OD/FLANGE ALZ	177
SB2-1229TH-S3	ELBOW,3"37DEG OD/FLARE SS	177
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SB2-3526BB	3"3-BEND OD/FLARE ALZ	61
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SB2-4073BB	BLUEBIRD TURBO PIPE	60
SB2-4971FL	4" DIFFUSER TIP	124
SB2-4977BB	4"2-BEND ID/ID ALZ	80
SB2-4978BB	5"2-BEND ID/OD ALZ	75
SB2-4985TH	4"2-BEND OD/OD ALZ	191
SB2-4997FL	ELBOW,4"45DEG ID/OD ALZ	125
SB2-5375FL	4"2-BEND ID/OD ALZ	127
SB2-6918GM	GM PIPE	100
SB2-8188BB	3" 90 DEG ELBOW	65
SB2-8425BB	REDUCER,4"X13 OD/R3"ID ALZ	74
SB2-8523TH	ELBOW,4"90DEG ID/OD ALZ	189
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SB2-8668BB	4"2-BEND OD/OD ALZ	76
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SB2-8674BB	ELBOW,79DEG OD/OD ALZ	64
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SB3-1015FL	4"2-BEND OD/FLARE ALZ	124
SB3-2271BB	3" 3 BEND ALZ TURBO PIPE	65
SB3-4003IH	ELBOW,3.5"23DEG OD/ID ALZ	136
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SB3-4798BB	4"2-BEND ID/OD ALZ	92
SB3-4799BB	4"2-BEND ID/OD ALZ	92
SB3-4813BB	4"2-BEND OD/R3"OD ALZ	87
SB3-4879BB	4"2-BEND ID/OD ALZ	78
SB3-4880TH	4"3-BEND OD/OD ALZ	184
SB3-4881TH	4"2-BEND OD/OD ALZ	184
SB3-4883IH	ELBOW,4"82DEG OD/OD ALZ	116
SB3-4884BB	4"2-BEND ID/OD ALZ	80
SB3-4885BB	4"3-BEND ID/OD ALZ	77
SB3-4886BB	4"2-BEND ID/OD ALZ	77
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SB3-4903BB	4"2-BEND ID/OD ALZ	74
SB3-4904BB	4"2-BEND ID/MITER ALZ	69
SB3-4905BB	4"2-BEND ID/OD ALZ	69
SB3-4907BB	4"2-BEND ID/OD ALZ	69
SB3-4910BB	4"2-BEND ID/FLARE ALZ	69
SB3-5310BB	4" ALZ, 2-BEND W/MITER, ID/OD	69
SB3-5313BB	4"2-BEND ID/OD ALZ	69
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SB3-5782TH	4"2-BEND OD/FLARE ALZ	176
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SB3-8170BB	BLUEBIRD PIPE	65
SB3-8268IH	EXHAUST PIPE ALZ	167
SB3-8269IH	2.5"2-BEND ID/OD ALZ	167
SB3-8763TH	4"2-BEND OD/OD ALZ	188
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SB3-8770TH	3"2-BEND OD/FLANGE ALZ	184
SB3-8772BB	4"4-BEND OD/FLARE SHEILD ALZ	76
SB3-8773BB	4"2-BEND ID/OD ALZ	76
SB3-8774BB	4"2-BEND OD/FLARE SHIELD ALZ	79
SB3-8782BB	4"2-BEND OD/FLARE ALZ	64
SB3-8787TH	4"4-BEND OD/FLARE PYRO ALZ	180
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SB3-8792TH	3"2-BEND 4"OD/FLANGE ALZ	182
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SB3-8796BB	4"2-BEND OD/FLARE SHIELD ALZ	94
SB3-8816BB	3"3-BEND OD/OD ALZ	70
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SB3-8847IH	3.5"3-BEND OD/FLARE ALZ	143
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SB3-8871GM	H.D. EXHAUST PIPE; CHEVROLET/GMC	104
SB3-8876IH	3.5"4-BEND OD/FLARE ALZ	137
SB3-9863BB	3"5-BEND 4"OD/3"FLANGE ALZ	69
SB4-0701BB-S4	4"3-BEND OD/FLARE SS	62
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SB4-4016BB	5"2-BEND OD/MITER ALZ	67
SB4-4018BB-2	4"3-BEND ID/OD ALZ	68
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SB4-4022IH	4"2-BEND ID/OD ALZ	136
SB4-4024TH	4"3-BEND OD/FLARE ALZ	183
SB4-4026TH	4"2-BEND OD/OD ALZ	191
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SB4-4869BB	4"2-BEND ID/OD ALZ	77
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SB4-4877TH	4"3-BEND OD/OD ALZ	191
SB4-4878TH	4"3-BEND ID/OD ALZ	191
SB4-4879TH	4"2-BEND OD/OD ALZ	191
SB4-4888IH	ELBOW, 4" 90DEG ID/OD ALZ	138
SB4-4892IH	4"2-BEND ID/OD FLAT ALZ	134
SB4-5202GM	2.75"5-BEND ID/OD HANGER ALZ	101
SB4-7094BB	4"2-BEND MITER/5" FLARE ALZ	62
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SB4-8552IH	3.5"3-BEND OD/FLARE FLAT ALZ	152
SB4-8554IH	3.5"2-BEND OD/OD ALZ	147
SB4-8557FL	3"2-BEND OD/FLARE ALZ	125
SB4-8560IH	H.D. EXHAUST PIPE; INTERNATIONAL	152
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SB4-8565IH	3.5"2-BEND OD/OD ALZ	153
SB4-8566BB	4"4-BEND OD/5" ID ALZ	81
SB4-8569IH	4"3-BEND ID/OD ALZ	130
SB4-8570BB	5"2-BEND ID/OD ALZ	81
SB4-8571FT	4"2-B3ND ID/OD ALZ	116
SB4-8572BB	4"2-BEND ID/OD ALZ	76
SB4-8573BB	3"2-BEND OD/OD SS	80
SB4-8574BB	3"2-BEND OD/5" OD ALZ	77
SB4-8583GM	2.5"5-BEND OD/FLARE FLAT ALZ	71
SB4-8594IH	3.5"2-BEND ID/OD ALZ	138
SB4-8621GM	2.5"6-BEND FLARE/FLARE ALZ	104
SB4-9439BB	4"2-BEND OD/MITER ALZ	63
SB5-1044IH	STRAIGHT, 4" X12 ID/OD ALZ	135
SB5-1246TH	4"4-BEND ID/ID ALZ	177
SB5-1454FL	4"4-BEND OD/OD ALZ	127
SB5-2581FL	4"4-BEND ID/OD ALZ	124
SB5-3629IH	4"2-BEND ID/OD FLAT ALZ	135
SB5-3637IH	3.5"2-BEND ID/OD ALZ	135
SB5-4006IH	3.5"4-BEND OD/FLARE FLAT ALZ	138
SB5-4015BB	4"2-BEND ID/ID ALZ	61
SB5-4020IH	3.5"2-BEND ID/OD ALZ	134
SB5-4129BB	4"2-BEND ID/OD ALZ	93
SB5-4130BB	4"3-BEND ID/OD ALZ	78
SB5-4132IH	4"2-BEND OD/OD ALZ	143
SB5-4133BB	4"5-BEND ID/ID ALZ	71
SB5-4134BB-2	TWO PIECE - H.D. TAIL PIPE; BLUEBIRD	103
SB5-4135BB	4"2-BEND ID/OD ALZ	94
SB5-4138BB-2	5"3-BEND ID/OD EXT ALZ	75
SB5-4143BB	4"3-BEND ID/OD ALZ	80
SB5-4163BB	4"2-BEND OD/MITER ALZ	70
SB5-4166FL	4"2-BEND ID/OD ALZ	121
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SB5-4173BB	4"3-BEND ID/ID ALZ	61
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SB5-5479FL-2	4"2-BEND ID/OD ALZ	120
SB5-5480IH	4"4-BEND ID/ID ALZ	135
SB5-5563FL	3.5"3-BEND 4" ID/FLARE ALZ	121
SB5-5566FL	3.5"3-BEND 4" OD/FLARE ALZ	124
SB5-6142BB	4"3-BEND OD/OD ALZ	69
SB5-6174FL	STRAIGHT, 4" X50 ID/OD ALZ	120
SB5-6193IH	3.5"6-BEND OD/FLARE ALZ	146
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SB5-8251IH	2.5"5-BEND 2.75" OD/3.5" ID ALZ	168
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SB5-8420IH	3"7-BEND 3.5" OD/FLARE ALZ	144
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SB5-8422IH	3.5"4-BEND OD/FLARE ALZ	145
SB5-8423FT	4"3-BEND OD/R3" FLARE ALZ	116
SB5-8424BB	4"3-BEND OD/OD ALZ	61
SB5-8424BB-2	4"3-BEND OD/OD EXT ALZ	75
SB5-8443IH	3"3-BEND 3.5" OD/FLARE ALZ	143
SB5-8447TH	4"4-BEND ID/OD ALZ	191
SB5-8448TH	4"4-BEND ID/ID ALZ	191
SB5-8449TH	4"4-BEND OD/ID ALZ	191
SB5-8457BB	2.5"5-BEND OD/FRARE SHIELD ALZ	71
SB5-8464FL	4"3-BEND OD/FLARE FLAT ALZ	120
SB5-8465TH	4"3-BEND ID/ID ALZ	191
SB5-8466TH	ELBOW, 3" 35DEG OD/4" OD ALZ	179
SB5-8467TH	4"3-BEND ID/ID ALZ	191
SB5-8468FL	4"3-BEND OD/FLARE FLAT ALZ	120
SB5-8471FL	3"3-BEND OD/FLARE ALZ	121
SB5-8479FL	3"2-BEND OD/FLARE ALZ	122
SB5-8482FL	4"4-BEND FLARE, OD/OD	126
SB6-0759FL	4"3-BEND OD/FLARE ALZ	123
SB6-1253TH	ELBOW, 3" 40DEG OD/4" OD ALZ	177
SB6-1331TH	THOMAS TAIL PIPE	192
SB6-2431IH	4" ALZ, 4-BEND W/LISTS, ID/ID	137
SB6-2446FL	4"3-BEND OD/FLARE ALZ	123
SB6-2748FL	4"3-BEND OD/3.5" FLARE ALZ	124
SB6-3197BB	BLUEBIRD PIPE	64
SB6-3464IH-2	4" 3 BEND OD/OD ALZ PIPE	139
SB6-4005IH	4"4-BEND ID/ID ALZ	134
SB6-4025TH-2	4"3-BEND OD/FLARE EXT ALZ	183
SB6-4460FL	4"3-BEND OD/FLARE ALZ	123
SB6-4505FL	4"5-BEND OD/OD ALZ	121
SB6-4505FL-2	4"5-BEND OD/OD ALZ	120
SB6-4744BB	4"2-BEND ID/OD ALZ	92
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SB6-4807FL	4"5-BEND OD/OD ALZ	122
SB6-4809TH	4"4-BEND ID/MITER ALZ	191
SB6-4810IH	4"4-BEND ID/ID ALZ	137
SB6-4815IH	4"4-BEND ID/ID ALZ	137
SB6-4922IH	3.5"3-BEND OD/FLARE FLAT ALZ	131
SB6-5230FT-2B	FREIGHTLINER PIPE	115
SB6-5230FT-4B	FORD E450 6.0L MUFFLER/TAILOPIPE ASSY	115
SB6-5470GM	GM OVERAXLE PIPE	99
SB6-6918GM	GM PIPE	100
SB6-7741BB-SE	4" ALZ, 3-BEND W/MITER, ID/OD	56
SB6-7844BB	4"3-BEND OD/MITER ALZ	54
SB6-8221IH	2.5"5-BEND 2.75" OD/3.5" ID ALZ	161
SB6-8420BB	H.D. TAIL PIPE; BLUEBIRD	86
SB6-8420BB-2	4"2-BEND OD/OD EXT ALZ	78
SB6-8421BB	4"2-BEND ID/ID ALZ	86
SB6-8449FL	4"3-BEND OD/FLARE ALZ	123
SB6-8450FL	3.5"3-BEND 4" OD/4" FLARE ALZ	120
SB6-8451IH	3.5"6 BEND OD/FLARE FLAT ALZ	139
SB6-9447IH	H.D. EXHAUST PIPE; INTERNATIONAL	137
SB7-1227TH	4"5-BEND OD/OD ALZ	192
SB7-2842FL	4" ALZ 6 BEND OD/OD	121
SB7-2843FL	4"4-BEND OD/OD ALZ	127
SB7-3465IH-2	4" 3 BEND OD/OD ALZ PIPE	139
SB7-3528BB	4"4-BEND ID/OD ALZ	61
SB7-3528BB-2	4"4-BEND ID/OD ALZ	66
SB7-3880IH	4"5-BEND ID/ID ALZ	146
SB7-4607IH	4"5-BEND ID/ID ALZ	131
SB7-4627FT	4"7-BEND ID/ID ALZ	118
SB7-4632IH	4"5-BEND ID/OD ALZ	130
SB7-4633BB	4"3-BEND OD/OD ALZ	56
SB7-4646IH	4"5-BEND ID/ID ALZ	131
SB7-4654FT	4"6-BEND ID/ID ALZ	117
SB7-4661IH	4"4-BEND OD/OD ALZ	142
SB7-4663IH	H.D. TAIL PIPE; INTERNATIONAL	144
SB7-4669BB	5"3-BEND ID/MITER ALZ	56
SB7-4670IH	4"6-BEND ID/ID ALZ	139
SB7-4671IH	4"5-BEND ID/ID ALZ	140
SB7-5665BB	BB TC 2000 LEFT SIDE EXIT TAILPIPE 174" WB	54
SB7-6747GM	GM PIPE	98
SB7-8228IH-2	3.5"3-BEND OD/FLARE FLAT ALZ	132
SB7-8229IH-2	3.5"3-BEND OD/FLARE FLAT ALZ	157
SB7-8230IH-2	3.5"3-BEND OD/FLARE FLAT ALZ	130
SB7-8246TH	4"3-BEND OD/FLARE ALZ	183
SB7-8250BB	H.D. EXHAUST PIPE; BLUEBIRD	74
SB7-8300TH	5 BEND PIPE; ID-OD	192
SB7-9618IH	4"3-BEND ID/OD ALZ	54
SB8-3001IH	4"2-BEND OD/OD ALZ	130
SB8-3005IH	ELBOW, 4" 40DEG OD/OD ALZ	162
SB8-3005IH-2	ELBOW, 4" 40DEG OD/OD EXT ALZ	140
SB8-3014IH	4"3-BEND ID/OD ALZ	145
SB8-3014IH-2	4"3-BEND ID/OD ALZ	144
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SB8-3035FL-2	4" 60DEG BEND ID/OD ALZ	125
SB8-3036FL	4" 4-BEND OD/OD ALZ	125
SB8-3037BB	4" 2-BEND OD/OD ALZ	78
SB8-3043IH	4" 3-BEND OD/OD ALZ	141
SB8-3043IH-2	4" 3-BEND OD/OD EXT ALZ	139
SB8-3044FL-2	4" 66DEG BEND ID/OD ALZ	125
SB8-3045BB	4" 2-BEND OD/OD ALZ	80
SB8-3047FL	4" 5-BEND OD/OD ALZ	125
SB8-3048FL	4" 6-BEND OD/OD ALZ KIT	126
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395 Fountain Avenue • Painesville, OH 44077 • Phone: 440-639-2000 • Toll-Free Phone: 800-321-3674 • Fax: 440-639-2010
www.grandrock.com • www.grpipes.com • E-mail: sales@grandrock.com