



MP-ECS-23

S/N EC1006 & Up

Crack Sealer

ECS-250 & ECS-400

Repair Parts



E.D. ETNYRE & CO. 1333 S. Daysville Road, Oregon, Illinois 61061

Phone: 815-732-2116 or 800-995-2116

www.etnyre.com

PARTS/SERVICE: 888-586-1899

CustomerService@etnyre.com

MP-ECS-23

ECS-250 & ECS-400 Crack Sealer

HOW TO ORDER PARTS

To assure prompt delivery when ordering parts, please furnish the following information: 1) Complete name and address of consignee. 2) Method of shipment preferred. 3) Serial numbers of units to which parts apply. 4) Complete part numbers and descriptions. 5) Any special instructions.

Specify unit serial number when ordering parts!

PARTS WARRANTY

E. D. Etnyre & Co. warrants to the original Purchaser, its replacement parts to be free from defects in material and workmanship for a period of twelve (12) months after date of delivery to original Purchaser.

The following are exceptions to this policy:

- (1) All new electronic components are warranted for a period of 60 days. This is subject to vendor approval.
- (2) Remanufactured electronic components are warranted for a period of 30 days.
- (3) Remanufactured hydraulic components are warranted for a period of 60 days.
- (4) All non-Etnyre manufactured components are subject to the original warranty of the manufacturer.
- (5) New hydraulic components are warranted for the period of time set forth by the vendor of the individual item.

The obligation of the Company is limited to repairing or replacing any defective part returned to the Company and will not be responsible for consequential damages or any further loss by reason of such defect. Furthermore, the Etnyre Co. will not be responsible for any labor charges, freight charges, or transportation costs incurred by the purchaser if said part were to fail.

This warranty does not apply to:

- (1) Normal start-up services, normal maintenance services or adjustments usually performed by the selling dealer, factory service representative or customer personnel.
- (2) Any product manufactured by E. D. Etnyre & Co. purchased or subjected to rental use.
- (3) Any product or part thereof which shows improper operation, improper maintenance, abuse, neglect, damage or modification after shipment from factory.
- (4) Any product or part thereof damaged or lost in shipment. Inspection for damage should be made before acceptance or signing any delivery documents releasing responsibility of the delivering carrier.

This warranty and foregoing obligations are in lieu of all other obligations and liabilities including negligence and all warranties of merchantability or otherwise, express or implied in fact or by law.

The company excludes all implied warranties of merchantability and fitness for a particular purpose. There are no warranties, express or implied, which extend beyond the description of the goods contained in this contract.



E. D. ETNYRE & CO., Oregon, Illinois 61061-9778

1333 South Daysville Road Phone: 888-586-1899 Fax: 800-521-1107

www.etnyre.com CustomerService@etnyre.com

Reporting Safety Defects

If you believe that your vehicle has a defect which could cause a crash, injury, or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying E.D. Etnyre & Co.

If NHTSA receives similar complaints, it may open an investigation. If it finds a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or E.D. Etnyre & Co.

To contact NHTSA, you may call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in the Washington, D.C. area). Or, you may write to: U.S. Department of Transportation, Washington, D.C. 20696. You may also obtain other information about motor vehicle safety from the Auto Safety Hotline.

E.D. Etnyre & Co., Oregon, Illinois 61061, Phone Area Code 815/732-2116, Cable Address "EDECO". CALIFORNIA



CAUTION

Before breaking the seal on all hydraulic fittings, fill caps, etc. be sure to clean around the connection. Failure to do so may cause contaminants to enter the hydraulic system causing damage to pumps, motors, etc.



WARNING

Fluoroelastomer handling

Some "O" rings and seals used in this vehicle are made from fluoroelastomers. When used under design conditions, fluoroelastomers do not require special handling. However, when fluoroelastomers are heated to temperatures beyond their design temperature (around 600 degrees Fahrenheit), decomposition may occur with the formation of hydrofluoric acid. Hydrofluoric acid can be extremely corrosive to human tissue if not handled properly.

A degraded seal may appear as a charred or black sticky mass. Do not touch either the seal or the surrounding equipment without wearing neoprene or PVC gloves if degradation is suspected. Wash parts and equipment with 10% lime water (calcium hydroxide solution) to neutralize any hydrofluoric acid.

If contact with the skin occurs, wash the affected areas immediately with water. Then rub a 2.5 calcium gluconate gel into the skin until there is no further irritation, while seeking prompt medical attention.

Note to physicians: For advice or treatment of HF Burns, call the DuPont Medical Emergency Number 1-800-441-3637.



WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to: www.P65Warnings.ca.gov

6322159

Please note this warning and remember -

Always start and operate the engine in a well-ventilated area;

If in an enclosed area, vent the exhaust to the outside;

Do not modify or tamper with the exhaust system.

CRACK SEALER 250

General Identification.....	Page 1
Crack Sealer 250.....	Page 2
Electric Heated Hose Ready Option.....	Page 3
Connector Box for Heated Hose - 250/400.....	Page 4
Generator Asm - 250/400.....	Page 5
VIEW A	Page 6

VIEW B	Page 7
VIEW 1.....	Page 8
Tank Hyd. Cyclone - 250/400.....	Page 9
Cooler Assembly - 250/400.....	Page 10
VIEW 2.....	Page 11

VIEW C	Page 12
Spare Tire Option - 250/400.....	Page 13

VIEW D	Page 14
AS - H.O. Pressure Switch - 250/400.....	Page 15
Dual Wand Option - 250/400.....	Page 16
Handwand Tips Option - 250/400.....	Page 17
Application Hoses - 250/400.....	Page 18

VIEW E	Page 19
Burner Asm - 250/400.....	Page 20
New Bucket Pour Spout - 250/400.....	Page 21

VIEW F	Page 22
Heater w/ Pigtail and Voltage Reg. - 250/400.....	Page 23
Heater with Pigtail 120Volt.....	Page 24
Heater with Pigtail 240Volt.....	Page 25

VIEW G	Page 26
Adapter Kit 250/400.....	Page 27

TANK

Tank on Frame Asm.....	Page 28
VIEW A.....	Page 29
Trailer Hitch (OPTIONAL).....	Page 30
VIEW B.....	Page 31
Hose Box Cover - 250/400 (OPTIONAL).....	Page 32
Diesel Tank Asm - 250 Gal.....	Page 33

TANK WELDMENT

Tank Weldment - 250 Gal.....	Page 34
VIEW A.....	Page 35
VIEW B.....	Page 36
Hot Oil Pump & Motor Asm Omg.....	Page 37
VIEW C.....	Page 38
Tank Wdmt & Rear Piping Asm CS250.....	Page 39
VIEW A.....	Page 40
VIEW B.....	Page 41
Product Strainer Asm - 250/400.....	Page 42

CRACK SEALER 400

General Identification.....	Page 43
Crack Sealer 400.....	Page 44
Electric Heated Hose Ready Option.....	Page 45
Connector Box for Heated Hose - 250/400.....	Page 4
Generator Asm - 250/400.....	Page 5

VIEW A	Page 46
Junction Box 7 Pole.....	Page 47

VIEW B	Page 48
---------------------	---------

VIEW C	Page 49
Spare Tire Option - 250/400.....	Page 13

VIEW D	Page 50
---------------------	---------

Dual Wand Option - 250/400.....	Page 16
Handwand Tips Option - 250/400.....	Page 17
Application Hoses - 250/400.....	Page 18

VIEW E	Page 51
Burner Asm - 250/400.....	Page 20
New Bucket Pour Spout - 250/400.....	Page 21

VIEW F	Page 52
AS - H.O. Pressure Switch - 250/400.....	Page 15

VIEW G	Page 53
Heater w/ Pigtail and Voltage Reg. - 250/400.....	Page 23
Heater with Pigtail 120Volt.....	Page 24
Heater with Pigtail 240Volt.....	Page 25

VIEW H	Page 54
---------------------	---------

Adapter Kit 250/400.....	Page 27
VIEW J	Page 55

VIEW 1.....	Page 56
Tank Hyd. Cyclone - 250/400.....	Page 9
Cooler Assembly - 250/400.....	Page 10
VIEW 2.....	Page 57

TANK

Tank on Frame Asm.....	Page 58
VIEW A.....	Page 59
VIEW B.....	Page 60
Diesel Tank Asm - 400 Gal.....	Page 61

TANK WELDMENT

Tank Weldment - 400 Gal.....	Page 62
VIEW A.....	Page 63
VIEW B.....	Page 64
VIEW C.....	Page 65
Tank Wdmt & Rear Piping Asm CS250.....	Page 66
VIEW A.....	Page 67
VIEW B.....	Page 68

CONTROLS

Hot Oil Expansion Tank - 250/400.....	Page 69
Tank Valve Actuator Asm - 250/400.....	Page 70
Valve Asm w/ Manifold - 12V SAE	Page 71
Valve Asm w/ Manifold - HIC.....	Page 72

CONTROLS & ENGINE PACKAGE - 250/400

*Isuzu Engine Option Package.....*Page 73

Engine Control Box.....	Page 74
Control Box Plus 1 Municipal.....	Page 75
VIEW 1.....	Page 76
VIEW 2.....	Page 77
Diesel Engine w/ Digi 23.9 HP.....	Page 78

*Kubota Engine Option Package.....*Page 79

Diesel Engine 24.8 HP.....	Page 80
Engine Control Box.....	Page 81
Control Box w/ Engine Controller..	Page 82
VIEW 1.....	Page 83
VIEW 2.....	Page 84
Engine Enclosure Option.....	Page 85
VIEW 1.....	Page 86

HOSE ASSEMBLY

Hose Kit - 250/400.....	Page 87
VIEW A.....	Page 88
VIEW B.....	Page 89
VIEW C.....	Page 90
Hot Oil Hose Kit - 250/400.....	Page 91
VIEW A.....	Page 92
VIEW B.....	Page 93

SCHEMATICS

Lights and Brakes.....	Page 94
Diesel Engine.....	Page 95
Control Box.....	Page 96
Hydraulic System Flow - EC1075 & Below.....	Page 97
Hydraulic System Flow - EC1076 & Above.....	Page 98
Schematic Plus 1 Auto.....	Page 99
Harness (C1) Plus 1 Auto.....	Page 100
Harness (C2) Plus 1	Page 101

ARROWBOARD

Arrowboard Option	Page 102
-------------------------	----------

PPE

Courtesy Box of PPE	Page 103
---------------------------	----------

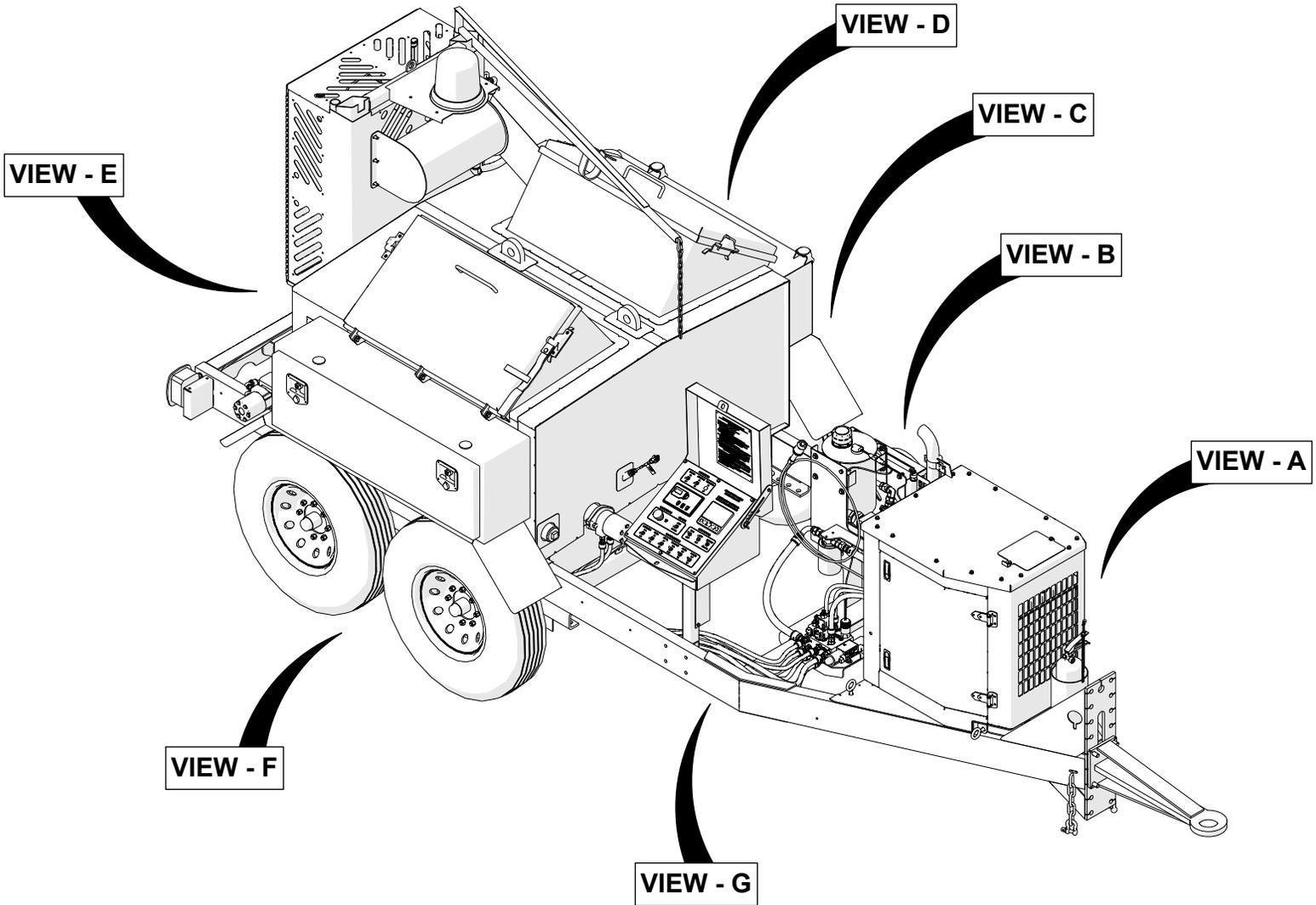
DECALS

Decal Set	Page 104
Ethnyre Cracksealer Logo Parts	Page 105



Crack Sealer 250

220846

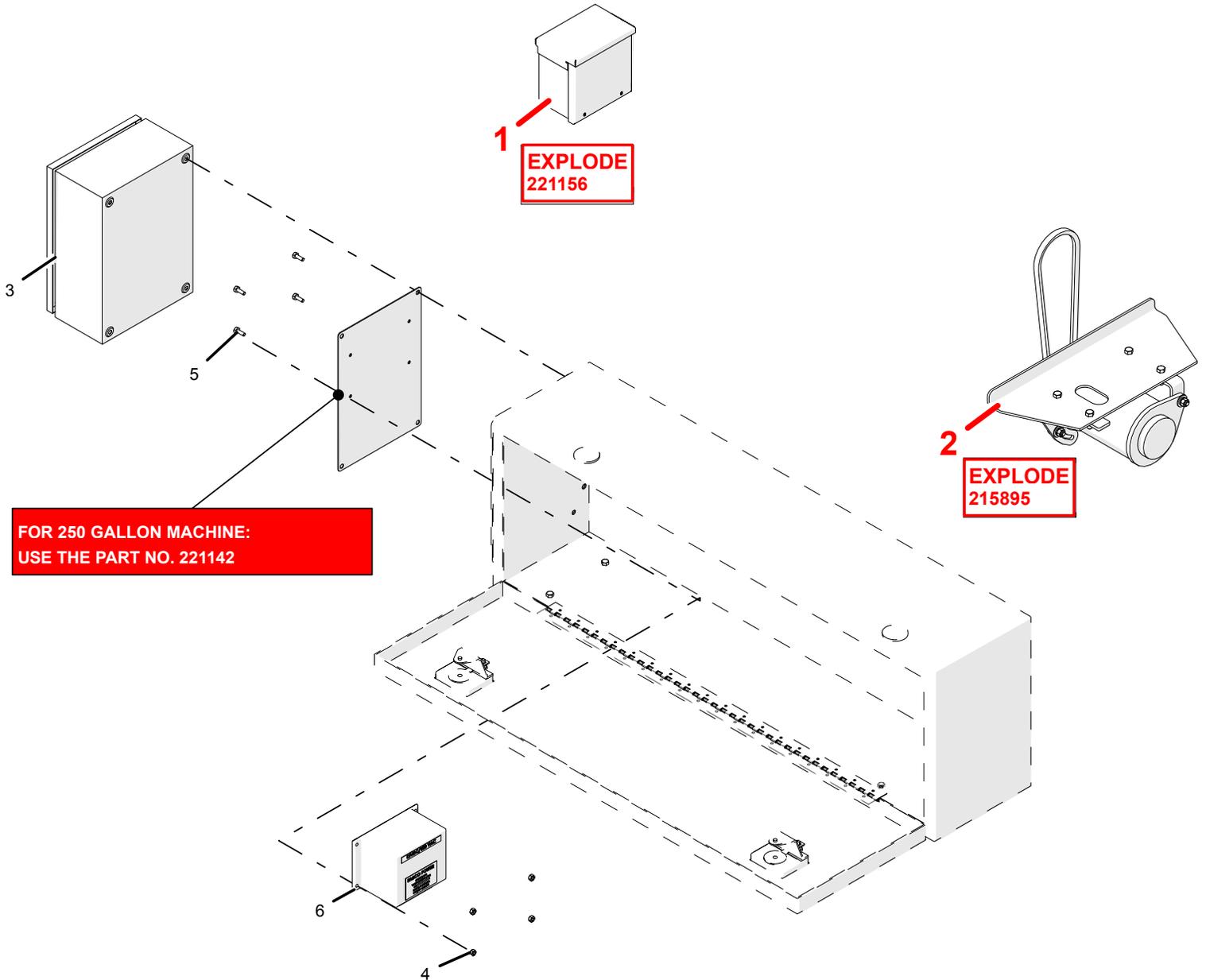


[CLICK HERE TO ELECTRIC HEATED HOSE READY OPTION](#)



Electric Heated Hose Ready Option

220678

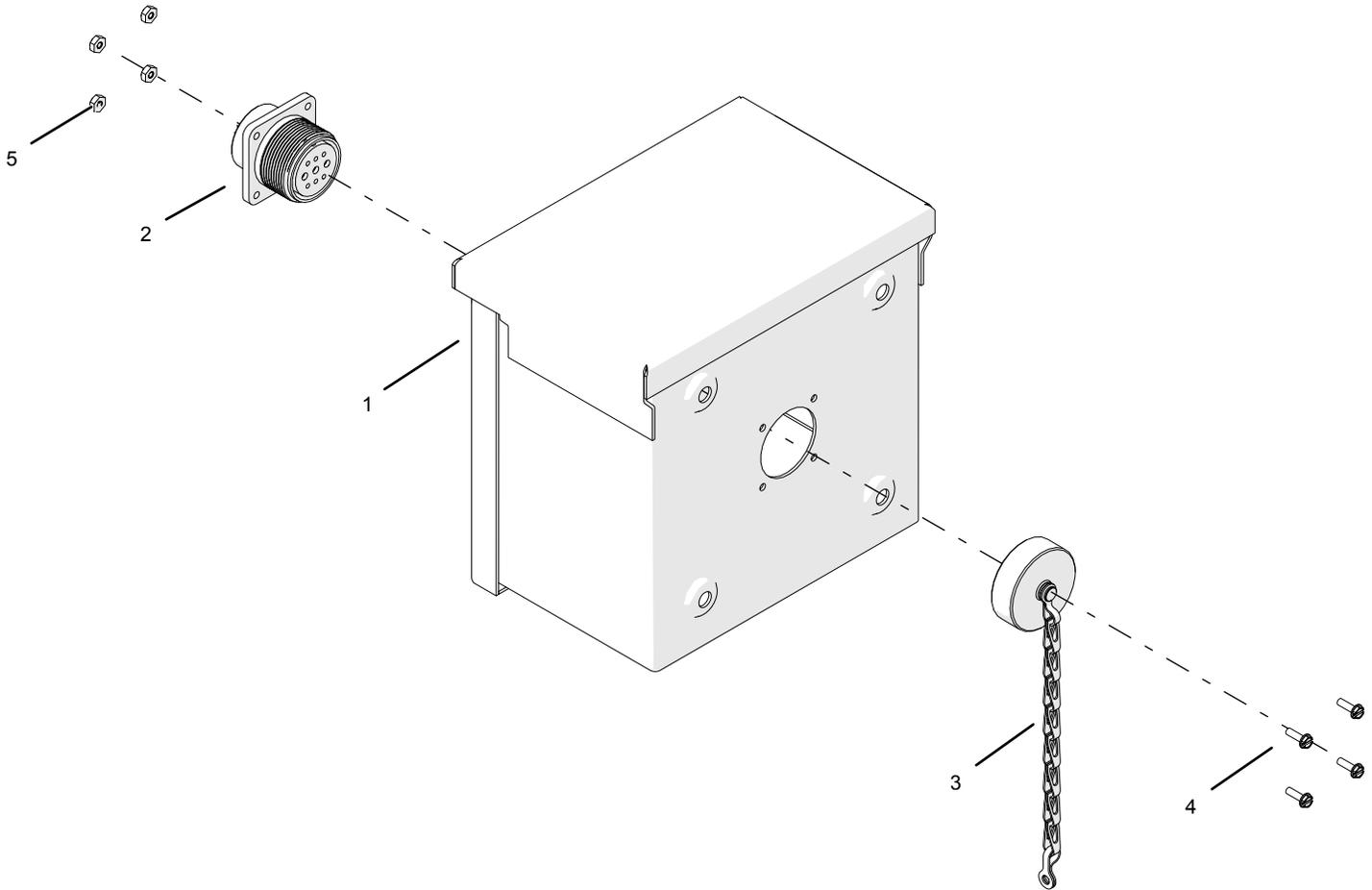


REF	PART NO	QTY	DESCRIPTION
1	221156	1	CONNECTOR BOX FOR ELECTRIC HEATED HOSE CS250/400C
2	215895	1	GENERATOR ASM 250 - 400 STD ECS 2018-
3	216358	1	CONTROL PANEL DUAL DIGITAL CNTRL PRO THERM HEATED ASPHALT HOSE
4	FAS-28500	4	NUT HEX GR5 ZINC .250-20
5	FAS-28701	4	CAP SCR. HEX GR5 ZINC .250-20 X .750
6	218229	1	POWER VOLTAGE REGULATOR
7	217883	1	90D .50 CONDUIT CONNECTOR (Not Shown)
8	ELC-24057	6	CABLE 4-CONDUCTOR 12 GA (Not Shown)



Connector Box for Electric Heated Hose - 250/400

221156



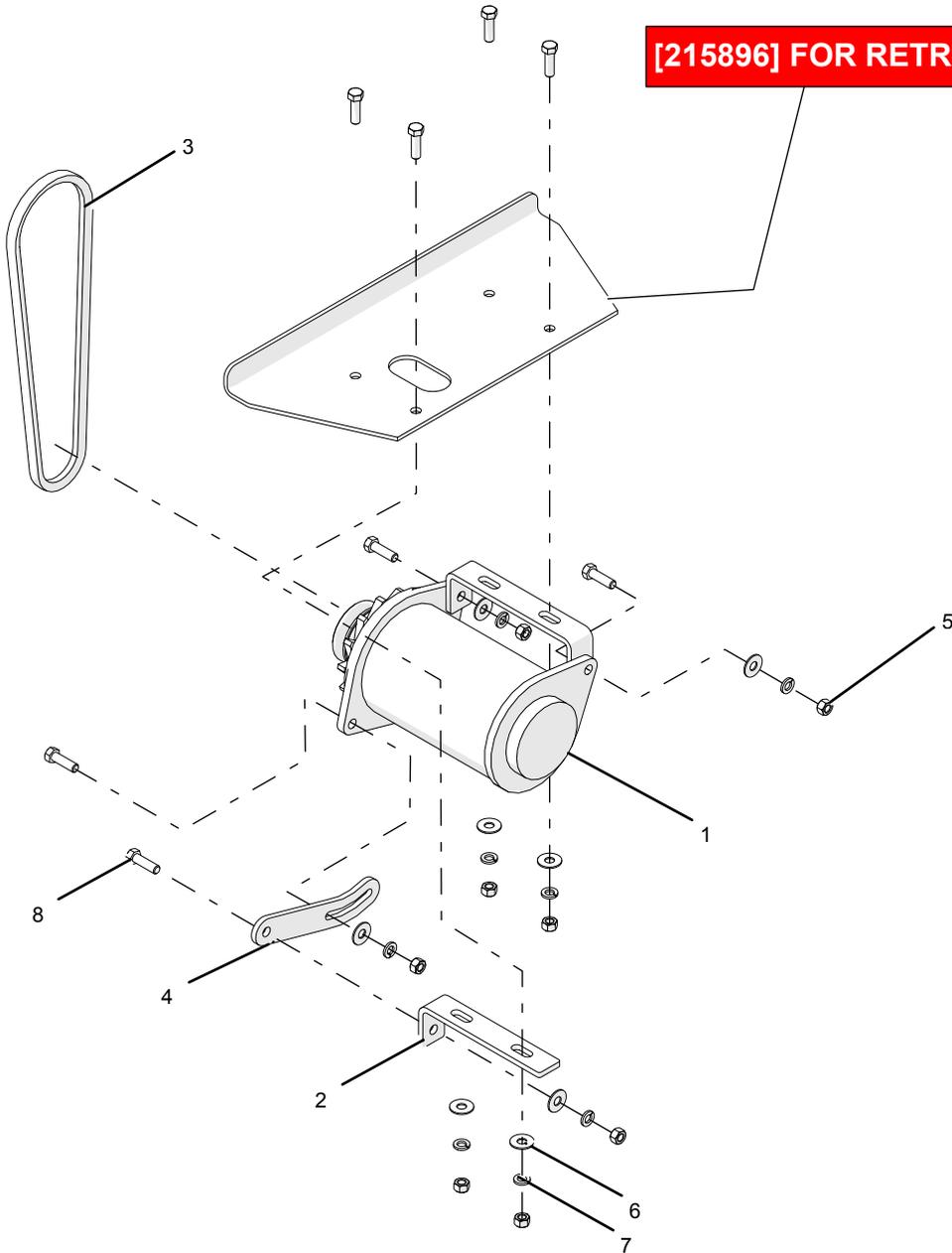
REF	PART NO	QTY	DESCRIPTION
1	ELC-80450	1	BOX ELEC. WATER-TITE 6 X 6 X 4
2	221148	1	BULKHEAD CONNECTOR CIRC 9 TERMINAL MALE QUICK CON HEATED HOSE BOX CS
3	221150	1	RECEPTACLE CAP STRT W/CHAIN FOR 221148 CONNECTOR HEATED HOSE BOX CS
4	FAS-91613	4	SCREW MACHINE SLOTTED HEX HEAD #4 X .375 IN
5	FAS-91614	4	NUT NYLON LOCK #4-40



Generator Asm - 250/400

215895

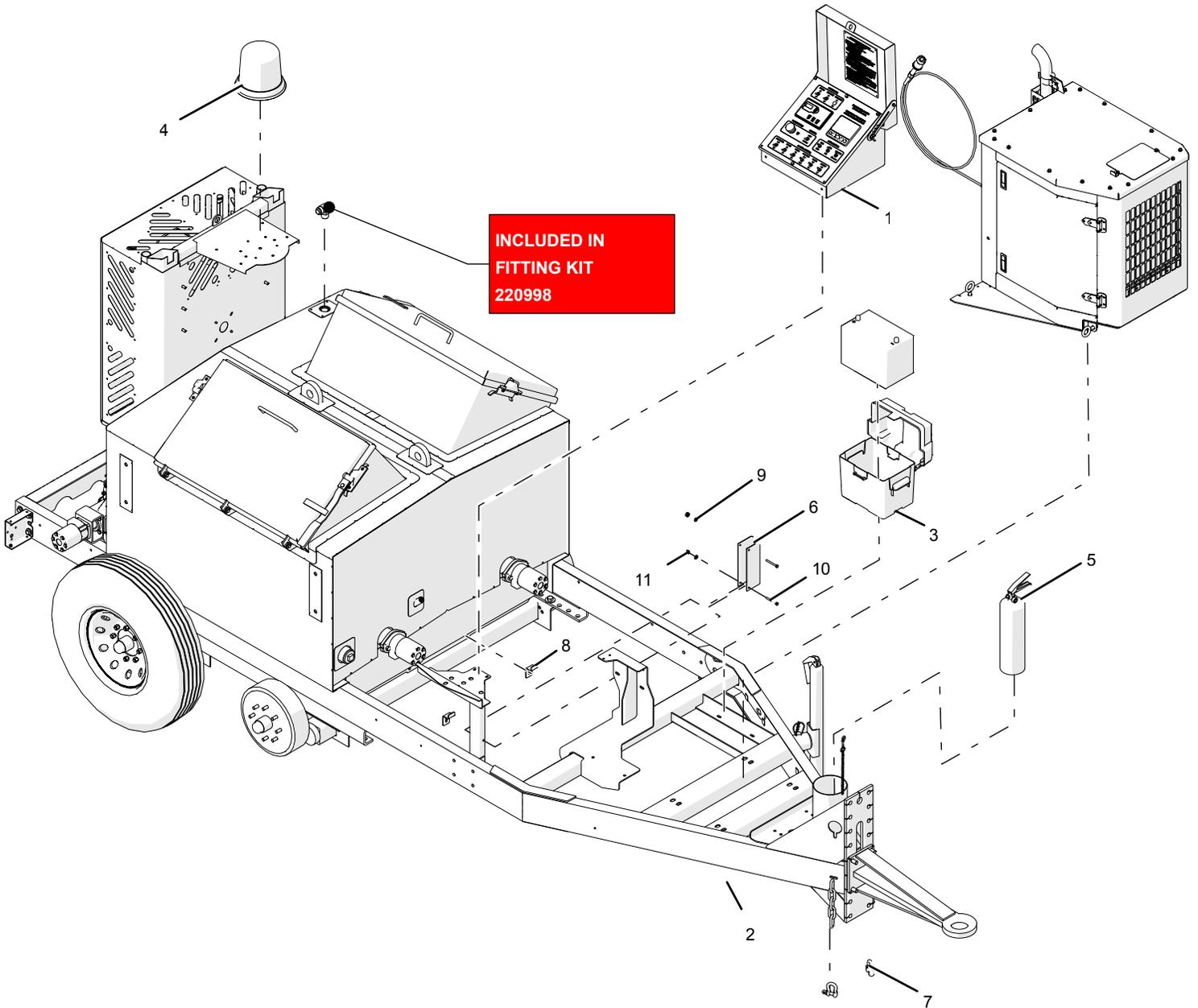
[215896] FOR RETRO FIT ONLY RUN AS NEEDED!



REF	PART NO	QTY	DESCRIPTION
1	216884	1	GENERATOR 120V 29 AMP KIT W/PULY, CTRL PANEL, BRKS CS CMPR PROTO 2017
2	216603	1	MOUNT TENSIONER GENERATOR KUBOTA V2403
3	215897	1	V-BELT XL 7365 37.08 INCH CIRCUMFERENCE
4	216600	1	ARM TENSIONER GENERATOR KUBOTA V2403
5	FAS-28502	8	NUT HEX GR5 ZINC .375-16
6	FAS-28634	8	WASHER USS FLAT GR5 ZINC .375 IN
7	FAS-28647	8	WASHER SPLIT LOCK GR5 ZINC .375 IN
8	FAS-28732	8	CAP SCR. HEX GR5 ZINC .375-16 X 1.250



VIEW - A



VIEW A

REF	PART NO	QTY	DESCRIPTION
1	222243	1	ISUZU ENGINE OPTION PACKAGE
2	218075	1	TANK ON FRAME ASM CS250C
3	222222	1	GROUP 24 SNAP TOP BATTERY BOX
4	ELC-24215	1	BEACON, ROTATING AMBER BEACON**6670A
5	MSC-80009	1	FIRE EXTINGUISHER 10 LB.
6	215819	1	GUARD CONTROL PANEL WIRING CS
7	FAS-80103	2	SHACKLE ANCHOR .438 IN
8	215804	2	CLAMP HYD HOSES ENGINE/AUGER MTR CS
9	FAS-28645	2	WASHER SPLIT LOCK GR5 ZINC .250 IN
10	FAS-28707	2	CAP SCR. HEX GR5 ZINC .250-20 X 2.50
11	FAS-28500	2	NUT HEX GR5 ZINC .250-20

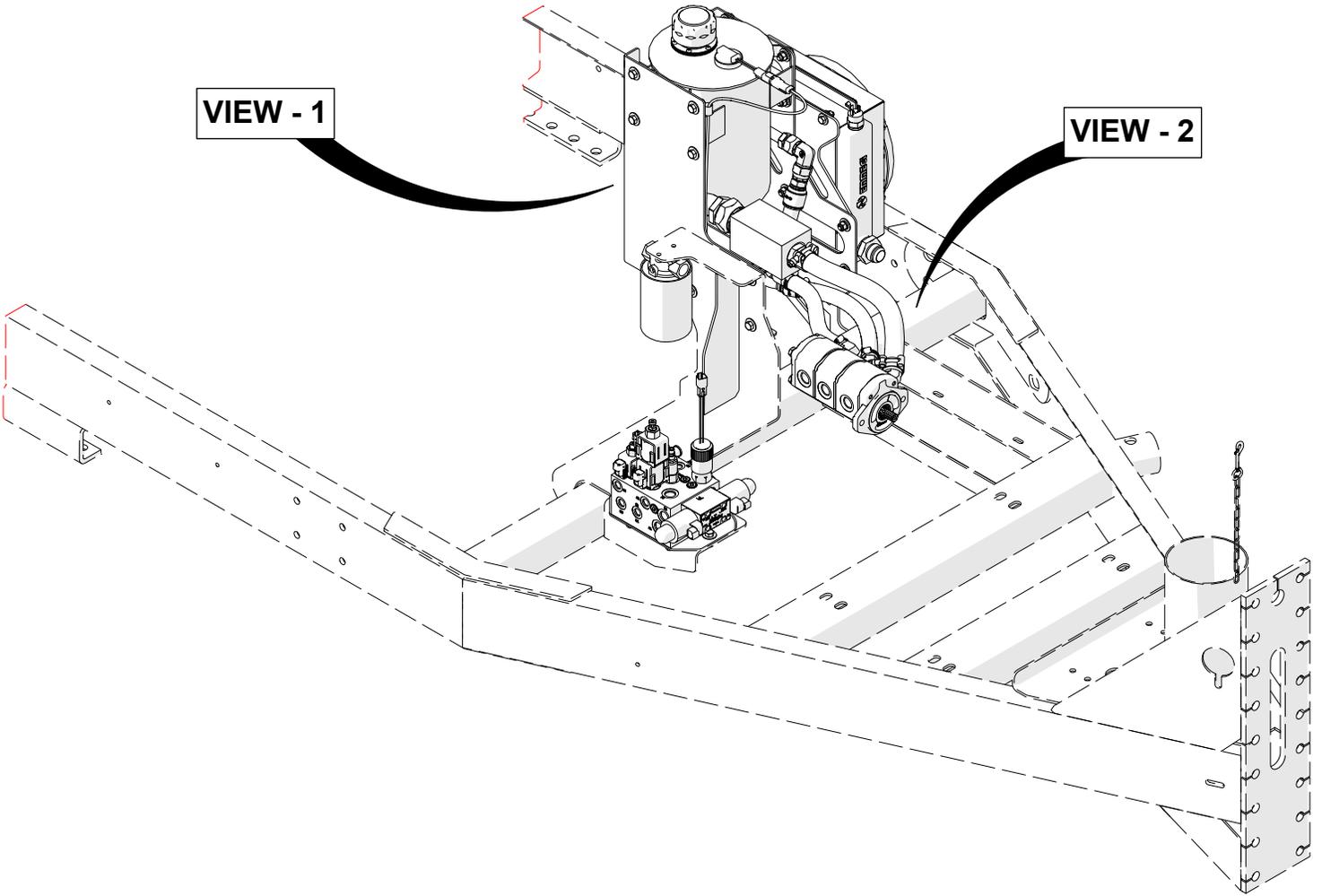


VIEW - B - 250

VIEW - 1

VIEW - 2

V
I
E
W
B

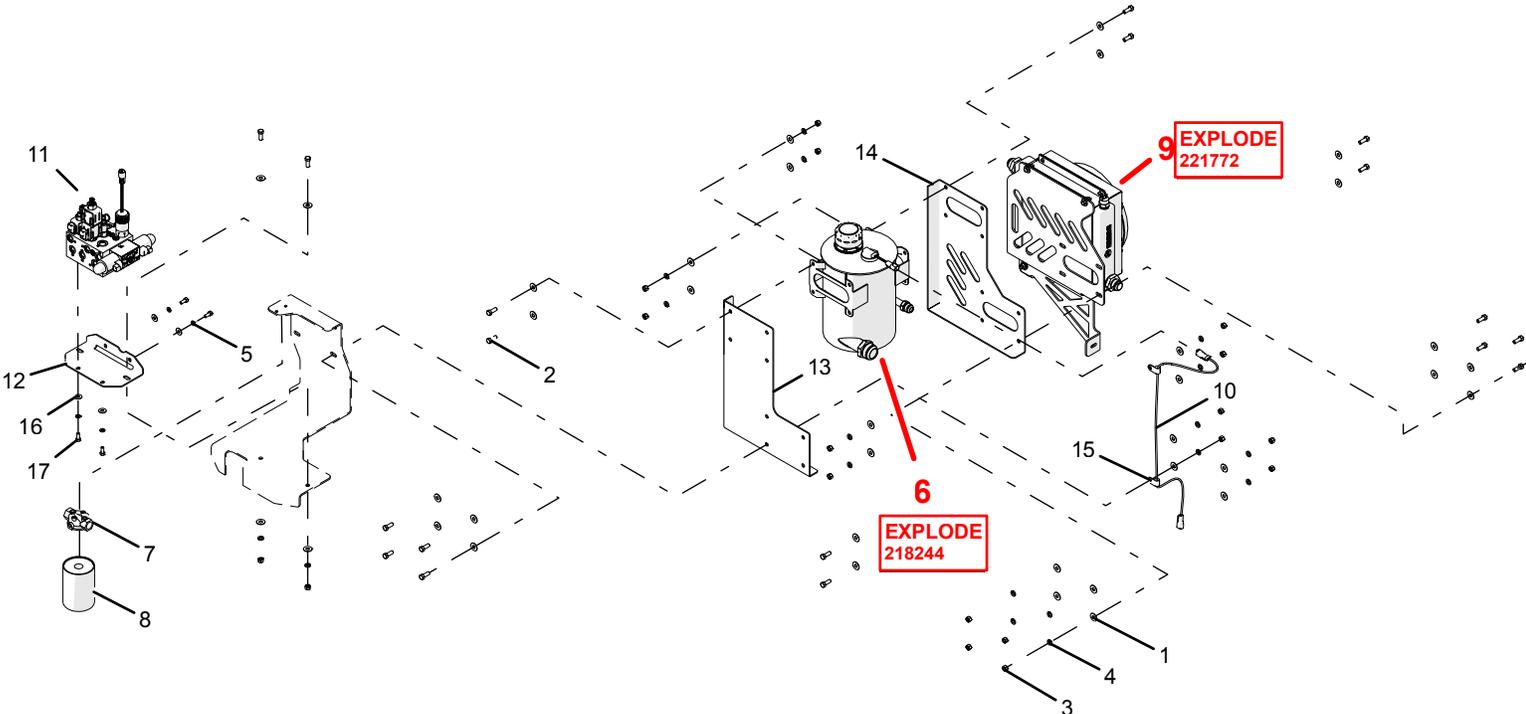




VIEW - B - 250

VIEW - 1

VIEW B



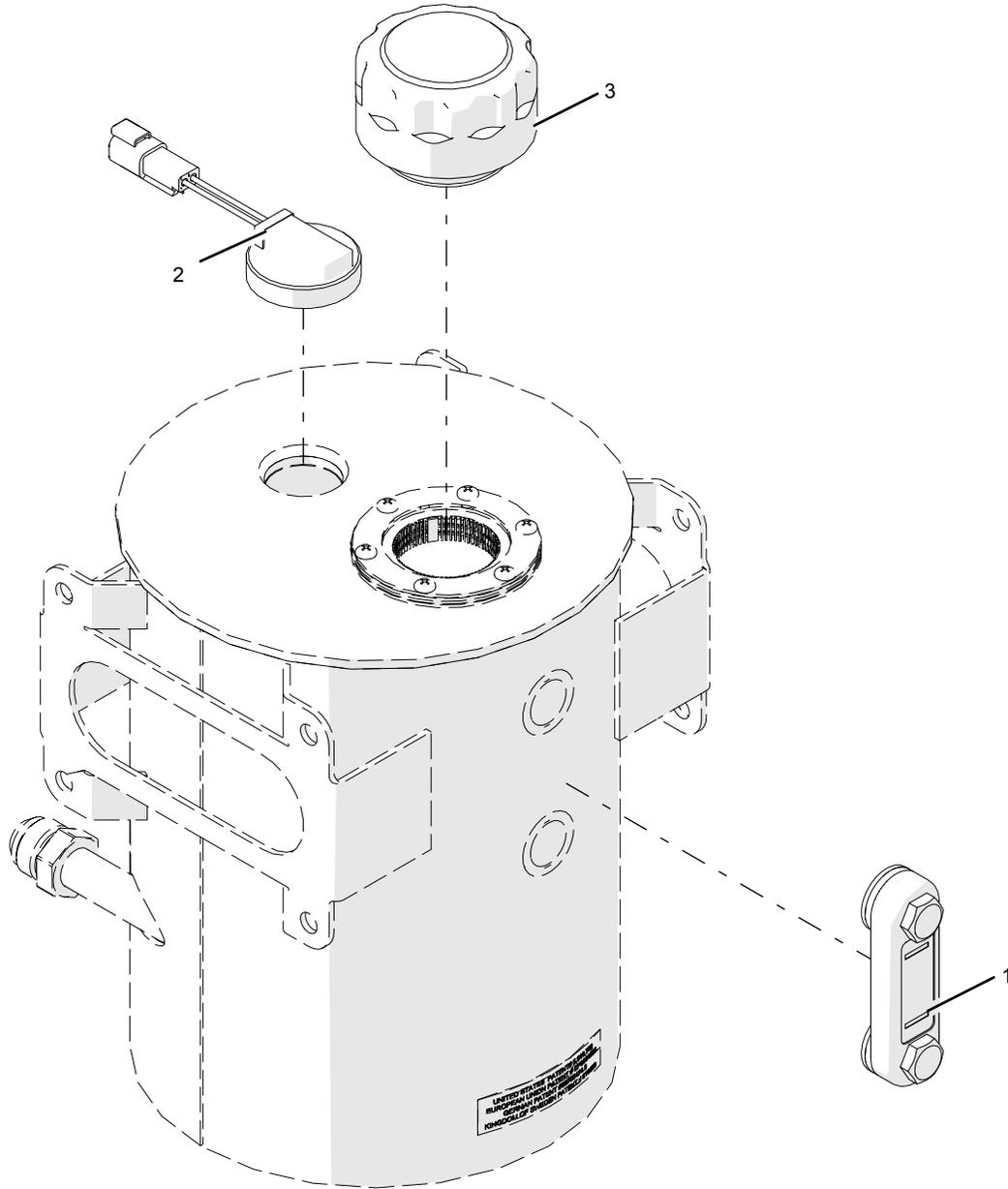
REF	PART NO	QTY	DESCRIPTION
1	FAS-28634	36	WASHER USS FLAT GR5 ZINC .375 IN
2	FAS-28731	18	CAP SCR. HEX GR5 ZINC .375-16 X 1
3	FAS-28502	18	NUT HEX GR5 ZINC .375-16
4	FAS-28647	18	WASHER SPLIT LOCK GR5 ZINC .375 IN
5	FAS-28646	4	WASHER SPLIT LOCK GR5 ZINC .313 IN
6	218244	2	TANK HYDR CYCLONE 20 GPM STEEL W/LEVEL SW
7	FTR-51735	1	FILTER HEAD, TRACTION DRIVE CASE BLEED.
8	FTR-51736	1	FILTER, 10 MICRON 15GPM (CASE BLEED)
9	221772	2	COOLER, ASM, CS

REF	PART NO	QTY	DESCRIPTION
10	221360	4	HARN LOW HYDRAULIC EXTENSION
11	221967	1	VALVE ASSY W/ MANIFOLD HIC 2023 ECS REPLACES 220958
12	221968	1	MOUNT ALT HYD VALVE ASSY 220958 ECS
13	3391211	1	VLV SUPPORT BRKT HYD TANK ECS PUMP FIX
14	3391212	1	VLV SUPPORT BRKT HYD COOLER ECS PUMP FIX
15	FAS-24476	2	CLAMP .50 LCRC
16	FAS-28633	4	WASHER USS FLAT GR5 ZINC .313 IN
17	FAS-28715	4	CAP SCR. HEX GR5 ZINC .313-18 X .750



Tank Hyd. Cyclone 20 GPM w/ Level SW - 250/400

218244

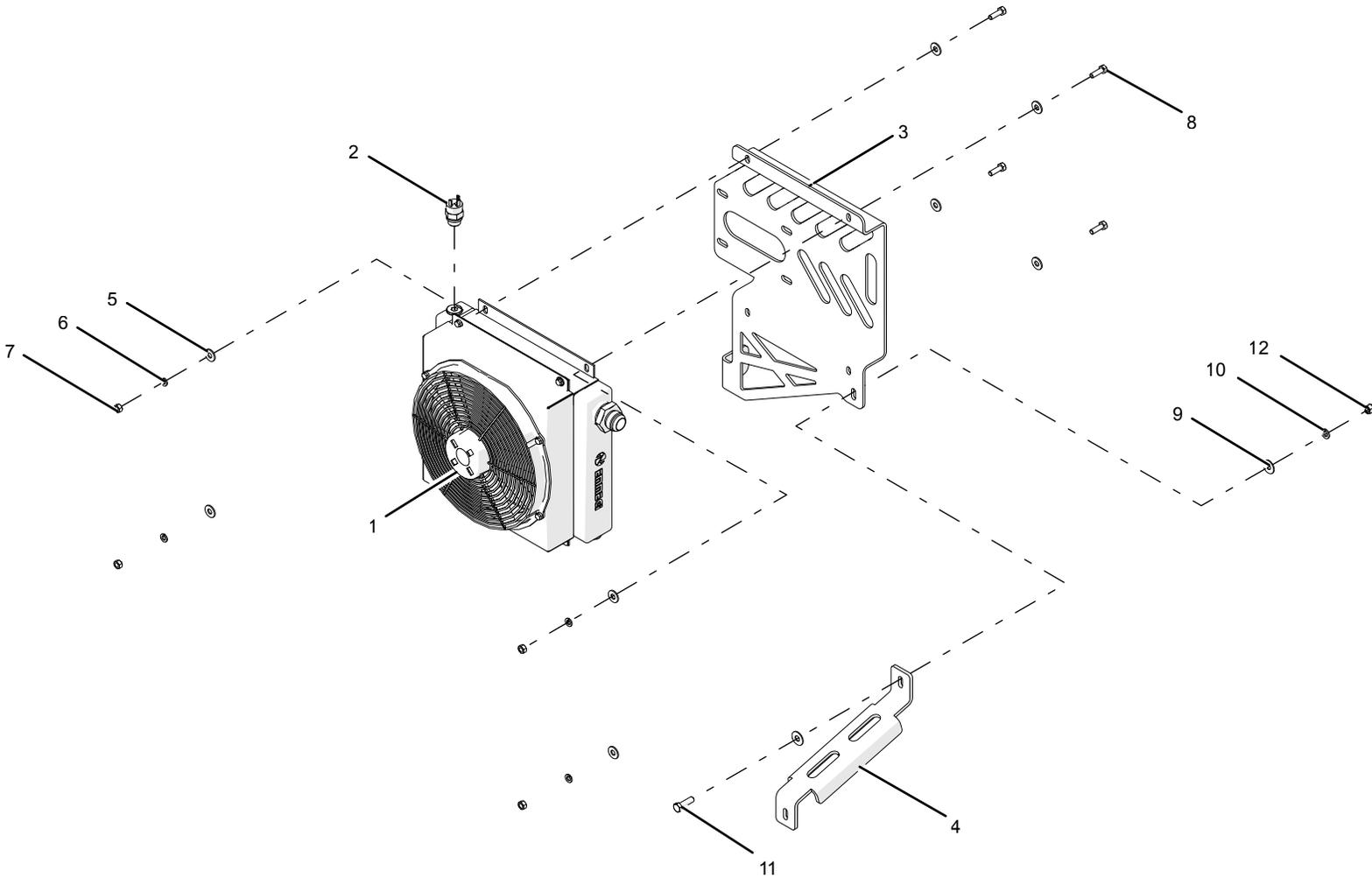


REF	PART NO	QTY	DESCRIPTION
1	221394	1	SIGHT GLASS FOR CYCLONE TANK
2	221392	1	SWITCH LOW OIL LEVEL CYCLONE
3	221393	1	CAP ASM FOR CYCLONE TANK



Cooler Assembly - 250/400

221772

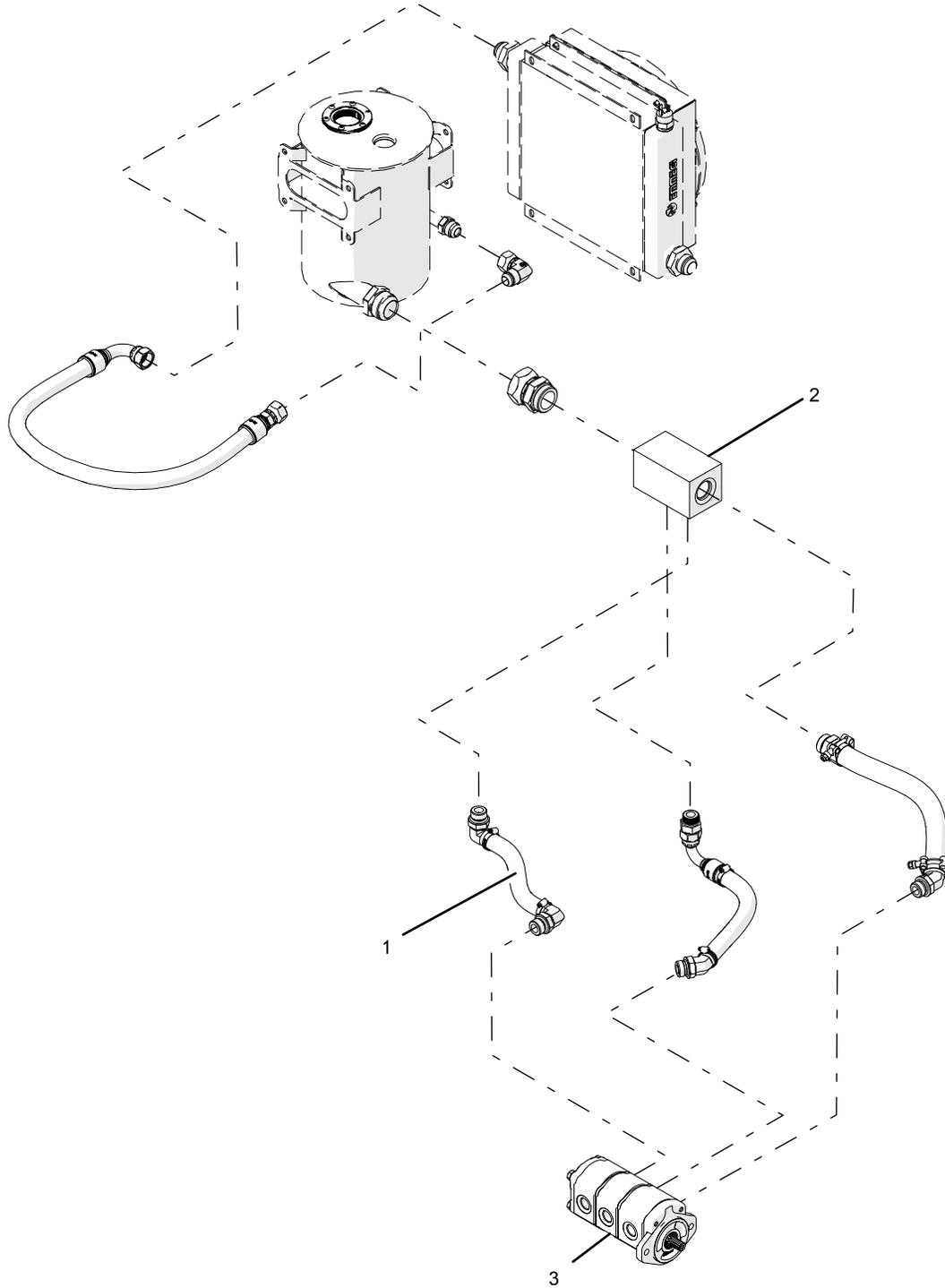


REF	PART NO	QTY	DESCRIPTION
1	217926	1	OIL COOLER MOBILE TYPE CS 12VDC W/FAN
2	221688	1	SWITCH TEMP 140F -118F 12V 10A FOR 2000K SERIES OIL COOLERS
3	221679	1	MOUNT, COOLER, CS
4	221681	1	MOUNT, SIDE, COOLER, CS
5	FAS-28633	8	WASHER USS FLAT GR5 ZINC .313 IN
6	FAS-28646	4	WASHER SPLIT LOCK GR5 ZINC .313 IN
7	FAS-28501	4	NUT HEX GR5 ZINC .313-18
8	FAS-28716	4	CAP SCR. HEX GR5 ZINC .313-18 X 1
9	FAS-28634	2	WASHER USS FLAT GR5 ZINC .375 IN
10	FAS-28647	1	WASHER SPLIT LOCK GR5 ZINC .375 IN
11	FAS-28732	1	CAP SCR. HEX GR5 ZINC .375-16 X 1.250
12	FAS-28502	1	NUT HEX GR5 ZINC .375-16



VIEW - B - 250

VIEW - 2

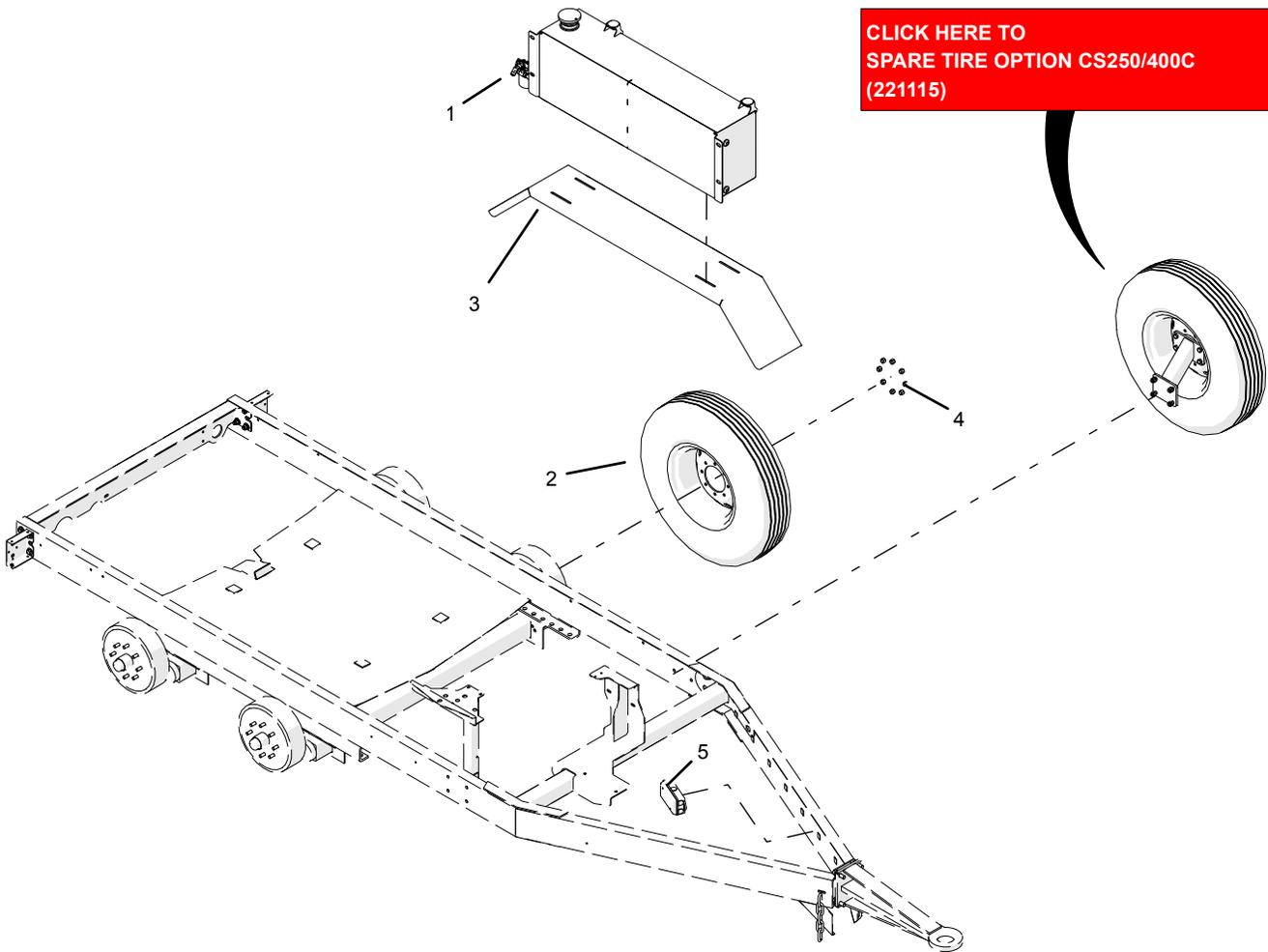


REF	PART NO	QTY	DESCRIPTION
1	221958	1	HOSE/ADAPTER KIT HYD PUMP SUCTION FIX ECS
2	3391207	1	MANIFOLD-HYD RETURN HEADER
3	221676	1	HYD TRIPLE PUMP KR 2022



VIEW - C - 250

V
I
E
W
C



**CLICK HERE TO
SPARE TIRE OPTION CS250/400C
(221115)**

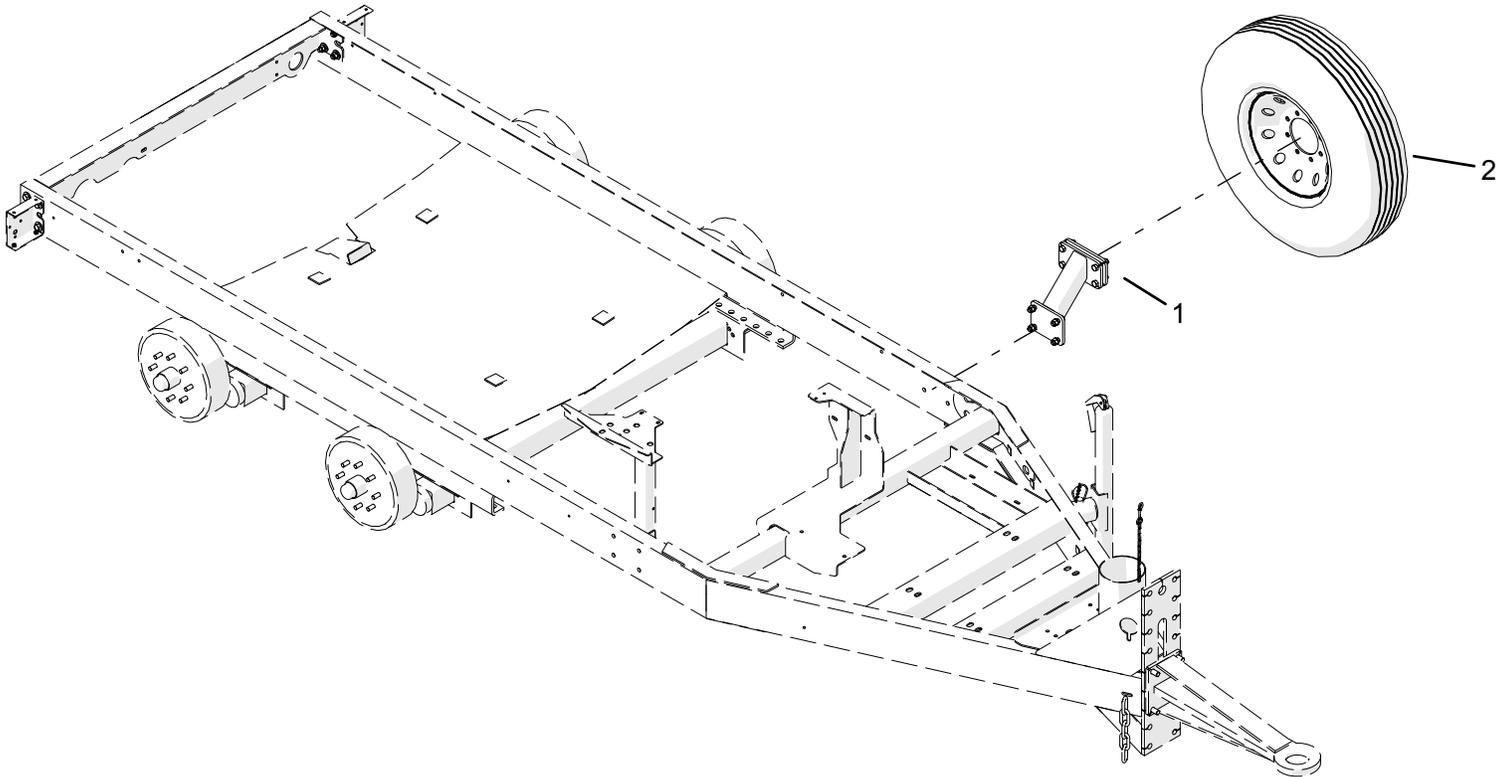
REF	PART NO	QTY	DESCRIPTION
1	221184	1	TANK ASM DIESEL CS250C
2	MSC-80087	1	WHEEL AND TIRE ASM CS
3	221182	1	FENDER BOLT-ON CS250/400C
4	FAS-80148	8	NUT LUG (WHEEL) KRKR/TOW BAR .50-20
5	HSG-24235	1	JUNCTION BOX 7 POLE (BERG BX)



Spare Tire Option - 250/400

221115

V
I
E
W
C

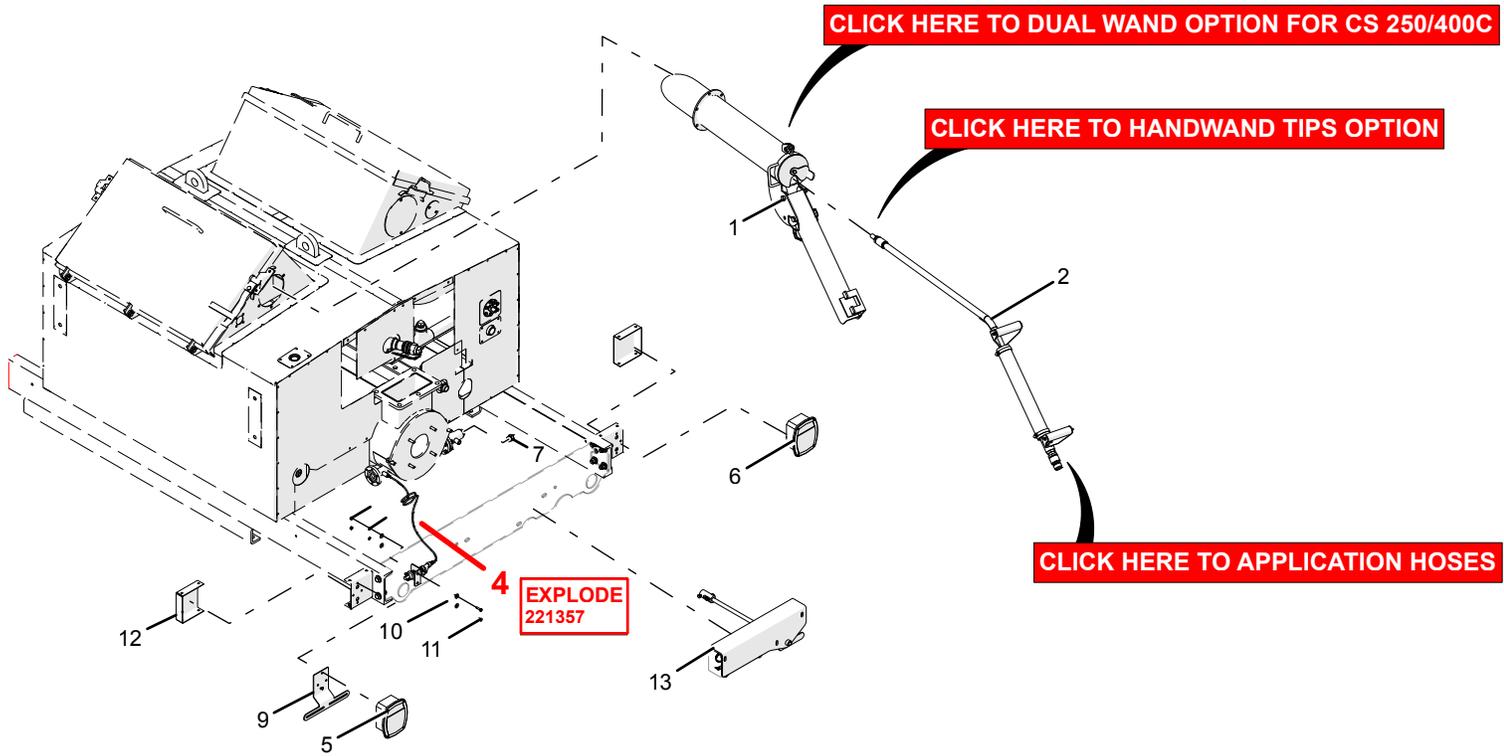


REF	PART NO	QTY	DESCRIPTION
1	221112	1	SPARE TIRE MOUNT CS250/400C
2	MSC-80087	1	WHEEL AND TIRE ASM CS



VIEW - D - 250

V
I
E
W
D

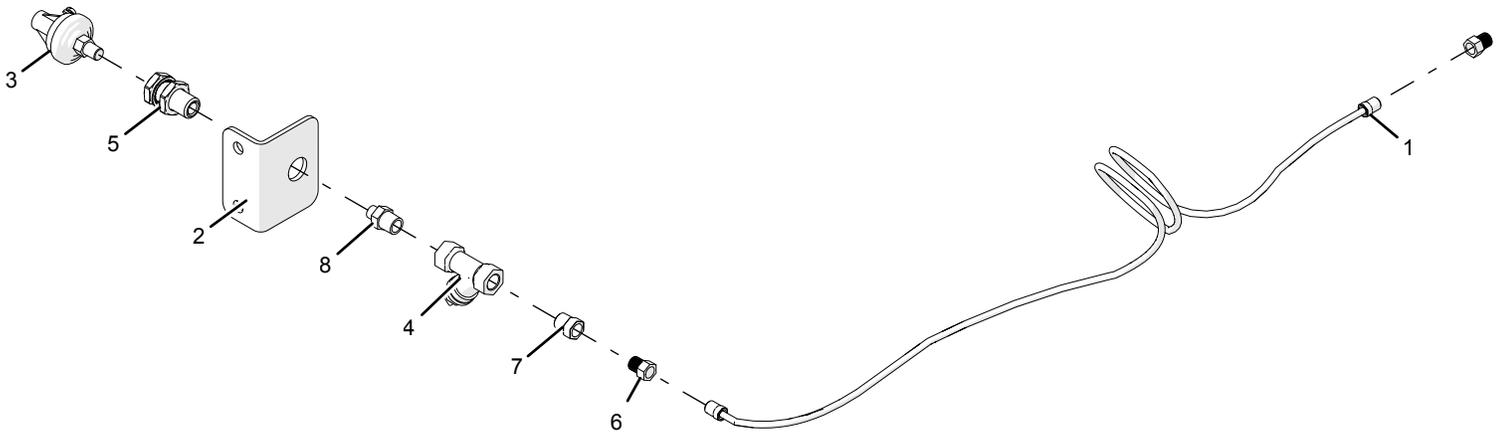


REF	PART NO	QTY	DESCRIPTION
1	218064	1	MOUNT AND HOLDER HANDWAND BOLT-ON
2	MSC-80409	1	HAND WAND ASM CS
3	FAS-28500	2	NUT HEX GR5 ZINC .250-20
4	221357	1	AS - H.O. PRESSURE SWITCH
5	ELC-24471	1	LED SUPER NOVA TAIL LIGHT LH
6	ELC-24470	1	LED SUPER NOVA TAIL LIGHT RH
7	10MB-6MJ	1	C5315X6X10
8	FAS-28645	2	WASHER SPLIT LOCK GR5 ZINC .250 IN
9	217108	1	CS LICENSE PLATE BRACKET
10	FAS-28632	4	WASHER USS FLAT GR5 ZINC .250 IN
11	FAS-28702	2	CAP SCR. HEX GR5 ZINC .250-20 X 1
12	218080	2	COVER MOUNT TAIL LIGHTS CS400C
13	221199	1	TANK VALVE ACTUATOR ASM CS250/400C



H.O. Pressure Switch - 250/400

221357



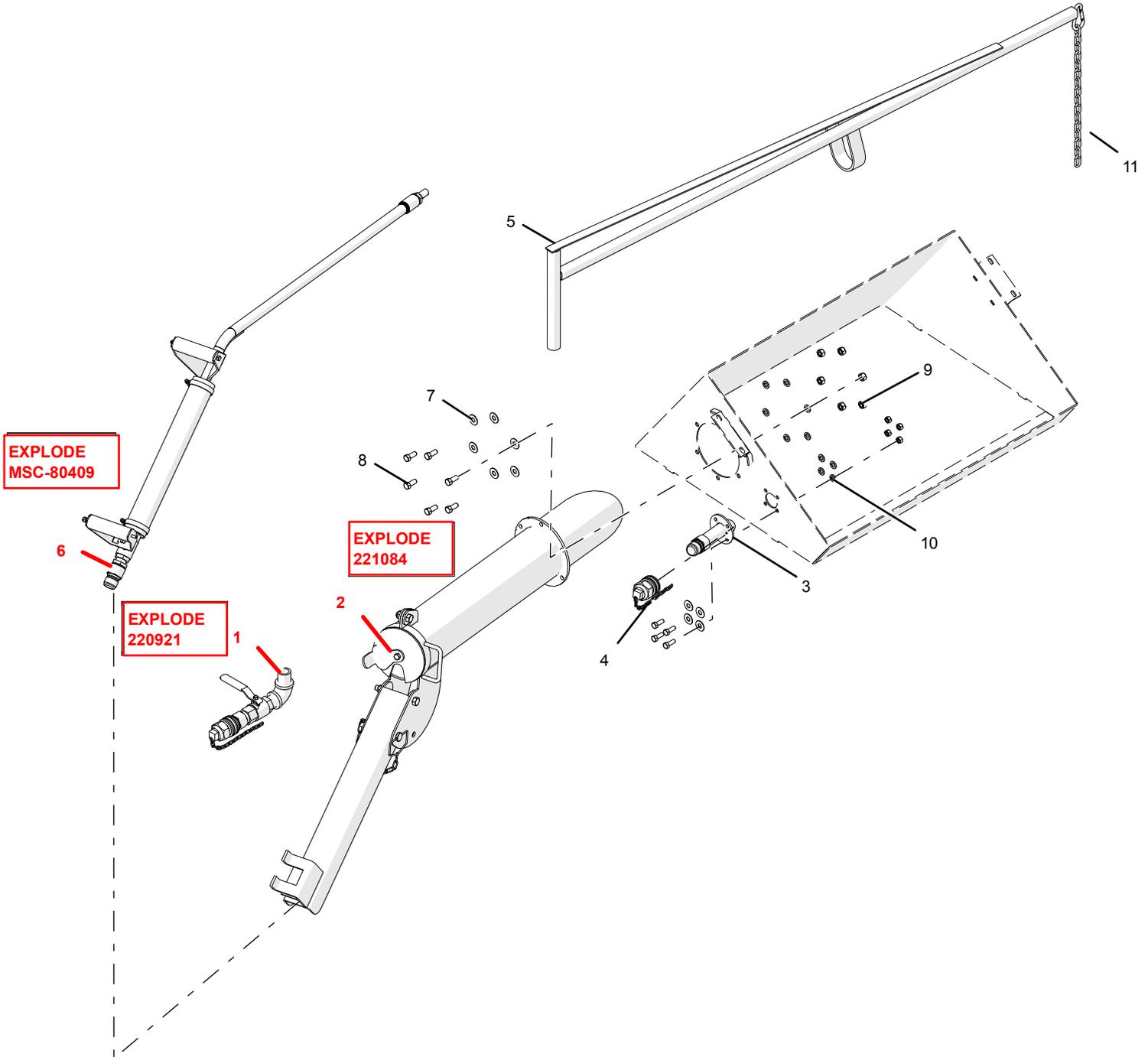
REF	PART NO	QTY	DESCRIPTION
1	221292	1	BRAKE LINE .188 X 40 IN LG CS
2	221123	1	PRESSURE SWITCH MOUNT BRACKET CS250/400C
3	221223	1	HOT OIL PRESSURE SWITCH 4 PSI SPST-NO CS
4	221358	1	FITTING - 1/4 NPT STRAINER
5	221615	1	BULK HEAD FITTING 1/8 FIP X 1-1/2 IN LG 1/8 NPTF X 5/8 IN
6	3IF-2MP	2	202X3
7	4MP-2FP	1	4MP-2FP
8	4MP-2MP	1	4MP-2MP



Dual Wand Option

221274

V
I
E
W
D



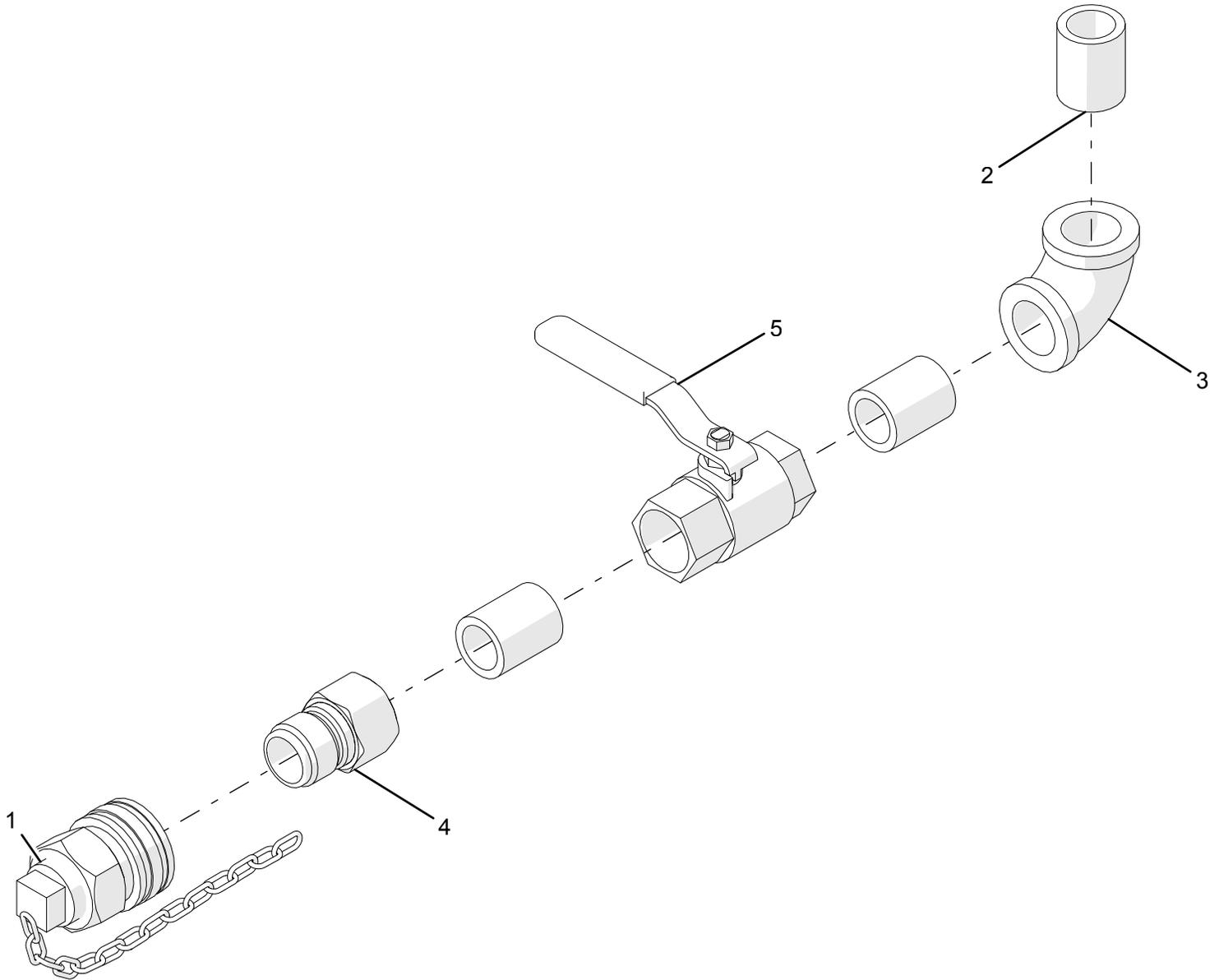
REF	PART NO	QTY	DESCRIPTION
1	220921	1	CS DUAL PRODUCT HOSE HOOKUP
2	221084	1	MOUNT AND HOLDER HANDWAND BOLT-ON RH
3	221085	1	HAND WAND HOSE RECIRCULATE LINE ASM BOLT-ON RH
4	221167	1	END CAP 1 IN SWIVEL DISCONNECT ASM W/ CHAIN
5	BRK-80365	1	HOSE JIB CS
6	MSC-80409	1	HAND WAND ASM CS
7	FAS-28621	10	WASHER SAE FLAT GR8 ZINC .375 IN
8	FAS-28731	10	CAP SCR HEX GR5 ZINC .375-16 X 1 *
9	FAS-28538	10	NUT STOVER LOCK GR8 ZINC .375-16
10	FAS-28647	10	WASHER SPLIT LOCK GR5 ZINC .375 IN *
11	211109	1	CHAIN PROOF COIL .188 IN



Dual Product Hose HookUp

220921

V
I
E
W
D

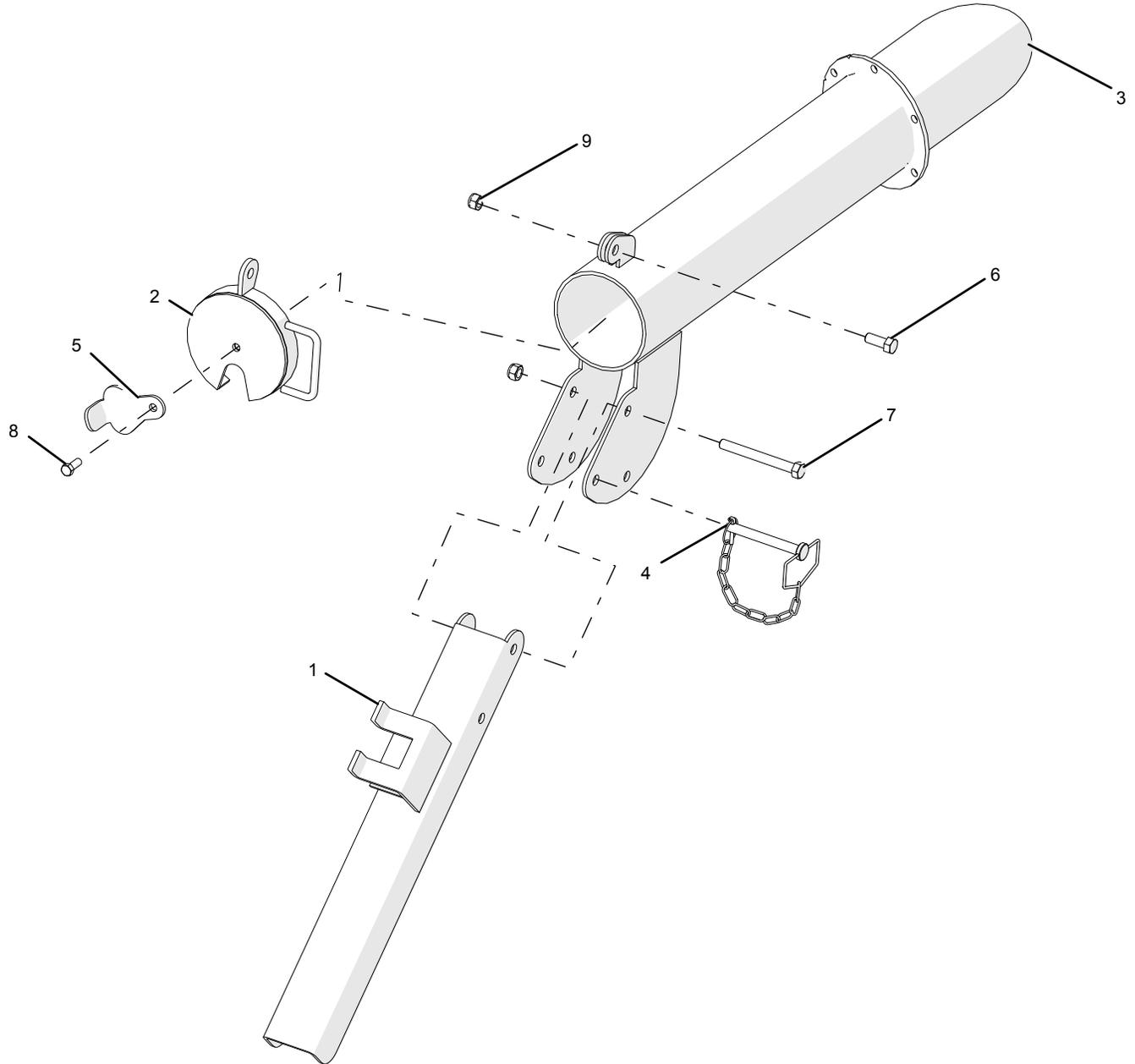


REF	PART NO	QTY	DESCRIPTION
1	221167	1	END CAP 1 IN SWIVEL DISCONNECT ASM W/ CHAIN
2	FIT-28005	3	NIPPLE SCH. 80 CW 1 X CLOSE
3	FIT-28210	1	ELBOW PIPE MAL. 90DEG. 1.0 IN
4	FIT-29741	1	FITTING COUPLER SWIVEL DISCONNECT 1 IN
5	VLV-29240	1	VALVE BALL BRONZE S/S STEM 1 IN



Mount and Holder Handwand-Bolt On RH

221084



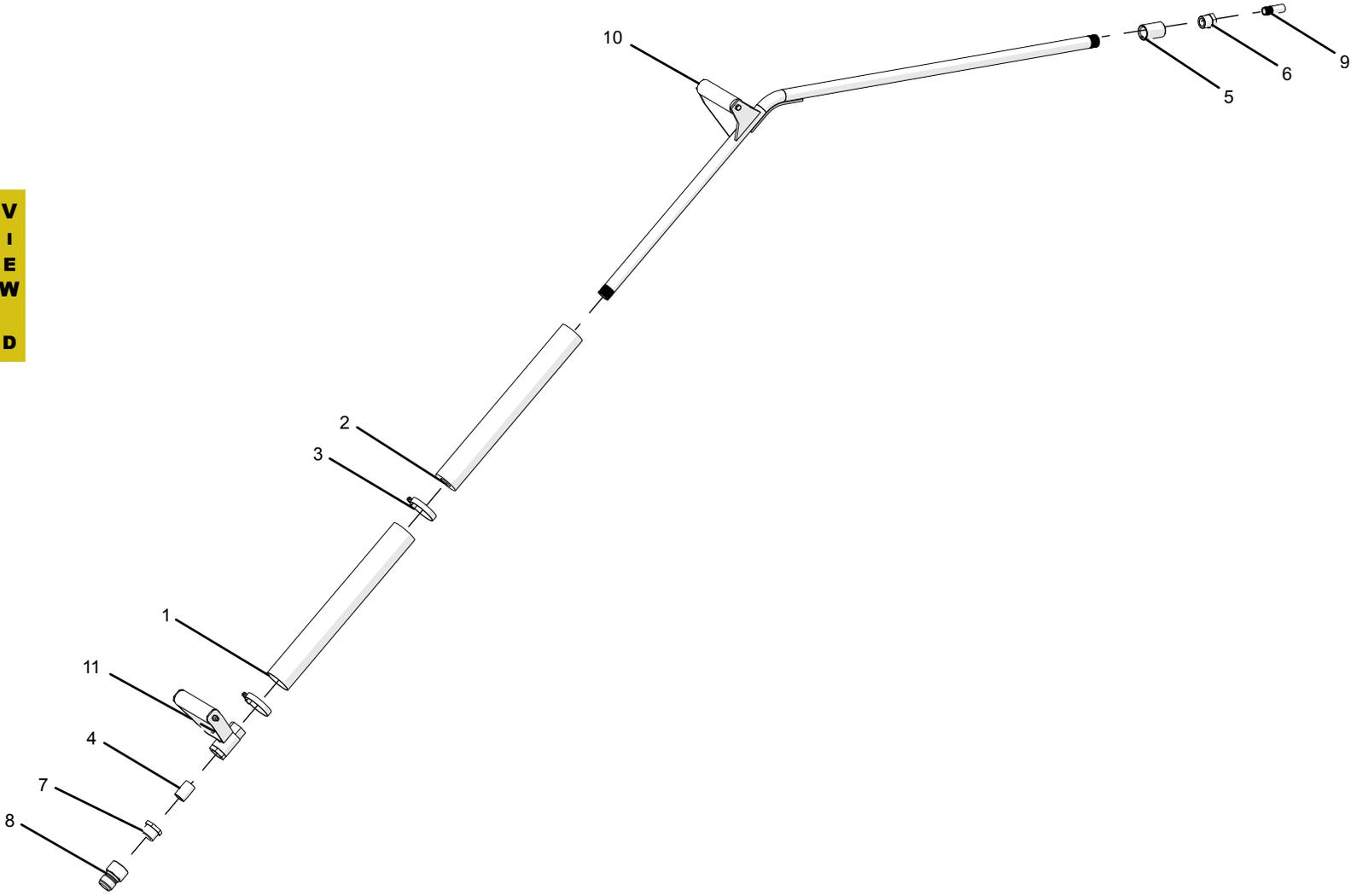
REF	PART NO	QTY	DESCRIPTION
1	221321	1	WDMT HANDWAND MOUNT PIVOT
2	221323	1	WDMT HANDWAND HOLDER LID RH
3	221325	1	WDMT HANDWAND MOUNT RH
4	215855	1	HITCH PIN .50 X 4.75 WITH LYNCH PIN & CHAIN
5	218067	1	COVER LID MOUNT AND HOLDER HANDWAND BOLT-ON
6	FAS-28761	1	CAP SCR HEX GR5 ZINC .50-13 X 1.250
7	FAS-28621	1	CAP SCR. HEX GR5 ZINC .50-13 X 4.50
8	FAS-28731	1	CAP SCR. HEX GR5 ZINC .375-16 X 1
9	FAS-28540	2	NUT STOVER LOCK GR8 ZINC .500-13



Handwand Asm

MSC-80409

V
I
E
W
D

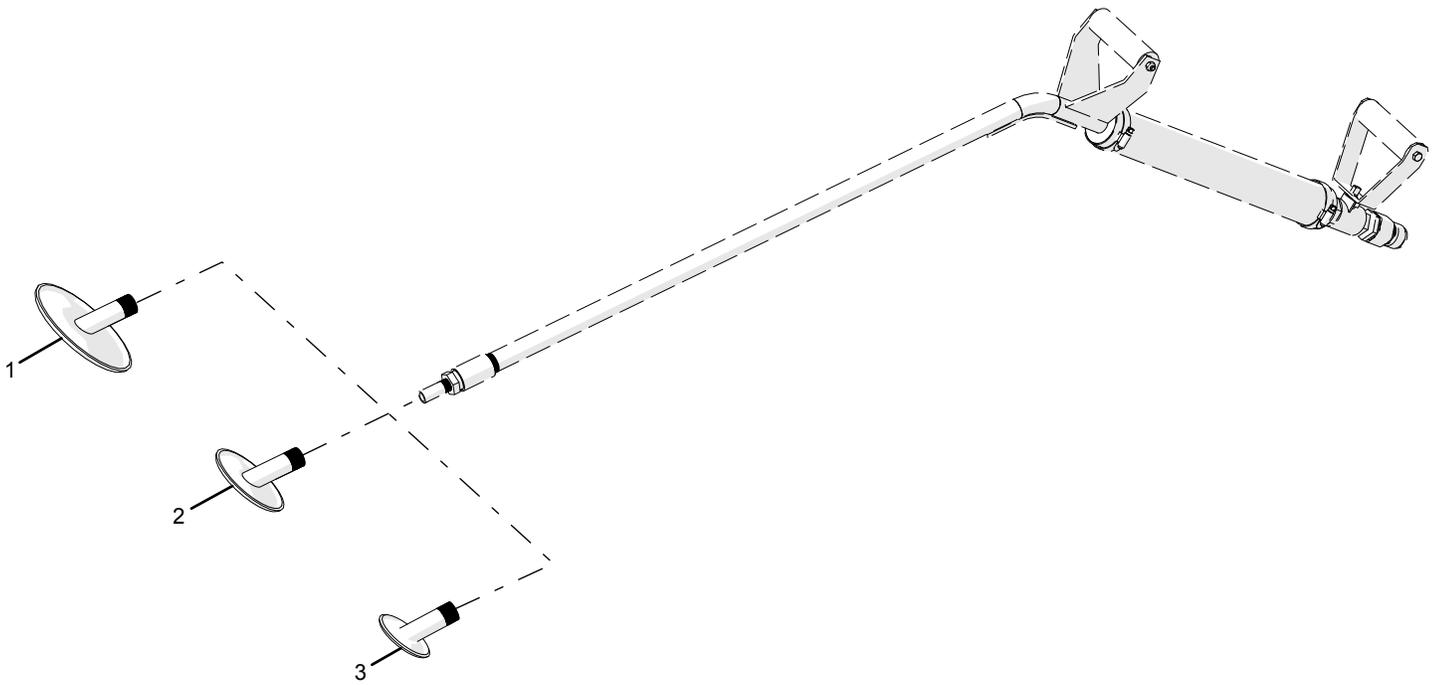


REF	PART NO	QTY	DESCRIPTION
1	209403	1	SLEEVE HOSE ECS 2.50 IN X 17 IN LONG
2	209405	1	INSULATION RD. W/ASJ (ECS HANDWAND) CUT TO 17 IN
3	FAS-26084	2	CLAMP HOSE #80
4	FIT-28004	1	NIPPLE SCH. 80 CW .750 X CLOSE
5	FIT-28179	1	3/4" COUPLING
6	FIT-28347	1	BUSHING PIPE HEX .750 X .375 BRASS
7	FIT-28351	1	BUSHING PIPE MAL. HEX. 1.00 X .750
8	FIT-29741	1	FITTING COUPLER SWIVEL DISCONNECT 1 IN
9	MSC-80408	1	ECS HANDWAND TIP (STEEL PIPE)
10	MSC-80414	1	HANDWAND PIPE ASM ECS
11	VLV-27084	1	BALL VALVE W/HANDLE ASSY(NEW STYLE)



Handwand Tips Option - 250/400

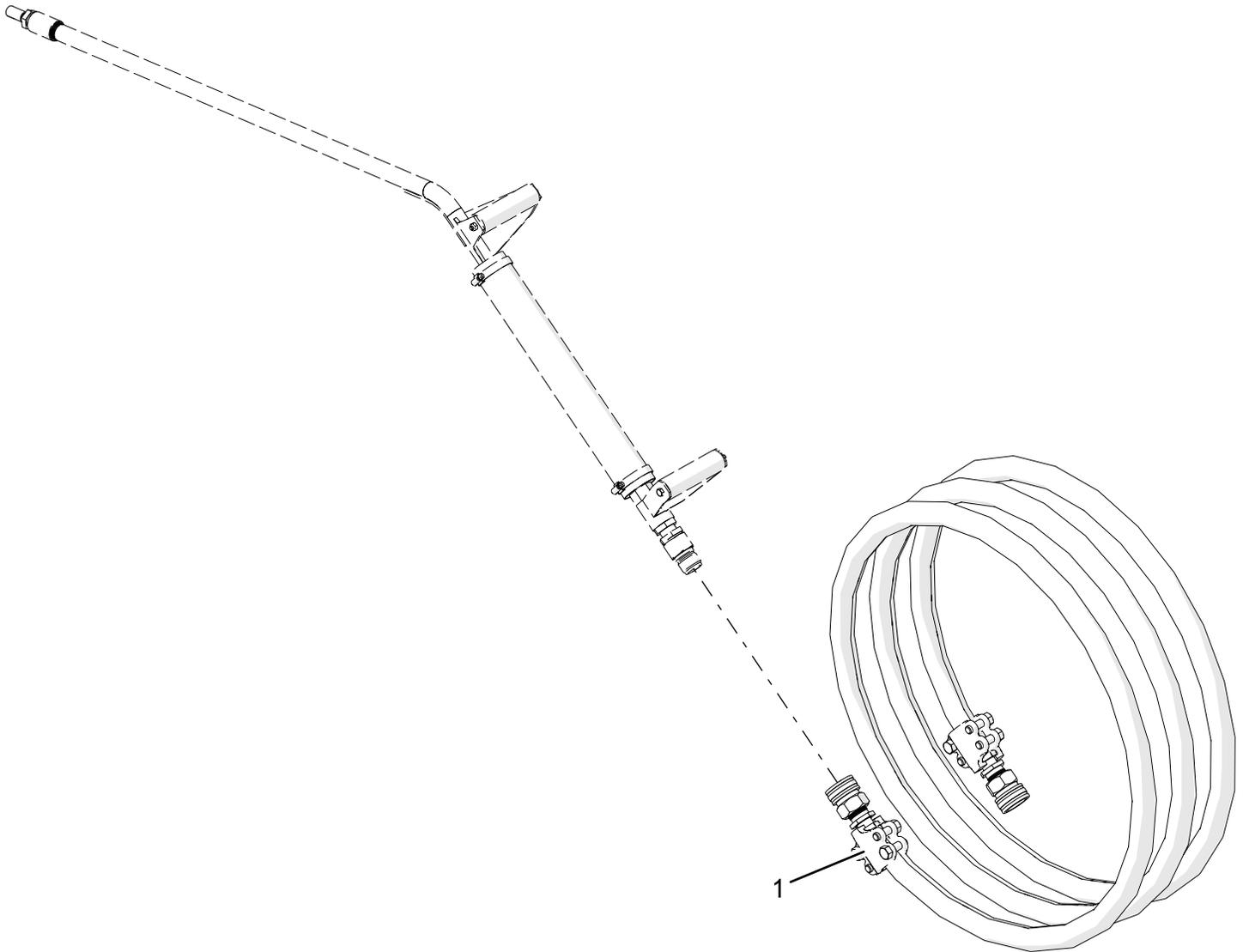
V
I
E
W
D



REF	PART NO	QTY	DESCRIPTION
1	MSC-80746	1	DISC, HANDWAN TIP 6" STEEL
2	MSC-80747	1	DISC, HANDWAN TIP 4-1/2" STEEL
3	MSC-80748	1	DISC, HANDWAN TIP 3" STEEL



APPLICATION HOSES



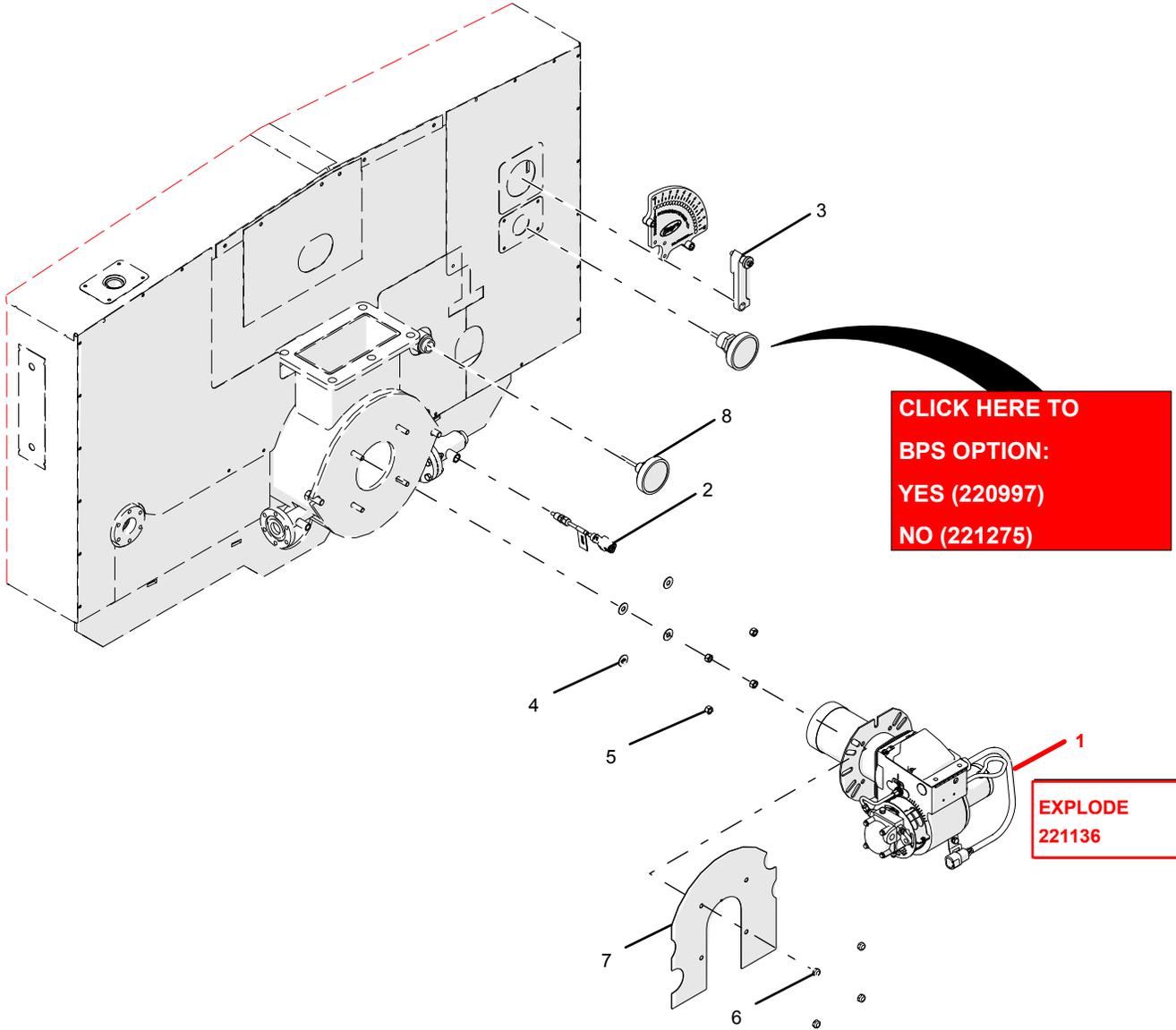
V
I
E
W
D

REF	PART NO	QTY	DESCRIPTION
1	PIP-80415	1	APPLICATOR HOSE ASM BLK FIRE SL. 1"X20'
1	221173	1	ELECTRIC HEATED APPLICATION HOSE 3/4"X25'
1	217071	1	STAINLESS STEEL APPLICATION HOSE 3/4"X18'



VIEW - E

V
I
E
W
E

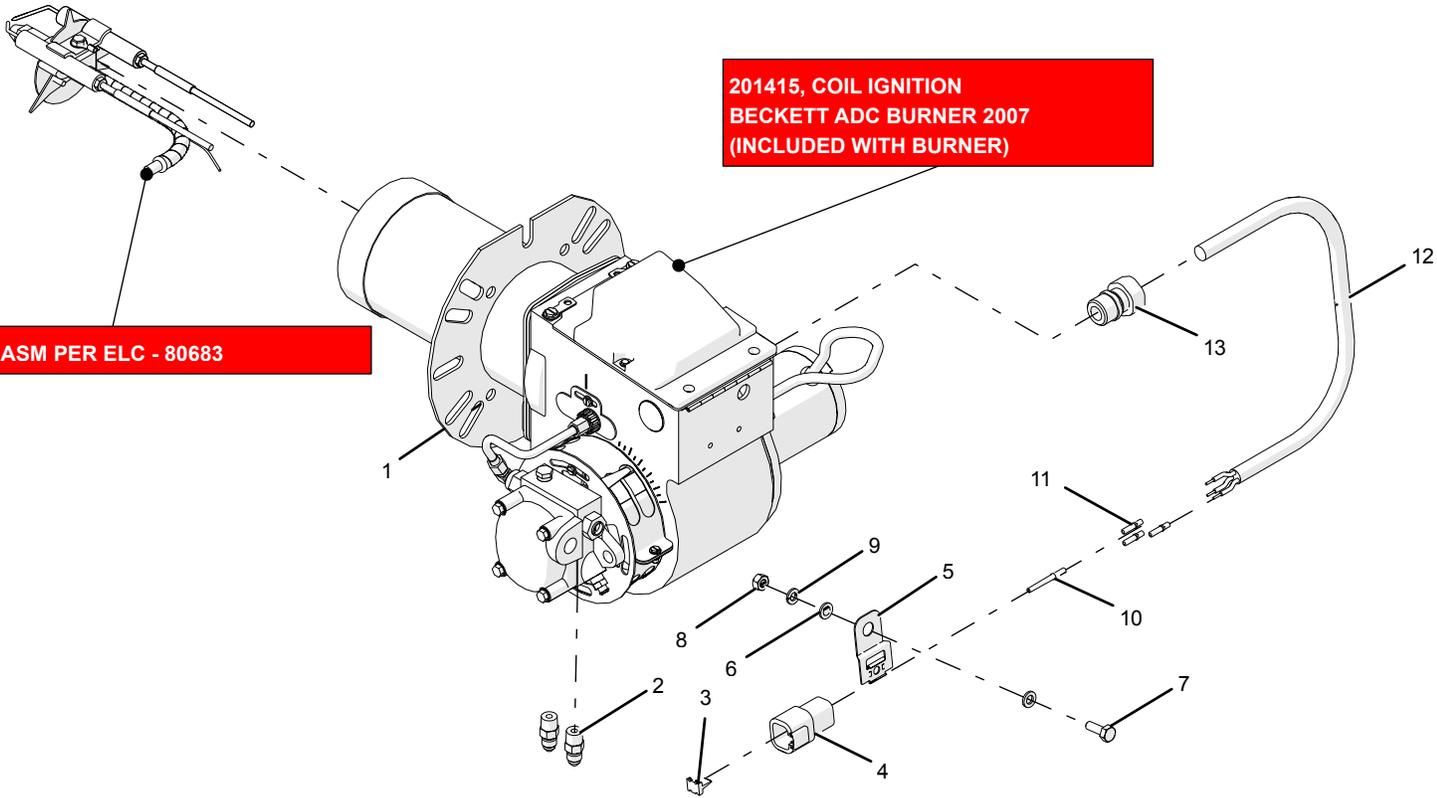


REF	PART NO	QTY	DESCRIPTION
1	221136	1	BURNER ASM CS250/400C
2	204657	1	THERMOCOUPLE CABLE ASM 3 IN LNG W-3 PIN CONN SP200 SPRAYBAR CS
3	MCH-80061	1	LEVER INDICATOR ASM 3 WAY VALVE CS
4	FAS-28634	4	WASHER USS FLAT GR5 ZINC .375 IN
5	FAS-28502	4	NUT HEX GR5 ZINC .375-16
6	FAS-28538	4	NUT STOVER LOCK GR8 ZINC .375-16
7	GRD-81180	1	HEAT SHIELD BURNER CS
8	MTR-80311	1	THERM HOT OIL 150-750F 65-399C 3IN DIAL



Burner Assembly - 250/400

221136



201415, COIL IGNITION
BECKETT ADC BURNER 2007
(INCLUDED WITH BURNER)

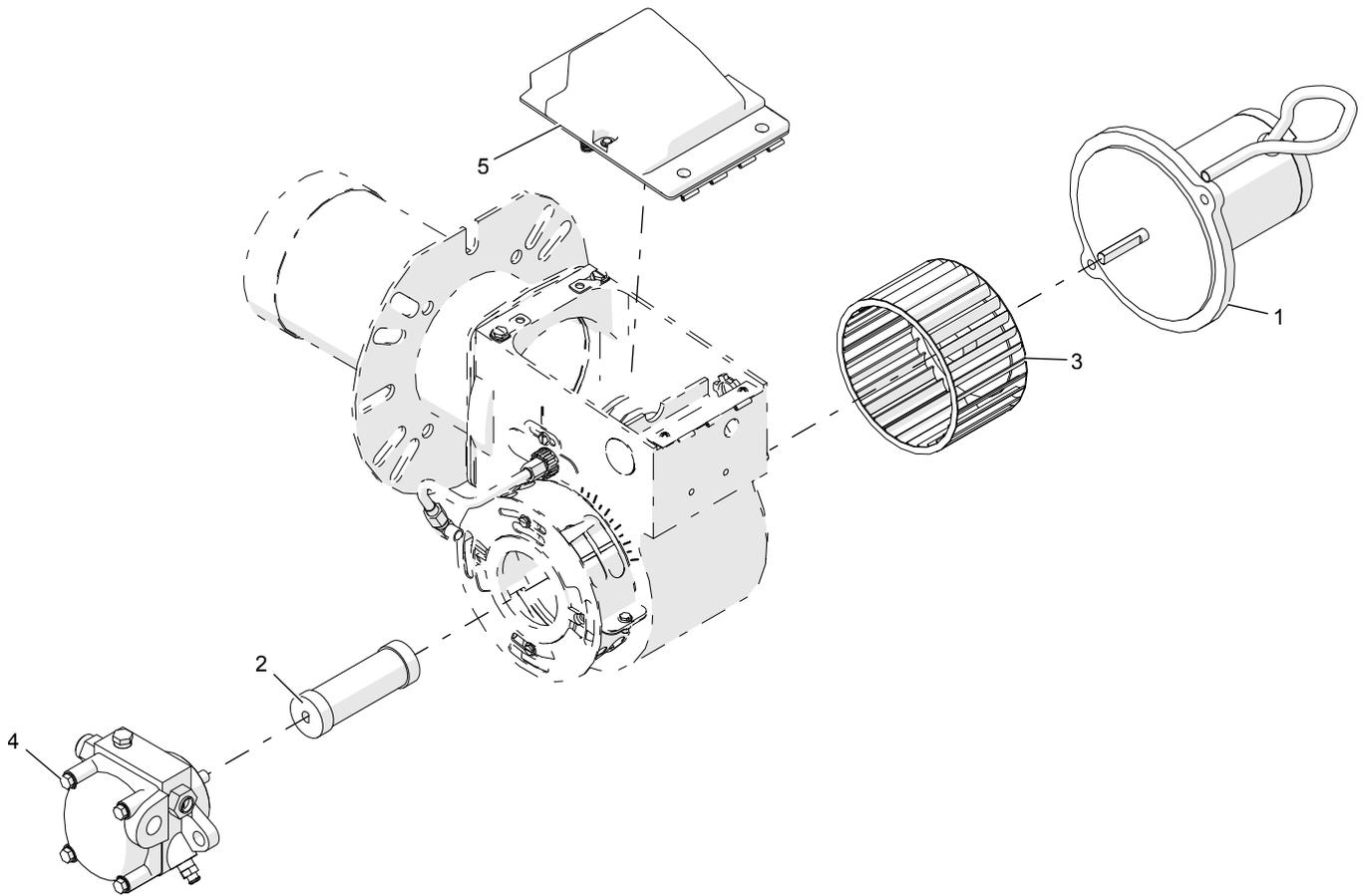
MODIFY GUN ASM PER ELC - 80683

REF	PART NO	QTY	DESCRIPTION
1	PTM-80685	1	BURNER BECKETT BURNER ADC (CS)
2	4MJ-4MP	2	C5205X4X4
3	220748	1	DEUTSCH DTP 4 PIN FEMALE WEDGE LOCK
4	220747	1	DEUTSCH DTP 4 PIN FEMALE FLANGED
5	221256	1	CLIP SIDE MOUNT BRACKET FOR DT/DTP CONNECTORS
6	209982	2	WASHER SAE FLAT ZINC .250 IN
7	FAS-28701	1	CAP SCR. HEX GR5 ZINC .250-20 X .750
8	FAS-28500	1	NUT HEX GR5 ZINC .250-20
9	FAS-28645	1	WASHER SPLIT LOCK GR5 ZINC .250 IN
10	220753	1	DEUTSCH DTP PLUG YELLOW
11	207999	3	SOCKET SIZE12 AWG12-14 25APMS FOR 88 PIN CONTROLER 38 PIN PLUG
12	221255	1	CABLE 4-CONDUCTOR 12 GA .480 OD 105 DEG X 24 IN LG BURNER CS250/400C
13	ELC-24420	1	CONNECTOR CORD GRIP .50 IN X 3/8 STRAIN RELIEF



Burner Beckett Burner ADC (CS)

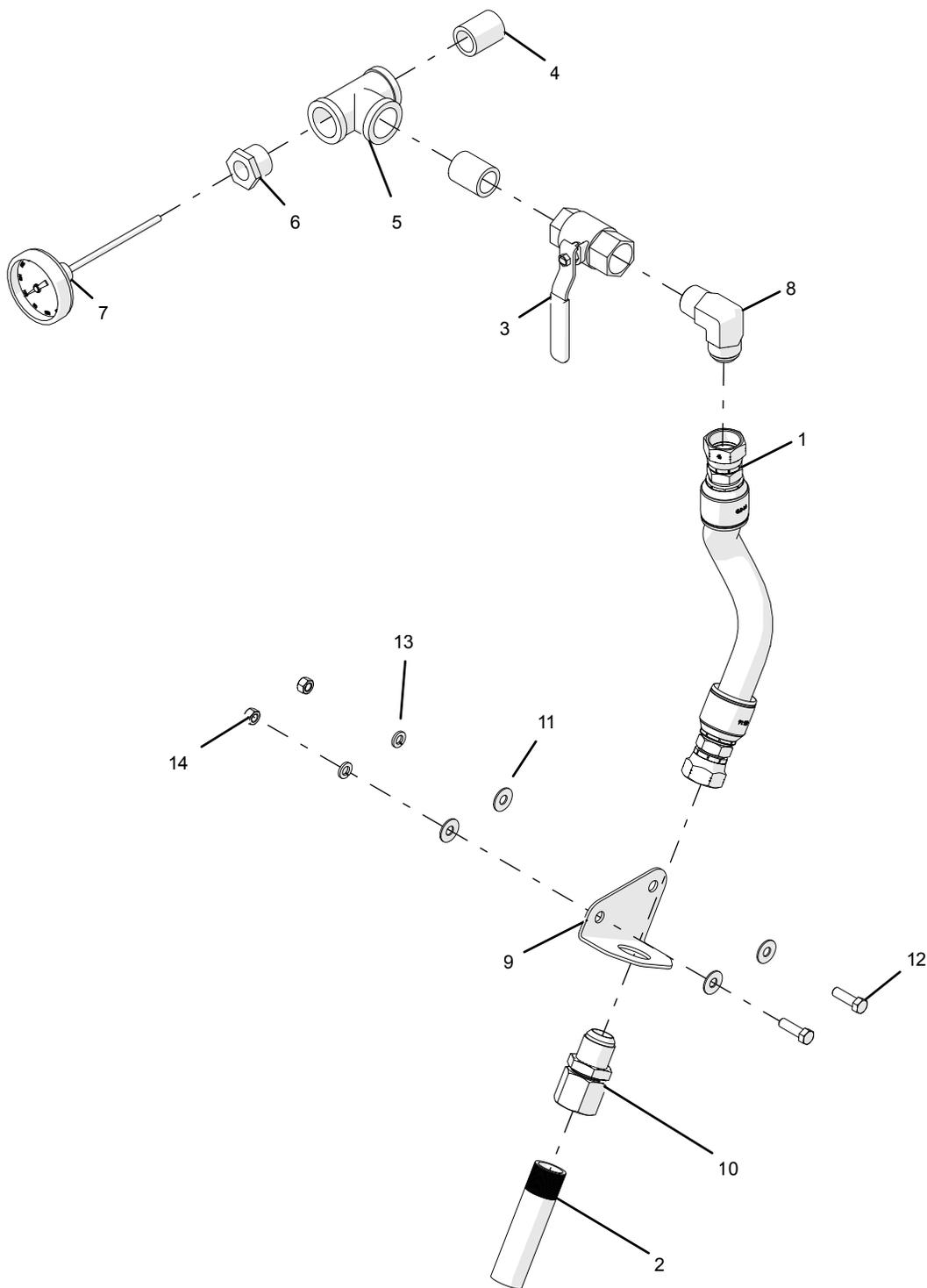
PTM-80685



REF	PART NO	QTY	DESCRIPTION
1	ELC-80689	1	MOTOR ELC 12V FOR ADC BURNER BAC101
2	208731	1	COUPLER DRIVE FOR ELEC ADC BURNER MOTOR ELC-80689 52145U
3	MCH-80690	1	BLOWER WHEEL FOR ADC (ECS) BURNER BAC101
4	PMP-81061	1	PUMP FUEL (ECS) MODI.B/ANGEL/BECKETT
5	201415	1	COIL IGNITION BECKETT ADC BURNER 2007

New Bucket Pour Spout - 250/400

220997



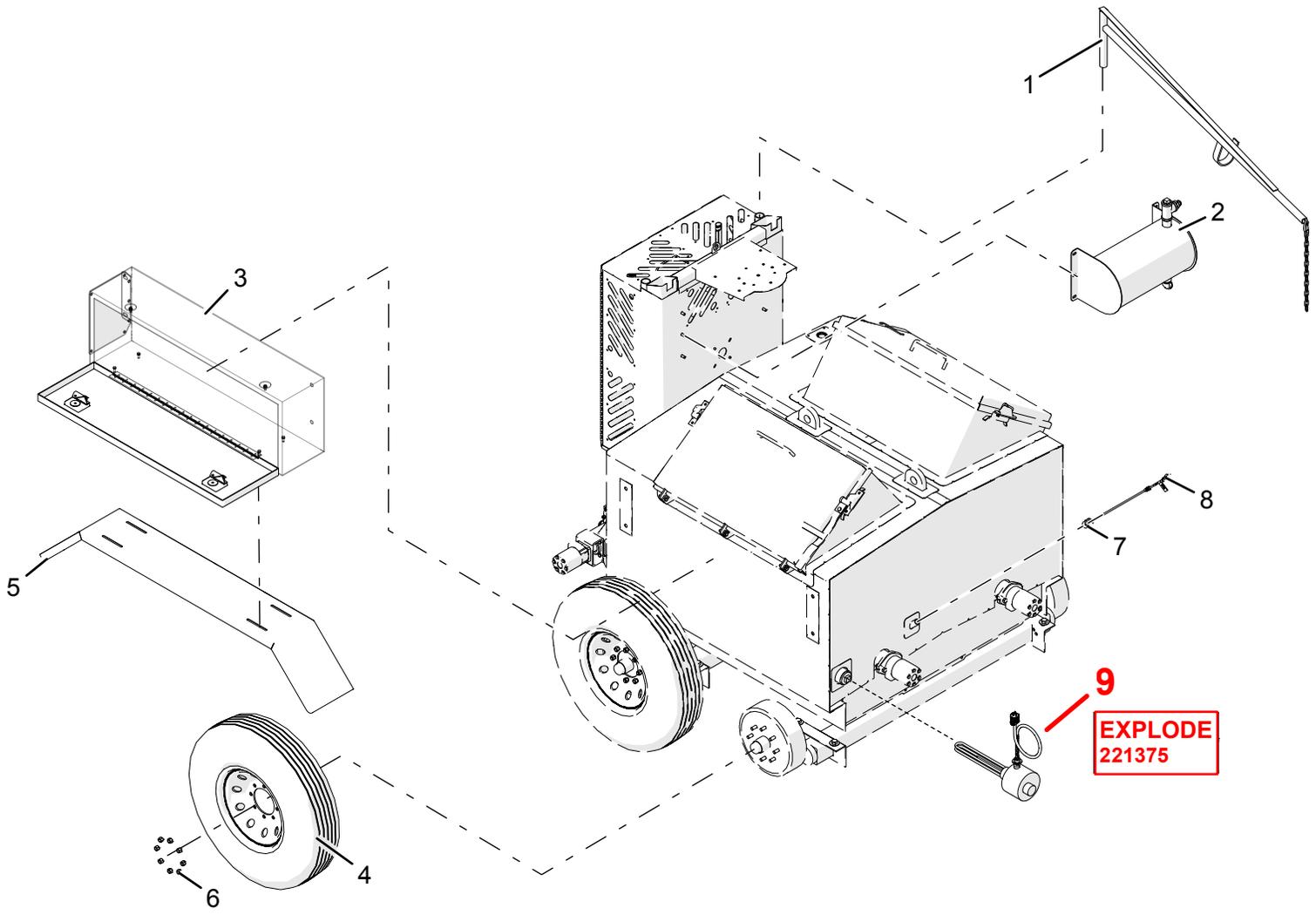
VIEW

REF	PART NO	QTY	DESCRIPTION
1	221122	1	HOSE FLX ASM S/S 1 IN X 15.5 IN LG 16FJX ENDS H.O. TANK
2	214384	1	MODIFIED NIPPLE 1" SCH 40 5 IN LONG
3	VLV-29240	1	VALVE BALL BRONZE S/S STEM 1 IN
4	FIT-28005	2	NIPPLE SCH. 80 CW 1 X CLOSE
5	FIT-28255	1	TEE PIPE MAL. 1.0 IN
6	FIT-28350	1	BUSHING PIPE MAL. HEX. 1 X .50
7	MTR-25232	1	TEMPERATURE DIAL GAUGE 50-550F 6 IN
8	90D16MJ-16MP	1	C5405X16
9	221266	1	MOUNT BULKHEAD BUCKET POUR SPOUT CS250/400C
10	16FP-16MJBH	1	2705LN-16-16
11	FAS-28634	4	WASHER USS FLAT GR5 ZINC .375 IN
12	FAS-28732	2	CAP SCR. HEX GR5 ZINC .375-16 X 1.250
13	FAS-28647	2	WASHER SPLIT LOCK GR5 ZINC .375 IN
14	FAS-28502	2	NUT HEX GR5 ZINC .375-16



VIEW - F

VIEW
F

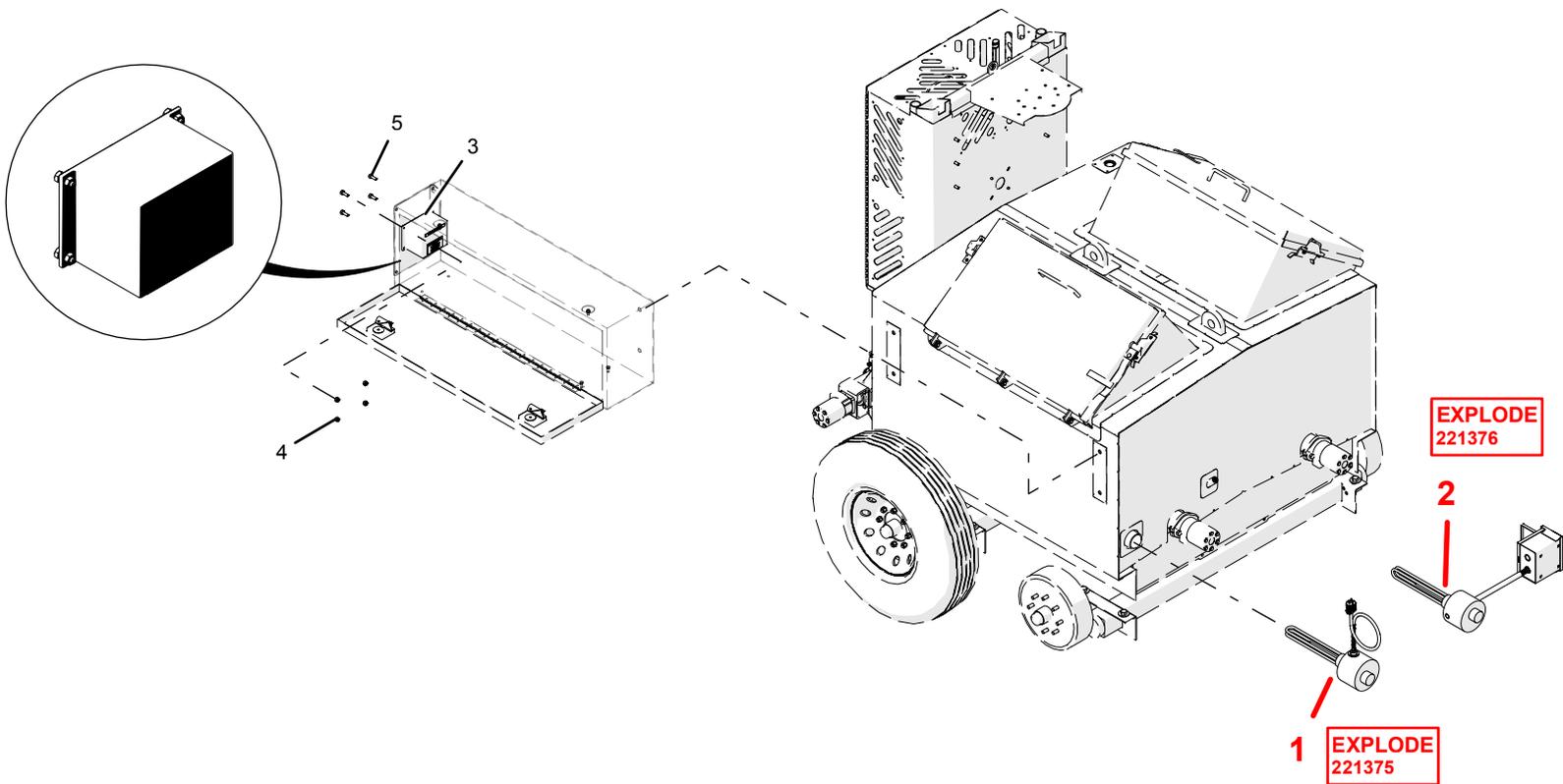


9
EXPLODE
221375

REF	PART NO	QTY	DESCRIPTION
1	BRK-80365	1	HOSE JIB CS
2	217698	1	TANK HOT OIL EXPANSION CS250/400C
3	220984	1	TOOLBOX ASM W/ HOSE CONTROL BOX MOUNT CS250C
4	MSC-80087	1	WHEEL AND TIRE ASM CS
5	221182	1	FENDER BOLT-ON CS250/400C
6	FAS-80148	8	NUT LUG (WHEEL) ECS/TOW BAR .50-20
7	FIT-28344	1	BUSHING PIPE MAL. HEX. .50 X .250 STEEL
8	204658	1	TEMP SENSOR ASM RTD TYPE 18"
9	221375	1	HEATER WITH PIGTAIL 120 VOLTS



Heater with Pigtail - 250/400



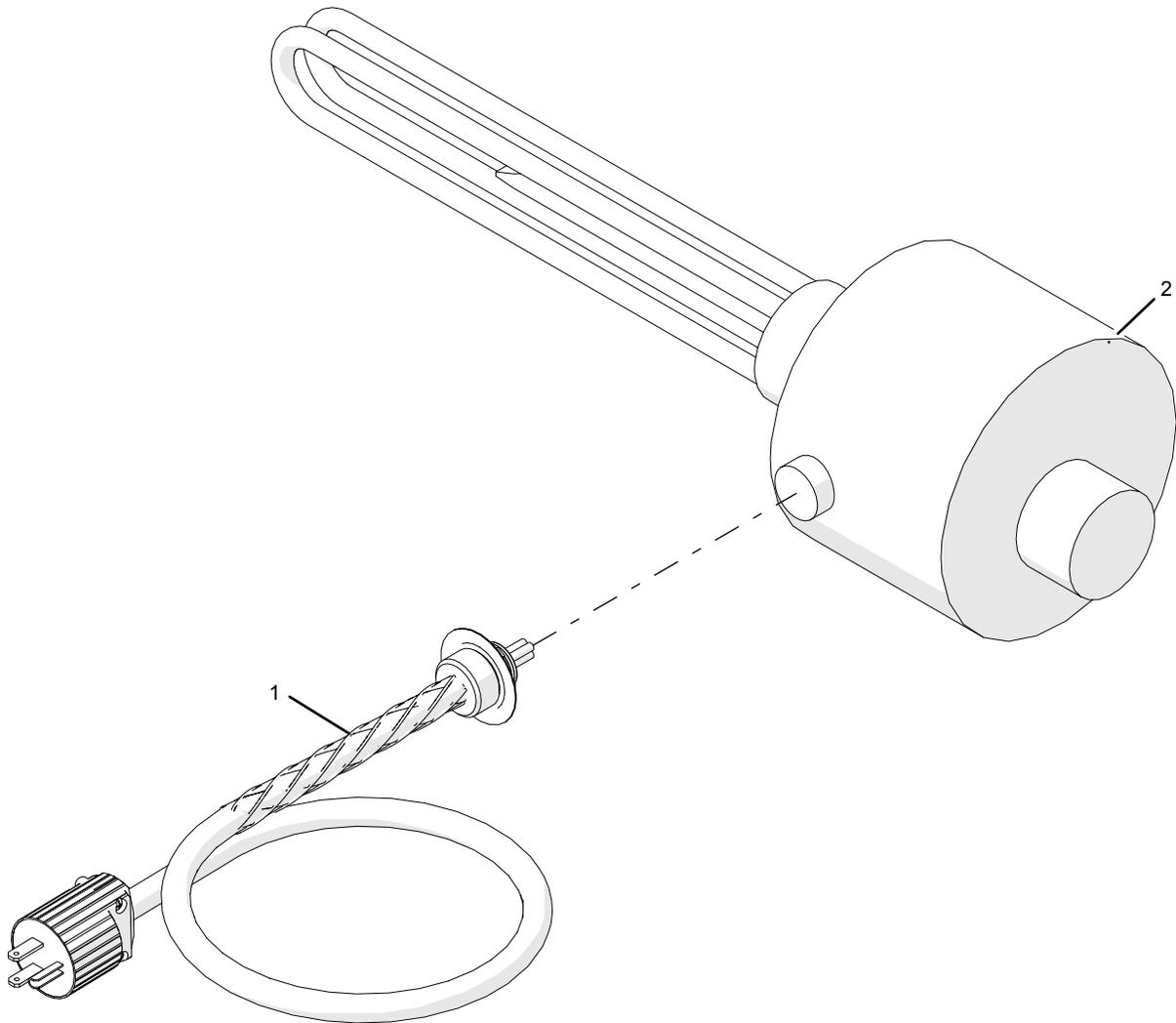
REF	PART NO	QTY	DESCRIPTION
1	221375	2	HEATER WITH PIGTAIL 120 VOLT CS
2	221376	2	HEATER WITH PIGTAIL 240 VOLT CS
3	218229	1	POWER VOLTAGE REGULATOR
4	FAS-28500	4	NUT HEX GR5 ZINC .250-20
5	FAS-28701	4	CAP SCR. HEX GR5 ZINC .250-20 X .750



Heater with Pigtail 120Volt

221375

V
I
E
W
F



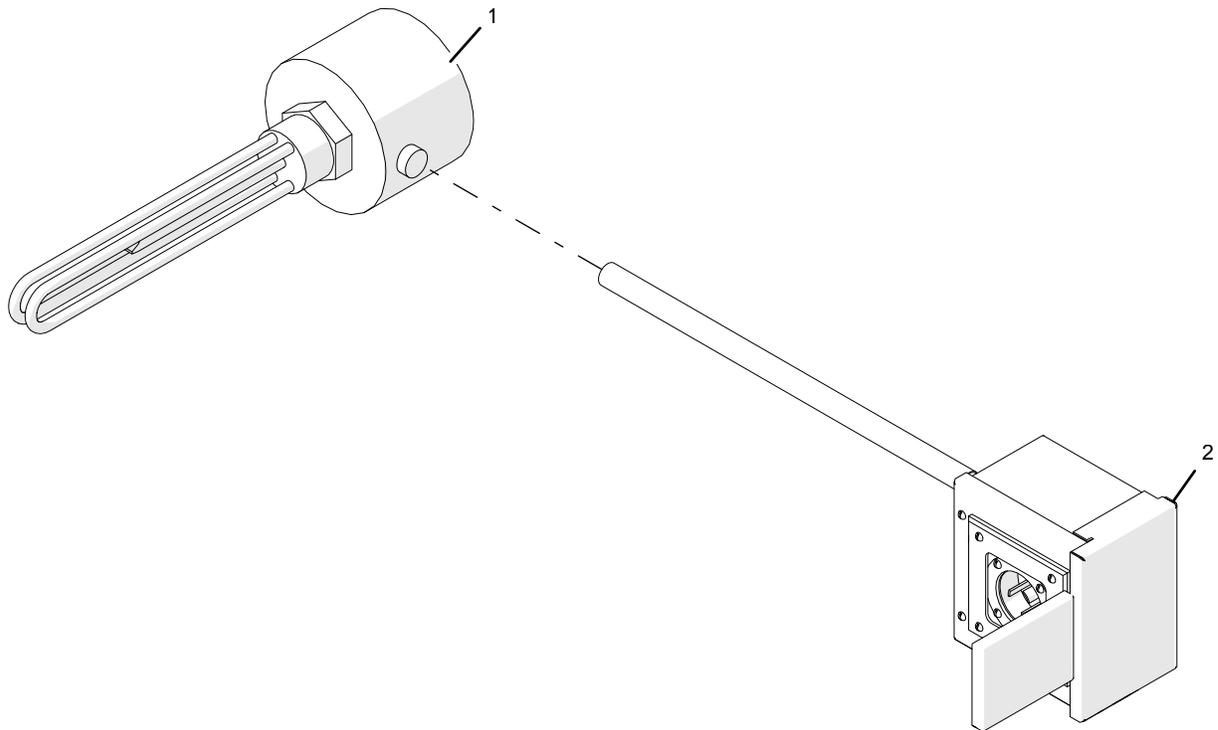
REF	PART NO	QTY	DESCRIPTION
1	ELC-80457	1	CORD PIGTAIL HEAT ELEMENT CS 120 V
2	ELC-80490	1	HEAT ELEMENT CS 120V



Heater with Pigtail 240 Volt

221376

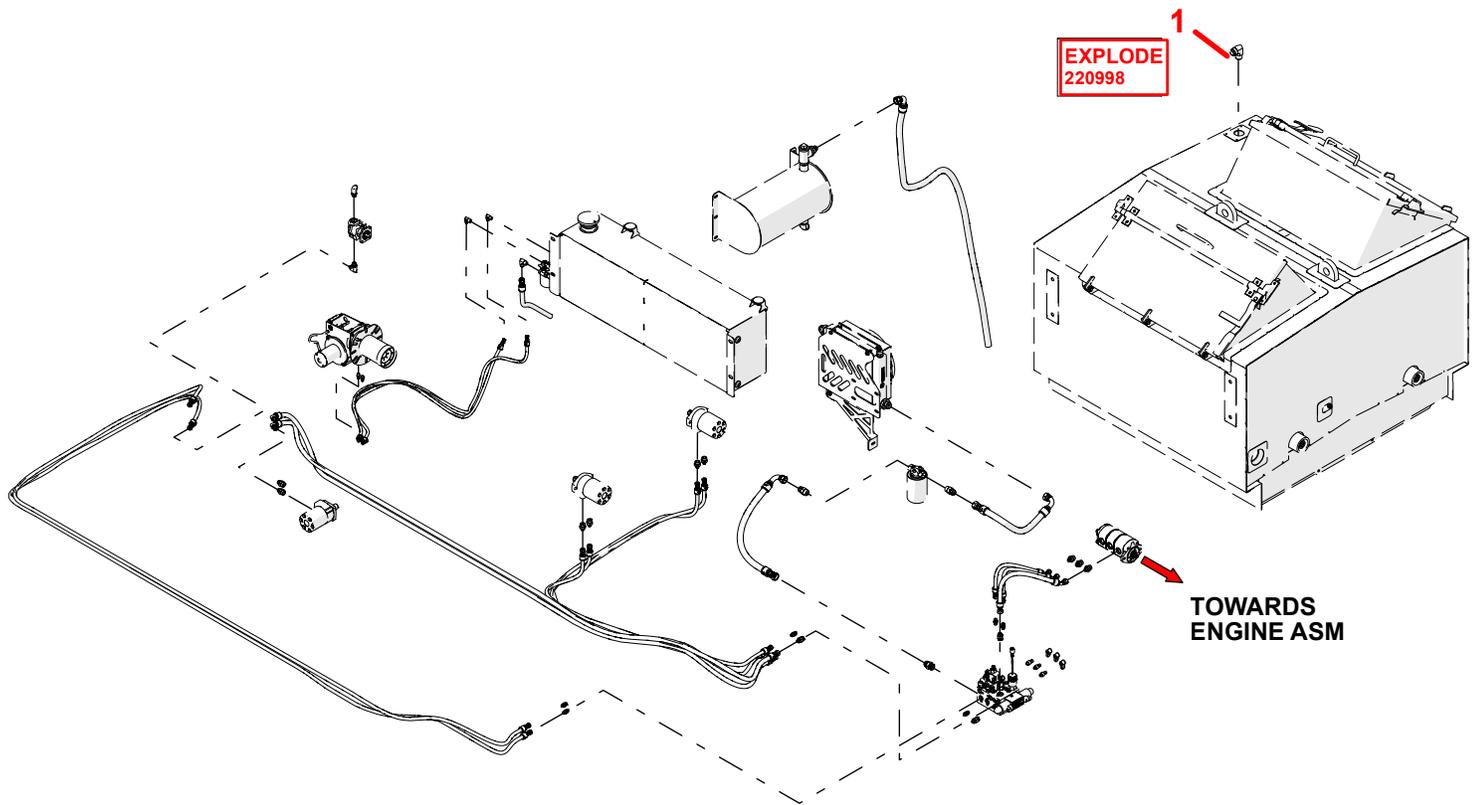
V
I
E
W
F



REF	PART NO	QTY	DESCRIPTION
1	ELC-80496	1	HEAT ELEMENT CS 240V (270588)
2	OPT-80449	1	BOX ELEC BOX ASM 220 V SNGL PHASE CHROMOLOX HEATER



V
I
E
W
G

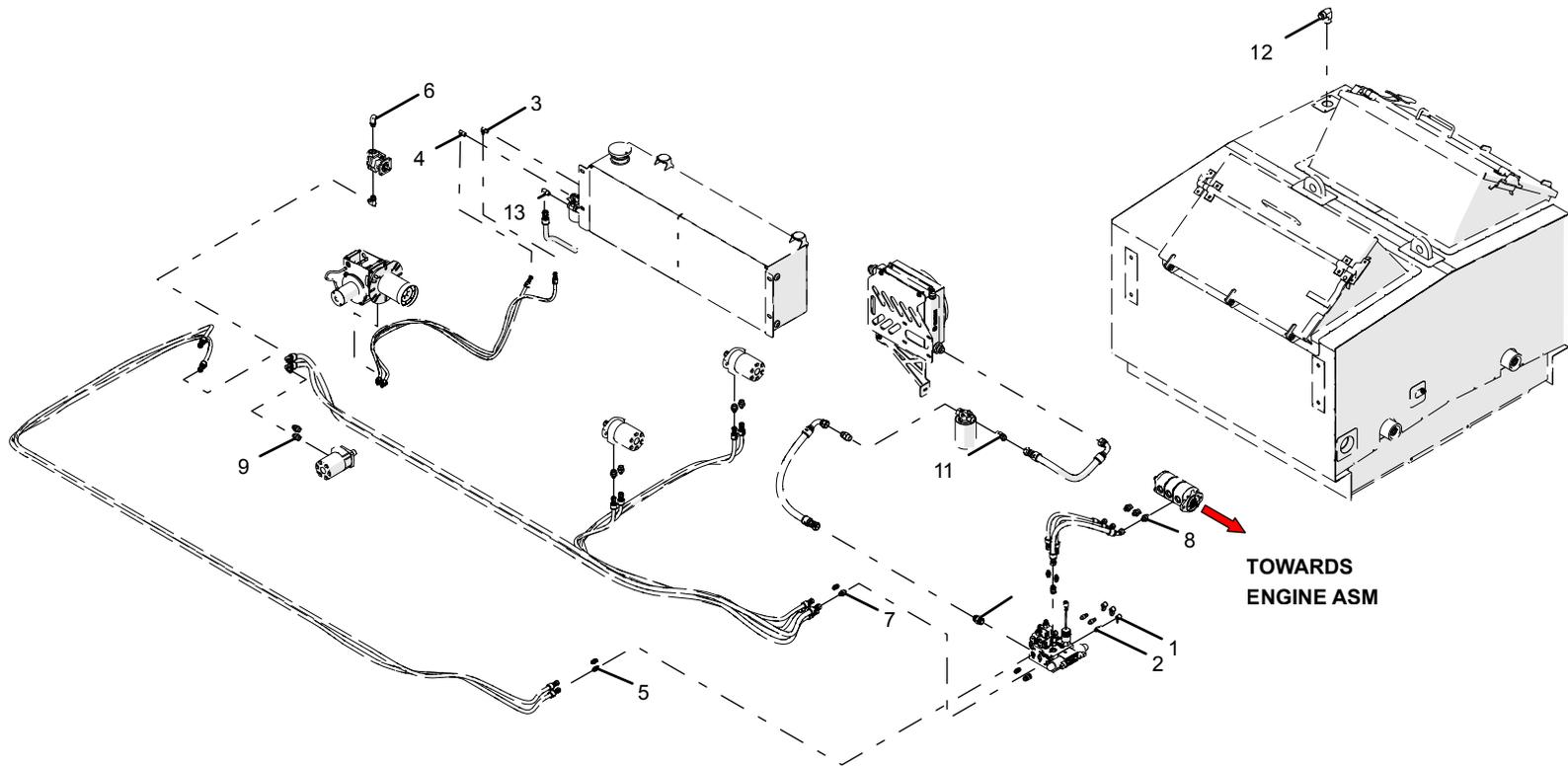


REF	PART NO	QTY	DESCRIPTION
1	220998	1	ADAPTER KIT CS250/400C



Adapter Kit 250/400

220998



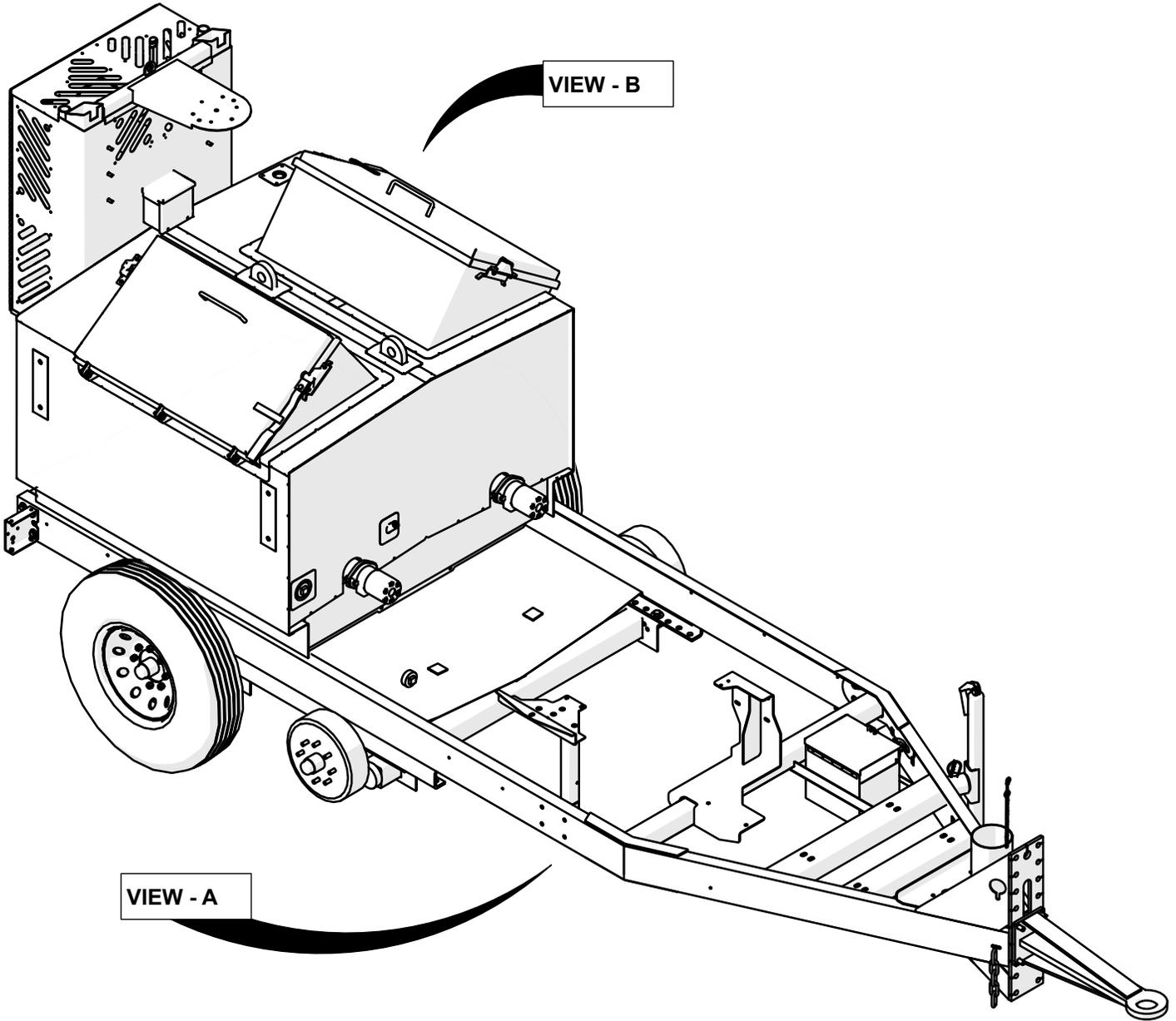
REF	PART NO	QTY	DESCRIPTION
1	FIT-53638	3	PD6 QUICK CPLR DUST CAP 1/8 BODY SZ TEST PLG
2	FIT-53637	3	PD341 QUICK CPLR 1/8 MLE PLUG 4MB TEST PORT
3	90D4MJ-4MP	1	C5405X4X4
4	90D4MJ-6MP	1	C5405X4X6
5	6MB-6MJ	6	C5315X6/6400-06-06
6	90D8MB-6MJ	2	6801X6X8
7	8MB-8MJ	3	C5315X8
8	10MB-6MJ	7	C5315X6X10
9	10MB-8MJ	2	C5315X8X10
10	12MB-12MJ	1	C5315X12
11	12MJ-12MP	2	C5205X12
12	90D16MJ-16MP	1	C5405X16
13	90D8MJ-6MP	1	C5405X8



Tank on Frame Asm - 250 Gal.

218075

T
A
N
K

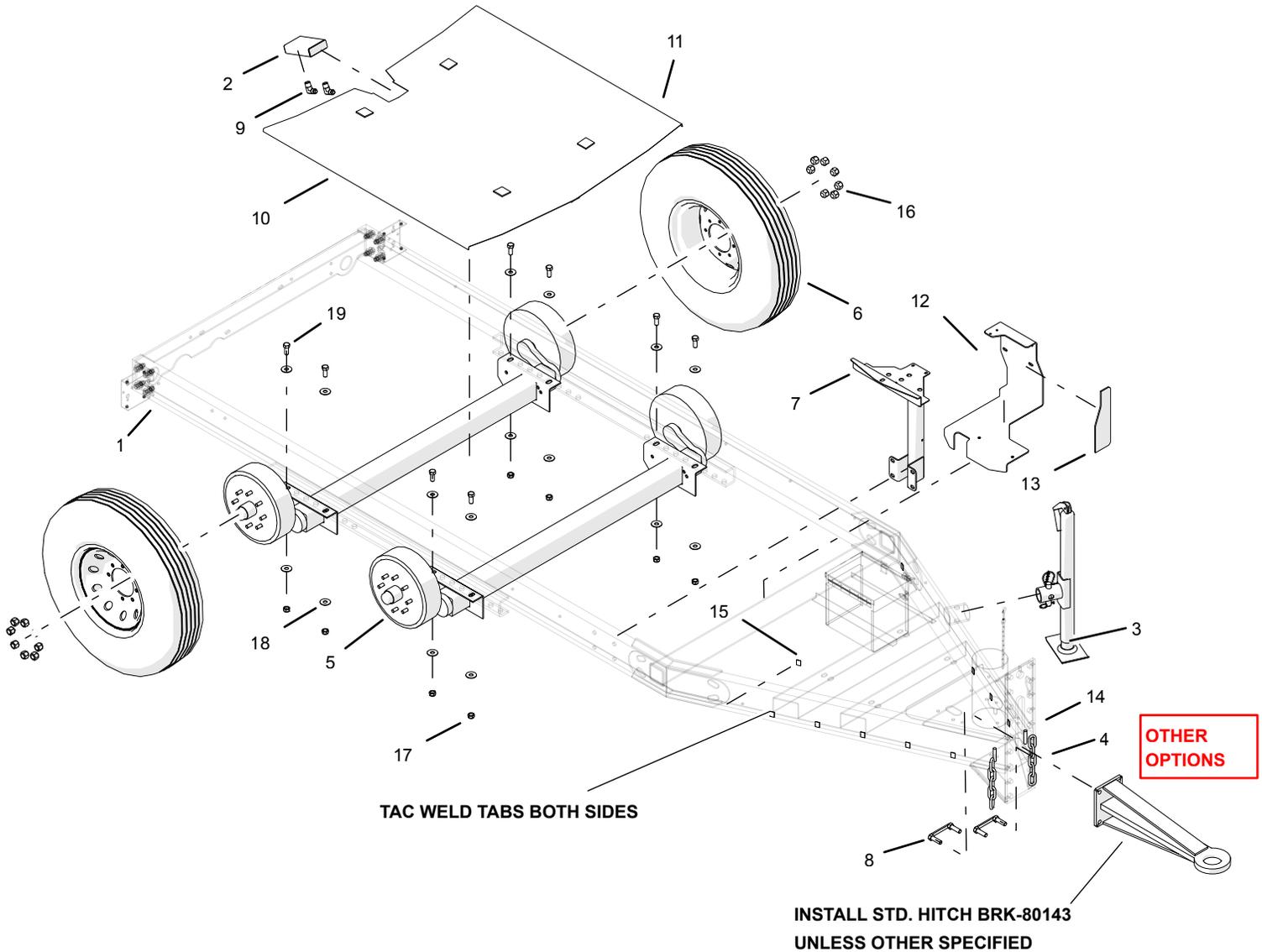




Tank on Frame Asm - 250 Gal.

VIEW - A

TANK

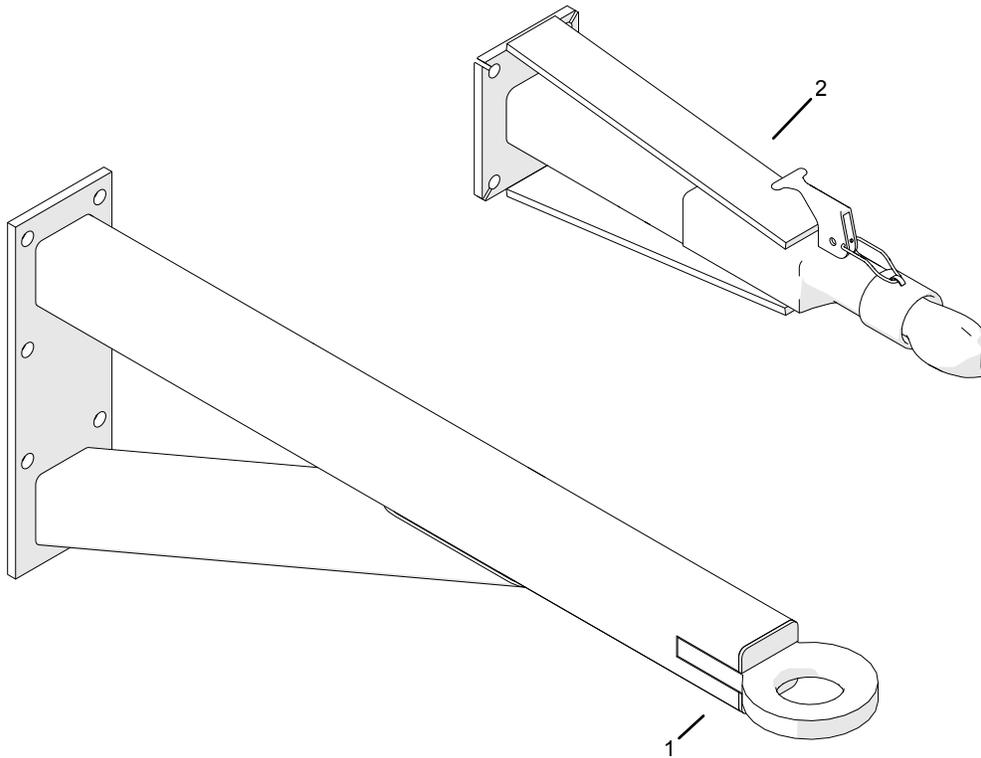


REF	PART NO	QTY	DESCRIPTION
1	218074	1	FRAME WDMT CS250/400C
2	217678	1	MANIFOLD WDMT 1.50 X 4.00 X 7.00
3	MCH-80104	1	JACK TONGUE SIDE 5000# (CS) SEE NOTES*
4	207333	2	SAFETY CHAIN ASSY
5	MCH-80087	2	AXLE RUBBER SUSP.7000# (ELC)250/400
6	MSC-80087	2	WHEEL AND TIRE ASM CS
7	218444	1	STAND WDMT CS CONTROL BOX CS400
8	FAS-80138	2	FRAME HITCH BOLT CS
9	90D6MJ-6MP	2	C5405X6
10	217675	1	SKIN BOT. RH W/ SUMP CUT-OUT 47 13/16" 250
11	217676	1	SKIN BOT. LH W/ SUMP CUT-OUT 47 13/16" 250

REF	PART NO	QTY	DESCRIPTION
12	221191	1	BASE HYO TANK AND HIC MOUNT CS250/400C
13	221192	1	SUPT. HYD TANK & HIC MNT 250/400
14	BRK-80106	2	MOUNT SAFETY CHAIN
15	BRK-80154	13	RETAINER TAB BRAKE LINE
16	FAS-80148	16	NUT LUG (WHEEL) CS/TOW BAR .50-20
17	FAS-28541	8	NUT STOVER LOCK GR8 ZINC .625-11
18	FAS-28637	16	WASHER USS FLAT GR5 ZINC .625 IN
19	FAS-28777A	8	CAP SCR. HEX GR8 ZINC .625-11 X 1.50
20	*****	2	HITCH OPTIONS



Trailer Hitch (OPTIONAL)



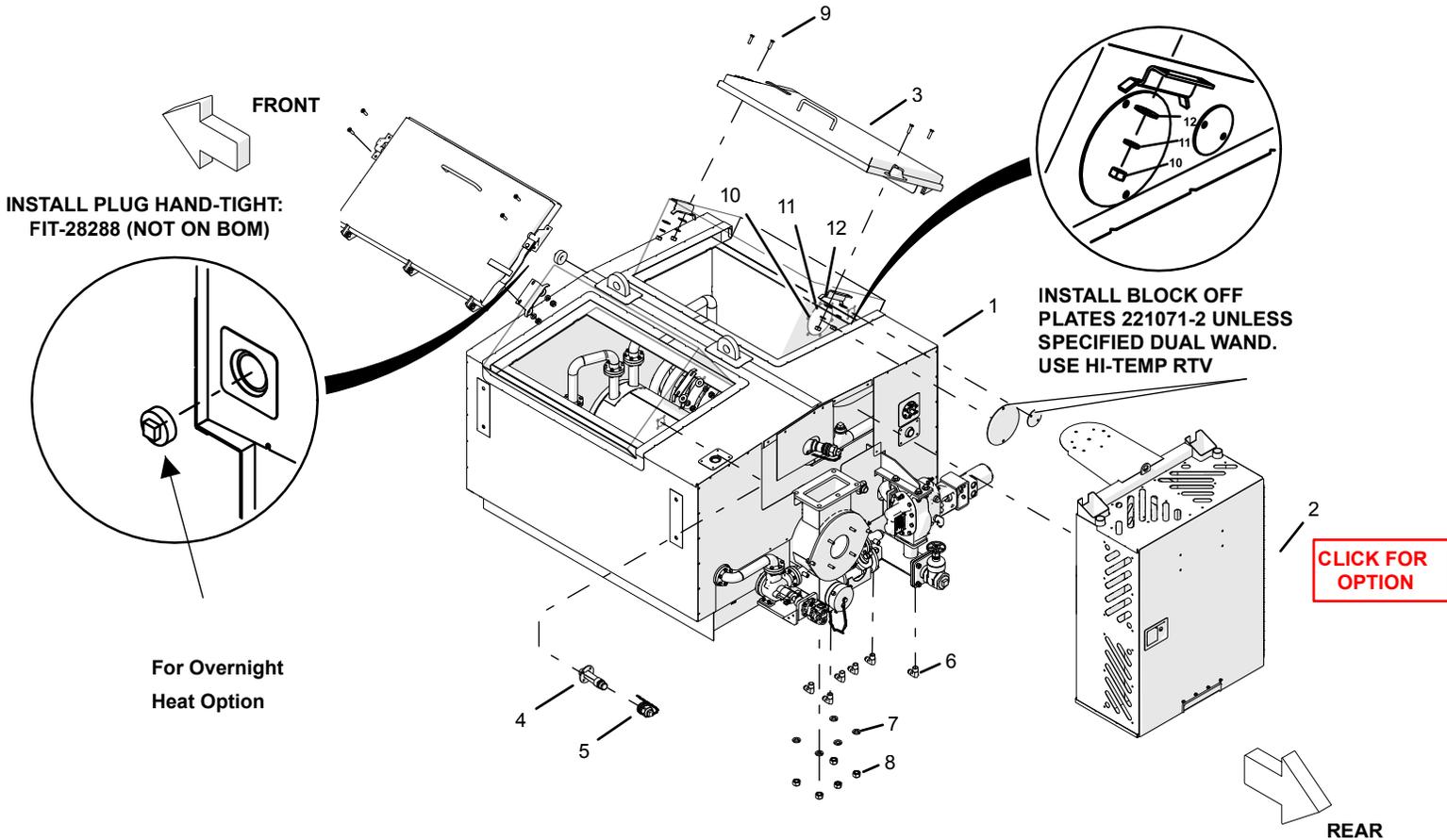
TANK

REF	PART NO	QTY	DESCRIPTION
1	221053	1	EXTENSION HITCH MAIN ASM
2	209724	1	HITCH ASM EXTENDED BULLDOG 2 5/16 BALL 4 BOLT



Tank on Frame Asm - 250 Gal.

VIEW - B

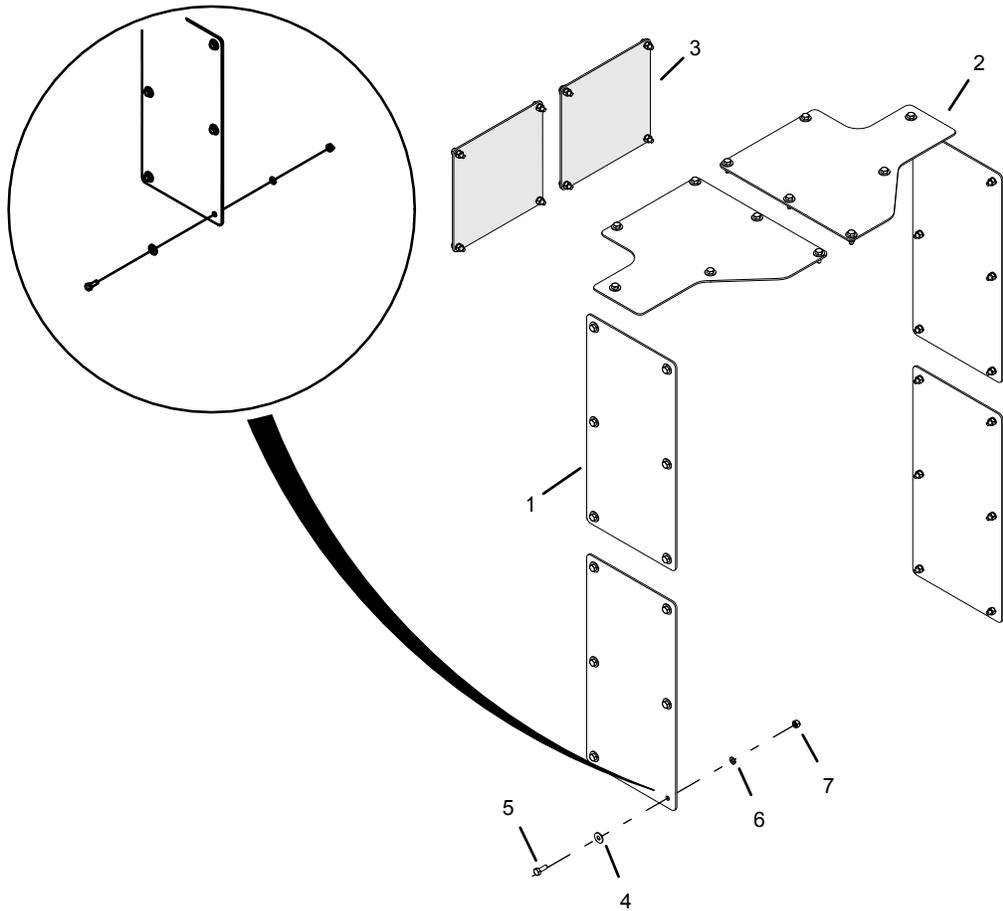
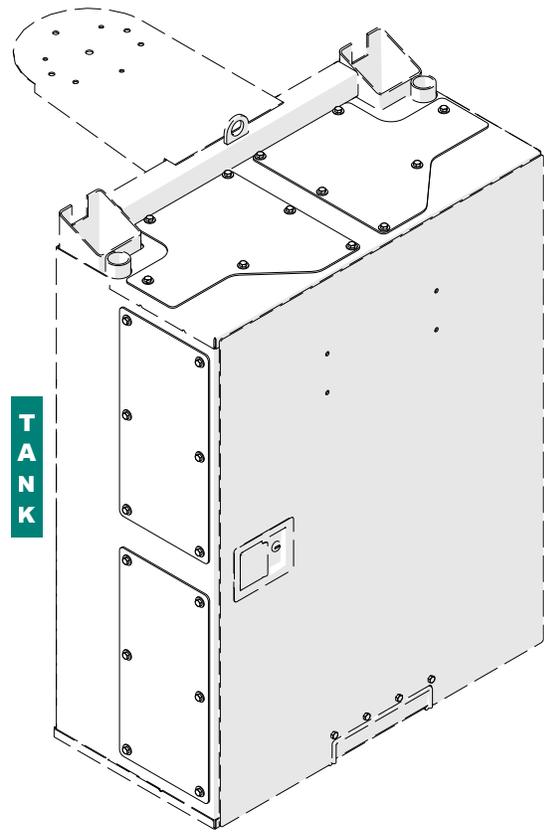


REF	PART NO	QTY	DESCRIPTION
1	220844	1	TANK WDMT & REAR PIPING ASM CS250C
2	218060	1	EXHAUST FLUE & HOSE BOX CS250/400C
3	HSG-79014	2	TANK LID ASM ROLL OVER CS250/400
4	218072	1	HAND WAND HOSE RECIRCULATE LINE ASM BOLT-ON
5	221167	1	END CAP 1 IN SWIVEL DISCONNECT ASM W/ CHAIN
6	90D6MJ-6MP	6	C5405X6
7	FAS-28649A	5	WASHER SPLIT LOCK GR8 ZINC .50 IN
8	FAS-28504A	5	NUT HEX GR8 ZINC .50-13
9	FAS-28702	8	CAP SCREW-HEX, GR5, ZINC, .250-20 X 1
10	FAS-28500	8	NUT HEX GR5 ZINC .250-20
11	FAS-28645	8	WASHER SPLIT LOCK GR5 ZINC .250 IN
12	FAS-28632	8	WASHER USS FLAT GR5 ZINC .250 IN



Hose Box Cover - 250/400 (OPTIONAL)

221342

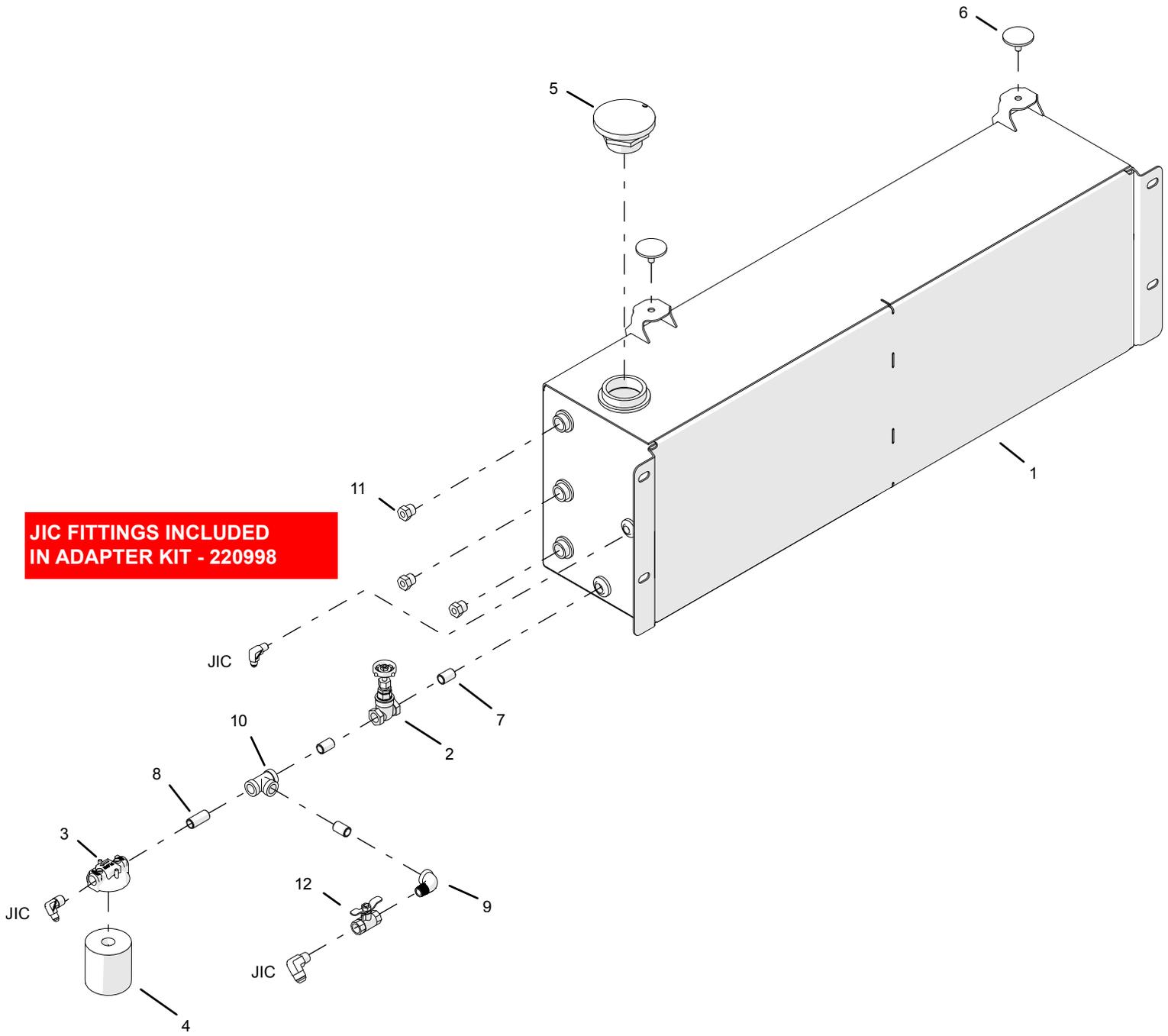


REF	PART NO	QTY	DESCRIPTION
1	221343	4	PLATE - SIDE COVER HOSE BOX OPTION CS 250/400
2	221344	2	PLATE - TOP COVER HOSE BOX OPTION CS 250/400
3	221345	2	PLATE - REAR COVER HOSE BOX OPTION CS 250/400
4	FAS-28632	44	WASHER USS FLAT GR5 ZINC .250 IN
5	FAS-28701	44	CAP SCR. HEX GR5 ZINC .250-20 X .750
6	FAS-28645	44	WASHER SPLIT LOCK GR5 ZINC .250 IN
7	FAS-28500	44	NUT HEX GR5 ZINC .250-20



Diesel Tank Asm - 250 Gal.

221184



**JIC FITTINGS INCLUDED
IN ADAPTER KIT - 220998**

TANK

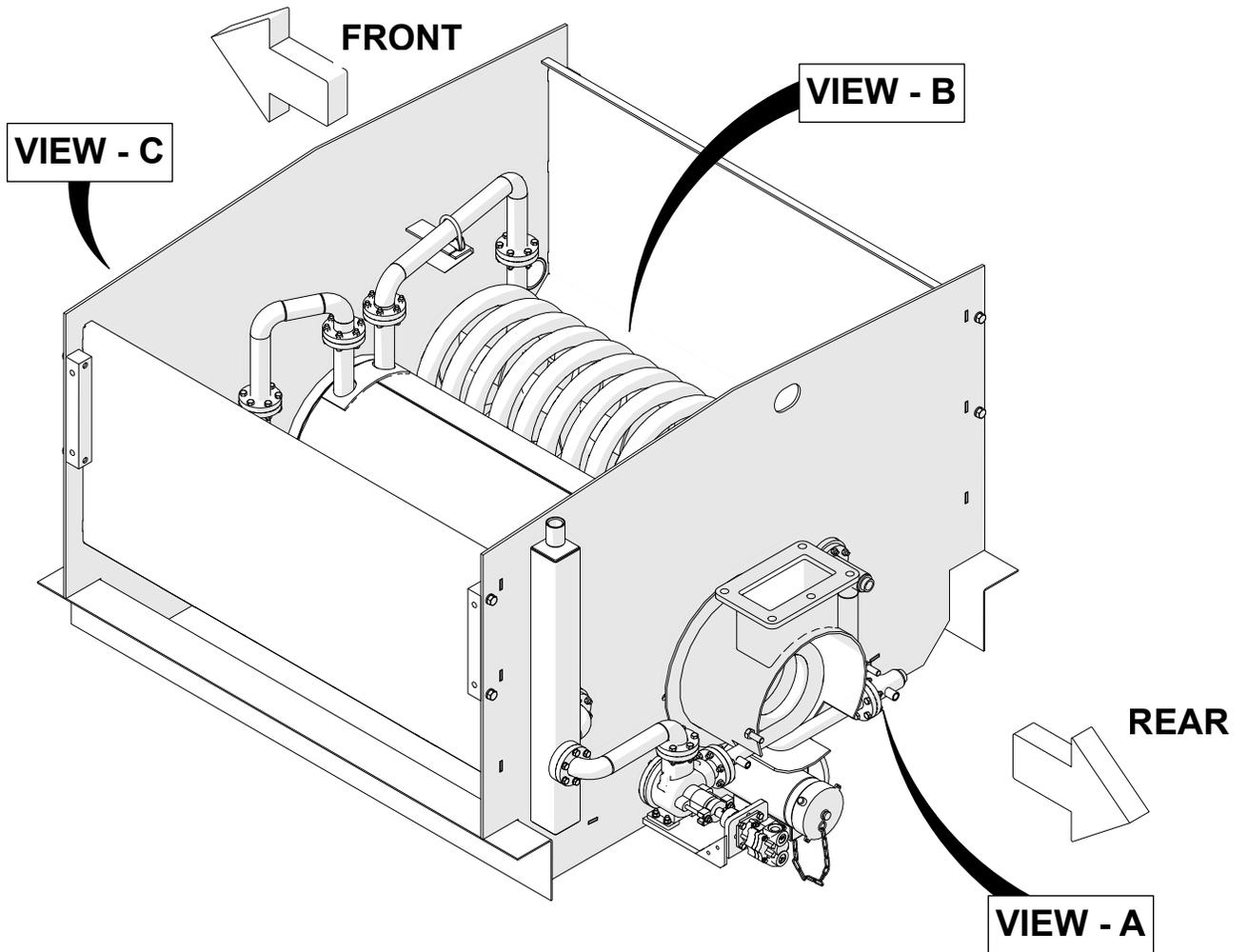
REF	PART NO	QTY	DESCRIPTION
1	221183	1	TANK WDMT DIESEL CS250C
2	VLV-29206	1	VALVE GATE .375 IN
3	217357	1	3/8" NPTF PORTS W/ RETURN LINE, SPIN-ON FUEL FILTER HEAD
4	217358	1	10 MICRON FUEL FILTER FOR 217357
5	218800	1	CAP FUEL VENTED W/THREADED NECK CS FUEL TANKS 2020
6	221231	2	BUMP STOP CS TANK LID BLACK .375 X 2 IN DIA
7	FIT-28002	3	NIPPLE SCH. 80 CW .375 X CLOSE
8	FIT-28013	1	NIPPLE SCH. 40 CW .375 X 1.5
9	FIT-28237	1	ELBOW STREET MAL 90DEG .375 IN
10	FIT-28252	1	TEE PIPE MAL .375 IN
11	MTR-80270	3	GAUGE SIGHT
12	VLV-29203	1	VALVE BALL (BRONZE) .375 TEE HANDLE
JIC			JIC FITTINGS



Tank Weldment - 250 Gal.

220843

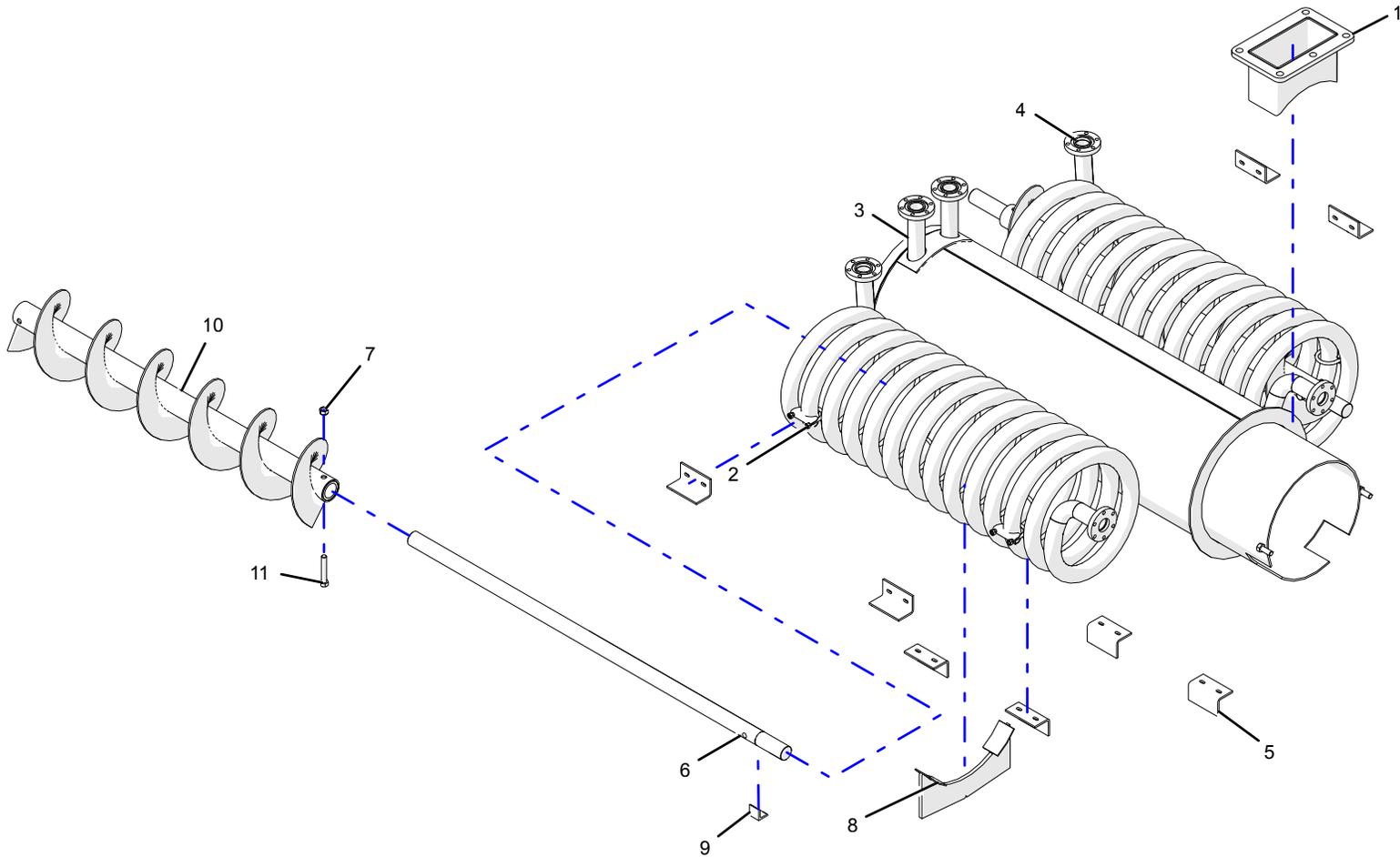
TANK WELDMENT





Tank Weldment - 250 Gal.

VIEW - A



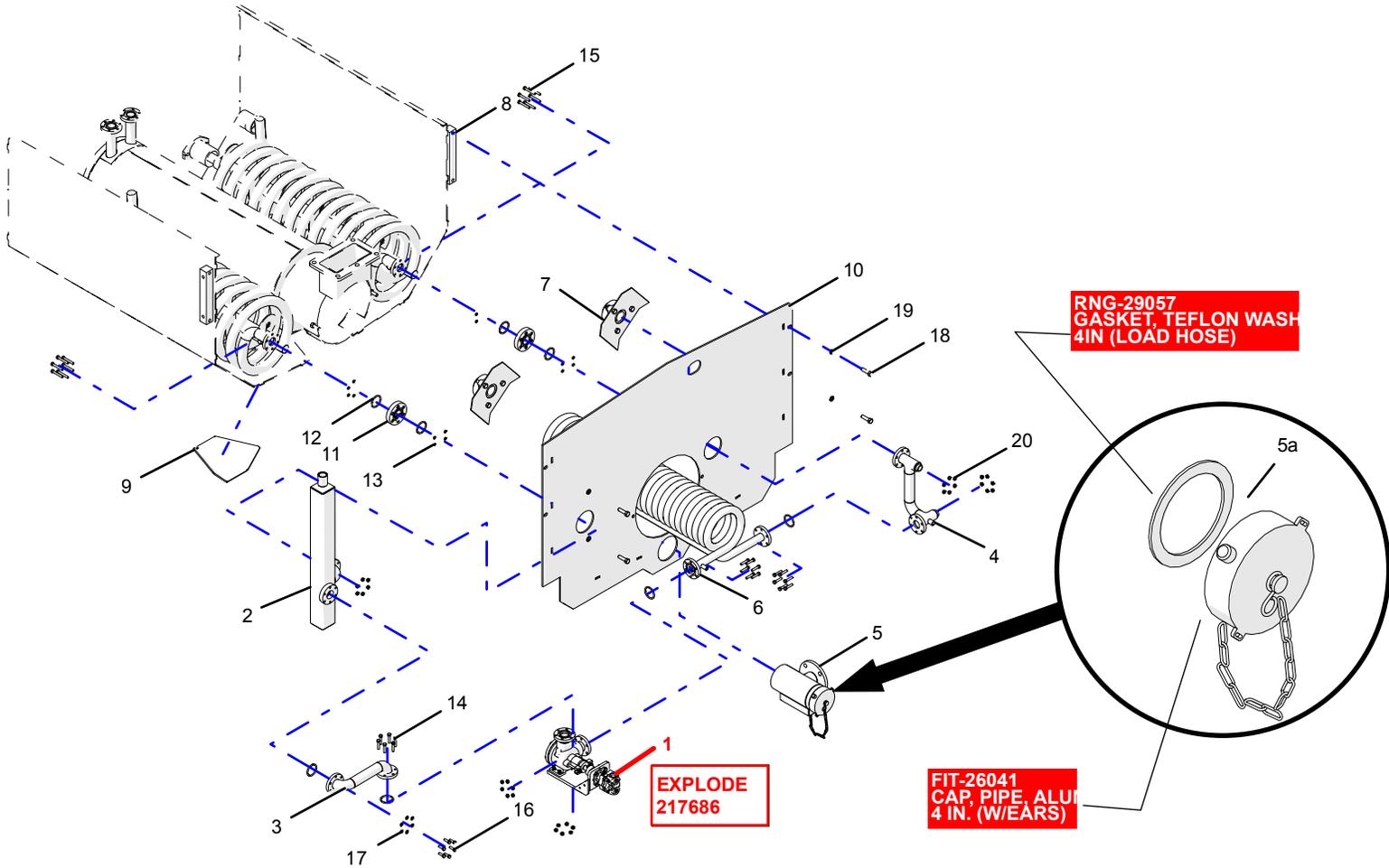
TANK WELDMENT

REF ID	PART NO	QTY	DESCRIPTION
1	221332	1	WDMT EXHAUST STACK RISER CS250C/CS400C
2	FAS-29363	8	CLAMP MUFFLER 1.75IN
3	HSG-71209	1	FLUE ASM ECS HEAT FLUE DOMED HD (ORNG FLANGE)
4	MSC-71207	2	COILING O-RING PROD. TANK 250 ECS
5	BRK-80382	8	TANK COILING SUPPORT
6	PTM-80345	2	AUGER SHAFT 250 ECS (MANUF)**
7	FAS-28540	2	NUT STOVER LOCK GR8 ZINC .500-13
8	223021	1	FLUE SUPPORT WDMT ECS
9	212836	2	ANGLE H.R. STRUCT.A36 .088 X 1.25 X 1.25 X 1.25 IN LG
10	MCH-80344	2	AUGER 8 IN X 42 IN W/1.563 IN DIA 125/250
11	FAS-28766	2	CAP SCR. HEX GR5 ZINC .50-13 X 3



Tank Weldment - 250 Gal.

VIEW - B



REF	PART NO	QTY	Description
1	217686	1	HOT OIL PUMP & MOTOR ASM O-RNG FLG CS250/400C
2	217680	1	HOT OIL RETURN AIR ELIMINATOR ASM CS250/400C
3	217679	1	PIPING INNER COIL TO HOT OIL RETURN SUCT.ASM BC400C
4	217696	1	COILING SUPPLY LINE O-RING CS250/400C
5	220784	1	PIPE SUMP ASM CS250/400C
5a	FIT-26037	1	PIPE CAP 4 IN ALUM. W/ EARS + CHAIN HO
6	221158	1	COILING ASM HEAT FLUE W/ HO PORT BC250/400C
7	BRK-80339	2	BEARING PLATE 3-BOLT ASM W/BRG 99/NEWER
8	217658	2	MOUNT THREADED SIDE TANKS CS400C
9	217659	1	SUMP TANK WDMT CS250/400C
10	220849	1	HEAD REAR TANK WDMT CS250/400C

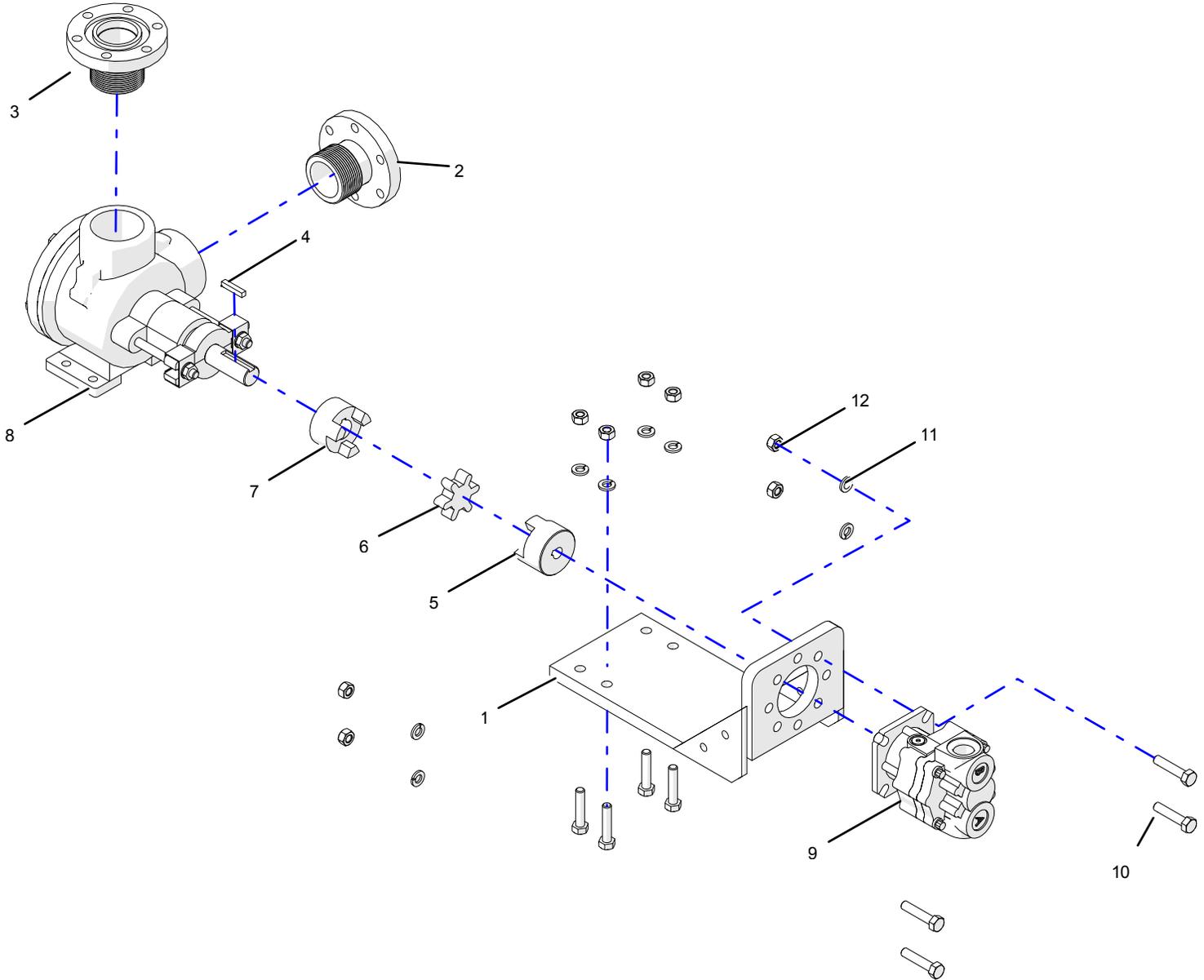
REF	PART NO	QTY	Description
11	FIT-71022	2	FLANGE DBL O-RING GROOVE BULKHEAD(KRKR)
12	RNG-71032	8	O-RING VITN 2-328 1.88IDX2.25ODX.188(HT)
13	RNG-71031	24	O-RING VITON 2-109.313IDX.50DX.094(HT)
14	FAS-28868A	18	CAP SCR HEX GR8 .313-24 X 1.50
15	FAS-28871A	12	CAP SCR HEX GR8 ZINC .313-24 X 2.250
16	FAS-28716A	6	CAP SCR. HEX GR8 ZINC .313-18 X 1
17	FAS-28646	6	WASHER SPLIT LOCK GR5 ZINC .313 IN
18	FAS-28763A	4	CAP SCR. HEX GR8 PLN. .50-13 X 1.750
19	FAS-28649A	4	WASHER SPLIT LOCK GR8 ZINC .50 IN
20	FAS-28597	30	NUT STOVER LOCK GR8 ZINC .313-24



Hot Oil Pump & Motor Asm Orng

217686

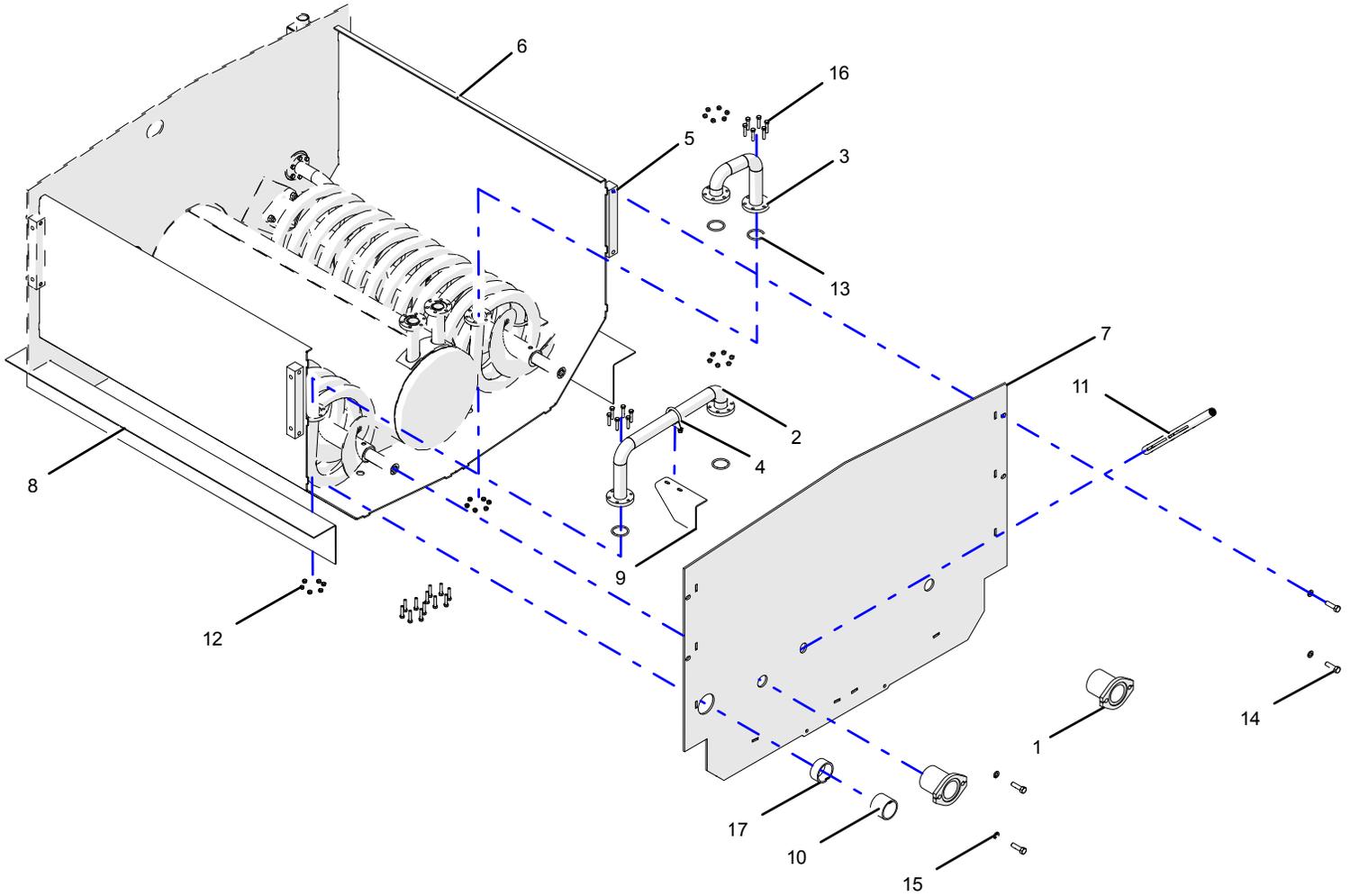
TANK WELDMENT



REF	PART NO	QTY	Qty	Description
1	200960	1	1	MNT WDMT HOT OIL PUMP & MOTOR ASM
2	207236	1	1	HOT OIL PMP OUTLET W/OUT O-RNG GRV
3	MSC-71036	1	1	HOT OIL PMP OUTLET ADAPTER (ORNG FLGS)ECS
4	222253	1	1	SHAFT KEY STOCK .19 X .19 X 1
5	FIT-80055	1	1	COUPLING ML075X7/16 MARTIN JAW COUPLI
6	FIT-80057	1	1	COUPLING SRL075 MARTIN (BUNA-N SPIDER)
7	FIT-80070	1	1	COUPLING ML075X3/4 IN MARTIN JAW COUPLIN
8	PMP-80295	1	1	PUMP VIKING HOT OIL PUMP
8a	→RNG-80297	1	1	PACKING-6 RING, 0.75" X 1.25" X 0.25"
9	PMP-80990	1	1	MOTOR PARKER HYD HOT OIL PUMP
9a	→217301	1	1	SEAL
10	FAS-28718	8	8	CAP SCR. HEX GR5 ZINC .313-18 X 1.50
11	FAS-28646	8	8	WASHER SPLIT LOCK GR5 ZINC .313 IN
12	FAS-28501	8	8	NUT HEX GR5 ZINC .313-18



Tank Weldment - 250 Gal. VIEW C



TANK WELDMENT

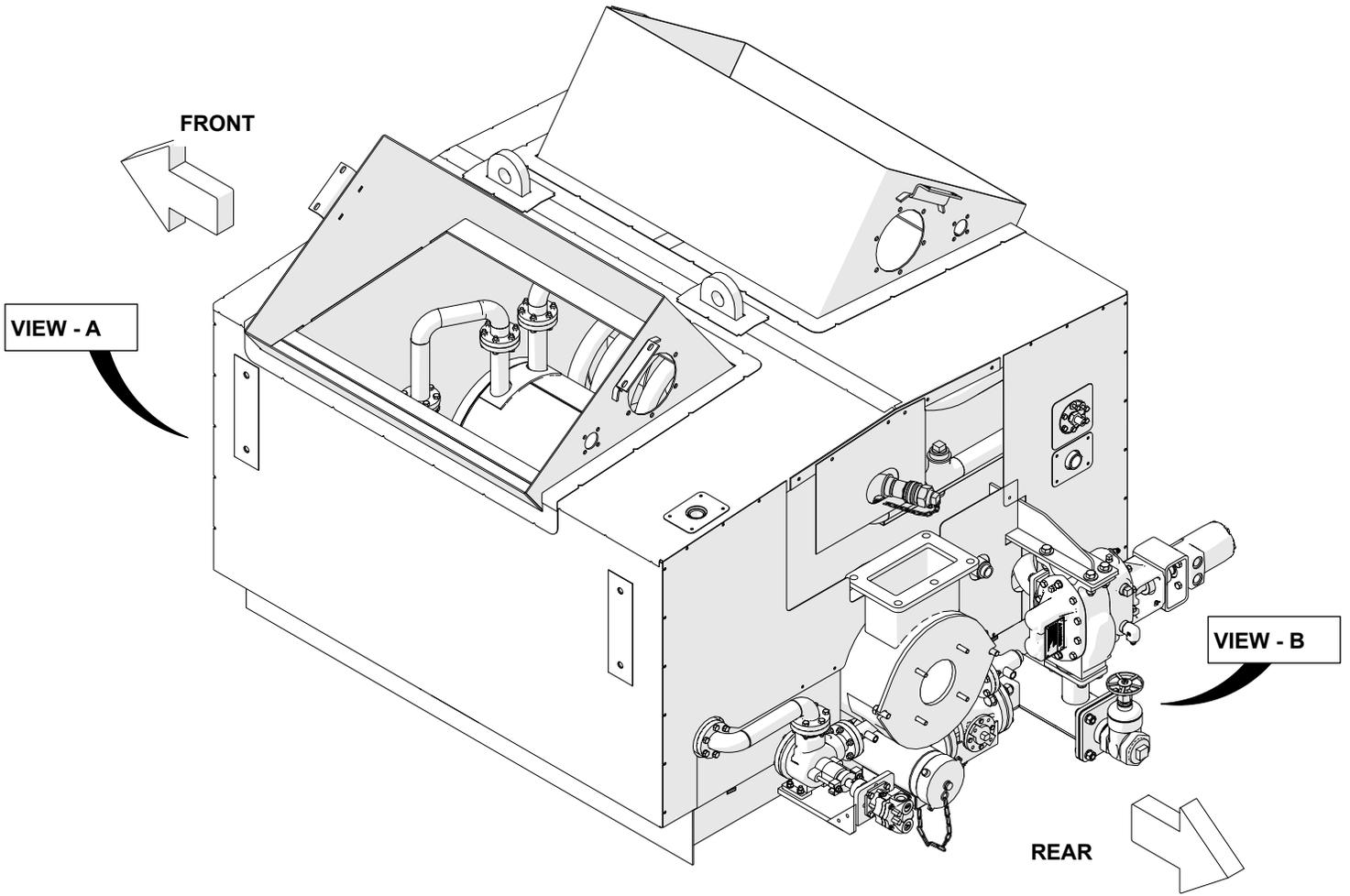
REF ID	PART NO	QTY	DESCRIPTION
1	HSG-80342	2	SHAFT PACKING WDMT ASM
2	MSC-71214	1	LINE CROSS OVER O-RING
3	MSC-71215	1	FEED LINE CROSS OVER O-RING
4	FAS-29363	1	CLAMP MUFFLER 1.75 IN
5	217658	2	MOUNT THREADED SIDE TANKS CS400C
6	220847	1	SHELL TANK WDMT CS250C
7	220848	1	HEAD FRONT TANK WDMT CS250/400C
8	220851	2	SUPPORT BASE TO FRAME TANK WDMT CS250C
9	BRK-80383	1	SUPPORT - FRONT COILING CROSSOVER PIPE - ECS250
10	FIT-28183	1	COUPLING MERCH. STEEL 2.00 IN
11	HSG-80204	1	THERMOCOUPLE WELL
12	FAS-28597	24	NUT STOVER LOCK GR8 ZINC .313-24
13	RNG-71032	4	O-RING VITN 2-328 1.88IDX2.25ODX.188(HT)
14	FAS-28763A	4	CAP SCR. HEX GR8 PLN. .50-13 X 1.750
15	FAS-28649A	4	WASHER SPLIT LOCK GR8 ZINC .50 IN
16	FAS-28868A	24	CAP SCR HEX GR8 .313-24 X 1.50
17	208628	1	PIPE SCH40 CW AJ3 2.5 x 1.25" LONG



Tank Wdmt & Rear Piping Asm CS250C

220844

TANK
WELDMNT



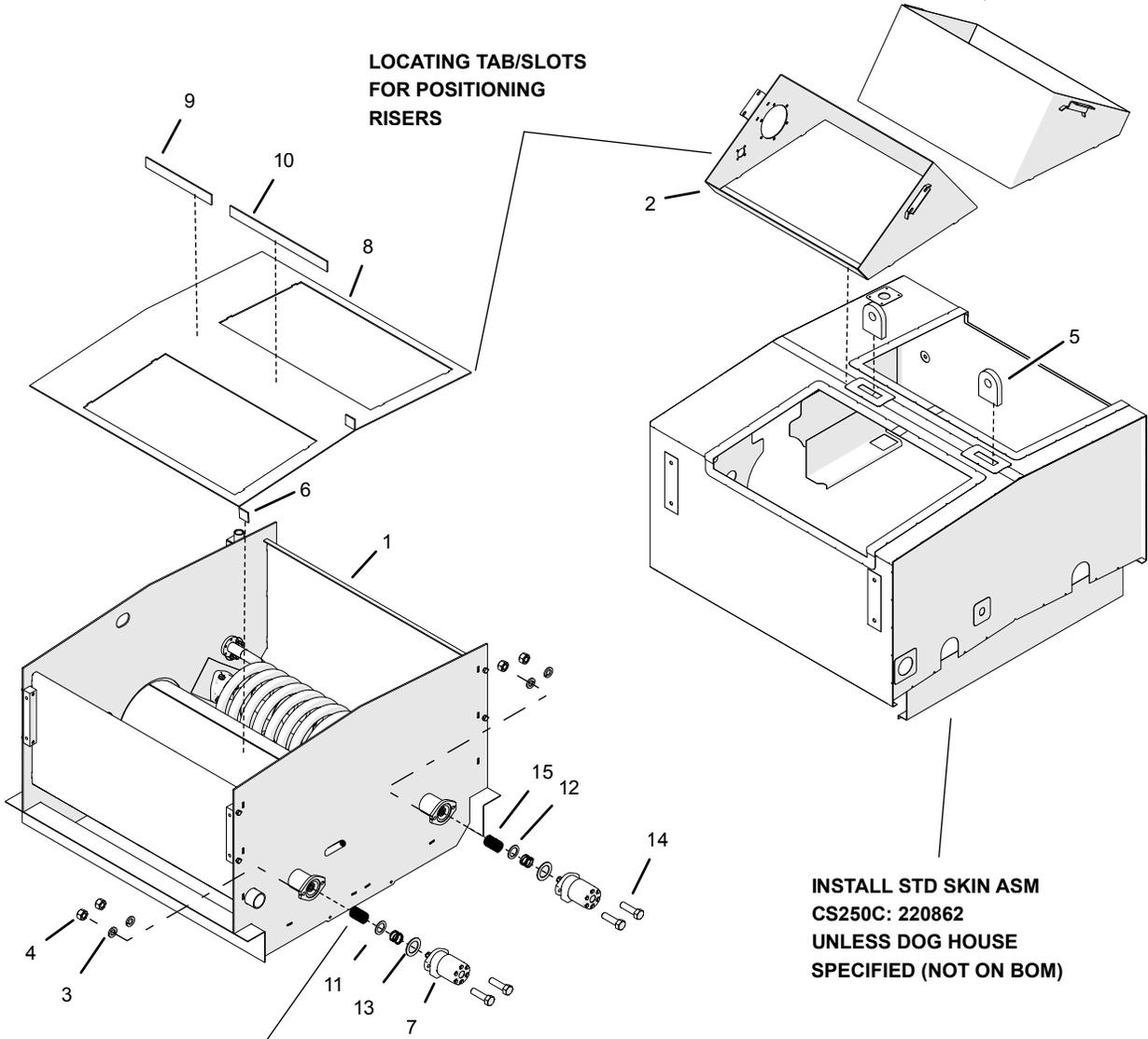


Tank Wdmt & Rear Piping Asm CS250C

VIEW - A

INSTALL LH RISER: 217711
UNLESS DOG HOUSE
SPECIFIED (NOT ON BOM)

LOCATING TAB/SLOTS
FOR POSITIONING
RISERS



INSTALL STD SKIN ASM
CS250C: 220862
UNLESS DOG HOUSE
SPECIFIED (NOT ON BOM)

INSTALL AUGER SHAFT
PACKING MSM-80357- 6
RINGS PER SIDE

REF	PART NO.	QTY	DESCRIPTION
1	220843	1	TANK WDMT CS250C
2	217723	1	RISER RH CS250/400C
3	FAS-28649A	4	WASHER SPLIT LOCK GR8 ZINC .50 IN
4	FAS-28504A	4	NUT HEX GR8 ZINC .50-13
5	217666	2	LIFT EYE CS400 TANK WDMT CS400C
6	217667	2	BAR H.R. FLAT A36 .188 X 2 X 2.00 IN LG
7	218326	2	AUGER MOTOR 100CC A-2 FLG SAE6B 1" SPLINED SHFT OMPX100
8	220850	1	COVER TANK WDMT CS250C
9	220863	1	BAR H.R. FLAT A36 .188 X 2 X 15.00 IN LG
10	220864	1	BAR H.R. FLAT A36 .188 X 2 X 22.25 IN LG
11	FAS-80343	2	PACKING WASHER
12	FAS-80344	2	SPRING COMPRESSION
13	RNG-29054	2	GASKET 2 IN VALVE NA1001 MATERIAL
14	FAS-28763A	4	CAP SCR. HEX GR8 PLN. .50-13 X 1.750
15	MSM-80357	1	AUGER SHAFT PACKING

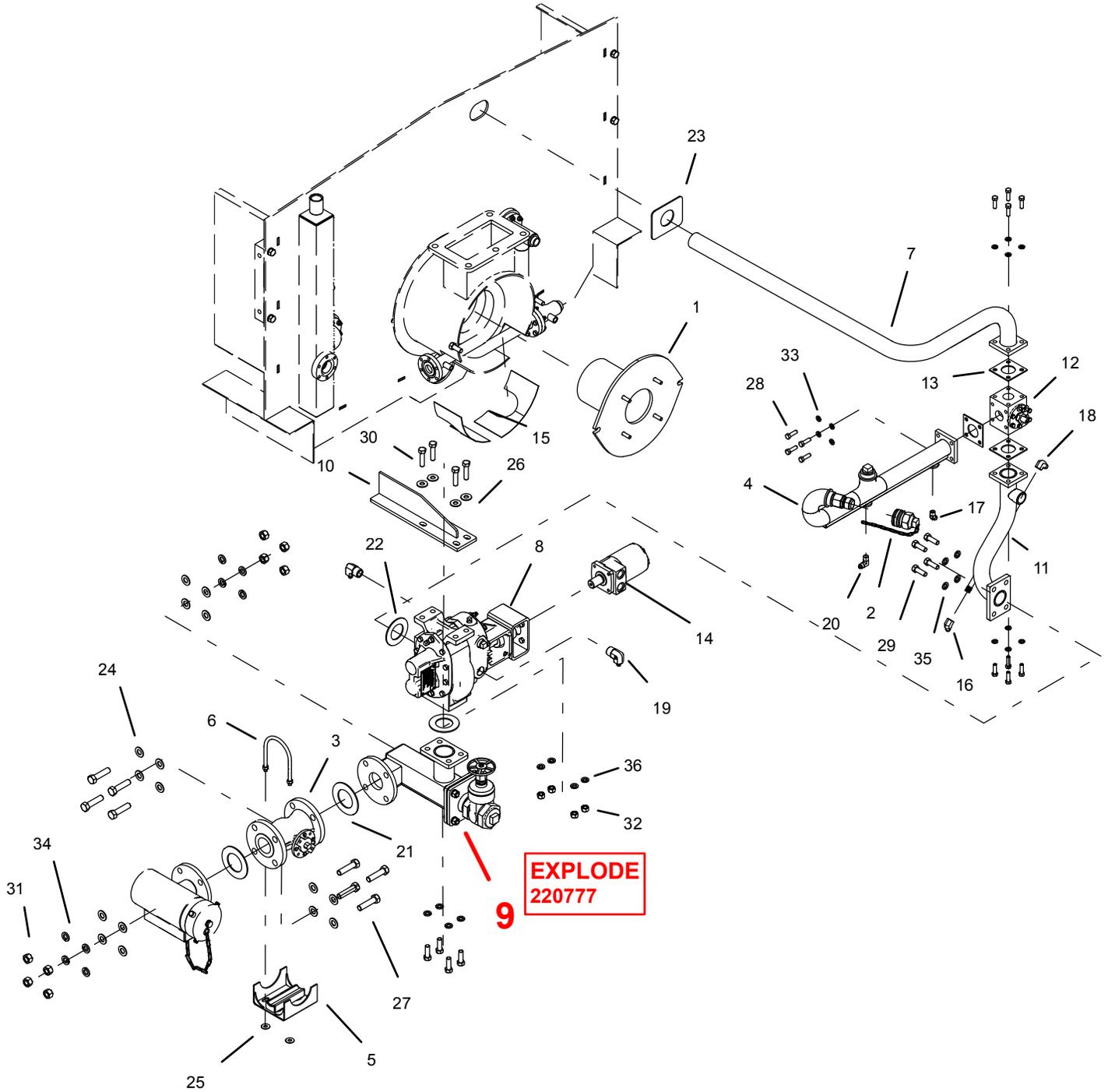
TANK WELDMENT



Tank Weldment & Rear Piping

VIEW B

TANK WELDMENT



EXPLODE
220777

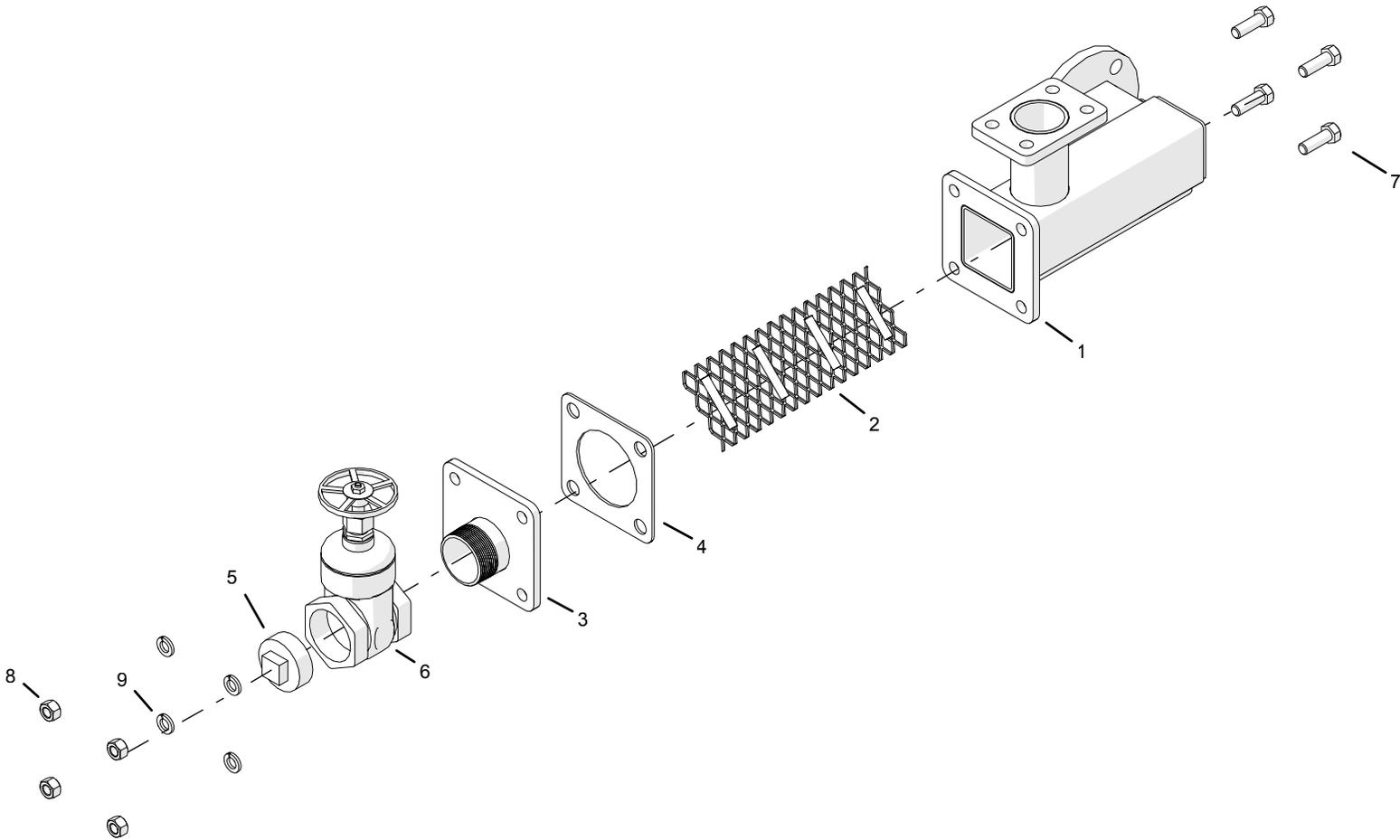
REF	PART NO	QTY	DESCRIPTION	REF	PART NO	QTY	DESCRIPTION
1	FIT-79011	1	BURNER FLUE FLG 2 HOLE DBL PUMP CS SP200	19	90D6MJ-12MP	2	2501-06-12
2	221167	1	END CAP 1 IN SWIVEL DISCONNECT ASM W/ CHAIN	20	90D6MJ-6MP	1	C5405X6
3	216996	1	VALVE BALL 2 IN FLANGED STEEL WITH S/S BALL/STEM	21	RNG-29045	2	GASKET 4-1/8" OD X 2-3/8" ID X 1/8" NA1001 (2 IN ASME B16.21)
4	220794	1	PRODUCT HOSE HOOKUP PIPING WDMT CS250/400C	22	RNG-29075	2	GASKET 3 IN. DIXON CAP(R/A TRK)
5	217512	1	HEAT TRACE WDMT 2 IN VALVE CS	23	TNK-80273	1	PATCH RECIRCULATE PIPE
6	FAS-53613	1	CLAMP MUFFLER 3.50 IN (SF350 ONLY ON CHP)	24	FAS-28625	16	WASHER, SAE, FLAT GR.8 ZINC .625 IN
7	220853	1	RETURN PIPING WDMT CS250/400C	25	FAS-28634	2	WASHER USS FLAT GR5 ZINC .375 IN
8	PMP-80305	1	ROPER PUMP 3611 CS (REPLACES PMP-81108)	26	FAS-28636A	4	WASHER USS FLAT GR8 ZINC .500 IN
9	220777	1	PRODUCT STRAINER ASM CS250/400C	27	FAS-28780A	8	CAP SCR. HEX GR8 ZINC .625-11 X 2.50
10	220788	1	PUMP MOUNT WDMT CS250/400C	28	FAS-28732	12	CAP SCR. HEX GR5 ZINC .375-16 X 1.250
11	220871	1	PIPING WDMT PRODUCT PUMP TO 3-WAY VALVE CS250/400C	29	FAS-28762A	8	CAP SCR. HEX GR8 PLN. .50-13 X 1.50
12	VLV-80050	1	VALVE ASM RH 3 WAY FLOW CNTRL 250 400 CS	30	FAS-28764A	4	CAP SCR. HEX GR8 ZINC .50-13 X 2
13	216083	3	GASKET 3-WAY VALVE NA1001 MATERIAL	31	FAS-28505	8	NUT HEX GR5 ZINC .625-11
14	218325	1	MOTOR PRODUCT PUMP CS 6.10 CU/IN 100CC OMPX100	32	FAS-28504A	4	NUT HEX GR8 ZINC .50-13
15	221043	2	PATCH HEAT FLUE CS	33	FAS-28647	12	WASHER SPLIT LOCK GR5 ZINC .375 IN
16	45D4FP-6MJ	1	MJXFIPPT	34	FAS-28650	8	WASHER SPLIT LOCK GR5 ZINC .625 IN
17	45D6MJ-6MP	1	C5355X6X6	35	FAS-28649	8	WASHER SPLIT LOCK GR5 ZINC .50 IN
18	90D4FP-6MJ	1	C5455X6	36	FAS-28649A	4	WASHER SPLIT LOCK GR8 ZINC .50 IN



Product Strainer Asm - 250/400

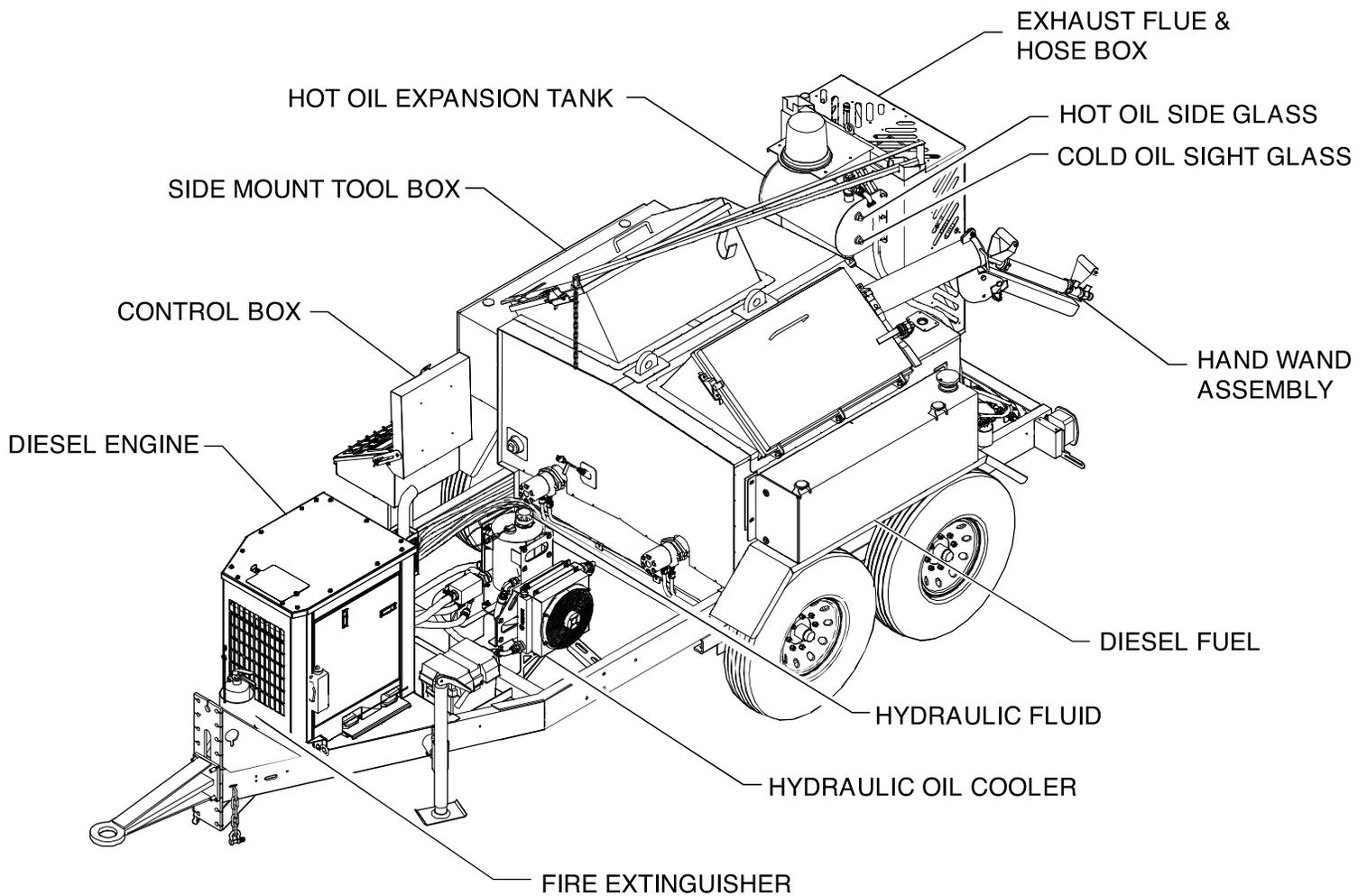
220777

TANK WELDMENT



REF	PART NO	QTY	DESCRIPTION
1	220776	1	PRODUCT STRAINER WDMT CS250/400C
2	220779	1	SCREEN PRODUCT STRAINER ASM CS250/400C
3	220781	1	NIPPLE FLANGE WDMT PRODUCT STRAINER CS250/400C
4	205086	1	GASKET 300 PUMP (204338)
5	FIT-28288	1	PLUG PIPE MAL. 2.0 IN
6	VLV-29270	1	VALVE 2 IN BRONZE GATE
7	FAS-28762	4	CAP SCR. HEX GR5 ZINC .50-13 X 1.50
8	FAS-28504	4	NUT HEX GR5 ZINC .50-13
9	FAS-28649	4	WASHER SPLIT LOCK GR5 ZINC .50 IN

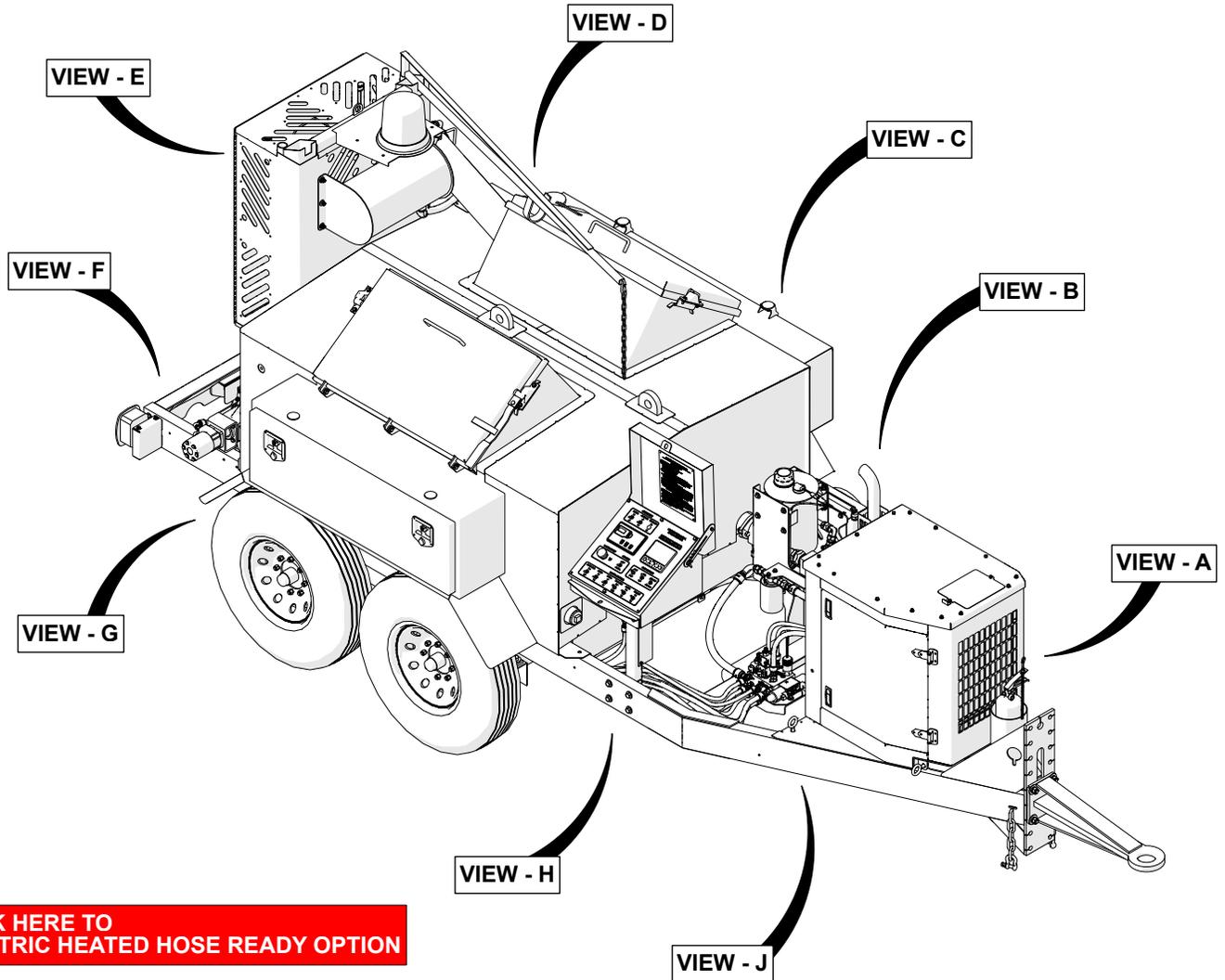
General Identification - 400





Crack Sealer 400

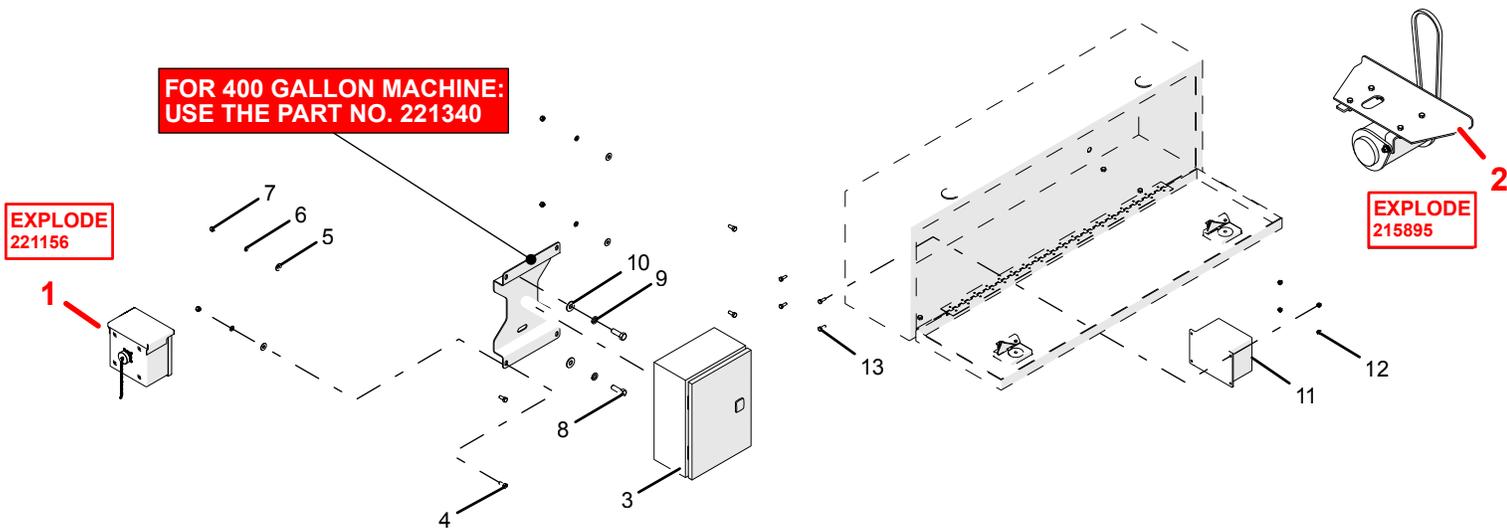
218078





Electric Heated Hose Ready Option

220678



REF	PART NO	QTY	DESCRIPTION
1	221156	2	CONNECTOR BOX FOR ELECTRIC HEATED HOSE CS250/400C
2	215895	2	GENERATOR ASM 250 - 400 STD ECS 2018-
3	216358	1	CONTROL PANEL DUAL DIGITAL CNTRL PRO THERM HEATED ASPHALT HOSE
4	FAS-28715	4	CAP SCR. HEX GR5 ZINC .313-18 X .750
5	FAS-28633	4	WASHER USS FLAT GR5 ZINC .313 IN
6	FAS-28646	4	WASHER SPLIT LOCK GR5 ZINC .313 IN
7	FAS-28501	4	NUT LOCKNUT GR8 .750-16
8	FAS-28912	2	CAP SCR. HEX GR5 ZINC .50-20 X 1.50
9	FAS-28649	2	WASHER SPLIT LOCK GR5 ZINC .50 IN
10	FAS-28636	2	WASHER USS FLAT GR5 ZINC .500 IN
11	218229	1	POWER VOLTAGE REGULATOR
12	FAS-28500	4	NUT HEX GR5 ZINC .250-20
13	FAS-28701	4	CAP SCR. HEX GR5 ZINC .250-20 X .750
14	217883	1	90D .50 CONDUIT CONNECTOR (Not Shown)
15	ELC-24057	6	CABLE 4-CONDUCTOR 12 GA (Not Shown)

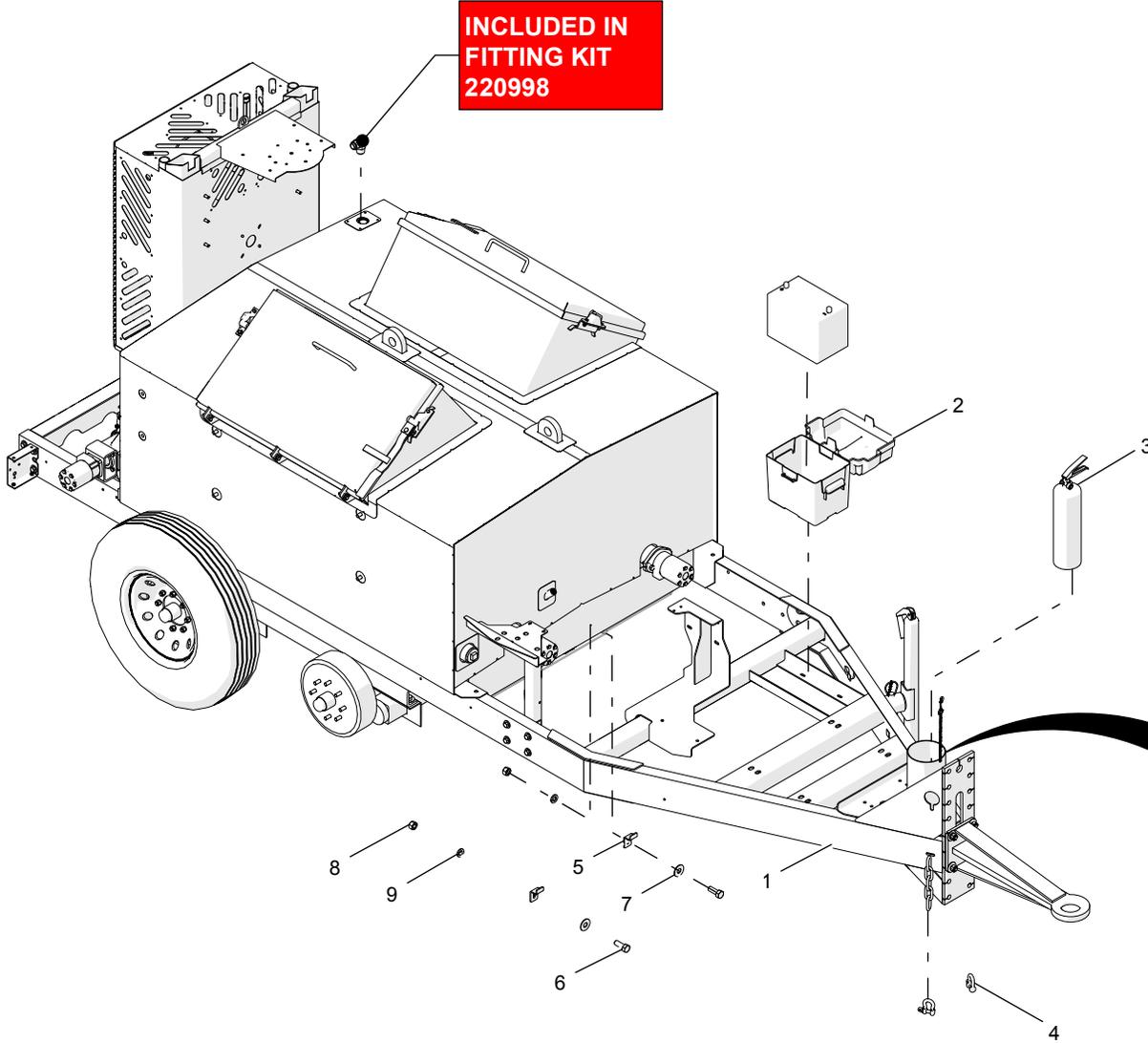


VIEW A

VIEW A

INCLUDED IN FITTING KIT 220998

EXPLODED JUNCTION BOX ASM

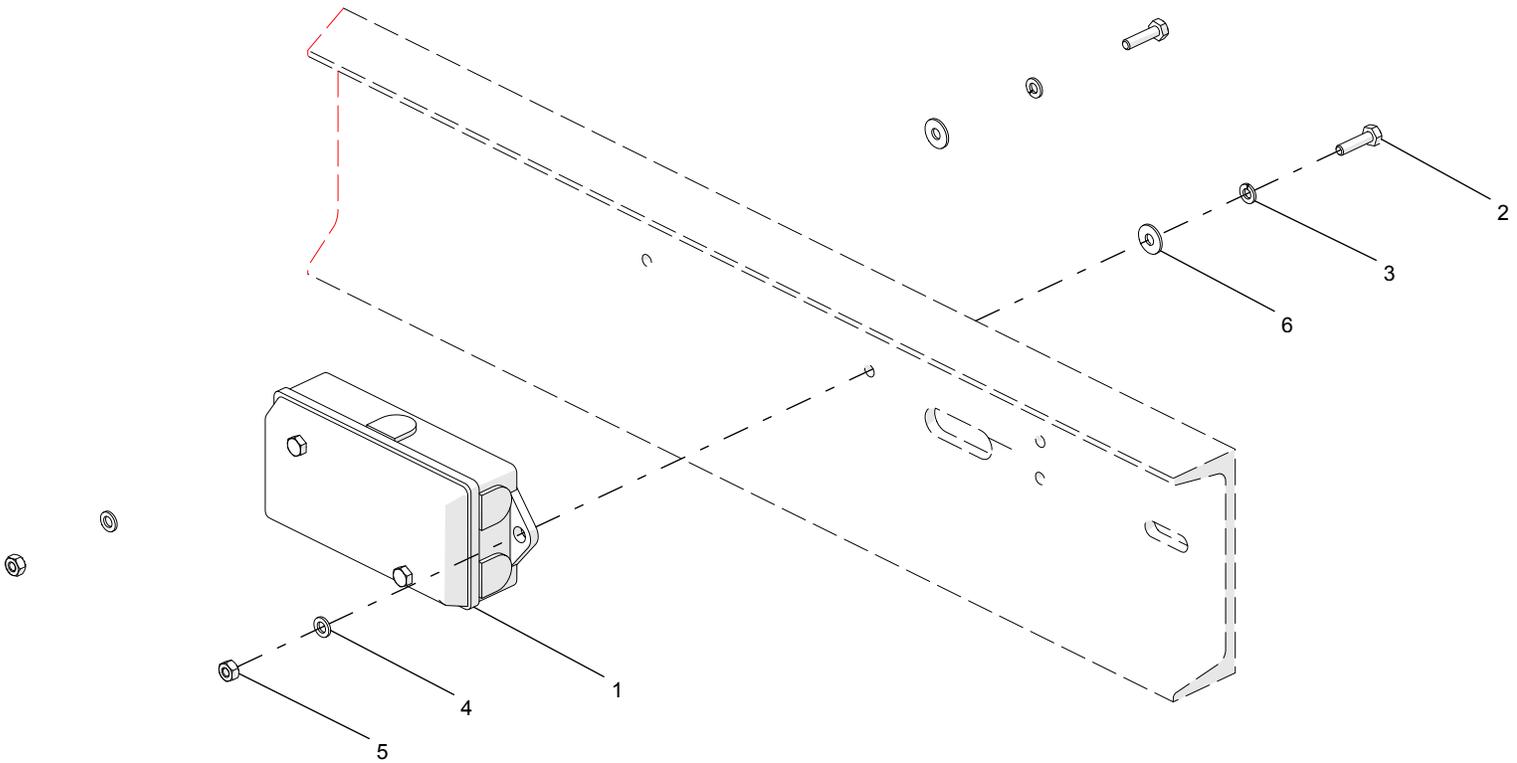


REF	PART NO	QTY	DESCRIPTION
1	218076	1	TANK ON FRAME CS400C
2	222222	1	GROUP 24 SNAP TOP BATTERY BOX
3	MSC-80009	1	FIRE EXTINGUISHER 10 LB.
4	FAS-80103	2	SHACKLE ANCHOR .438 IN
5	215804	2	CLAMP HYD HOSES AUGER MOTOR CS
6	FAS-28732	2	CAP SCR. HEX GR5 ZINC .375-16 X 1.250
7	FAS-28634	2	WASHER USS FLAT GR5 ZINC .375 IN
8	FAS-28502	2	NUT HEX GR5 ZINC .375-16
9	FAS-28647	2	WASHER SPLIT LOCK GR5 ZINC .375 IN



Junction Box 7 Pole

VIEW A

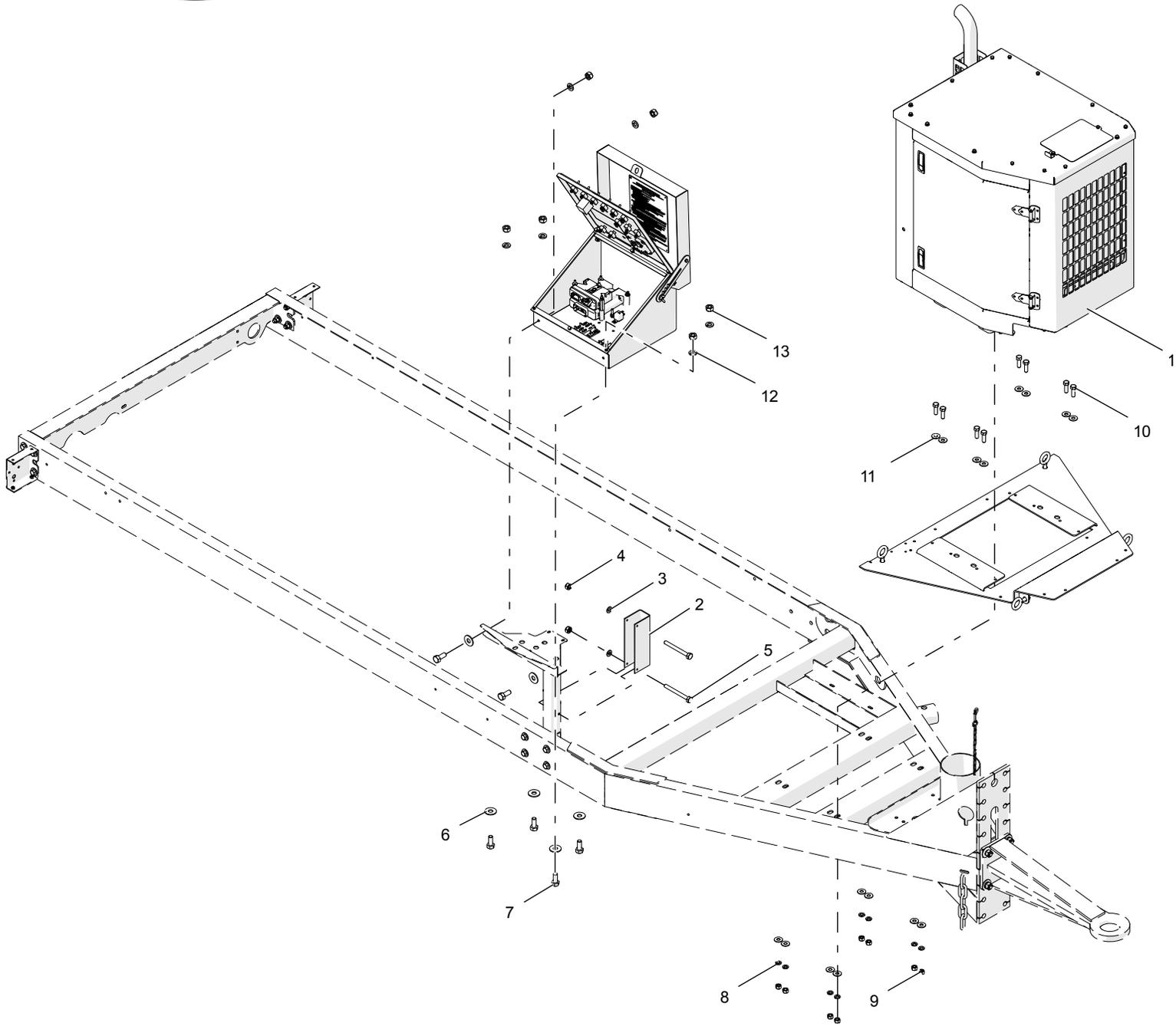


REF	PART NO	QTY	DESCRIPTION
1	HSG-24235	1	JUNCTION BOX 7 POLE (BERG BX)
2	FAS-28702	2	CAP SCR. HEX GR5 ZINC .250-20 X 1
3	FAS-28645	2	WASHER SPLIT LOCK GR5 ZINC .250 IN
4	209982	2	WASHER SAE FLAT ZINC .250 IN
5	FAS-28500	2	NUT HEX GR5 ZINC .250-20
6	FAS-28632	2	WASHER USS FLAT GR5 ZINC .250 IN



VIEW B - 400

VIEW B

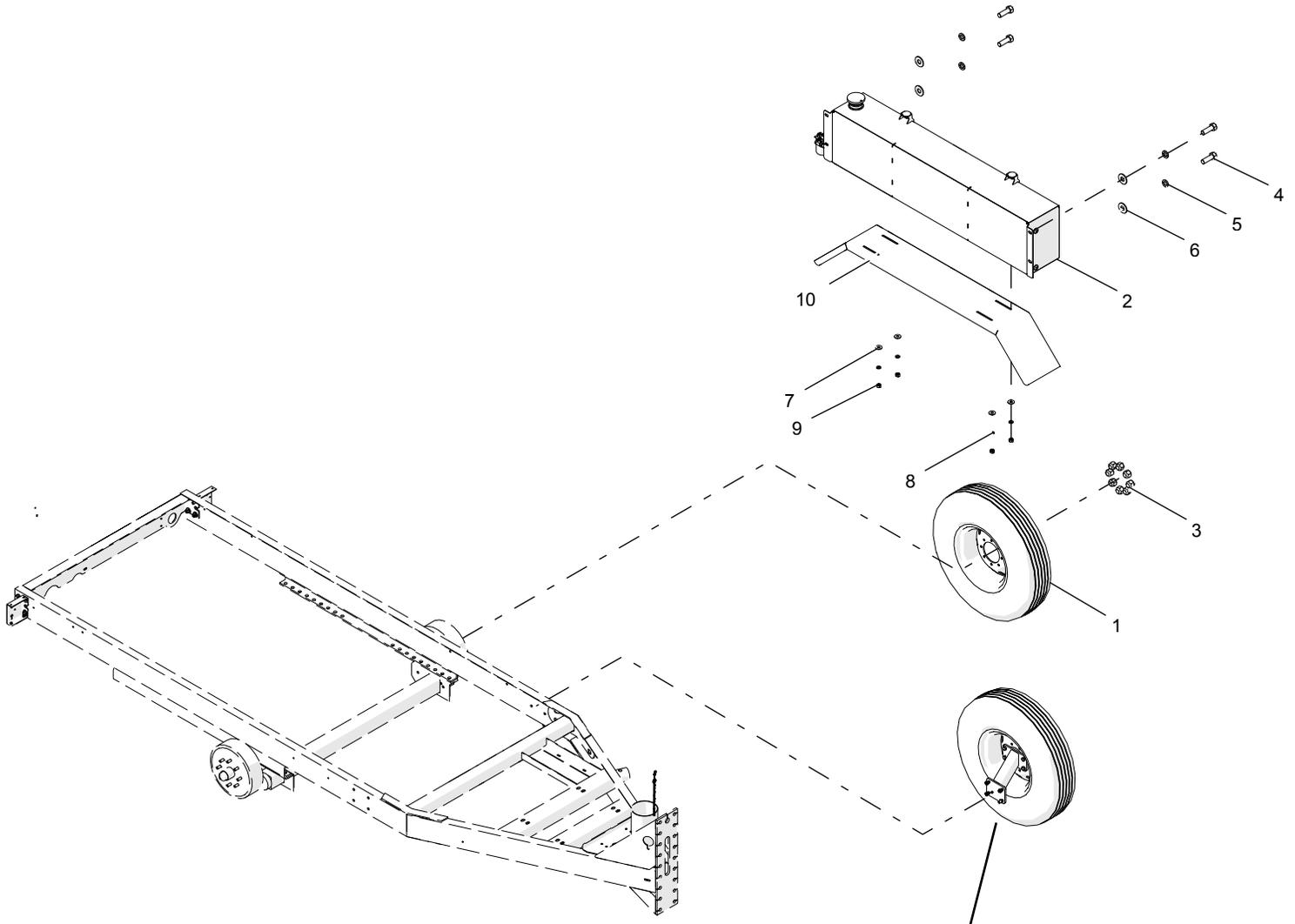


REF	PART NO	QTY	DESCRIPTION
1	222243	1	ISUZU ENGINE OPTION PACKAGE
2	215819	1	GUARD CONTROL PANEL WIRING CS
3	FAS-28645	2	WASHER SPLIT LOCK GR5 ZINC .250 IN
4	FAS-28500	2	NUT HEX GR5 ZINC .250-20
5	FAS-28707	2	CAP SCR. HEX GR5 ZINC .250-20 X 2.50
6	FAS-28633	6	WASHER USS FLAT GR5 ZINC .313 IN
7	FAS-28715	6	CAP SCR. HEX GR5 ZINC .313-18 X .750
8	FAS-28649	8	WASHER SPLIT LOCK GR5 ZINC .50 IN
9	FAS-28504	8	NUT HEX GR5 ZINC .50-13
10	FAS-28762	8	CAP SCR. HEX GR5 ZINC .50-13 X 1.50
11	FAS-28636	16	WASHER USS FLAT GR5 ZINC .500 IN
12	FAS-28646	6	WASHER SPLIT LOCK GR5 ZINC .313 IN
13	FAS-28501	6	NUT HEX GR5 ZINC .313-18



VIEW C - 400

VIEW C



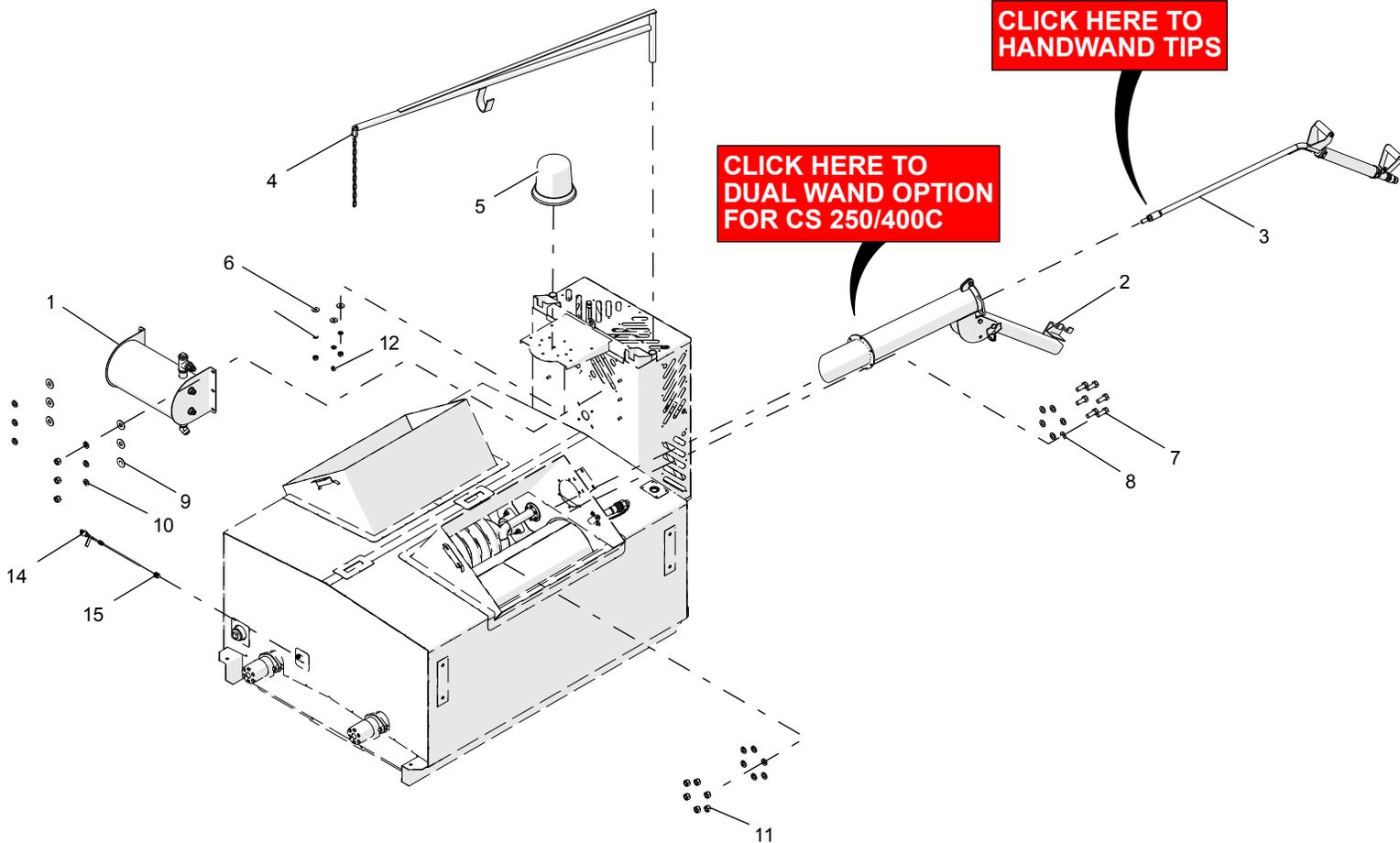
**CLICK HERE TO
SPARE TIRE OPTION CS250/400C
(221115)**

REF	PART NO	QTY	DESCRIPTION
1	MSC-80087	1	WHEEL AND TIRE ASM CS
2	221333	1	TANK ASM DIESEL CS400C
3	FAS-80148	8	NUT LUG (WHEEL) CS/TOW BAR .50-20
4	FAS-28912	4	CAP SCR. HEX GR5 ZINC .50-20 X 1.50
5	FAS-28649	4	WASHER SPLIT LOCK GR5 ZINC .50 IN
6	FAS-28636	4	WASHER USS FLAT GR5 ZINC .500 IN
7	FAS-28632	4	WASHER USS FLAT GR5 ZINC .250 IN
8	FAS-28645	4	WASHER SPLIT LOCK GR5 ZINC .250 IN
9	FAS-28500	4	NUT HEX GR5 ZINC .250-20
10	221182	1	FENDER BOLT-ON CS250/400C



VIEW D - 400

VIEW D



REF	PART NO	QTY	DESCRIPTION
1	217698	1	TANK HOT OIL EXPANSION CS250/400C
2	218064	1	MOUNT AND HOLDER HANDWAND BOLT-ON
3	MSC-80409	1	HAND WAND ASM CS
4	BRK-80365	1	HOSE JIB CS
5	ELC-24215	1	BEACON, ROTATING AMBER BEACON**6670A
6	FAS-28632	3	WASHER USS FLAT GR5 ZINC .250 IN
7	FAS-28731	6	CAP SCR. HEX GR5 ZINC .375-16 X 1
8	FAS-28621	6	WASHER,SAE FLAT GR8 ZINC .375 IN
9	FAS-28634	6	WASHER USS FLAT GR5 ZINC .375 IN
10	FAS-28647	12	WASHER SPLIT LOCK GR5 ZINC .375 IN
11	FAS-28502	12	NUT HEX GR5 ZINC .375-16
12	FAS-28500	3	NUT HEX GR5 ZINC .250-20
13	FAS-28645	3	WASHER SPLIT LOCK GR5 ZINC .250 IN
14	204658	1	TEMP SENSOR ASM RTD TYPE 18"
15	FIT-28344	1	BUSHING PIPE MAL. HEX. .50 X .250 STEEL

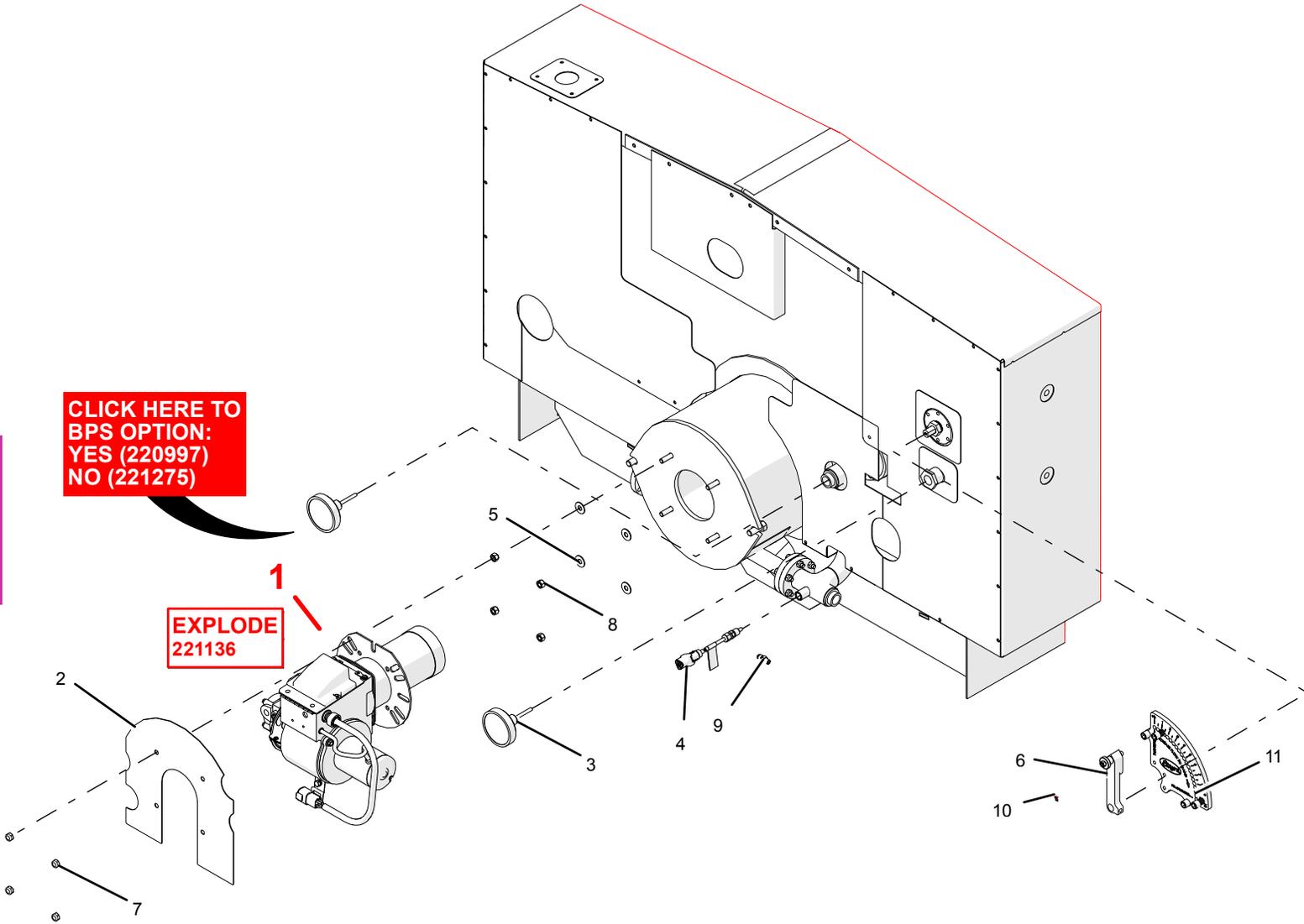


VIEW E - 400

V
I
E
W
E

CLICK HERE TO
BPS OPTION:
YES (220997)
NO (221275)

EXPLODE
221136

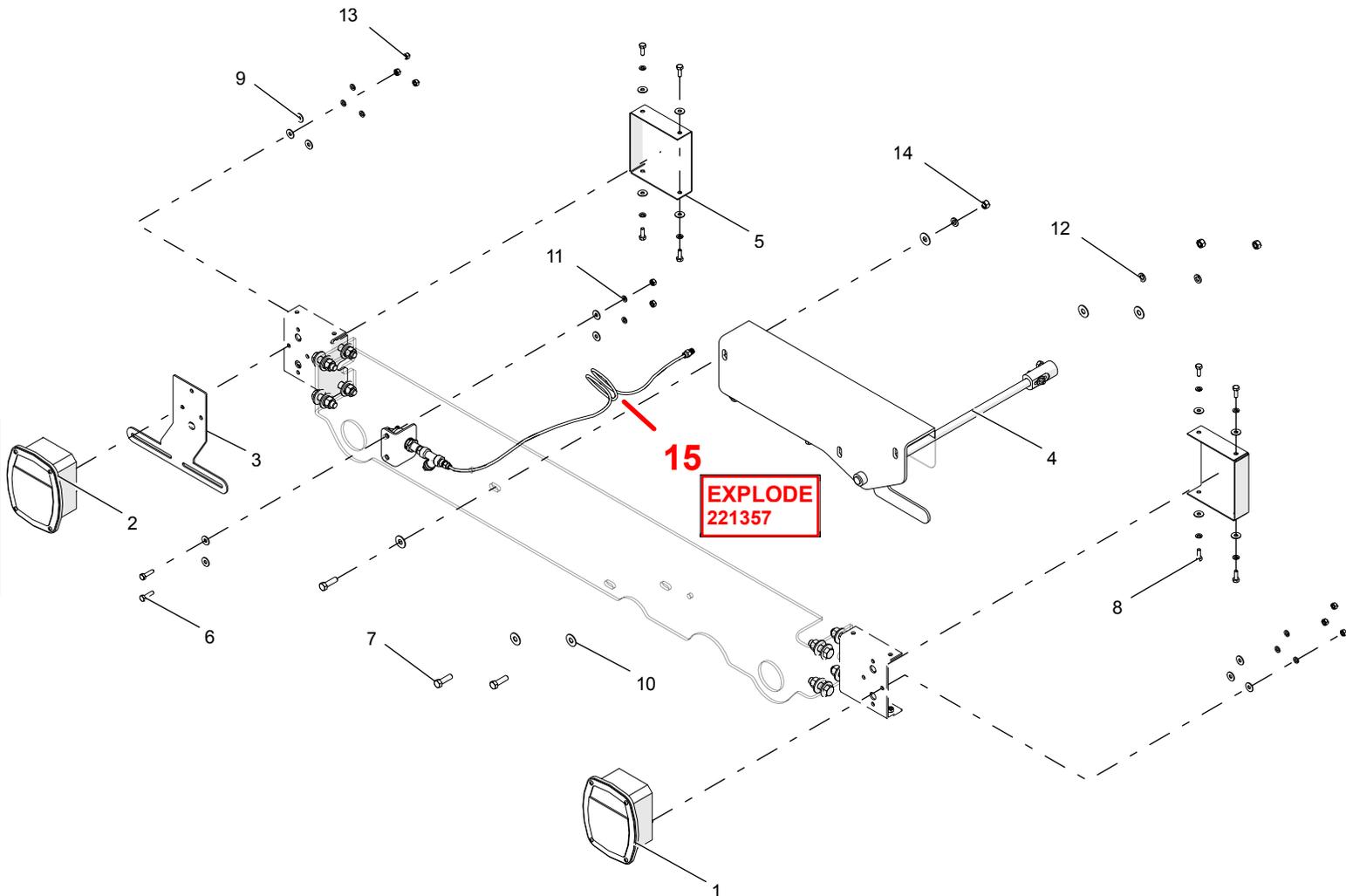


REF	PART NO	QTY	DESCRIPTION
1	221136	2	BURNER ASM CS250/400C
2	GRD-81180	1	HEAT SHIELD BURNER CS
3	MTR-80311	2	THERM HOT OIL 150-750F 65-399C 3IN DIAL
4	204657	1	THERMOCOUPLE CABLE ASM 3 IN LNG W-3 PIN CONN SP200 SPRAYBAR CS
5	FAS-28634	4	WASHER USS FLAT GR5 ZINC .375 IN
6	MCH-80061	1	LEVER INDICATOR ASM 3 WAY VALVE CS
7	FAS-28538	4	NUT STOVER LOCK GR8 ZINC .375-16
8	FAS-28502	4	NUT HEX GR5 ZINC .375-16
9	10MB-06MJ	1	C5315X6X10
10	FAS-28715	1	CAPSCREW-HEX, GR5, ZINC, 0.313-18 X 0.75"
11	220510	1	GAUGE RH FLOW 3-WAY VLV 250/400 KRACKER

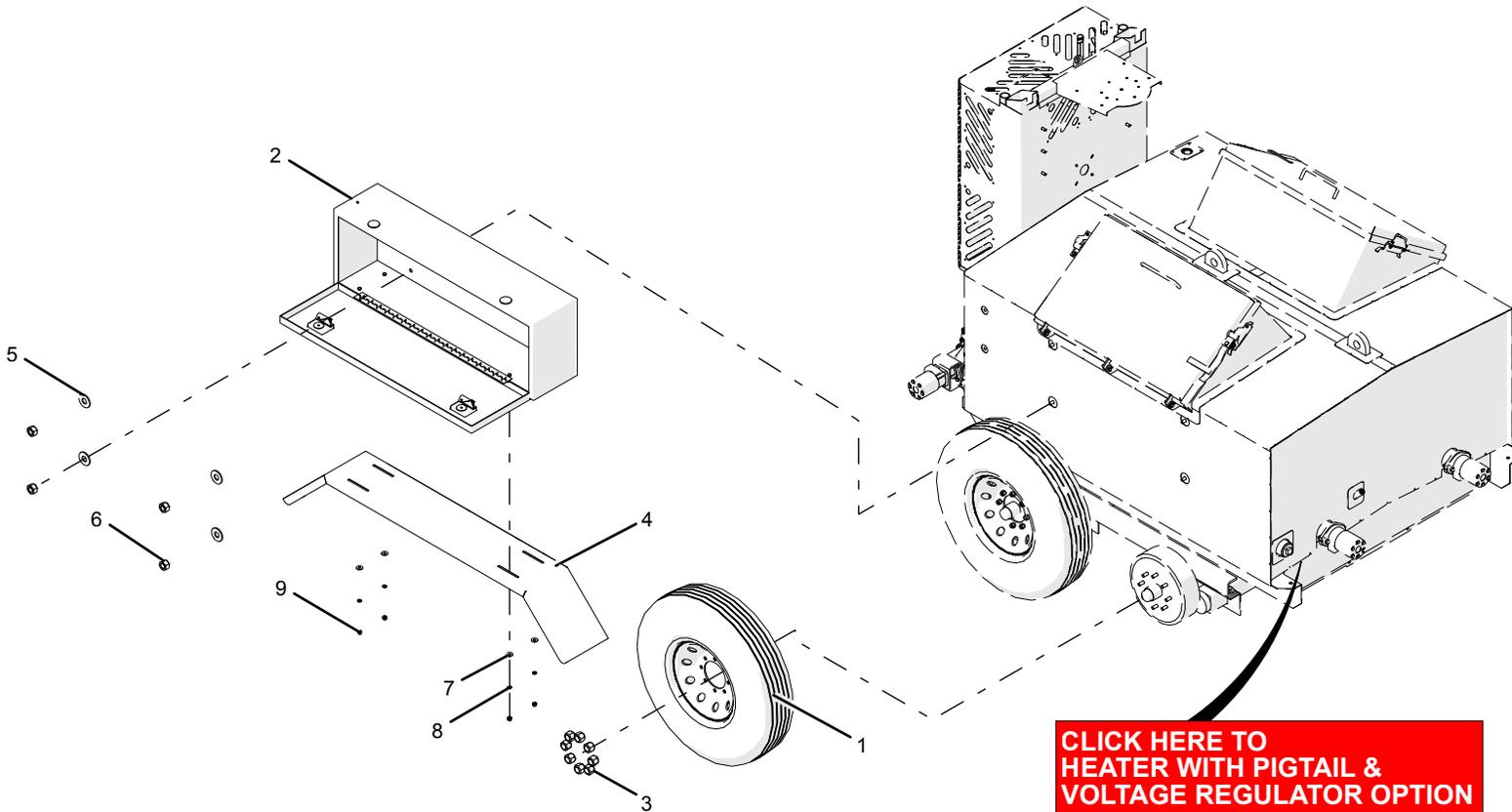


VIEW F - 400

VIEW
F

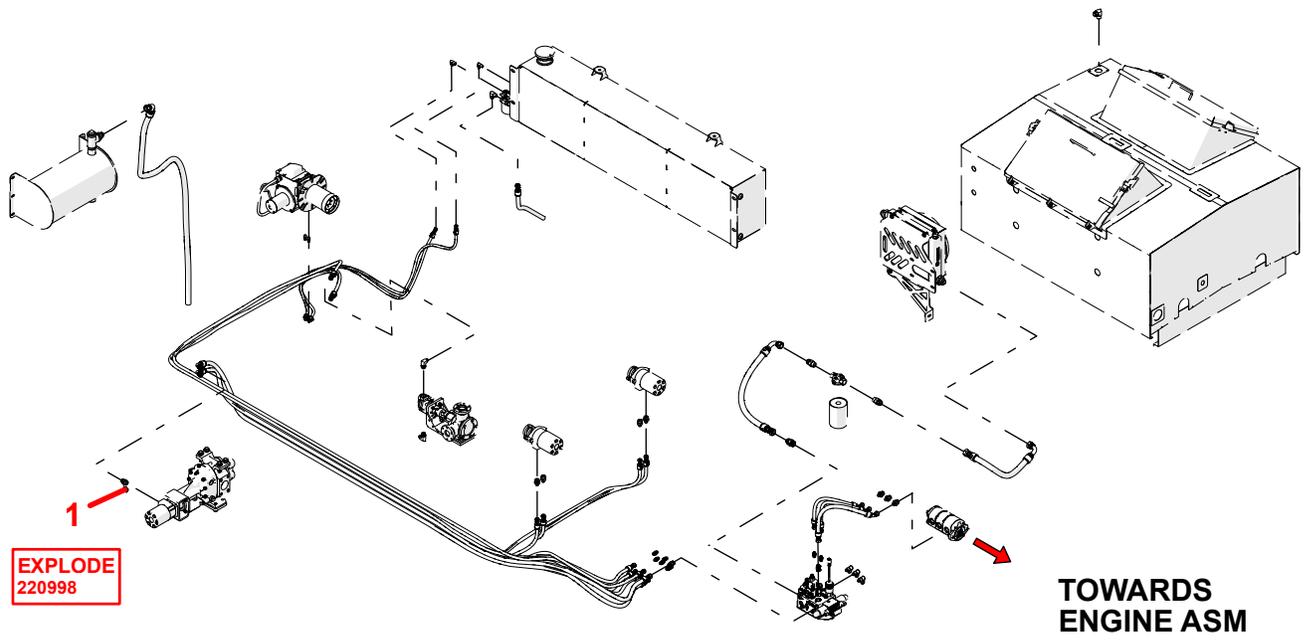


REF	PART NO	QTY	DESCRIPTION
1	ELC-24470	1	LED SUPER NOVA TAIL LIGHT RH
2	ELC-24471	1	LED SUPER NOVA TAIL LIGHT LH
3	217108	1	CS LICENSE PLATE BRACKET
4	221199	1	TANK VALVE ACTUATOR ASM CS250/400C
5	218080	2	COVER MOUNT TAIL LIGHTS CS400C
6	FAS-28702	2	CAP SCR. HEX GR5 ZINC .250-20 X 1
7	FAS-28732	3	CAP SCR. HEX GR5 ZINC .375-16 X 1.250
8	FAS-28701	8	CAP SCR. HEX GR5 ZINC .250-20 X .750
9	FAS-28632	18	WASHER USS FLAT GR5 ZINC .250 IN
10	FAS-28634	6	WASHER USS FLAT GR5 ZINC .375 IN
11	FAS-28645	16	WASHER SPLIT LOCK GR5 ZINC .250 IN
12	FAS-28647	3	WASHER SPLIT LOCK GR5 ZINC .375 IN
13	FAS-28500	8	NUT HEX GR5 ZINC .250-20
14	FAS-28502	3	NUT HEX GR5 ZINC .375-16
15	221357	1	AS - H.O. PRESSURE SWITCH



REF	PART NO	QTY	DESCRIPTION
1	MSC-80087	1	WHEEL AND TIRE ASM CS
2	221339	1	TOOLBOX ASY 48 IN CS400
3	FAS-80148	8	NUT LUG (WHEEL) CS/TOW BAR .50-20
4	221182	1	FENDER BOLT-ON CS250/400C
5	FAS-28636	4	WASHER USS FLAT GR5 ZINC .500 IN
6	FAS-28504	4	NUT HEX GR5 ZINC .50-13
7	FAS-28632	4	WASHER USS FLAT GR5 ZINC .250 IN
8	FAS-28645	4	WASHER SPLIT LOCK GR5 ZINC .250 IN
9	FAS-28500	4	NUT HEX GR5 ZINC .250-20

V
I
E
W
H



REF	PART NO	QTY	DESCRIPTION
1	220998	1	ADAPTER KIT

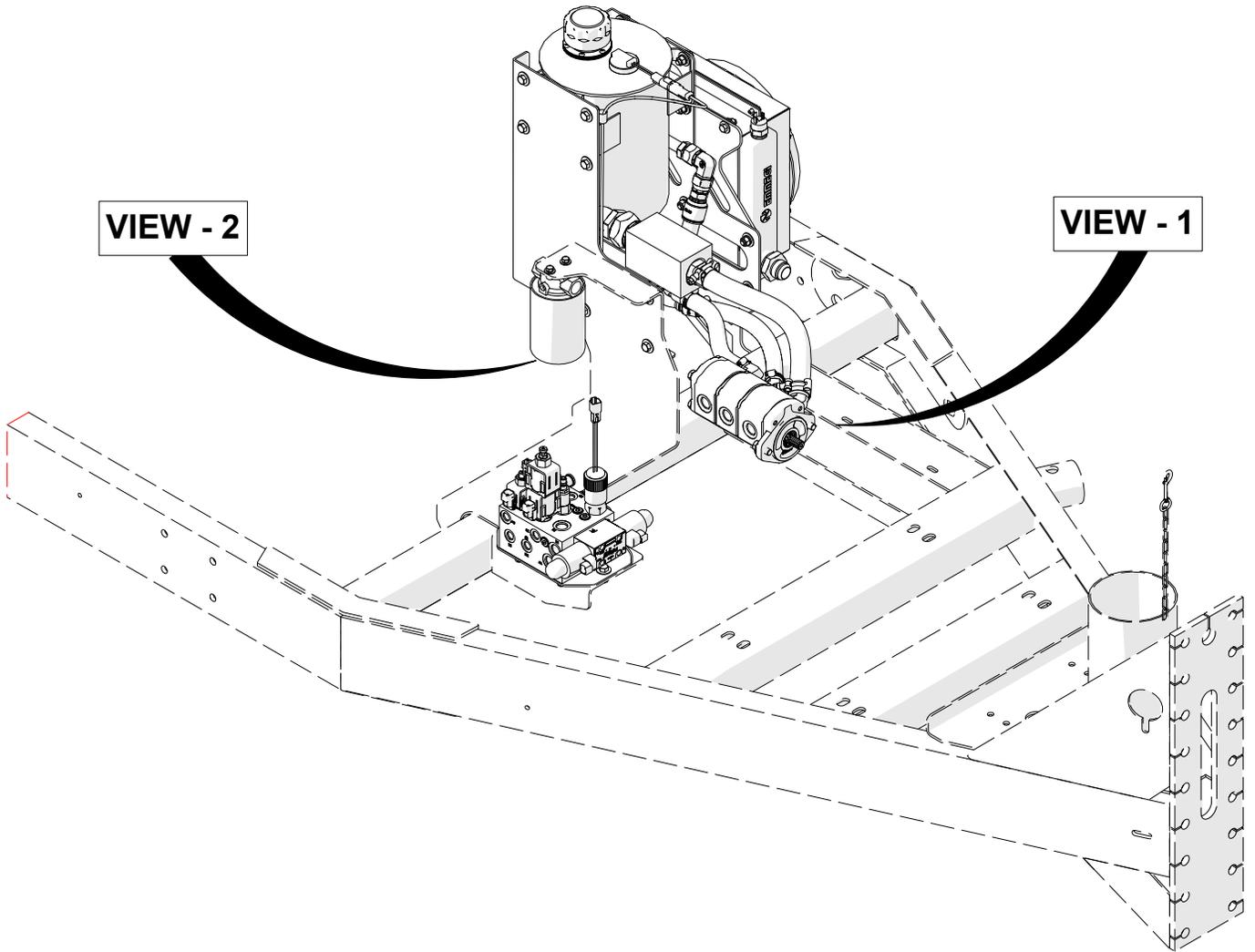


VIEW J - 400

VIEW - 2

VIEW - 1

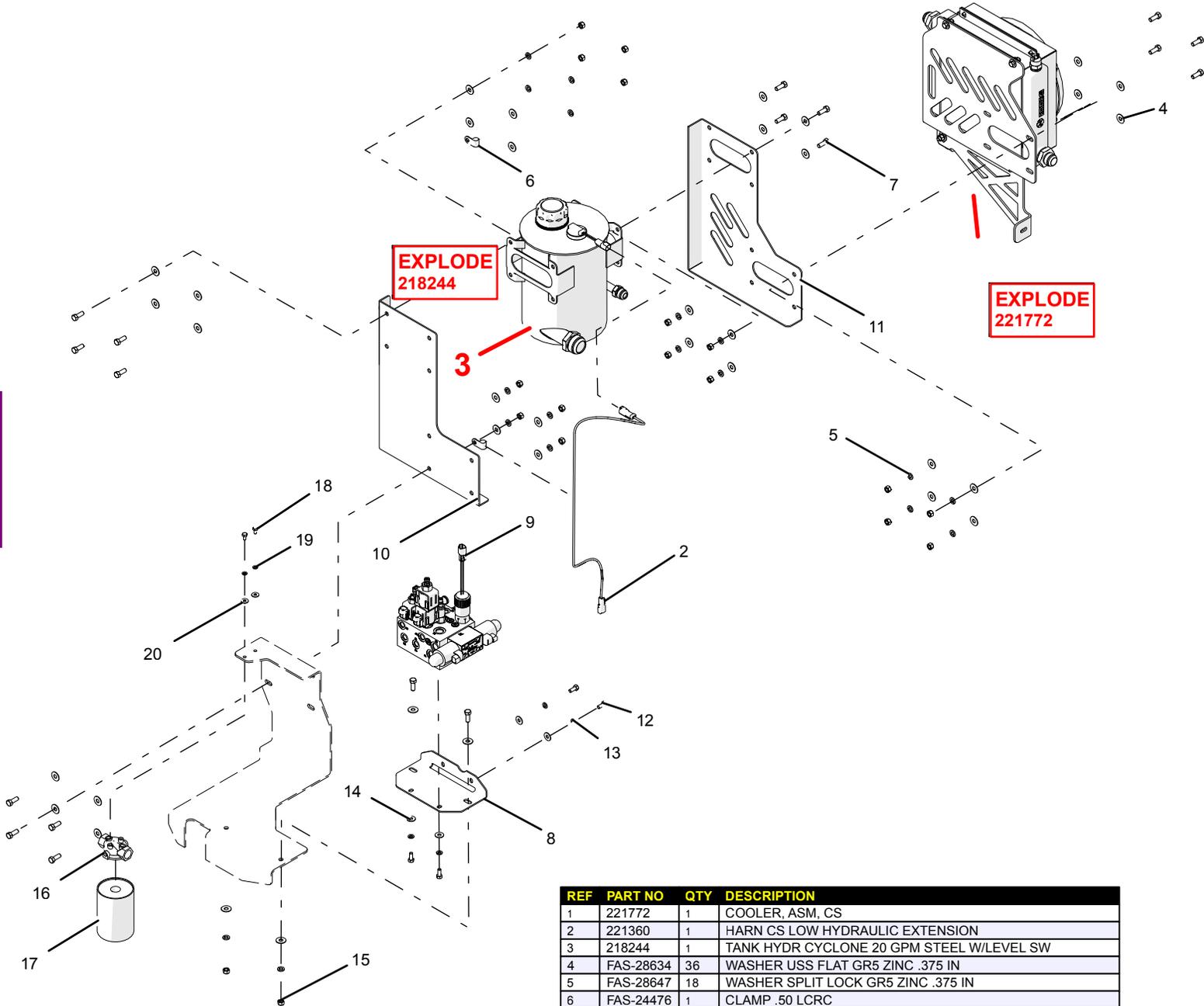
V
I
E
W
J





VIEW 1 - 400

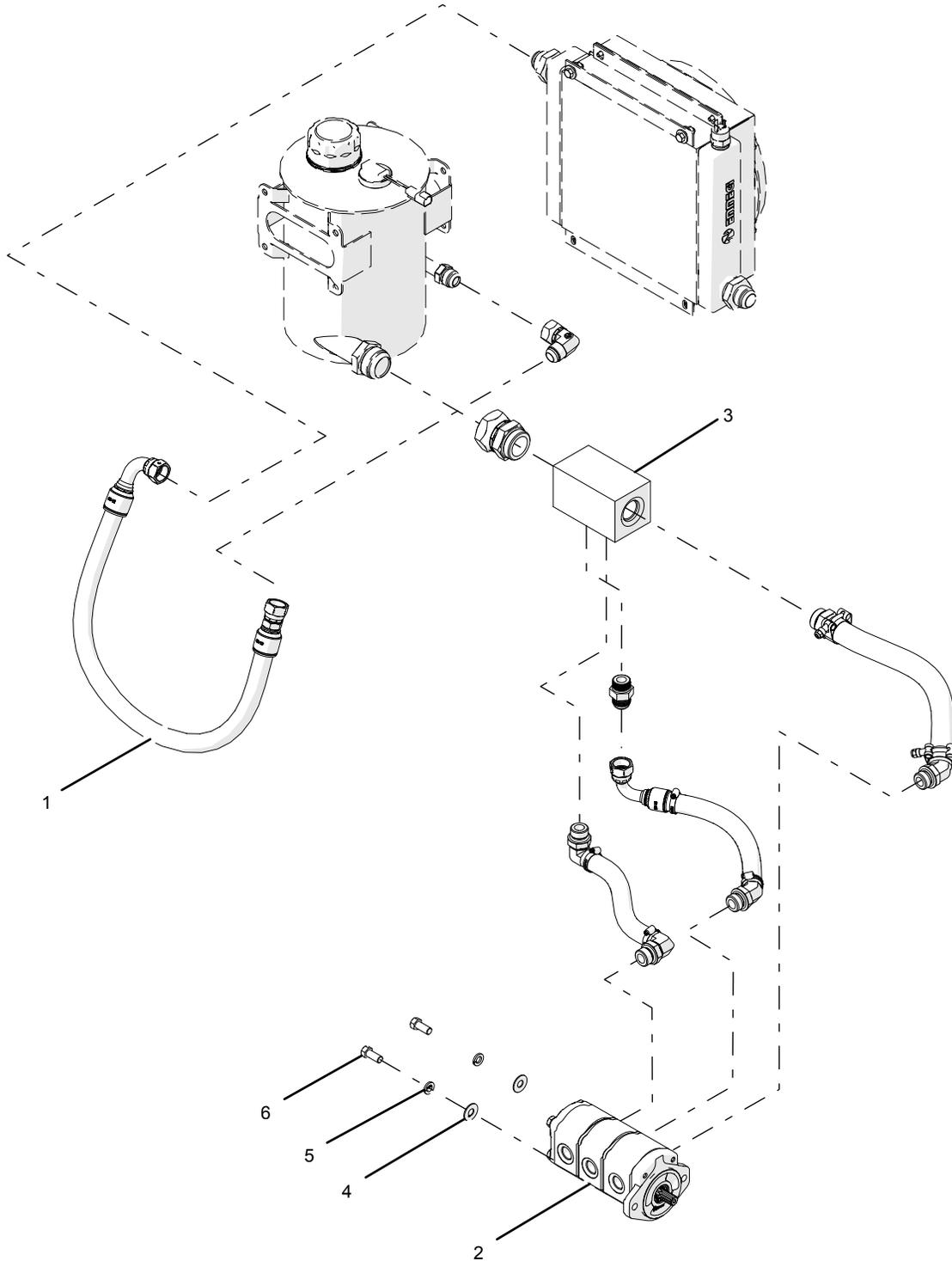
V
I
E
W
J



REF	PART NO	QTY	DESCRIPTION
1	221772	1	COOLER, ASM, CS
2	221360	1	HARN CS LOW HYDRAULIC EXTENSION
3	218244	1	TANK HYDR CYCLONE 20 GPM STEEL W/LEVEL SW
4	FAS-28634	36	WASHER USS FLAT GR5 ZINC .375 IN
5	FAS-28647	18	WASHER SPLIT LOCK GR5 ZINC .375 IN
6	FAS-24476	1	CLAMP .50 LCRC
7	FAS-28731	18	CAP SCR. HEX GR5 ZINC .375-16 X 1
8	221968	1	MOUNT ALT HYD VALVE ASSY 220958 ECS
9	221967	1	VALVE ASSY W/ MANIFOLD HIC 2023 ECS REPLACES 220958
10	3391211	1	VLV SUPPORT BRKT HYD TANK ECS PUMP FIX
11	3391212	1	VLV SUPPORT BRKT HYD COOLER ECS PUMP FIX
12	FAS-28715	4	CAP SCR. HEX GR5 ZINC .313-18 X .750
13	FAS-28646	4	WASHER SPLIT LOCK GR5 ZINC .313 IN
14	FAS-28633	4	WASHER USS FLAT GR5 ZINC .313 IN
15	FAS-28538	18	NUT STOVER LOCK GR8 ZINC .375-16
16	FTR-51735	1	FILTER HEAD, TRACTION DRIVE CASE BLEED.
17	FTR-51736	1	FILTER, 10 MICRON 15GPM (CASE BLEED)
18	FAS-28700	2	CAP SCR. HEX GR5 ZINC .250-20 X .50
19	FAS-28645	2	WASHER SPLIT LOCK GR5 ZINC .250 IN
20	FAS-28632	2	WASHER USS FLAT GR5 ZINC .250 IN



VIEW 2 - 400



V
I
E
W
J

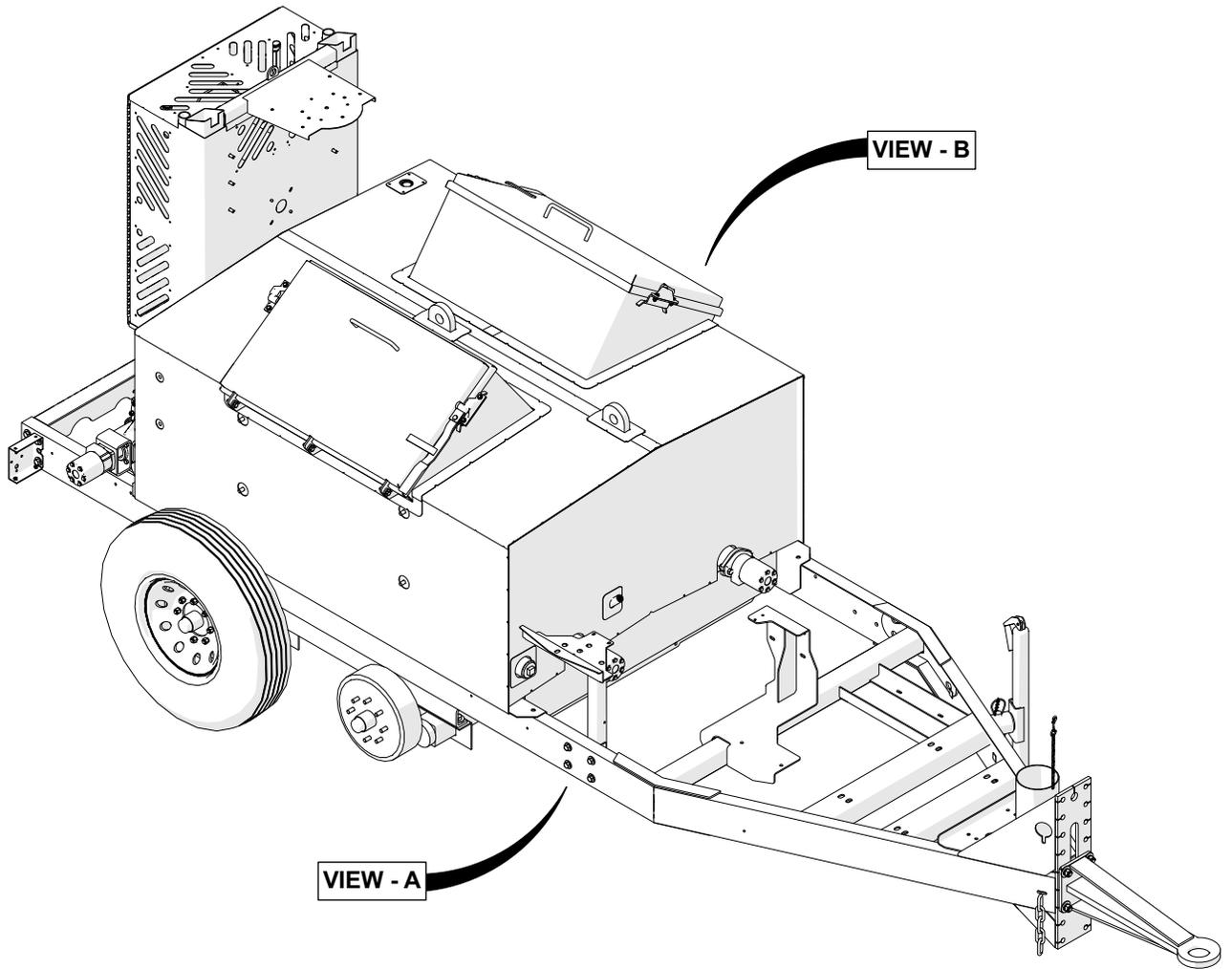
REF	PART NO	QTY	DESCRIPTION
1	221958	1	HOSE/ADAPTER KIT HYD PUMP SUCTION FIX ECS
2	221676	1	HYD TRIPLE PUMP ECS 2022
2a	→224011	1	SEAL KIT-1 BODY SECTION 3 TOTAL PER PUMP
3	3391207	1	MANIFOLD-HYD RETURN HEADER
4	FAS-28635	2	WASHER USS FLAT GR5 ZINC .438 IN
5	FAS-28648	2	WASHER SPLIT LOCK GR5 ZINC .438 IN
6	FAS-28896	2	CAP SCR. HEX GR5 ZINC .438-20 X 1



Tank on Frame - CS400C

218076

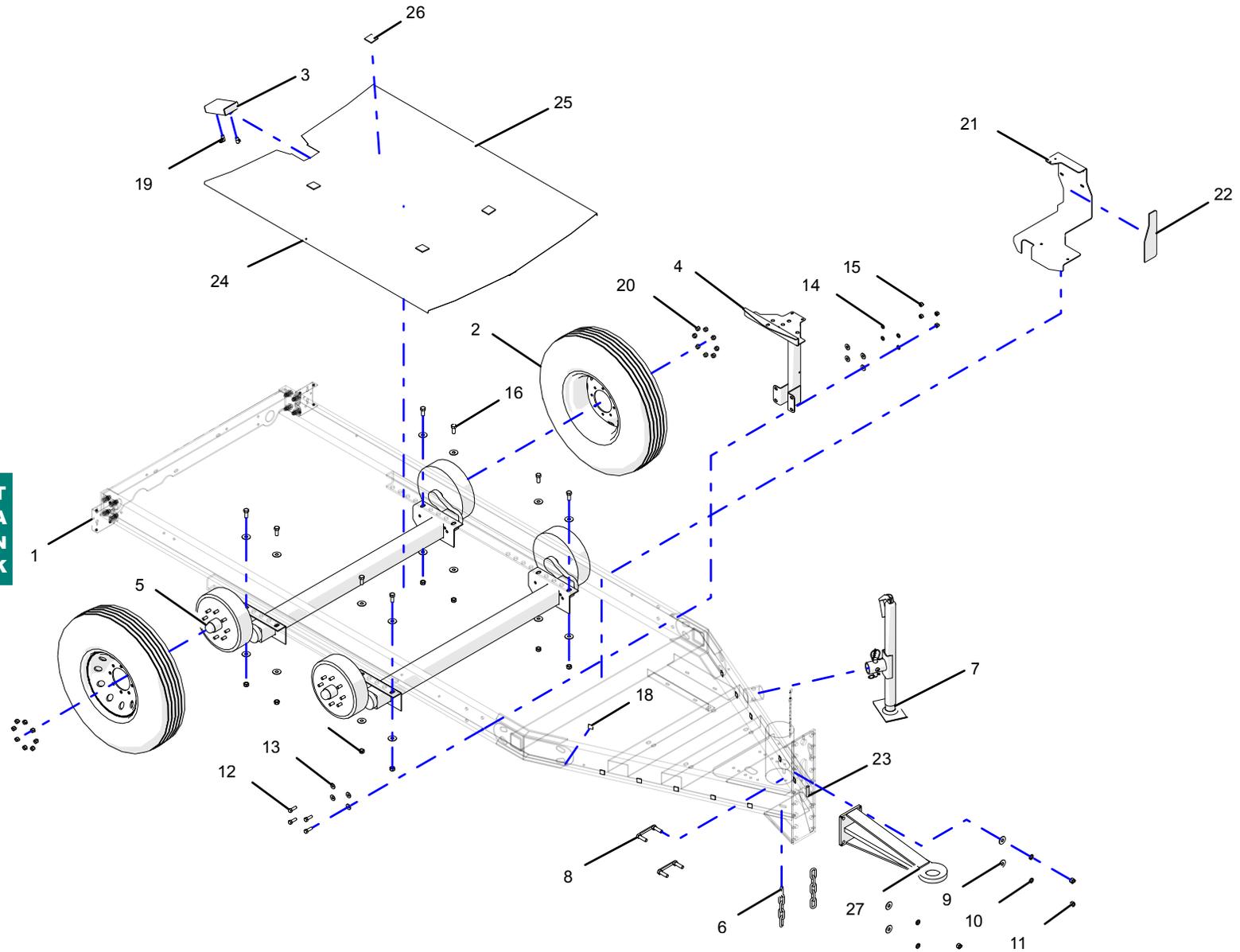
T
A
N
K





VIEW A

TANK



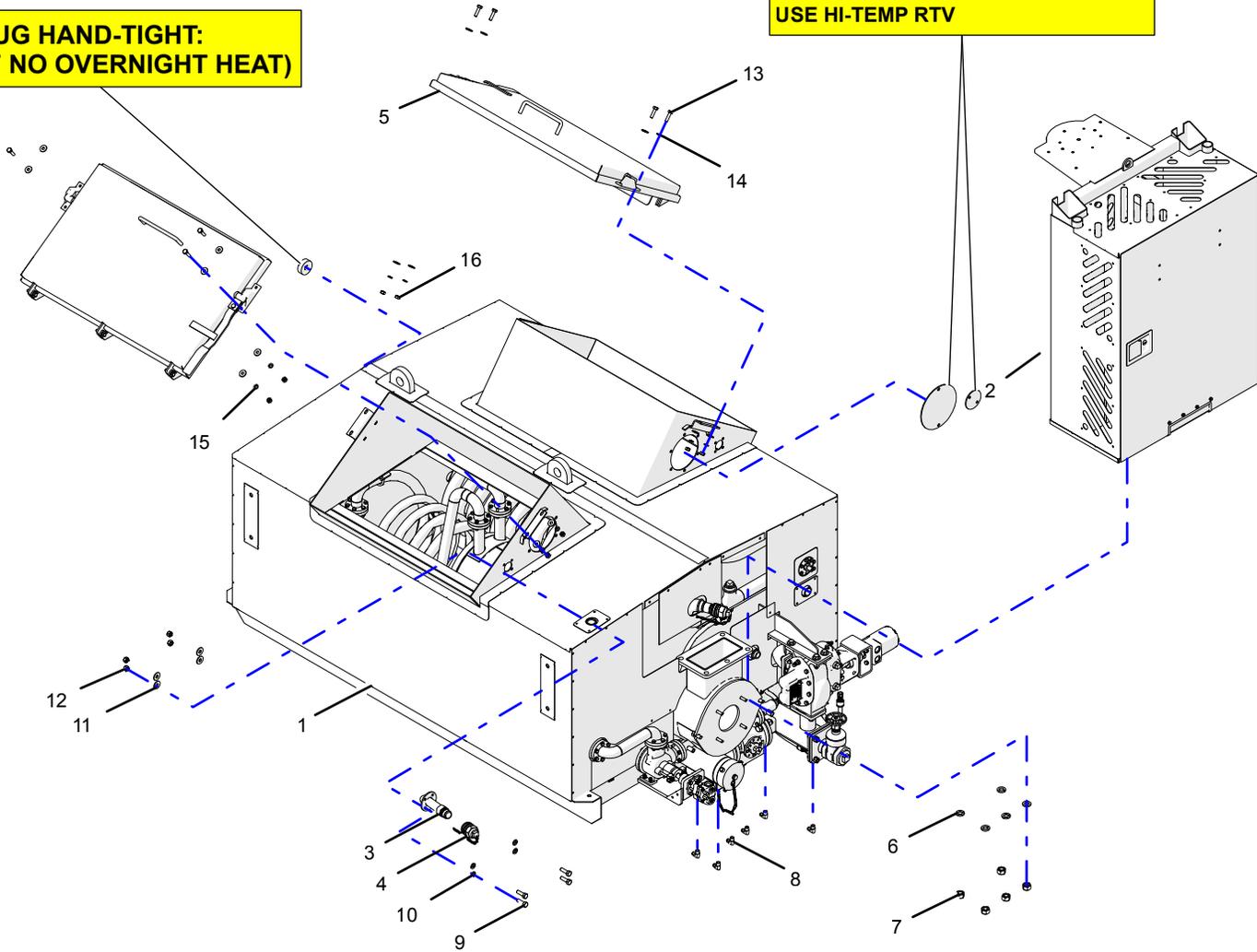
REF	PART NO	QTY	DESCRIPTION
1	218074	1	FRAME WDMT CS250/400C
2	MSC-80087	2	WHEEL AND TIRE ASM KRACKER
3	217678	1	MANIFOLD WDMT 1.50 X 4.00 X 7.00
4	218444	1	STAND WDMT KRACKER CONTROL BOX BC400
5	MCH-80087	2	AXLE RUBBER SUSP.7000# (ELC)250/400
6	207333	2	SAFETY CHAIN ASSY
7	MCH-80104	1	JACK TONGUE SIDE 5,000#
8	FAS-80138	2	FRAME HITCH BOLT KRKR
9	FAS-28637	20	WASHER USS FLAT GR5 ZINC .625 IN
10	FAS-28650	4	WASHER SPLIT LOCK GR5 ZINC .625 IN
11	FAS-28505	4	NUT HEX GR5 ZINC .625-11
12	FAS-28762	4	CAP SCR. HEX GR5 ZINC .50-13 X 1.50
13	FAS-28636	8	WASHER USS FLAT GR5 ZINC .500 IN
14	FAS-28649	4	WASHER SPLIT LOCK GR5 ZINC .50 IN

REF	PART NO	QTY	DESCRIPTION
15	FAS-28504	4	NUT HEX GR5 ZINC .50-13
16	FAS-28777A	8	CAP SCR. HEX GR8 ZINC .625-11 X 1.50
17	FAS-28541	8	NUT STOVER LOCK GR8 ZINC .625-11
18	BRK-80154	12	RETAINER TAB BRAKE LINE
19	90D6MJ-6MP	2	C5405X6
20	FAS-80148	16	NUT LUG (WHEEL) KRKR/TOW BAR .50-20
21	221191	1	BASE HYD TANK AND HIC MOUNT CS250/400C
22	221192	1	SUPPORT HYD TANK AND HIC MOUNT CS250/400C
23	BRK-80106	2	MOUNT SAFETY CHAIN
24	221063	1	SKIN BOTTOM RH W/ SUMP CUT-OUT 65 13/16 IN LG CS400C
25	221064	1	SKIN BOTTOM LH W/ SUMP CUT-OUT 65 13/16 IN LG CS400C
26	TNK-80274	4	2 X 2" PRODUCT TANK PATCH. KRKR
27	BRK-80143	1	HITCH

VIEW B - 400

**INSTALL PLUG HAND-TIGHT:
FIT-28288 (IF NO OVERNIGHT HEAT)**

**INSTALL BLOCK OFF
PLATES 221071-2 UNLESS
SPECIFIED DUAL WAND.
USE HI-TEMP RTV**



REF	PART NO	QTY	DESCRIPTION
1	217720	1	TANK WDMT & REAR PIPING ASM CS400C
2	218060	1	EXHAUST FLUE & HOSE BOX ECS250/400C
3	218072	1	HAND WAND HOSE RECIRCULATE LINE ASM BOLT-ON
4	221167	1	END CAP 1 IN SWIVEL DISCONNECT ASM W/ CHAIN
5	HSG-79014	2	TANK LID ASM ROLL OVER CS250/400
6	FAS-28649A	5	WASHER SPLIT LOCK GR8 ZINC .50 IN
7	FAS-28504A	5	NUT HEX GR8 ZINC .50-13
8	90D6MJ-6MP	6	C5405X6
9	FAS-28716	4	CAP SCR. HEX GR5 ZINC .313-18 X 1
10	FAS-28646	4	WASHER SPLIT LOCK GR5 ZINC .313 IN
11	FAS-28633	4	WASHER USS FLAT GR5 ZINC .313 IN
12	FAS-28501	4	NUT HEX GR5 ZINC .313-18
13	FAS-28702	7	CAP SCR. HEX GR5 ZINC .250-20 X 1
14	FAS-28632	16	WASHER USS FLAT GR5 ZINC .250 IN
15	FAS-28645	8	WASHER SPLIT LOCK GR5 ZINC .250 IN
16	FAS-28500	8	NUT HEX GR5 ZINC .250-20

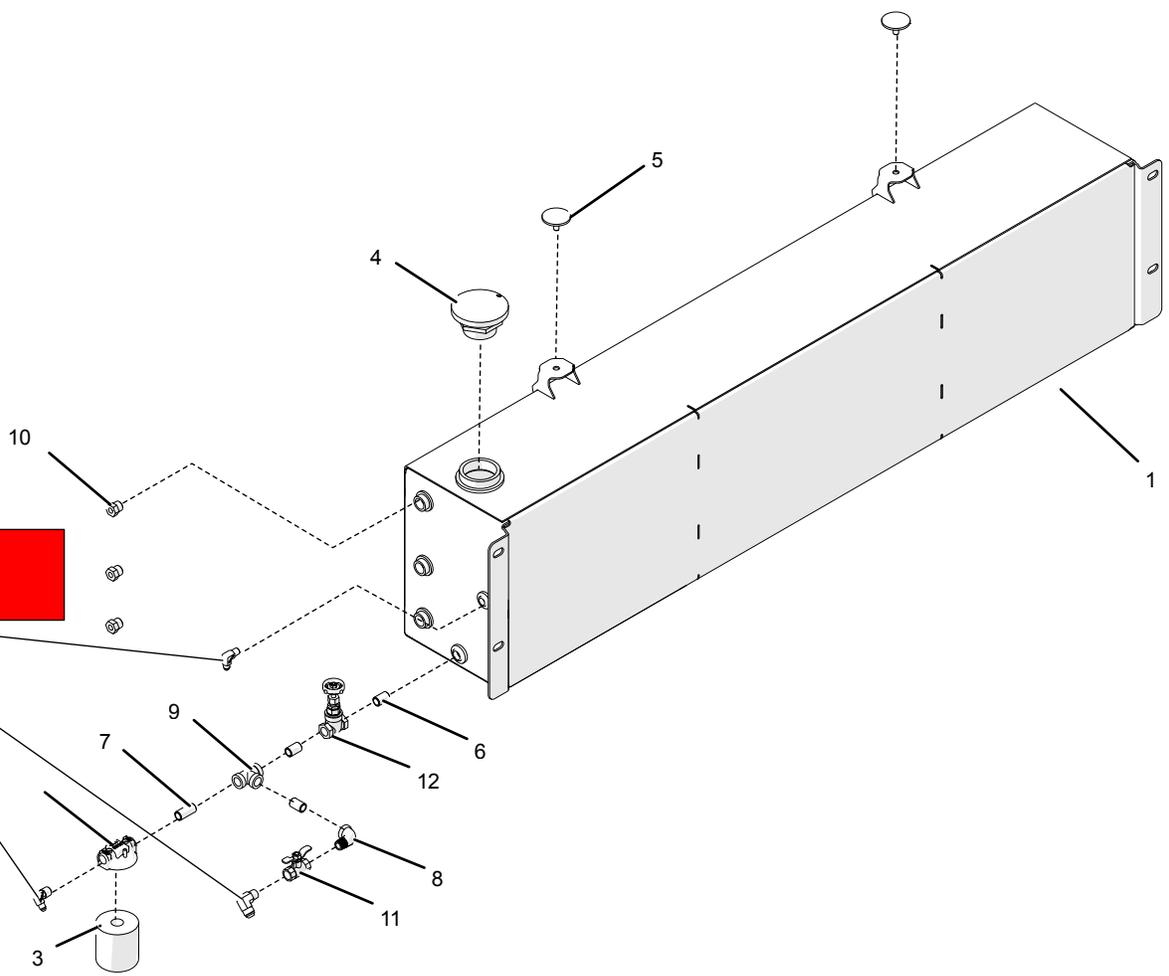


Diesel Tank Asm - 400 Gal.

221333

T
A
N
K

**JIC FITTINGS INCLUDED
IN ADAPTER KIT - 220998**

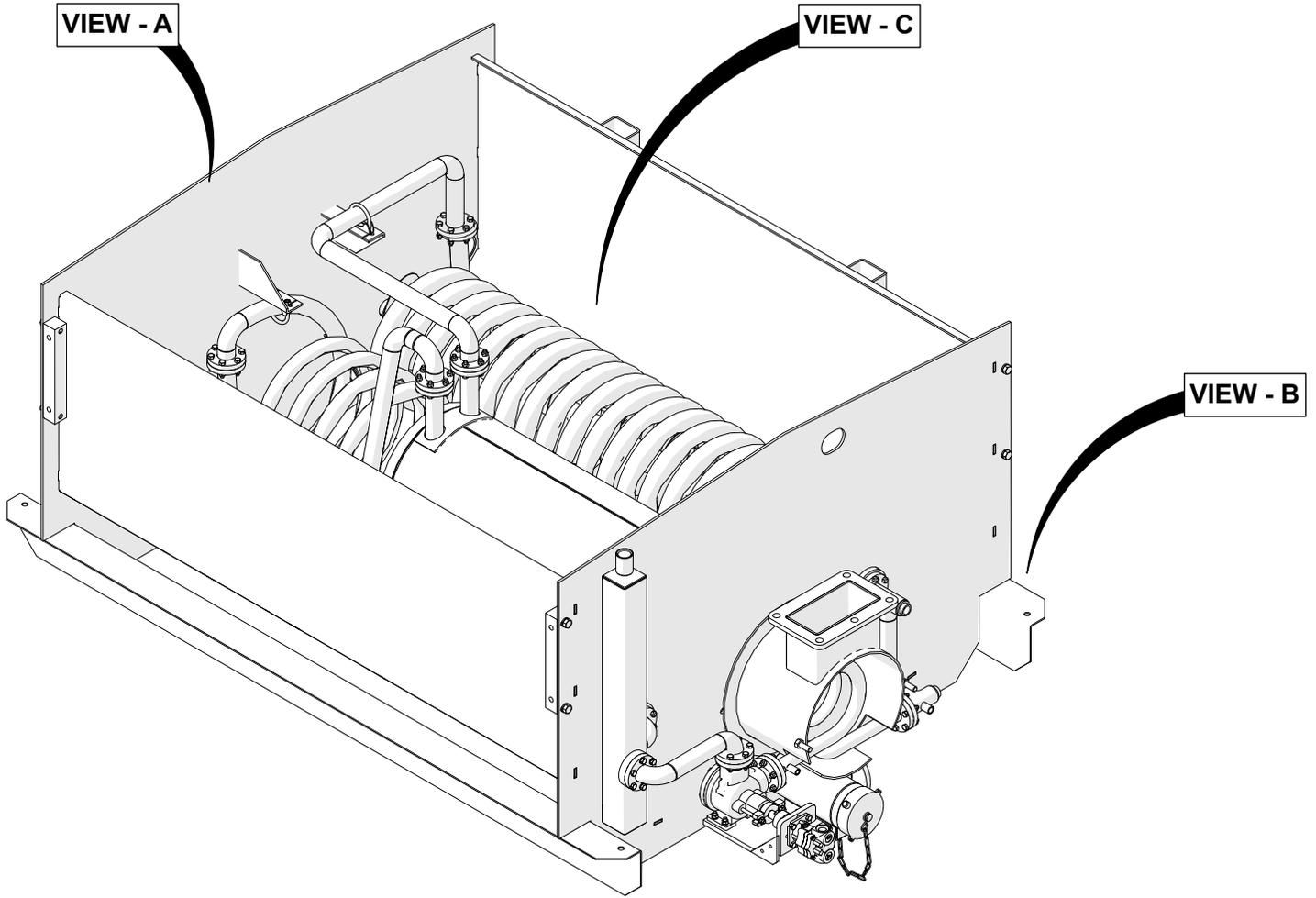


REF	PART NO	QTY	DESCRIPTION
1	220928	1	TANK WDMT DIESEL CS400C
2	217357	1	3/8" NPTF PORTS W/RETURN LINE, SPIN-ON FUEL FILTER HEAD
3	217358	1	10 MICRON FUEL FILTER FOR 217357
4	218800	1	CAP FUEL VENTED W/THREADED NECK
5	221231	2	BUMP STOP TANK LID BLACK .375 X 2 IN DIA
6	FIT-28002	3	NIPPLE SCH. 80 CW .375 X CLOSE
7	FIT-28013	1	NIPPLE SCH. 40 CW .375 X 1.5
8	FIT-28237	1	ELBOW STREET MAL 90DEG .375 IN
9	FIT-28252	1	TEE PIPE MAL .375 IN
10	MTR-80270	3	GAUGE SIGHT
11	VLV-29203	1	VALVE BALL (BRONZE) .375 TEE HANDLE
12	VLV-29206	1	VALVE GATE .375 IN



Tank Weldment - 400 Gal.

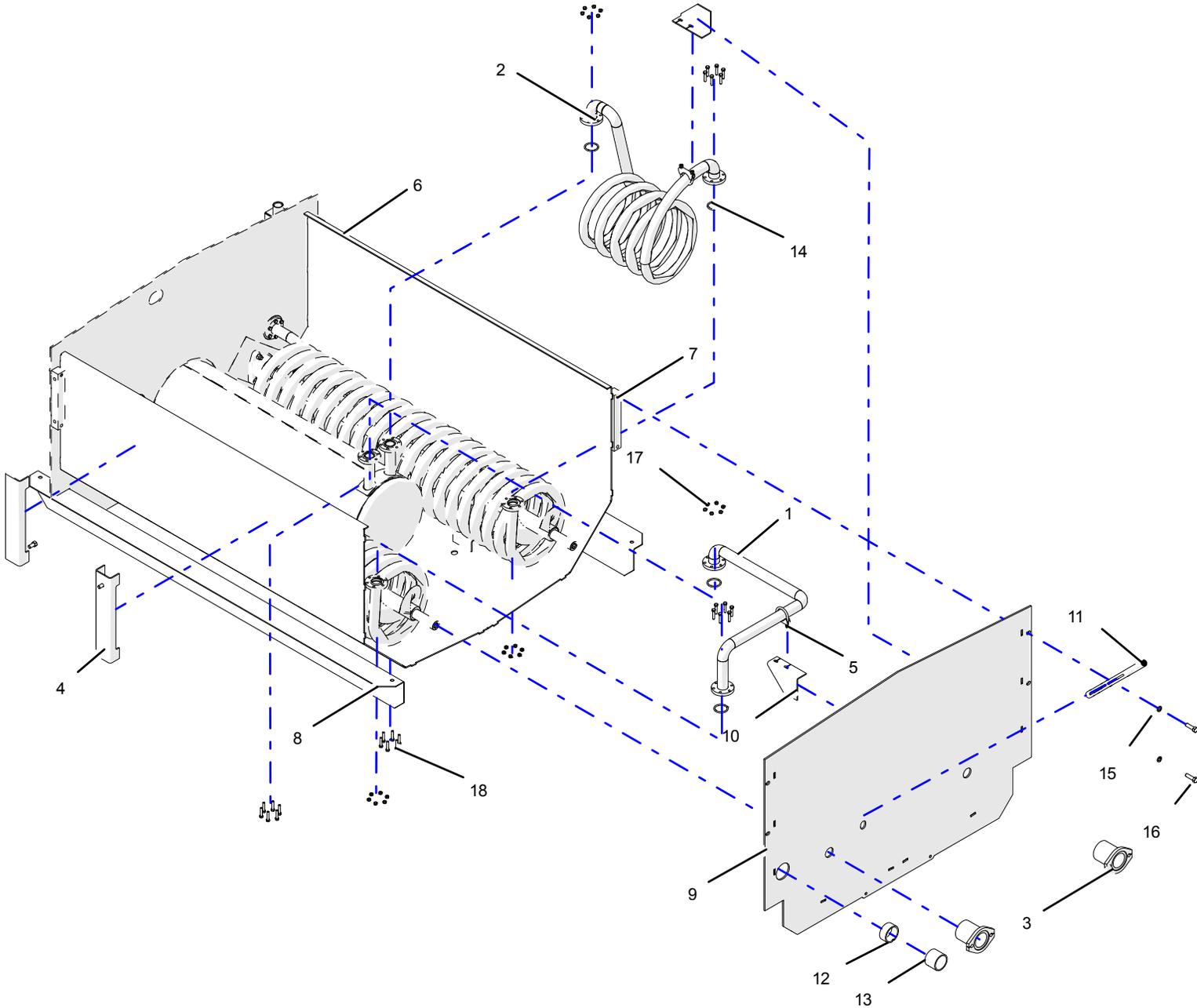
217654



T
A
N
K
W
E
L
D
M
E
N
T



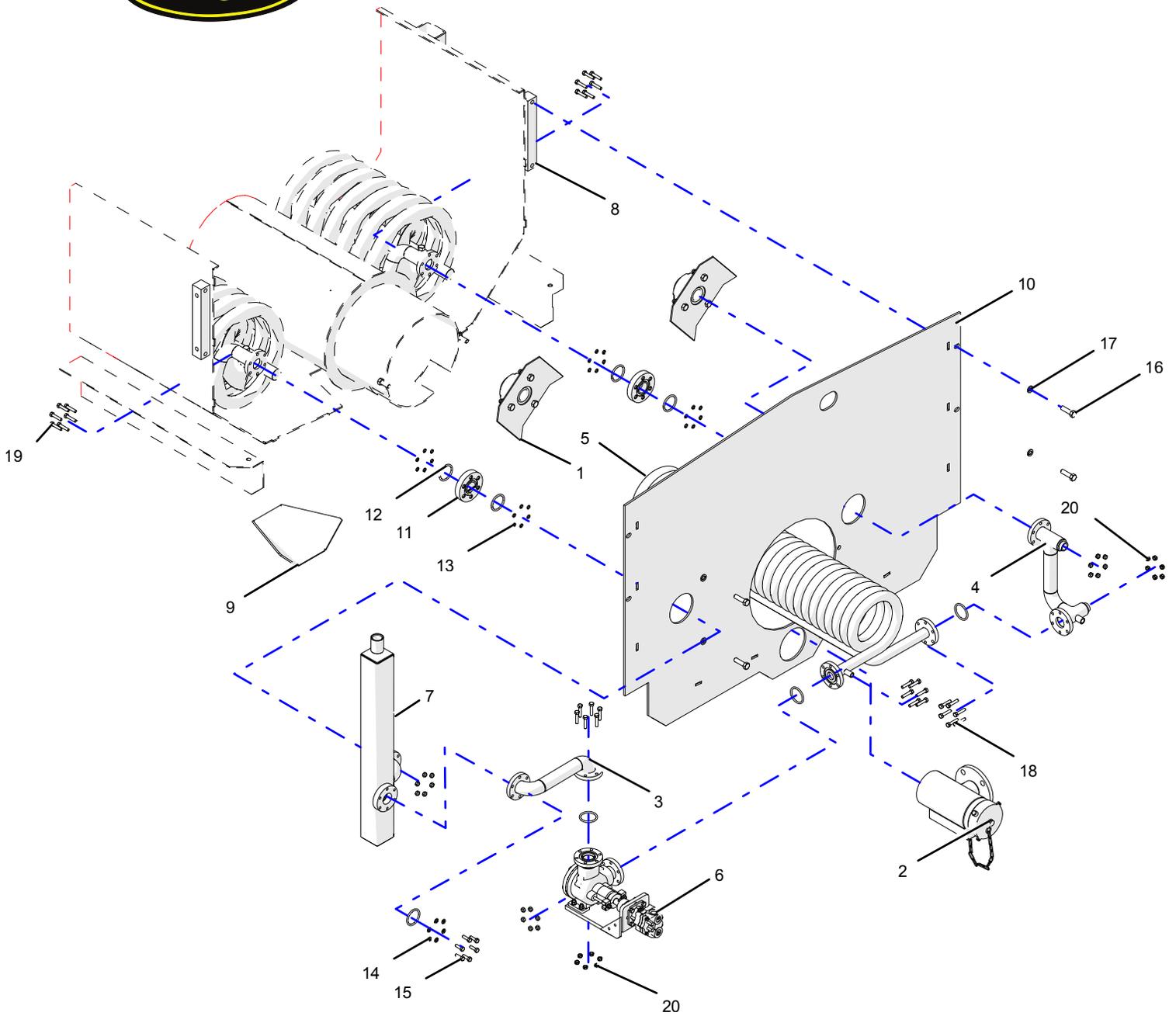
VIEW A - 400



REF	PART NO	QTY	DESCRIPTION
1	MSC-71216	1	CROSS-OVER LINE OR-RING 400
2	MSC-71212	1	COILING EXTENTION(ORNG FLG) 400
3	HSG-80342	2	SHAFT PACKING WDMT ASM
4	221226	2	ECS250/400 TOOLBOX MOUNTING BRACKET ASM
5	FAS-29363	2	CLAMP MUFFLER 1.75 IN
6	217655	1	SHELL ECS400 TANK WDMT CS400C
7	217658	1	MOUNT THREADED SIDE TANKS CS400C
8	222264	2	SUPPORT BASE TO FRAME TANK WDMT CS400C
9	220848	1	HEAD FRONT TANK WDMT CS250/400C
10	BRK-80383	2	SUPPORT, FRONT COILING CROSSOVER PIPE
11	HSG-80204	1	THERMOCOUPLE WELL
12	208628	1	PIPE SCH40 CW AJ3 2.5 x 1.25" LONG
13	FIT-28183	1	COUPLING MERCH. STEEL 2.00 IN
14	RNG-71032	4	O-RING VITN 2-328 1.88IDX2.25ODX.188(HT)
15	FAS-28649	2	WASHER SPLIT LOCK GR5 ZINC .50 IN
16	FAS-28763A	2	CAP SCR. HEX GR8 PLN. .50-13 X 1.750
17	FAS-28597	24	NUT STOVER LOCK GR8 ZINC .313-24
18	FAS-28868A	24	CAP SCR HEX GR8 .313-24 X 1.50



VIEW B - 400

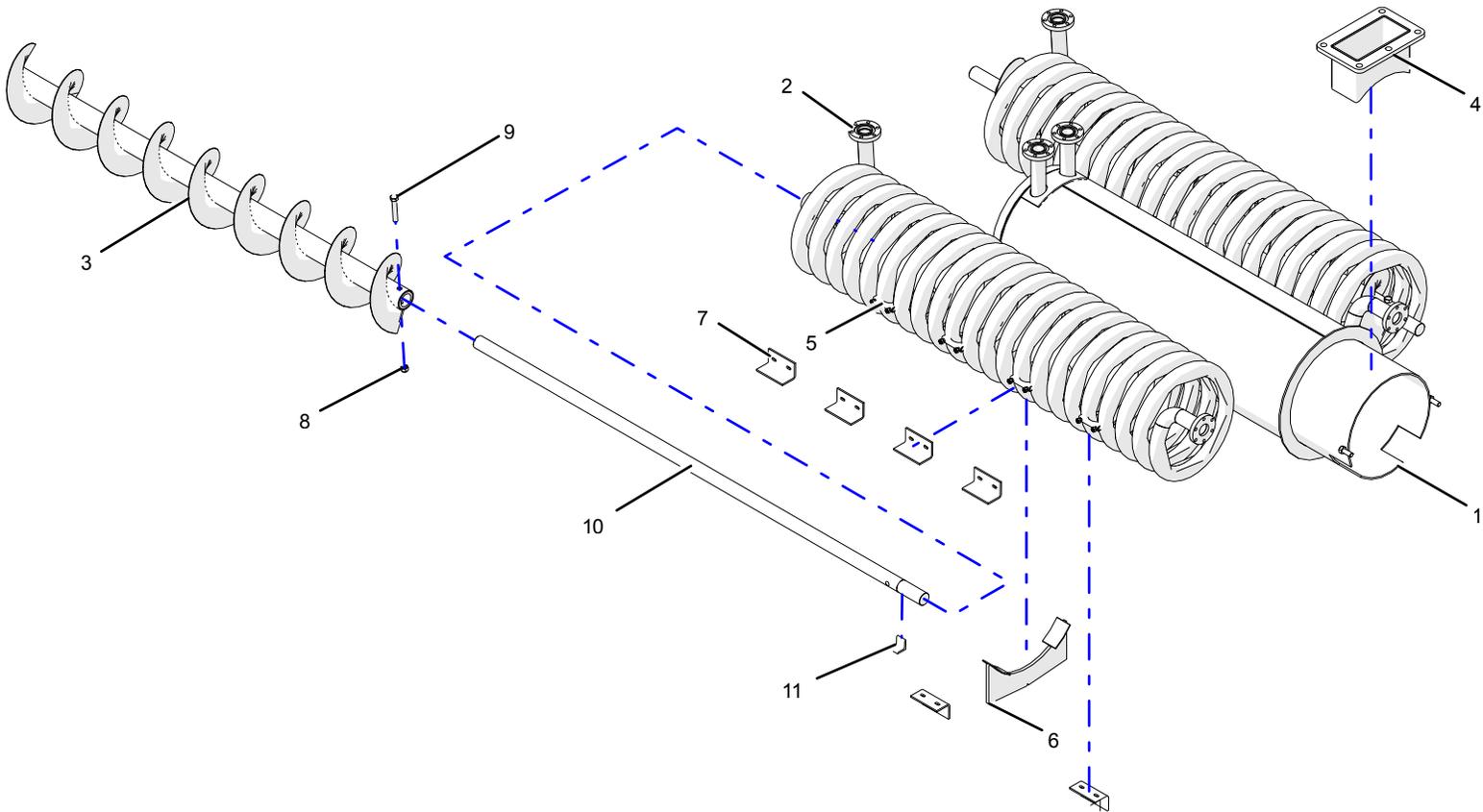


TANK WELDMENT

REF	PART NO	QTY	DESCRIPTION
1	BRK-80339	2	BEARING PLATE 3-BOLT ASM W/BRG 99/NEWER
2	220784	1	PIPE SUMP ASM CS250/400C
3	217679	1	PIPING INNER COIL TO HOT OIL RETURN SUCT.ASM ECS400C
4	217696	1	COILING SUPPLY LINE O-RING CS250/400C
5	221158	1	COILING ASM HEAT FLUE W/ HO PORT ECS250/400C
6	217686	1	HOT OIL PUMP & MOTOR ASM O-RNG FLG ECS250/400C
7	217680	1	HOT OIL RETURN AIR ELIMINATOR ASM CS250/400C
8	217658	2	MOUNT THREADED SIDE TANKS CS400C
9	217659	1	SUMP TANK WDMT ECS250/400C
10	220849	1	HEAD REAR TANK WDMT ECS250/400C
11	FIT-71022	2	FLANGE DBL O-RING GROOVE BULKHEAD
12	RNG-71032	8	O-RING VITN 2-328 1.88IDX2.25ODX.188(HT)
13	RNG-71031	24	O-RING VITON 2-109.313IDX.50DX.094(HT)
14	FAS-28646	6	WASHER SPLIT LOCK GR5 ZINC .313 IN
15	FAS-28716A	6	CAP SCR. HEX GR8 ZINC .313-18 X 1
16	FAS-28763A	4	CAP SCR. HEX GR8 PLN. .50-13 X 1.750
17	FAS-28649	4	WASHER SPLIT LOCK GR5 ZINC .50 IN
18	FAS-28868A	18	CAP SCR HEX GR8 .313-24 X 1.50
19	FAS-28871A	12	CAP SCR HEX GR8 ZINC .313-24 X 2.250
20	FAS-28597	30	NUT STOVER LOCK GR8 ZINC .313-24



VIEW C - 400



T
A
N
K

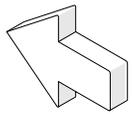
W
E
L
D
M
E
N
T

REF	PART NO	QTY	DESCRIPTION
1	HSG-71209	1	FLUE ASM HEAT FLUE DOMED HD(ORNG FLANGE)
2	MSC-71208	2	COILING O-RING PROD. TANK 400
3	MCH-80431	2	AUGER 8 X 60 W/1.563 DIA SHAFT (400)
4	221332	1	WDMT EXHAUST STACK RISER CS250C/CS400C
5	FAS-29363	12	CLAMP MUFFLER 1.75 IN
6	223021	1	FLUE SUPPORT WDMT ECS
7	BRK-80382	12	TANK COILING SUPPORT
8	FAS-28540	2	NUT STOVER LOCK GR8 ZINC .500-13
9	FAS-28766	2	CAP SCR. HEX GR5 ZINC .50-13 X 3
10	PTM-80425	2	AUGER SHAFT 400 (MANUF)
11	212836	2	ANGLE H.R. STRUCT.A36 .188 X 1.25 X 1.25 X 1.25 IN LG



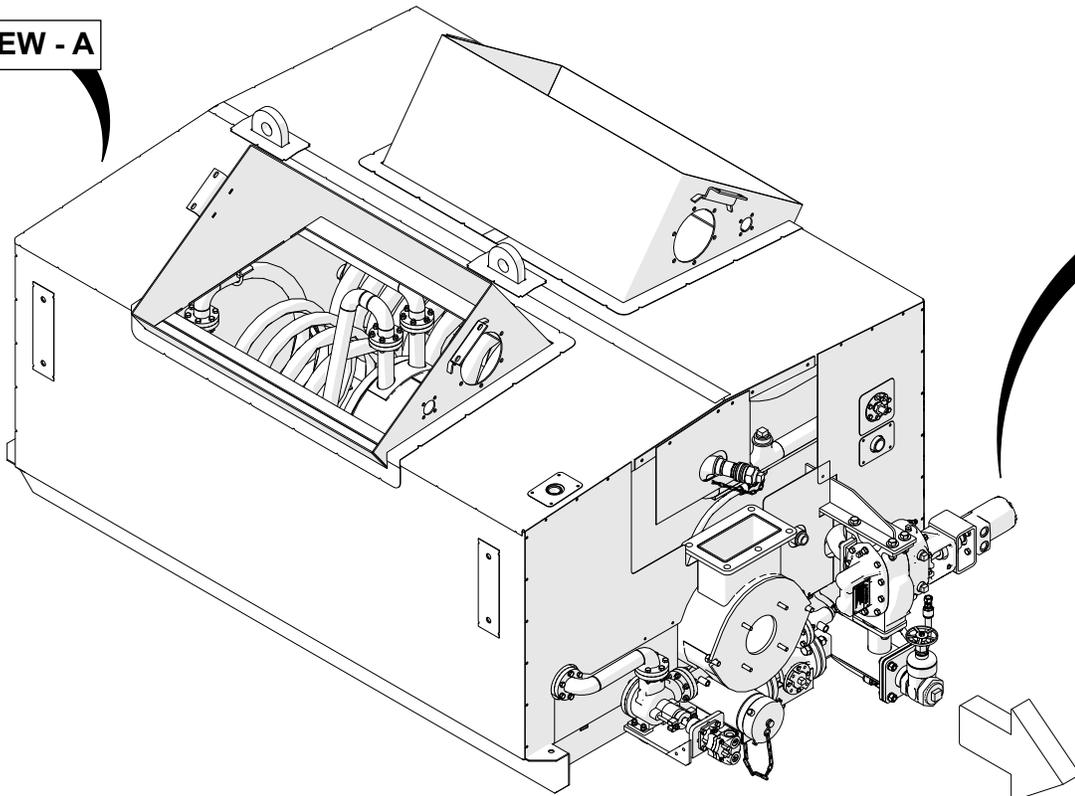
Tank Wdmt & Rear Piping Asm - CS400

217720



FRONT

VIEW - A



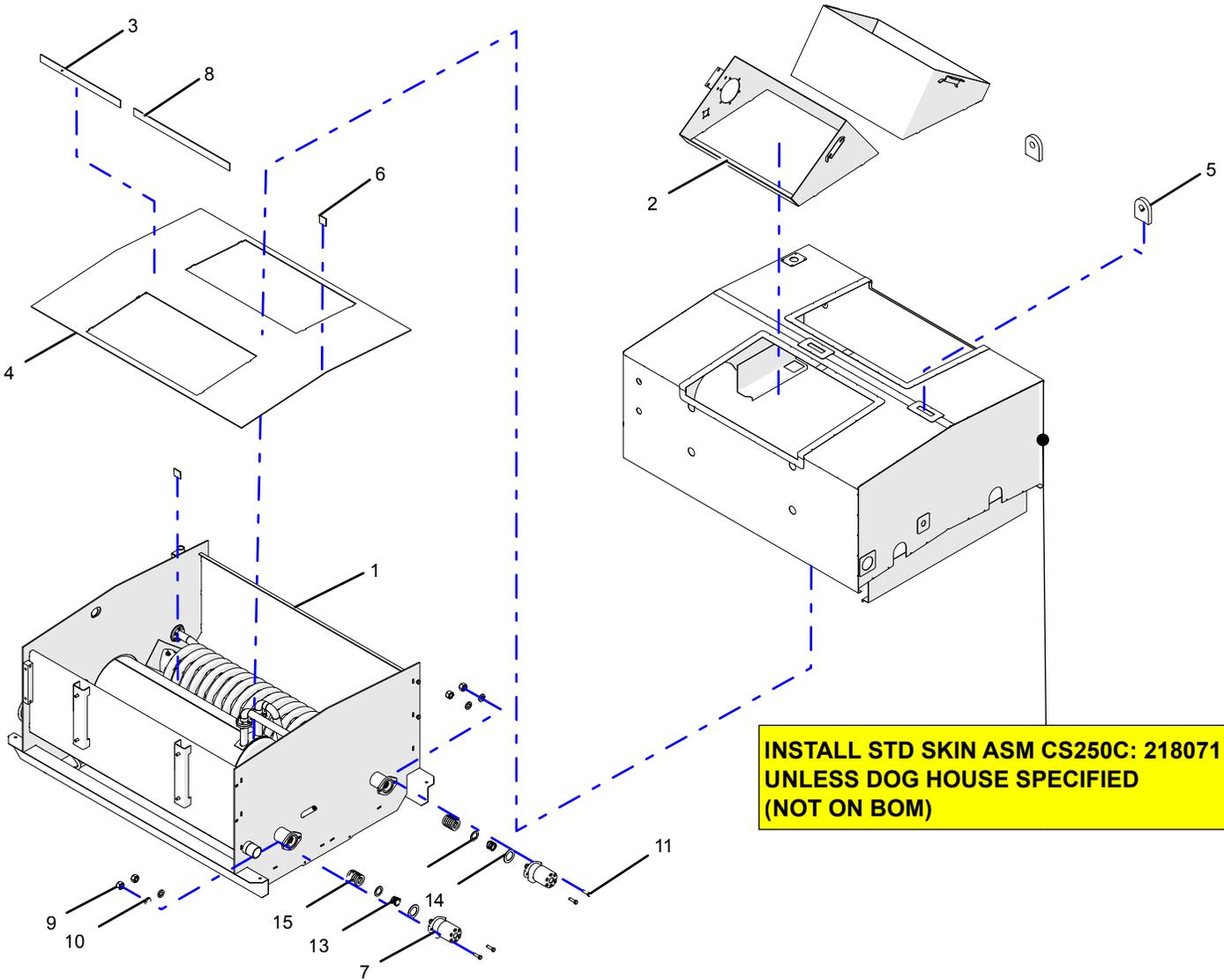
VIEW - B

REAR

T
A
N
K
W
E
L
D
M
E
N
T



VIEW A - 400



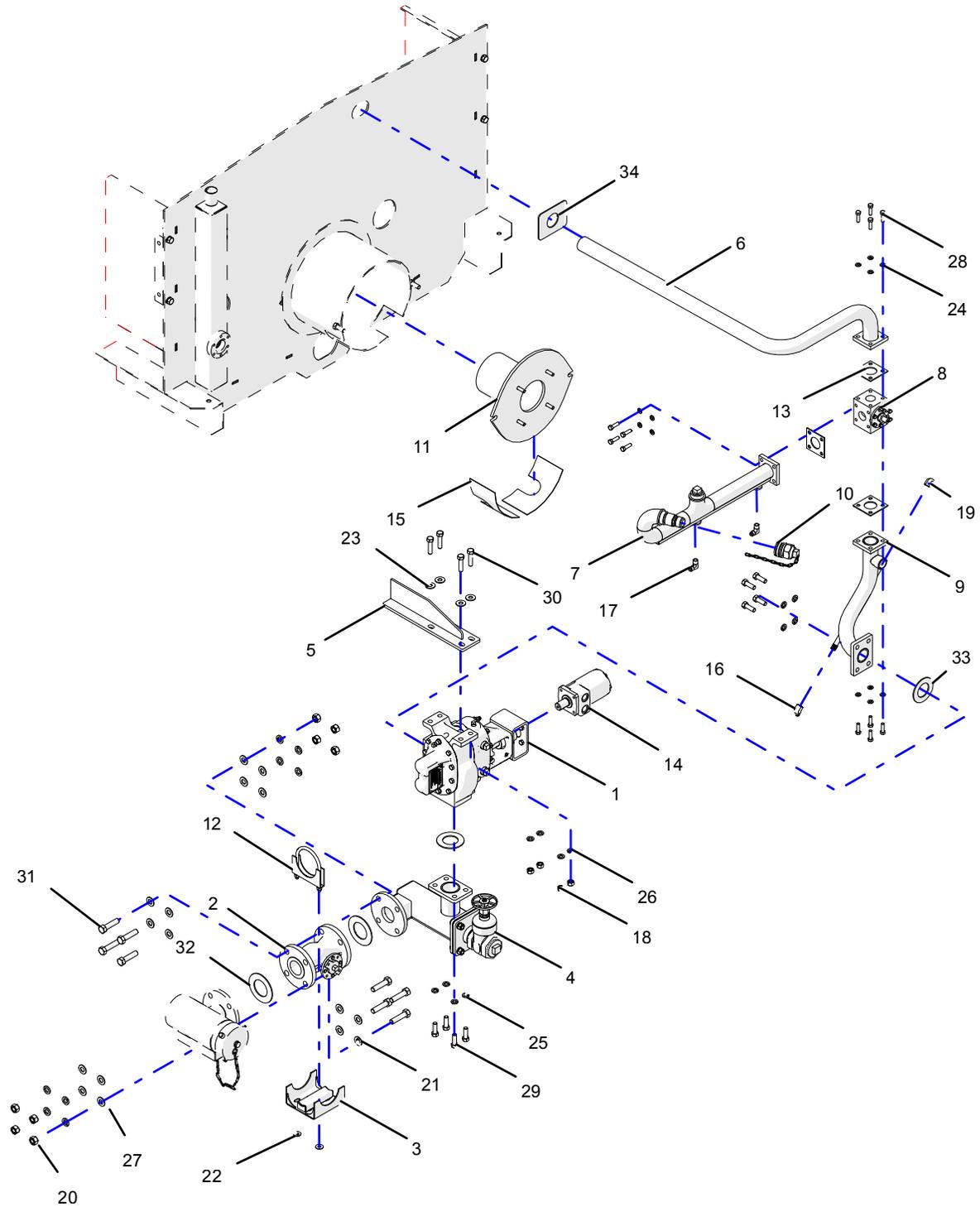
TANK WELDMENT

INSTALL STD SKIN ASM CS250C: 218071 UNLESS DOG HOUSE SPECIFIED (NOT ON BOM)

REF	PART NO	QTY	DESCRIPTION
1	217654	1	TANK WDMT CS400C
2	217723	1	RISER RH CS250C/400C
3	211765	1	BAR H.R. FLAT A36 .188 X 2 X 25 IN LG
4	217660	1	COVER CS400 TANK WDMT CS400C
5	217666	2	LIFT EYE CS400 TANK WDMT CS400C
6	217667	2	BAR H.R. FLAT A36 .188 X 2 X 2.00 IN LG
7	218326	2	AUGER MOTOR 100CC A-2 FLANGE SAE6B 1" SPLINED SHAFT OMPX100
8	221037	1	BAR H.R. FLAT A36 .188 X 2 X 30 IN LG
9	FAS-28504A	4	NUT HEX GR8 ZINC .50-13
10	FAS-28649A	4	WASHER SPLIT LOCK GR8 ZINC .50 IN
11	FAS-28763A	4	CAP SCR. HEX GR8 PLN. .50-13 X 1.750
12	FAS-80343	2	PACKING WASHER
13	FAS-80344	2	SPRING COMPRESSION
14	RNG-29054	2	GASKET 2 IN VALVE NA1001 MATERIAL (NONE STANDARD O.D.)
15	MSM-80357	1	GLAND PACKING MATERIAL FOR AUGER MOTORS CS250/400C



VIEW B - 400



TANK WELDMENT

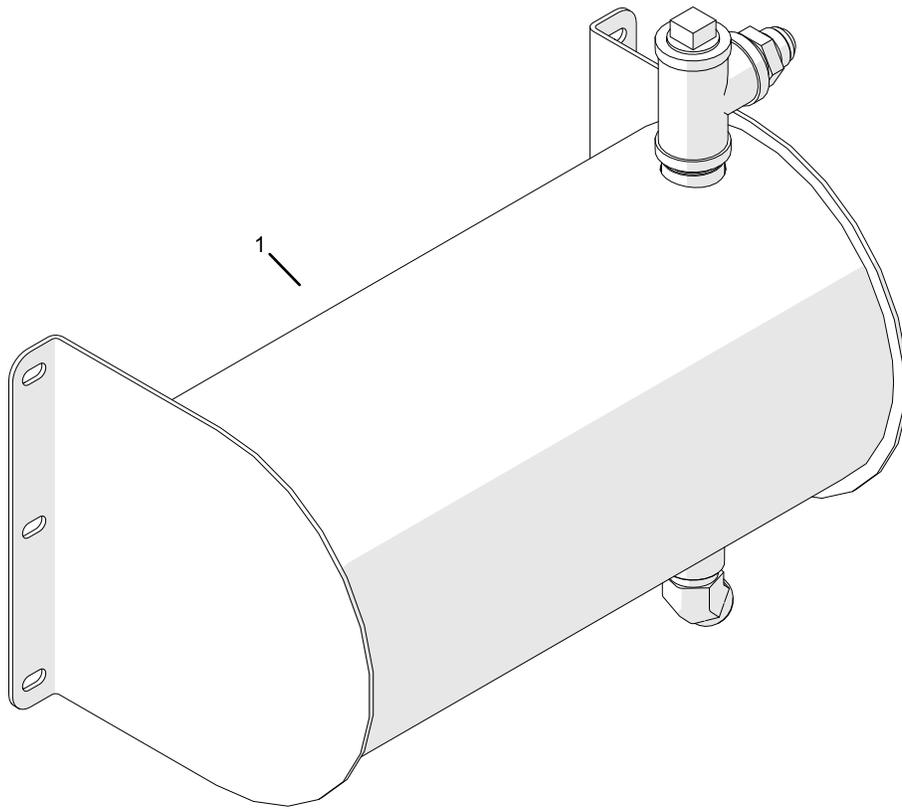
REF	PART NO	QTY	DESCRIPTION	REF	PART NO	QTY	DESCRIPTION
1	PMP-80305	1	ROPER PUMP 3611 (REPLACES PMP-81108)	18	FAS-28504A	4	NUT HEX GR8 ZINC .50-13
2	216996	1	VALVE BALL 2 IN FLANGED STEEL WITH S/S BALL/STEM	19	90D4FP-6MJ	1	C5455X6
3	217512	1	HEAT TRACE WDMT 2 IN VALVE	20	FAS-28505	8	NUT LOCKNUT GR8 .750-16
4	220777	1	PRODUCT STRAINER ASM CS250/400C	21	FAS-28625	16	WASHER SAE FLAT GR8 ZINC .625 IN
5	220788	1	PUMP MOUNT WDMT CS250/400C	22	FAS-28634	2	WASHER USS FLAT GR5 ZINC .375 IN
6	220853	1	RETURN PIPING WDMT CS250/400C	23	FAS-28636A	4	WASHER USS FLAT GR8 ZINC .500 IN
7	220794	1	PRODUCT HOSE HOOKUP PIPING WDMT CS250/400C	24	FAS-28647	12	WASHER SPLIT LOCK GR5 ZINC .375 IN
8	VLV-80050	1	VALVE ASM RH 3 WAY FLOW CNTRL 250 400	25	FAS-28649	8	WASHER SPLIT LOCK GR5 ZINC .50 IN
9	220871	1	PIPING WDMT PRODUCT PUMP TO 3-WAY VALVE CS250/400C	26	FAS-28649A	4	WASHER SPLIT LOCK GR8 ZINC .50 IN
10	221167	1	END CAP 1 IN SWIVEL DISCONNECT ASM W/ CHAIN	27	FAS-28650	8	WASHER SPLIT LOCK GR5 ZINC .625 IN
11	FIT-79011	1	BURNER FLUE FLG 2-HOLE DBL PUMP /SP200	28	FAS-28732	12	CAP SCR. HEX GR5 ZINC .375-16 X 1.250
12	FAS-53613	1	CLAMP MUFFLER 3.50 IN (SF350 ONLY ON CHP)	29	FAS-28762A	8	CAP SCR. HEX GR8 PLN. .50-13 X 1.50
13	216083	3	GASKET 3-WAY VALVE NA1001 MATERIAL	30	FAS-28764A	4	CAP SCR HEX GR8 ZINC .50-13 X 2
14	218325	1	MOTOR PRODUCT PUMP 6.10 CU/IN 100CC OMPX100	31	FAS-28780	8	CAP SCR HEX GR5 ZINC .625-11 X 2.50
15	221043	2	PATCH HEAT FLUE	32	RNG-29045	2	GASKET 4-1/8" OD X 2-3/8" ID X 1/8" NA1001 (2 IN ASME B16.21)
16	45D4FP-6MJ	1	MJXFPT	33	RNG-29075	2	GASKET 3 IN. DIXON CAP(R/A TRK)
17	90D6MJ-6MP	2	C5405X6X6/2501-06-06	34	TNK-80273	1	PATCH RECIRCULATE PIPE



Hot Oil Expansion Tank - 250/400

217698

C
O
N
T
R
O
L
S



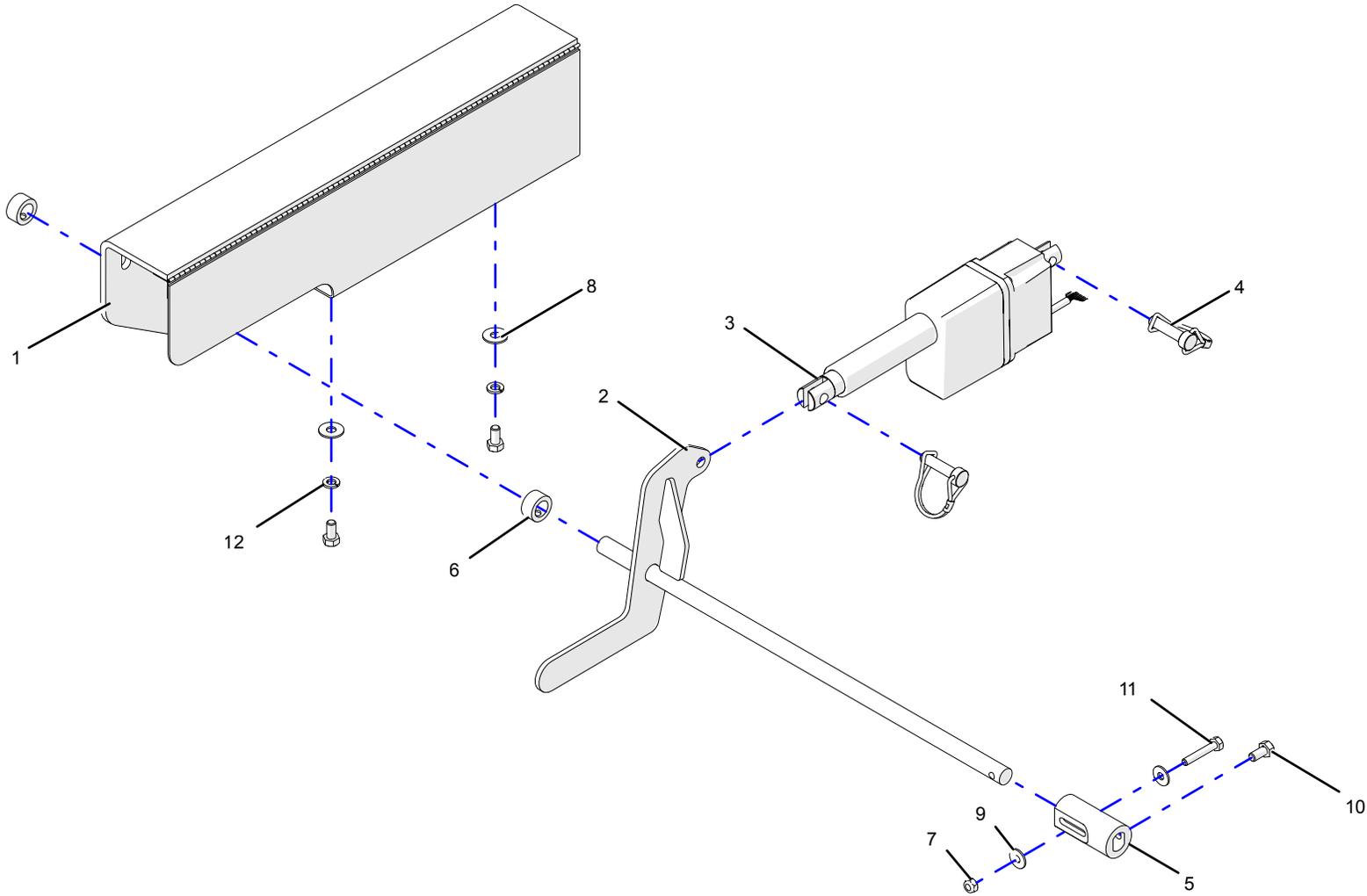
REF	PART NO	QTY	DESCRIPTION
1	217698	1	EXPANSION TANK-HOT OIL



Tank Valve Actuator Asm - 250/400

221199

CONTROLS



REF	PART NO	QTY	DESCRIPTION
1	221190	1	TANK VALVE ACTUATOR WDMT CS250/400C
2	221198	1	LEVER ROD WDMT TANK VALVE ACTUATOR CS250/400C
3	220827	1	TANK VALVE LINEAR ACTUATOR CS250/400C
4	221185	2	CLEVIS PIN .375 IN X 2 IN LG WIRE-LOCK
5	221197	1	ADAPTER ADJUSTABLE ROD TO TANK VALVE CS250/400C
6	FAS-26532	2	SET COLLAR .625 IN
7	FAS-28536	1	NUT STOVER LOCK GR8 ZINC .250-20
8	FAS-28633	2	WASHER USS FLAT GR5 ZINC .313 IN
9	FAS-28632	2	WASHER USS FLAT GR5 ZINC .250 IN
10	FAS-28983	3	CAP SCR. HEX GR5 ZINC .313-18 X .625
11	FAS-28704	1	CAP SCR. HEX GR5 ZINC .250-20 X 1.50
12	FAS-28646	2	WASHER SPLIT LOCK GR5 ZINC .313 IN

INSTALL ON MACHINE AS SHOWN:

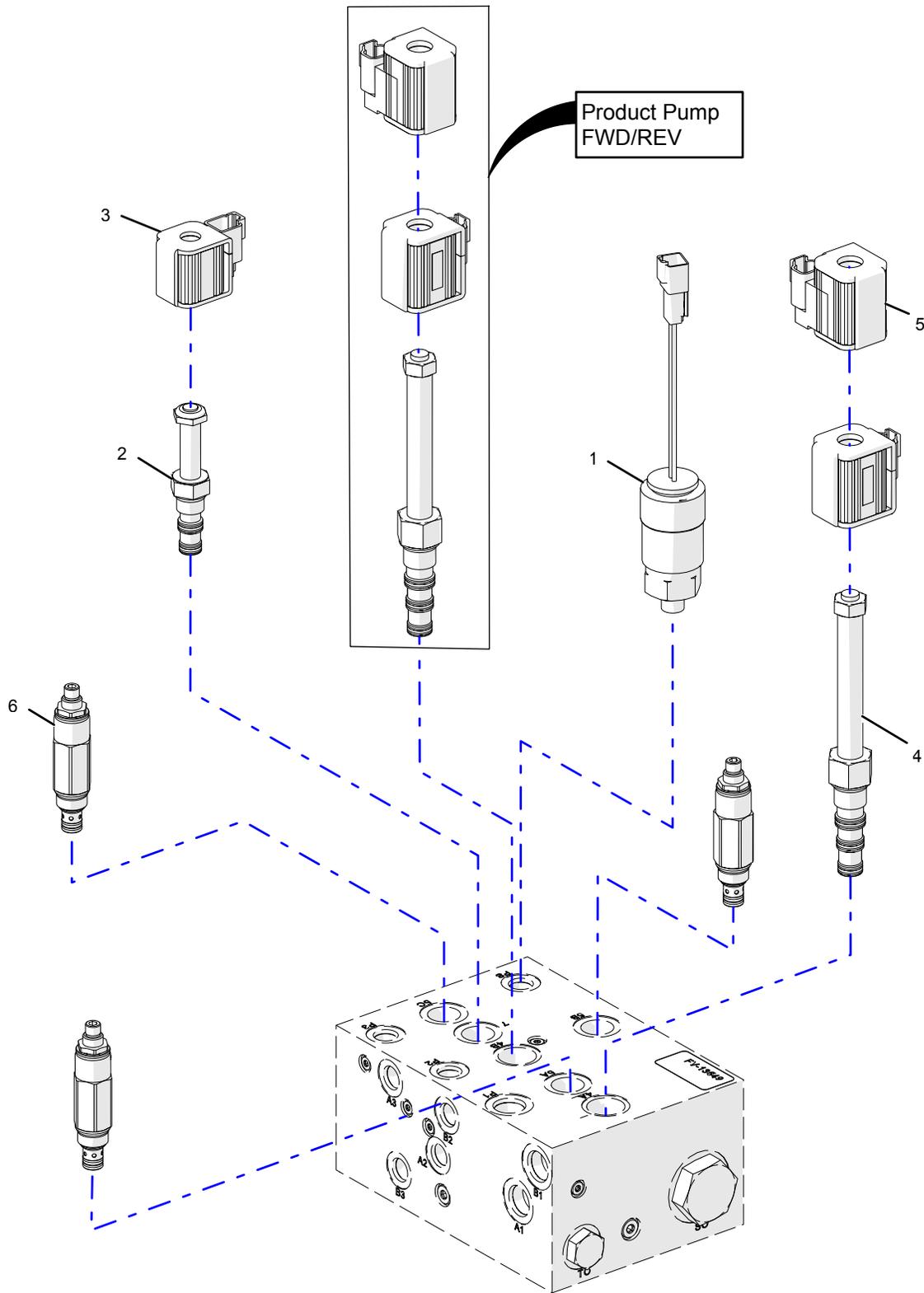
- 1. INSTALL ROD ON TANK VALVE AND ADJUST BASE ON BUMPER BEFORE SECURING**
- 2. INSTALL ACTUATOR AND USE SET COLLARS TO KEEP LEVER ARM INLINE WITH ACTUATOR**
- 3. TIGHTEN ADJUSTER BOLT TO SECURE ROD TO TANK VALVE ADAPTER**



Valve Asm w/ Manifold 12V SAE-16ORB 2500 PSI

220958

CONTROLS



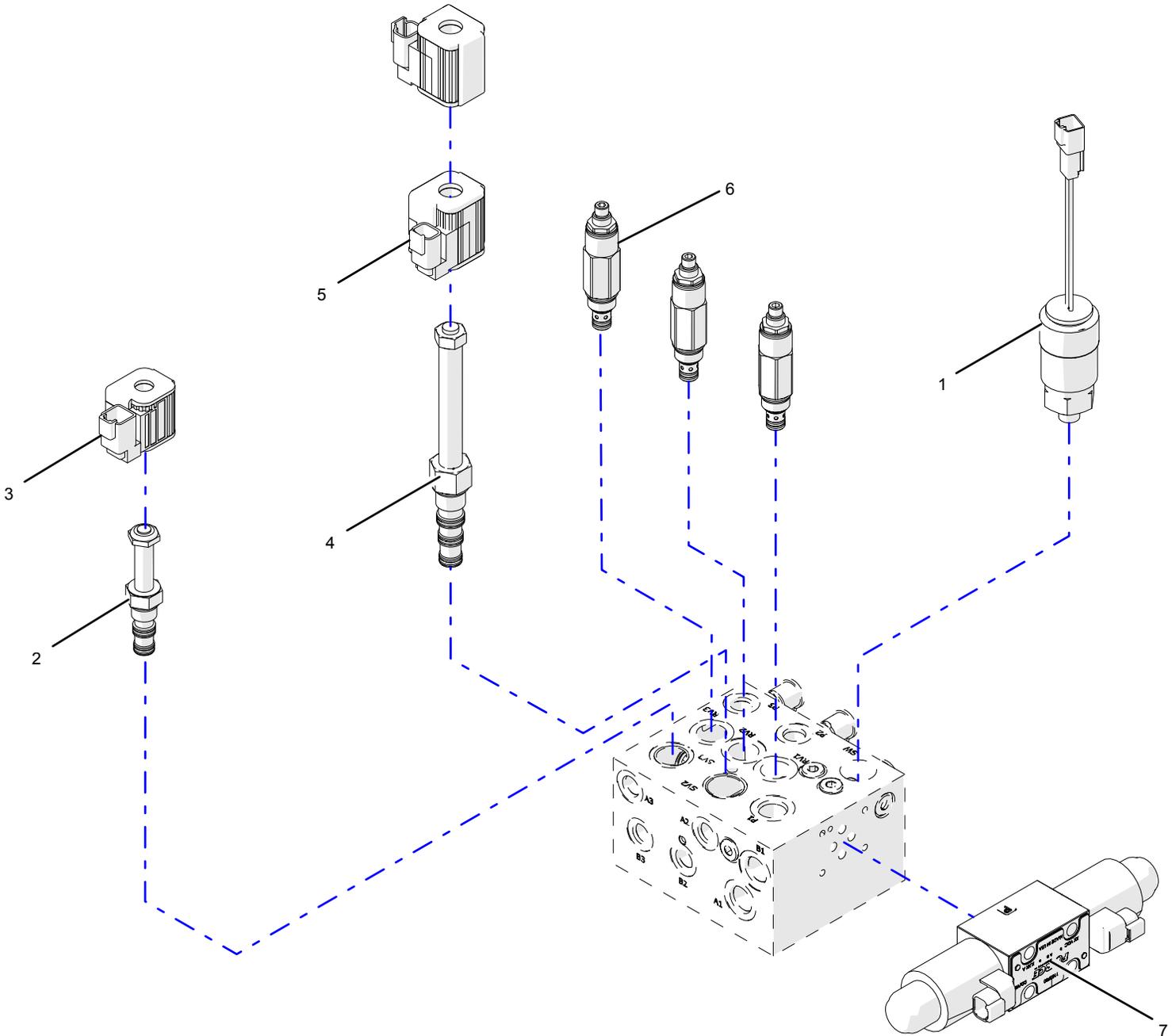
NOTE:
THIS BILL OF MATERIAL APPLICABLE FOR EC-1075 AND BELOW SERIES

REF	PART NO	QTY	DESCRIPTION
1	220944	1	AUGER HYD PRESSURE SWITCH
2	220945	1	HOT OIL SOLENOID VALVE W/ MANUAL OVERRIDE
3	220946	1	HOT OIL SOLENOID VALVE COIL 0.5"
4	220947	2	AUGER SOLENOID VALVE W/ MANUAL OVERRIDE
5	220963	4	AUGER SOLENOID VALVE COIL 0.625"
6	220964	3	RELIEF VALVE 12 GPM 1000-3000 PSI SCREW ADJUST

Valve Asm w/ Manifold HIC 2023 ECS Replaces 220958

221967

CONTROLS

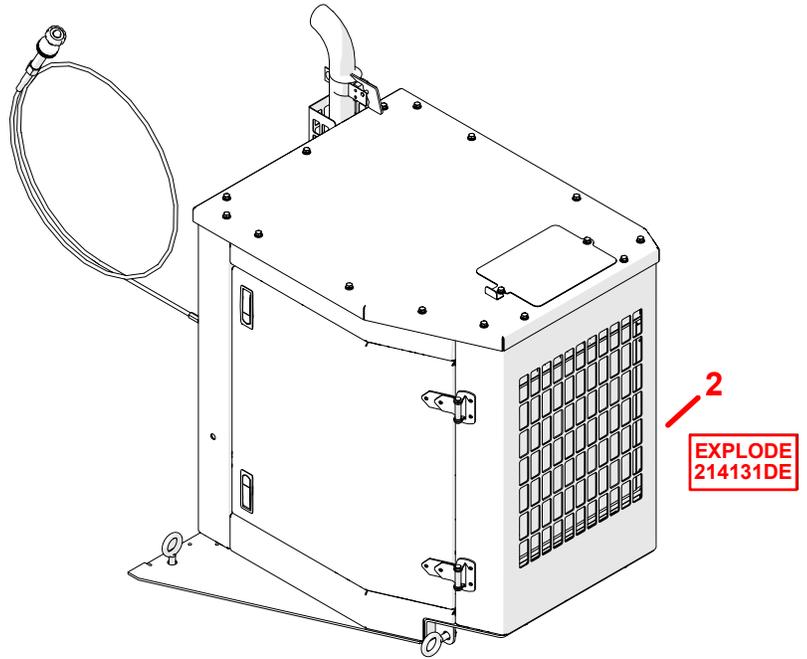
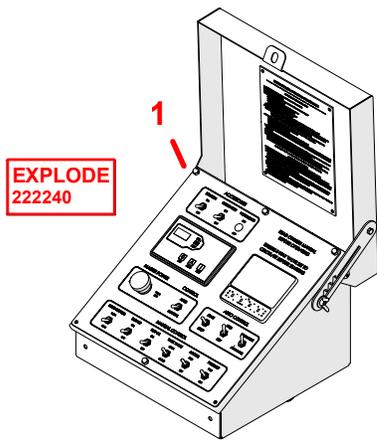


REF	PART NO	QTY	DESCRIPTION
1	220944	1	AUGER HYD PRESSURE SWITCH
2	301147	1	VALVE HOT OIL CART CS MANIFOLD ASM 221967
3	301148	1	COIL HOT OIL VALVE CS MANIFOLD ASM 221967
4	301145	1	VALVE AUGER CART CS MANIFOLD ASM 221967
5	301146	2	COIL AUGER VALVE CS MANIFOLD ASM 221967
6	220964	3	RELIEF VALVE CS MANIFOLD ASM 221967
7	301149	1	PRODUCT VALVE D03 CS MANIFOLD ASM 221967



Isuzu Engine Option Package

222243



CONTROLS

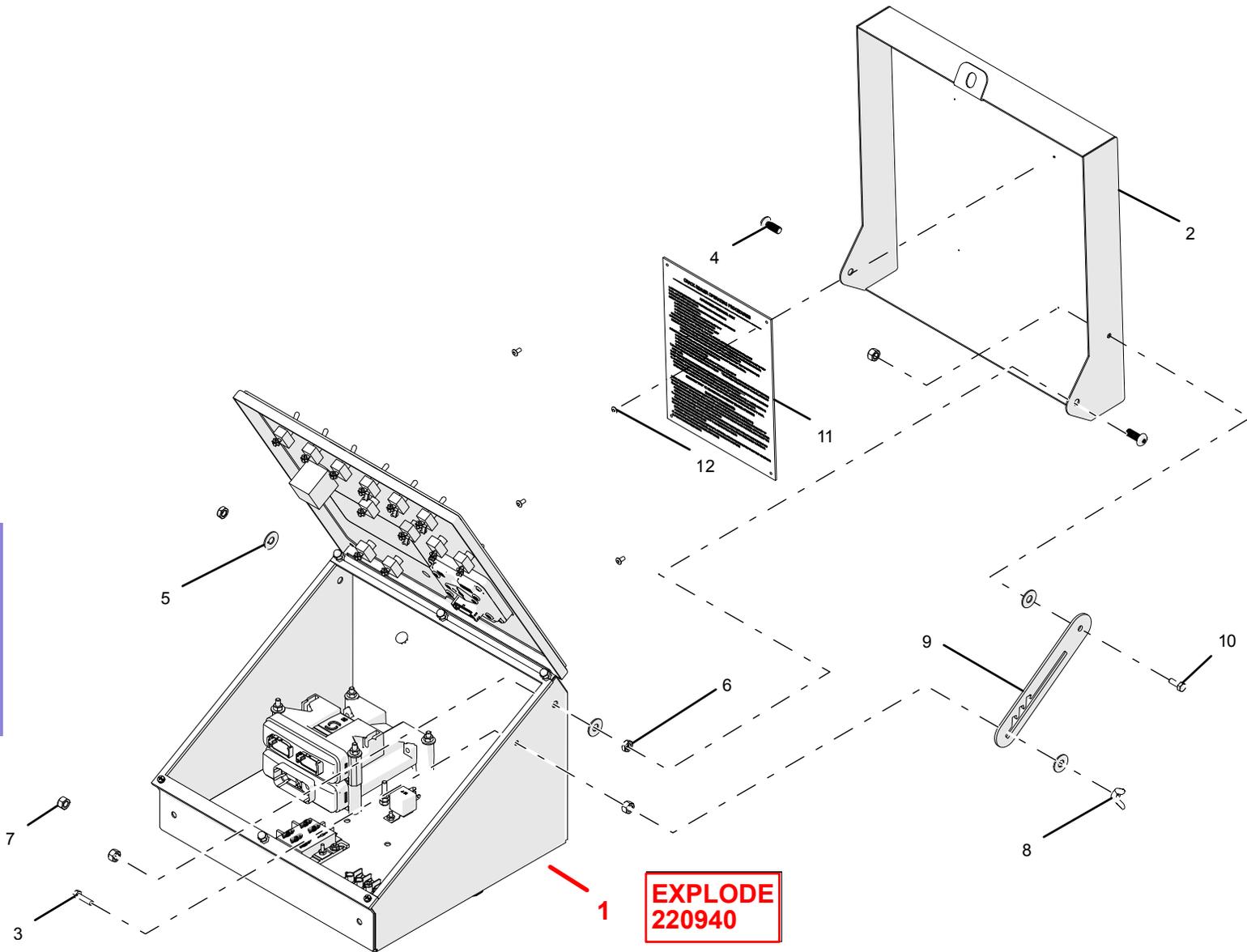
REF	PART NO	QTY	DESCRIPTION
1	222240	168	ISUZU ENGINE CONTROL BOX
2	214131DE	34	ENGINE DIESEL ISUZU ENCL W/DIGI 23.9 HP @ 3000 RPM 3CH1/SDZP1-500 T4F



Isuzu Engine Control Box

222240

CONTROLS



**EXPLODE
220940**

REF	PART NO	QTY	DESCRIPTION
1	220940	2	CONTROL BOX ASM PLUS1 MUNICIPAL CS
2	220939	1	CS CONTROL BOX LID WELDMENT
3	FAS-28702	1	CAP SCR. HEX GR5 ZINC .250-20 X 1
4	202723	2	MACHINE SECURITY SCREW .375-16 X 1"
5	FAS-28634	4	WASHER USS FLAT GR5 ZINC .375 IN
6	FAS-28514	2	NUT JAM HEX GR5 ZINC .375-16
7	FAS-28502	4	NUT HEX GR5 ZINC .375-16
8	FAS-28490	1	WING NUT.250-20
9	217623	1	ADJUSTABLE LID STOP
10	FAS-28701	1	CAP SCR. HEX GR5 ZINC .250-20 X .750
11	221104	1	DECAL ECS OPERATING PROCEDURES MUNICIPAL
12	FAS-29893	4	RIVET POP .125 IN X .250 IN ALUM BINDING

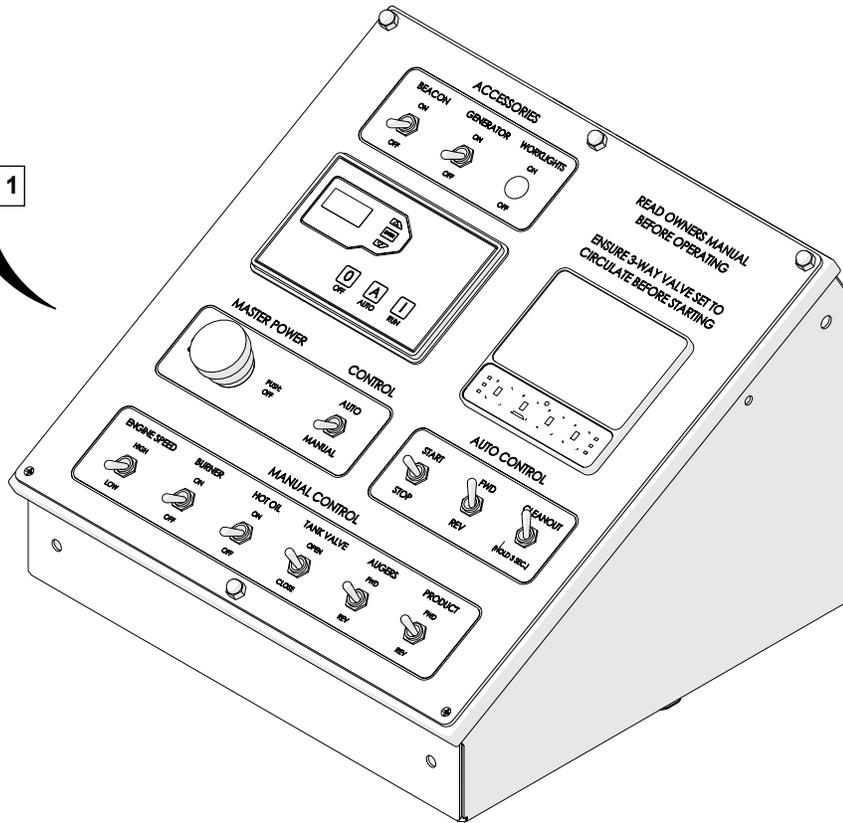


Isuzu Control Box Plus 1 Municipal

220940

CONTROLS

VIEW - 1



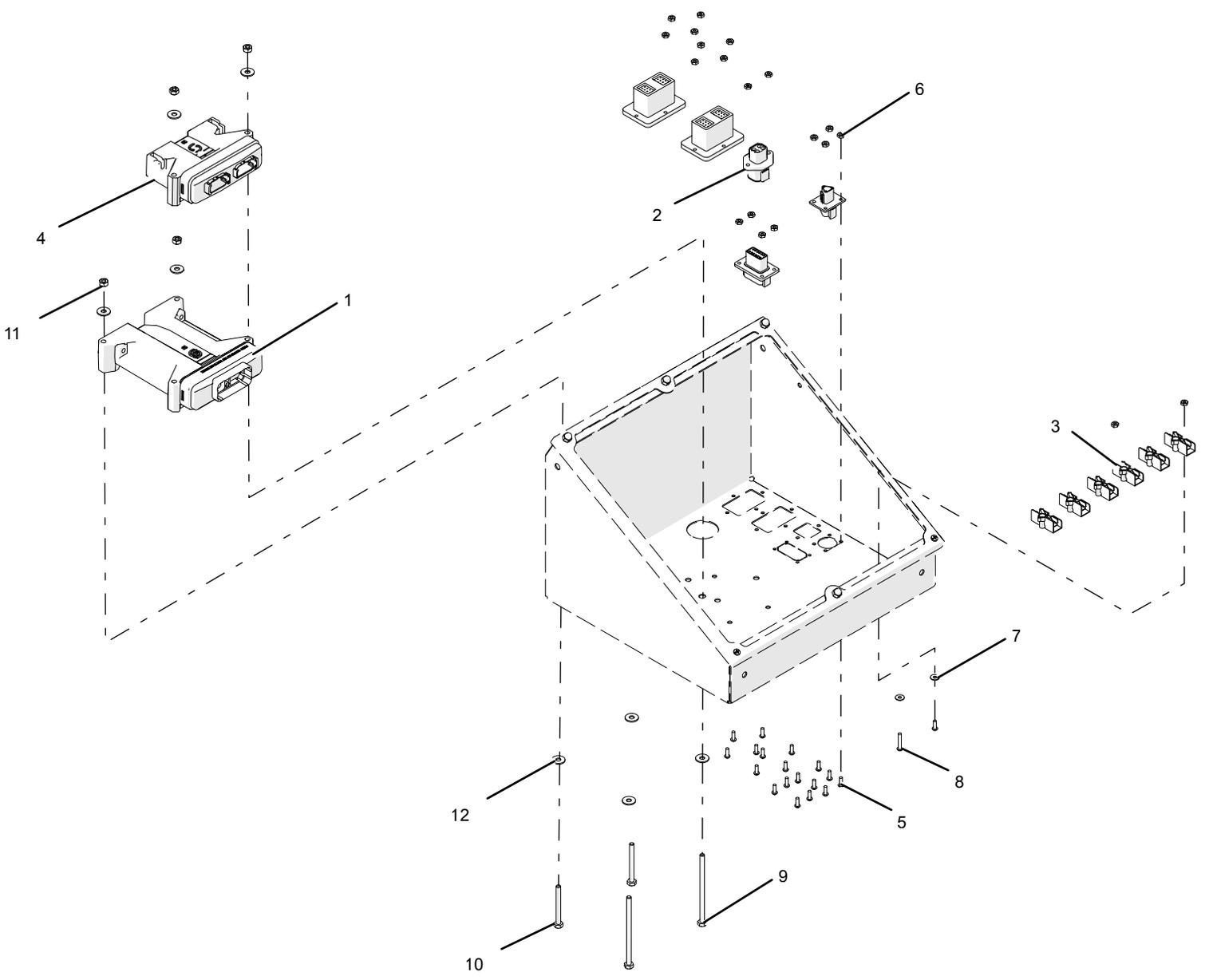
VIEW - 2



Isuzu Control Box Plus 1 Municipal

VIEW - 1

CONTROLS

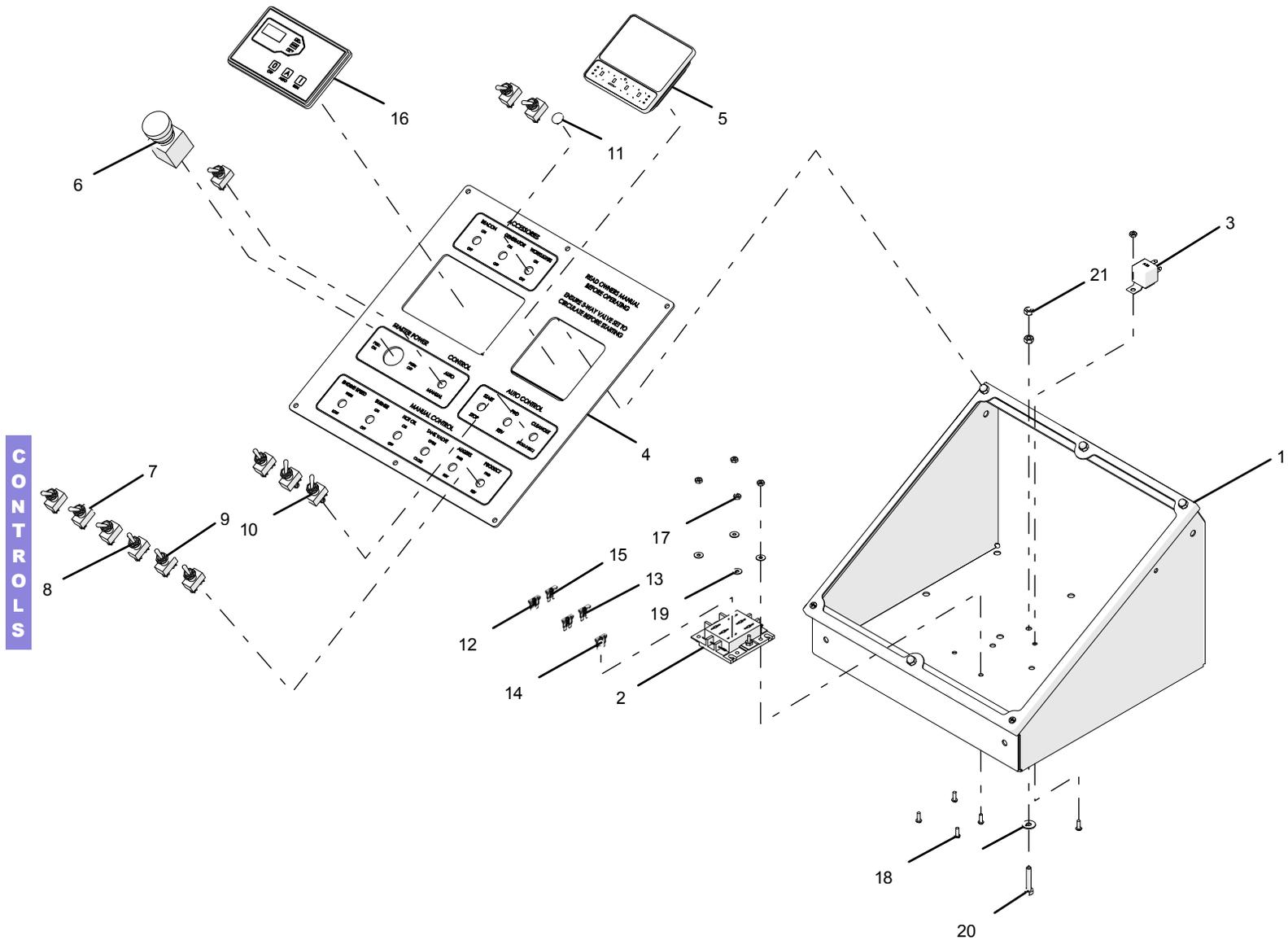


REF	PART NO	QTY	DESCRIPTION
1	221134	1	PLUS1 NODE 9 AUTO MC050-110
2	221020	1	SCHE PLUS1 AUTO CS (2021)
3	200710	6	TERMINAL BLOCK SECT 6-CONN TAB(MTB1-TB)
4	221133	1	PLUS1 NODE 16 AUTO CS IX024-010
5	FAS-25813	19	SCREW MACHINE ROUND HEAD #8-32 X .50
6	FAS-28552	20	NUT HEX GR5 ZINC #8-32
7	FAS-28623	2	WASHER FLAT SAE #8 (GOES WITH FAS-25810)
8	FAS-25815	1	SCREW MACHINE ROUND HEAD #8-32 X 1 IN
9	FAS-25479	2	CAP SCR SOC HD PLN .250-20 X 4.50
10	FAS-28707	2	CAP SCR. HEX GR5 ZINC .250-20 X 2.50
11	FAS-28500	4	NUT HEX GR5 ZINC .250-20
12	FAS-28632	8	WASHER USS FLAT GR5 ZINC .250 IN



Isuzu Control Box Plus 1 Municipal

VIEW - 2



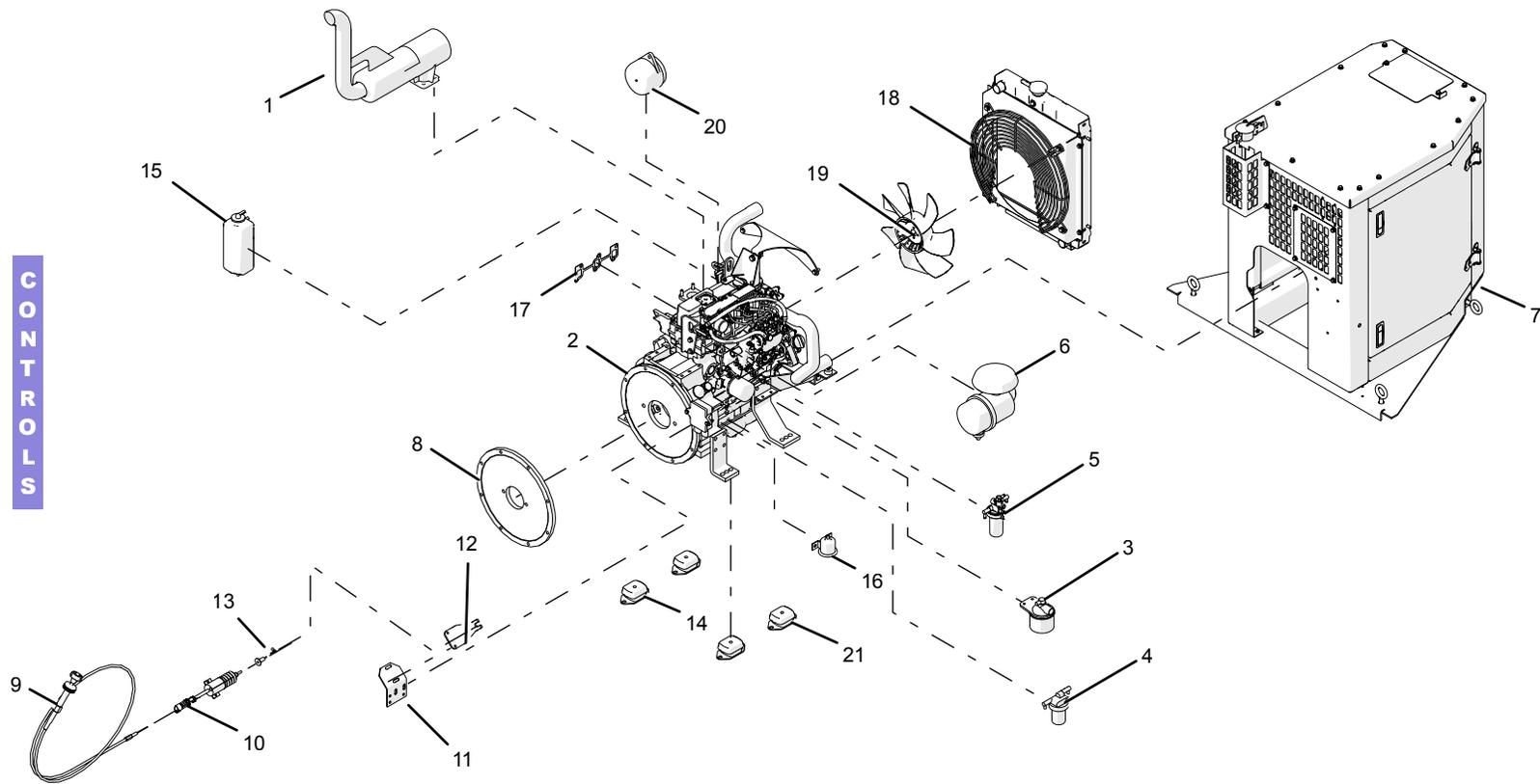
REF	PART NO	QTY	DESCRIPTION
1	218706	1	BOX CONTROL CS2020 CS 16X16X11
2	206356	1	FUSE BLOCK 6-CIR 30 AMP PER CIR 160 AMP
3	ELC-24270	1	RELAY 70 AMP POWER MODIFIED W/MOV**
4	220943	1	CONTROL PANEL PLUS1 CS 2021
5	221135	1	PLUS1 NODE 8 DISPLAY AUTO CS DM430
6	ELC-74404	1	EMERGENCY STOP SWITCH
7	ELC-24275	6	SWITCH ON/OFF ONE POLE TOGGLE SEALED
8	ELC-24274A	2	SWITCH SEALED ONE POLE MOM ON/OFF/ MOM ON
9	ELC-24272A	2	SWITCH TOGGLE SEALED ON-OFF-ON SPDT
10	202719	1	SWITCH MOM ON/OFF SPST TOGGLE SEALED
11	FIT-24219	1	PLUG BUTTON CHROME .50 IN
12	206357	1	FUSE BLADE TYPE ATO 20 AMP

REF	PART NO	QTY	DESCRIPTION
13	215535	1	FUSE BLADE TYPE ATO 25 AMP
14	ELC-80426	1	FUSE BLADE TYPE ATO 5 AMP BURNERS
15	ELC-80429	2	FUSE BLADE TYPE ATO 10 AMP
16	221391	1	DYNAGEN TG410 ENGINE CONTROLLER ISUZU
17	FAS-28552	5	NUT HEX GR5 ZINC #8-32
18	FAS-25813	5	SCREW MACHINE ROUND HEAD #8-32 X .50
19	FAS-28623	4	WASHER FLAT SAE #8 (GOES WITH FAS-25810)
20	FAS-28704	1	CAP SCR. HEX GR5 ZINC .250-20 X 1.50
21	FAS-28500	2	NUT HEX GR5 ZINC .250-20
22	FAS-28632	1	WASHER USS FLAT GR5 ZINC .250 IN



Isuzu Diesel Engine w/ Digi 23.9 HP @ 3000 RPM 3CH 1/SDZP 1-500 T4F

214131DE



REF	PART NO	QTY	DESCRIPTION
1	206860	1	MUFFLER ENGINE FOR 3CB1-CZP03 & 3CH1-SDZP1 ISUZU ENGINE FACTORY
2	214131	1	ENGINE DIESEL ISUZU 23.9 HP @ 3000 RPM 3CH1/SDZP1-500 T4 FINAL 07/2015
3	216827	1	FILTER ASSY OIL T4F ISUZU 3CH1/SDZP1-500
4	216828	1	FILTER ELEMENT IN LINE ON T4F ISUZU 3CH1/SDZP1-500
5	216829	1	FILTER ELEMENT FUEL SPIN ON T4F ISUZU 3CH1/SDZP1-500
6	216830	1	FILTER AIR PRMYRS T4F ISUZU 3CH1/SDZP1-500
7	218664	1	ENGINE ENCLOSURE ISUZU CS2020 250/400 FOR 214131
8	218889	1	HUB PUMP DRIVE HONOR TO ISUZU ENGINE CS
9	221379	1	THROTTLE CABLE 10FT VERNIER FOR 214131 ANALOG ISUZU
10	221380	1	THROTTLE SOLENOID WIRED W/ CONNECTOR CS250/400C
11	221533	1	THROTTLE CONTROL BRACKET CS 2021+

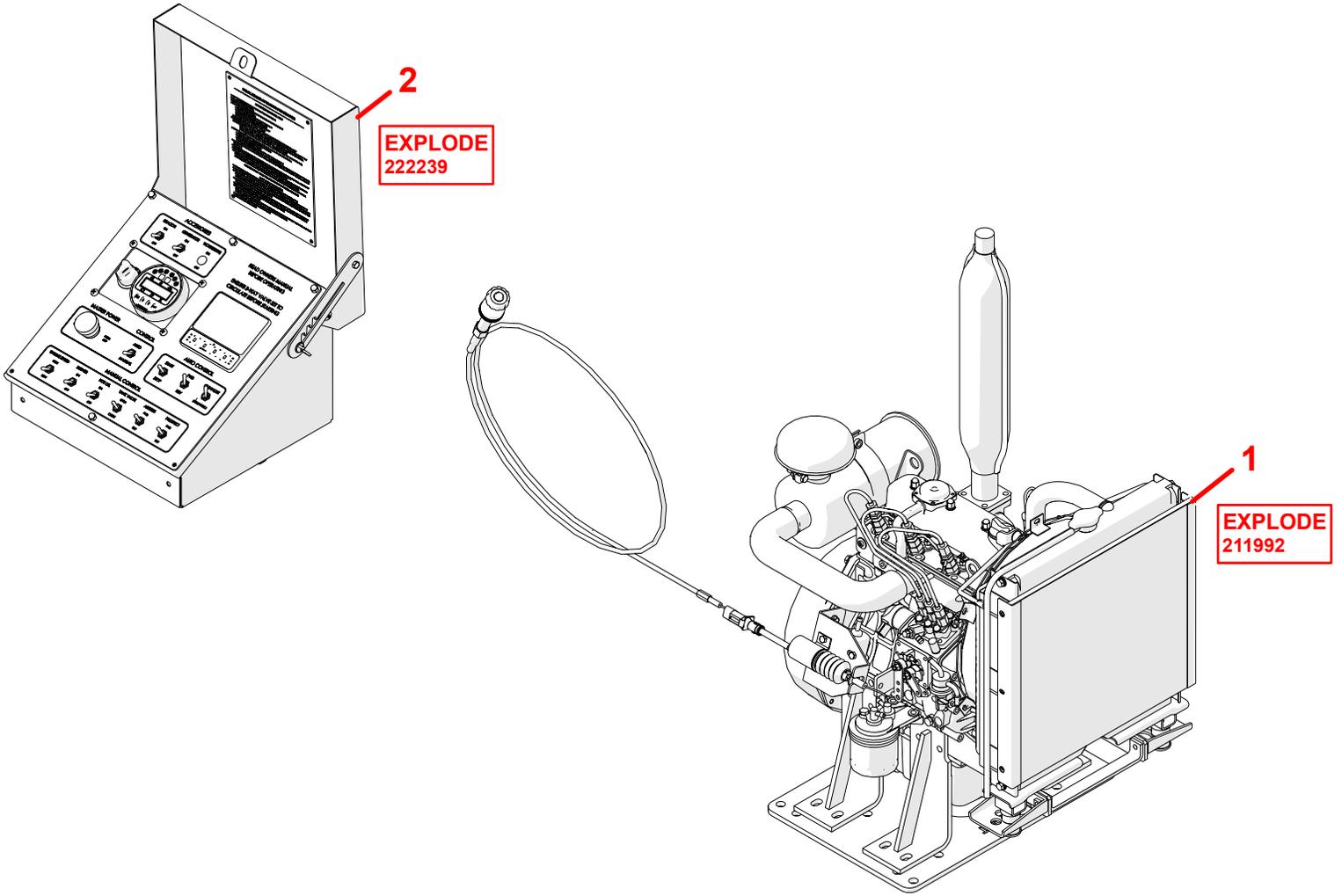
REF	PART NO	QTY	DESCRIPTION
12	221534	1	SOLENOID STOP BRACKET CS THROTTLE 2021+
13	221536	1	THROTTLE CABLE CS 2021+
14	222242	2	MOTOR MOUNT LOW PROFILE NEOPRENE 65 220LBS CZP01
15	MSC-80668	1	ISUZU COOLANT RECOVERY TANK 3LB1 * & 3CH1
16	PMP-26389	1	PUMP ASSY FUEL
17	RNG-80669	1	GASKET ISUZU 3CB1 CA P01 EXHAUST MANIFOLD TO MUFFLER
18	207941	1	RADIATOR ISUZU 3CB1-CZP01&3CH1 ENGINE METAL TOP
19	210054	1	FAN ENGINE PULLER FOR ISUZU 3CB1-CZP01&3CH1
20	216329	1	ALTERNATOR FOR ISUZU 3CH1/SDZP1-500 ENGINE
21	222209	2	MOTOR MOUNT LOW PROFILE NEOPRENE 65 220LBS CZP01



Kubota Engine Option

221912

CONTROLS



REF	PART NO	QTY	DESCRIPTION
1	211992	2	ENGINE DIESEL KUBOTA 24.8 HP @ 3000 RPM D1105-E4B T4 FINAL
2	222239	2	KUBOTA ENGINE CONTROL BOX



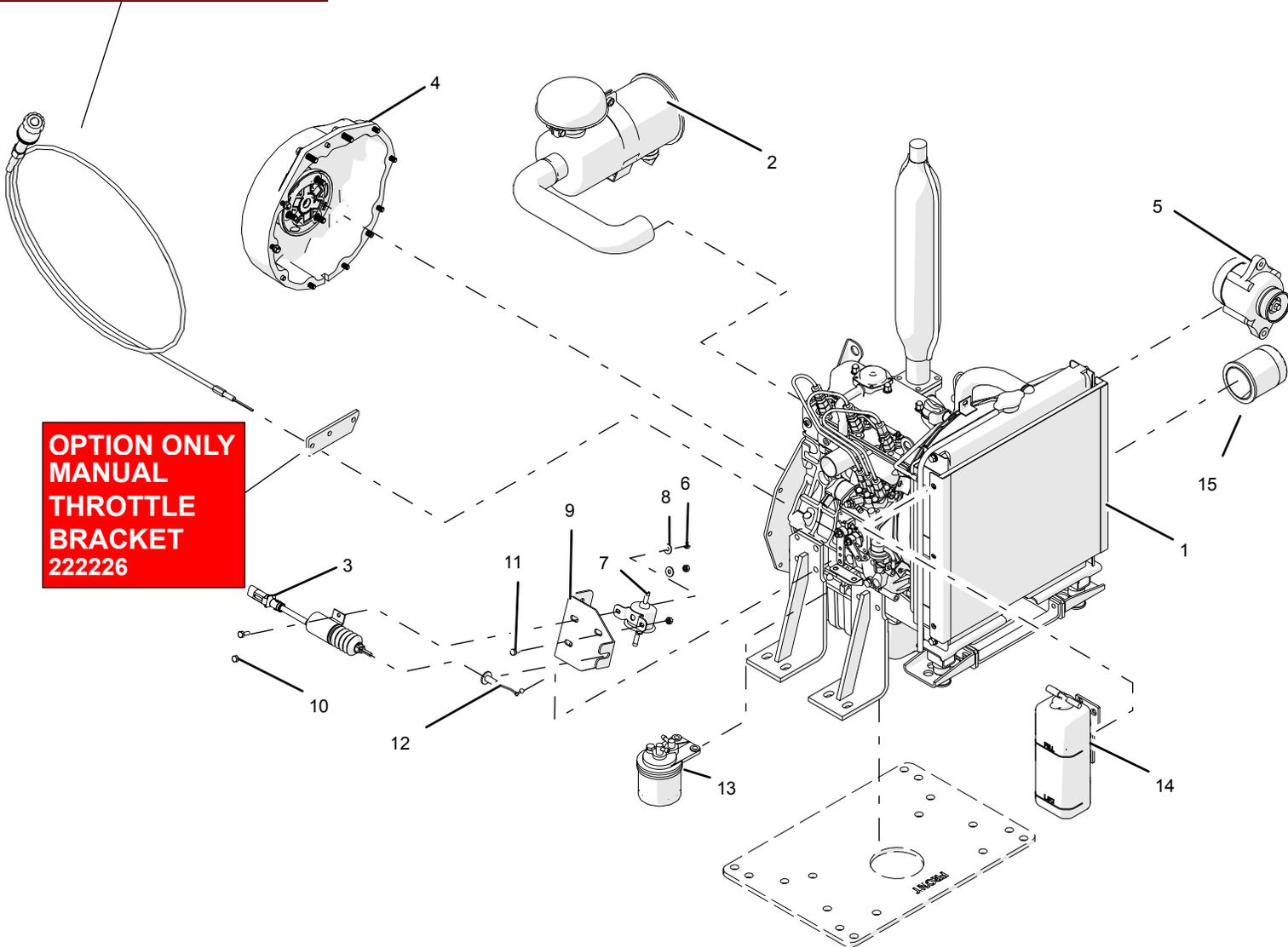
Kubota Diesel Engine 24.8 HP @ 3000 RPM D 110

211992

**OPTION ONLY
HAND THROTTLE CABLE
222225**

**OPTION ONLY
MANUAL
THROTTLE
BRACKET
222226**

CONTROLS



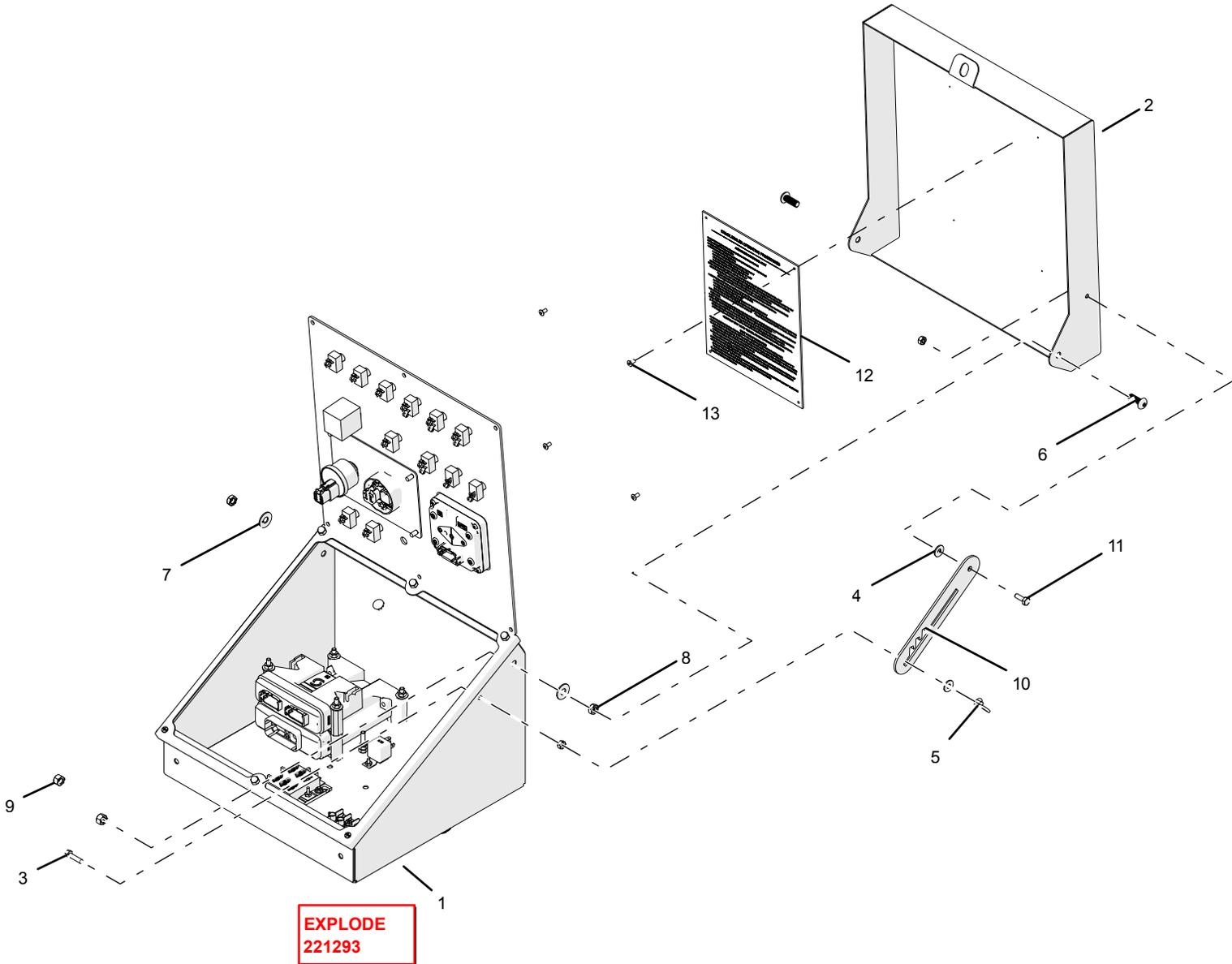
REF	PART NO	QTY	DESCRIPTION
1	211992	1	ENGINE DIESEL KUBOTA 24.8 HP @ 3000 RPM D1105-E4B T4 FINAL
2	218826	1	AIR FILTER KUBOTA 24.8HP ENG D1105-E4B T4
2a	→218826	1	AIR FILTER ELEMENT
3	221380	1	THROTTLE SOLENOID WIRED W/ CONNECTOR CS250/400C
4	221493	1	PUMP DRIVE SAE A 9 TOOTH KRACKER ENGINE TO 3 STACK HYD PUMP
5	221880	1	ALTERNATOR KABOTA ENGINE CRACK SEALER
6	FAS-28500	3	NUT HEX GR5 ZINC .250-20
7	222238	1	KUBOTA FUEL PUMP
8	FAS-28632	2	WASHER USS FLAT SS .250 IN
9	221917	1	MOUNT THROTTLE SOLENOID KUBOTA CS250/400C
10	FAS-28701	2	CAP SCR. HEX S/S .250-20 X .750
11	FAS-28700-SS	1	CAP SCR. HEX GR5 ZINC .250-20 X .50
12	221536	1	THROTTLE CABLE CS 2021+
13	218825	1	FUEL FILTER KUBOTA 24.8HP ENG D1105-E4B T4
14	218277	1	OVERFLOW BOTTLE KUBOTA 24.8 D1105-E4B-KEA-1
15	218824	1	OIL FILTER KUBOTA 24.8HP ENG D1105-E4B T4



Kubota Engine Control Box

222239

CONTROLS



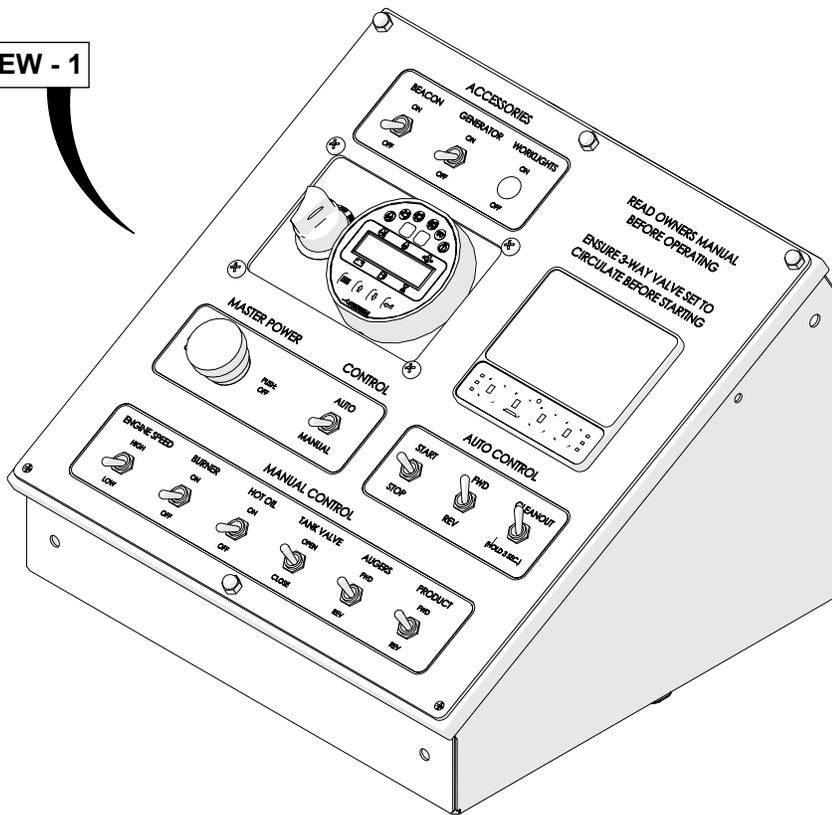
REF	PART NO	QTY	DESCRIPTION
1	221293	2	CONTROL BOX W/ KUBOTA ENGINE CONTROLLER 2021 CS (220940 MOD)
2	220939	1	CS CONTROL BOX LID WELDMENT
3	FAS-28702	1	CAP SCR. HEX GR5 ZINC .250-20 X 1
4	FAS-28632	2	WASHER USS FLAT GR5 ZINC .250 IN
5	FAS-28490	1	WING NUT.250-20
6	202723	2	MACHINE SECURITY SCREW .375-16 X 1"
7	FAS-28634	2	WASHER USS FLAT GR5 ZINC .375 IN
8	FAS-28514	2	NUT JAM HEX GR5 ZINC .375-16
9	FAS-28502	4	NUT HEX GR5 .375-16
10	217623	1	ADJUSTABLE LID STOP
11	FAS-28701	1	CAP SCR. HEX GR5 ZINC .250-20 X .750
12	221104	1	DECAL CS OPERATING PROCEDURES MUNICIPAL
13	FAS-29893	4	RIVET POP .125 IN X .250 IN ALUM BINDING



Kubota Control Box w/ Engine Controller (220940 MOD)

221293

VIEW - 1



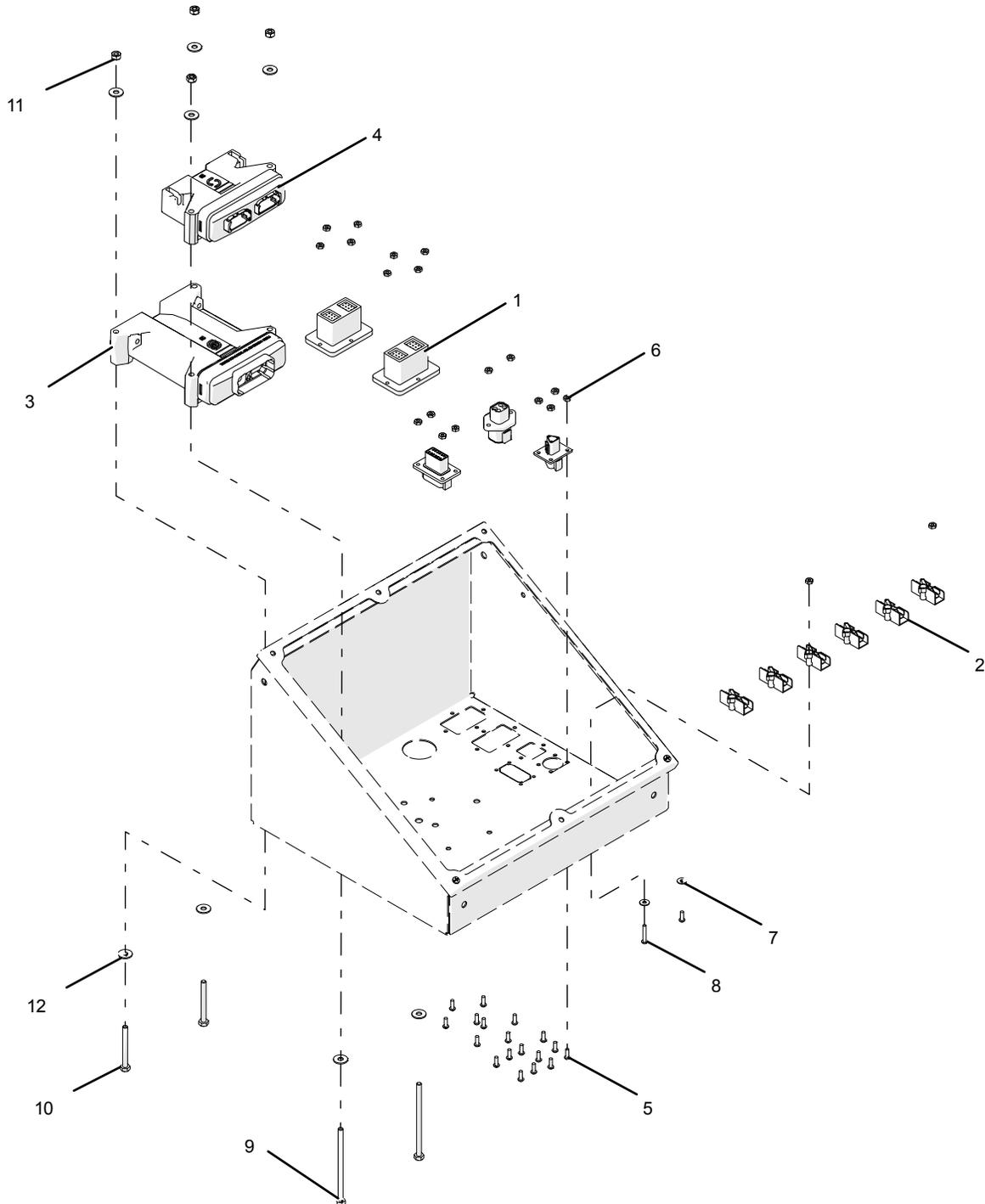
VIEW - 2

CONTROLS



Kubota Control Box w/ Engine Controller (220940 MOD)

VIEW - 1



CONTROLS

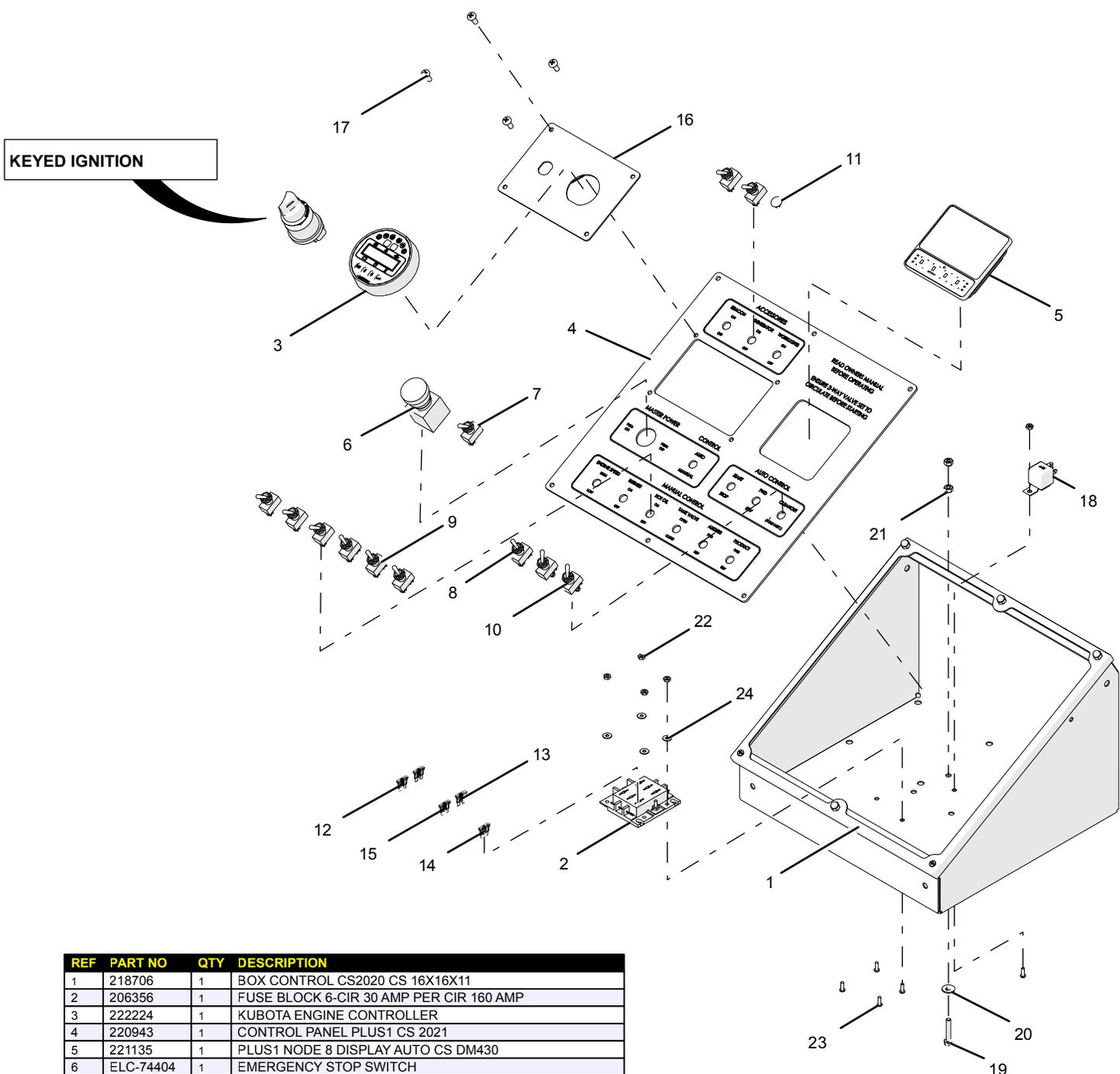
REF	PART NO	QTY	DESCRIPTION
1	221020	1	SCHE PLUS1 AUTO CS (2021)
2	200710	6	TERMINAL BLOCK SECT 6-CONN TAB(MTB1-TB)
3	221134	1	PLUS1 NODE 9 AUTO CS MC050-110
4	221133	1	PLUS1 NODE 16 AUTO CS IX024-010
5	FAS-25813	19	SCREW MACHINE ROUND HEAD #8-32 X .50
6	FAS-28552	20	NUT HEX GR5 ZINC #8-32
7	FAS-28623	2	WASHER FLAT SAE #8 (GOES WITH FAS-25810)
8	FAS-25815	1	SCREW MACHINE ROUND HEAD #8-32 X 1 IN
9	FAS-25479	2	CAP SCR SOC HD PLN .250-20 X 4.50
10	FAS-28707	2	CAP SCR. HEX GR5 ZINC .250-20 X 2.50
11	FAS-28500	4	NUT HEX GR5 .250-20
12	FAS-28632	8	WASHER USS FLAT GR5 ZINC .250 IN



Kubota Control Box w/ Engine Controller (220940 MOD)

VIEW - 2

CONTROLS

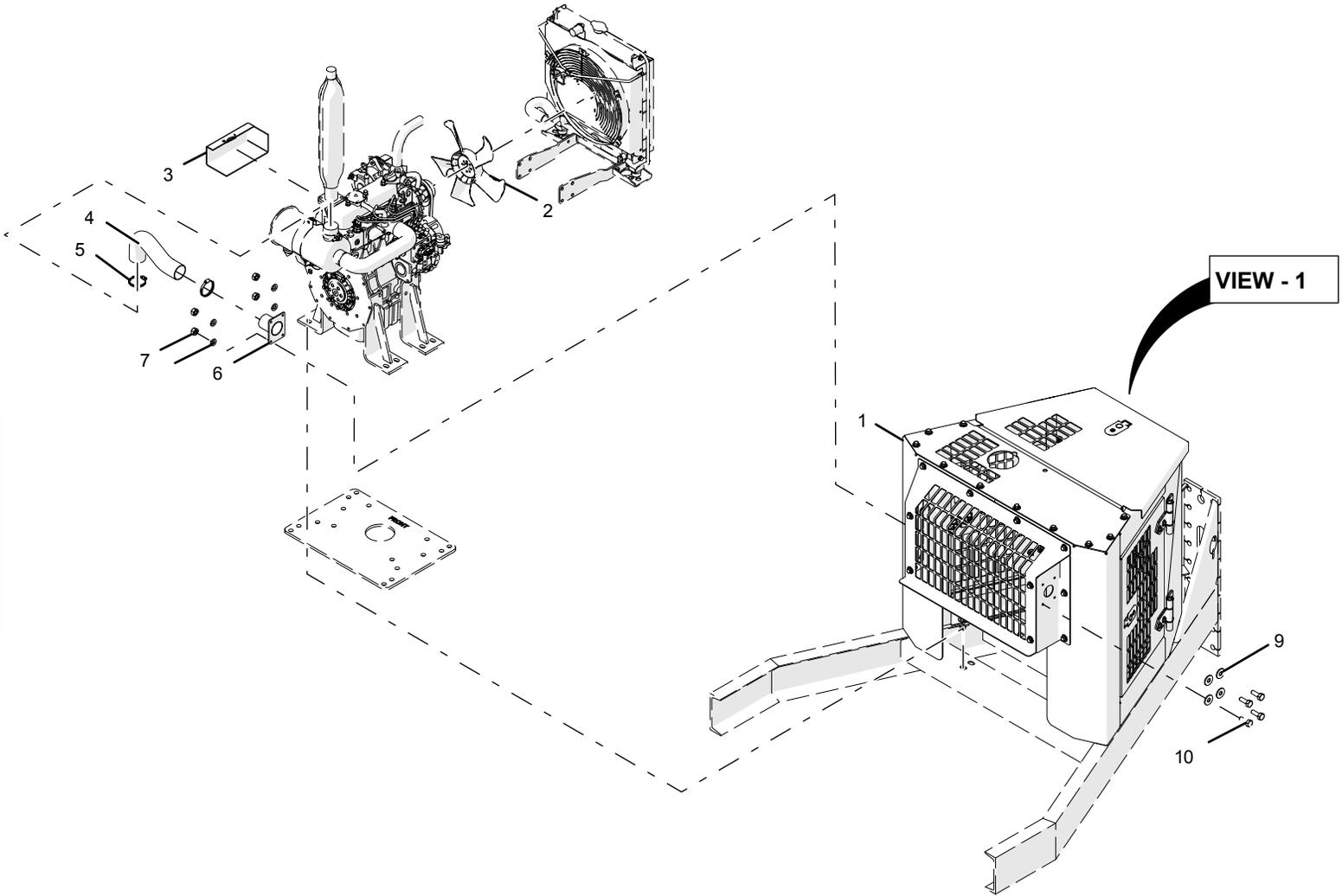


REF	PART NO	QTY	DESCRIPTION
1	218706	1	BOX CONTROL CS2020 CS 16X16X11
2	206356	1	FUSE BLOCK 6-CIR 30 AMP PER CIR 160 AMP
3	222224	1	KUBOTA ENGINE CONTROLLER
4	220943	1	CONTROL PANEL PLUS1 CS 2021
5	221135	1	PLUS1 NODE 8 DISPLAY AUTO CS DM430
6	ELC-74404	1	EMERGENCY STOP SWITCH
7	ELC-24275	7	SWITCH ON/OFF ONE POLE TOGGLE SEALED
8	ELC-24274A	2	SWITCH SEALED ONE POLE MOM ON/OFF/ MOM ON
9	ELC-24272A	2	SWITCH TOGGLE SEALED ON-OFF-ON SPDT
10	202719	1	SWITCH MOM ON/OFF SPST TOGGLE SEALED
11	FIT-24219	1	PLUG BUTTON CHROME .50 IN
12	206357	1	FUSE BLADE TYPE ATO 20 AMP
13	215535	1	FUSE BLADE TYPE ATO 25 AMP
14	ELC-80426	1	FUSE BLADE TYPE ATO 5 AMP BURNERS
15	ELC-80429	2	FUSE BLADE TYPE ATO 10 AMP
16	221291	1	KUBOTA ENGINE CONTROLLER MOUNT PLATE FOR 220943
17	FAS-74421	4	SCREW PAN HD PHLTYP F S/TD .250-20X.625
18	ELC-24270	1	RELAY 70 AMP POWER MODIFIED W/MOV**
19	FAS-28704	1	CAP SCR. HEX GR5 ZINC .250-20 X 1.50
20	FAS-28632	1	WASHER USS FLAT GR5 ZINC .250 IN
21	FAS-28500	2	NUT HEX GR5 .250-20
22	FAS-28552	5	NUT HEX GR5 ZINC #8-32
23	FAS-25813	5	SCREW MACHINE ROUND HEAD #8-32 X .50
24	FAS-28623	4	WASHER FLAT SAE #8 (GOES WITH FAS-25810)



Kubota Engine Enclosure Option

223028

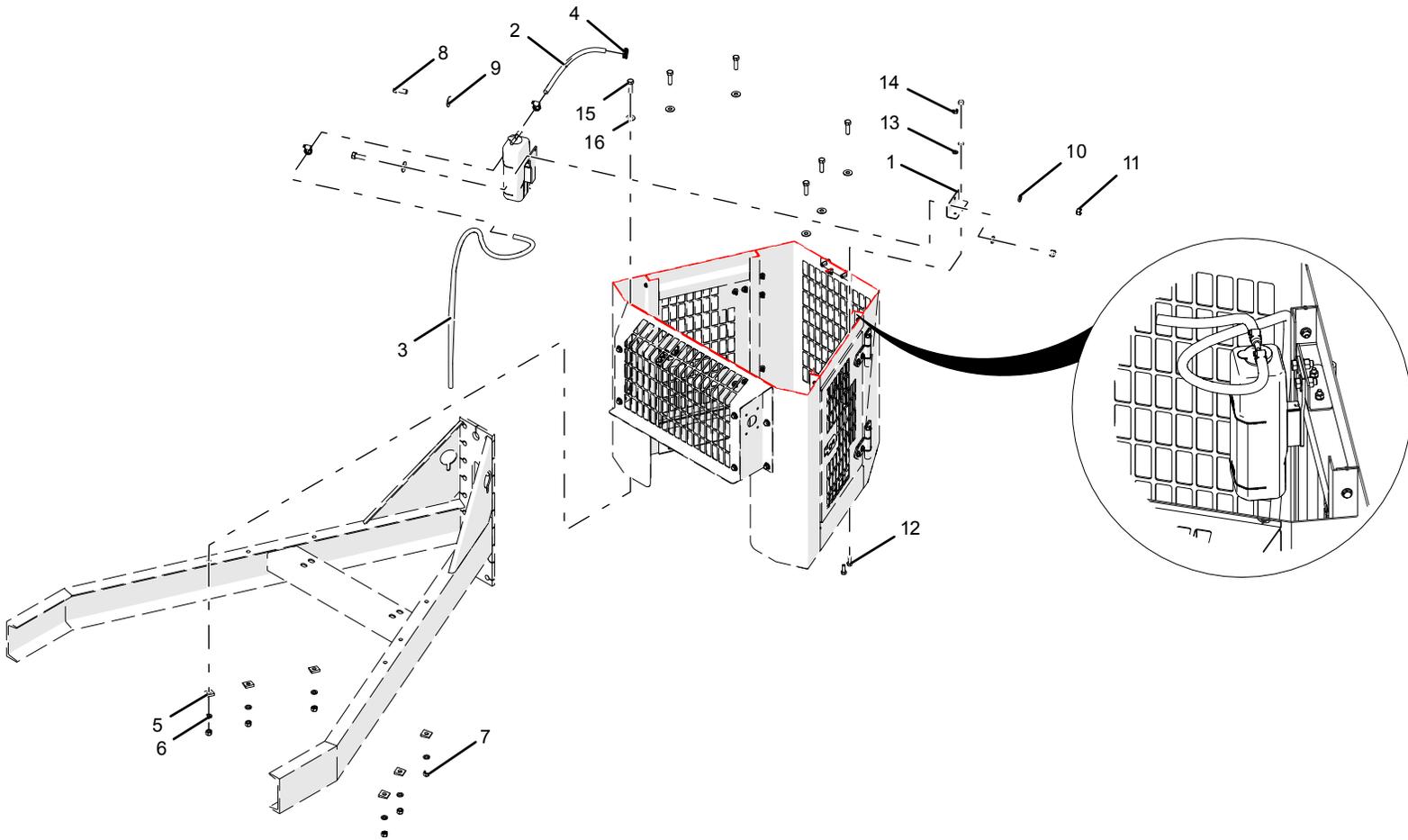


REF	PART NO	QTY	DESCRIPTION
1	223012	1	ENGINE ENCLOSURE KUBOTA
2	223027	1	ENGINE FAN 5 BLADE D1105 KUBOTA ENCLOSURE ECS
3	221976	1	HEAT SHIELD EXHAUST MANIFOLD ENCLOSED KUBOTA ECS
4	223016	1	KUBOTA AIR DUCT C/L
5	FIT-26084	2	CLAMP #28 HOSE CLAMP (GEAR)
6	223019	1	FLANGE WDMT AIR INTAKE DUCT 2" KUBOTA ENCLOSURE ECS
7	FAS-28500	4	NUT HEX GR5 ZINC .250-20
8	FAS-28645	4	WASHER SPLIT LOCK GR5 ZINC .250 IN
9	FAS-28632	4	WASHER USS FLAT GR5 ZINC .250 IN
10	FAS-28701	4	CAP SCR. HEX GR5 ZINC .250-20 X .750



Kubota Engine Enclosure Option

VIEW - 1



CONTROLS

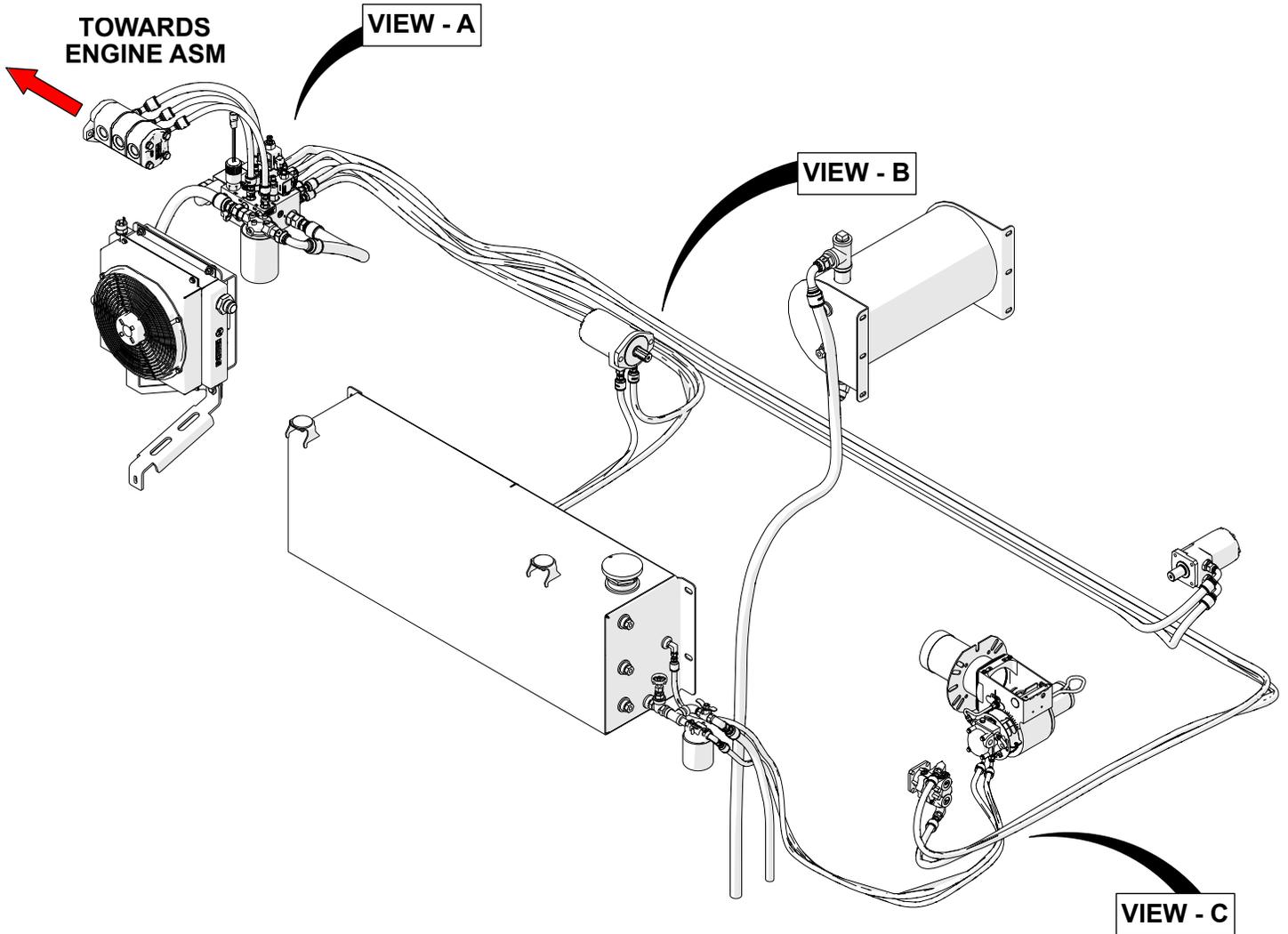
REF	PART NO	QTY	DESCRIPTION
1	301101	1	KUBOTA OFLOW BOTTLE MOUNT BRKT
2	301108	1	OVERFLOW BOTTLE HOSE FROM RADIATOR
3	301109	1	OVERFLOW BOTTLE HOSE DRAIN
4	FAS-26078	3	HOSE CLAMP #6
5	221974	6	LEVELING WASHER FOR INTERIM BOLT ON KUBOTA ENCLOSURE
6	FAS-28649	6	WASHER SPLIT LOCK GR5 ZINC .50 IN
7	FAS-28504	6	NUT HEX GR5 ZINC .50-13
8	FAS-28731	2	CAP SCR. HEX GR5 ZINC .375-16 X 1
9	FAS-28634	2	WASHER USS FLAT GR5 ZINC .375 IN
10	FAS-28647	2	WASHER SPLIT LOCK GR5 ZINC .375 IN
11	FAS-28502	2	NUT HEX GR5 ZINC .375-16
12	FAS-28701	2	CAP SCR. HEX GR5 ZINC .250-20 X .750
13	FAS-28645	2	WASHER SPLIT LOCK GR5 ZINC .250 IN
14	FAS-28500	2	NUT HEX GR5 ZINC .250-20
15	FAS-28763	6	CAP SCR. HEX GR5 ZINC .50-13 X 1.750
16	FAS-28636	6	WASHER USS FLAT GR5 ZINC .500 IN

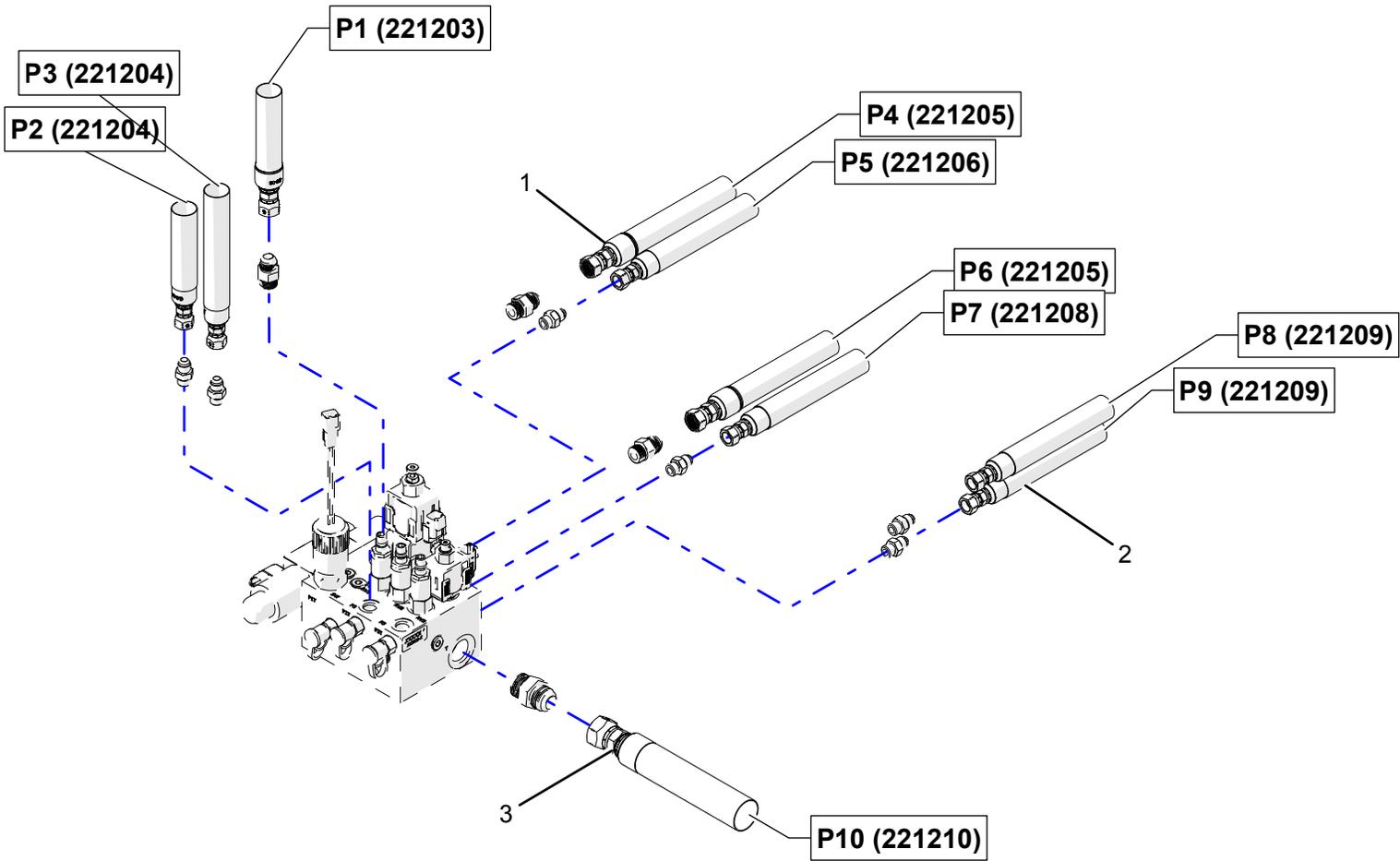


Hose Kit 250/400

221153

H
O
S
E
A
S
S
E
M
B
L
Y



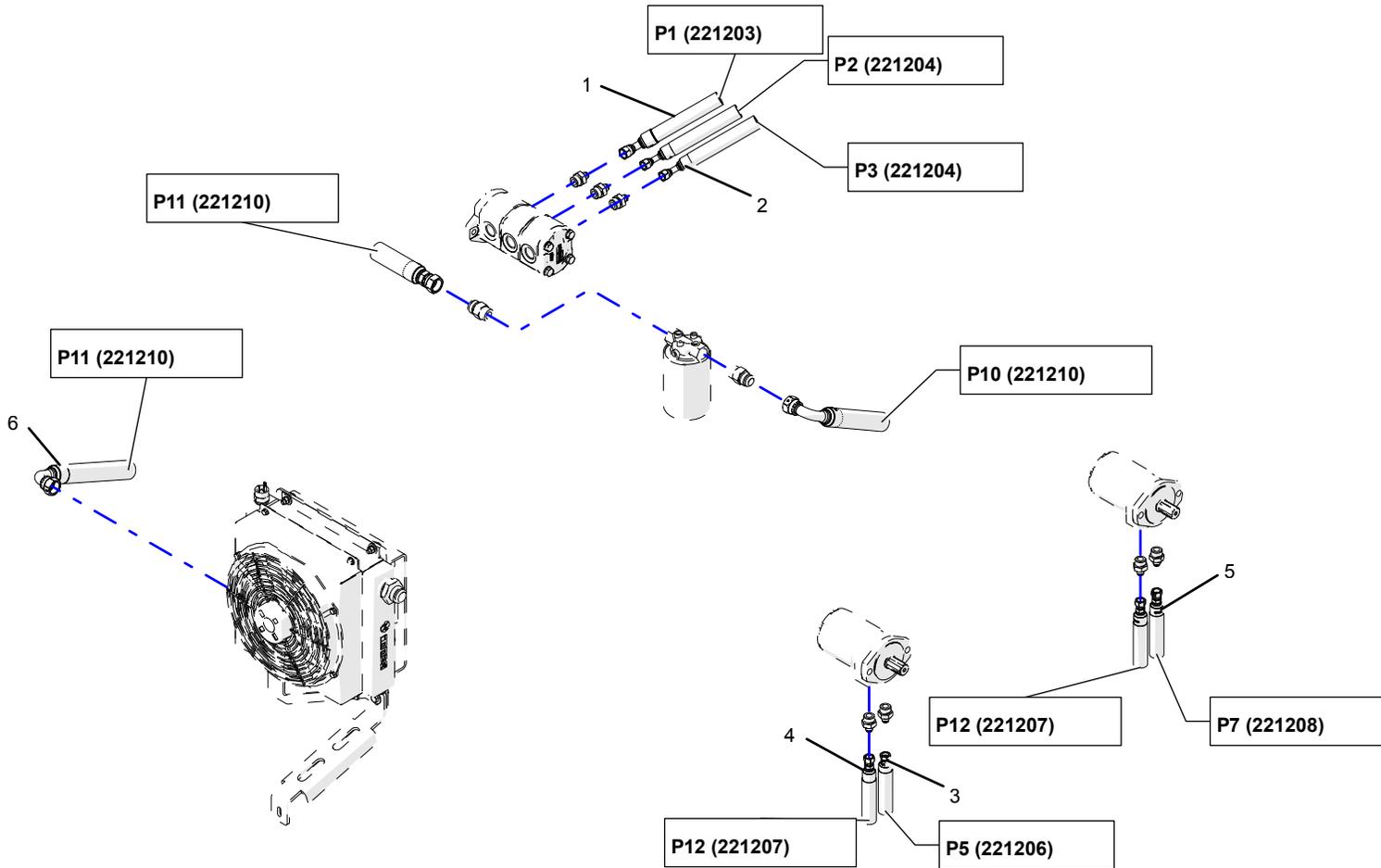


NOTE : ' P ' INDICATES PORT NUMBER

REF	PART NO	QTY	DESCRIPTION
1	221205	2	PROD. PRES. A1/B1 HOSE KIT CS250M
2	221209	2	H.O. PRES. A3/B3 HOSE KIT CS250M
3	221210	1	FILTER/COOLER/TANK RETURN HOSE KIT CS250/400M



VIEW - B



HOSE ASSEMBLY

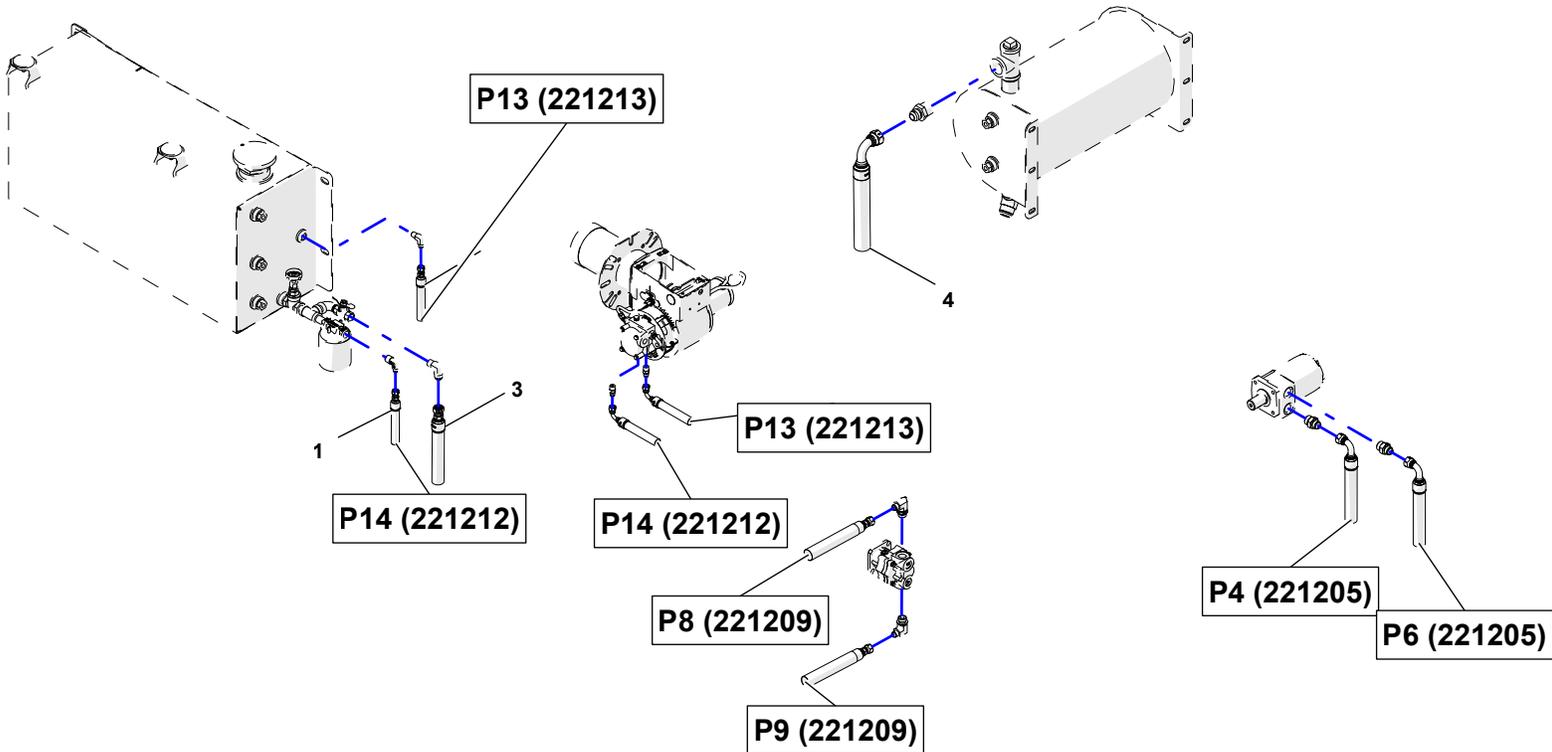
NOTE : ' P ' INDICATES PORT NUMBER

REF	PART NO	QTY	DESCRIPTION
1	221203	1	PROD. PRES. P1 HOSE KIT CS250/400M
2	221204	2	AUG/H.O. PRES. P2/P3 HOSE KIT CS250/400M
3	221206	1	AUGER PRES. A2-B HOSE KIT CS250M (SEE NOTES)
4	221207	1	AUGER A-A CROSS HOSE KIT CS250/400M
5	221208	1	AUGER PRES. B2-B HOSE KIT CS250M (SEE NOTES)
6	221210	1	FILTER/COOLER/TANK RETURN HOSE KIT CS250/400M



VIEW - C

HOSE ASSEMBLY



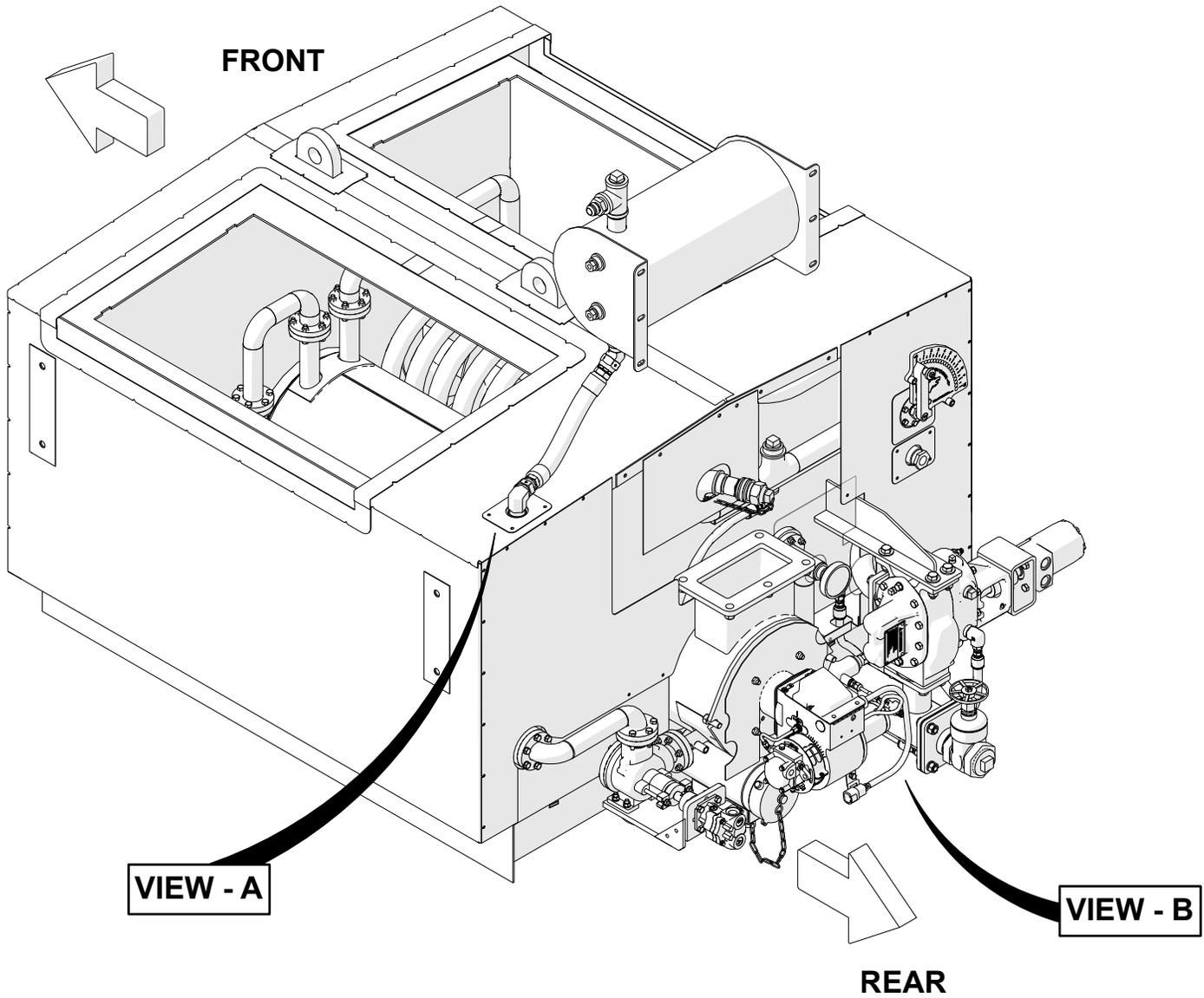
NOTE : ' P ' INDICATES PORT NUMBER

REF	PART NO	QTY	DESCRIPTION
1	221212	1	BURNER SUPPLY HOSE KIT CS250M
2	221213	1	BURNER RETURN HOSE KIT CS250M
3	221214	1	DIESEL DRAIN HOSE KIT CS250/400M
4	221215	1	H.O. EXPANSION HOSE KIT CS250/400M



Hot Oil Hose Kit - 250/400

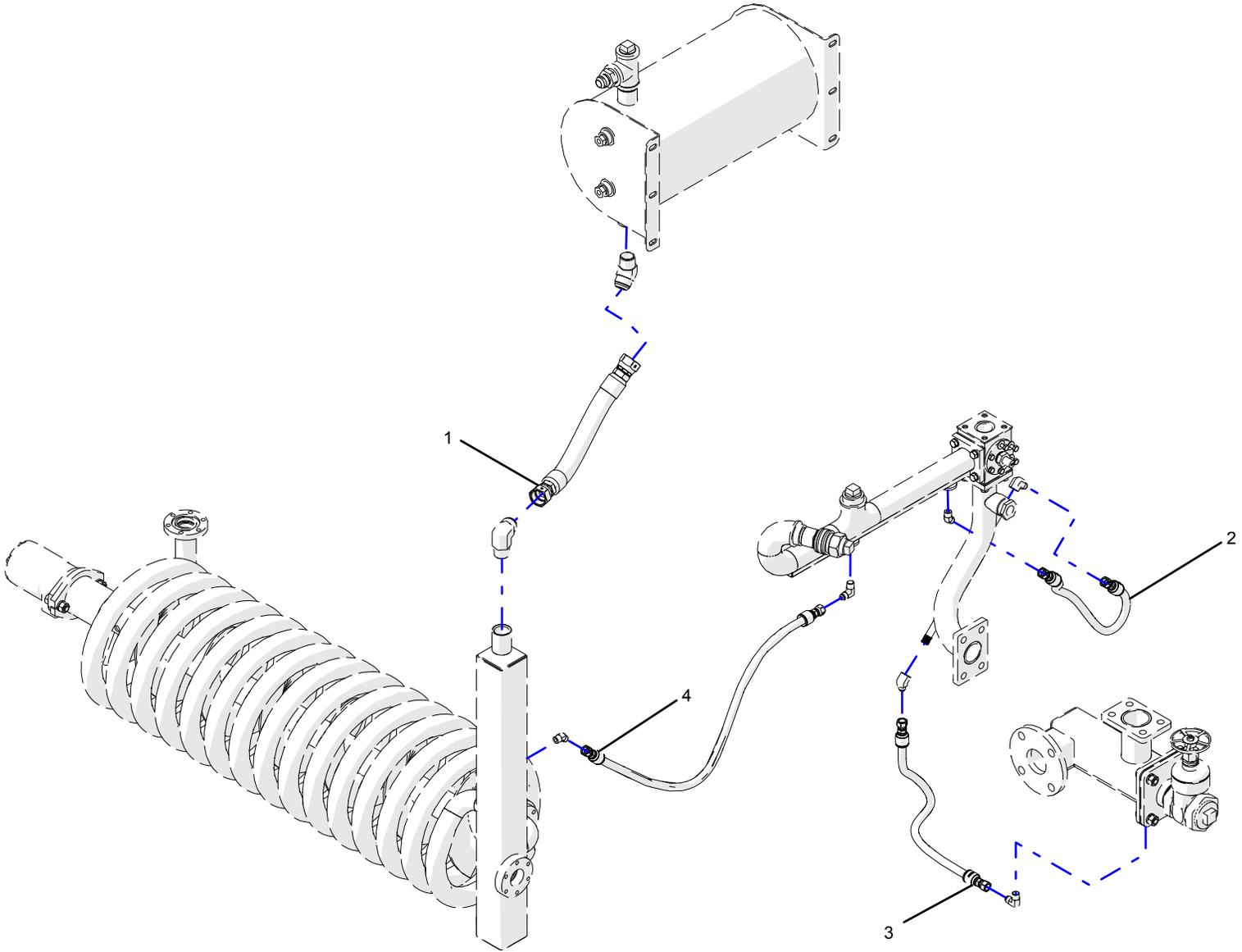
221369





VIEW - A

HOSE ASSEMBLY

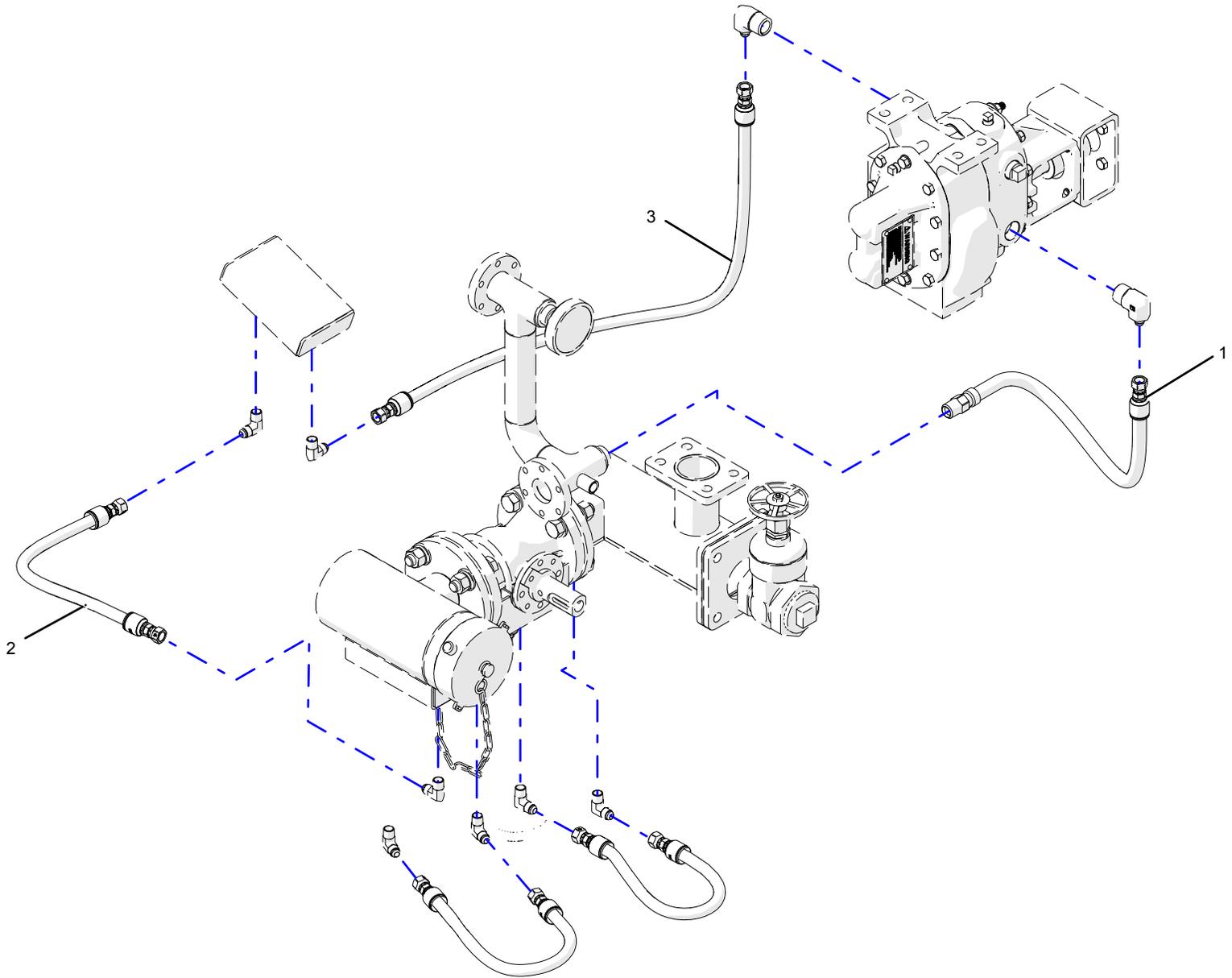


REF	PART NO	QTY	DESCRIPTION
1	221122	1	HOSE FLX ASM S/S 1.5 IN X 15.5 IN LG 16FJX ENDS H.O. TANK
2	209949	1	HOSE FLX ASM S/S .375 X 18 IN CSK W/6FJX EA END
3	MSC-82083	1	HOSE FLX ASM S/S .375 X 20 IN CSK*
4	MSC-82085	1	HOSE FLX ASM S/S .375 X 32 IN CSK W/6FJX EA END



VIEW - B

HOSE ASSEMBLY

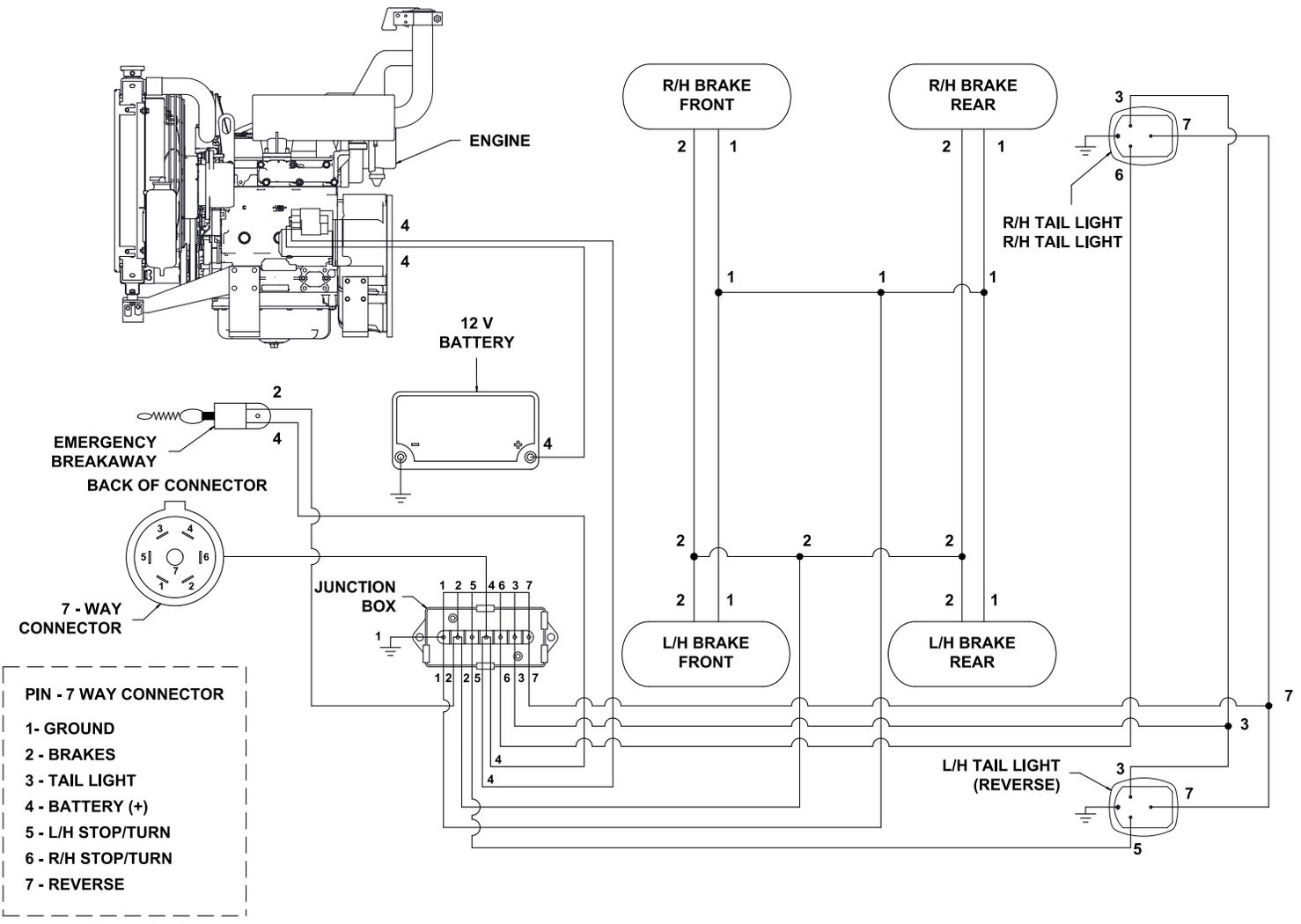


REF	PART NO	QTY	DESCRIPTION
1	221164	1	HOSE FLX ASM S/S .500 X 19 IN 6FJX & 8MP ENDS
2	209934	3	HOSE FLX ASM S/S .375 X 15.50 OAL S/S W/6FJX EA END VERT RBR MIX
3	MSC-82086	1	HOSE FLX ASM S/S .375 X 36 IN CSK W/6FJX EA END



Lights & Brakes Schematic

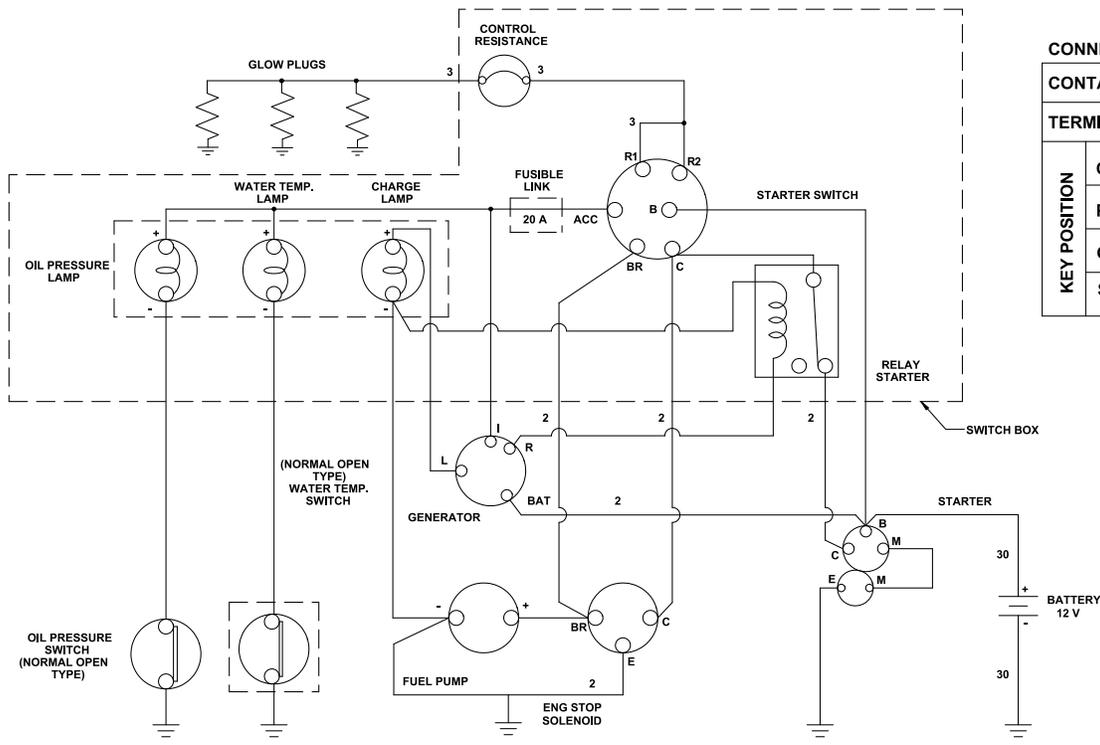
SCHEMATICS





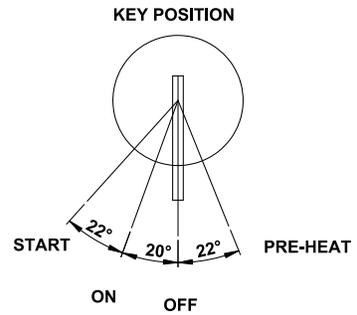
Diesel Engine

SCHEMATICS



CONNECTION TABLE

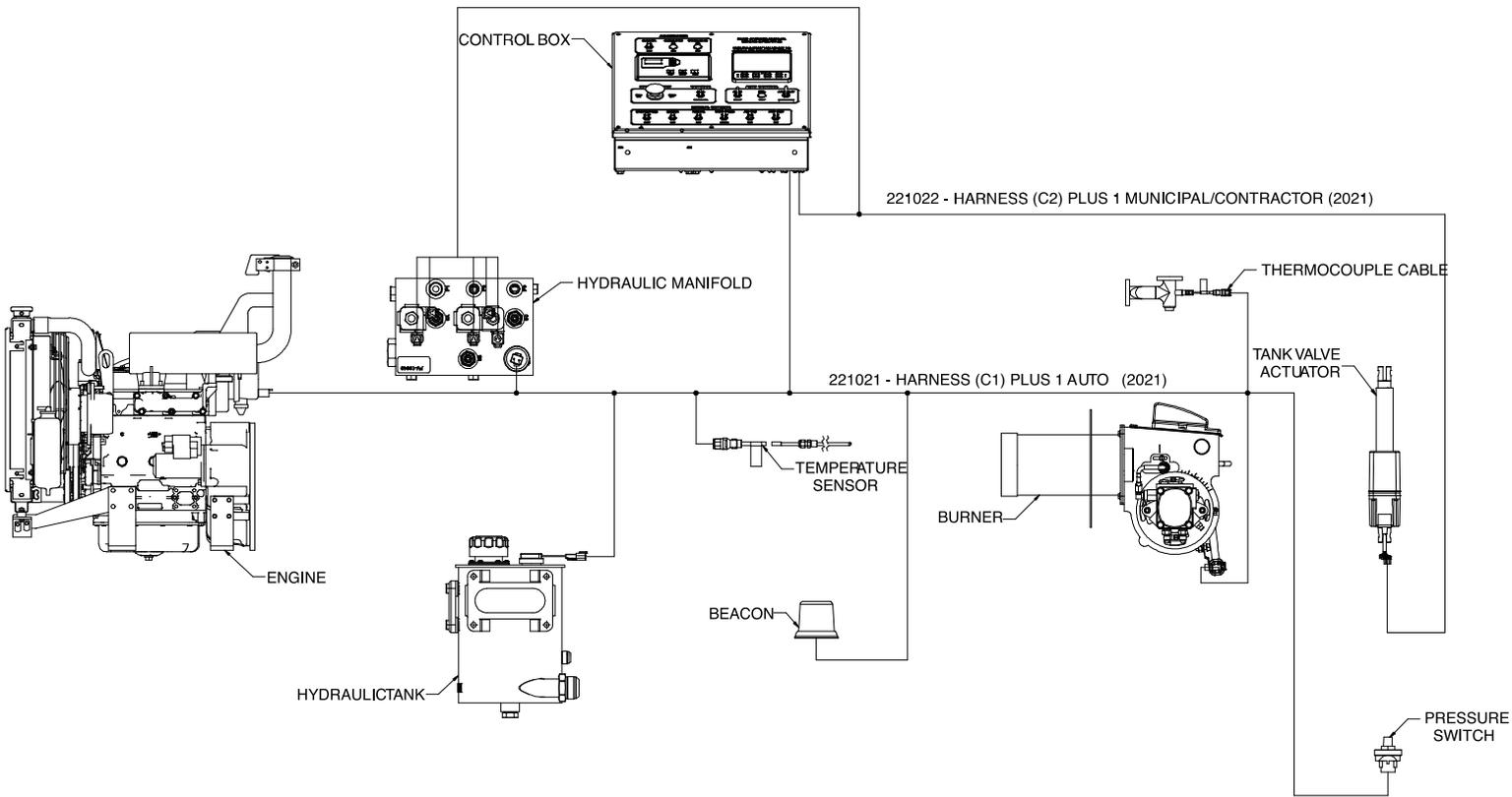
CONTACT CAPACITY			50A	10A	50A	20A	2A
TERMINAL		B	R1	ACC	R2	C	BR
KEY POSITION	OFF	○					
	PRE-HEAT	○	○				
	ON	○		○			○
	START	○		○	○	○	○





Control Box

S
C
H
E
M
A
T
I
C
S

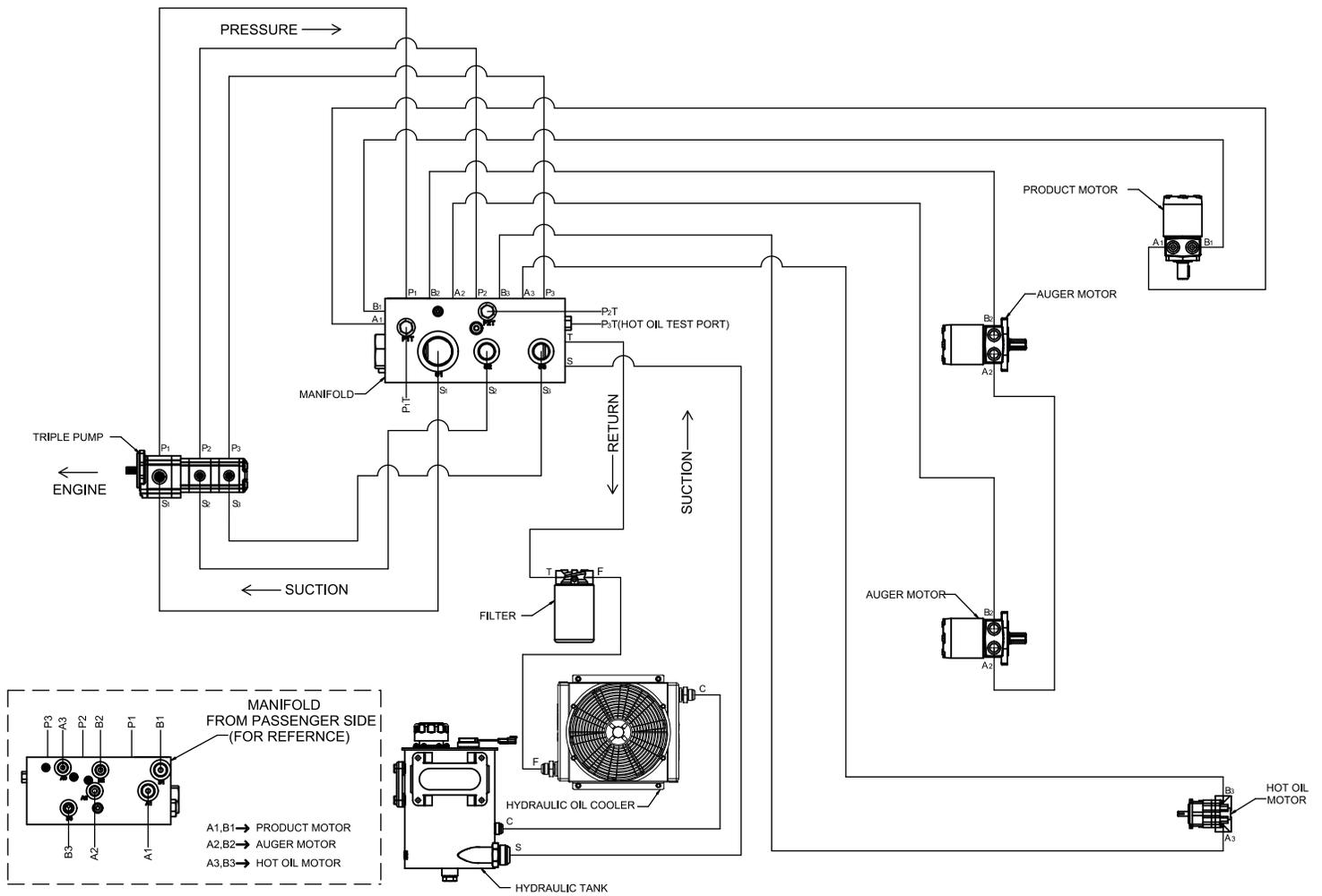




Hydraulic System Flow Diagram

(EC-1075 and Below Series)

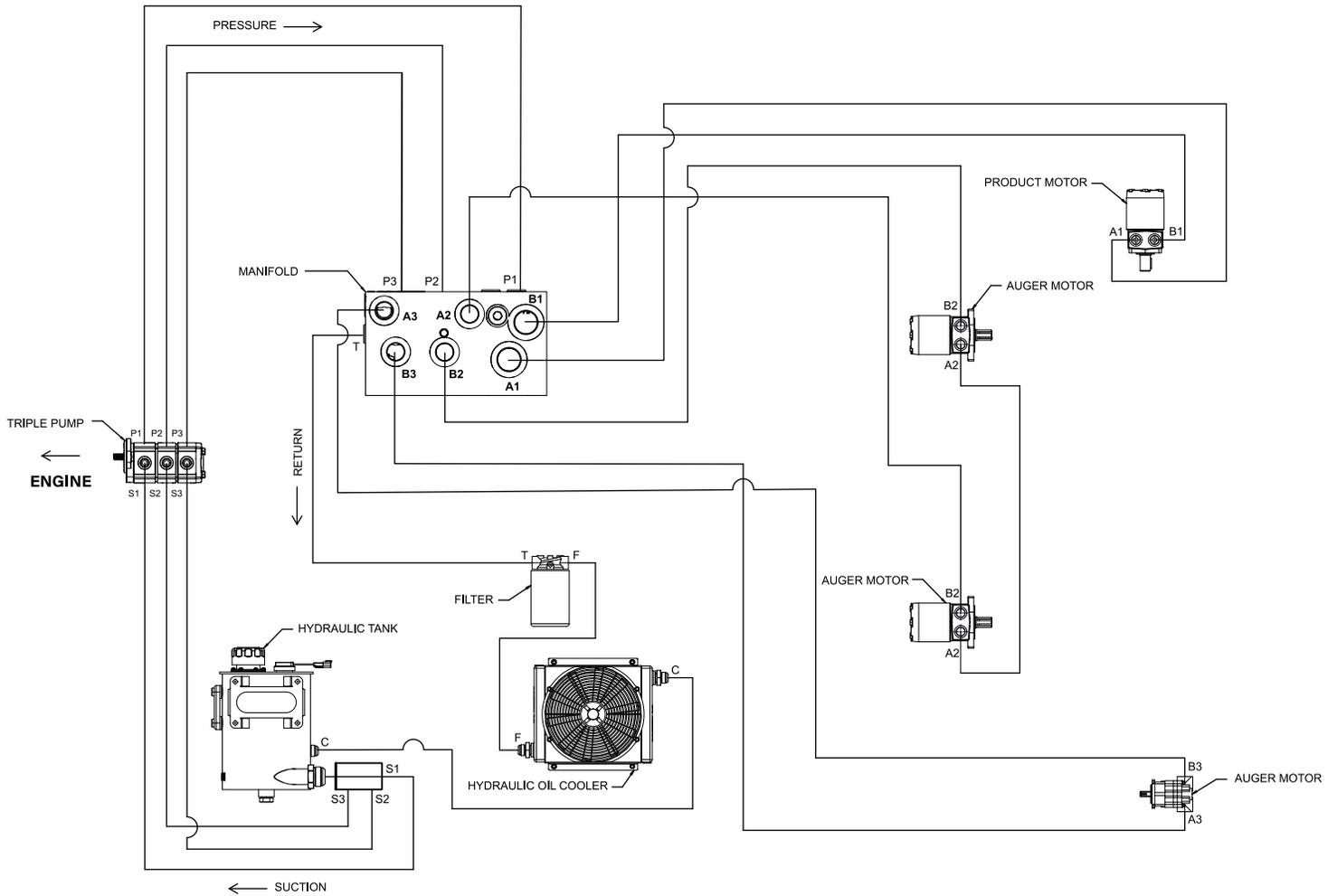
S
C
H
E
M
A
T
I
C
S





Hydraulic System Flow Diagram (EC-1076 and Above Series)

S
C
H
E
M
A
T
I
C
S

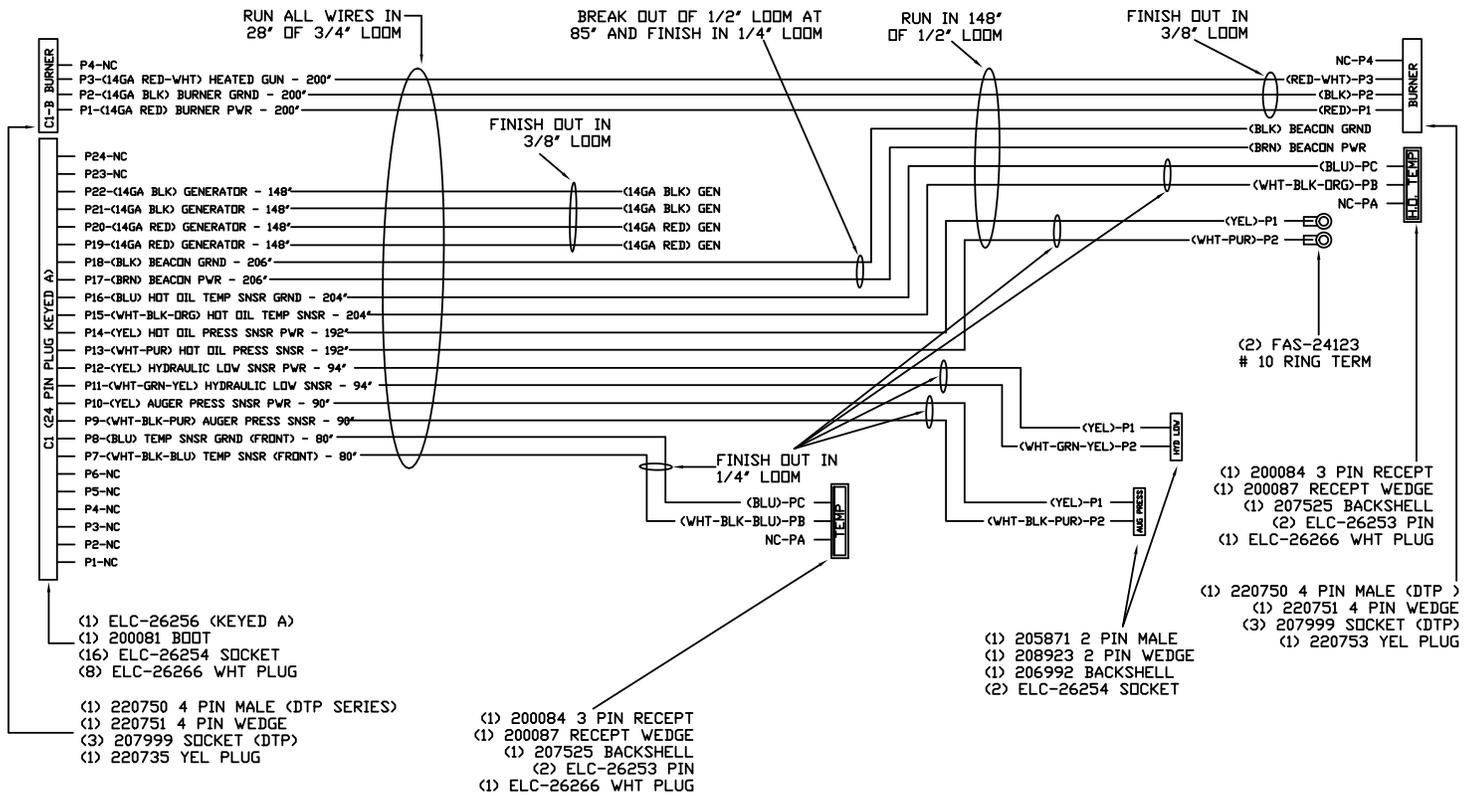




Harness (C1) Plus 1 Auto

221021

SCHEMATICS

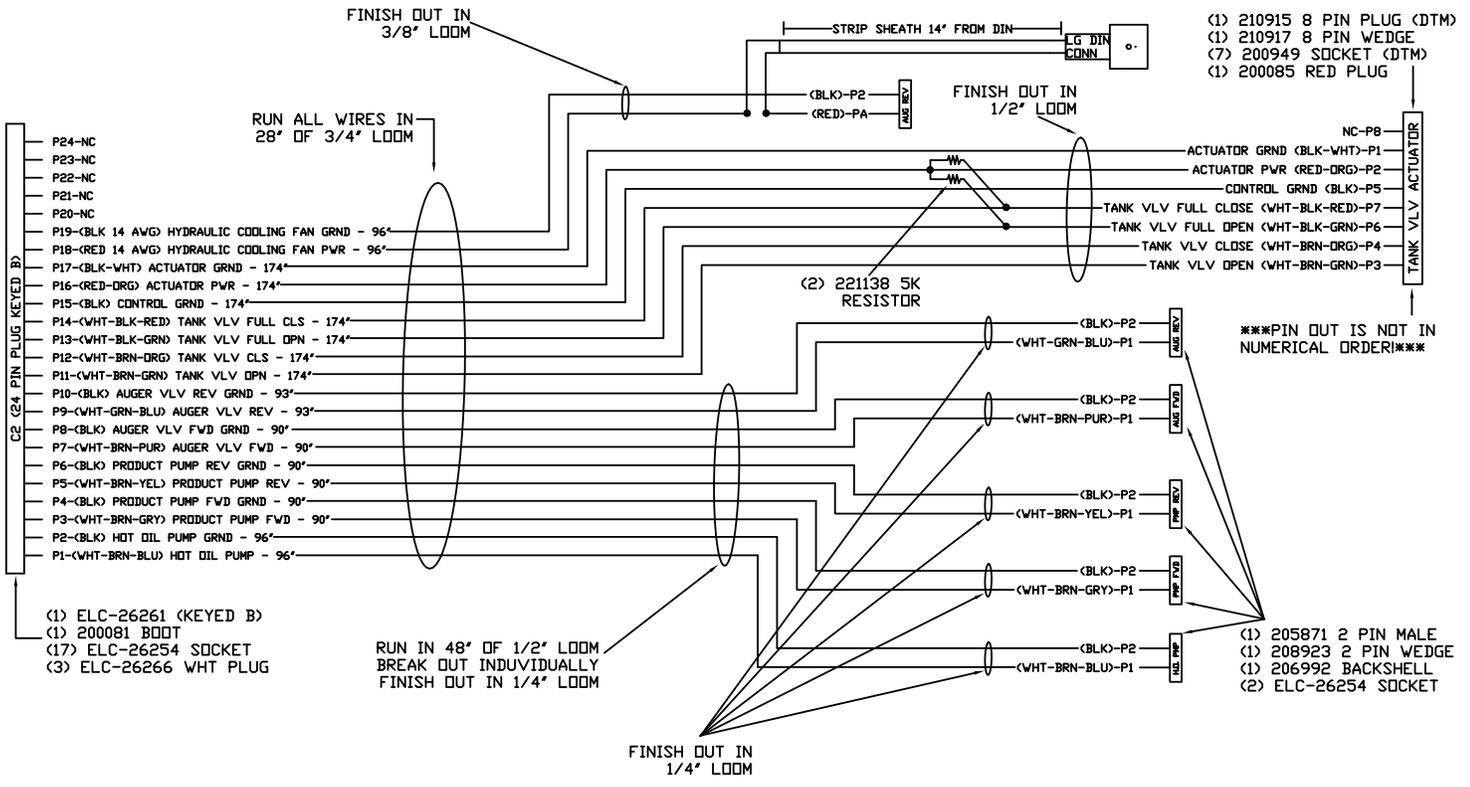




Harness (C2) Plus 1

221022

SCHEMATICS

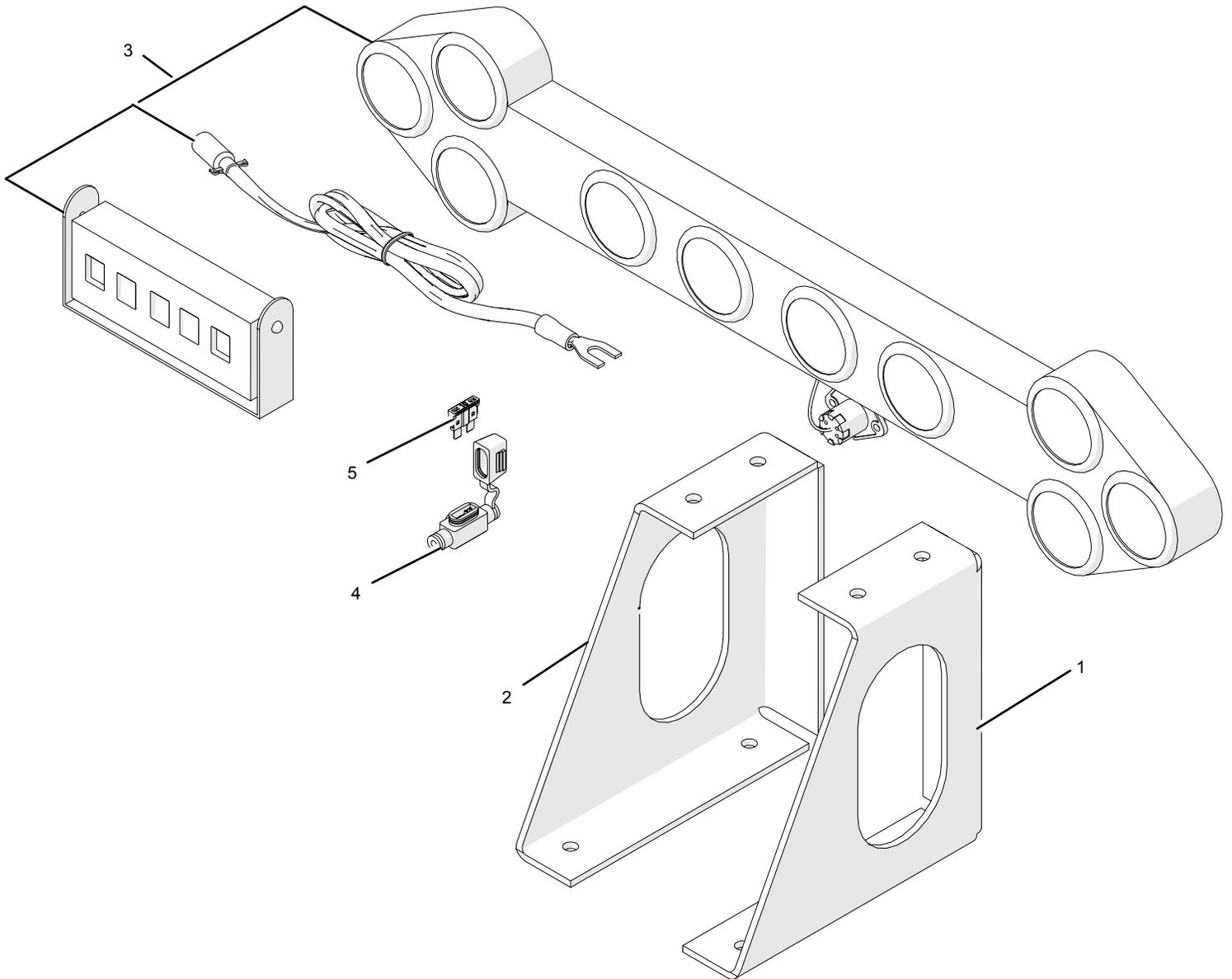




Arrowboard Option 250/400

221284

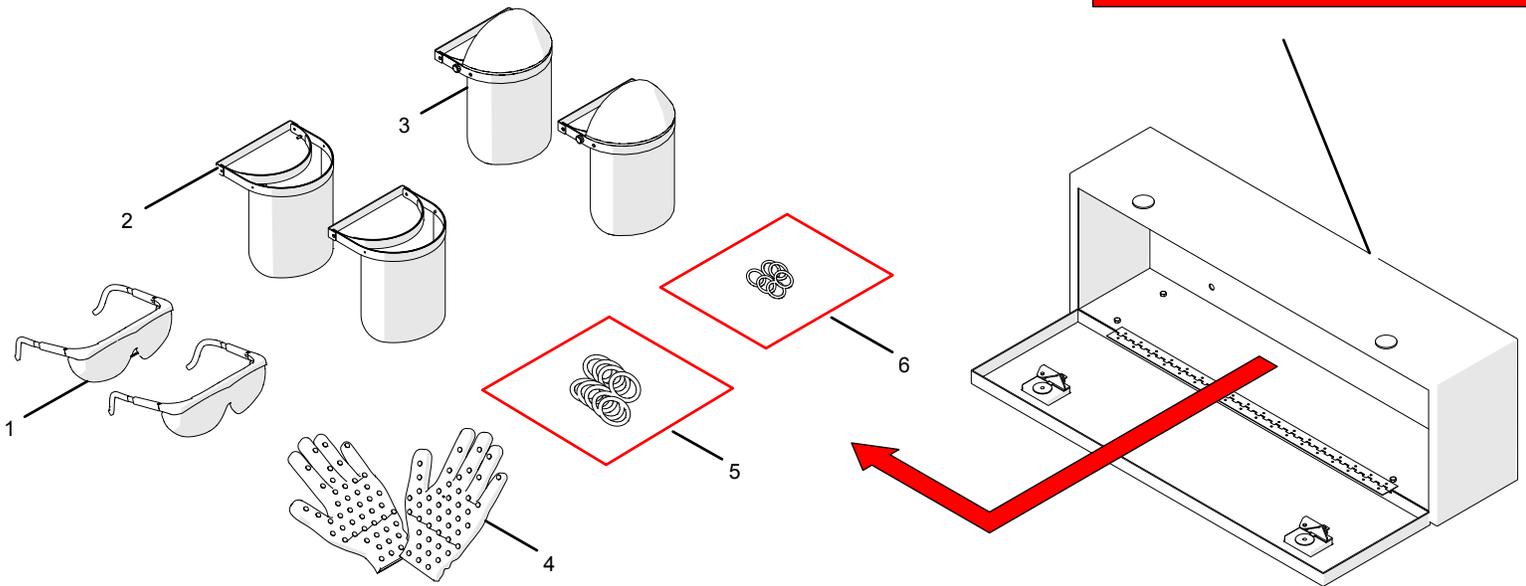
ARROWBOARD



REF	PART NO	QTY	DESCRIPTION
1	220545	1	ARROW LIGHT BRACKET RH UPRIGHT
2	220546	1	ARROW LIGHT BRACKET LH UPRIGHT
3	ELC-24191	1	LIGHT BAR ARROW W/CONTROL BOX & WIRE
4	ELC-80428	1	FUSE HOLDER ATO/ATC LCKNG CAP/MNTG TAB 30 AMP/12 OR 32V 12 GA WIRES
5	ELC-80429	1	FUSE 10 AMP PUSH-IN



TOOLBOX ASSEMBLY

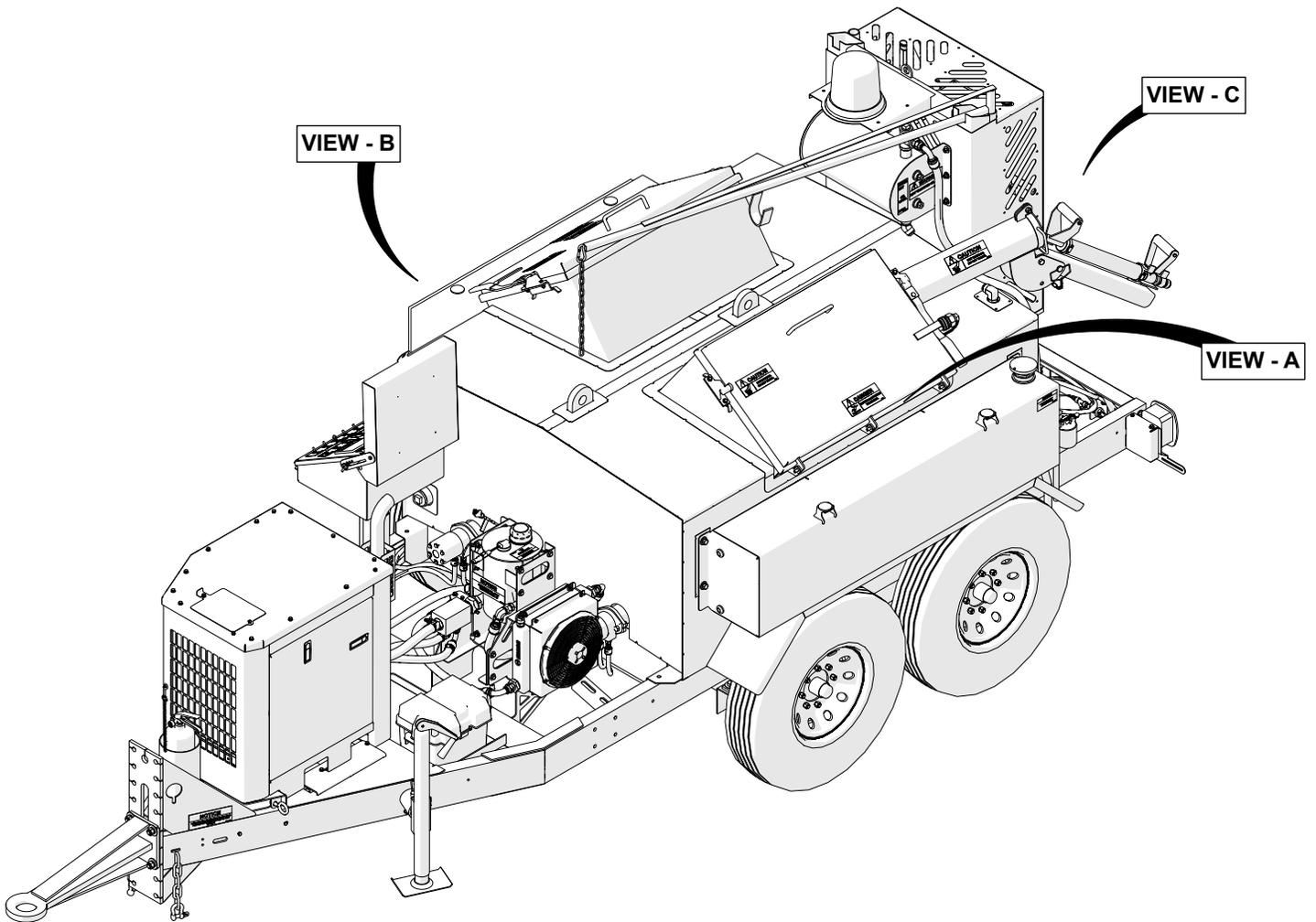


P
P
E

REF	PART NO	QTY	DESCRIPTION
1	214135	2	GLASSES MIRAGE CLEAR LENS
2	SHP-00670	2	FACE SHIELD 24 MESH SCREEN
3	SHP-00671	2	HEAD GEAR FOR FACE SHEILD RATCHET STYLE
4	MSC-100125	2	GLOVE ORANGE INSULATED HOT ASPHALT
5	RNG-80054	1	PACKING 9-RING 1 X 1.750 X .375
6	RNG-80297	1	PACKING 6-RING .750 X 1.250 X .250 (VIKING HOT OIL PUMP)



Decal Set
KIT-80079



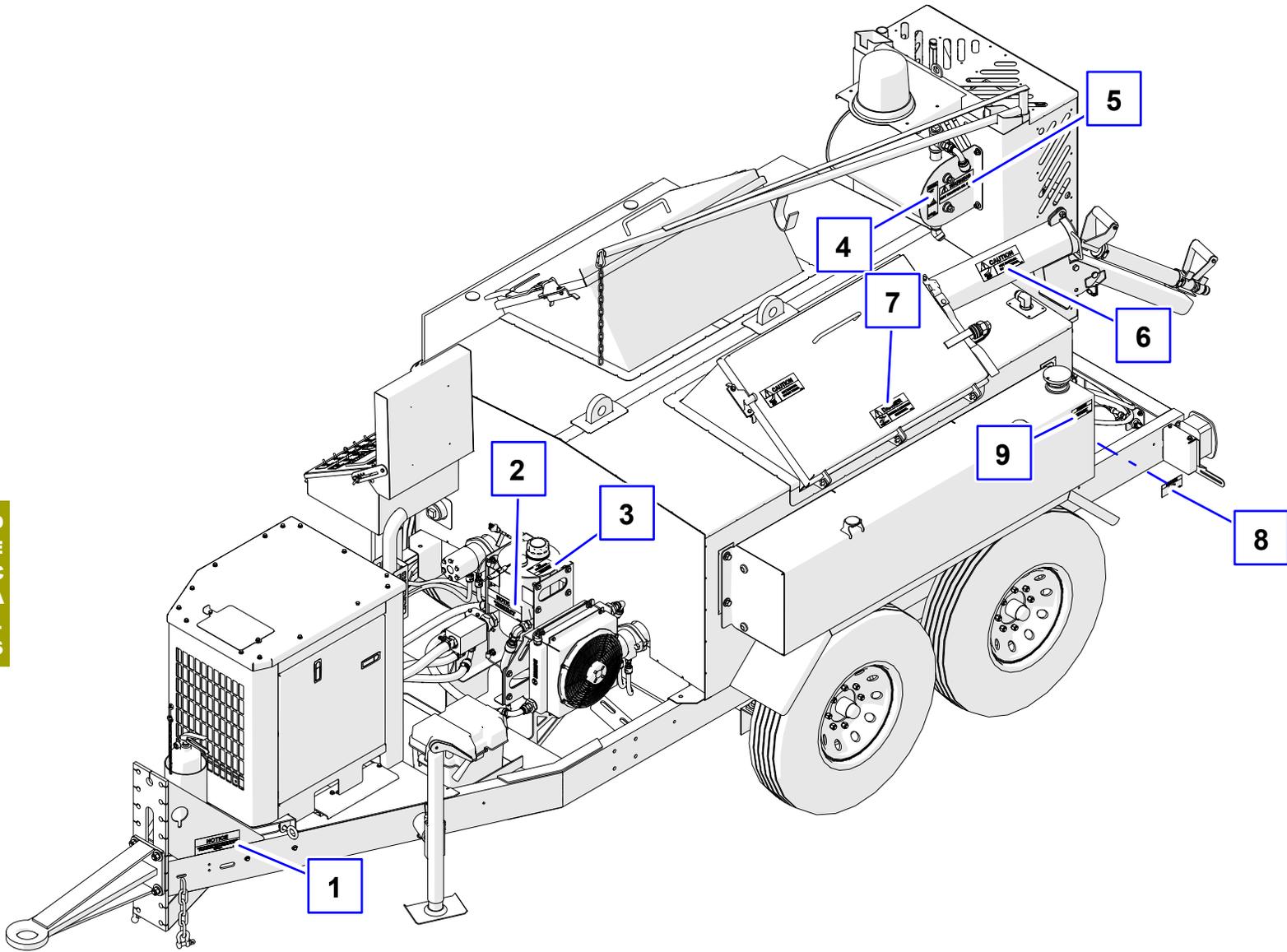
DECALS



Decals

VIEW A

DECALS

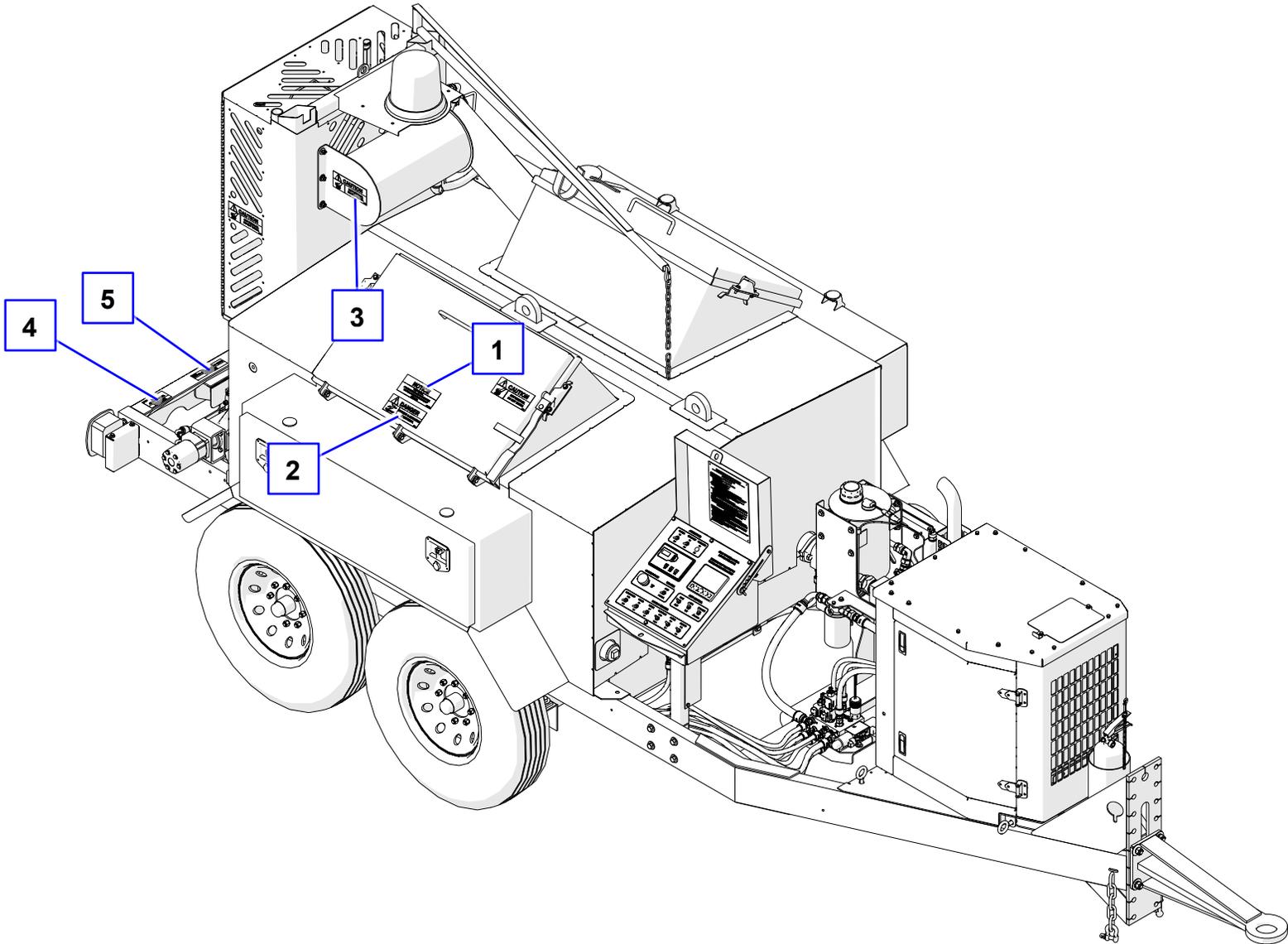


REF	PART NO	QTY	DESCRIPTION
1	DCL-80080	1	HITCH POSITION LEVEL
2	DCL-80283	1	HYDRAULIC OIL ONLY (HYD. 46)
3	DCL-81189	1	HYDRAULIC OIL
4	DCL-80286	1	OIL LEVEL
5	DCL-80282	1	HEAT TRANSFER OIL ONLY
6	217788	2	HOT SURFACE DECAL
7	217790	1	DANGER AUGER AMPUTATION
8	DCL-80288	1	FLUSH FUEL
9	DCL-81188	1	DIESEL



Decals

VIEW B



DECALS

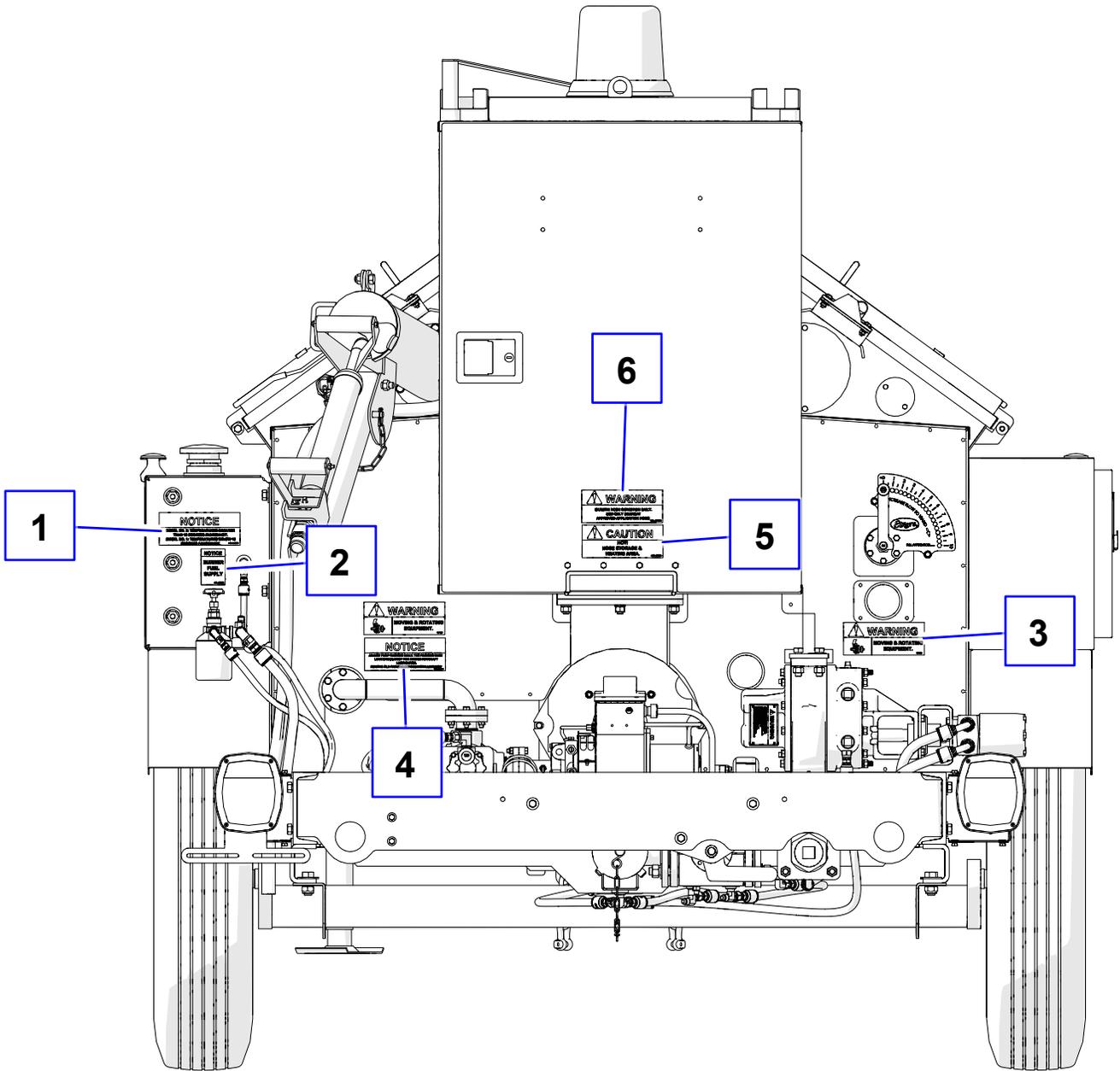
REF	PART NO	QTY	DESCRIPTION
1	DCL-80285	1	KEEP FULL
2	217790	1	DANGER AUGER AMPUTATION
3	217788	3	HOT SURFACE DECAL
4	DCL-80289	1	TANK OR PUMP DRAIN
5	MSM-80051	1	OPEN/CLOSE PRODUCT VALVE



Decals

VIEW C

DECALS

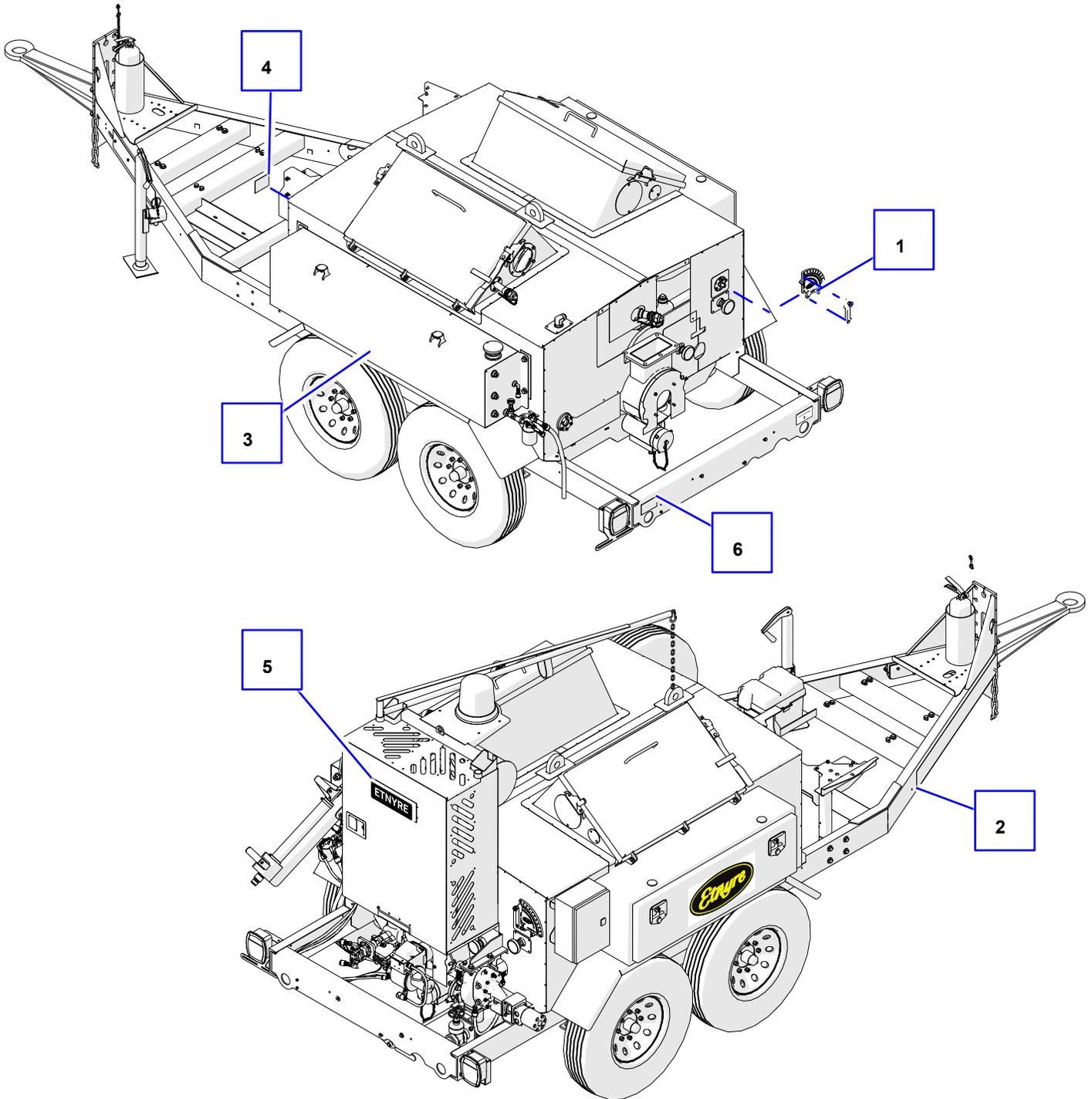


REF	PART NO	QTY	DESCRIPTION
1	DCL-80280	1	DIESEL TANK
2	DCL-80287	1	BURNER FUEL SUPPLY
3	217789	2	ROTATING EQUIPMENT
4	DCL-80284	1	PUMP PACKING
5	MSM-80033	1	HOSE STORAGE & HEATING AREA
6	DCL-80083	1	APPLICATION HOSE



Etnyre CrackSealer Logo Parts

220510



DECALS

REF	PART NO	QTY	DESCRIPTION
1	220501	1	GAUGE ASM RH FLOW 3.WAY CS ETNYRE LOGO
2	220502	2	ETNYRE ROAD TAPE - 45' ROLL - STOCKED PER FOOT
3	220503	2	DECAL - ETNYRE OVAL 10"
4	220504	1	ETNYRE VIN PLATE
5	220505	1	PLATE-NAME STRAIGHT ETNYRE
6	220506	2	DECAL - NOT A TIE DOWN