



SALES CATALOG



CONTACT INFO

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AIR INTAKE CLAMPS

HEAVY DUTY AIR INTAKE CLAMPS FOR RUBBER CONNECTORS

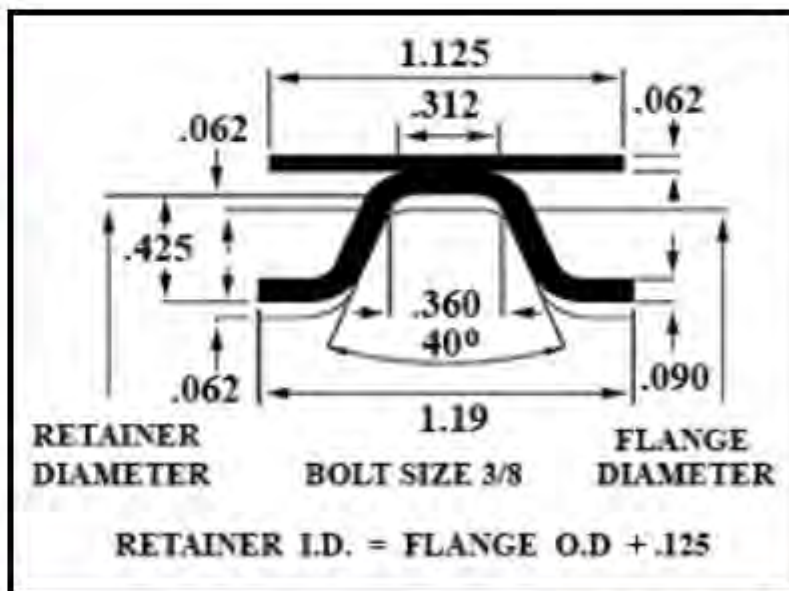
SUPER HOSE CLAMP FOR HIGH PRESSURE APPLICATION

PART#	DESCRIPTION
	AIR CLAMPS
131 138	FITS 5" 5.11" TO 5.51"
131 139	FITS 5" 5.11" TO 5.51"
149 161	FITS 5.5" 5.86" TO 6.34"
188 161	FITS 5.5" 5.86" TO 6.34"
162 174	FITS 6" 6.37" TO 6.85"
214 174	FITS 6" 6.37" TO 6.85"
188 200	FITS 7" 7.40" TO 7.87"
214 226	FITS 8" 8.38" TO 8.90"
227 239	FITS 9" 8.90" TO 9.40"
252 275	FITS 10" 9.02" TO 10.82"
252 258	FITS 12" 11.75" TO 13.12"

STAINLESS STEEL V-BAND EXHAUST CLAMPS

**V-BAND EXHAUST CLAMPS ARE AN IDEAL
TUBING CONNECTION WHEN FREQUENT DISASSEMBLY IS
REQUIRED; LIGHT AND EASY TO TAKE APART.**

PART#	V-BAND CLAMP SIZE
VB6	6"
VB7	7"
VB8	8"
VB10	10"
VB12	12"



RUBBER HUMP HOSE & ELBOWS

90° RUBBER ELBOWS5-1

90° REDUCING ELBOWS5-2

45° RUBBER ELBOWS5-3

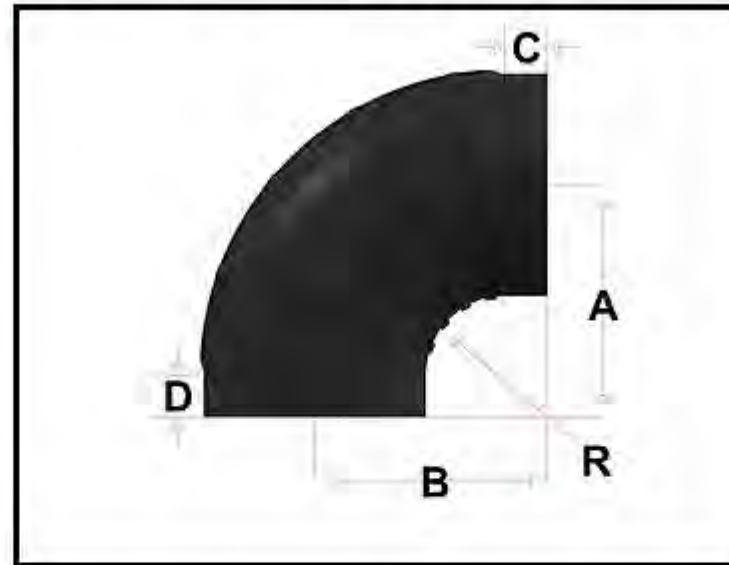
45° REDUCING ELBOWS5-4

STANDARD HUMP HOSE5-5

REDUCING HUMP HOSE5-6

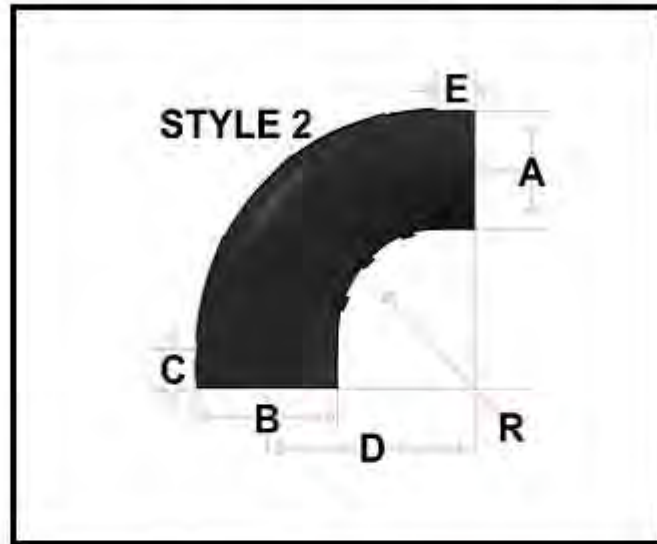


90° RUBBER ELBOWS



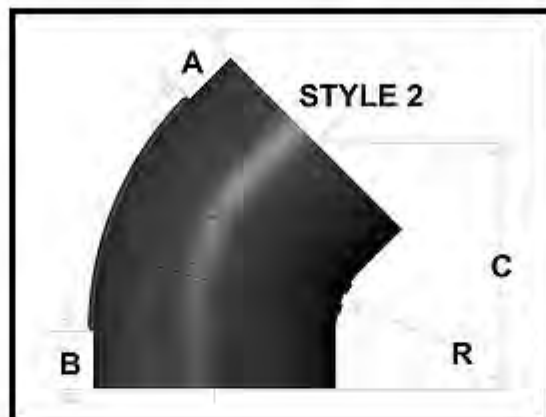
PART#	ID	OD	A	B	C	D	R
RL590	5"	5.5"	6.125"	6.125"	1.75"	1.625"	1.75"
RL690	6"	6.5"	7"	7"	3.5"	4.5"	1.75"
HL906EC	6"	6.5"	9"	10"	2.25"	2"	1.75"
RL890	8"	8.75"	8.5"	8.5"	2"	2.25"	2.125"
RL1090	10"	10.75"	10.5"	10.5"	2.25"	2.25"	3.125"

90° REDUCING ELBOW



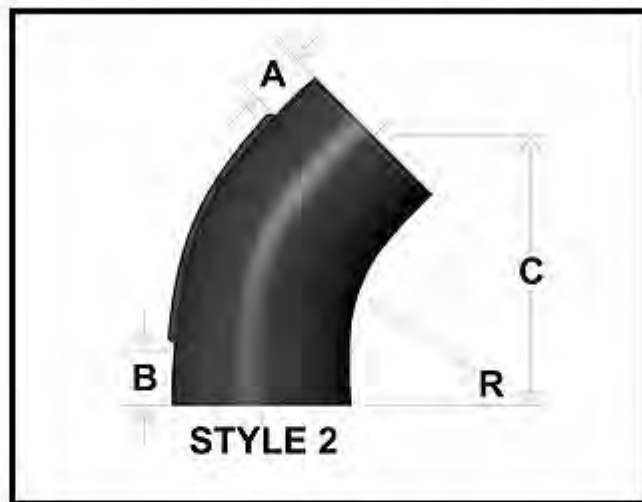
PART#	A-ID	B-ID	C	D	R
RL75590	7"	5.5"	1.5"	6.5"	.625"

45° RUBBER ELBOWS



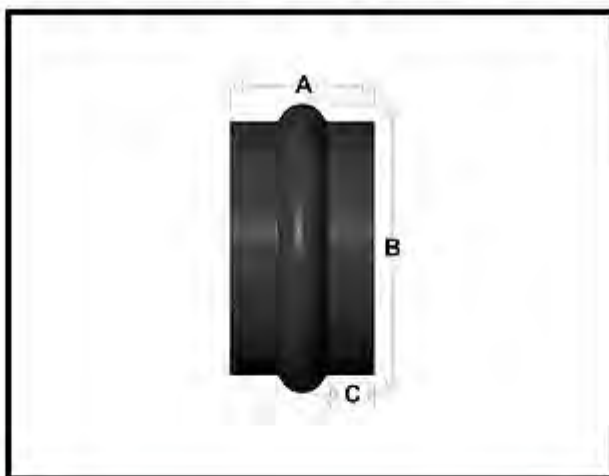
PART#	ID	OD	A	B	C	R
RL545	5"	5.5"	1.625"	1.625"	5.25"	1.75"
RL645	6"	6.5"	2"	2"	6.5"	1.75"
RL845	8"	8.75"	2.25"	2.25"	8.25"	2.125"
RL1045	10"	10.75"	2.25"	2.25"	10.25"	3.125"

45° REDUCING ELBOWS



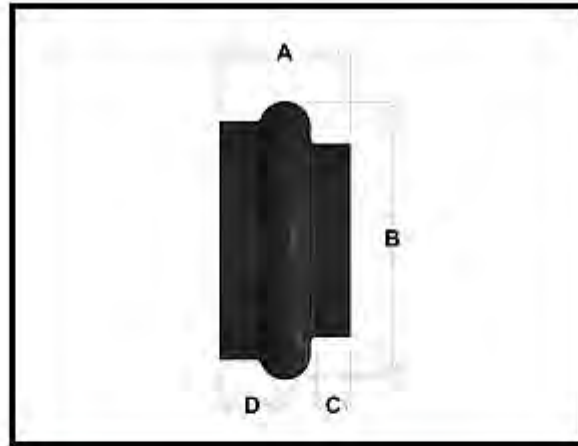
PART#	ID	ID	A	B	C	R
RL65545	6"	5.5"	1.75"	1.75"	6.5"	4.875"

STANDARD HUMPH HOSE



PART#	ID	A	B	C
HH5	5"	6"	6.125"	2.25"
HH6	6"	7"	6.5"	2.75"
HH8	8"	5"	9.5"	1.5"
HH10	10"	6"	11.5"	2"
HH12	12"	7.5"	13.75"	3"

REDUCING HUMP HOSE



PART#	ID	A	B	C	D
HHR65	6"	6"	7.5"	2.125"	3"
HHR76	7"	6"	8.5"	1.75"	3"
HHR108	10"	6"	11.5"	2"	3"
HHR1210	12"	7.5"	13.5"	2.75"	3"
HHR1412	14"	7.5"	15.25"	3"	3"

AIR INTAKE KITS

KOMATSU 830E

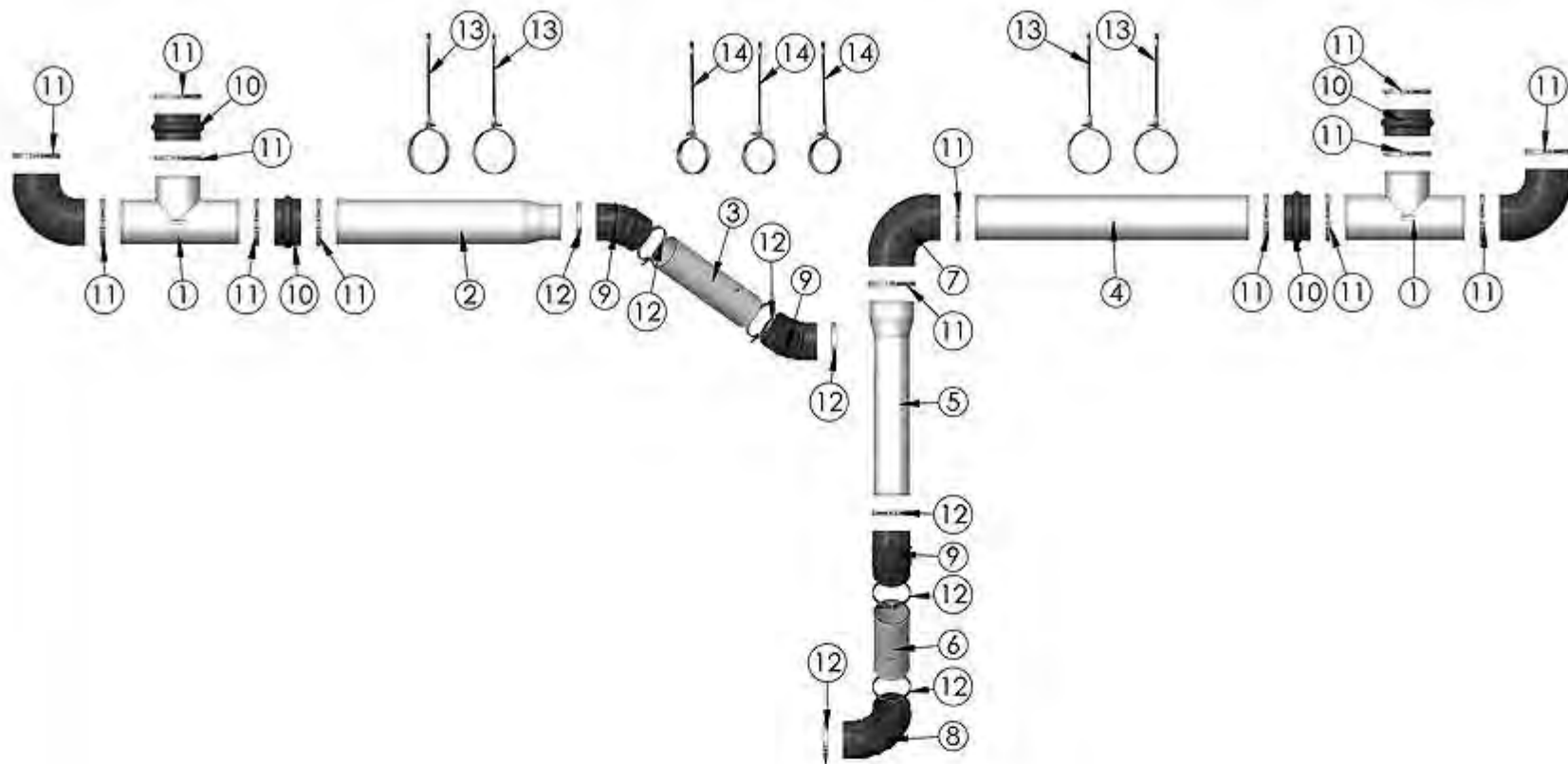
<u>KOMATSU 830E CUMMINS K2000 AIR INTAKE SYSTEM</u>	<u>6-1</u>
<u>KOMATSU 830E CUMMINS QSK 60 STAGE ONE AIR INTAKE SYSTEM</u>	<u>6-2</u>
<u>KOMATSU 830E CUMMINS QSK 60 STAGE TWO AIR INTAKE SYSTEM</u>	<u>6-3</u>
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KOMATSU 930E

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<u>KOMATSU 930E DETROIT DIESEL 16V 4000 -1-2-3 AIR INTAKE SYSTEM</u>	<u>6-9</u>

KOMATSU 830E CUMMINS K2000

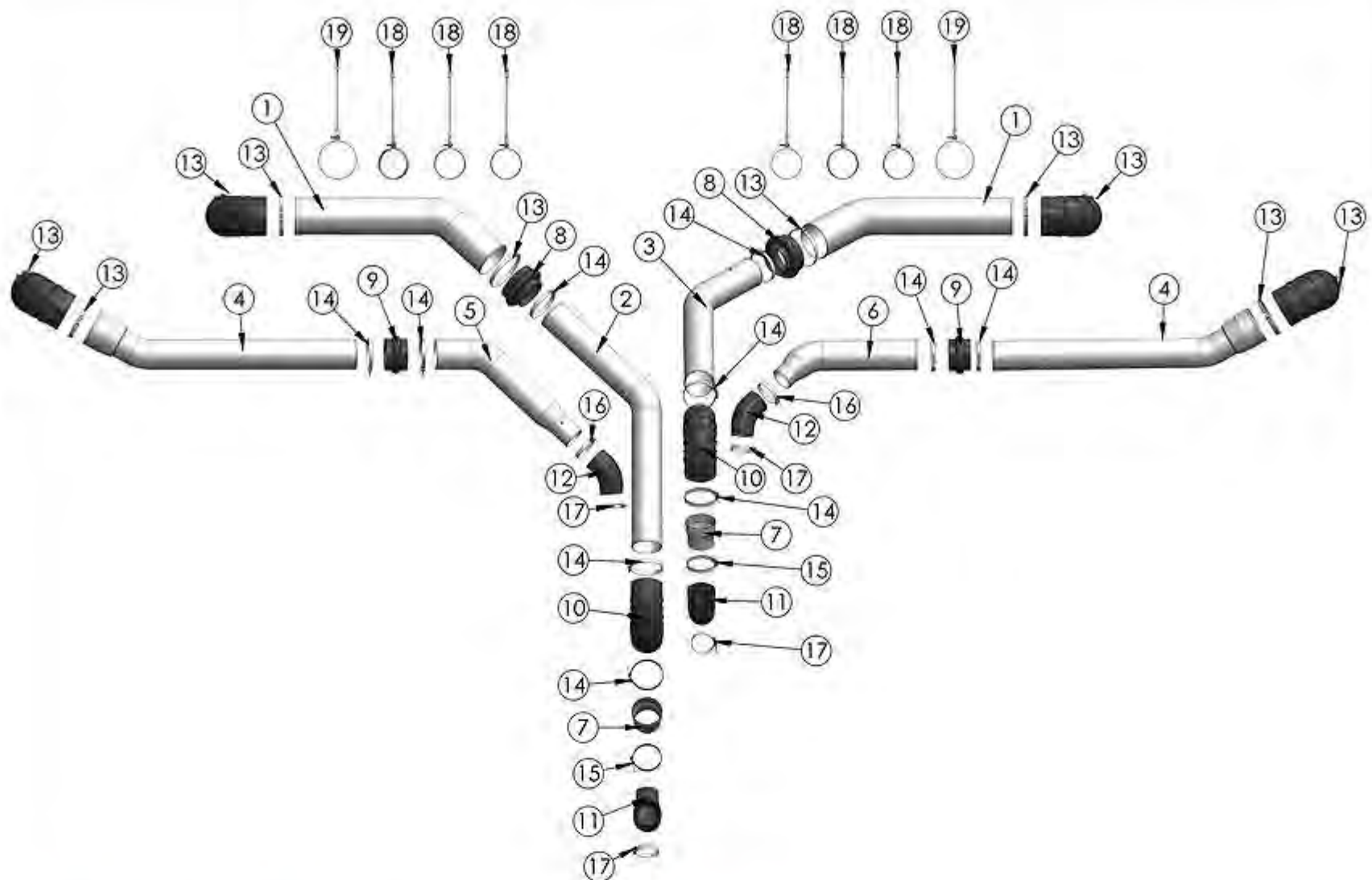
AIR INTAKE KIT



LABEL#	PART#	DESCRIPTION	QTY
1	830-1-IS	10" MANIFOLD PIPE TO AIR CANISTER	2
2	830-2-IS	10" TO 8" REDUCING MID PIPE	1
3	830-3-IS	8" PIPE TO FRONT TURBO	1
4	830-4-IS	10" PIPE FROM MANIFOLD	1
5	830-5-IS	10" to 8" REDUCING MID PIPE	1
6	830-6-IS	8" PIPE TO REAR TURBO	1
7	RL1090	10" 90° RUBBER ELBOW	1
8	RL890	8" 90° RUBBER ELBOW	1
9	RL845	8" 45° RUBBER ELBOW	3
10	HH10	10" RUBBER HUMP HOSE	4
11	252 275	10" AIR CLAMP	14
12	214 226	8" AIR CLAMP	8
13	HAK10	10" AIR PIPE HANGER KIT	4
14	HAK8	8" AIR PIPE HANGER KIT	3

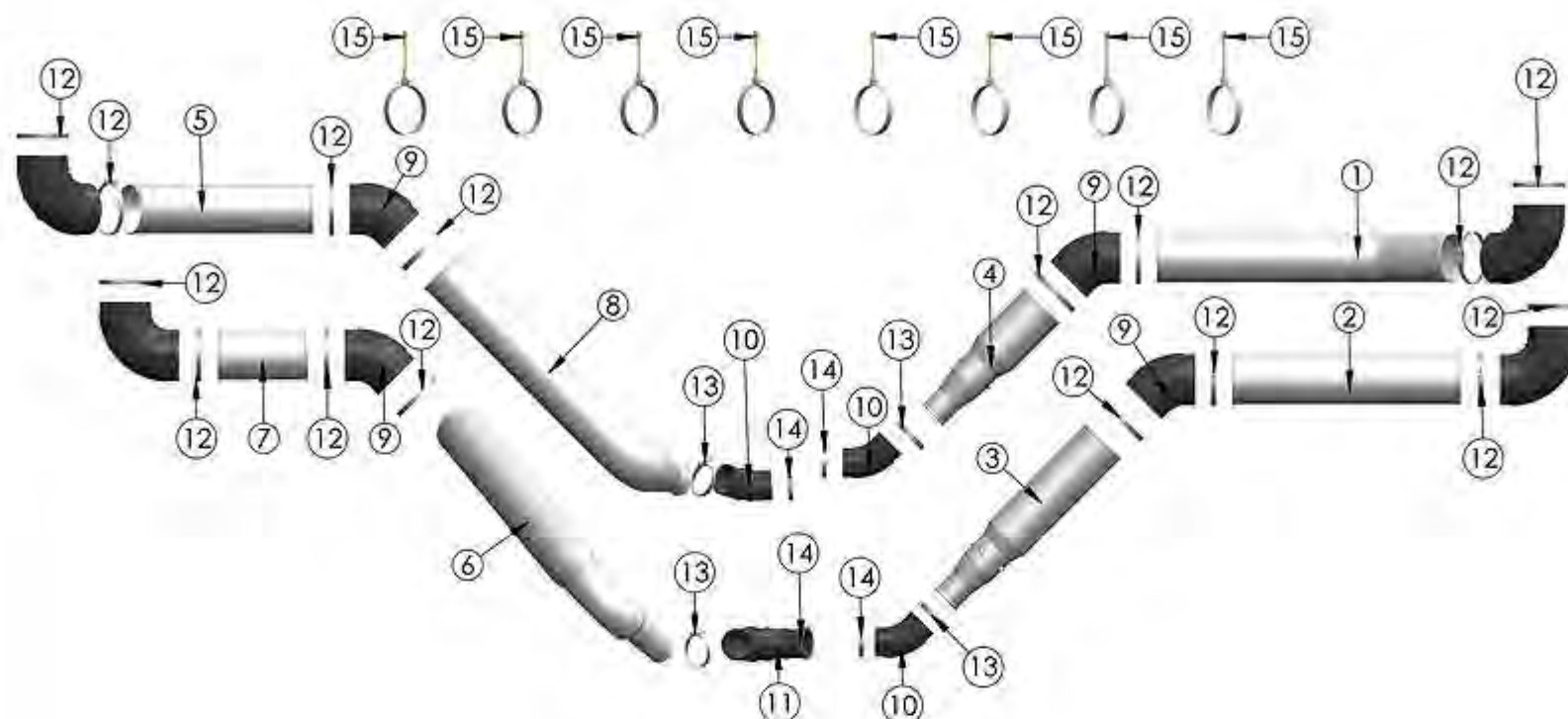
KOMATSU 830E CUMMINS QSK60 STAGE 1 8361

AIR INTAKE KIT



LABEL#	PART#	DESCRIPTION	QTY
1	8361AS-1	10" L&R AIR CANISTER PIPE	2
2	8361AS-2	8" LEFT CONNECTOR PIPE	1
3	8361AS-3	8" RIGHT CONNECTOR PIPE	1
4	8361AS-4	10" TO 8" L&R AIR CANISTER PIPE	2
5	8361AS-5	8" TO 6" LEFT TURBO CONNECTOR	1
6	8361AS-6	8" TO 6" RIGHT TURBO CONNECTOR	1
7	8361AS-7	8" TO 7" L&R STEEL REDUCER	2
8	HH108	10" TO 8" REDUCING HUMP HOSE	2
9	HH8	8" STRAIGHT HUMP HOSE	2
10	RL890	8" 90° RUBBER ELBOW	2
11	RL75590	7" TO 5.5" 90° RUBBER ELBOW	2
12	RL65545	6" TO 5.5" 45° RUBBER ELBOW	2
13	252 275	10" AIR CLAMP	10
14	214 226	8" AIR CLAMP	10
15	188 200	7" AIR CLAMP	2
16	162 174	6" AIR CLAMP	2
17	149 161	5.5" AIR CLAMP	4
18	HAK08	8" PIPE HANGER KIT	6
19	HAK10	10" PIPE HANGER KIT	2

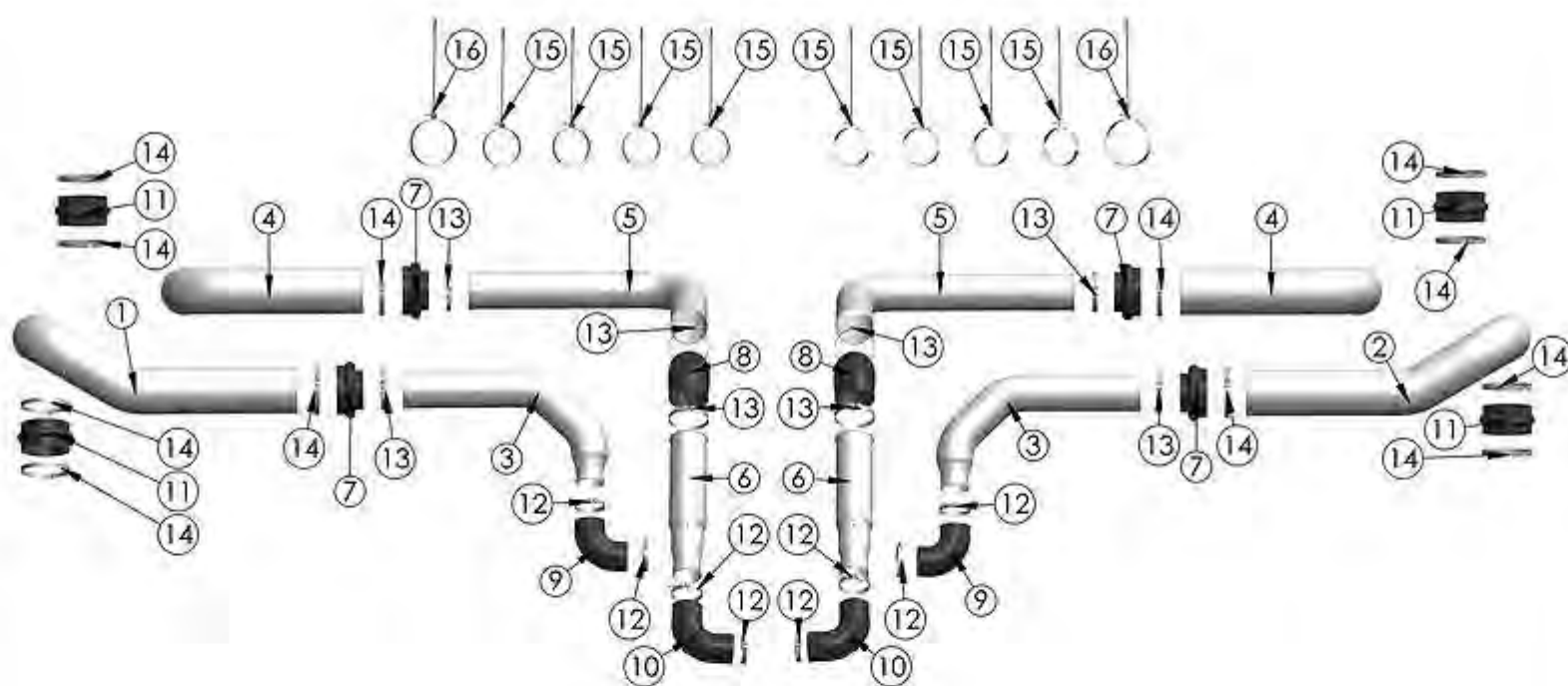
KOMATSU 830E CUMMINS QSK 60 STAGE TWO AIR INTAKE KIT



LABEL#	PART#	DESCRIPTION	QTY
1	832QSA-1	OUTER RIGHT AIR CANISTER PIPE	1
2	832QSA-2	INNER RIGHT AIR CANISTER PIPE	1
3	832QSA-3	10" TO 6" REDUCING RIGHT REAR TURBO PIPE	1
4	832QSA-4	10" TO 6" REDUCING RIGHT FRONT TURBO PIPE	1
5	832QSA-5	OUTER LEFT AIR CANISTER PIPE	1
6	832QSA-6	10" TO 6" REDUCING LEFT REAR TURBO PIPE	1
7	832QSA-7	INNER LEFT AIR CANISTER PIPE	1
8	832QSA-8	10" TO 6" REDUCING LEFT FRONT TURBO PIPE	1
9	RL1045	10" 45° RUBBER ELBOW	4
10	RL65545	6" TO 5.5" 45° REDUCING RUBBER ELBOW	3
11	RL65590	6" TO 5.5" 90° REDUCING RUBBER ELBOW	1
12	252 275	10" AIR CLAMP	16
13	162 174	6" AIR CLAMP	4
14	149 161	5.5" AIR CLAMP	4
15	HAK10	10" PIPE HANGER KIT	8

KOMATSU 830E DETROIT DIESEL 12V 4000

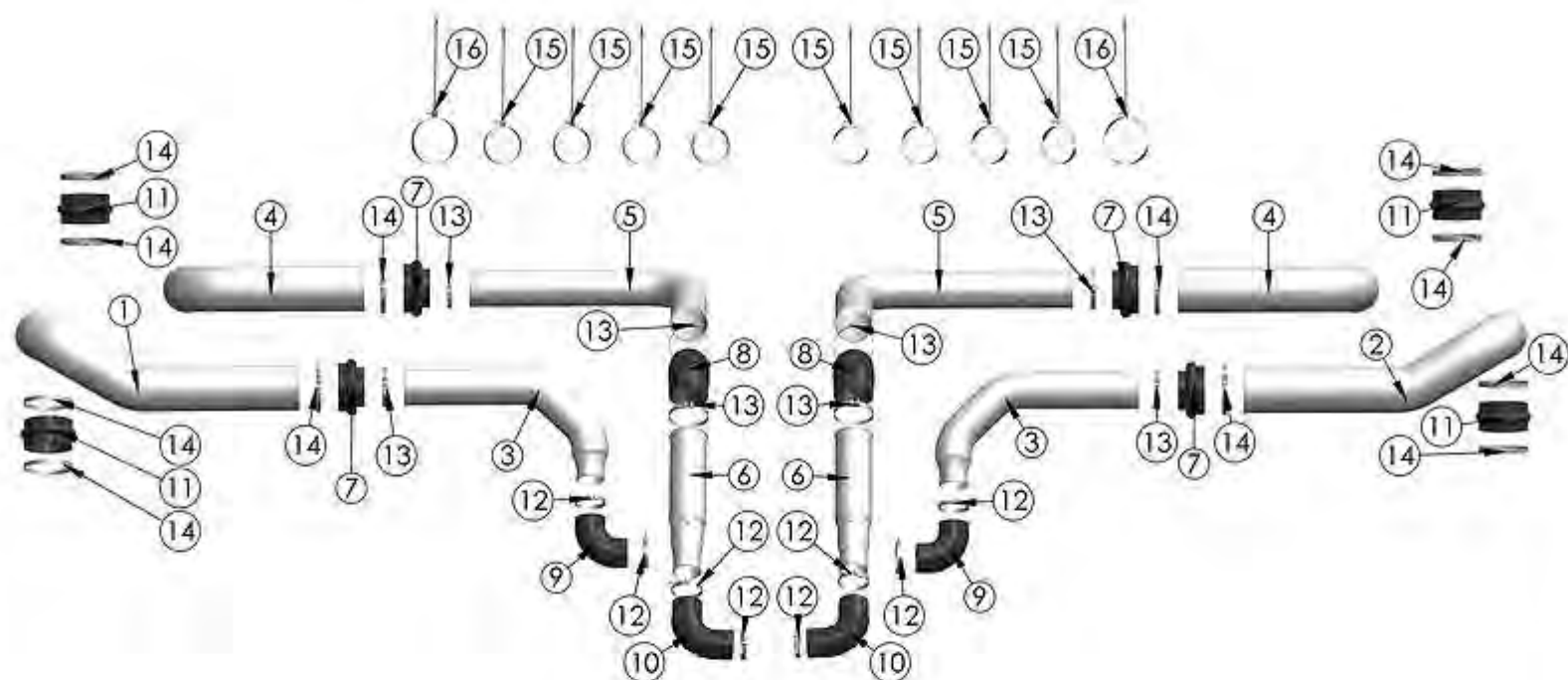
AIR INTAKE KIT



LABEL#	PART#	DESCRIPTION	QTY
1	83124-01L	LEFT 10" CANISTER CROSSOVER PIPE	1
2	83124-01R	RIGHT 10" CANISTER CROSSOVER PIPE	1
3	83124-02	6" DOUBLE 45° REDUCING PIPE-FRONT TURBO	2
4	83124-03	10" 90° CANISTER PIPE	2
5	83124-04	8" 90° MID PIPE TO REAR TURBO	2
6	83124-05	8" TO 6" REDUCING PIPE TO REAR TURBO	2
7	HHR108	10" TO 8" REDUCING HUMP HOSE	4
8	RL845	8" 45° RUBBER ELBOW	2
9	RL690	6" 90° RUBBER ELBOW	2
10	HL906EC	6" 90° RUBBER ELBOW W/ LONG LEG	2
11	HH10	10" RUBBER HUMP HOSE	4
12	252 275	10" AIR CLAMP	12
13	214 226	8" AIR CLAMP	8
14	162 174	6" AIR CLAMP	8
15	HAK8	8" PIPE HANGER KIT	8
16	HAK10	10" PIPE HANGER KIT	2

KOMATSU 830E DETROIT DIESEL 16V 4000

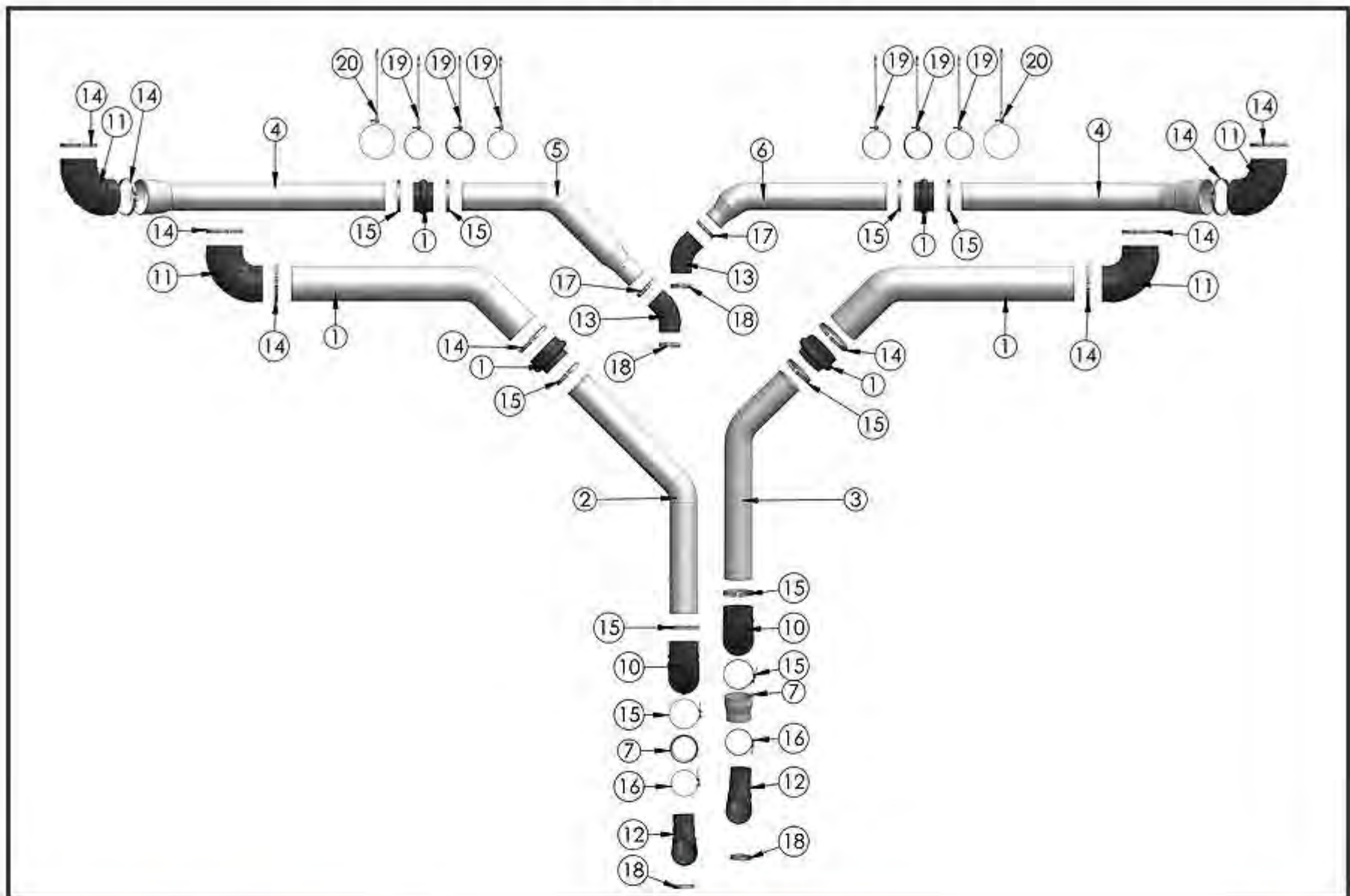
AIR INTAKE KIT



LABEL#	PART#	DESCRIPTION	QTY
1	83164-01L	LEFT 10" CANISTER CROSSOVER PIPE	1
2	83164-01R	RIGHT 10" CANISTER CROSSOVER PIPE	1
3	83164-02	6" DOUBLE 45° REDUCING PIPE-FRONT TURBO	2
4	83164-03	10" 90° CANISTER PIPE	2
5	83164-04	8" 90° MID PIPE TO REAR	2
6	83164-05	8" TO 6" REDUCING PIPE TO REAR TURBO	2
7	HHR108	10" TO 8" REDUCING HUMP HOSE	4
8	RL845	8" 45° RUBBER ELBOW	2
9	RL690	6" 90° RUBBER ELBOW	2
10	HL906EC	6" 90° RUBBER ELBOW W/ LONG LEG	2
11	HH10	10" RUBBER HUMP HOSE	4
12	252 275	10" AIR CLAMP	12
13	214 226	8" AIR CLAMP	8
14	162 174	6" AIR CLAMP	8
15	HAK8	8" PIPE HANGER KIT	8
16	HAK10	10" PIPE HANGER KIT	2

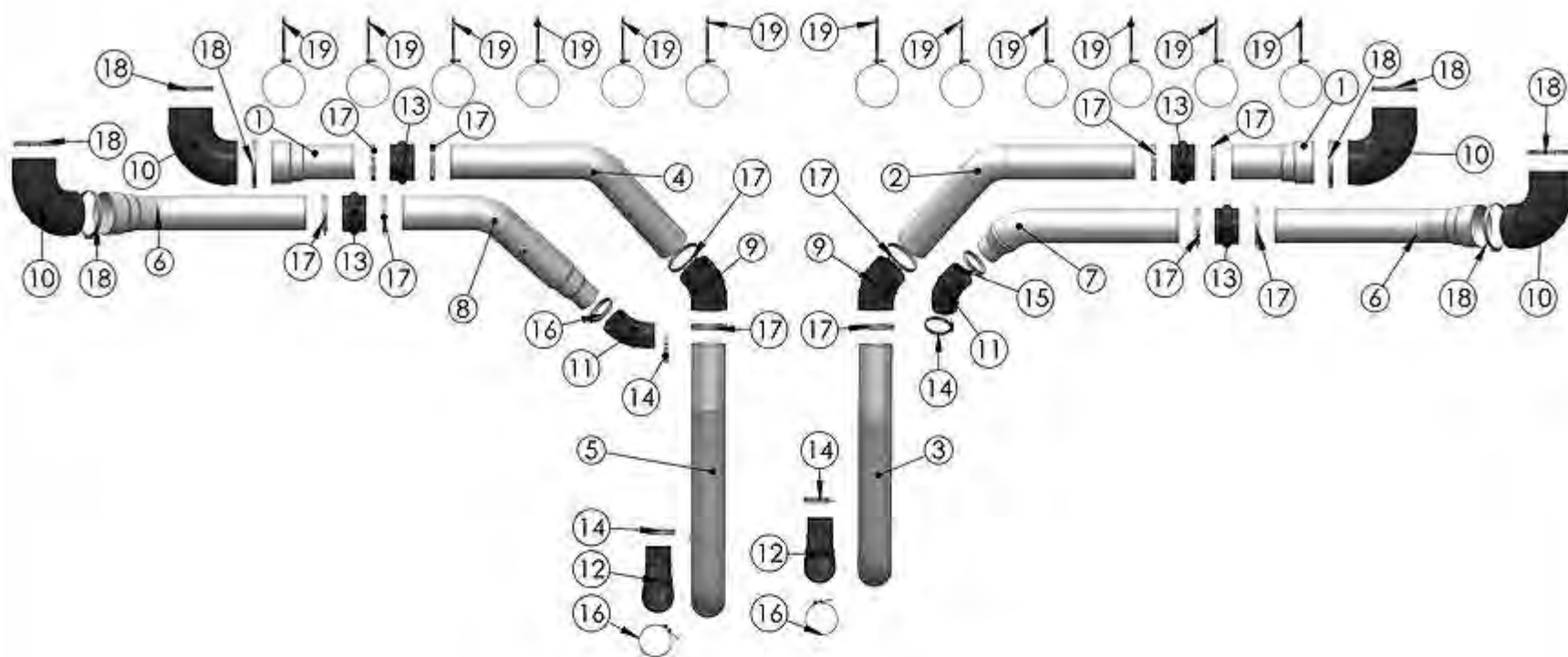
KOMATSU 930E CUMMINS QSK 60 STAGE ONE-1-2-3

AIR INTAKE KIT



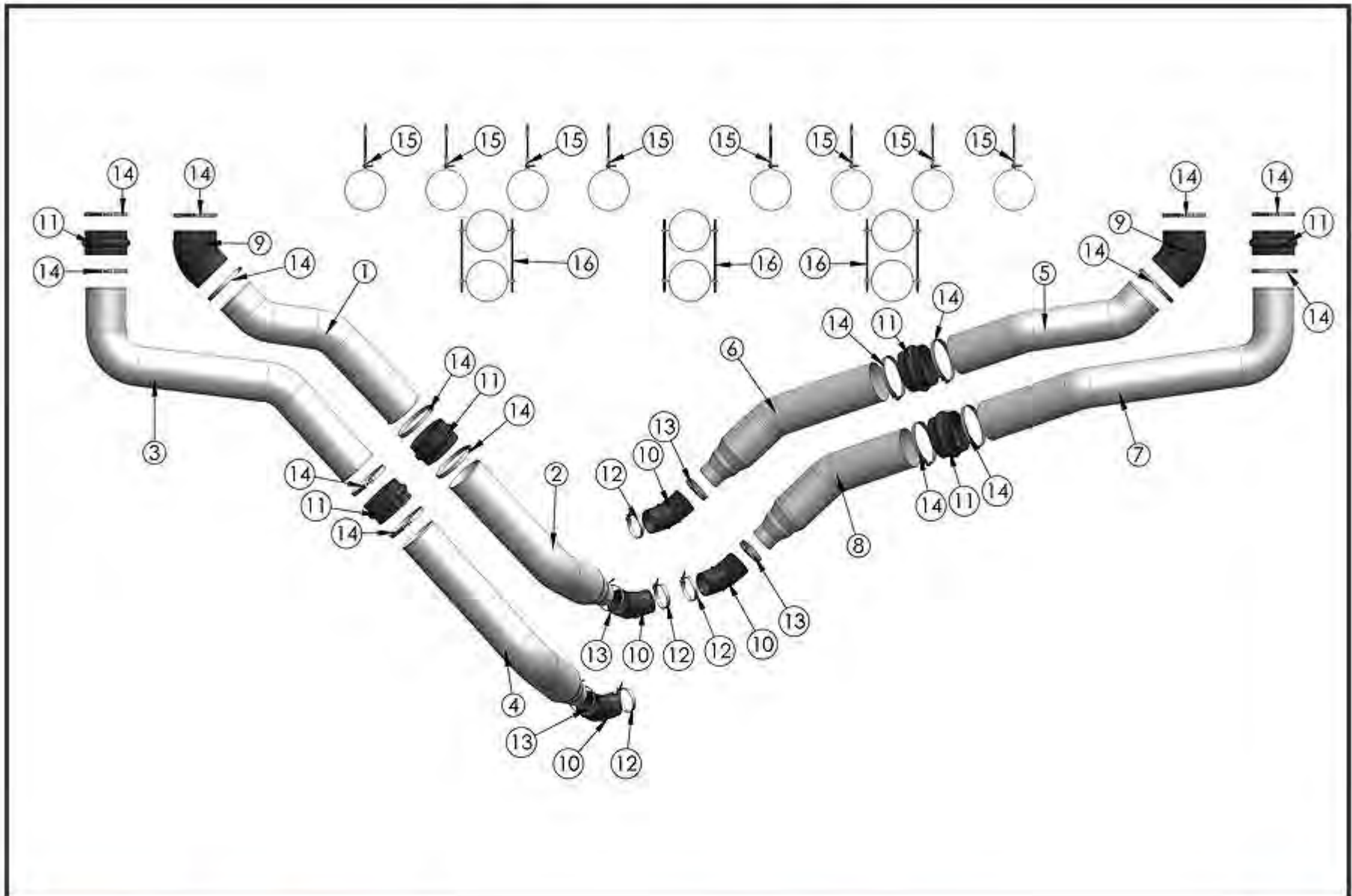
LABEL#	PART#	DESCRIPTION	QTY
1	9361A-3-01	10" AIR CANISTER PIPE RIGHT SIDE	2
2	9361A-3-02	8" MID PIPE LEFT SIDE BACK TURBO	1
3	9361A-3-03	8" MID PIPE RIGHT SIDE BACK TURBO	1
4	9361A-3-04	10" TO 8" AIR CANISTER PIPE LEFT RIGHT SIDES	2
5	9361A-3-05	8" TO 6" REDUCING PIPE TO LEFT FRONT SIDE	1
6	9361A-3-06	8" TO 6" REDUCING TO RIGHT FRONT TURBO	1
7	9361A-3-07	8" TO 7" STEEL REDUCING TO L&R BACK TURBO	2
8	HHR108	10" TO 8" STRAIGHT REDUCING RUBBER HOSE	2
9	HH8	8" TO 8" STRAIGHT RUBBER H HOSE	2
10	RL890	8" 90° RUBBER ELBOW	2
11	RL1090	10" 90° RUBBER ELBOW	4
12	RL75590	7" TO 5.5" 90° REDUCING RUBBER ELBOW	2
13	RL65545	6" TO 5.5" 45° REDUCING RUBBER ELBOW	2
14	252 275	10" AIR INTAKE CLAMP	10
15	214 226	8" AIR INTAKE CLAMP	10
16	188 200	7" AIR INTAKE CLAMP	2
17	162 174	6" AIR INTAKE CLAMP	2
18	149 161	5.5" AIR INTAKE CLAMP	4
19	HAK8	8" AIR PIPE HANGER KIT	6
20	HAK10	10" AIR PIPE HANGER KIT	2

KOMATSU 930E CUMMINS QSK 60 STAGE ONE-2 AIR INTAKE KIT



LABEL#	PART#	DESCRIPTION	QTY
1	QSK1932-01F	10" TO 8" AIR CANISTER PIPE	2
2	QSK1932-02F	8" 45° LEFT MID PIPE	1
3	QSK1932-03F	LEFT SIDE REAR TURBO PIPE	1
4	QSK1932-04F	8" 45° RIGHT SIDE MID PIPE	1
5	QSK1932-05F	RIGHT SIDE REAR TURBO PIPE	1
6	QSK1932-06F	10" TO 8" LONG AIR CANISTER PIPE	2
7	QSK1932-07F	LEFT SIDE FRONT TURBO PIPE	1
8	QSK1932-08F	RIGHT SIDE FRONT TURBO PIPE	1
9	RL845	8" 45° RUBBER ELBOW	2
10	RL1090	10" 90° RUBBER ELBOW	4
11	RL65545	6" TO 5.5" 45° REDUCING RUBBER ELBOW	2
12	RL75590	7" TO 5.5" 90° REDUCING RUBBER ELBOW	2
13	HH8	8" TO 8" STRAIGHT RUBBER HUMP HOSE	4
14	149 161	5.5" AIR INTAKE CLAMP	4
15	162 174	6" AIR INTAKE CLAMP	2
16	214 226	7" AIR INTAKE CLAMP	2
17	188 200	8" AIR INTAKE CLAMP	12
18	252 275	10" AIR INTAKE CLAMP	8
19	HAK8	8" AIR PIPE HANGER KIT	12

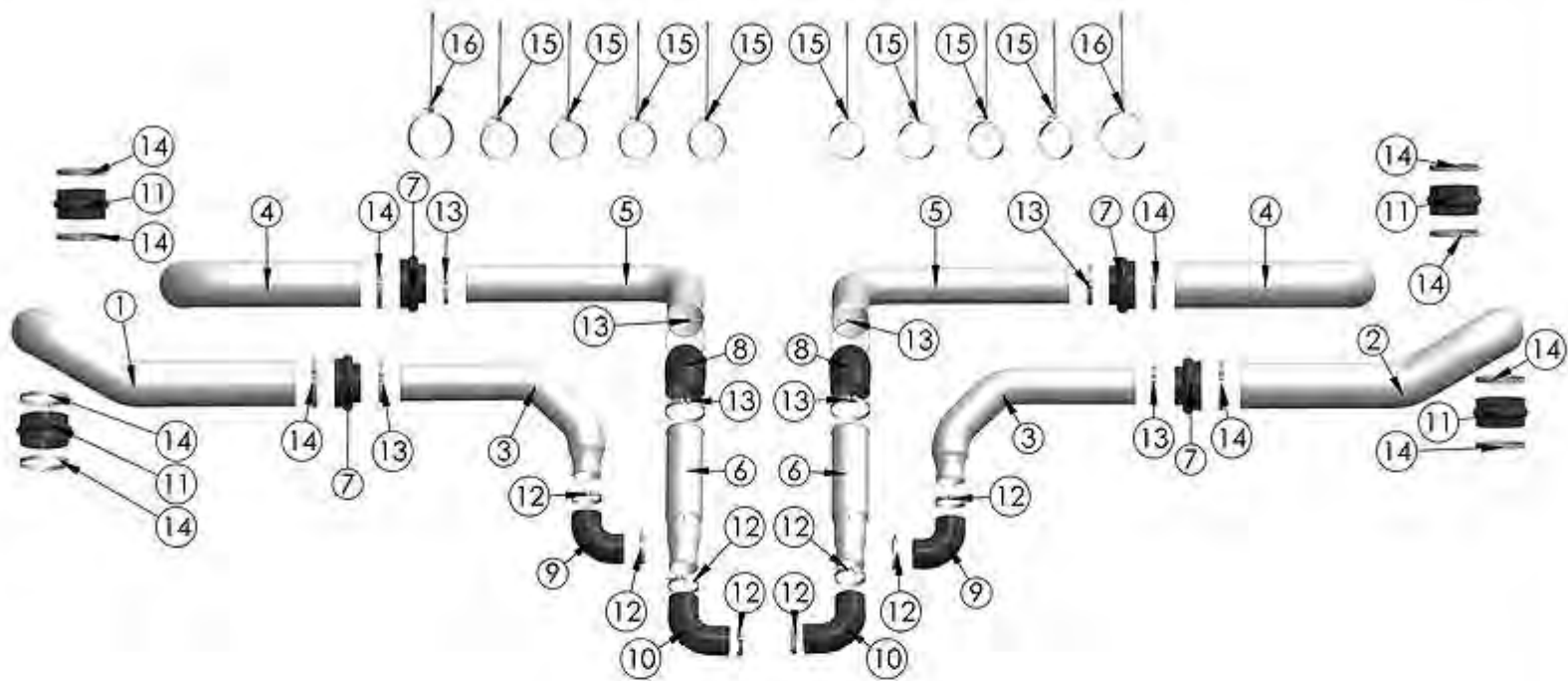
KOMATSU 930E CUMMINS QSK 60 STAGE TWO -4 AIR INTAKE KIT



LABEL#	PART#	DESCRIPTION	QTY
1	933QSK2-A1	10" TO 10" L INNER CANISTER PIPE	1
2	933QSK2-A2	10" TO 6" LF REDUCING TURBO PIPE	1
3	933QSK2-A3	10" TO 10" L OUTER CANISTER PIPE	1
4	933QSK2-A4	10" TO 6" LB REDUCING TURBO PIPE	1
5	933QSK2-A5	10" TO 10" R INNER CANISTER PIPE	1
6	933QSK2-A6	10" TO 6" RF REDUCING TURBO PIPE	1
7	933QSK2-A7	10" TO 10" R OUTER CANISTER PIPE	1
8	933QSK2-A8	10" TO 6" RB REDUCING TURBO PIPE	1
9	RL1045	10" 45° RUBBER ELBOW	2
10	RL65545	6" TO 5.5" 45° REDUCING RUBBER ELBOW	4
11	HH10	10" TO 10" STRAIGHT RUBBER HUMP HOSE	6
12	149 161	5.5" AIR INTAKE CLAMP	4
13	162 174	6" AIR INTAKE CLAMP	4
14	252 275	10" AIR INTAKE CLAMP	16
15	HAK10	10" AIR PIPE HANGER KIT	8
16	SPBK10	SPACER BRACKET FOR AIR CANISTER PIPES	3

KOMATSU DETROIT DIESEL 16V 4000 -1-2-3

AIR INTAKE KIT



LABEL#	PART#	DESCRIPTION	QTY
1	93164-01L	DS 10" AIR CC PIPE	1
2	93164-01R	PS 10" AIR CC PIPE	1
3	93164-02	8" TO 6" X2 45° REDUCING PIPE FRONT TURBO	2
4	93164-03	10" 90° AIR CANISTER PIPE	2
5	93164-04	8" 90° MID PIPE TO REAR TURBO	2
6	93164-05	8" TO 6" REDUCING PIPE TO REAR TURBO	2
7	HHR108	10" TO 8" STRAIGHT REDUCING RUBBER HOSE	4
8	RL845	8" 45° RUBBER ELBOW	2
9	RL690	6" 90° RUBBER ELBOW	2
10	HL906EC	6" 90° LONG LEG RUBBER ELBOW	2
11	HH10	10" TO 10" STRAIGHT RUBBER HUMP HOSE	4
12	162 174	6" AIR INTAKE CLAMP	8
13	214 226	8" AIR INTAKE CLAMP	8
14	252 275	10" AIR INTAKE CLAMP	12
15	HAK8	8" AIR PIPE HANGER KIT	8
16	HAK10	10" AIR PIPE HANGER KIT	2

EXHAUST KITS

KOMATSU 630/170D

KOMATSU 630/170D DETROIT DIESEL 12V 4000 EXHAUST SYSTEM7-1
ENGINE TO HORSE COLLAR

KOMATSU 830E

KOMATSU 830E INFRAME EXHAUST SYSTEM7-2

KOMATSU 830E FENDER MOUNT EXHAUST SYSTEM7-3

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KOMATSU 930E

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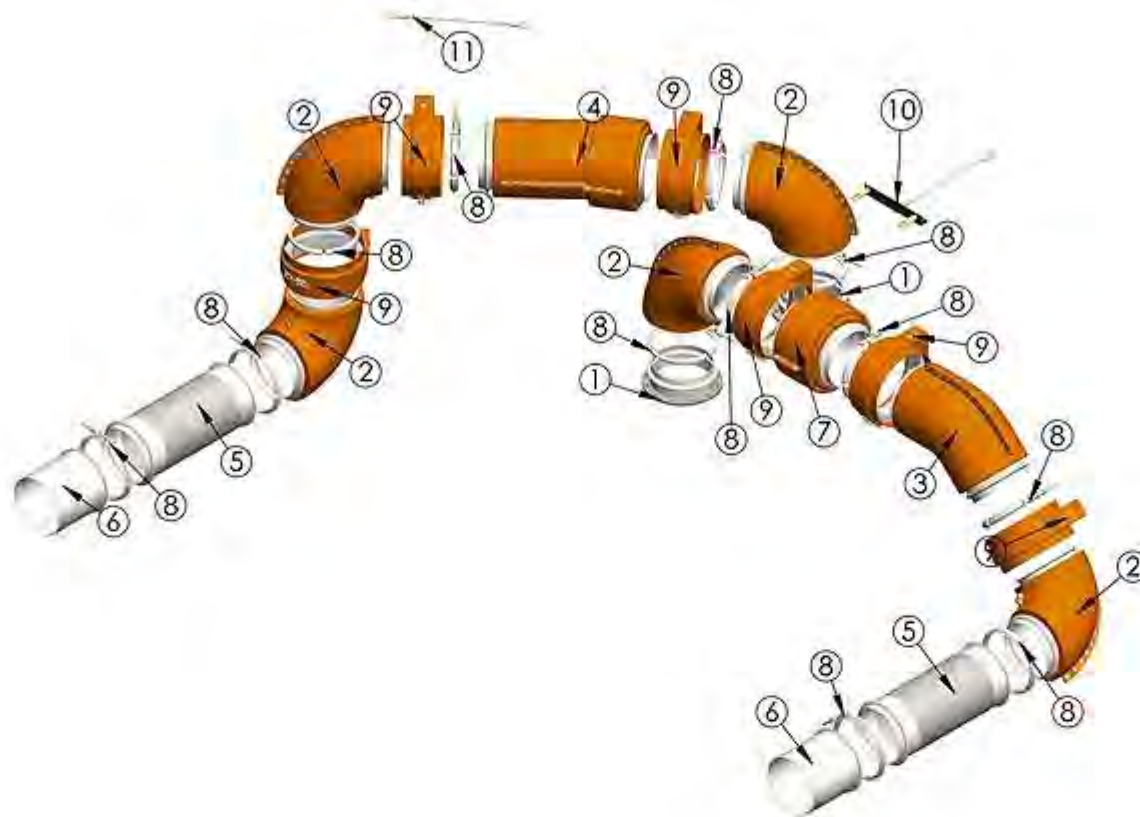
KOMATSU 930E DETROIT DIESEL 16V 4000 EXHAUST SYSTEM.....7-18

CAT 797F EXHAUST SYSTEM7-19

UNIVERSAL EXHAUST SYSTEM

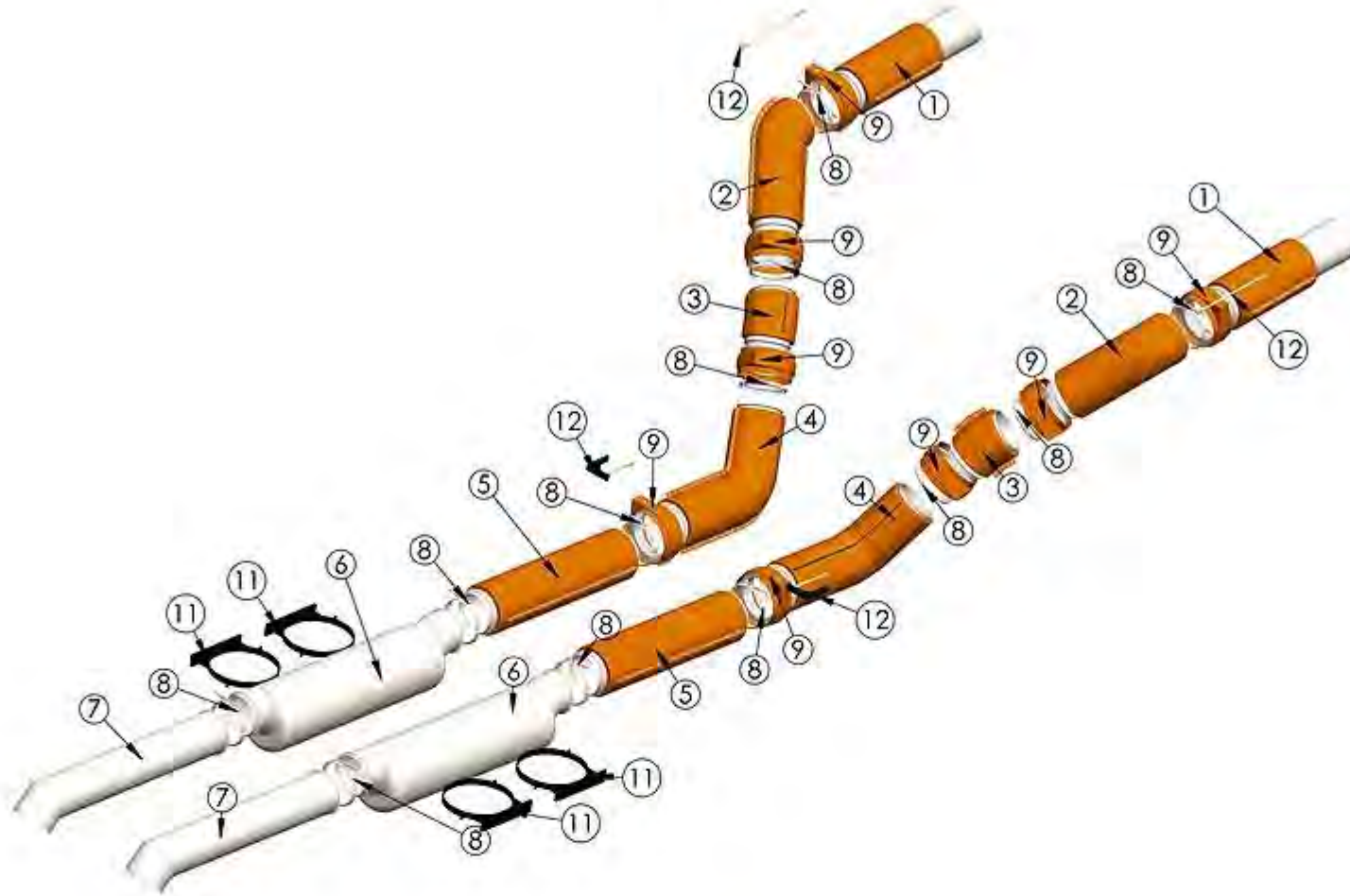
UNIVERSIAL MINING EXHAUST KITS7-20

KOMATSU 630/170D DETROIT DIESEL 12V 4000 ENGINE TO HORSE COLLAR INSULATED EXHAUST KIT



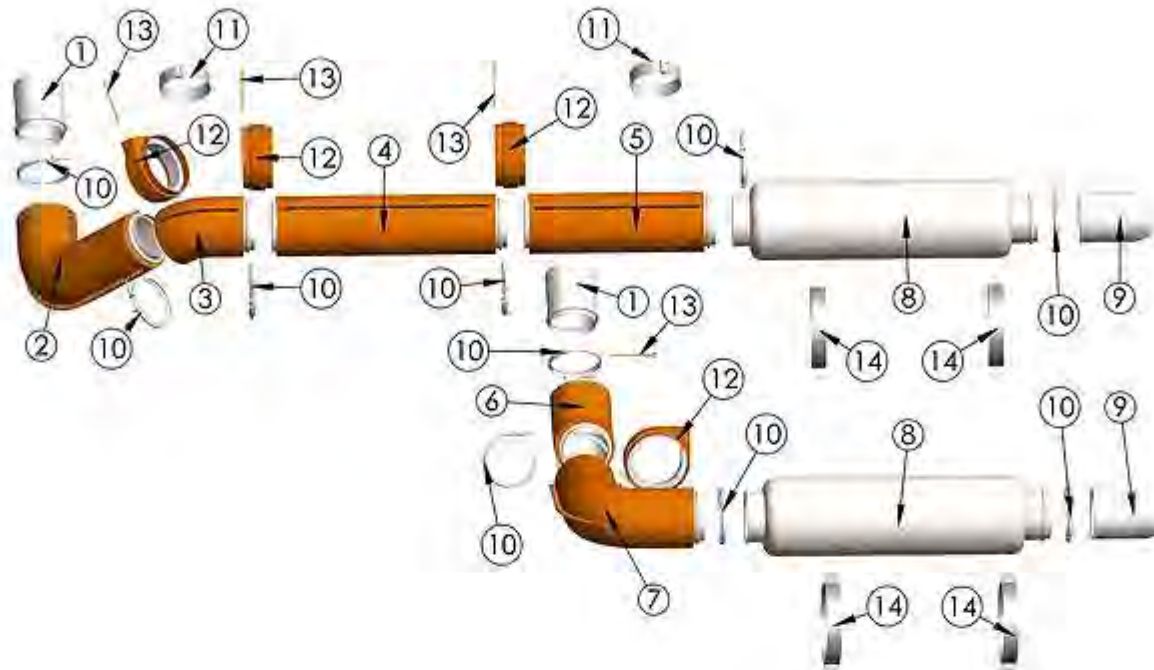
LABEL#	PART#	DESCRIPTION	QTY
1	1763-E	FLANGED TURBO PIPE	2
2	1763-A	10" STANDARD 90° ELBOW	5
3	1763-D	10" 45° ELBOW	1
4	1763-B	10" 10° PIPE WITH BELLOWS	1
5	1763-F	10" FLEX PIPE TO HORSE COLLAR	1
6	AD10	FLEX PIPE ADAPTER	2
7	BC10	10" BELLOWS PIPE	2
8	VB10	10" V-BAND CLAMP	12
9	VS10	10" INSULATED V-BAND CLAMP COVER	6
10	BCH10	10" BELLOWS HANGER KIT	1
11	EXH10	10" EXHAUST HANGER KIT	2

KOMATSU 830E INFRAME INSULATED EXHAUST SYSTEM FROM BEHIND HORSE COLLAR



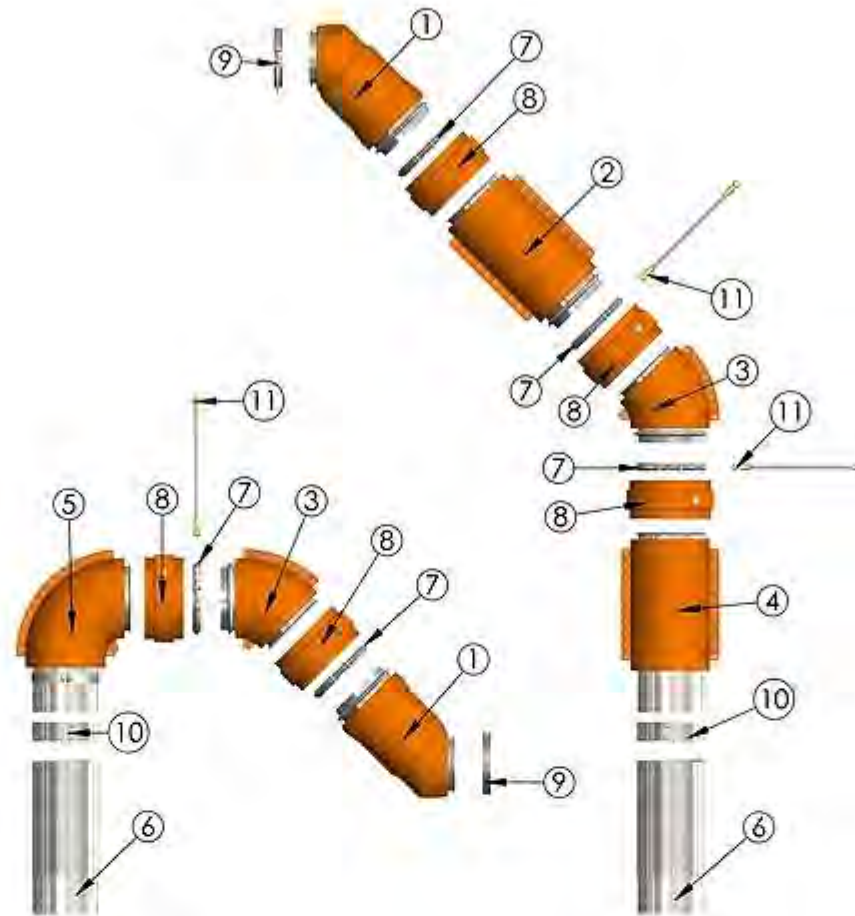
LABEL#	PART#	DESCRIPTION	QTY
1	83IFE-1	10" STRAIGHT PIPE 38.5" LONG	2
2	83IFE-2	10" 60° ELBOW W/ LEG	2
3	83IFE-3	10" 12° ELBOW	2
4	83IFE-4	10" 60° ELBOW	2
5	83IFE-5	10" STRAIGHT PIPE 46.5" LONG	2
6	83IFE-6	16" DIAMETER MUFFLER	2
7	83IFE-7	10" MUFFLER DOWN SPOUT	2
8	VB10	10" V-BAND CLAMP	12
9	VS10	10" INSULATED V-BAND CLAMP COVER	8
10	FBC10	10" SS FLAT BAND CLAMP	2
11	MB16	16" MUFFLER MOUNTING BRACKET	4
12	EAS12	EXHAUST ANGLE BRACKET HANGER	2

KOMATSU 830E FENDER MOUNT INSULATED EXHAUST SYSTEM FROM BEHIND HORSE COLLAR



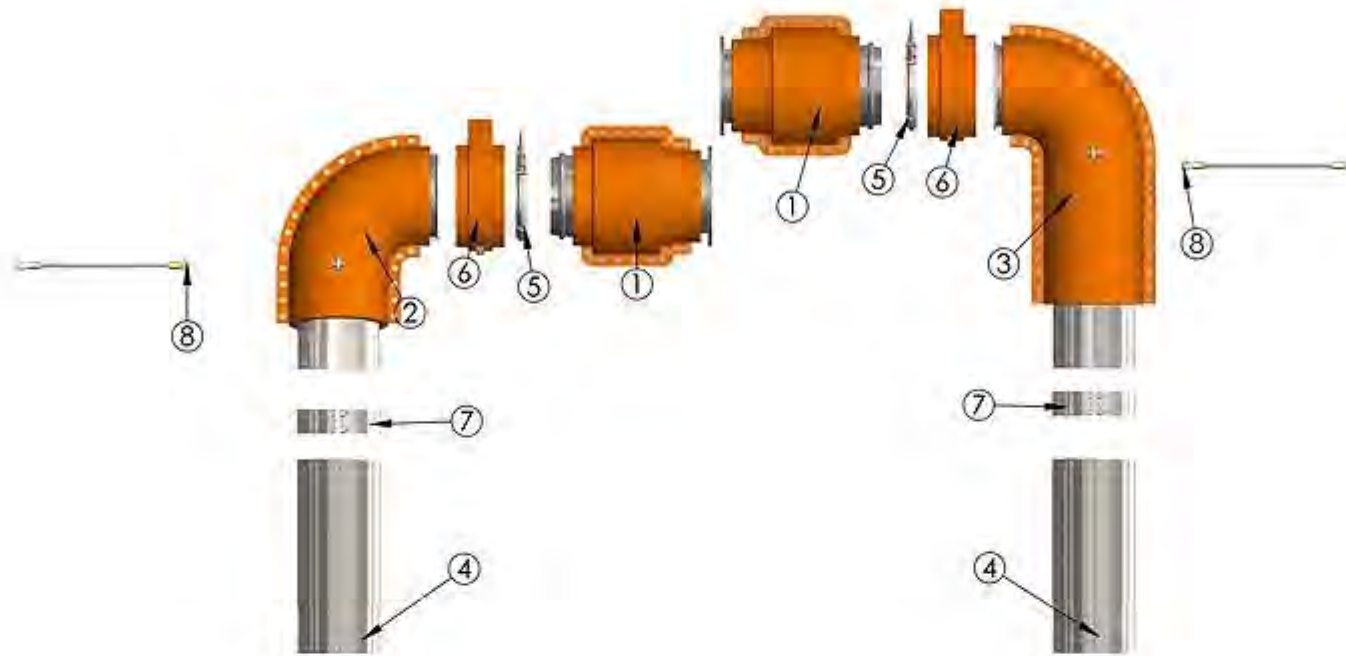
LABEL#	PART#	DESCRIPTION	QTY
1	AD 10	10" FLEX PIPE ADAPTOR	2
2	83FME-1	10" 90° ELBOW W/ LEG	1
3	83FME-2	10" 45° ELBOW W/ LEG	1
4	83FME-3	10" STRAIGHT MID PIPE-MUFFLER 46.5" LONG	1
5	83FME-4	10" STRAIGHT MID PIPE-MUFFLER 37.5" LONG	1
6	83FME-5	10" 45° ELBOW W/ SHORT LEG	1
7	83FME-6	10" 90° ELBOW TO MUFFLER	1
8	EXMV16 10	16" DIAMETER MUFFLER	2
9	EXS 10	10" MUFFLER DOWN SPOUT	2
10	VB 10	10" V-BAND CLAMP	10
11	FBC 10	10" FLAT BAND CLAMP	2
12	VS 10	10" INSULATED V-BAND CLAMP COVER	4
13	EXH 10	10" EXHAUST HANGER KIT	4
14	MB 16	16" MUFFLER MOUNTING BRACKET	4

KOMATSU 830E CUMMINS K2000 INSULATED EXHAUST SYSTEM FROM ENGINE TO HORSE COLLAR



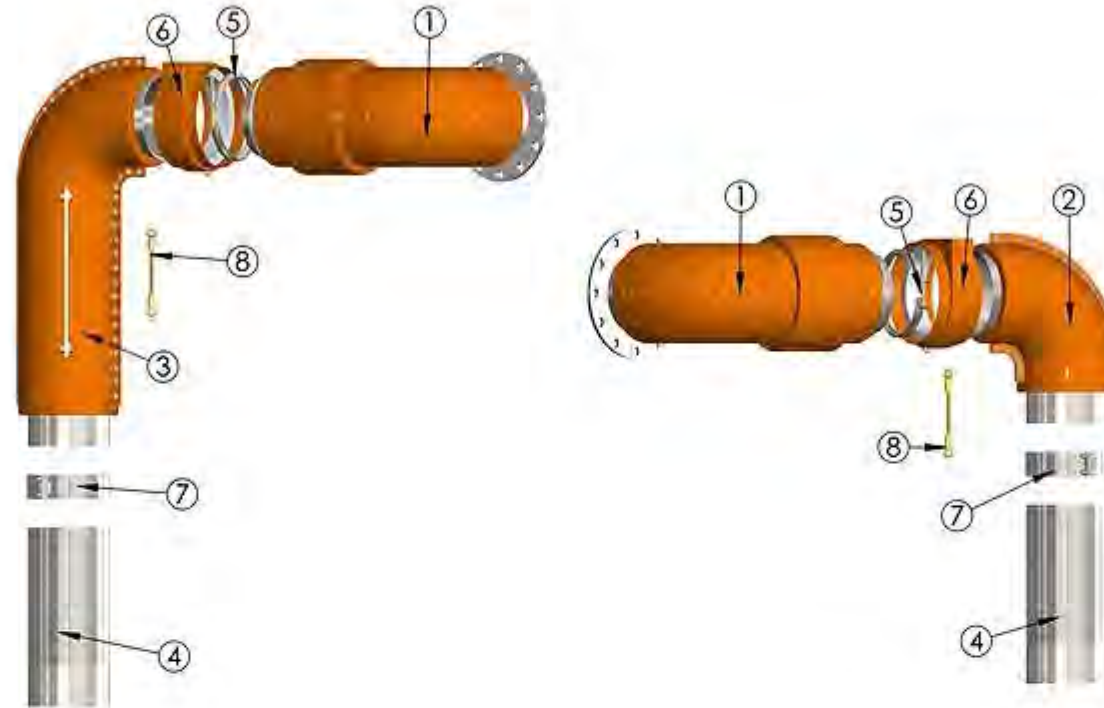
LABEL#	PART#	DESCRIPTION	QTY
1	EXK-01	10" 45° SLASHCUT PIPE W/ BELLOWS	2
2	EXK-02	10" STRAIGHT PIPE	1
3	EXK-03	10" STANDARD 45° ELBOW	2
4	EXK-04	10" STRAIGHT PIPE	1
5	EXK-05	10" 90° ELBOW W/ LEG	1
6	EXK-06	10" DIAMETER SS FLEX PIPE 24" LONG	2
7	VB10	10" V-BAND CLAMP	5
8	VS10	10" INSULATED V-BAND CLAMP COVER	5
9	VB8	8" V-BAND CLAMP	2
10	FBC10	10" FLAT BAND CLAMP	2
11	EXH10	10" EXHAUST HANGER KIT	4

KOMATSU 830E QSK STAGE ONE INSULATED EXHAUST SYSTEM FROM ENGINE TO HORSE COLLAR



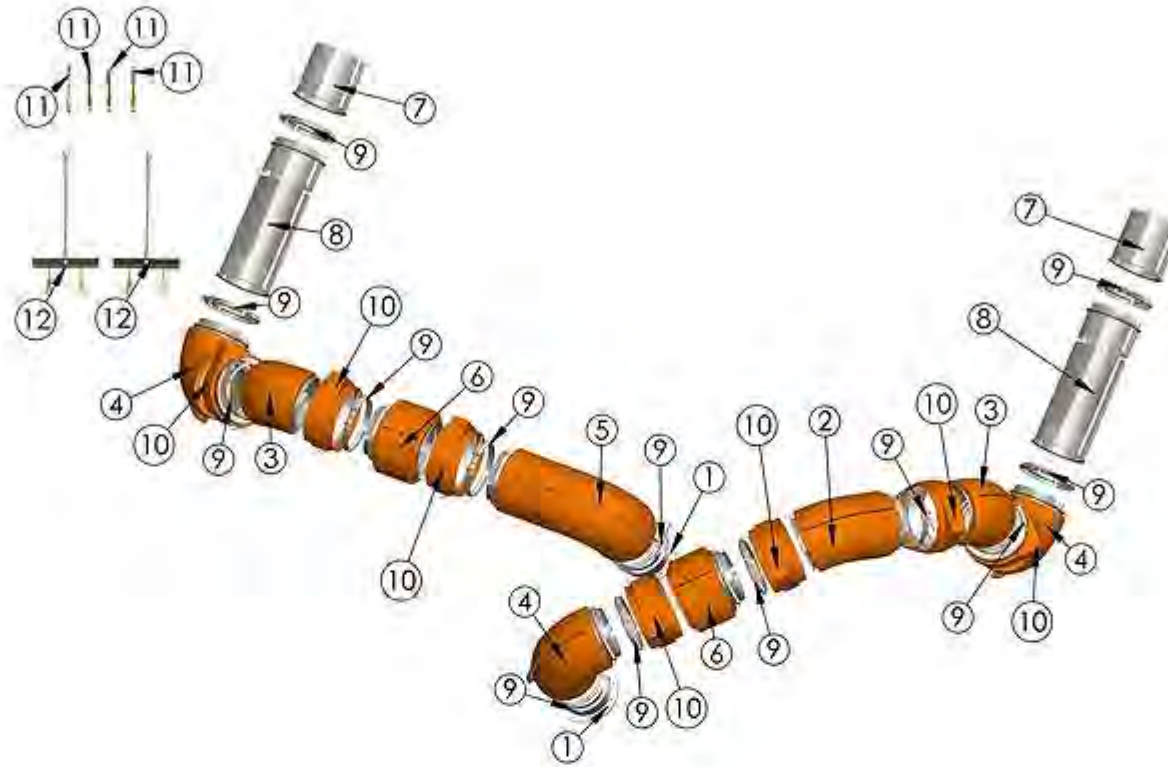
LABEL#	PART#	DESCRIPTION	QTY
1	8361EXA-1	FLANGED TURBO PIPE	2
2	8361EXA-2	10" 90° ELBOW W/ SHORT LEG	1
3	8361EXA-3	10" 90° ELBOW W/ LONG LEG	1
4	8361EXA-4	10" FLEX PIPE CONNECTOR	2
5	VB10	10" V-BAND CLAMP	4
6	VS10	10" V-BAND CLAMP COVER	2
7	FBC10	10" FLAT BAND CLAMP	2
8	EXH10	10" EXHAUST HANGER KIT	2

KOMATSU 830E QSK 60 STAGE TWO INSULATED EXHAUST SYSTEM FROM ENGINE TO HORSE COLLAR



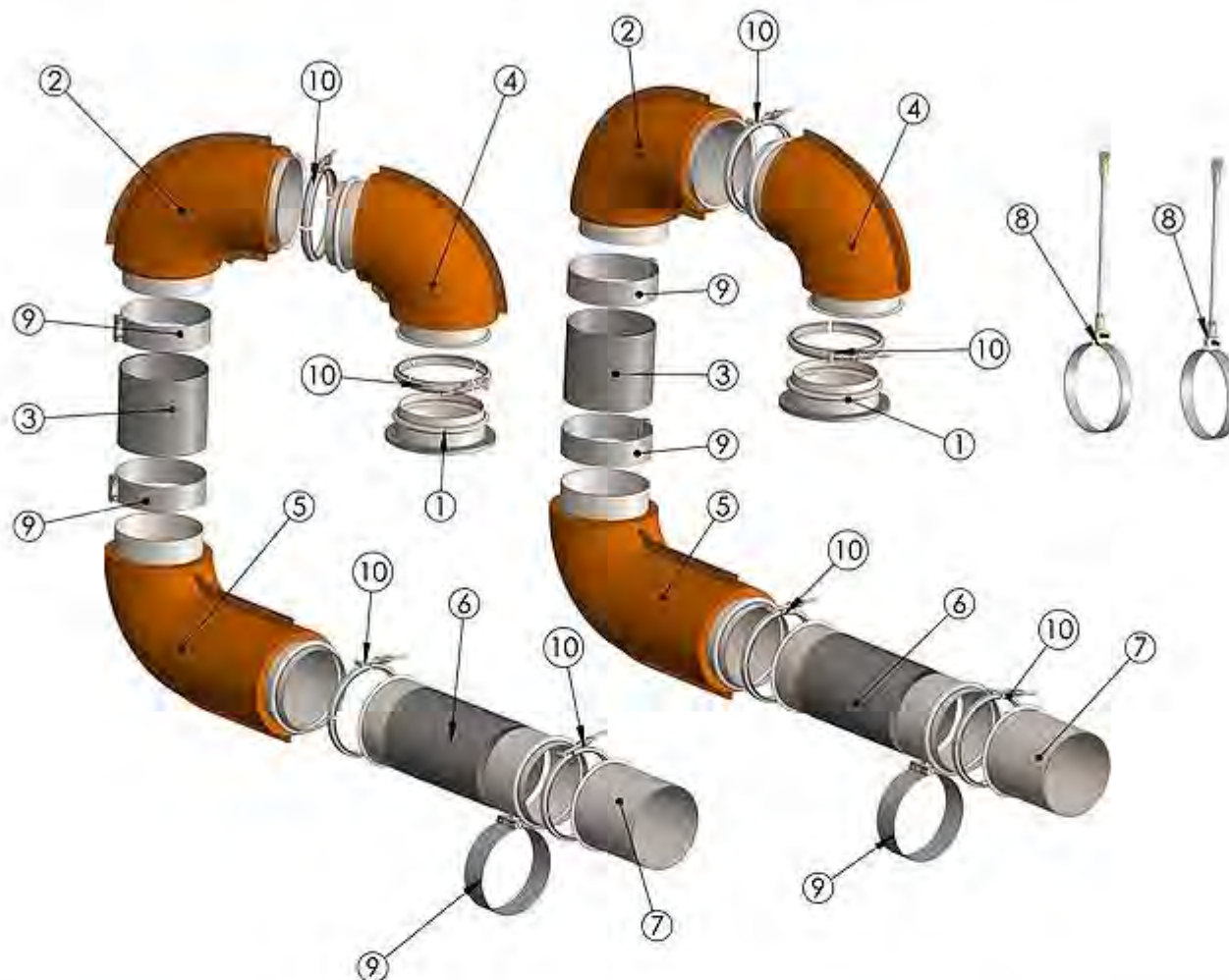
LABEL#	PART#	DESCRIPTION	QTY
1	8362EAX-1	FLANGED TURBO PIPE L AND R SIDES	2
2	8362EAX-2	10" 90° ELBOW R SIDE W/ SHORT LEG	1
3	8362EAX-3	10" 90° ELBOW L SIDE W/ LONG LEG	1
4	8362EAX-4	10" FLEX PIPE CONNECTOR	2
5	VB10	10" V-BAND CLAMP	2
6	VS10	10" INSULATED V-BAND CLAMP COVER	2
7	FBC10	10" SS FLAT BAND CLAMP	2
8	EXH10	10" EXHAUST HANGER KIT	2

KOMATSU 830E DETROIT DIESEL 12V 4000 INSULATED EXHAUST SYSTEM



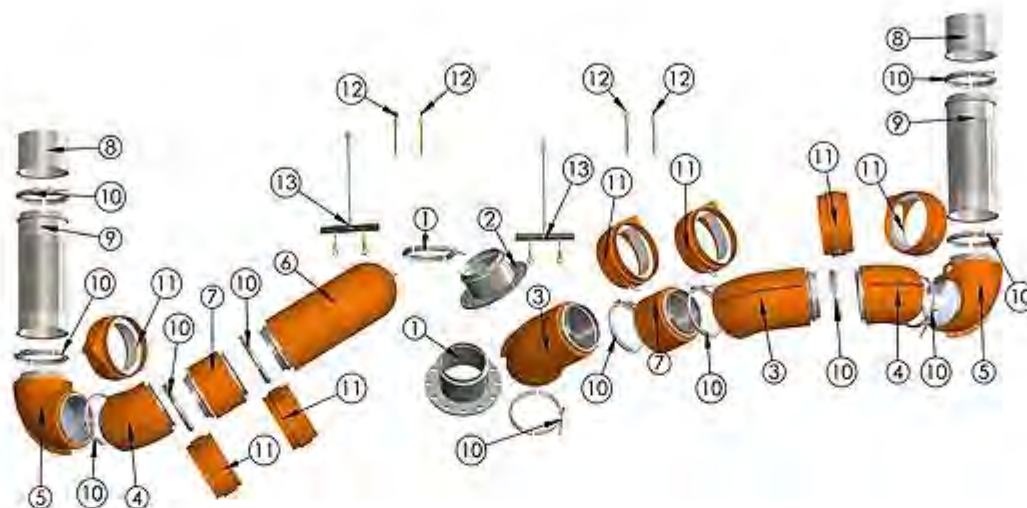
LABEL#	PART#	DESCRIPTION	QTY
1	EX02	5" FLANGED TURBO PIPE	2
2	EX03	10" 45° ELBOW W/ LEG	1
3	EX04	10" STANDARD 45° ELBOW	2
4	EX05	10" STANDARD 90° ELBOW	3
5	EX06	10" 90° ELBOW W/ LEG	1
6	BC10	10" BELLOWS CONNECTOR PIPE	2
7	AD10	10" FLEX PIPE ADAPTOR	2
8	FCA10	10" SS FLEX CONNECTOR PIPE	2
9	VB10	10" V-BAND CLAMP	13
10	VS10	10" INSULATED V-BAND CLAMP COVER	7
11	EXH10	10" EXHAUST HANGER KIT	4
12	BCH10	10" BELLOWS HANGER KIT	2

KOMATSU 830E DETROIT DIESEL 12V TIER TWO INSULATED EXHAUST SYSTEM



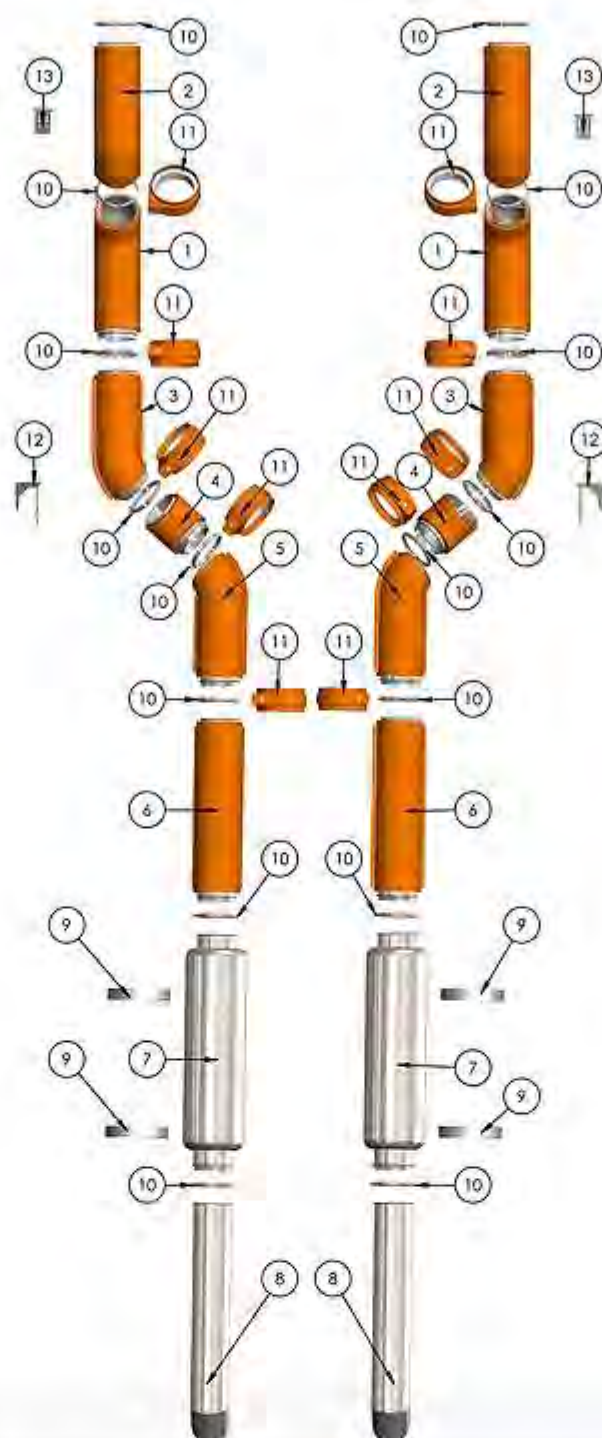
LABEL#	PART#	DESCRIPTION	QTY
1	T2E830-01	10" SHORT FEMALE FLANGED TURBO PIPE	2
2	T2E830-02	10" 90° ELBOW W/LEG	2
3	T2E830-03	9" OF 10" SS FLEX PIPE	2
4	T2E830-04	10" 90° ELBOW	2
5	T2E830-05	90° ELBOW W/ SHORT LEG	2
6	FCA10	10" SS FLEX PIPE	2
7	AD10	10" FLEX PIPE ADAPTOR	2
8	EXH10	10" EXHAUST HANGER KIT	2
9	FBC10	10" FLAT BAND CLAMP	6
10	VB10	10" V-BAND CLAMP	8

KOMATSU 830E DETROIT DIESEL 16V 4000 INSULATED EXHAUST SYSTEM ENGINE TO HORSE COLLAR



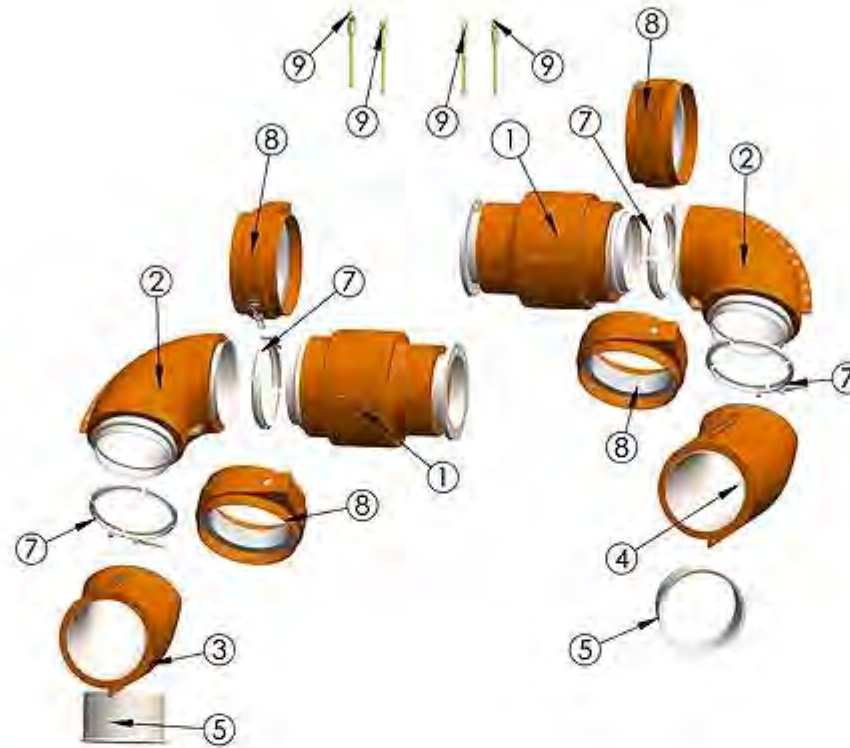
LABEL#	PART#	DESCRIPTION	QTY
1	EX01	7.5" FLANGED TURBO PIPE	1
2	EX02	5" FLANGED TURBO PIPE	1
3	EX03	10" 45° ELBOW W/ SHORT LEG	2
4	EX04	10" STANDARD 45° ELBOW	2
5	EX05	10" STANDARD 90° ELBOW	2
6	EX06	10" 90° ELBOW W/ LEG	1
7	BC10	10" BELLOWS CONNECTOR PIPE	2
8	AD10	10" FLEX PIPE ADAPTOR	2
9	FCA10	10" SS FLEX CONNECTOR PIPE	2
10	VB10	10" V-BAND CLAMP	13
11	VS10	10" INSULATED V-BAND CLAMP COVER	7
12	EXH10	10" EXHAUST HANGER KIT	4
13	BCH10	10" BELLOWS HANGER KIT	2

KOMATSU 930E INFRAME INSULATED EXHAUST SYSTEM FROM BEHIND HORSE COLLAR



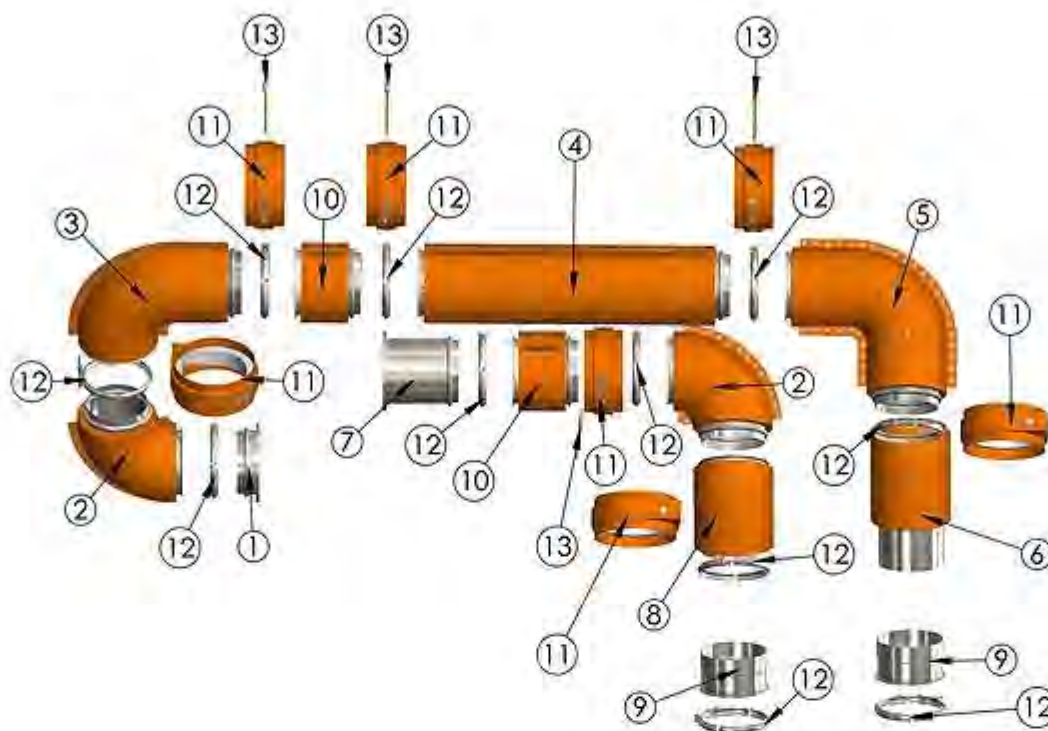
LABEL#	PART#	DESCRIPTION	QTY
1	930IF-01	10" 52° PIPE	2
2	930IF-02	10" 59° PIPE	2
3	930IF-03	10" 52° PIPE	2
4	930IF-04	10" 30° PIPE	2
5	930IF-05	10" 52° PIPE	2
6	930IF-06	10" STRAIGHT PIPE	2
7	EXM1610	16" DIAMETER MUFFLER	2
8	930IF-08	10" MUFFLER DOWN SPOUTS	2
9	MB16	16" MUFFLER BRACKETS	4
10	VB10	10" V-BAND CLAMP	16
11	VS10	10" V-BAND CLAMP COVER	10
12	LCH10	LARGE CHANNEL HANGER	2
13	SCH10	SMALL CHANNEL HANGER	2

KOMATSU 930E QSK 60 STAGE ONE -1-2-3 INSULATED EXHAUST ENGINE TO HORSE COLLAR



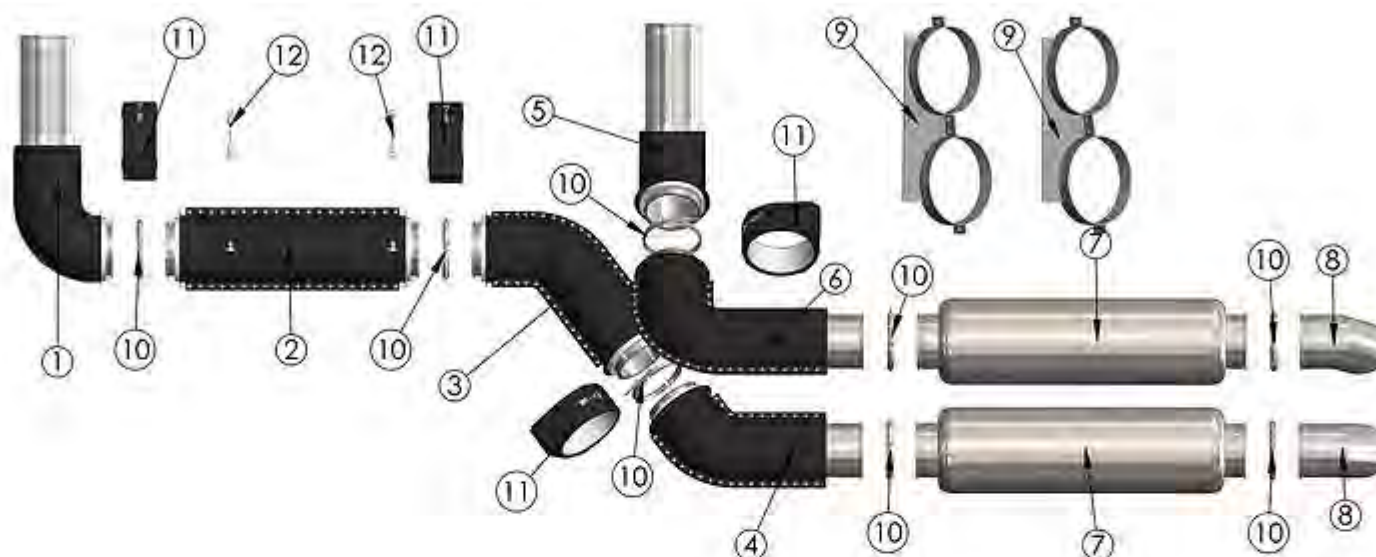
LABEL#	PART#	DESCRIPTION	QTY
1	9361EX-3-01	TURBO PIPE WITH BELLOWS	2
2	9361EX-3-02	10" 90° STANDARD ELBOW	2
3	9361EX-3-03	10" 45° ELBOW W/SHORT LEG	1
4	9361EX-3-04	10" 45° W/LONG LEG	1
5	9361EX-3-05	10" KOMATSU EXHAUST FLANGE	2
7	VB10	10" V-BAND CLAMP	4
8	VS10	10" V-BAND CLAMP COVER	4
9	EXH10	10" EXHAUST HANGER KIT	4

KOMATSU 930E QSK 60 STAGE ONE-2 FENDER MOUNT INSULATED EXHAUST SYSTEM



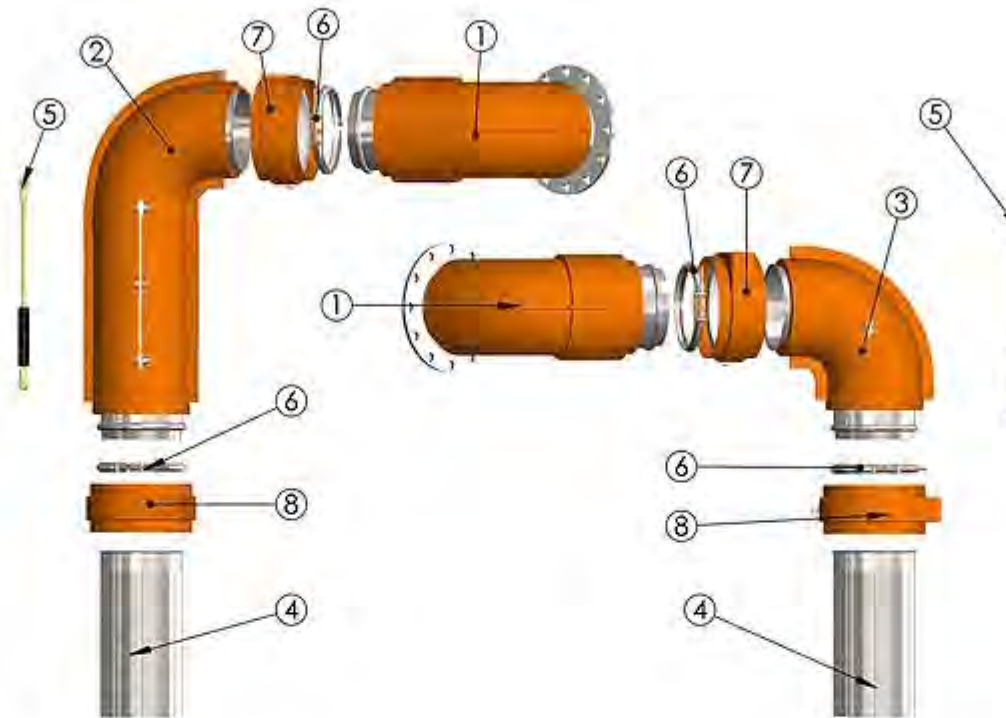
LABEL#	PART#	DESCRIPTION	QTY
1	QSK1932FM-01	SHORT FLANGED TURBO PIPE	1
2	QSK1932FM-02	10" 90° ELBOW	2
3	QSK1932FM-03	10" 90° ELBOW W/SHORT LEG	1
4	QSK1932FM-04	10" STRAIGHT PIPE 46" LONG	1
5	QSK1932FM-05	10" 90° ELBOW W/LEG	1
6	QSK1932FM-06	10" 30° ELBOW W/SHORT LEG	1
7	QSK1932FM-07	SHORT FLANGED TURBO PIPE	1
8	QSK1932FM-08	10" 45° ELBOW W/SHORT LEG	1
9	QSK1932FM-09	10" ID FLANGED ADAPTER	2
10	BC10	10" BELLOWS CONNECTOR	2
11	VS10	10" V-BAND CLAMP COVER	7
12	VB10	10" V-BAND CLAMP	11
13	EXH10	10" EXHAUST HANGER KIT	4

KOMATSU 930E CUMMINS QSK 60 STAGE TWO -4 FENDER MOUNT INSULATED EXHAUST SYSTEM



LABEL#	PART#	DESCRIPTION	QTY
1	930QSKFMP-04	10" PIPE VIA HORSE COLLAR	1
2	930QSKFMP-05	10" STRAIGHT PIPE	1
3	930QSKFMP-06	10" OFFSET PIPE TO MUFFLER	1
4	930QSKFMP-07	PIPE VIA HORSE COLLAR TO MUFFLER	1
5	930QSKFMP-08	10" 90° ELBOW	1
6	930QSKFMP-09	10" STRAIGHT PIPE	1
7	930QSKFMP-10	MUFFLER	2
8	930QSKFMP-11	DOWN SPOUT	2
9	930QSKFMP-12	MUFFLER SADDLE	2
10	VB10	10" V-BAND CLAMP	8
11	NSVS10	INSULATED V-BAND CLAMP COVER	4
14	EXH10	EXHAUST HANGER	2

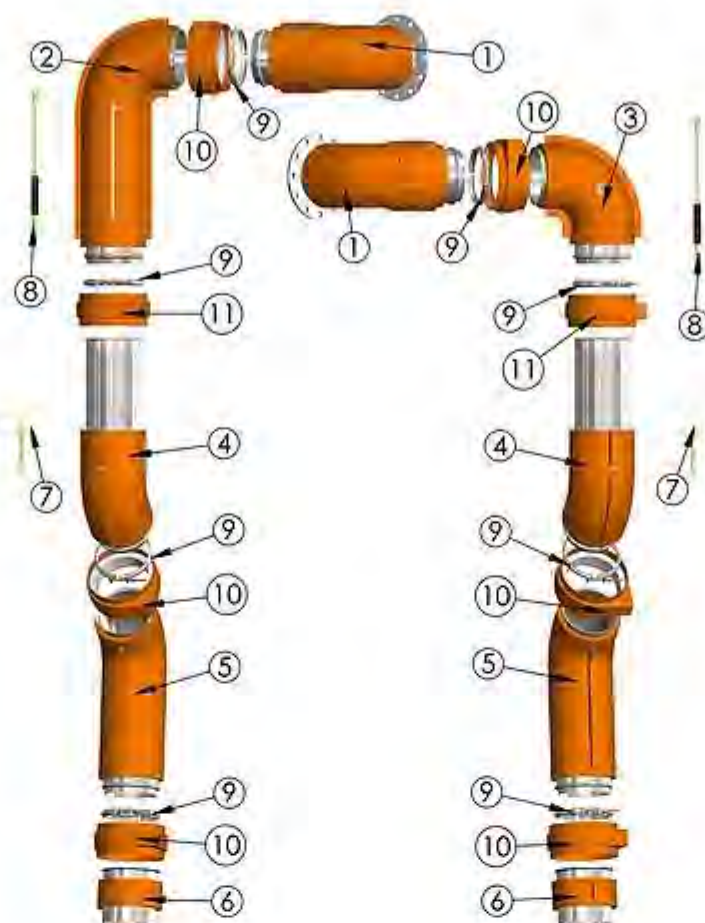
KOMATSU 930E CUMMINS QSK 60 STAGE TWO INSULATED EXHAUST FROM ENGINE TO HORSE COLLAR



LABEL#	PART#	DESCRIPTION
1	930QSK2-NS01	TURBO PIPE OFF ENGINE
2	930QSK2-NS02	10" 90° ELBOW W/LONG LEG
3	930QSK2-NS03	10" 90° ELBOW W/SHORT LEG
4	FAC10	10" SS FLEX PIPE
5	SHN001	PRE-LOADED SPRING HANGER
6	VB10	10" V-BAND CLAMP
7	NSVS10	10" V-BAND CLAMP COVER
8	HCVS10	HORSE COLLAR CLAMP COVER

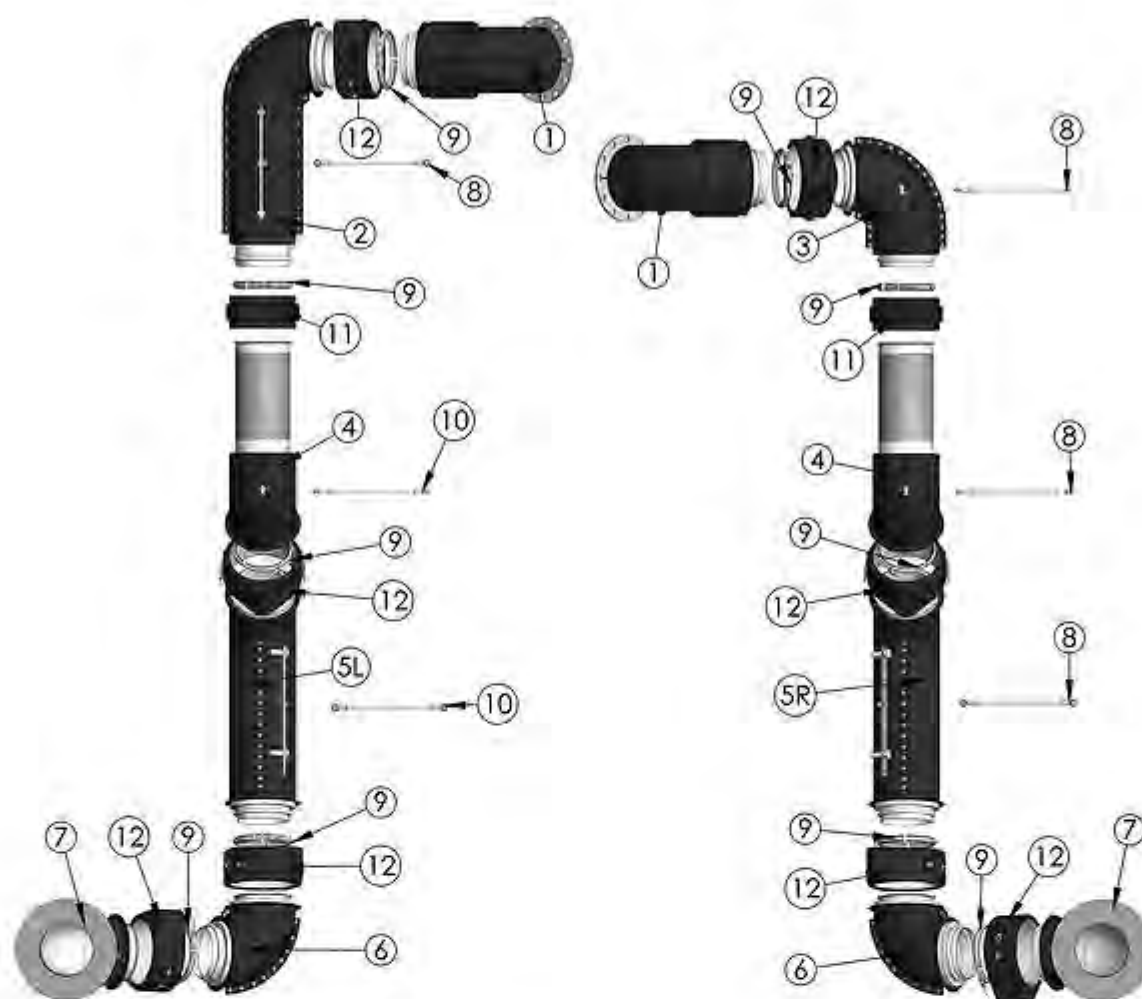
KOMATSU 930E CUMMINS QSK 60 STAGE TWO INSULATED EXHAUST FROM ENGINE TO LOWER HEATED BOX

PAGE 7-15



LABEL#	PART#	DESCRIPTION	QTY
1	930QSK2-NS01	TURBO PIPE OFF ENGINE	2
2	930QSK2-NS02	10" 90° ELBOW W/LONG LEG	1
3	930QSK2-NS03	10" 90° ELBOW W/SHORT LEG	1
4	930-HBNS-01	FLEX PIPE W/ 52° ELBOW	2
5	930-HBNS-02	10" 59° ELBOW	2
6	930-HBNS-03	10" STRAIGHT PIPE TO HEATED BOX	2
7	EXH10	10" EXHAUST HANGER KIT	2
8	SHN001	PRE-LOADED SPRING HANGER	2
9	VB10	10" V-BAND CLAMP	8
10	NSVS10	10" V-BAND CLAMP COVER	6
11	HCVS10	HORSE COLLAR CLAMP COVER	2
12	273V	HIGH HEAT O-RING	8

KOMATSU 930E CUMMINS QSK 60 STAGE 2 ENGINE TO UPPER HEATED BOX INSULATED EXHAUST SYSTEM

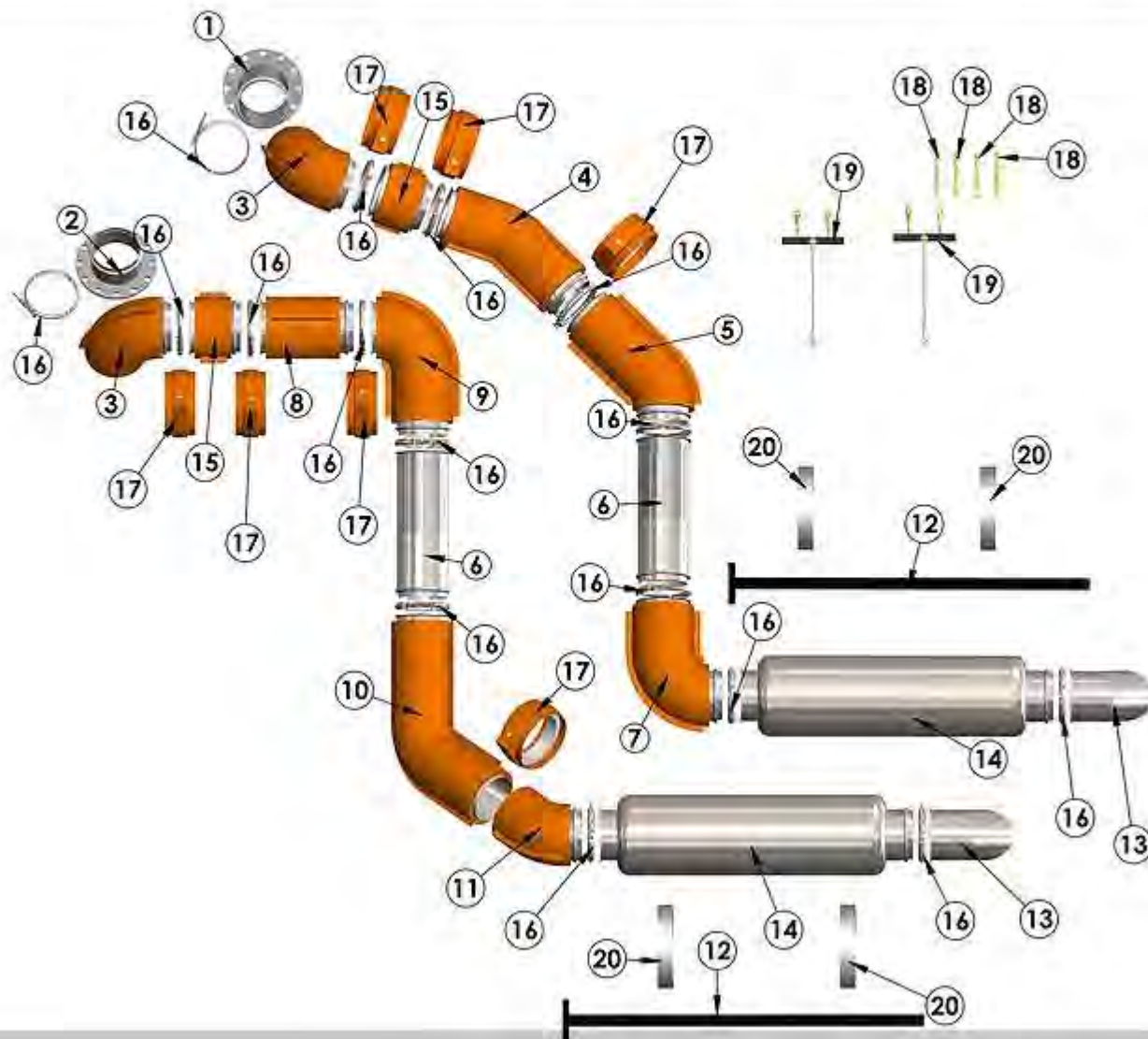


LABEL#	PART#	DESCRIPTION	QTY
1	930QSKNCP-01	10" 60° FLANGED TURBO BELLOWS PIPE	2
2	930QSKNCP-02	10" 90° ELBOW WITH LONG LEG	1
3	930QSKNCP-03	90° ELBOW WITH SHORT LEG	1
4	930QSKNCP-04	47° VIA HORSE COLLAR PIPE	2
5L	930QSKNCP-05R	55° MID PIPE RIGHT SIDE	1
5R	930QSKNCP-05L	55° MID PIPE LEFT SIDE	1
6	930QSKNCP-06	90° TO UPPER HEATED BOX	2
7	930QSKNCP-07	65° TO UPPER HEATED BOX	2
8	SHN001	PRE-LOADED SPRING HANGER	2
9	EXH10	10" EXHAUST HANGER W/ BRACKETS	4
10	VB10	10" V-BAND CLAMPS	10
11	HCV10	HORSE COLLAR CLAMP COVER	2
12	NSVS210	NS 10" INSULATED V-BAND CLAMP COVERS	8

KOMATSU 930E DETROIT DIESEL 16V 4000-2 FENDER MOUNT INSULATED EXHAUST SYSTEM

ENGINE COMPARTMENT TO HORSE COLLAR

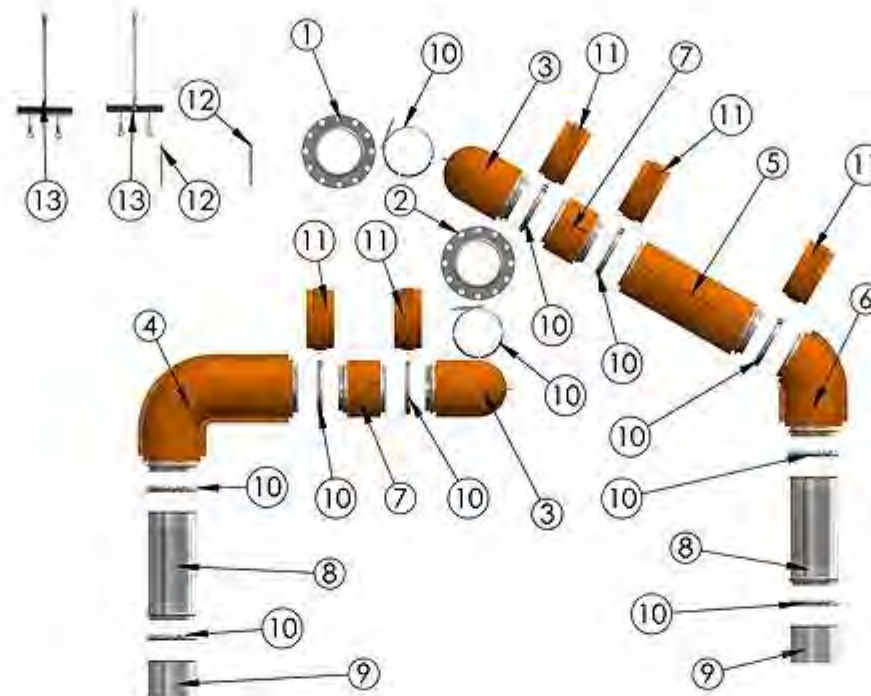
NOTE: BOTH BANKS GO TO RIGHT SIDE OF HORSE COLLAR



LABEL#	PART#	DESCRIPTION	QTY
1	930-16DF-01	11" FLANGED TURBO PIPE	1
2	930-16DF-02	5" FLANGED TURBO PIPE	1
3	930-16DF-03	10" STANDARD 90° ELBOW	2
4	930-16DF-04	10" 30° ELBOW W/LEG	1
5	930-16DF-05	10" 59° ELBOW	1
6	930-16DF-06	10" SS FLEX PIPE	2
7	930-16DF-07	10" 90° ELBOW W/LEG	1
8	930-16DF-08	10" STRAIGHT PIPE	1
9	930-16DF-09	10" 90° ELBOW W/LEG	1
10	930-16DF-10	10" 59° ELBOW W/LEG	1
11	930-16DF-11	10" 45° ELBOW W/LEG	1
12	930-16DF-12	MUFFLER CHANNEL IRON	2
13	EXS10	10" MUFFLER DOWN SPOUT	2
14	EXM13	16" DIAMETER MUFFLER	2
15	BC10	10" BELLOWS PIPE	2
16	VB10	10" V-BAND CLAMPS	16
17	VS10	10" INSULATED V-BAND CLAMP COVER	7
18	EXH10	10" EXHAUST HANGER KIT	4
19	BCH10	10" BELLOWS HANGER KIT	2
20	MB16	16" MUFFLER BRACKET	4

KOMATSU 930E DETROIT DIESEL 16V 4000 INSULATED EXHAUST FROM ENGINE TO HORSE COLLAR

PAGE 7-18



LABEL#	PART#	DESCRIPTION	QTY
1	930-16-01F	2.5" FLANGE PIPE	1
2	930-16-01B	5" FLANGED PIPE	1
3	930-16-02	10" STANDARD 90° ELBOW	2
4	930-16-03	10" 90° ELBOW W/ LEG	1
5	930-16-04	29" OF STRAIGHT TUBE TUBE	1
6	930-16-05	10" 60° ELBOW	1
7	BC10	10" BELLOWS PIPE	2
8	FCA10	10" SS FLEX CONNECTORS	2
9	AD10	10" FLEX PIPE ADAPTER	2
10	VB10	10" V-BAND CLAMPS	11
11	VS10	10" INSULATED V-BAND CLAMP COVER	5
12	EXH10	10" EXHAUST HANGER KIT	2
13	BCH10	10" BELLOWS HANGER KIT	2

CATERPILLAR 797F INSULATED EXHAUST SYSTEM



LABEL#	PART#	DESCRIPTION	QTY
1	79712TBC-01	12" BELLOWS FROM TURBO	2
2	79712MBC-02	12" BELLOWS TO EXHAUST PIPE	2
3	79712LP-02	12" LEFTHAND EXHAUST PIPE	1
4	79712RP-03	12" RIGHTHAND EXHAUST PIPE	1
5	EXMI-16-12	MUFFLER 16" BODY 12" IN\OUT	2
6	MB 16	16" MUFFLER SADDLE BRACKETS	4
7	VB 12	12" VBAND CLAMPS	8
8	NSVS12-2	12" VBAND CLAMP COVER	4

UNIVERSAL MINING TRUCK MUFFLERS

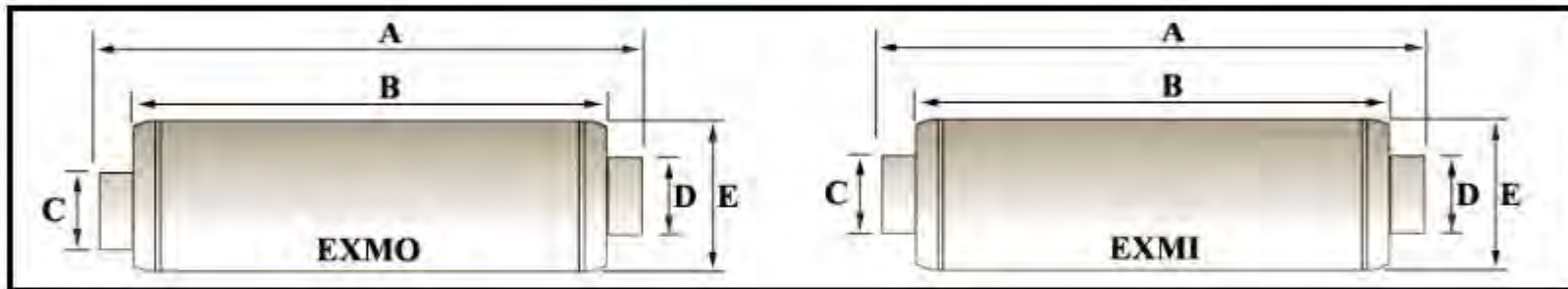
<u>16" DIAMETER ID/OD MUFFLERS</u>	7-20-1
<u>16" DIAMETER V-BAND STYLE MUFFLERS</u>	7-20-2
<u>18" DIAMETER ID/OD MUFFLERS</u>	7-20-3
<u>18" DIAMETER V-BAND STYLE MUFFLERS</u>	7-20-4
<u>20" DIAMETER ID/OD MUFFLERS</u>	7-20-5
<u>20" DIAMETER V-BAND STYLE MUFFLERS</u>	7-20-6
<u>ID/OD MUFFLER DOWN SPOUTS</u>	7-20-7
<u>V-BAND STYLE MUFFLER DOWN SPOUTS</u>	7-20-8
<u>MALE V-BAND STLYE MUFFLER ADAPTER</u>	7-20-9
<u>SINGLE MUFFLER MOUNTING BRACKETS</u>	7-20-10
<u>DOUBLE MUFFLER MOUNTING BRACKETS</u>	7-20-11

UNIVERSAL MINING TRUCK MUFFLERS

16" Diameter ID/OD Mufflers

THESE MUFFLERS ARE TYPICALLY USED ON 12V & 16V
DETROIT & CUMMINS ENGINES

ALL PRICES ARE USD

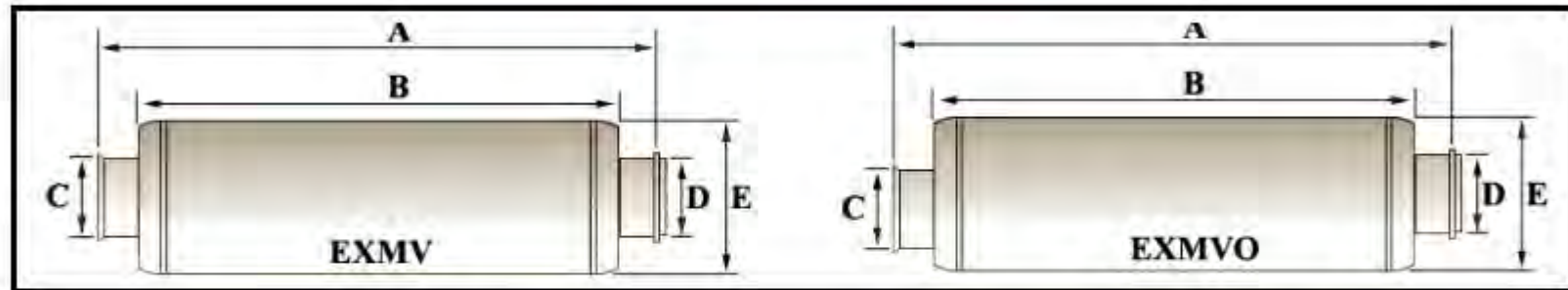


16" Diameter ID/OD Mufflers Offset (EXMO) or Straight (EXMI)

PART#	A	B	C	D	E	INLET
	OVERALL	BODY	ID	OD	DIA	OFFSET
EXMO 16 8	59"	54"	8"	8"	16"	2" OFFSET
EXMI 16 8	59"	54"	8"	8"	16"	CENTRE
EXMO 16 10	59"	54"	10"	10"	16"	2" OFFSET
EXMI 16 10	59"	54"	10"	10"	16"	CENTRE

UNIVERSAL MINING TRUCK MUFFLERS 16" DIAMETER V-BAND STYLE MUFFLERS

ALL PRICES ARE USD



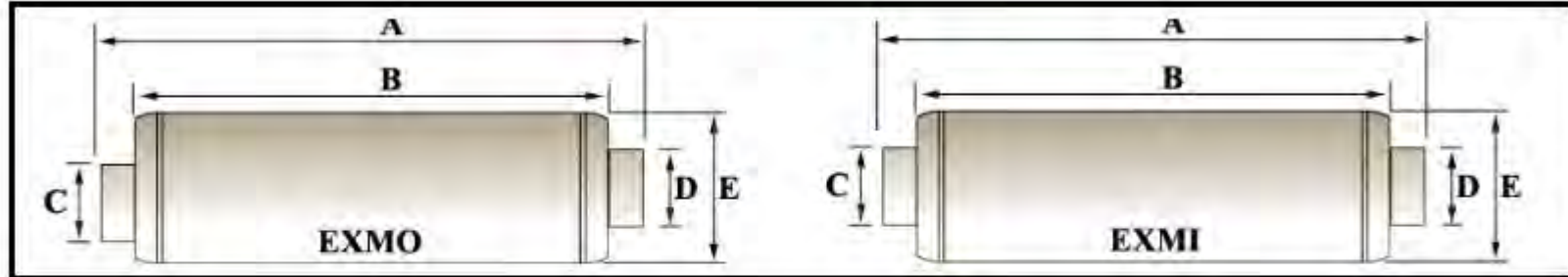
16" DIAMETER V-BAND STYLE MUFFLERS STRAIGHT (EXMV) OR OFFSET (EXMVO)

PART#	A	B	C	D	E	INLET
	OVERALL	BODY	ID	OD	DIA	OFFSET
EXMV 16 8	59"	54"	8"	8"	16"	CENTRE
EXMVO 16 8	59"	54"	8"	8"	16"	2"OFFSET
EXMV 16 10	59"	54"	10"	10"	16"	CENTRE
EXMVO 16 10	59"	54"	10"	10"	16"	2" OFFSET

UNIVERSAL MINING TRUCK MUFFLERS

18" DIAMETER ID/OD MUFFLERS

ALL PRICES ARE USD

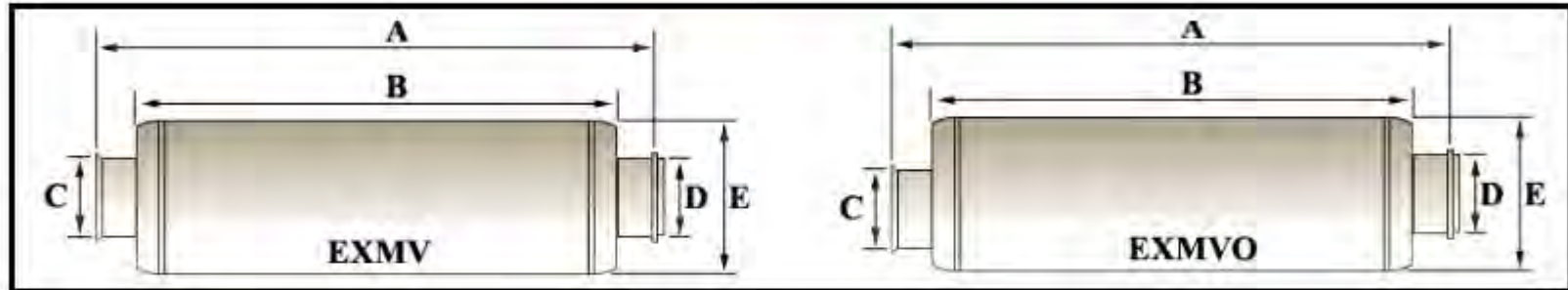


18" DIAMETER ID/OD MUFFLERS OFFSET (EXMO) OR STRAIGHT (EXMI)

PART#	A OVERALL	B BODY	C ID	D OD	E DIA	INLET OFFSET
EXMO 18 8	59"	54"	8"	8"	18"	2" OFFSET
EXMI 18 8	59"	54"	8"	8"	18"	CENTRE
EXMO 18 10	59"	54"	10"	10"	18"	2" OFFSET
EXMI 18 10	59"	54"	10"	10"	18"	CENTRE
EXMO 18 12	59"	54"	12"	12"	18"	2" OFFSET
EXMO 18 12	59"	54"	12"	12"	18"	CENTRE

UNIVERSAL MINING TRUCK MUFFLERS 18" DIAMETER V-BAND STYLE MUFFLERS

ALL PRICES ARE USD



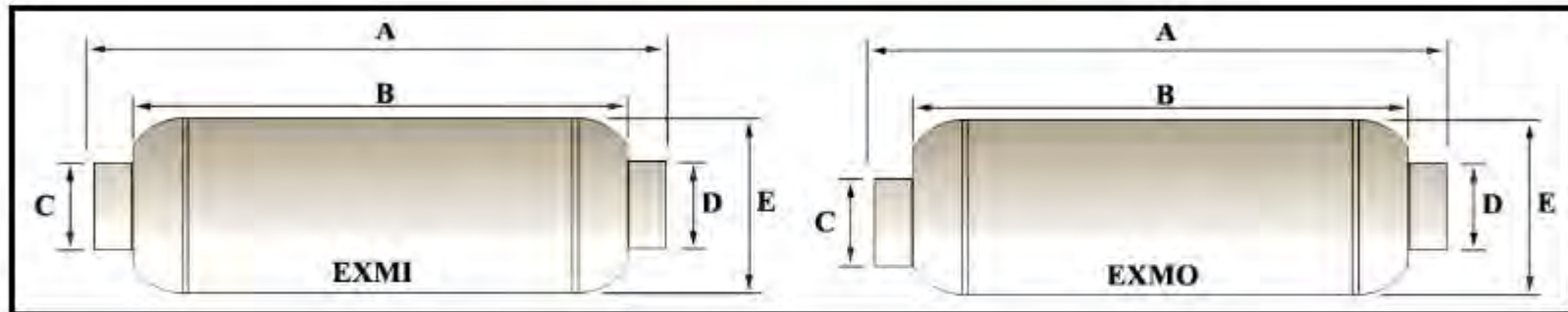
18" DIAMETER V-BAND STYLE MUFFLERS STRAIGHT (EXMV) OR OFFSET (EXMVO)

PART#	A	B	C	D	E	INLET
	OVERALL	BODY	ID	OD	DIA	OFFSET
EXMV 18 8	59"	54"	10"	10"	18"	CENTRE
EXMVO 18 8	59"	54"	8"	8"	18"	2" OFFSET
EXMV 18 10	59"	54"	10"	10"	18"	CENTRE
EXMVO 18 10	59"	54"	10"	10"	18"	2" OFFSET
EXMVO 18 12	59"	54"	12"	12"	18"	CENTRE
EXMVO 18 12	59"	54"	12"	12"	18"	2" OFFSET

UNIVERSAL MINING TRUCK MUFFLERS

20" DIAMETER ID/OD MUFFLERS

ALL PRICES ARE USD

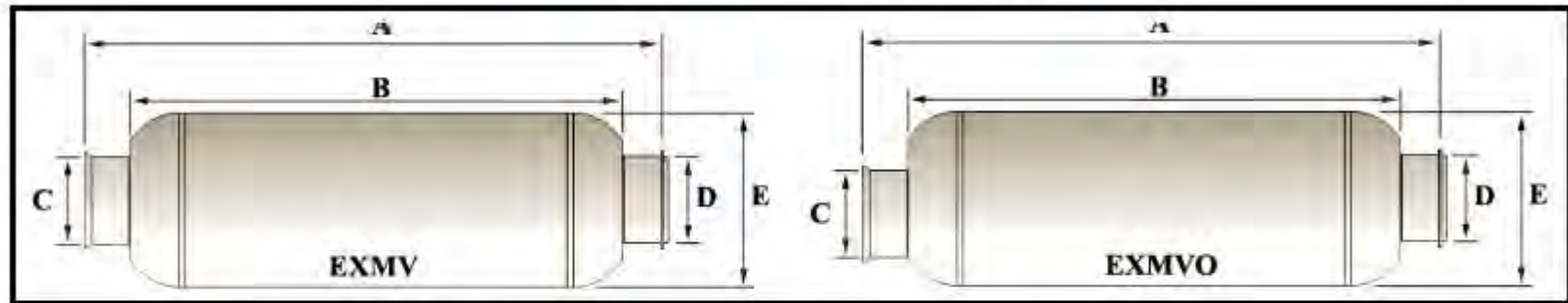


20" DIAMETER ID/OD MUFFLERS STRAIGHT (EXMI) or OFFSET (EXMO)

PART#	A	B	C	D	E	INLET
	OVERALL	BODY	ID	OD	DIA	OFFSET
EXMI 20 10	59"	54"	10"	10"	20"	CENTRE
EXMO 20 10	59"	54"	10"	10"	20"	2" OFFSET
EXMI 20 12	59"	54"	12"	12"	20"	CENTRE
EXMO 20 12	59"	54"	12"	12"	20"	2" OFFSET

UNIVERSAL MINING TRUCK MUFFLERS 20" DIAMETER V-BAND STYLE MUFFLERS

ALL PRICES ARE USD

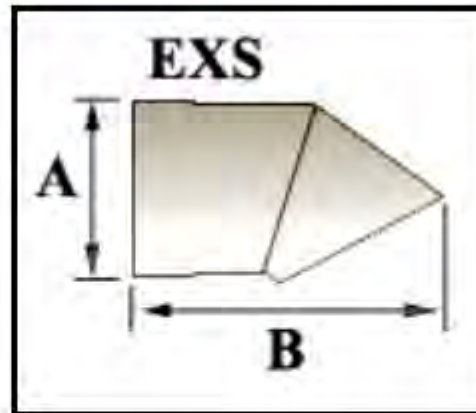


20" DIAMETER V-BAND STYLE MUFFLERS STRAIGHT (EXMV) OR OFFSET (EXMVO)

PART#	A	B	C	D	E	INLET
	OVERALL	BODY	ID	OD	DIA	OFFSET
EXMV 20 10	59"	54"	10"	10"	20"	CENTRE
EXMVO 20 10	59"	54"	10"	10"	20"	2" OFFSET
EXMV 20 12	59"	54"	12"	12"	20"	CENTRE
EXMVO 20 12	59"	54"	12"	12"	20"	2" OFFSET

UNIVERSAL MINING TRUCK MUFFLERS ID/OD MUFFLER DOWN SPOUTS

ALL PRICES ARE USD



10" & 12" ID/OD MUFFLER DOWN SPOUTS

PART#	A	B
EXS 8	8"	16"
EXS 10	10"	16"
EXS 12	12"	16"

UNIVERSAL MINING TRUCK MUFFLERS

V-BAND STYLE MUFFLER DOWN SPOUTS

THE FOLLOWING DIAGRAM ILLUSTRATES HOW THE V-BAND STYLE MUFFLERS AND DOWN SPOUTS WILL FIT TOGETHER

ALL PRICES ARE USD

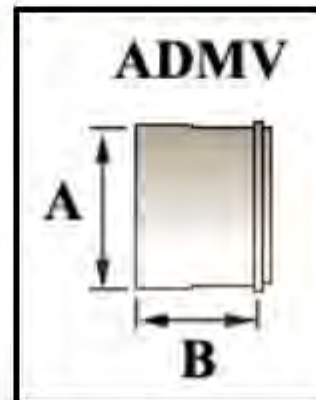


8", 10" & 12" V-BAND STYLE MUFFLER DOWN SPOUTS

PART#	A	B
EXSV 8	8"	16"
EXSV 10	10"	16"
EXSV 12	12"	16"

UNIVERSAL MINING TRUCK MUFFLERS MALE V-BAND STYLE MUFFLER ADAPTER

ALL PRICES ARE USD

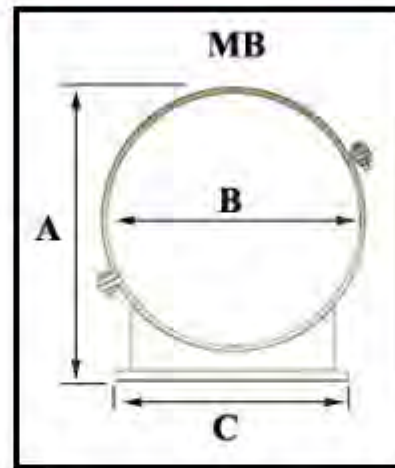


8", 10" & 12" MALE V-BAND STYLE MUFFLER ADAPTER

PART#	A	B
ADMV 8	8"	10"
ADMV 10	10"	10"
ADMV 12	12"	10"

UNIVERSAL MINING TRUCK MUFFLER SINGLE MUFFLER MOUNTING BRACKETS

ALL PRICES ARE USD

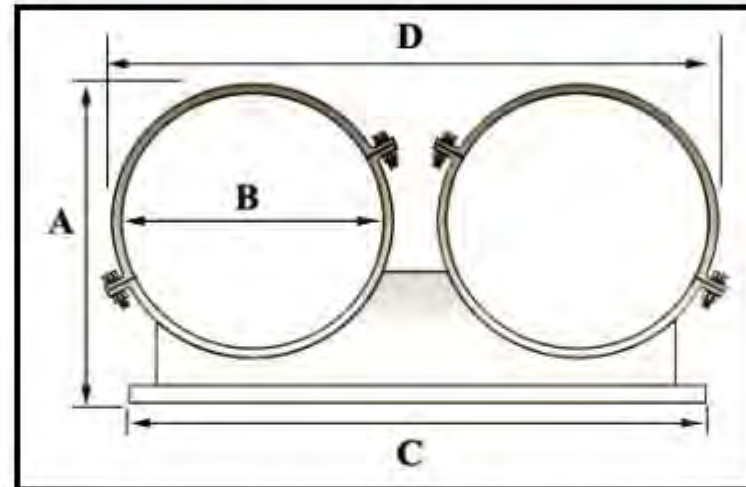


16", 18" & 20" SINGLE MUFFLER MOUNTING BRACKETS

PART#	A	B	C
MB16	17.75"	16"	14"
MB18	17.75"	18"	16"
MB20	17.75"	20"	18"

UNIVERSAL MINING TRUNK MUFFLERS DOUBLE MUFFLER MOUNTING BRACKETS

ALL PRICES ARE USD



16", 18" & 20" DOUBLE MUFFLER MOUNTING BRACKETS

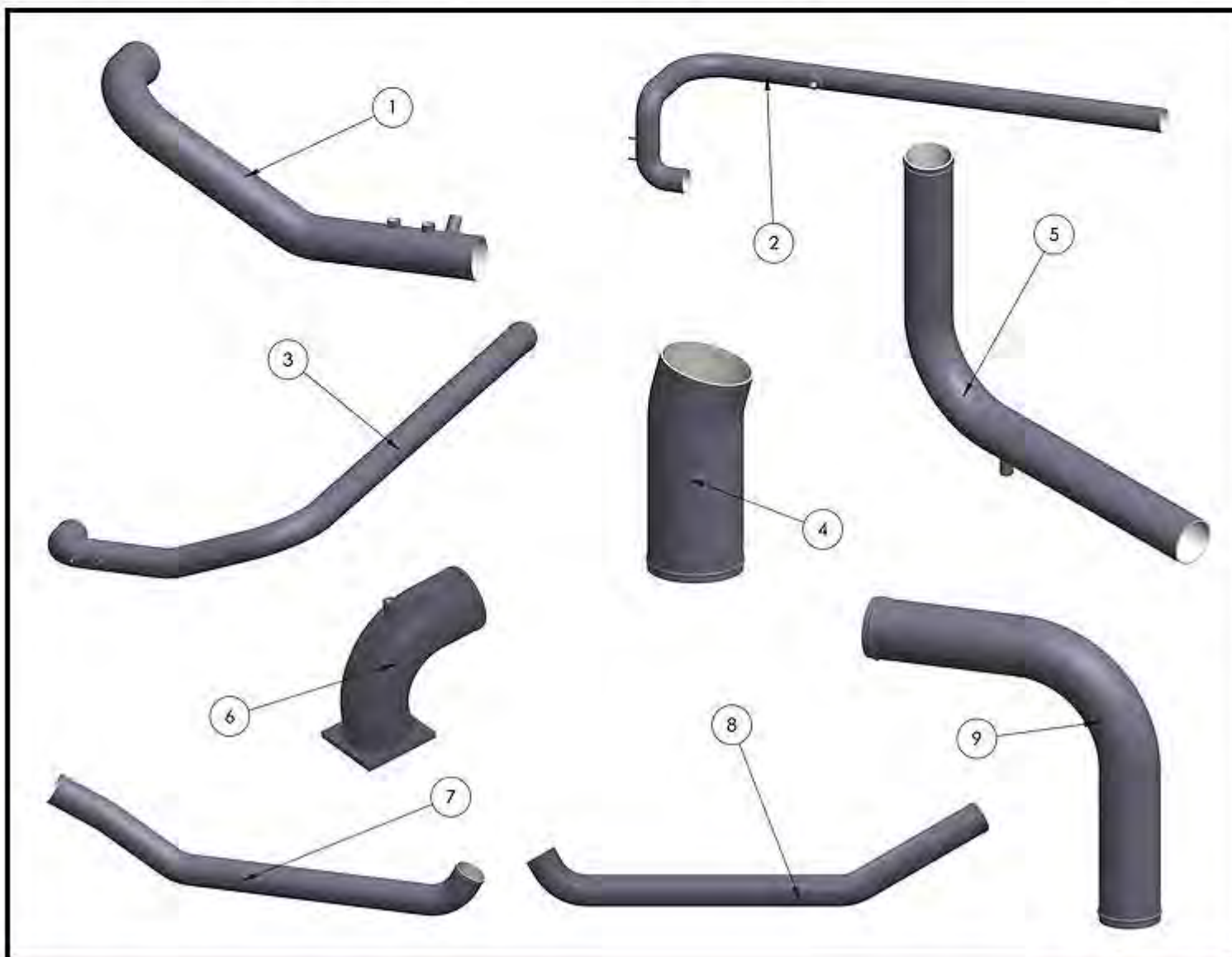
PART#	A	B	C	D
MBD16	17.75"	16"	32"	34"
MBD18	17.75"	18"	34"	38"
MBD20	17.75"	20"	40"	42"

COOLANT KITS FOR CUMMINS AND DETROIT ENGINES

<u>KOMATSU 830E CUMMINS K2000 COOLANT KIT</u>	8-1
<u>KOMATSU 830E CUMMINS QSK 60 STAGE ONE COOLANT KIT</u>	8-2
<u>KOMATSU 830E CUMMINS QSK 60 STAGE TWO COOLANT KIT</u>	8-3
<u>KOMATSU 830E DETROIT DIESEL 12V 4000 COOLANT KIT</u>	8-4
<u>KOMATSU 830E DETROIT DIESEL 12V TIER TWO COOLANT KIT</u>	8-5
<u>KOMATSU 830E DETROIT DIESEL 16V 4000 COOLANT KIT</u>	8-6
<u>KOMATSU 830E DETROIT DIESEL 16V 4000 IPS COOLANT KIT</u>	8-7

KOMATSU 830E CUMMINS K2000 COOLANT KIT

LABEL #	PART#	DESCRIPTION	QTY
1	830-1-CS	5" 90°/30° RAD PIPE	1
2	830-2-CS	2.25" RAD PIPE	1
3	830-3-CS	2.25" RAD PIPE	1
4	830-4-CS	3.5" 15° ELBOW	2
5	830-5-CS	2.25" 90° RAD PIPE	1
6	830-0918-CS	5" FLANGED SHORT 90° ELBOW	1
7	830-OLTCS	3.5" UPPER LH RAD PIPE	1
8	830-ORTCS	3.5" UPPER RH RAD PIPE	1
9	89231A	2.25" 90° BEADED END ELBOW	1
10	90915K	2.25" UBOLT CLAMP	2
11	90929K	2" UBOLT CLAMP	1
12	89559K	5" UBOLT CLAMP	1



KOMATSU 830E CUMMINS QSK 60 STAGE ONE COOLANT KIT

LABEL#	PART#	DESCRIPTION	QTY
1	LTA1-22	WATER PUMP INLET PIPE	1
2	LTA2-22	PIPE RS FROM STAT OUTLET	1
3	LTA3-22	RS PIPE EXTENSION	1
4	LTA4-22	STAT OUTLET ADAPTOR	1
5	LTA5-22	RS RAD OUTLET ADAPTOR	1
6	LTA6-22	LEFT SIDE RAD OUTLET ADAPTOR	1
7	CS1-22	MAIN WATER PUMP INLET PIPE	1
8	CS2-22	MAIN RAD OUTLET ADAPTOR	1
9	CS3-22	3.5" 15° OUTLET ADAPTOR	2
10	CSA-1	4"X4"X1" SQUARE FLANGE	2
11	131 139	5" CLAMP	4
12	89556K	3" U BOLT CLAMP	4
13	89559K	5" U BOLT CLAMP	1



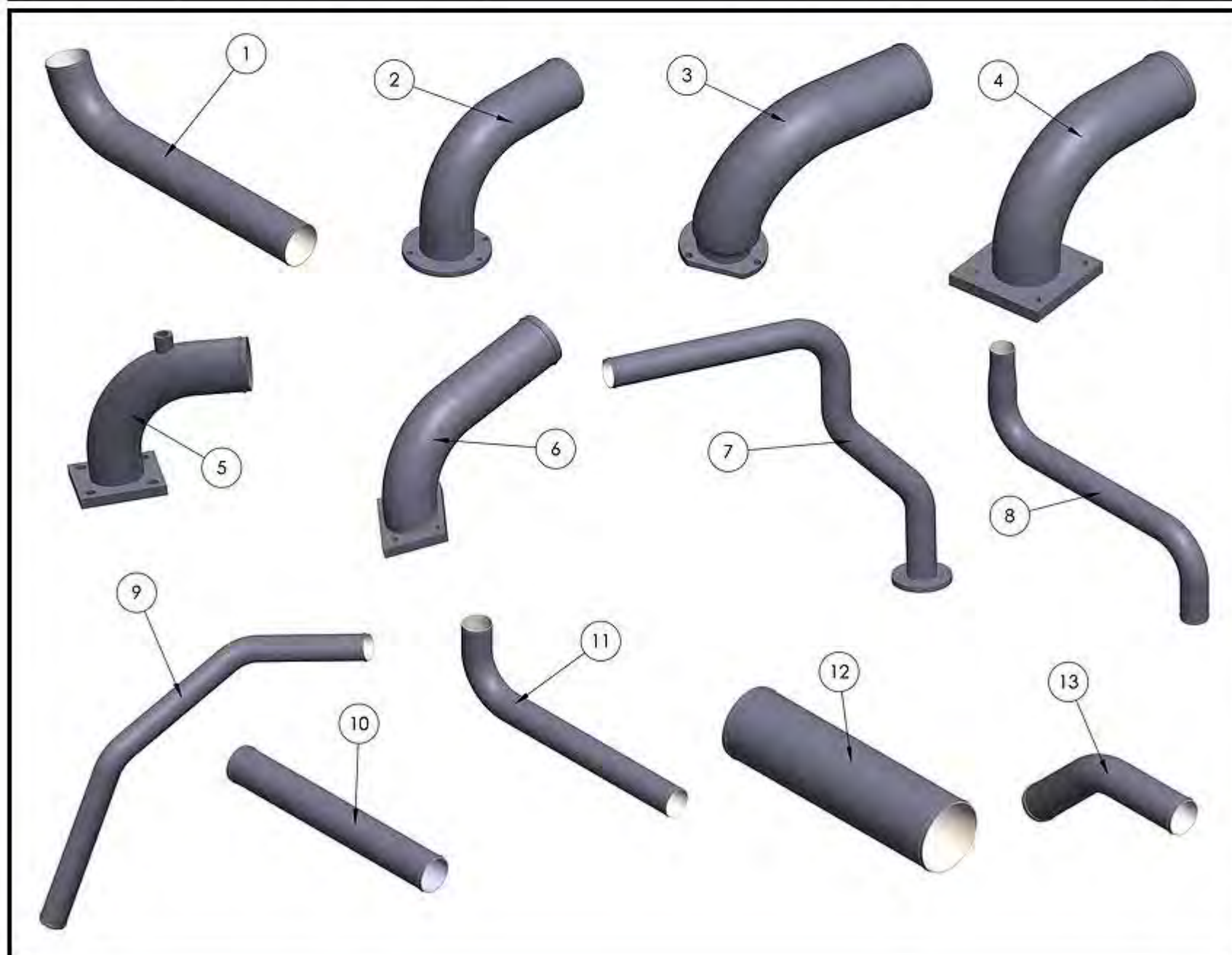
KOMATSU 830E CUMMINS QSK 60 STAGE TWO COOLANT KIT

LABEL#	PART#	DESCRIPTION	QTY
1	LTA1-25	WATER PUMP INLET PIPE	1
2	LTA2-25	STAT HOUSING ADAPTOR	1
3	LTA3-25	RIGHT SIDE EXTENSION PIPE	1
4	LTA4-25	STAT HOUSING ADAPTOR	1
5	LTA5-25	RAD OUTLET ELBOW	1
6	LTA6-25	RAD OUTLET ELBOW	1
7	LTA7-25	RAD TO WATERPUMP EXTENSION	1
8	CS1-25	MAIN WATER INLET PIPE	1
9	CS2-25	MAIN RAD OUTLET – CUMMINS FLANGE	1
10	CS3-25	3 ½" 30° MAIN COOLANT PIPE	2
11	CSA-1	4"X4"X1" SQUARE FLANGE	2
12	131 139	5" CLAMP	4
13	89556K	3" U BOLT CLAMP	4
14	89559K	5" U BOLT CLAMP	1



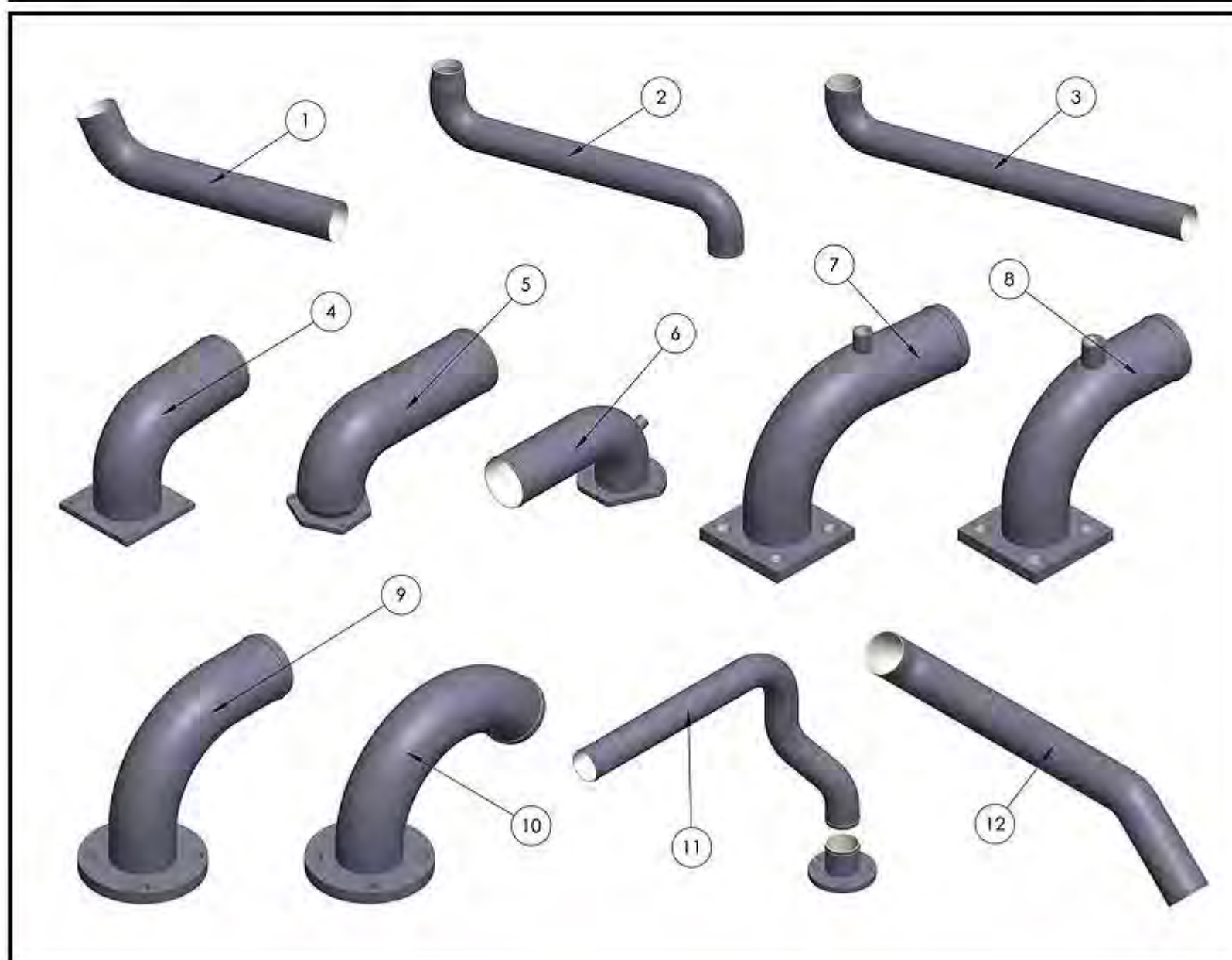
KOMATSU 830E DETROIT DIESEL 12V 4000 COOLANT KIT

LABEL#	PART#	DESCRIPTION	QTY
1	830412-CSLRO	5" LOWER RAD OUTLET	1
2	830412-CSWPO	4" WATER PUMP OUTLET	1
3	830412-CSWPI	5" WATER PUMP INLET	1
4	830412-CSLII	LOWER INTERCOOLER INLET	1
5	830412-CSIO	INTERCOOLER OUTLET	1
6	830412-CSIPO	INTERCOOLER PUMP OUTLET	1
7	830412-CSIPI	INTERCOOLER PUMP INLET	1
8	830412-08	UPPER RAD PIPE	1
9	830412-09	INTERCOOLER INTERMEDIATE PIPE	1
10	830412-10	RAD PIPE	1
11	830412-11	RAD PIPE	1
12	830412-12	RAD PIPE	1
13	830412-13	RAD PIPE	2



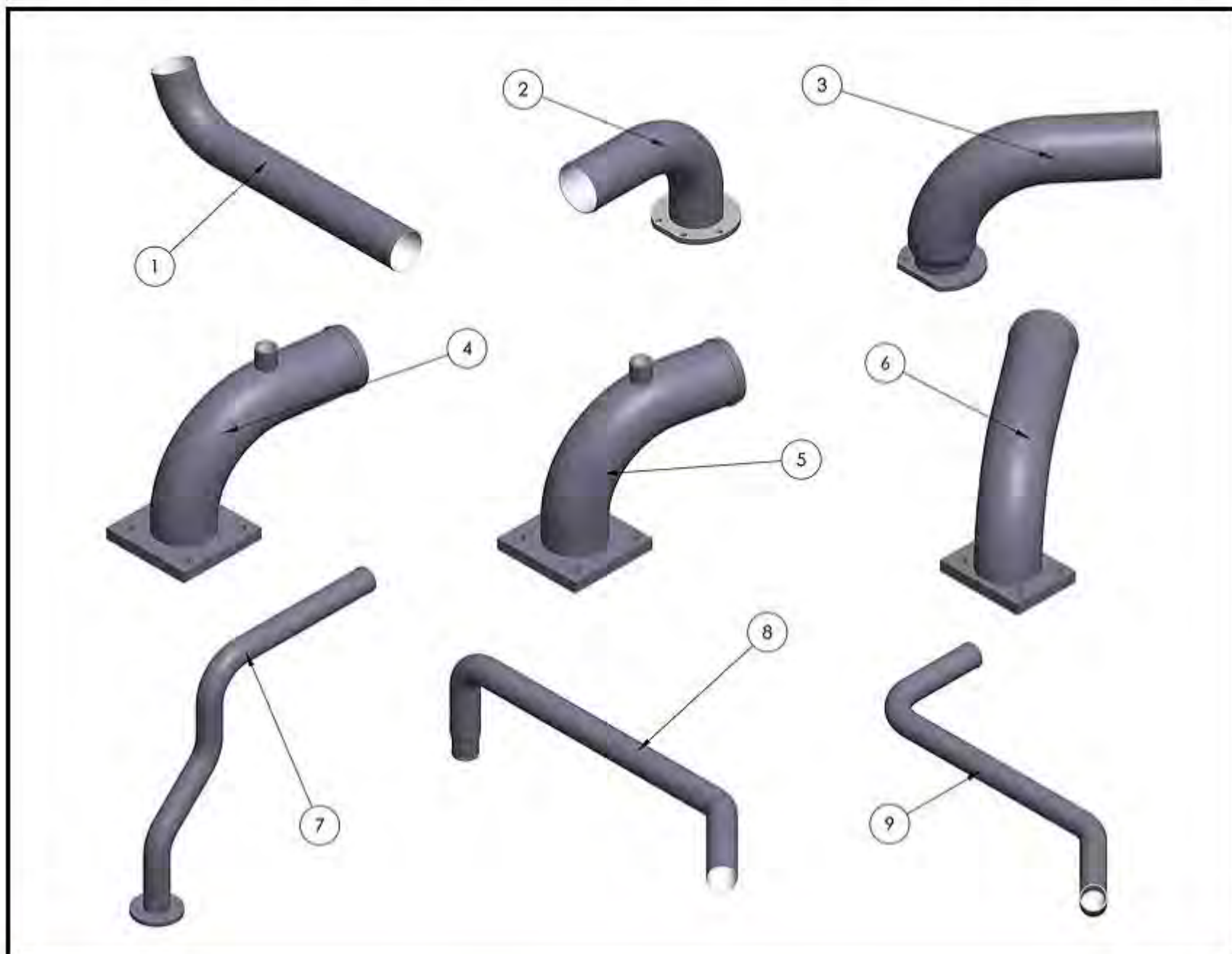
KOMATSU 830E DETROIT DIESEL 12V 4000 TIER TWO COOLANT KIT

LABEL#	PART#	DESCRIPTION	QTY
1	T2C830-01	5" SUCTION PIPE	1
2	T2C830-02	4" TO 3.5" UPPER INLET PIPE	1
3	T2C830-03	4" UPPER RETURN PIPE	1
4	T2C830-04	5" LOWER SUCTION PIPE	1
5	T2C830-05	5" ENGINE SUCTION PIPE	1
6	T2C830-06	4" 90° ELBOW	1
7	T2C830-07	2.5" R-BOTTOM INTERCOOLER PIPE	1
8	T2C830-08	2.5" L-BOTTOM INTERCOOLER PIPE	1
9	T2C830-09	2.5" R INTERCOOLER ENGINE PIPE	1
10	T2C830-10	2.5" 135° ELBOW	1
11	T2C830-11	5" R-BOTTOM INTERCOOLER ENGINE	1
12	T2C830-12	2.5" RADIATOR INTAKE PIPE	1

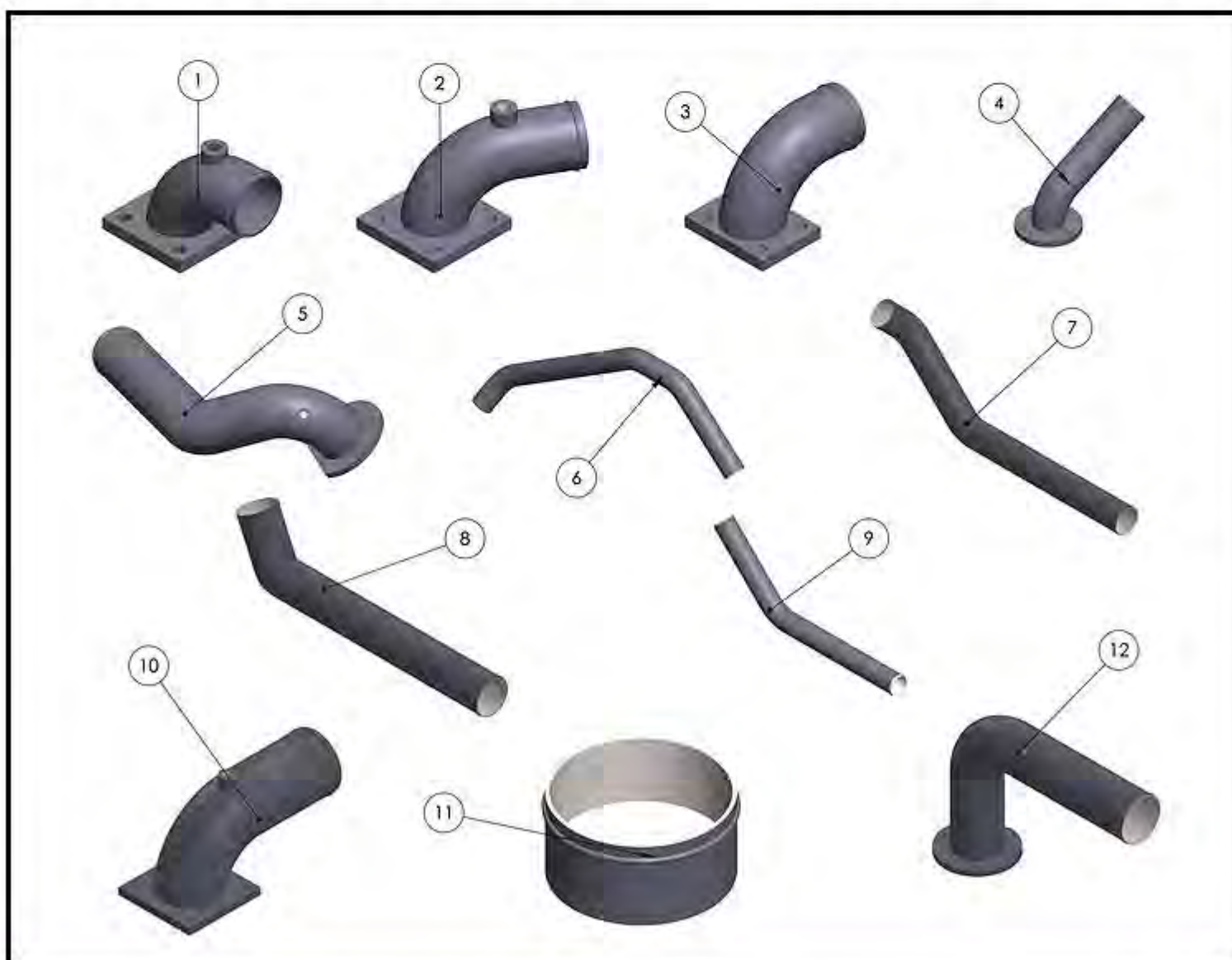


KOMATSU 830E DETROIT DIESEL 16V 4000 COOLANT KIT

LABEL#	PART#	DESCRIPTION	QTY
1	830416-CSLRO	5" LOWER RAD OUTLET	1
2	830416-CSWPO	4" WATER PUMP OUTLET	1
3	830416-CSWPI	5" WATER PUMP INLET	1
4	830416-CSLII	LOWER INTERCOOLER INLET	1
5	830416-CSIO	INTERCOOLER OUTLET	1
6	830416-CSIPO	INTERCOOLER PUMP OUTLET	1
7	830416-CSIPI	INTERCOOLER PUMP INLET	1
8	830416-CSURP	UPPER RAD PIPE	1
9	830416-CIIP	INTERCOOLER INTERMEDIATE PIPE	1



LABEL#	PART#	DESCRIPTION	QTY
1	IPS164-01	2.5" BOTTOM RIGHT RAD PIPE	1
2	IPS164-02	2.5" LEFT INTERCOOLER PIPE	1
3	IPS164-03	2.5" 90° FLANGED PIPE	1
4	IPS164-04	2.5" 52° FLANGED PIPE	1
5	IPS164-05	4" ENGINE OUTLET PIPE	1
6	IPS164-06	2.5" COOLANT PIPE	1
7	IPS164-07	4" RAD INLET PIPE	1
8	IPS164-08	4" 66° COOLANT PIPE	1
9	IPS164-09	2.5" 45° COOLANT PIPE	1
10	IPS164-10	4" 90° FLANGED COOLANT PIPE	1
11	IPS164-11	3.5" CAP PLUG	1
12	IPS164-12	4" 90° FLANGED COOLANT PIPE	1

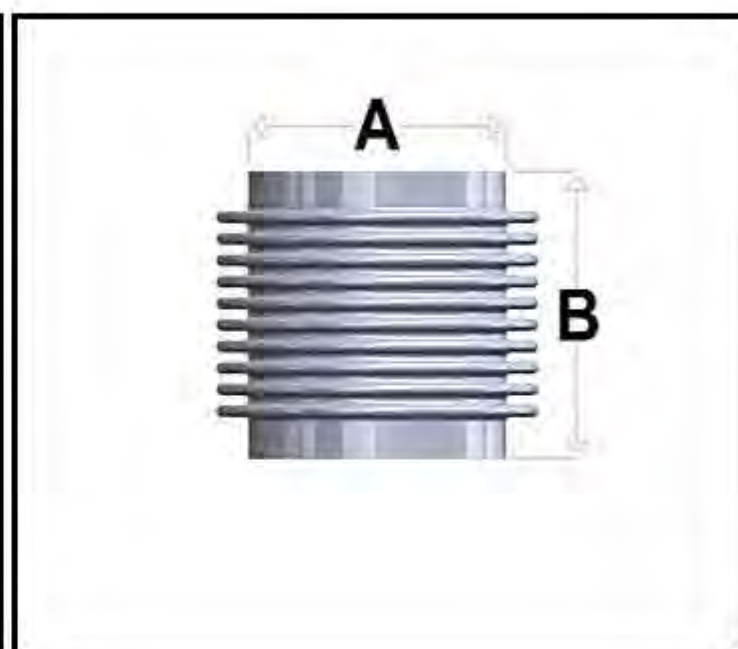


BELLOWS

OUR STAINLESS STEEL BELLOWS ARE FORMED IN SERIES TO ABSORB THERMAL MOVEMENT AND VIBRATION IN PIPING SYSTEMS THAT TRANSPORT HIGH TEMPERATURE MEDIA SUCH AS EXHAUST GASES OR STEAM

STAINLESS STEEL MULTI-PLY EXPANSION JOINT

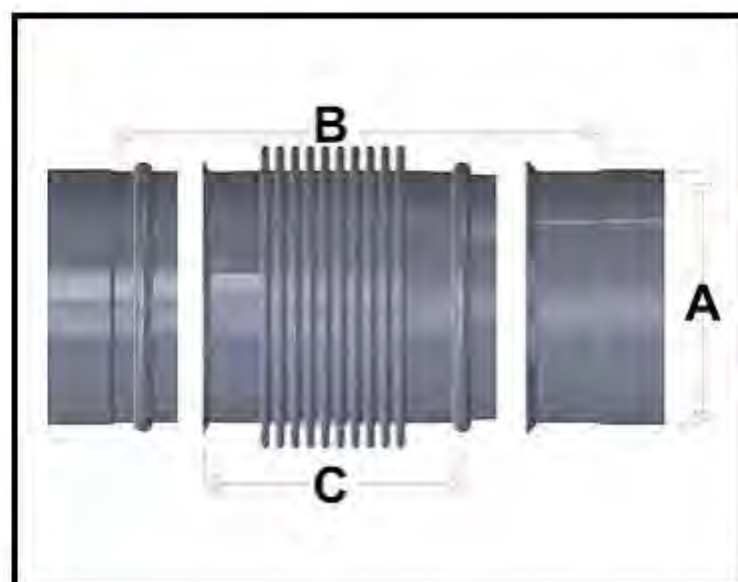
PART#	A ID	B LENGTH	C SHORT LIVE LENGTH	MULTI PLY
FB-3S	3"	5"	3"	2 PLY
FB-3.5S	3.5"	5"	3"	2 PLY
FB-4S	4"	5"	3"	2 PLY
FB-4.5S	4.5"	5"	3"	2 PLY
FB-5S	5"	5"	3"	2 PLY
FB-6S	6"	5"	3"	2 PLY
FB-8	8"	8"	6"	2 PLY
FB-10	10"	8"	6"	2 PLY
FB-12	12"	8"	6"	5 PLY



PART#	A ID	B LENGTH	C LONG LIVE LENGTH	PLY
FB-3L	3"	11"	9"	2 PLY
FB-3.5L	3.5"	11"	9"	2 PLY
FB-4L	4"	11"	9"	2 PLY
FB-4.5L	4.5"	11"	9"	2 PLY
FB-5L	5"	11"	9"	2 PLY
FB-6L	6"	11"	9"	2 PLY

BELLOWS CONNECTOR KIT

PART#	A ID	B LENGTH	C BELLOWS
2015083 3	3"	11"	7"
2015083 35	3.5"	11"	7"
2015083 4	4"	11"	7"
2015083 5	5"	11"	7"
2015083 6	6"	11"	7"
2015083 8	8"	14"	10"
2015083 10	10"	14"	10"
2015083 12	12"	14"	10"



INCLUDES BELLOW MALE & FEMALE CONNECTORS & 2 V-BAND CLAMPS

STAINLESS STEEL FLEX PIPE



PART#	ID	WALL THICKNESS
FLX300	3"	.024"
FLX350	3.5"	.024"
FLX400	4"	.024"
FLX450	4.5"	.024"
FLX500	5"	.024"
FLX600	6"	.024"
FLX800	8"	.024"
FLX1000	10"	.024"
FLX1200	12"	.024"

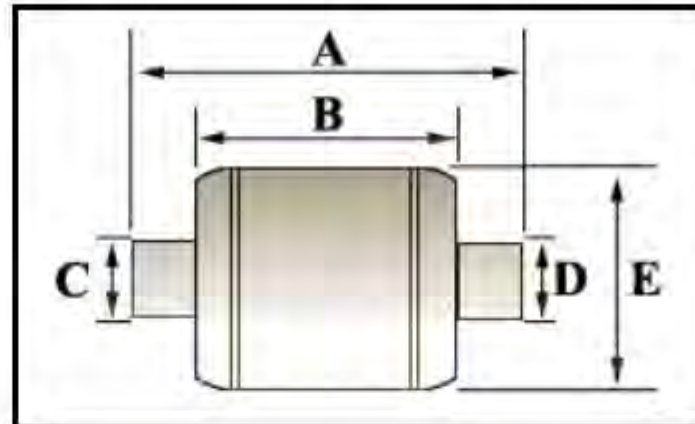
MUFFLERS

BTS STYLE MUFFLERS.....11-1

ANT STYLE MUFFLERS11-2

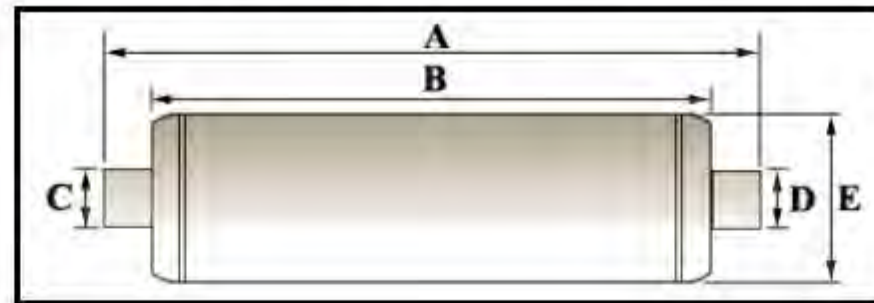
C SERIES STYLE MUFFLERS.....11-3

BTS STYLE MUFFLERS



PART#	A OVERALL	B BODY LENGTH	C ID	D OD	E DIA
BTS 0612 15	16.5"	12"	1.5"	1.5"	6"
BTS 0812 15	17"	12"	1.5"	1.5"	8"
BTS 0812 20	17"	12"	2"	2"	8"
BTS 0812 25	17"	12"	2.5"	2.5"	8"
BTS 1213 30	19"	13"	3"	3"	12"
BTS 1213 35	19"	13"	3.5"	3.5"	12"
BTS 1213 40	19"	13"	4"	4"	12"
BTS 1416 50	25"	16"	5"	5"	14"
BTS 1616 50	25"	16"	5"	5"	16"
BTS 1418 60	25"	18"	6"	6"	14"
BTS 1618 60	25"	18"	6"	6"	16"

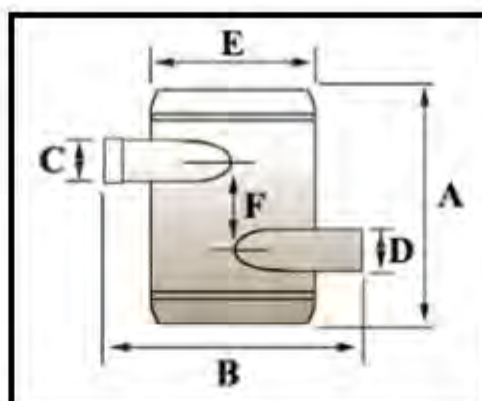
ANT STYLE MUFFLERS



**THESE ANT MUFFLERS ARE SPECIALLY DESIGNED
FOR TURBO OR NATURALLY ASPIRATED ENGINES**

PART#	A OVERALL	B BODY LENGTH	C ID	D OD	E DIA
ANT10936 30	42"	36"	3"	3"	9"
ANT11045 35	51"	45"	3.5"	3.5"	10"
ANT11045 40	51"	45"	4"	4"	10"
ANT11045 50	51"	45"	5"	5"	10"
ANT11045 60	51"	45"	6"	6"	10"
ANT11052 40	58"	52"	4"	4"	10"
ANT11245 40	51"	45"	4"	4"	12"
ANT11245 50	51"	45"	5"	5"	12"
ANT11245 60	51"	45"	6"	6"	12"
ANT11445 60	51"	45"	6"	6"	14"
ANT11452 60	58"	52"	6"	6"	14"

C SERIES STYLE MUFFLERS



PART#	A OVERALL	B BODY LENGTH	C ID	D OD	E DIA	F IN/OUT
C10250	13.75"	14.5"	2.5"	2.5"	10"	4.125"
C10300	13.75"	16"	3"	3"	10"	4.125"
C12300	16.5"	17.5"	3"	3"	12"	4.625"
C12350	16.5"	19.5"	3.5"	3.5"	12"	4.625"
C14350	19.75"	20"	3.5"	3.5"	12"	5.125"
C14400	19.75"	21"	4"	4"	14"	5.125"
C16400	22"	22"	4"	4"	16"	6.125"
C16500	22"	23.5"	5"	5"	16"	6.125"
C18500	24.75"	24"	5"	5"	18"	7.125"
C18600	24.75"	29"	6"	6"	18"	7.125"
C20500	27.5"	27"	5"	5"	20"	7.125"
C20600	27.5"	30"	6"	6"	20"	8"
C24600	33"	33"	6"	6"	24"	9.125"
C24800	33"	36"	8"	8"	24"	9.125"

EXHAUST ACCESSORIES

EXHAUST ELBOWS.....12-1

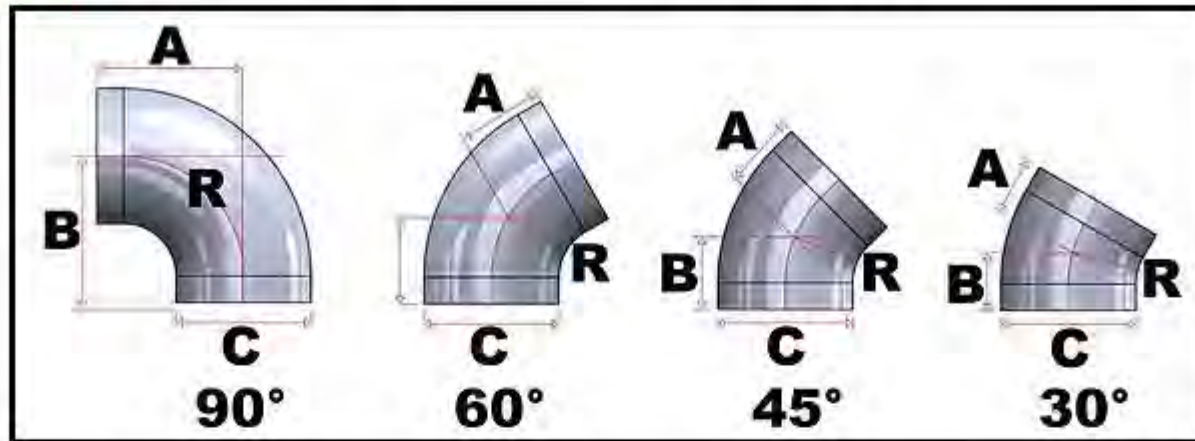
EXHAUST REDUCERS12-2

EXHAUST STACKS12-3

EXHAUST TUBING12-4

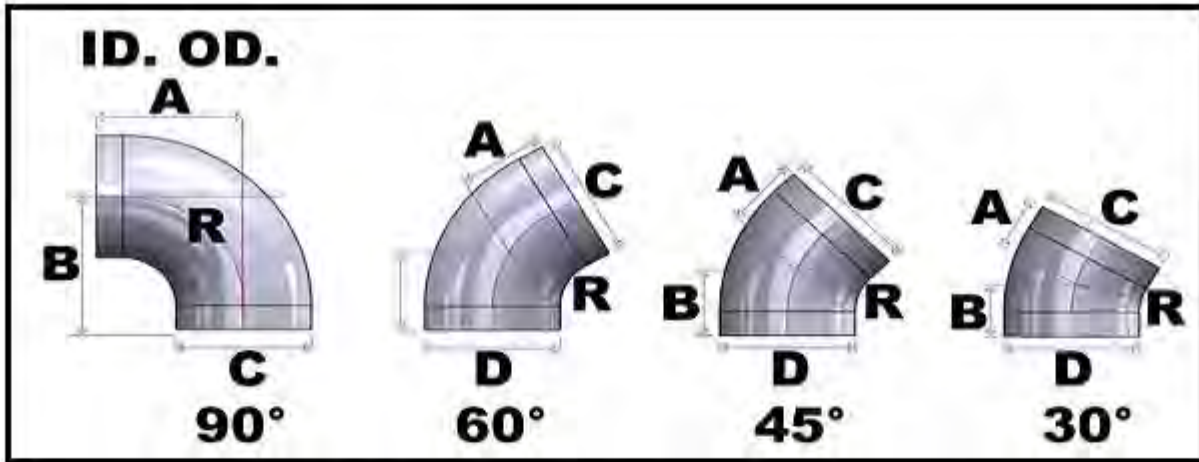
V-BAND CONNECTOR KITS12-5

EXHAUST ELBOWS



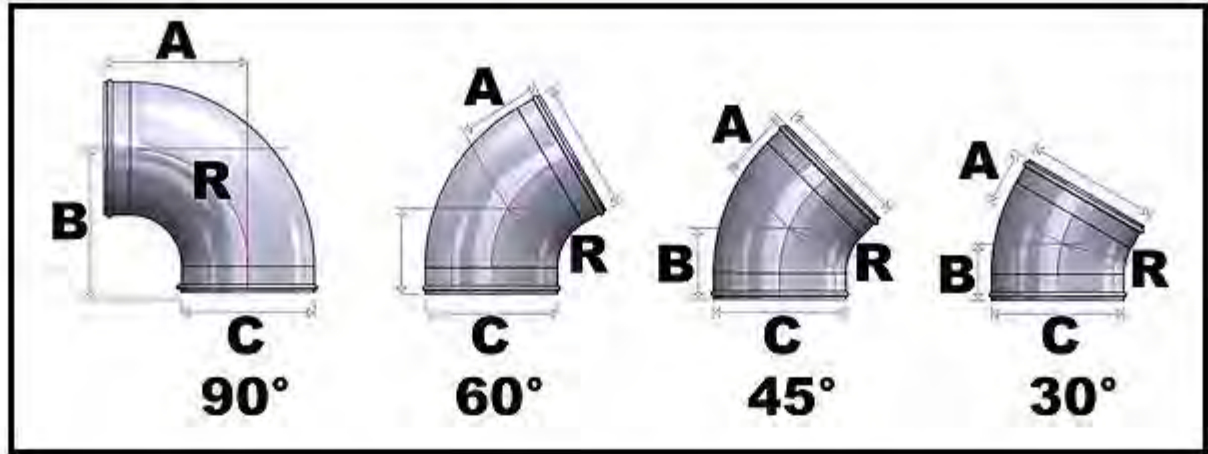
OD OD 90° 60° 45° & 30° ELBOWS

PART#	A LEG LENGTH	B LEG LENGTH	C DIA	R RADIUS
ELX90 8	13"	13"	8"	9"
ELX90 10	13"	13"	10"	9"
ELX90 12	13"	13"	12"	9"
ELX60 8	9.25"	9.25"	8"	9"
ELX60 10	9.25"	9.25"	10"	9"
ELX60 12	9.25"	9.25"	12"	9"
ELX45 8	7.75"	7.75"	8"	9"
ELX45 10	7.75"	7.75"	10"	9"
ELX45 12	7.75"	7.75"	12"	9"
ELX30 8	6.5"	6.5"	8"	9"
ELX30 10	6.5"	6.5"	10"	9"
ELX30 12	6.5"	6.5"	12"	9"



ID OD 90° 60° 45° & 30° ELBOWS

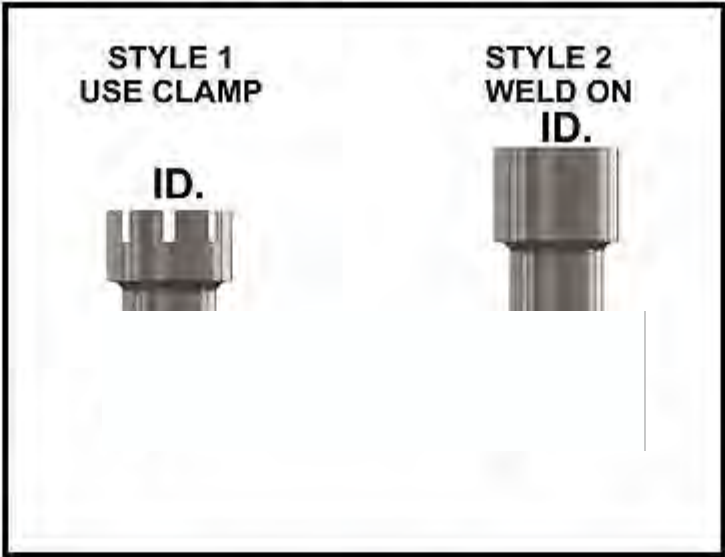
PART#	A LEG LENGTH	B LEG LENGTH	C DIA	R RADIUS
ELXI90 8	13"	13"	8"	9"
ELXI90 10	13"	13"	10"	9"
ELXI90 12	13"	13"	12"	9"
ELXI60 8	9.25"	9.25"	8"	9"
ELXI60 10	9.25"	9.25"	10"	9"
ELXI60 12	9.25"	9.25"	12"	9"
ELXI45 8	7.75"	7.75"	8"	9"
ELXI45 10	7.75"	7.75"	10"	9"
ELXI45 12	7 3/4"	7 3/4"	12"	9"
ELXI30 8	6.5"	6.5"	8"	9"
ELXI30 10	6.5"	6.5"	10"	9"
ELXI30 12	6.5"	6.5"	12"	9"



V-BAND 90° 60° 45° & 30° ELBOWS

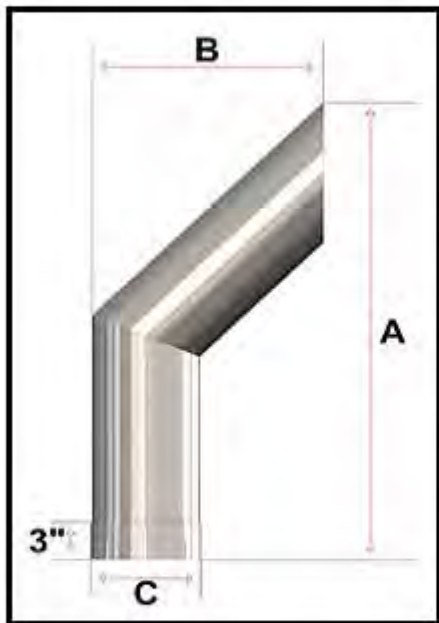
PART#	A LEG LENGTH	B LEG LENGTH	C DIA	R RADIUS
ELXV90 8	10"	10"	8"	9"
ELXV90 10	10"	10"	10"	9"
ELXV90 12	10"	10"	12"	9"
ELXV60 8	6.25"	6.25"	8"	9"
ELXV60 10	6.25"	6.25"	10"	9"
ELXV60 12	6.25"	6.25"	12"	9"
ELXV45 8	4.75"	4.75"	8"	9"
ELXV45 10	4.75"	4.75"	10"	9"
ELXV45 12	4.75"	4.75"	12"	9"
ELXV30 8	3.5"	3.5"	8"	9"
ELXV30 10	3.5"	3.5"	10"	9"
ELXV30 12	3.5"	3.5"	12"	9"

EXHAUST REDUCERS



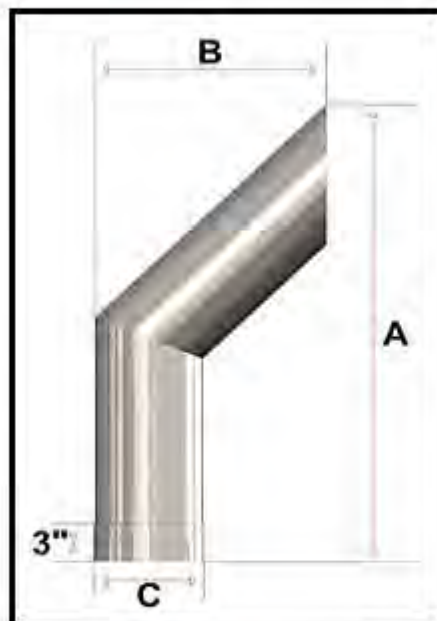
PART#	OD	ID	STYLE	STYLE
			1	2
303RD	3"	3"	1	2
318RD	3"	3.125"	1	2
314RD	3"	3.25"	1	2
312RD	3"	3.5"	1	2
304RD	3"	4"	1	2
404RD	4"	4"	1	2
412RD	4"	4.5"	1	2
405RD	4"	5"	1	2
505RD	5"	5"	1	2
518RD	5"	5.125"	1	2
512RD	5"	5.5"	1	2
506RD	5"	6"	1	2
606RD	6"	6"	1	2
612RD	6"	6.5"	0	2
607RD	6"	7"	0	2
707RD	7"	7"	0	2
708RD	7"	8"	0	2
808RD	8"	8"	0	2
858RD	8"	8.625"	0	2
809RD	8"	9"	0	2
8010RD	8"	10"	0	2
9010RD	9"	10"	0	2
1010RD	10"	10"	0	2
1011RD	10"	11"	0	2
10115RD	10"	11.625"	0	2
1012RD	10"	12"	0	2

EXHAUST STACK 2"



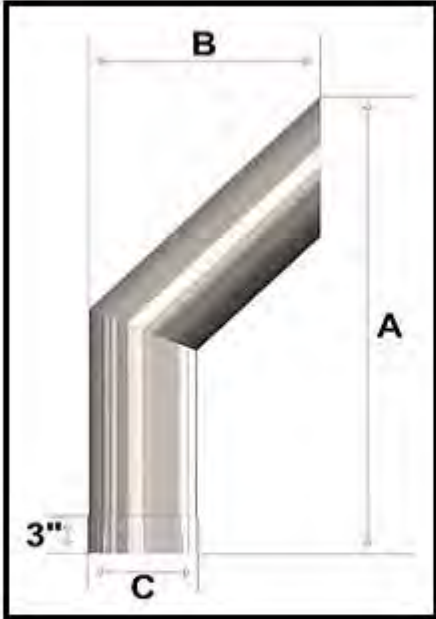
PART#	A	B	C
	HEIGHT	WIDTH	ID
SK21410	14"	10"	2"
SK21810	18"	10"	2"
SK22410	24"	10"	2"
SK23010	30"	10"	2"
SK23610	36"	10"	2"
SK24210	42"	10"	2"
SK24810	48"	10"	2"

EXHAUST STACK 2.5"



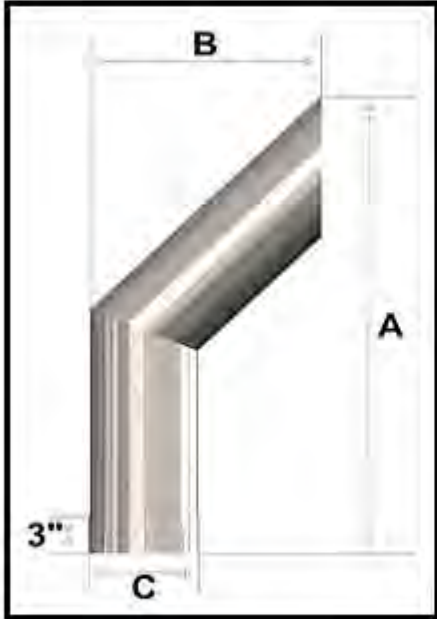
PART#	A HEIGHT	B WIDTH	C ID
SK251410	14"	10"	2.5"
SK251810	18"	10"	2.5"
SK252410	24"	10"	2.5"
SK253010	30"	10"	2.5"
SK253610	36"	10"	2.5"
SK254210	42"	10"	2.5"
SK254810	48"	10"	2.5"

EXHAUST STACK 3"



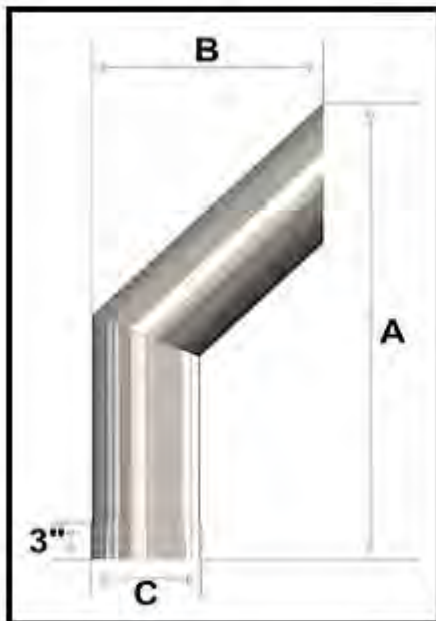
PART#	A	B	C
	HEIGHT	WIDTH	ID
SK31410	14"	10"	3"
SK31610	16"	10"	3"
SK31810	18"	10"	3"
SK32410	24"	10"	3"
SK33010	30"	10"	3"
SK33610	36"	10"	3"
SK34210	42"	10"	3"
SK34210	48"	10"	3"

EXHAUST STACK 3.5"



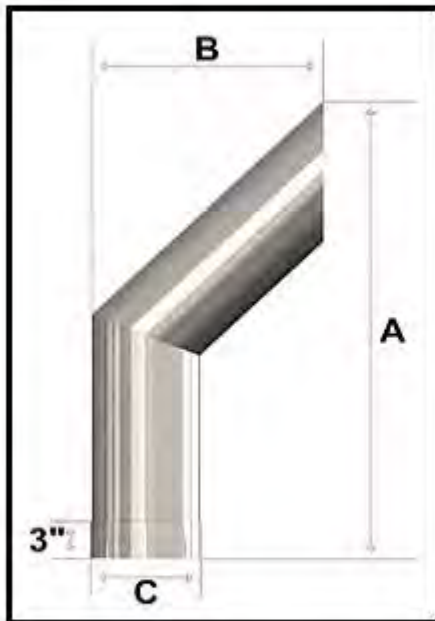
PART#	A HEIGHT	B WIDTH	C ID
SK351410	14"	10"	3.5"
SK351610	16"	10"	3.5"
SK351810	18"	10"	3.5"
SK352410	24"	10"	3.5"
SK353010	30"	10"	3.5"
SK353610	36"	10"	3.5"
SK354210	42"	10"	3.5"
SK354810	48"	10"	3.5"

EXHAUST STACK 4"



PART#	A HEIGHT	B WIDTH	C ID
SK4168	16"	8.5"	4"
SK4208	20"	8.5"	4"
SK4248	24"	8.5"	4"
SK4308	30"	8.5"	4"
SK4368	36"	8.5"	4"
SK4428	42"	8.5"	4"
SK4488	48"	8.5"	4"

EXHAUST STACK 5"



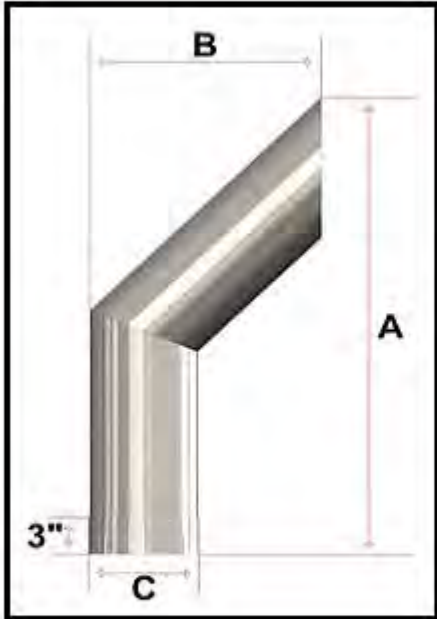
PART#	A HEIGHT	B WIDTH	C ID
SK51810	18"	10"	5"
SK52410	24"	10"	5"
SK53010	30"	10"	5"
SK53610	36"	10"	5"
SK54210	42"	10"	5"
SK54810	48"	10"	5"

EXHAUST STACK 6"



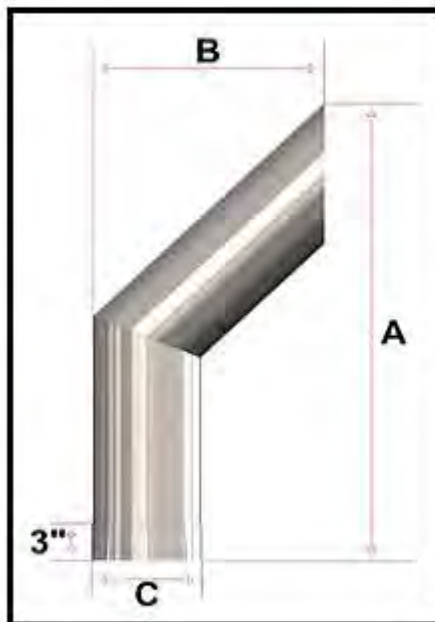
PART#	A HEIGHT	B WIDTH	C ID
SK61811	18"	11.5"	6"
SK62411	24"	11.5"	6"
SK63011	30"	11.5"	6"
SK63611	36"	11.5"	6"
SK64211	42"	11.5"	6"
SK64811	48"	11.5"	6"

EXHAUST STACK 7"



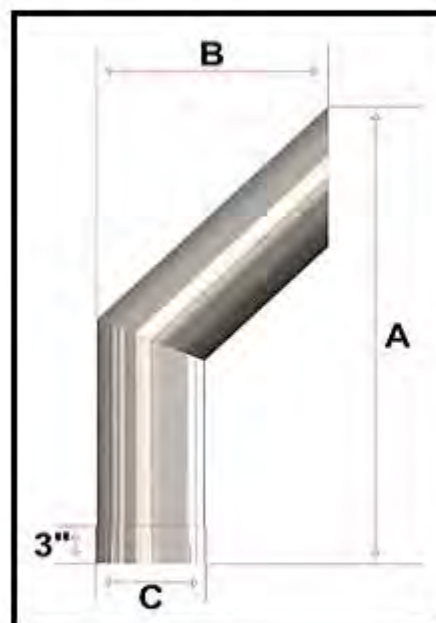
PART#	A	B	C
	HEIGHT	WIDTH	ID
SK72214	22"	14"	7"
SK72610	26"	14"	7"
SK73014	30"	14"	7"
SK73614	36"	14"	7"
SK74214	42"	14"	7"
SK74814	48"	14"	7"

EXHAUST STACK 8"



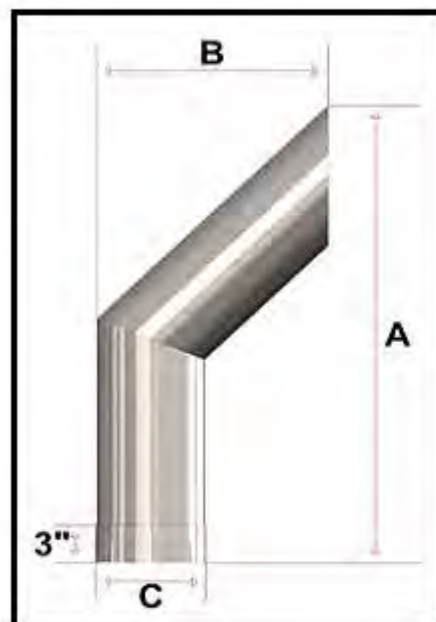
PART#	A	B	C
	HEIGHT	WIDTH	ID
SK82516	25"	16"	8"
SK83016	30"	16"	8"
SK83616	36"	16"	8"
SK84216	42"	16"	8"
SK84816	48"	16"	8"

EXHAUST STACK 10"



PART#	A	B	C
	HEIGHT	WIDTH	ID
SK102822	28"	22"	10"
SK103622	36"	22"	10"
SK104222	42"	22"	10"
SK104822	48"	22"	10"

EXHAUST STACK 12"



PART#	A	B	C
	HEIGHT	WIDTH	ID
SK123226	32"	26"	12"
SK123626	36"	26"	12"
SK124226	42"	26"	12"
SK124826	48"	26"	12"

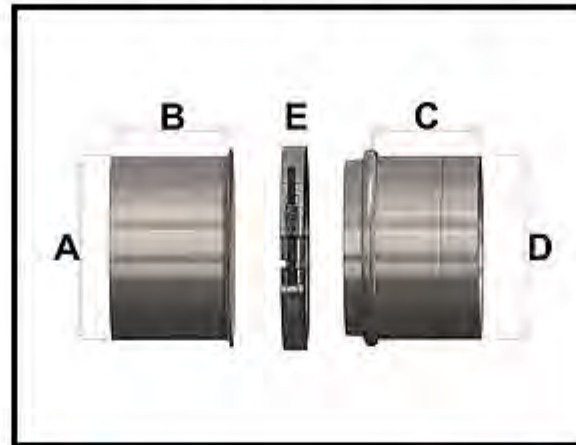
ALUMINIZED EXHAUST TUBING



PART#	OD	GAUGE
EXT400	4"	14
EXT500	5"	14
EXT600	6"	14
EXT700	7"	14
EXT800	8"	14
EXT1000	10"	14
EXT1200	12"	14

NOTE: PIPE FROM 4" OD TO 7" OD COMES IN LENGTHS OF UP TO 10/LFT
PIPE FROM 8" OD TO 12" OD COMES IN LENGTHS OF UP TO 20/LFT

V-BAND CONNECTOR KITS

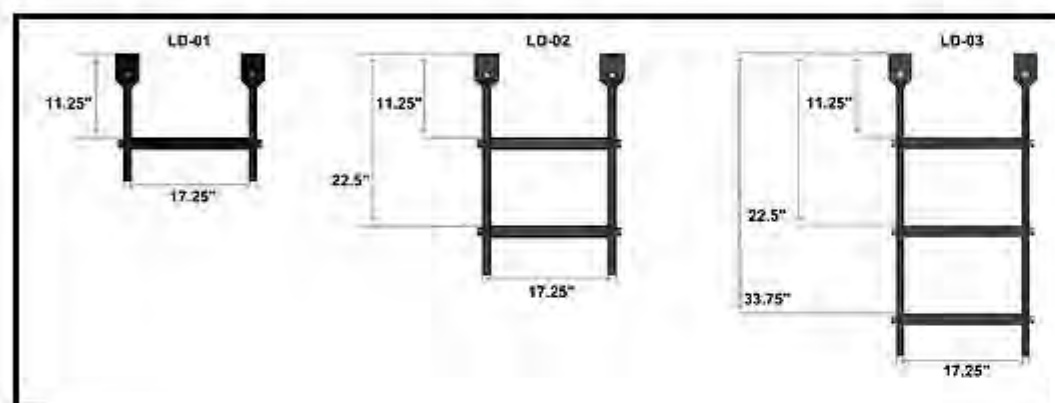


PART#	A OD	B LENGTH	PART#	C LENGTH	D OD	E V-BAND CLAMP
CNKF30	3"	5"	CNKM30	5"	3"	VB30
CNKF35	3.5"	5"	CNKM35	5"	3.5"	VB35
CNKF40	4"	5"	CNKM40	5"	4"	VB40
CNKF50	5"	5"	CNKM50	5"	5"	VB50
CNKF60	6"	5"	CNKM60	5"	6"	VB60
CNKF80	8"	5"	CNKM80	5"	8"	VB80
CNKF10	10"	5"	CNKM10	5"	10"	VB100
CNKF12	12"	5"	CNKM12	5"	12"	VB120

UNIVERSAL REINFORCED BELTED RUBBER LADDERS

CUSTOM REINFORCED BELTED RUBBER LADDERS DESIGNED AND MADE IN OUR SHOP TO WITHSTAND THE HARSH DEMANDS OF THE JOB SITE AND THE ELEMENTS. OUR INITIAL-STEP LADDERS ARE STRONG AND FLEXIBLE AND ARE BUILT TO HANDLE A TREMENDOUS AMOUNT OF ABUSE AND INJURY.

IN ADDITION TO OUR COMPLETE INITIAL-STEP LADDERS WE ALSO CARRY AND PROVIDE REPLACEMENT PARTS FOR OUR LADDERS SHOULD YOU FIND YOURSELF NEEDING TO REPAIR ALL OR PART OF ONE OF OUR LADDERS.



PART#	LADDER KIT
LD 01	ONE STEP LADDER KIT
LD 02	TWO STEP LADDER KIT
LD 03	THREE STEP LADDER KIT
LD 04	FOUR STEP LADDER KIT



PART#	LADDER KIT
LH B	LADDER HANGER BRACKET
LD T	LADDER TREAD C/W 4 BOLT TWO SIDE PLATES
LD S1	LADDER SIDE - ONE STEP
LD S2	LADDER SIDE - TWO STEP
LD S3	LADDER SIDE - THREE STEP
LD S4	LADDER SIDE - FOUR STEP

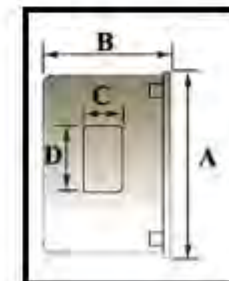
POLYETHYLENE WHEEL MOTOR COVERS

THESE STRONG, FLEXIBLE, DURABLE, AND LIGHTWEIGHT, WHEEL MOTOR COVERS WILL KEEP THE WEIGHT DOWN ON YOUR VEHICLES, WHILE PROTECTING THE VULNERABLE AREAS FROM HARM.

THE WHEEL MOTOR COVERS ARE MADE TO WITHSTAND MORE THAN ONE DIRECT IMPACT WITH LITTLE OR NO DAMAGE TO IT OR THE WHEEL MOTOR IT PROTECTS, WHICH KEEPS REPAIR COSTS FROM BEING PROHIBITIVE.



PART#	A	B	C	D
788-BL	38.5"	19"	8.75"	15.25"
510-BL	31.25"	16"	4.625"	10"



<u>STAINLESS STEEL FLEX PIPE</u>	15-1
<u>ALUMINIZED STRAIGHT TUBING</u>	15-2
<u>STAINLESS STEEL FLAT BAND (LAP/BUTT)CLAMPS</u>	15-3
<u>HD U-BOLT CLAMPS</u>	15-4
<u>FLEX WEAVE TAPE</u>	15-5
<u>GASKET MATERIAL</u>	15-6

STAINLESS STEEL FLEX PIPE

ALL PRICES ARE USD

PART#	DESCRIPTION	A I.D	B THICKNESS	
FLX200	2" ID SS FLEX PIPE	2"	0.18"	
FLX225	2.25" ID SS FLEX PIPE	2.25"	0.18"	
FLX250	2.5" ID SS FLEX PIPE	2.5"	0.18"	
FLX300	3" ID SS FLEX PIPE	3"	0.18"	
FLX350	3.5" ID SS FLEX PIPE	3.5"	0.18"	
FLX400	4" ID SS FLEX PIPE	4"	0.18"	
FLX450	4.5" ID SS FLEX PIPE	4.5"	0.18"	
FLX500	5" ID SS FLEX PIPE	5"	0.18"	
FLX600	6" ID SS FLEX PIPE	6"	0.18"	
FLX800	8" ID SS FLEX PIPE	8"	0.18"	
FLX1000	10" ID SS FLEX PIPE	10"	0.18"	
FLX1200	12" ID SS FLEX PIPE	12"	0.18"	
SHEET METAL	4'x12' 46 SQ FT 12 GAUGE SHEET METAL	46 Sq Ft		

ALUMINIZED STRAIGHT TUBING

PRICE PER LINEAR FOOT

ALL PRICES ARE USD

PART#	DISCRIPTION	O.D	GAUGE	
EXT200	2" OD EXHAUST TUBING	2"	14	
EXT225	2.25" OD EXHAUST TUBING	2.25"	14	
EXT250	2.5" OD EXHAUST TUBING	2.25"	14	
EXT300	3" OD EXHAUST TUBING	3"	14	
EXT350	3.5" OD EXHAUST TUBING	3.5"	14	
EXT400	4" OD EXHAUST TUBING	4"	14	
EXT500	5" OD EXHAUST TUBING	5"	14	
EXT600	6" OD EXHAUST TUBING	6"	14	
EXT700	7" OD BLK STEEL EXHAUST TUBING	7"	14	
EXT800	8" OD EXHAUST TUBING	8"	14	
EXT1000	10" OD EXHAUST TUBING	10"	14	
EXT1200	12" OD EXHAUST TUBING	12"	14	

STAINLESS STEEL FLAT BAND (LAP/BUTT) CLAMPS

ALL PRICES ARE USD

PART#	DESCRIPTION	
FBC200	2" SS FLAT BAND CLAMP	
FBC225	2.25" SS FLAT BAND CLAMP	
FBC250	2.5" SS FLAT BAND CLAMP	
FBC300	3" SS FLAT BAND CLAMP	
FBC350	3.25" SS FLAT BAND CLAMP	
FBC400	4" SS FLAT BAND CLAMP	
FBC450	4.25" SS FLAT BAND CLAMP	
FBC500	5" SS FLAT BAND CLAMP	
FBC600	6" SS FLAT BAND CLAMP	
FBC800	8" SS FLAT BAND CLAMP	
FBC1000	10" SS FLAT BAND CLAMP	

HD U-BOLTS CLAMPS

ALL PRICES ARE USD

PART#	DESCRIPTION	
	EXHAUST CLAMPS	
90929K	2" HD U-BOLT CLAMP	
90915K	2.25" HD U-BOLT CLAMP	
89556K	3" HD U-BOLT CLAMP	
89557K	3.25" HD U-BOLT CLAMP	
89558K	4" HD U-BOLT CLAMP	
89559K	5" HD U-BOLT CLAMP	
89560K	6" HD U-BOLT CLAMP	

FLEX WEAVE TAPE

ALL PRICES ARE USD

FLEX WEAVE TAPE	SIZE		
2" FLEX WEAVE TAPE	2" HD U-BOLT CLAMP		100'ROLL
3" FLEX WEAVE TAPE	2.25" HD U-BOLT CLAMP		100'ROLL

GASKET MATERIAL

ALL PRICES ARE USD

GASKET MATERIAL	SIZE	
GASKET MATERIAL	HEIGHT x LENGTH	