

AARD 5.5 LP LOAD HAUL DUMPER



SPARE PARTS MANUAL VOLUME 1

SERIAL No: CE-1681-LHD5.5

CUSTOMER: SECM -Lannex



Enquiries:
Tel: +27 11 279-5300
Fax: +27 11 279-5400

ORDERING PROCEDURE

PART NO: **DESCRIPTION:**

AARD MINING EQUIPMENT REF:

MACHINE TYPE:

EXAMPLE

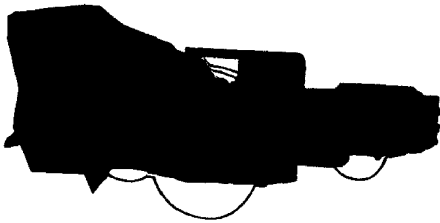
PART NO: UV-851P119374 **DESCRIPTION:** Element, Safety (Inner)

AARD MINING EQUIPMENT REF: UV-81700101K Air Cleaner Assy

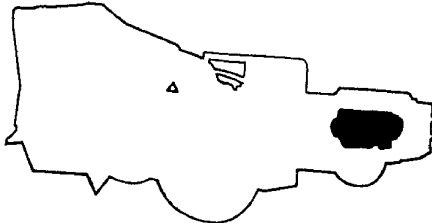
MACHINE TYPE: AARD 5.5 LP Load Haul Dumper
(CE-1681-LHD5.5)

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
MAIN GROUP

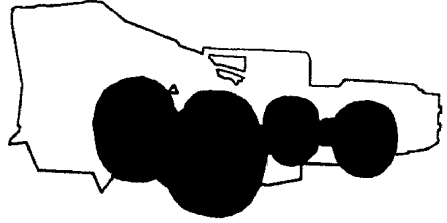
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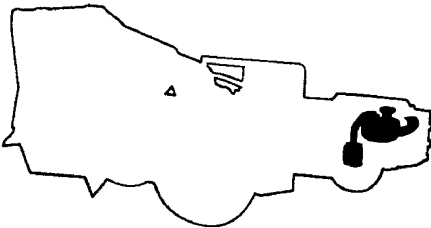
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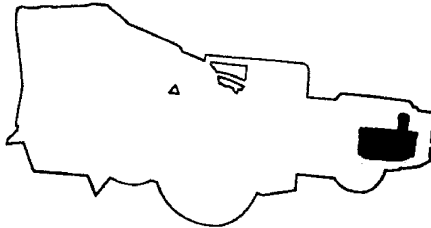
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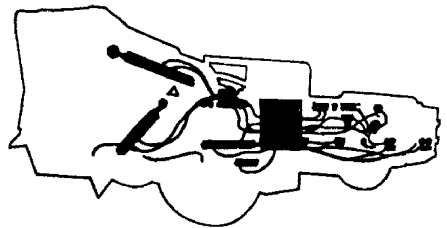
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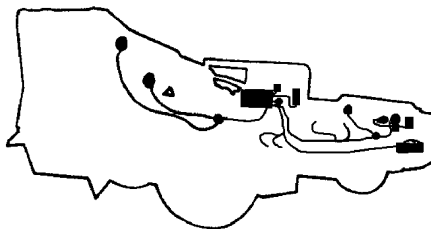
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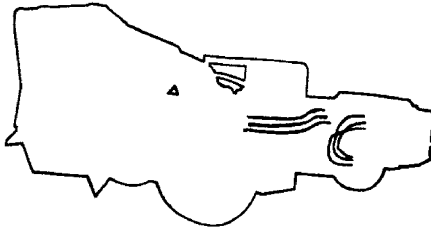
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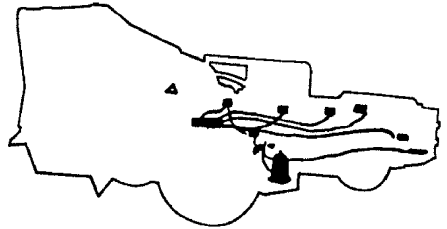
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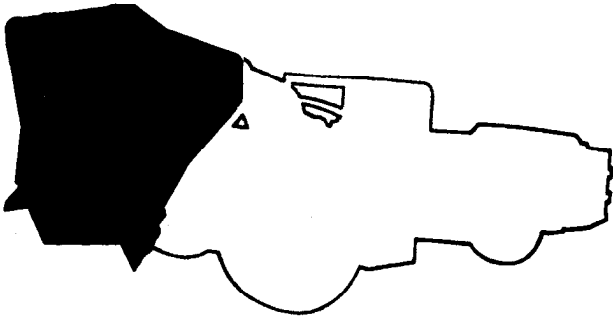
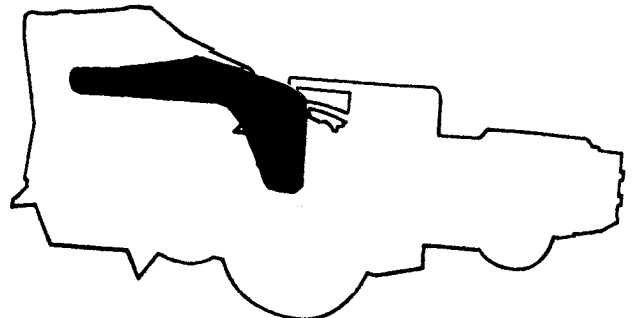
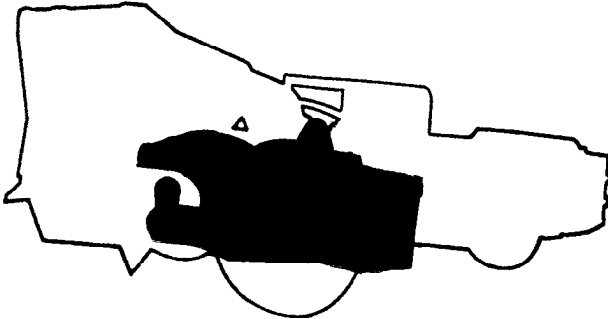
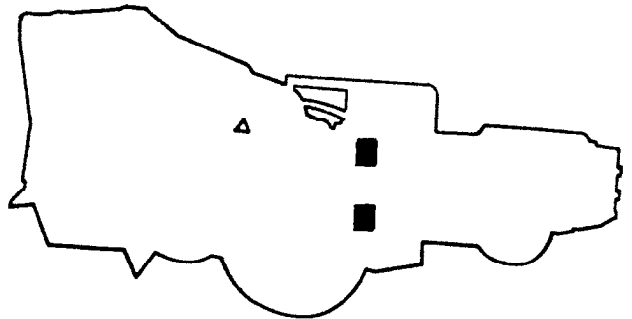
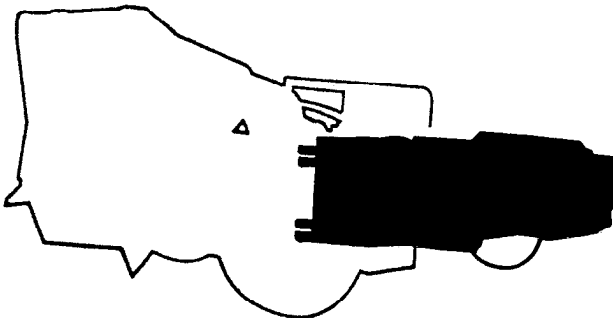
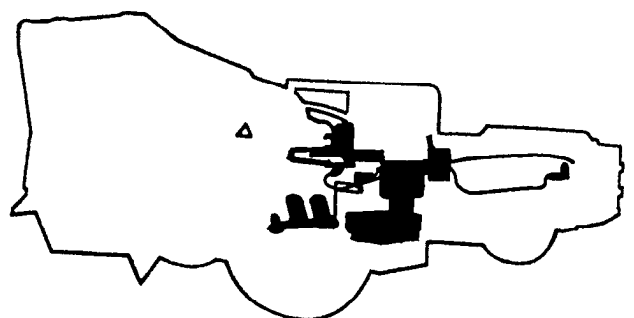
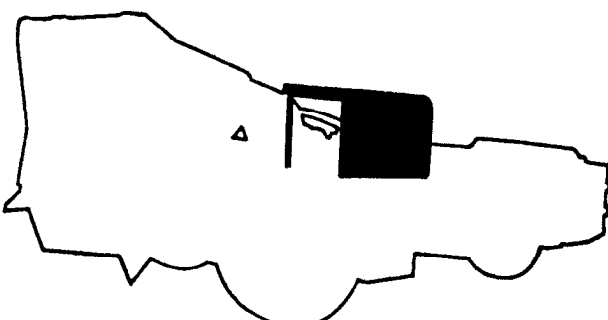
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P I
1300000

DATE: REV:		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER MAIN GROUP					Pg 001
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
	00			1		AARD 5.5 LP LOAD HAUL DUMPER	
1000	00		006	1		MECHANICAL GROUP	
2000	00		041	1		ENGINE GROUP	
3000	00		061	1		DRIVE TRAIN GROUP	
4000	00		121	1		AIR INTAKE AND EXHAUST GROUP	
6000	00		131	1		FUEL GROUP	
7000	00		141	1		HYDRAULIC GROUP	
9000	00		191	1		ELECTRICAL GROUP	
1100000			211	1		LUBRICATION GROUP	
1300000			221	1		FIRE SUPPRESSION GROUP	

**PAGES 002 TO 005 LEFT BLANK
FOR FUTURE USE**

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
MECHANICAL GROUPDATE:
REV:P I
1100 00P I
1200 00P I
1300 00P I
1400 00P I
1500 00P I
1600 00

P I

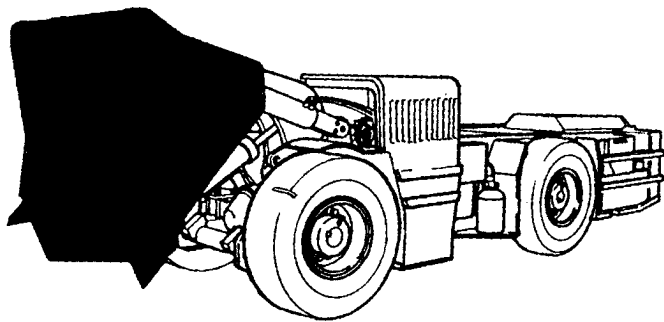


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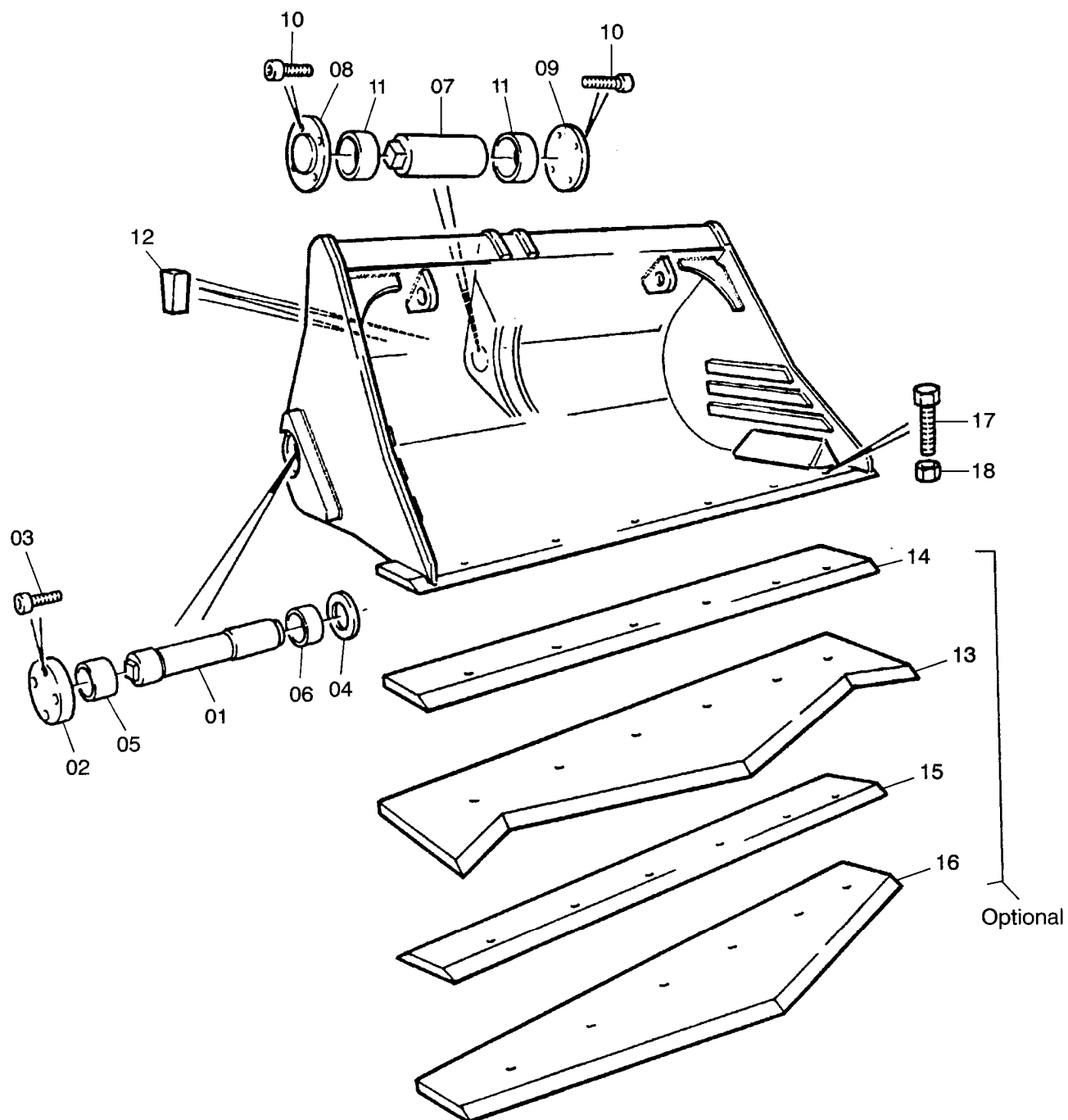
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER MECHANICAL GROUP					Pg 006
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1000	00					MECHANICAL GROUP	
1100	00		007	1	UV-0910004	BUCKET ASSEMBLY - 1,8M3	
1200	00		008	1	9000003	BOOM ASSEMBLY	
1300	00		009	1	9000041	LOAD FRAME ASSEMBLY	
1400	00		010	1	UV-09100345	ARTICULATION ASSEMBLY	
1500	00		011	1		REAR FRAME ASSEMBLY	
1600	00		017	1		OPERATOR STATION ASSEMBLY	
1700	00		027	1	9000220	OPERATOR CANOPY ASSEMBLY	
1800	00		028	1	UV-09100428	TRANSPORT SAFETY LOCK ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BUCKET ASSEMBLY – 1,8M³

DATE:
REV:



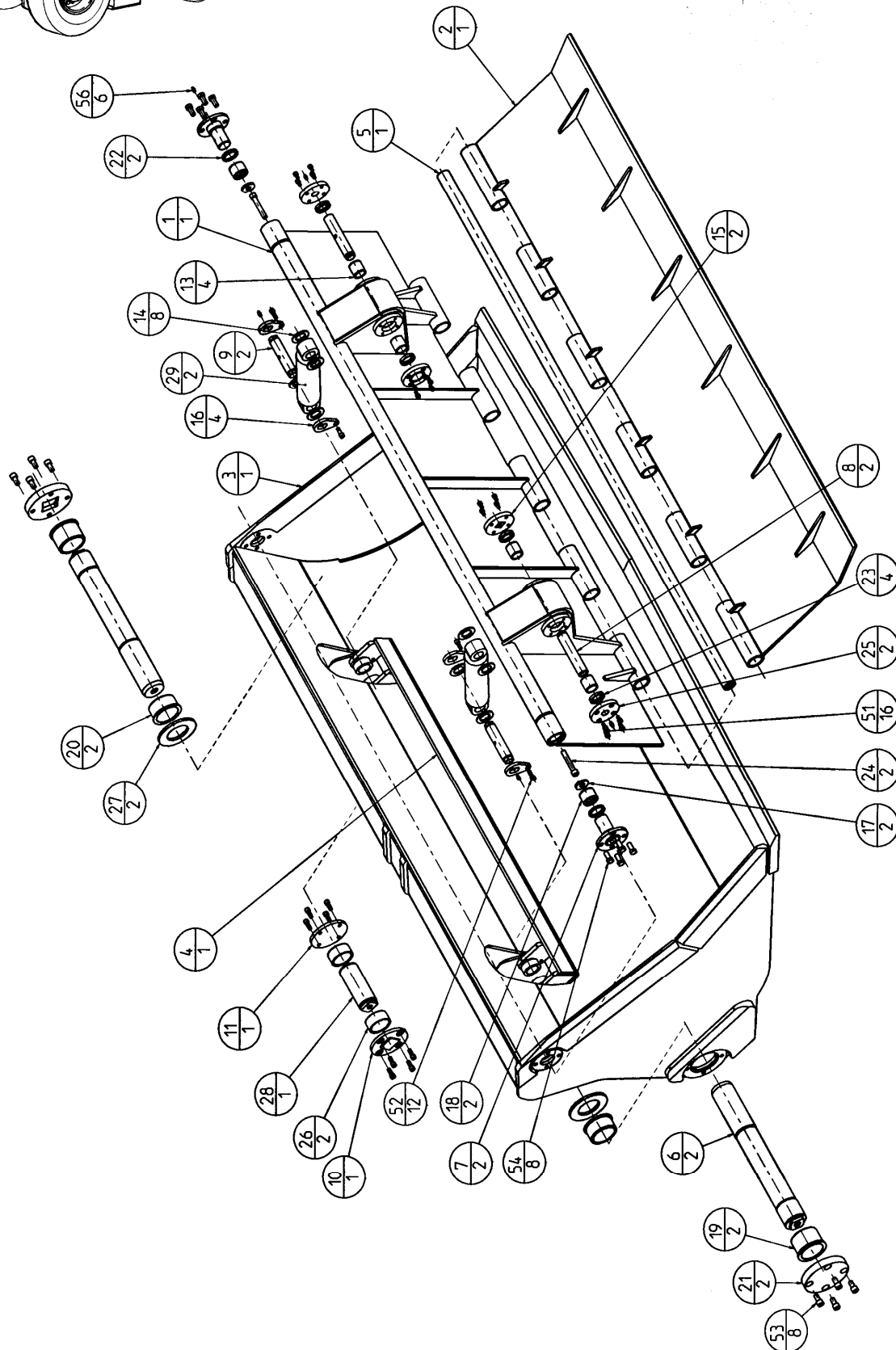
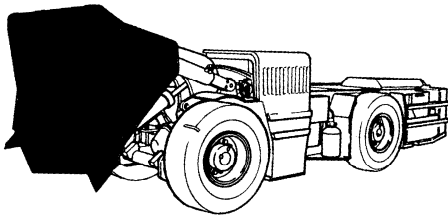
P I
1100 00



DATE: 13.12.2010 REV: FORTY EIGHT		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER BUCKET ASSEMBLY – 1,8M³					Pg 007A
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1100	00			1	UV-0910004	BUCKET ASSEMBLY - 1,8M ³	
	01			2	UV-0910005	PIN, 516 lg	
	02			2	UV-09100386	DISC, Locking	
	03			8	109-M16-30	SCREW, Cap Soc Hex Hd, M16 x 30 lg, Gr 8,8	
	04			2	UV-09100381	WASHER, Distance	
	05			2	UV-09100352	BUSH	
	06			2	UV-09100353	BUSH	
	07			1	UV-09100352	PIN	
	08			1	UV-09100355	DISC, Locking	
	09			1	UV-09100360	DISC, Locking	
	10			8	106-M12-30	SCREW, Cap Soc Hex Hd	
	11			2	UV-09100382	BUSH	
	12			2	UV-09100343	STOP, Bucket - Welded	
	13			1	UV-09100336	LIP - Option 1	
	14			1	UV-09100337	LIP - Option 2	
	15			1	9000694	LIP - Option 3	
	16			1	9001164	LIP - Option 4	
	17			6	UV-84600080	BOLT, Hex Hd Buck	
	18			6	121-16U	NUT, Hex 1" Uroc	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
EJECTOR BUCKET ASSEMBLY – 2,2M³

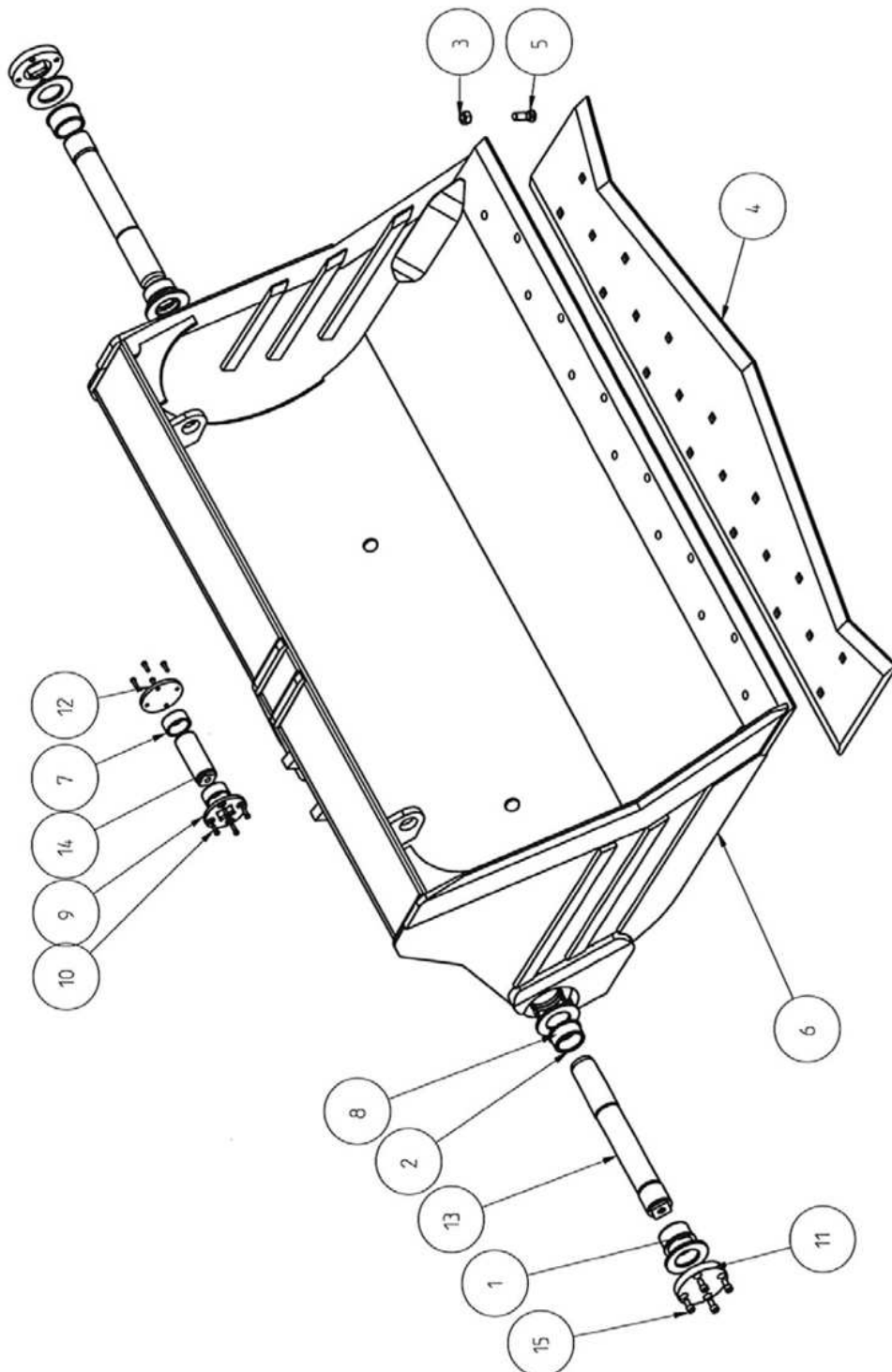
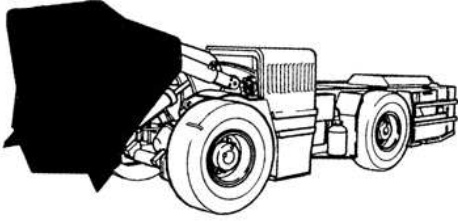
DATE: 08.11.05
REV: SIXTEEN



DATE: 17.11.2014 REV: NINETY NINE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER EJECTOR BUCKET ASSEMBLY – 2,2M³				Pg 007B
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1	9000230	EJECTOR BUCKET ASSEMBLY - 2,2M³	
01				1	9000344	BACK PLATE, Complete	
02				1	9000345	FRONT PLATE, Complete	
03				1	9000348	BUCKET BODY, Welding & Machining	
04				1	9000350	BRACKET, Cylinder, Complete	
05				1	9000351	PIN, Hinge	
06				2	9000352	PIN	
07				2	UV-0910032	PIN, Complete	
08				2	UV-0910033	PIN, Rod End	
09				2	UV-0910034	PIN, Rod End	
10				1	UV-09100355	LOCK PLATE, Assembly	
11				1	UV-09100360	LOCK PLATE	
13				4	UV-09100340	BUSH	
14				8	UV-09100338	SPACER, 5 Thk, 70 OD, 42 ID	
15				2	UV-09100389	LOCK PLATE	
16				4	UV-09100326	LOCK PLATE	
17				2	UV-09100390	WASHER, 53 OD, 20 ID, 8 Thick	
18				2	UV-09100391	BUSH	
19				2	UV-09100339	BUSH	
20				2	UV-09100392	BUSH	
21				2	UV-09100325	LOCK PLATE	
22				2	UV-09100393	SEAL, Shaft 65 OD, 50 ID, 8 Wide	
23				4	UV-09100394	SEAL, Shaft 60 OD, 40 ID, 10 Wide	
24				2	109-M16-30	CAP SCREW, Hex. Socket Hd	
25				2	UV-09100395	DISC, Cover	
26				2	UV-09100382	BUSH	
27				2	UV-09100381	WASHER, Distance	
28				1	UV-09100362	PIN	
29				2	9001094	CYLINDER, Ejecting	
51				16	109-M10-16	SCREW, Cap, M10 X 16	
52				12	109-M12-30	SCREW, Cap, M10 X 30	
53				8	109-M16-30	SCREW, Socket Head	
54				8	102-M16-35	SCREW, Set	
56				6	DP47006598	NIPPLE, Grease M10 x 1	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BUCKET ASSEMBLY – 2,2M³

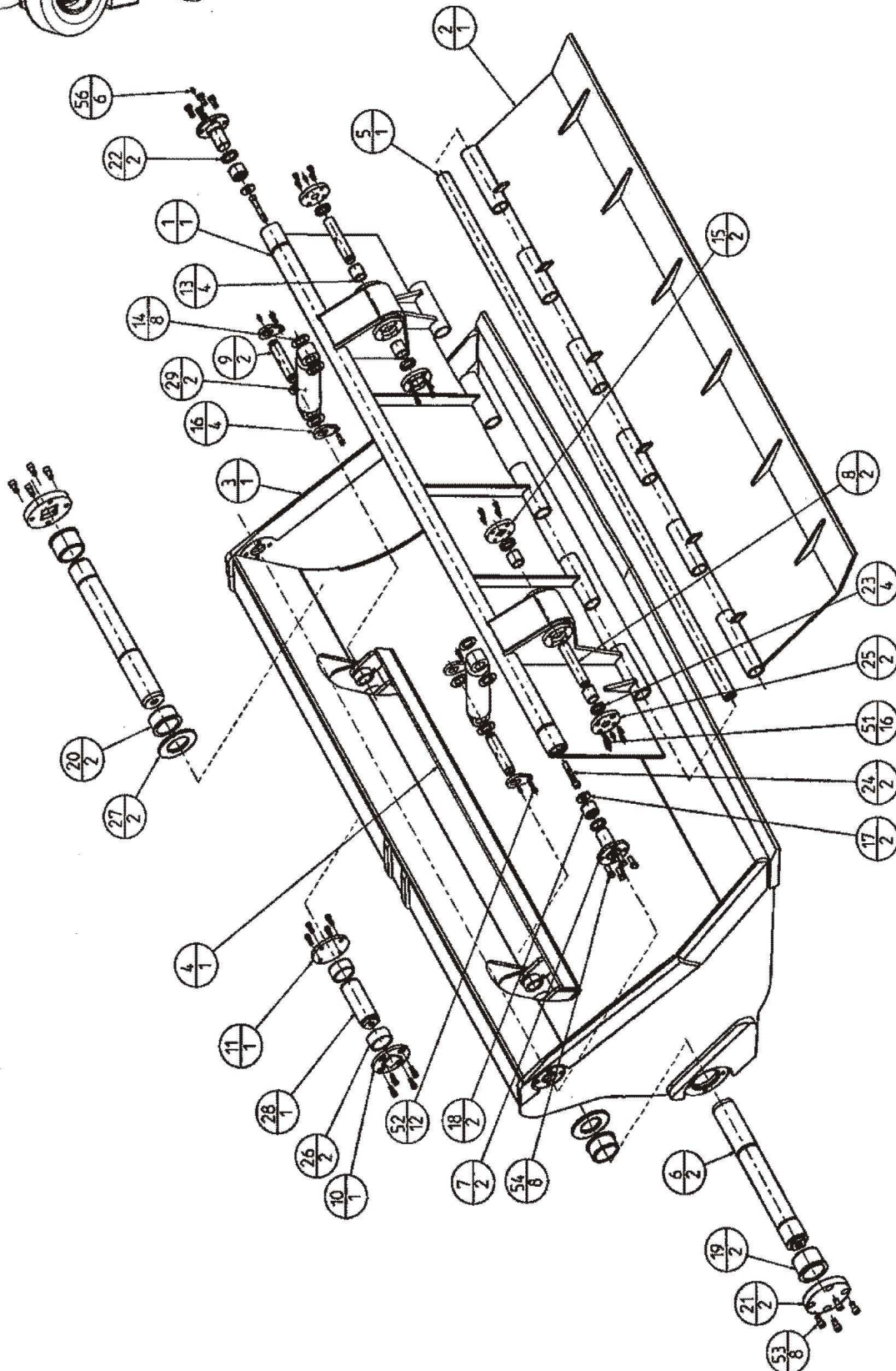
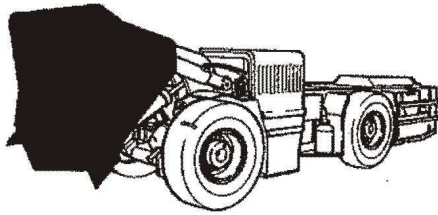
DATE: 02.08.2013
REV: EIGHTY ONE



DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER BUCKET ASSEMBLY – 2,2M³					Pg 007C
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1	UV-09100147	EJECTOR BUCKET ASSEMBLY - 2,2M³	
01				2	UV-09100352	BUSH, Bucket 60 lg	
02				2	UV-09100353	BUSH, Bucket 50 lg	
03				13	121-16U	UNC NUT, Hex 1"	
04				1	UV-09100149	ARROW, Type Lip (Long)	
05				13	UV-84600080	BOLT	
06				1	UV-09100148	BUCKET BODY, Welding and Machining	
07				2	UV-09100382	BUSH	
08				4	UV-09100381	WASHER, Distance	
09				1	UV-09100355	FLANGE	
10				8	106-M12-30	SCREW, Hex Head Set	
11				2	UV-09100386	LOCK DISK	
12				1	UV-09100360	LOCK PLATE	
13				2	9000352	PIN	
14				1	UV-09100362	PIN	
15				8	109-M16-30	SOCKET, Head Cap Screw	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
EJECTOR BUCKET ASSEMBLY – 1,6M³

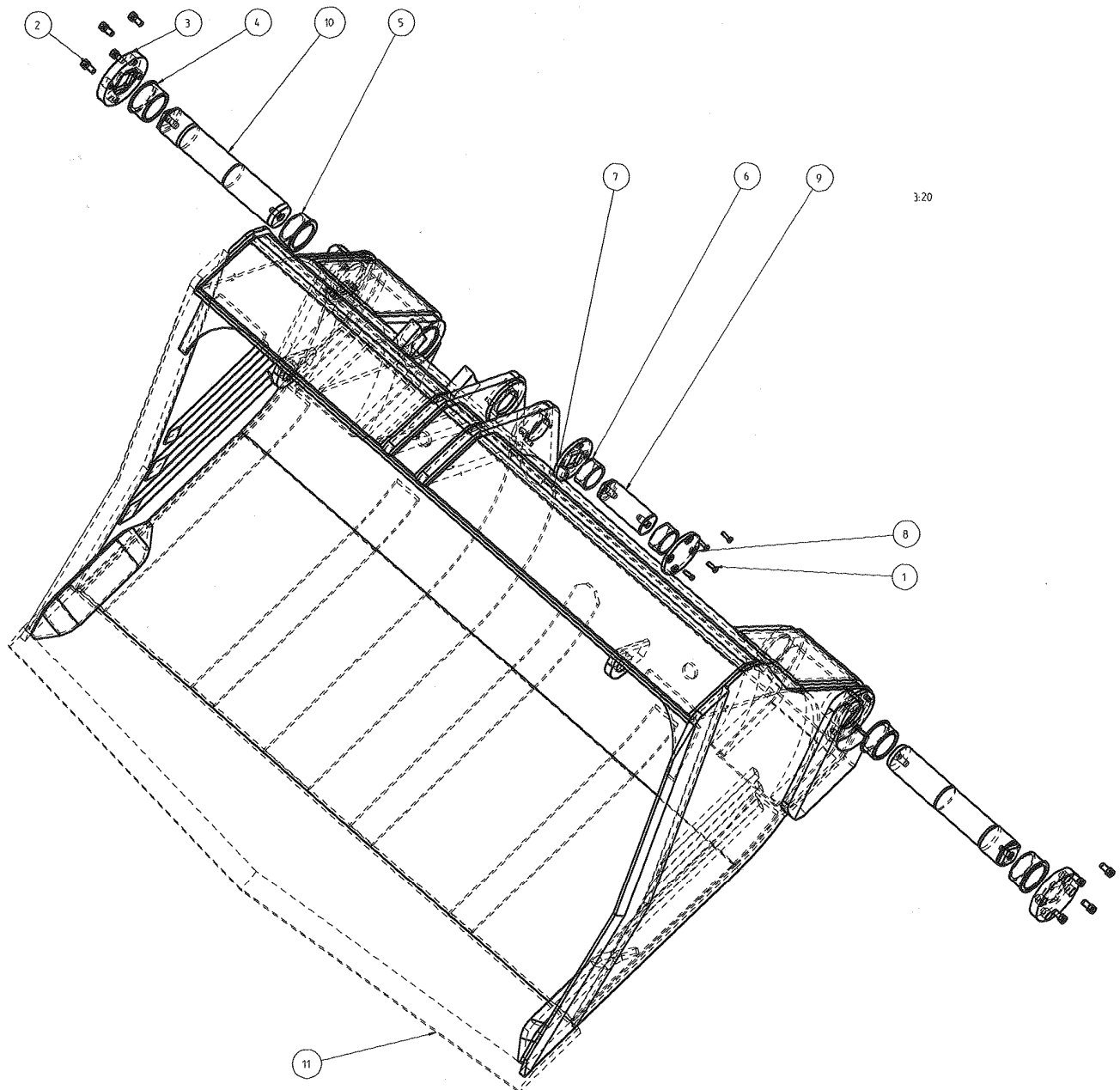
DATE: 15.04.2011
REV: FIFTY TWO



DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER EJECTOR BUCKET ASSEMBLY – 1,6M³					Pg 007D
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1	UV-09100145	EJECTOR BUCKET ASSEMBLY - 1,6M³	
01				1	9000344	BACK PLATE, Complete	
02				1	9000345	FRONT PLATE, Complete	
03				1	UV-09100146	BUCKET BODY, Welding & Machining	
04				1	9000350	BRACKET, Cylinder, Complete	
05				1	9000351	PIN, Hinge	
06				2	9000352	PIN	
07				2	UV-09100320	PIN, Complete	
08				2	UV-09100333	PIN, Rod End	
09				2	UV-09100334	PIN, Rod End	
10				1	UV-09100355	LOCK PLATE, Assembly	
11				1	UV-09100360	LOCK PLATE	
13				4	UV-09100340	BUSH	
14				8	UV-09100338	SPACER, 5 Thk, 70 OD, 42 ID	
15				2	UV-09100389	LOCK PLATE	
16				4	UV-09100326	LOCK PLATE	
17				2	UV-09100390	WASHER, 53 OD, 20 ID, 8 Thick	
18				2	UV-09100391	BUSH	
19				2	UV-09100339	BUSH	
20				2	UV-09100392	BUSH	
21				2	UV-09100325	LOCK PLATE	
22				2	UV-09100393	SEAL, Shaft 65 OD, 50 ID, 8 Wide	
23				4	UV-09100394	SEAL, Shaft 60 OD, 40 ID, 10 Wide	
24				2	109-M16-30	CAP SCREW, Hex. Socket Hd	
25				2	UV-09100395	DISC, Cover	
26				2	UV-09100382	BUSH	
27				2	UV-09100381	WASHER, Distance	
28				1	UV-09100382	PIN	
29				2	9000679	CYLINDER, Ejecting	
51				16	109-M10-16	SCREW, Cap, M10 x 16	
52				12	109-M12-30	SCREW, Cap, M10 x 30	
53				8	109-M16-30	SCREW, Socket Head	
54				8	102-M16-35	SCREW, Set	
56				6	DP47006598	NIPPLE, Grease M10 x 1	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BUCKET ASSEMBLY – 1,8M³**

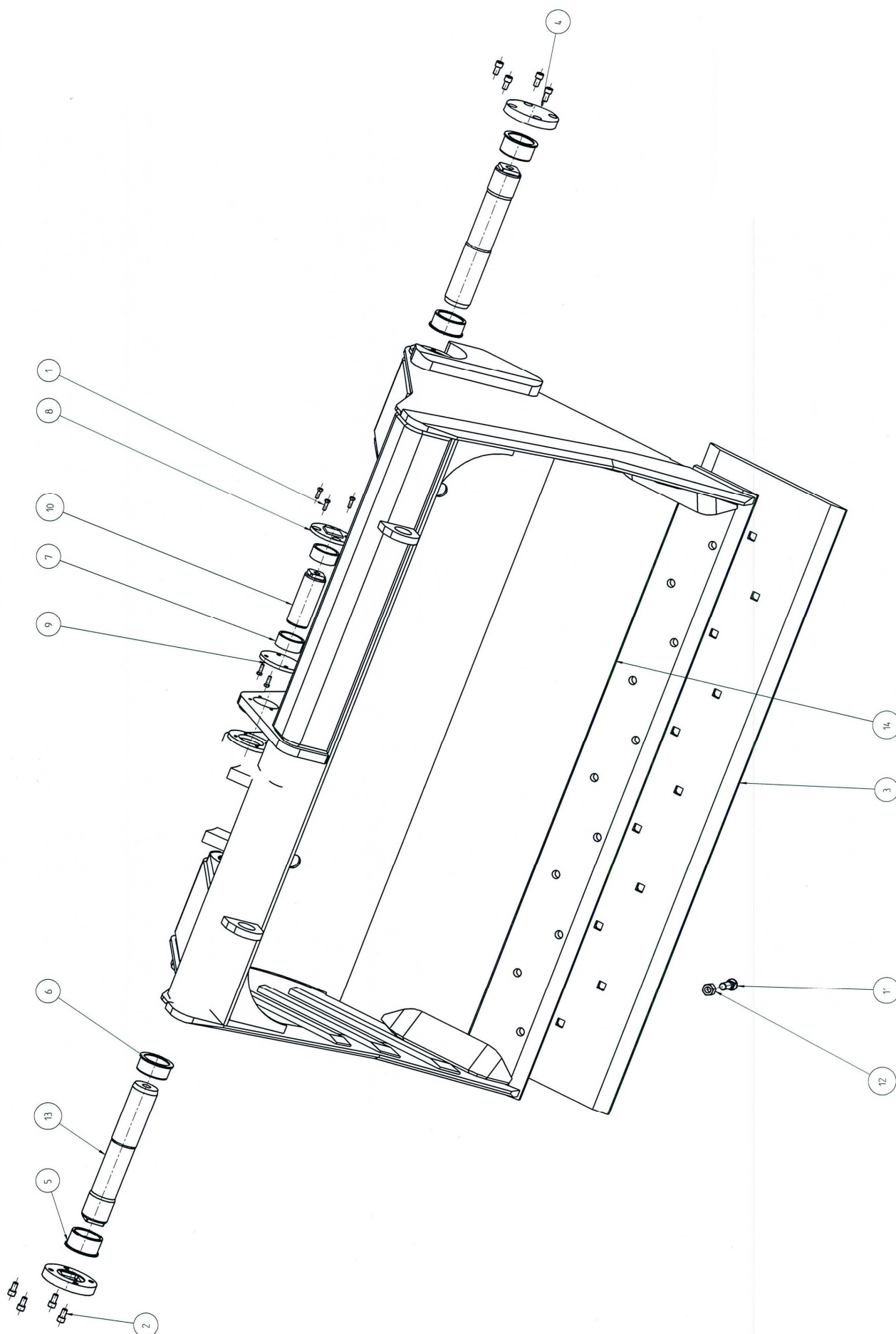
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REV: EIGHTY ONE



DATE: 17.11.2014 REV: NINETY NINE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER BUCKET ASSEMBLY – 1,8M³				Pg 007E
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1	UV-09100236-KIT	BUCKET ASSEMBLY - 1,8M ³	
01				4	106-M12-30	SCREW SET, Hex Hd, Gr8.8	
02				8	109-M16-30	FRONT PLATE, Complete	
03				2	UV-09100386	BUCKET BODY, Welding & Machining	
04				2	UV-09100352	BUSH BUCKET	
05				2	UV-09100353	BUSH BUCKET	
06				2	UV-09100382	BUSH	
07				1	UV-09100355	LOCK PLATE, Assembly	
08				1	UV-09100360	LOCK PLATE	
09				1	UV-09100382	PIN	
10				2	UV-0910005	PIN, Boom & Bucket Ø92/90	
11				1	UV-09100236	BUCKET BODY, Welding & Machining	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BUCKET ASSEMBLY – 1,6M³

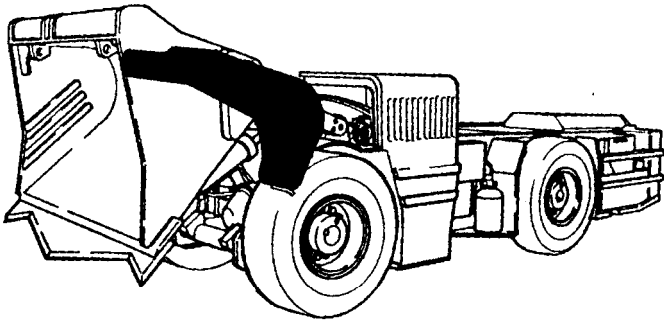
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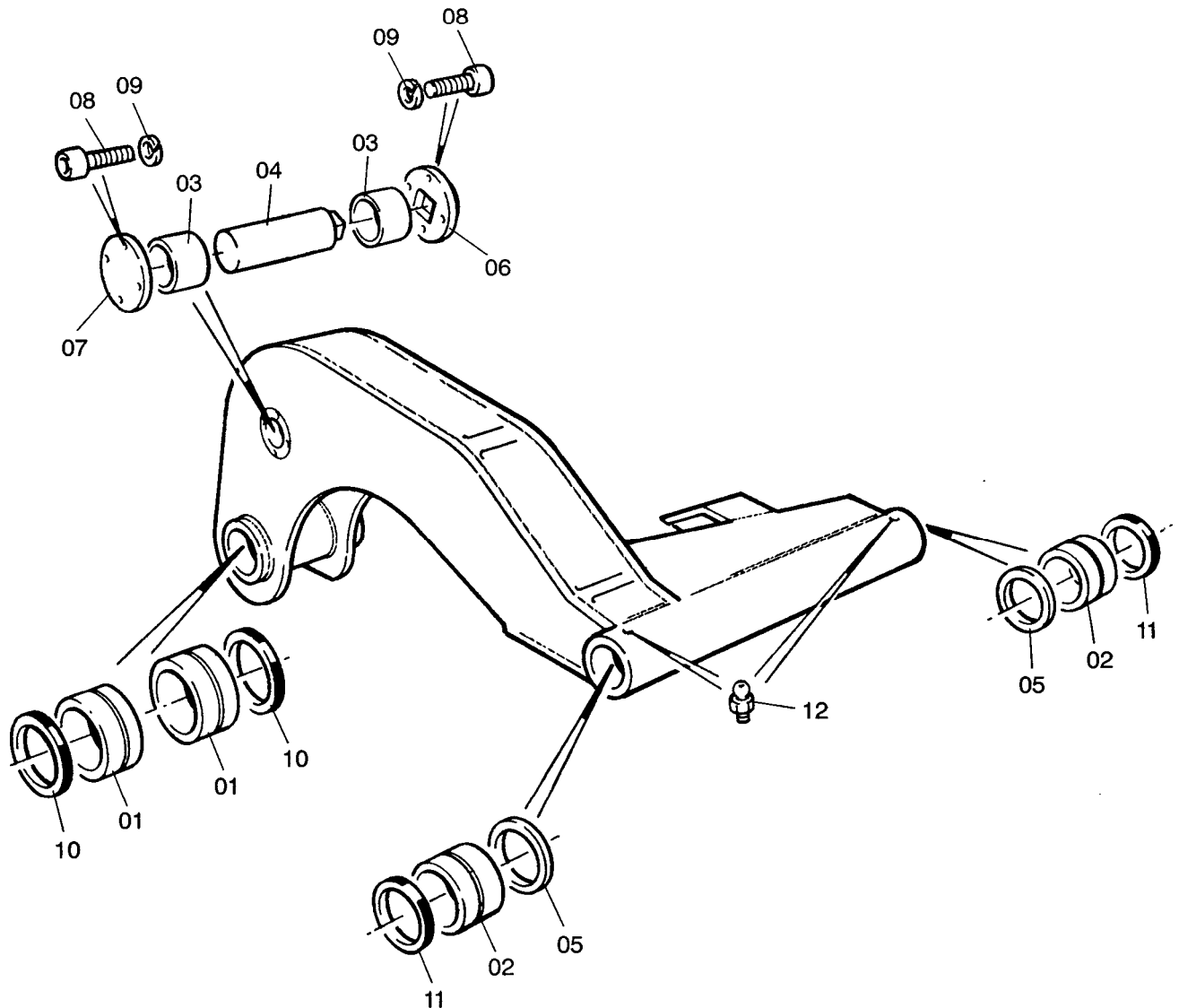
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Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1	UV-09100126-KIT	BUCKET ASSEMBLY - 1,6M ³	
01				8	106-M12-30	SCREW SET, Hex Hd, Gr8.8	
02				8	109-M16-30	SOCKET HEAD, Cap Screw	
03				1	9000694	STR. TYPE LIP TURN AROUND	
04				2	UV-09100386	LOCK DISC	
05				2	UV-09100352	BUSH BUCKET	
06				2	UV-09100353	BUSH BUCKET	
07				2	UV-09100382	BUSH	
08				1	UV-09100355	LOCK PLATE, Assembly	
09				1	UV-09100360	LOCK PLATE	
10				1	UV-09100382	PIN	
11				11	UV-84600080	BOLT, 1" x 3", New Type Buck	
12				11	121-16U	NUT, Hex 1" UNC	
13				2	UV-0910005	PIN, Boom & Bucket Ø92/90	
14				1	UV-09100126	BUCKET BODY, 1.6m ³	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BOOM ASSEMBLY

DATE:
REV:



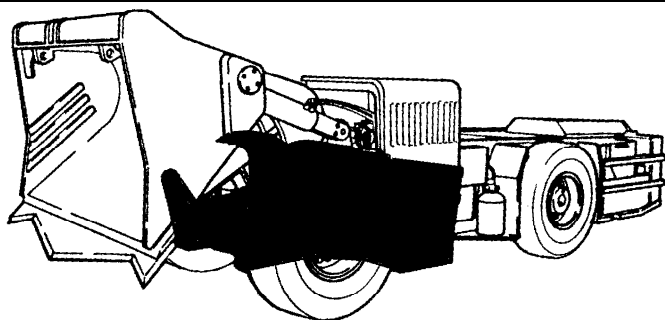
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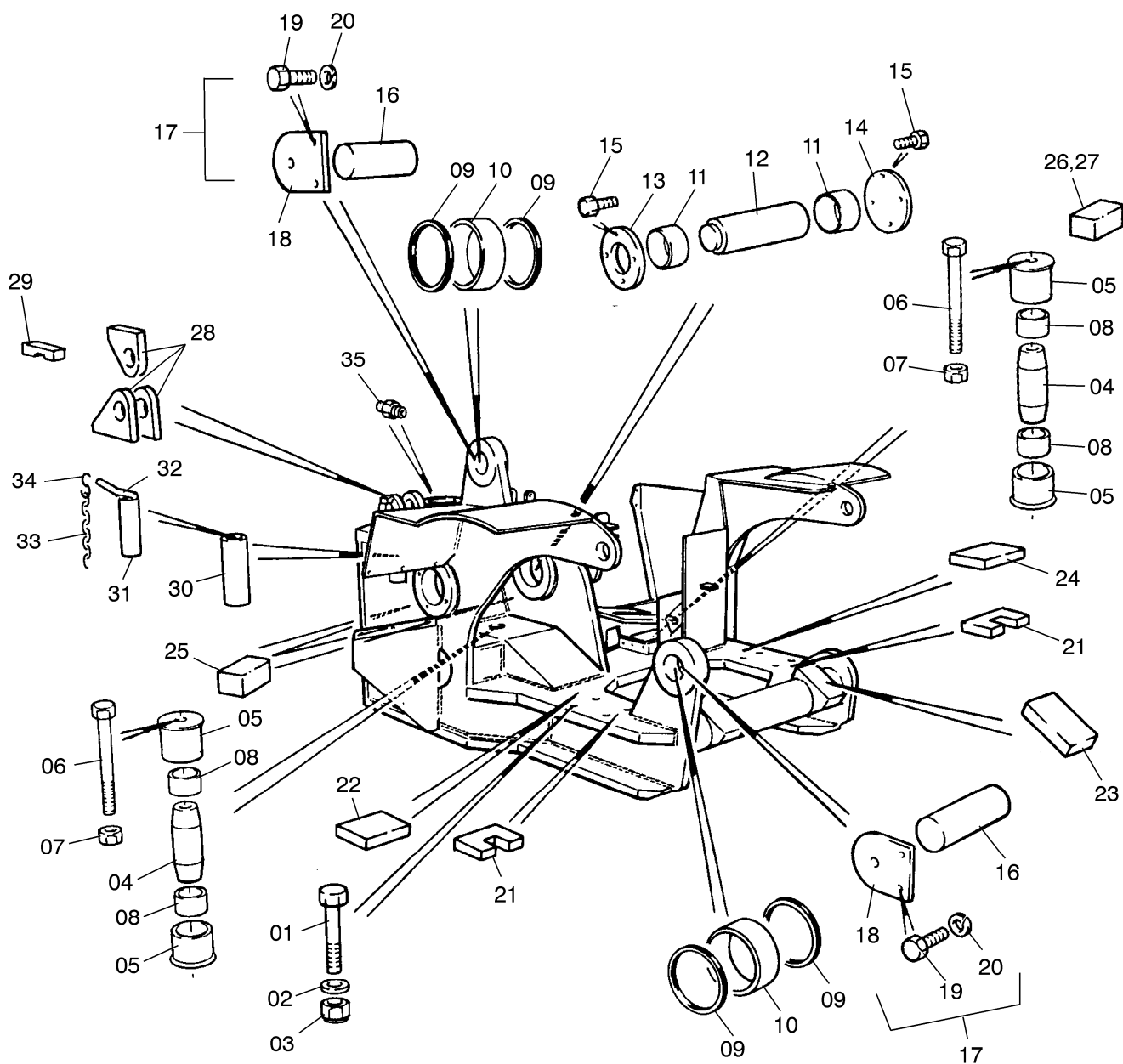
DATE: 01.02.2017 REV: HUNDRED & TWENTY ONE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER BOOM ASSEMBLY				Pg 008
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1200	00			1	UV-09100268	BOOM HD ASSEMBLY	
	01			2	UV-09100354	BUSH	
	02			2	9000321	BUSH	
	03			2	UV-09100341	BUSH	
	04			1	UV-09100367	PIN	
	05			2	UV-09100377	SPACER	
	06			1	UV-09100355	LOCK, Pin Safety	
	07			1	UV-09100360	COVER, Safety Lock	
	08			8	106-M12-20	SCREW, Cap Soc Hex Hd	
	09			8	143-M12	WASHER, Spring	
	10			2	UV-94000105	SEAL, Shaft	
	11			2	UV-94000106	SEAL, Shaft	
	12			4	260-M10	ADAPTOR, Grease Straight, Male	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
LOAD FRAME ASSEMBLY

DATE:
REV:



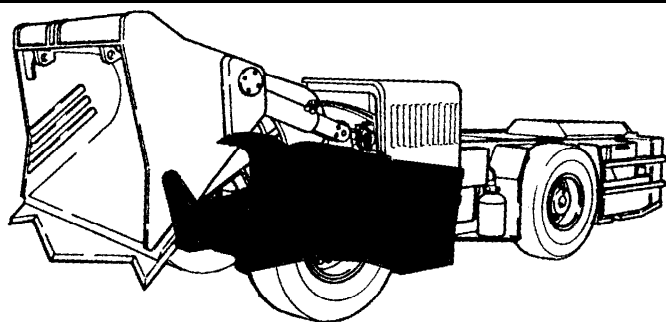
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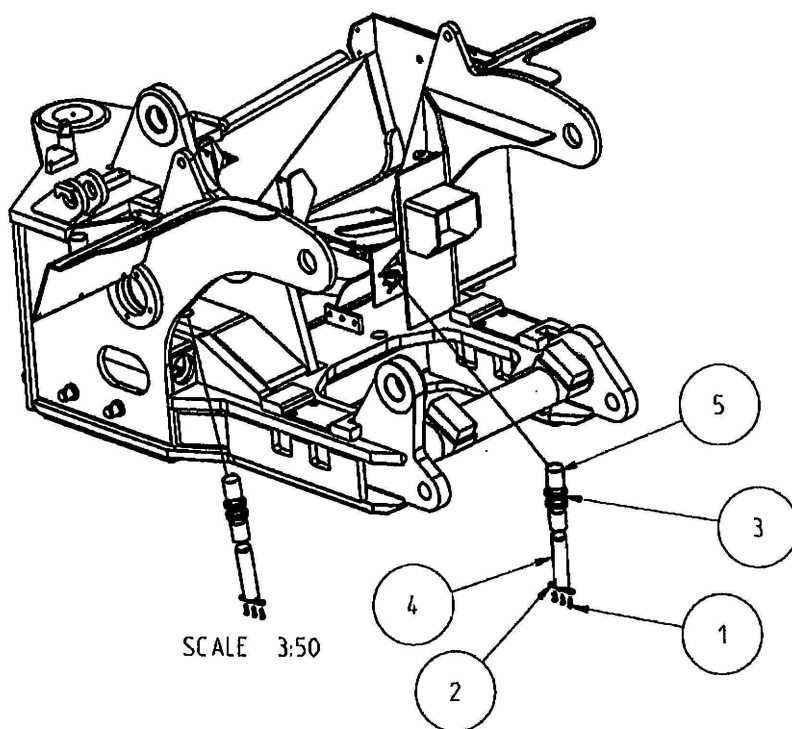
DATE: 06.07.2016 REV: HUNDRED & NINETEEN		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER LOAD FRAME ASSEMBLY					Pg 009
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1300	00			1	9000041	LOAD FRAME ASSEMBLY	
	01			12	101-M24-1,5-320	BOLT, Hex Hd - Front Axle Mounting	
	02			24	140-M24	WASHER, Flat	
	03			24	130-M24-1.5	NUT, Hex	
	04			2	UV-09100371	PIN	
	05			4	UV-09100363	BUSH, Lock	
	06			2	102-M16-240	SCREW, Hex Hd, M16 x 240 lg	
	07			2	128-M16	NUT, Hex Nyloc	
	08			4	UV-09100378	SPACER	
	09			4	UV-94000107	OIL SEAL	
	10			2	UV-09100350	BUSH	
	11			2	UV-09100379	SPACER	
	12			1	UV-09100366	PIN	
	13			1	UV-09100361	PLATE, Lock	
	14			1	UV-09100356	PLATE, Cover	
	15			8	106-M16-25	SCREW, Hex Hd	
	16			2	UV-09100368	PIN	
	17			2	UV-09100331	PLATE ASSEMBLY, Lock c/w Items 18 - 20	
	18			2	UV-09100364	PLATE, Lock	
	19			8	106-M12-30	SCREW, Hex Hd	
	20			8	143-M12	WASHER	
	21			2	9000144_60	BUFFER - Welded	
	22			1	9000144_70	BUFFER - Welded	
	23			2	UV-09100351	BUFFER - Welded	
	24			1	9000144_71	BAR, Axle Locating - Welded	
	25			2		BLOCK, Articulation Stop - Welded	
	26			1	} UV-09100155	BLOCK, Articulation Stop, Front - Welded	
	27			1		BLOCK, Articulation Stop, Rear - Welded	
	28			3		BRACKET - Welded	
	29			1	9000144_98	PLATE, Lock - Welded	
	30			1	9000144_33	TUBE - Welded	
	31			1	UV-09100319	PIN, Safety	
	32			1	UV-09100321	HANDLE, Safety Pin - Welded	
	33			1	200-EL-4-200	CHAIN, 400 lg - Welded	
	34			1	UV-84800046	S-HOOK	
	35			2	260-M10	ADAPTOR, Grease Straight, Male	
	36			1	UV-09100108	GUARD, Bucket Safety Pin	
	37			1	UV-81300240	DECAL NOISE LEVEL IN CAB (Not Illustrated)	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
STEERING PIN ASSEMBLY LOAD END

DATE: 31.08.2011
REV: FORTY
FOUR



P I
1300 00



SCALE 3:50

DATE: 17.11.2014
REV: NINETY NINE

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
STEERING PIN ASSEMBLY LOAD END

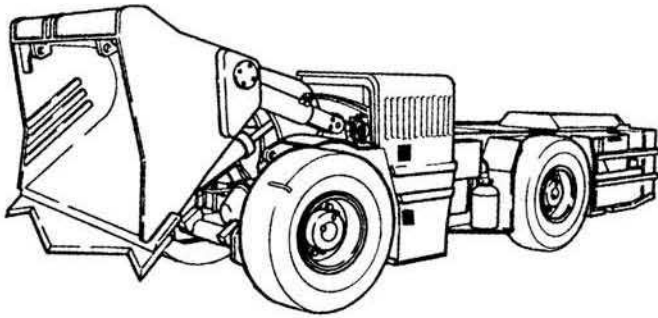
Pg 009A

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
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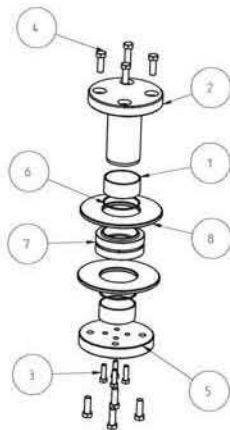
1300	00			1	UV-09100169	STEERING PIN ASSEMBLY LOAD END	
	01			6	102-M8-25	BOLT, Hex Hd, M8 X 25 lg	
	02			2	UV-09100167-01	LOCK PLATE	
	03			4	UV-09100378	SPACER RING	
	04			2	UV-09100167	STEERING PIN & LOCK PLATE	
	05			4	UV-09100168	STEERING PIN BUSH, Load End	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ARTICULATION ASSEMBLY

DATE: 06.11.2012
REV: SEVENTY FIVE



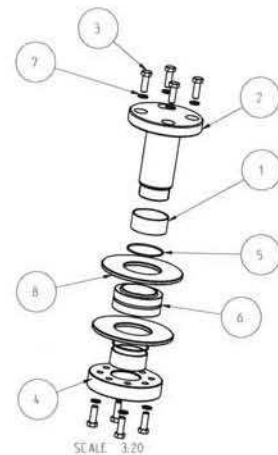
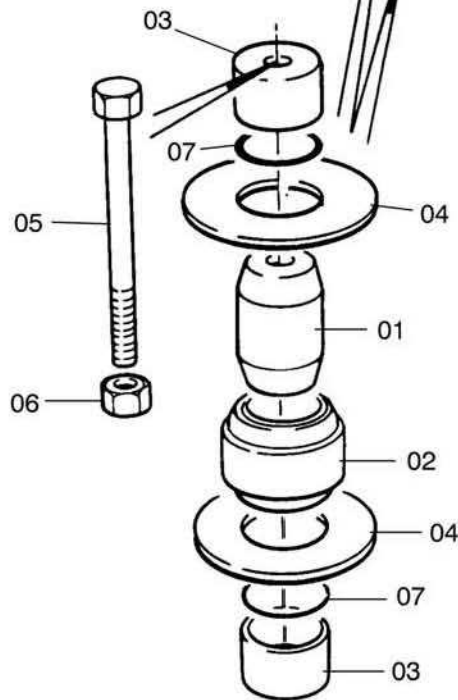
P I
1400 00



SCALE 3:20
UV-09100141

Refer to
Page 012

Refer to
Page 009



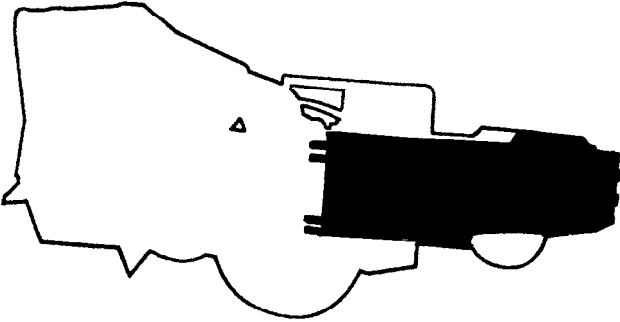
SCALE 3:20

UV-09100153

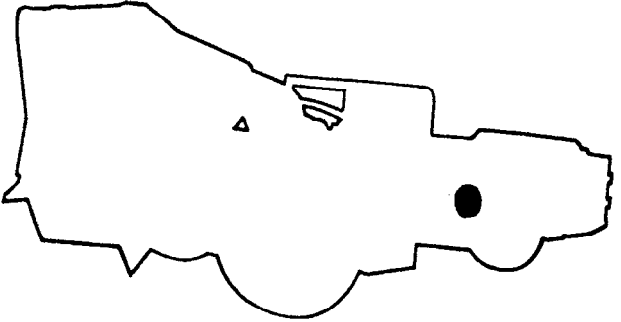
DATE: 26.08.2015 REV: HUNDRED & TWELVE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER ARTICULATION ASSEMBLY				Pg 010
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1400	00			1	UV-09100345	ARTICULATION ASSEMBLY	
	01			2	UV-09100365	PIN	
	02			2	UV-80800015	BEARING, Joint	
	03			4	9003294	BUSH, Clamping	
	04			4	UV-83300006	DISC, Sliding	
	05			2	104-M30-220	BOLT, Hex Hd	
	06			2	128-M30	NUT, Hex	
	07			4	UV-94000073	O-RING	
					<u>UV-09100141</u>	<u>ARTICULATION ASSEMBLY MIMOSA</u>	
	01			4	UV-09100138	BUSH, Articulation	
	02			2	UV-09100136	PIN, Articulation	
	03			8	104-M12-40	BOLT, Hex Hd M12 x 40 lg	
	04			16	104-M16-45	BOLT, Hex Hd M16 x 45 lg	
	05			2	UV-09100137	LOCK PLATE, Articulation	
	06			4	UV-94000073	O-RING	
	07			2	UV-80800015	BEARING	
	08			4	UV-83300006	WASHER, Thrust	
					<u>UV-09100153</u>	<u>ARTICULATION ASSEMBLY SCREW TYPE</u>	
	01			4	UV-09100138	BUSH, Articulation	
	02			2	UV-09100151	PIN, Articulation	
	03			16	104-M16-45	BOLT, Hex Hd Fine Pitch	
	04			2	UV-09100152	LOCK PLATE, Articulation	
	05			4	UV-94000073	O-RING Ø91.67 X 3.53	
	06			2	UV-80800015	SPERICAL GE900ES-2RS	
	07			16	143-M16	WASHER, Spring	
	08			4	UV-83300006	WASHER, Thrust	
				1	UV-91500079	STEEL KIT PIPE ARTICULATION AREA	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
REAR FRAME ASSEMBLY

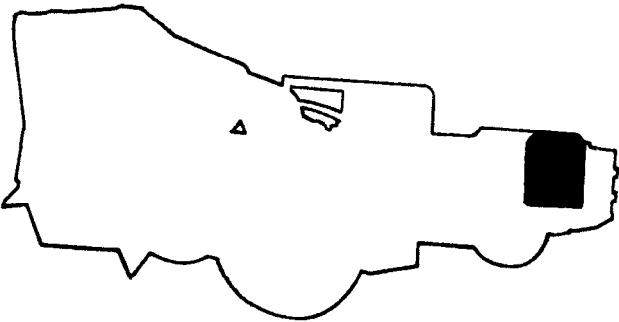
DATE:
REV:



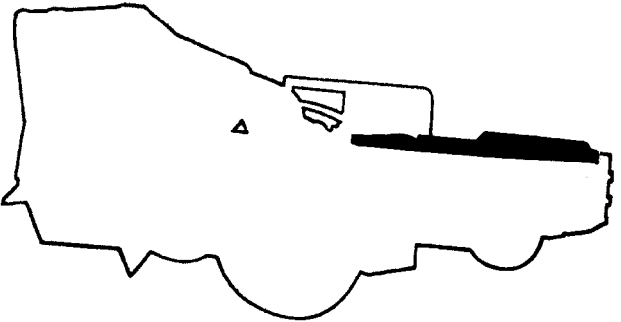
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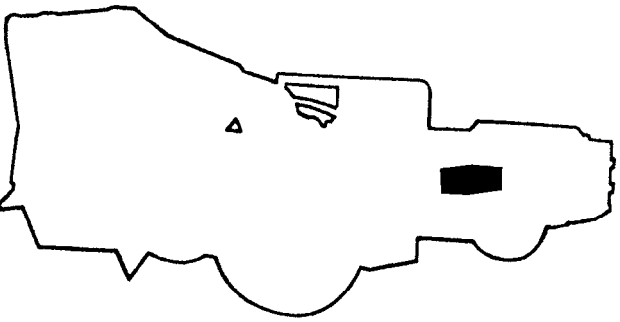
P I
1520 00



P I
1530 00



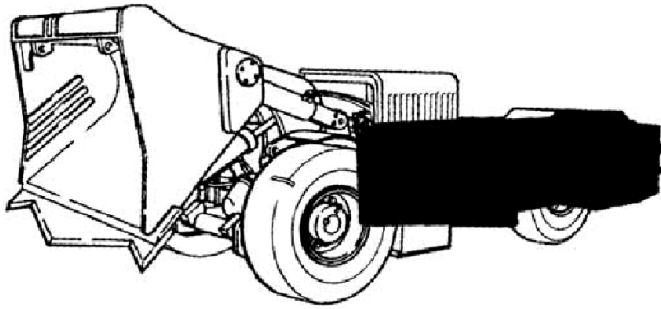
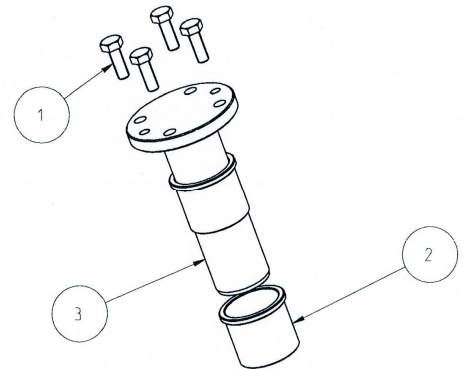
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1540 00



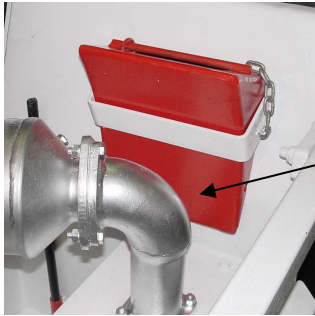
P I
1550 00

DATE: 17.11.2014 REV: NINETY NINE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER REAR FRAME ASSEMBLY				Pg 011
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1500	00			1		REAR FRAME ASSEMBLY	
1510	00		012	1	9000040	REAR FRAME FINAL ASSEMBLY	
1520	00		013	1	UV-09100347	REAR FRAME OSCILLATING AXLE MOUNTING ASSEMBLY	
1530	00		014	1	9000195A	REAR FRAME GRILL DOOR ASSEMBLY FOR BF6L913 & BF6L914 AIR COOLED ENGINES	
1540	00		015	1		REAR FRAME COVERS ASSEMBLY FOR BF6L913 & BF6L914 AIR COOLED ENGINES	
1550	00		016	1	UV-09100068	REAR FRAME BATTERY BOX ASSEMBLY FOR BF6L913 & BF6L914 AIR COOLED ENGINES	

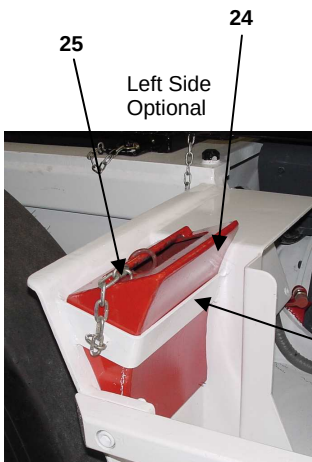
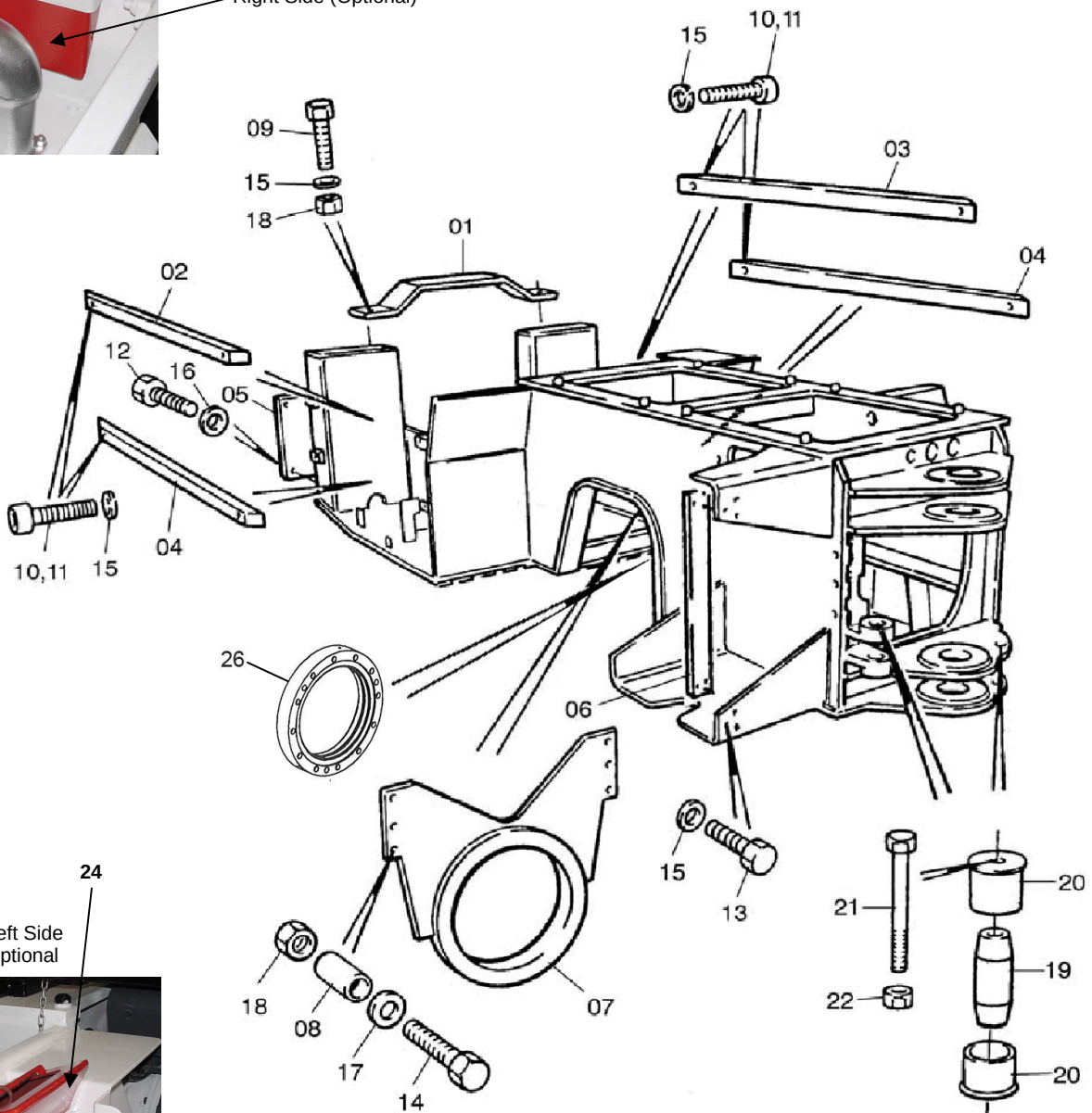
AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER REAR FRAME FINAL ASSEMBLY

DATE: 09.12.2014
REV: HUNDREDP I
1510 00

UV-09100239



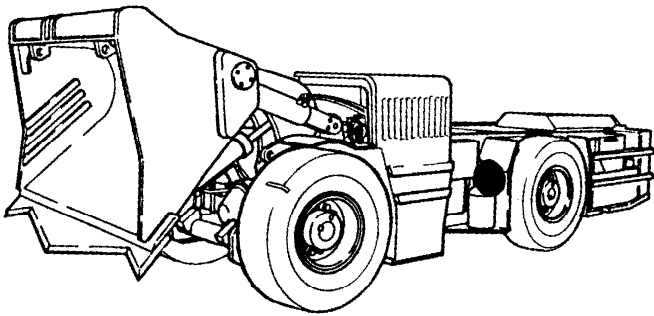
Right Side (Optional)

Left Side
Optional

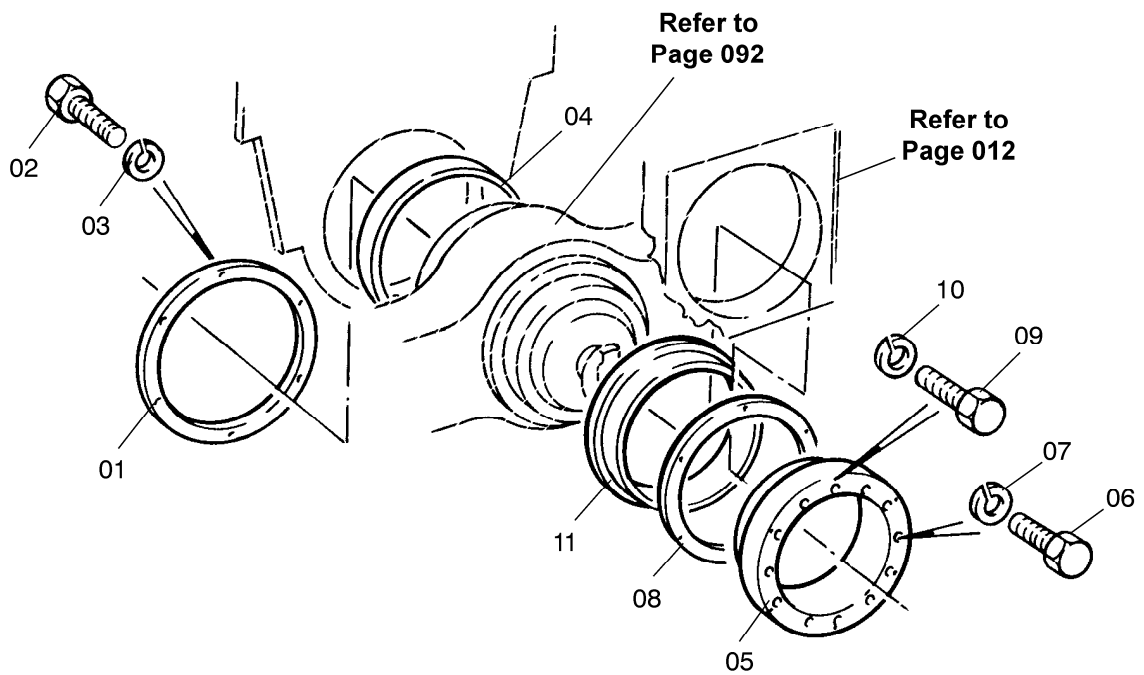
DATE: 09.12.2014 REV: HUNDRED		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER REAR FRAME FINAL ASSEMBLY					Pg 012
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1510	00			1	9000040	REAR FRAME FINAL ASSEMBLY	
	01			1	UV-09100401	SUPPORT, Cross	
	02			1	UV-09100372	PROTECTION, Bump - RH	
	03			1	UV-09100372	PROTECTION, Bump - LH	
	04			2	UV-09100372	PROTECTION, Bump	
	05			2	UV-09100243	PLATE, Cover - Rear	
	06			1	UV-09100402	PLATE, Support	
	07			1	9001166	SUPPORT, Oscillation	
	08			6	UV-09100352	SLEEVE, Locator, 80 mm lg	
	09			4	102-M16-60	BOLT, Hex Hd, M16	
	10			4	109-M16-100	SCREW, Cap Soc Hex Hd, M16 x 100 lg	
	11			4	109-M16-80	SCREW, Cap Soc Hex Hd, M16 x 80 lg	
	12			8	102-M12-40	BOLT, Hex Hd, M12 x 40 lg	
	13			6	105-M16-40	BOLT, Hex Hd, M16 x 40 lg	
	14			6	102-M16-110	BOLT, Hex Hd, M16	
	15			18	143-M16	WASHER, Spring, Dia. 16	
	16			8	143-M12	WASHER, Spring, Dia. 12	
	17			6	141-M16	WASHER, Flat, Dia. 16	
	18			10	121-M16	NUT, Hex, M16	
	19			2	UV-09100403	PIN, Rod End - Steering Cylinder	
	20			4	UV-09100363	BUSH, Lock	
	21			2	104-M16-200	BOLT, Hex Hd, M16 x 200 lg	
	22			2	128-M16	NUT, Hex, M16	
	23			2	UV-0800442	MOUNTING, Stop Block (Optional)	
	24			2	UV-0800441	STOP BLOCK (Optional)	
	25			2	220-ELL-4,5	CHAIN, Extra long link (Optional)	
	26			1	UV-09100227	RING REPLACEMENT	
					<u>UV-09100239</u>	<u>STEERING PIN ENGINE FRAME</u>	
	01			8	102-M10-30	BOLT, Hex Hd, M10 x 30 lg	
	02			4	UV-09100238	STEERING BUSH	
	03			2	UV-09100139	STEERING PIN, Ø50 x 160 lg	
					<u>OPTION</u>		
				1	UV-09100046	SPLIT, Support Oscillation	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
REAR FRAME OSCILATING AXLE MOUNTING ASSEMBLY

DATE:
REV:



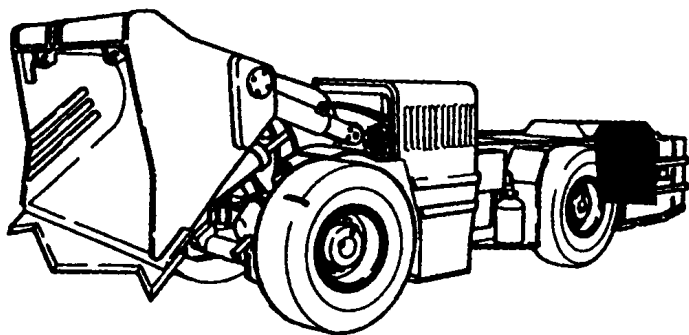
P I
1520 00



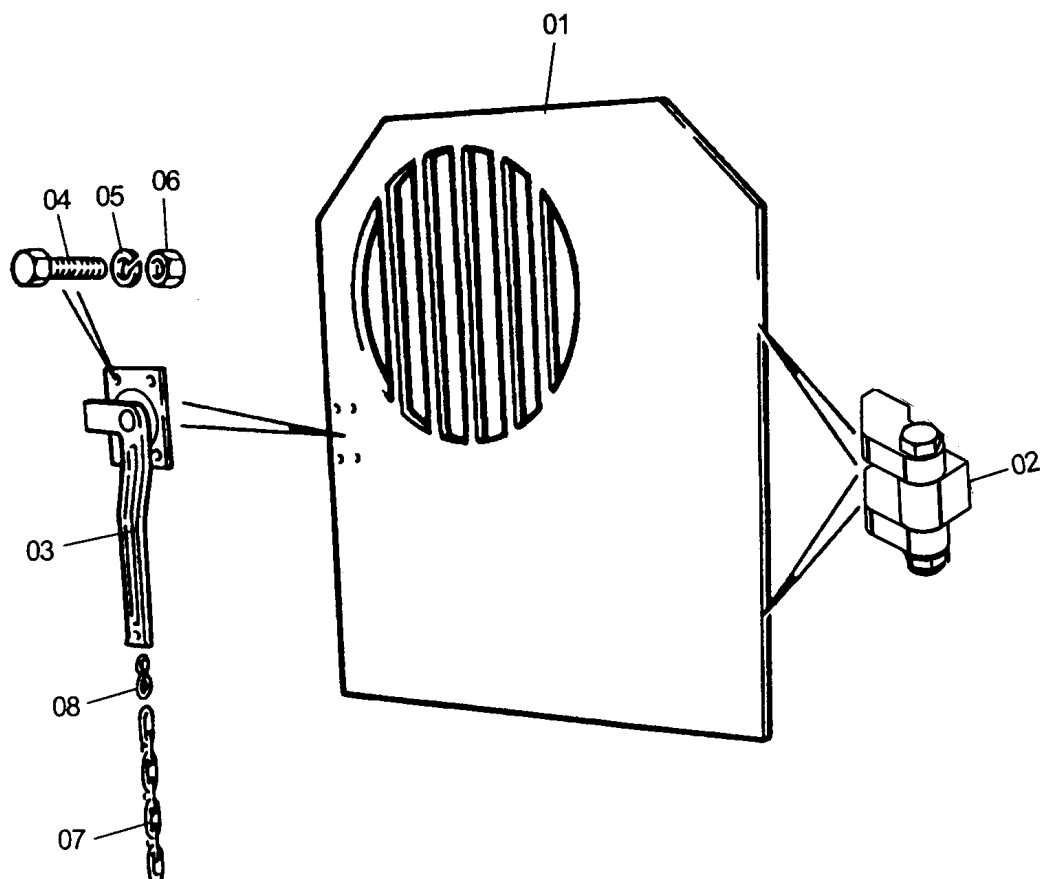
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER REAR FRAME OSCILATING AXLE MOUNTING ASSEMBLY					Pg 013
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1520	00			1	UV-09100347	REAR FRAME OSCILLATING AXLE MOUNTING ASSEMBLY	
	01			1	UV-09100376	RING, Lock	
	02			6	106-M16-35	BOLT, Hex Hd	
	03			6	141-M16	WASHER, Flat	
	04			1	UV-09100374	BUSH	
	05			1	UV-09100375	RING, Lock	
	06			12	104-M16-65	BOLT, Hex Hd	
	07			12	143-M16	WASHER, Spring	
	08			1	UV-09100380	RING, Thrust	
	09			6	106-M6-30	BOLT, Hex Hd	
	10			6	143-M6	WASHER, Spring	
	11			1	UV-09100373	BUSH	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
REAR FRAME GRILL DOOR ASSEMBLY
FOR BF6L913 & BF6L914 AIR COOLED ENGINES

DATE: 12.07.06
REV: TWENTY



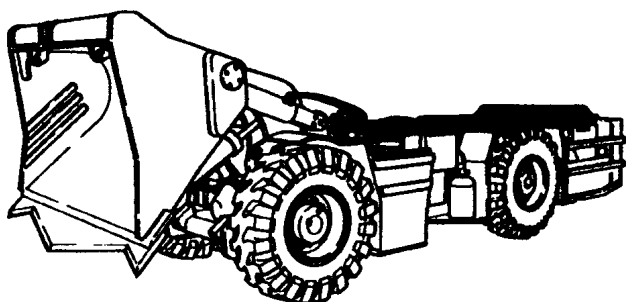
P I
1530 00



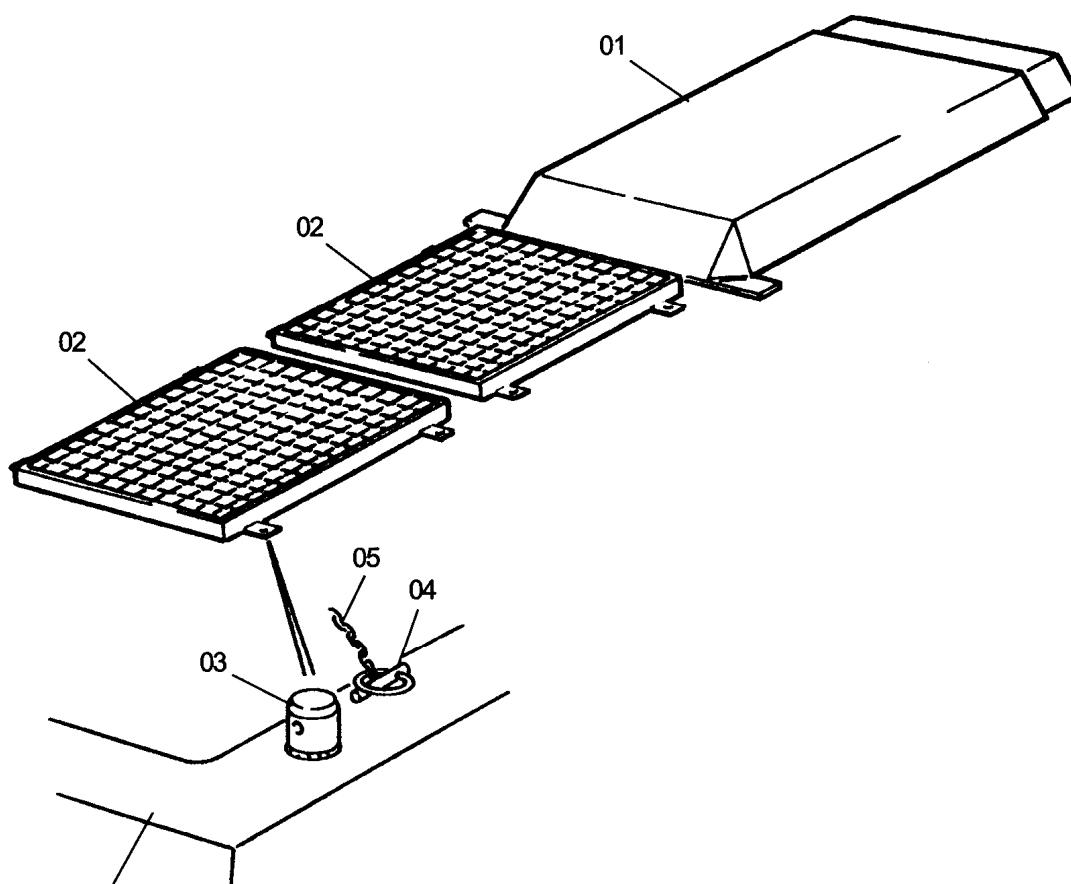
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER REAR FRAME GRILL DOOR ASSEMBLY FOR BF6L913 & BF6L914 AIR COOLED ENGINES					Pg 014
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1530	00			1	9000195A	REAR FRAME GRILL DOOR ASSEMBLY	
	01			1	9000195	DOOR, Grill	
	02			2	9000199	HINGE SET -Welded	
	03			1	UV-09100385	LOCK, Door - Right	
	04			4	106-M8-25	SCREW, Hex Hd	
	05			4	143-M8	WASHER, Spring	
	06			4	120-M8	NUT, Hex	
	07			1	200-EL-4-200	CHAIN - Welded	
	08			1	UV-84800046	S-HOOK	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
REAR FRAME COVERS ASSEMBLY
FOR BF6L913 & BF6L914 AIR COOLED ENGINES**

DATE: 12.07.06
REV: TWENTY



P I
1540 00



Refer to
Page 012

DATE: 17.11.2014
REV: NINETY NINE

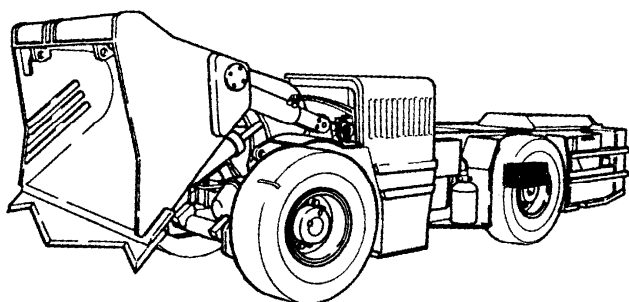
**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
REAR FRAME COVERS ASSEMBLY
FOR BF6L913 & BF6L914 AIR COOLED ENGINES**

Pg 015

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1540	00			1		REAR FRAME COVERS ASSEMBLY	
	01			1	9000252	COVER, Engine	
	02			2	UV-09100357	COVER, Middle/Transmission	
	03			12	UV-09100404	PIN - Welded	
	04			12	UV-84800046	PIN, Lock	
	05			12	200-EL-4-200	CHAIN, 100 lg - Welded	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
REAR FRAME BATTERY BOX ASSEMBLY
FOR BF6L913 & BF6L914 AIR COOLED ENGINES**

DATE: 25.03.2011
REV: FIFTY ONE



P I
1550 00



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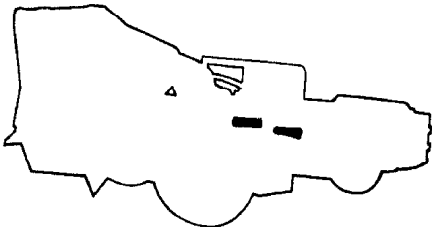
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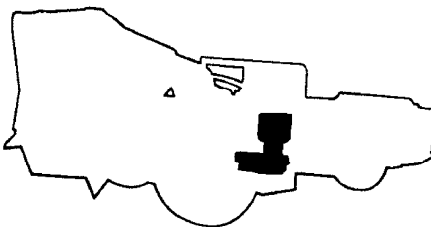
DATE: 25.03.2011 REV: FIFTY ONE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER REAR FRAME BATTERY BOX ASSEMBLY FOR BF6L913 & BF6L914 AIR COOLED ENGINES					Pg 016
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1550	00			1	UV-09100068	MK2 BATTERY BOX ASSEMBLY	
	01			1	UV-09100069	MK2 BATTERY BOX FABRICATION	
	02			2	UV-09100070	BATTERY CLAMP COMPLETE	
	03			2	UV-0100455	BATTERY TYPE 675 12V-120AH	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR STATION ASSEMBLY

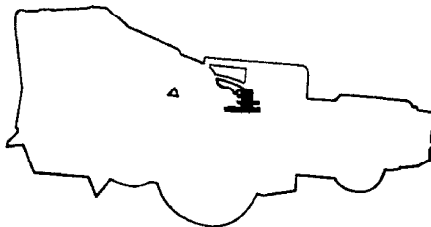
DATE:
REV:



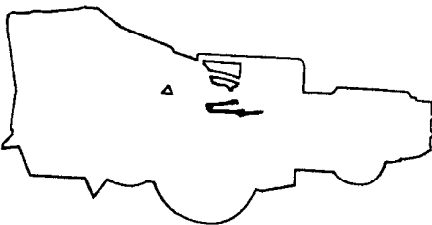
P I
1610 00



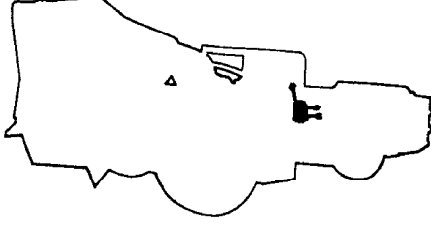
P I
1620 00



P I
1630 00



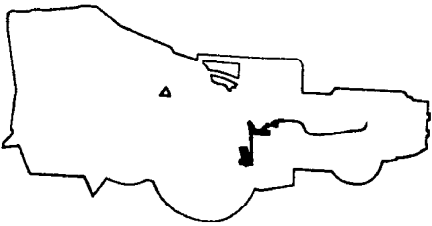
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1640 00



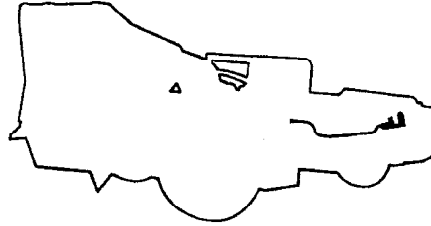
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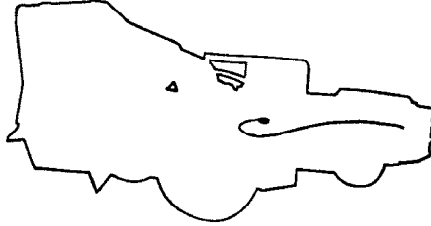
P I
1660 00



P I
1670 00



P I
1680 00

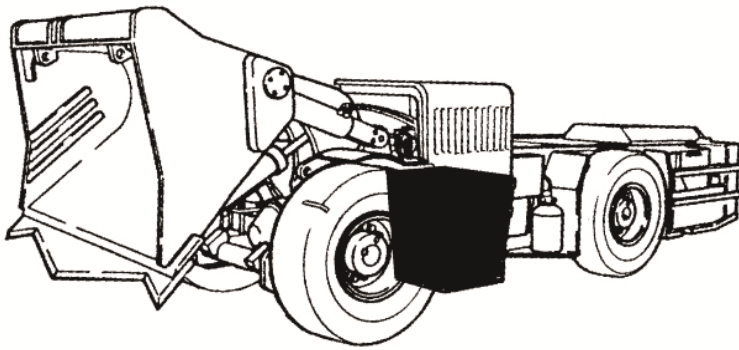


P I
1690 00

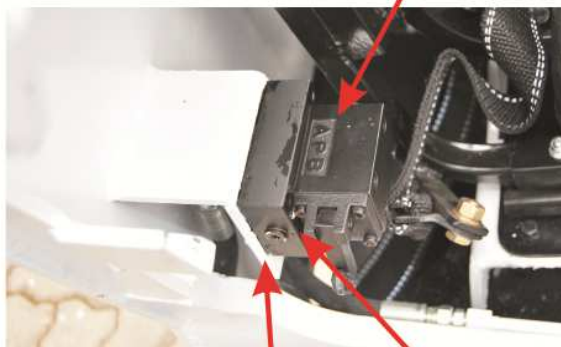
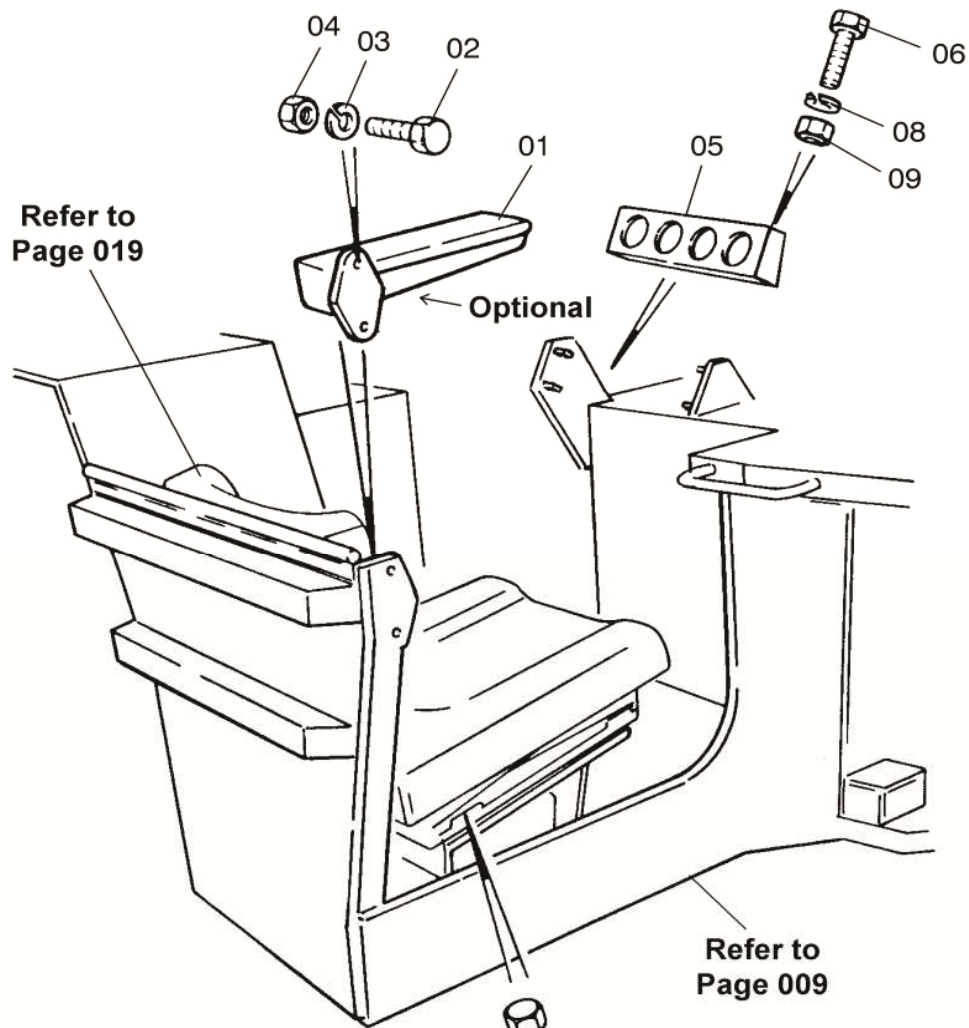
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER OPERATOR STATION ASSEMBLY					Pg 017
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1600	00			1		OPERATOR STATION ASSEMBLY	
1610	00		018	1	UV-09100405	OPERATOR STATION FINAL ASSEMBLY	
1620	00		019	1	UV-81400028	OPERATOR SEAT ASSEMBLY	
1630	00		020	1	UV-09100328	OPERATOR DUMP AND HOIST CONTROL ASSEMBLY	
1640	00		021	1	UV-09100329	OPERATOR STEERING CONTROL ASSEMBLY	
1650	00		022	1	9003212	OPERATOR GEAR SELECTOR CONTROL ASSEMBLY	
1660	00		023	1	UV-09100327	OPERATOR BRAKE CONTROL ASSEMBLY	
1670	00		024	1		OPERATOR ACCELERATOR CONTROL ASSEMBLY - LOAD FRAME END	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR STATION FINAL ASSEMBLY

DATE: 22.11.2010
REV: FORTY
SEVEN



P I
1610 00



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11, 12

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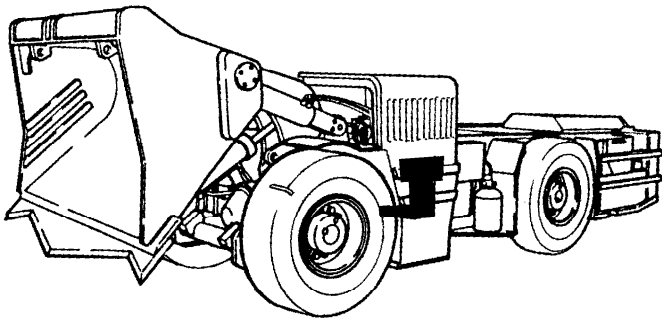
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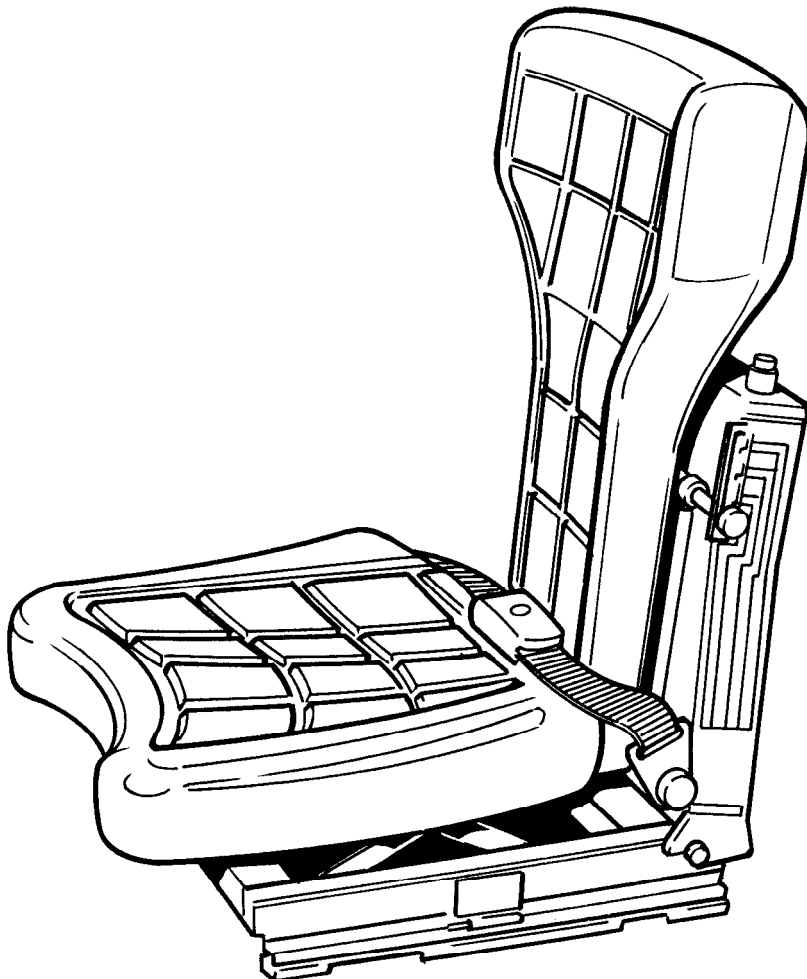
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER OPERATOR STATION FINAL ASSEMBLY					Pg 018
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1610	00			1	UV-09100405	OPERATOR STATION FINAL ASSEMBLY	
	01			1	UV-81400027	REST, Arm	
	02			2	106-M10-20	SCREW, Hex Hd	
	03			2	143-M10	WASHER, Spring	
	04			2	121-M10	NUT, Hex	
	05			1	9001029	PLATE, Gauge	
	06			4	106-M8-20	SCREW, Hex Hd	
	07			4	106-M8-25	SCREW, Hex Hd	
	08			8	143-M8	WASHER, Spring	
	09			8	121-M8	NUT, Hex	
	10			1	UV-09100084K	BRAKE KIT	
	11			4	109-M6-25	SCREW, Hex Socket Head Cap	
	12			4	128-M6	NUT, Hex Nylock	
	13			1	UV-09100084	MOUNTING PLATE, Cam Valve Brake	
	14			1	UV-92300104	VALVE, Dir Cont Cam 4/2 NG6	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR SEAT ASSEMBLY

DATE:
REV:



P I
1620 00



DATE: 01.02.2017
REV: HUNDRED &
TWENTY ONE

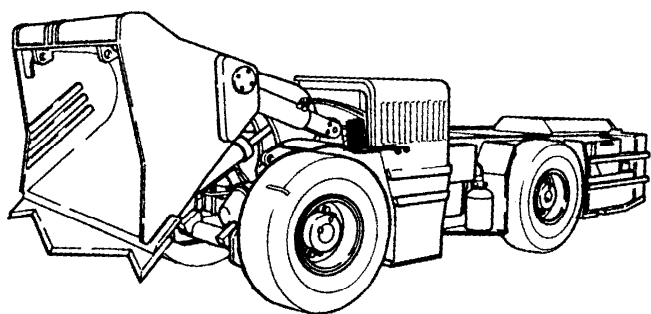
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR SEAT ASSEMBLY

Pg 019

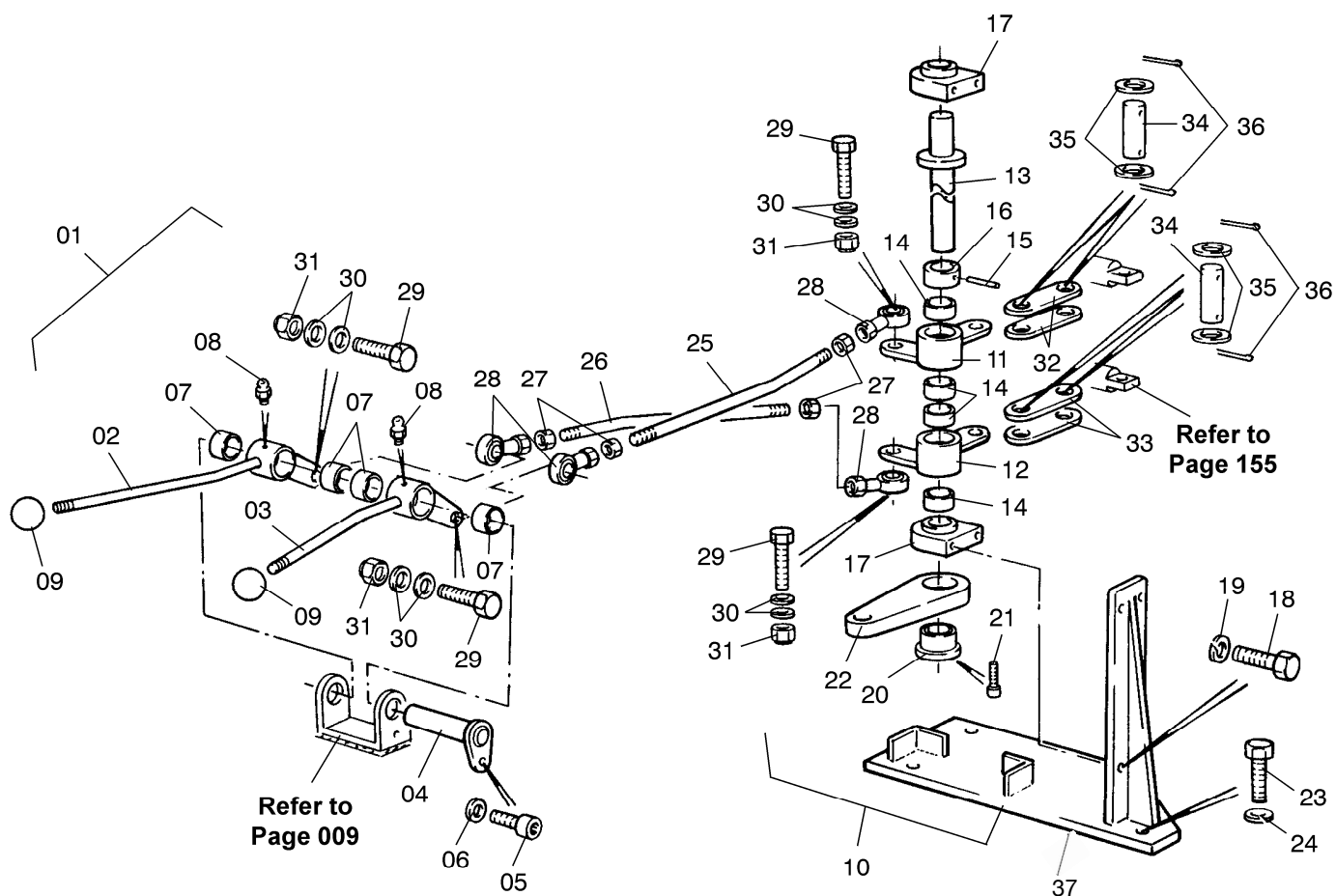
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1620	00			1	UV-81400028	OPERATOR SEAT ASSEMBLY	
						OR	
				1	UV-08001139	SEAT, LOW PROFILE (COMPLETE)	
						Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR DUMP AND HOIST CONTROL ASSEMBLY

DATE: 09.04.2015
REV: HUNDRED
AND TWO



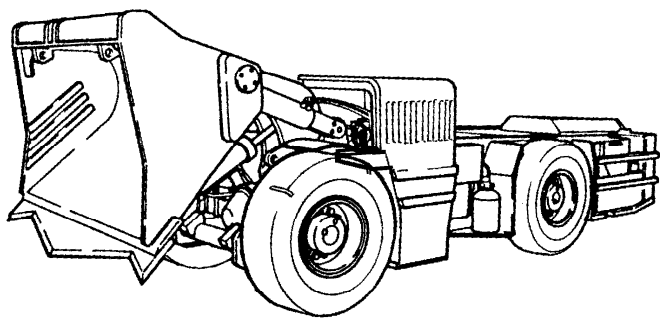
P I
1630 00



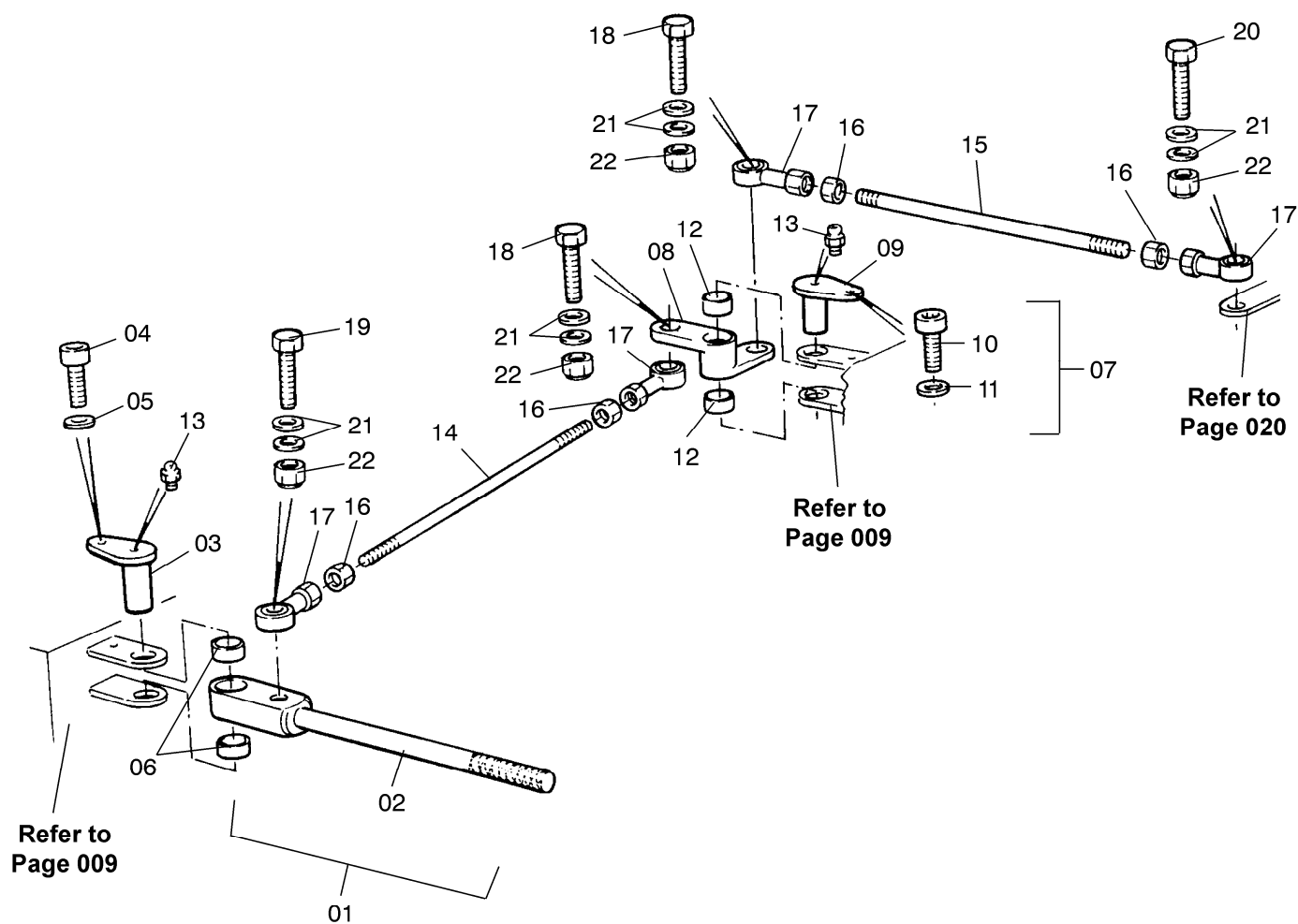
DATE: 09.04.2015 REV: HUNDRED AND FIVE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER OPERATOR DUMP AND HOIST CONTROL ASSEMBLY					Pg 020
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1630	00			1	UV-09100328	OPERATOR DUMP AND HOIST CONTROL ASSEMBLY	
	01			1	UV-09100406	UNIT ASSEMBLY, Handle c/w Items 02 - 08	
	02			1	UV-09100318	HANDLE ASSEMBLY, Boom	
	03			1	UV-09100322	HANDLE ASSEMBLY, Bucket	
	04			1	UV-09100407	PIN, Locking	
	05			1	109-M8-16	SCREW, Cap Soc Hex Hd	
	06			1	143-M8	WASHER, Spring	
	07			4	150-SR20202KH	BEARING, Needle Roller	
	08			2	260-M10	ADAPTOR, Grease Straight, Male	
	09			2	UV-85700001	KNOB	
	10			1	UV-09100346	UNIT ASSEMBLY, Control c/w Items 11 - 24	
	11			1	UV-09100408	LEVER ASSEMBLY, Bucket	
	12			1	UV-09100409	LEVER ASSEMBLY, Boom	
	13			1	UV-09100410	PIN ASSEMBLY, Boom and Bucket	
	14			4	150-SR20202KH	BEARING, Needle Roller	
	15			1	300-M6-30	PIN, Sellock	
	16			1	UV-09100523	SPACER	
	17			2	155-UCPA-204E	BLOCK, Plummer	
	18			4	102-M10-40	BOLT, Hex Hd, M10 x 40 lg	
	19			4	142-M10	WASHER, Spring	
	20			1	UV-09100411	BUSH, Conical Expansion	
	21			9	109-M6-20	SCREW, Cap Soc Hex Hd	
	22			1	UV-09100412	LEVER	
	23			4	104-M12-30	BOLT, Hex Hd	
	24			4	143-M12	WASHER, Spring	
	25			1	UV-09100317	ROD ASSEMBLY, Boom c/w Items 27 - 31	
	26			1	UV-09100317	ROD ASSEMBLY, Bucket c/w Items 27 - 31	
	27			2	121-M10	NUT, Hex	
	28			2	UV-83100004	END, Rod M10F x Ø10	
	29			2	102-M10-40	BOLT, Hex Hd	
	30			4	141-M10	WASHER, Flat	
	31			2	128-M10	NUT, Hex Nyloc	
	32			4	UV-09100323	LEVER, Long	
	33			2	UV-09100324	LEVER, Short	
	34			6	UV-09100332	PIN	
	35			20	141-M10	WASHER, Flat	
	36			12	225-M3,2-40	PIN, Split	
	37			1	UV-09100517	MOUNTING PLATE	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR STEERING CONTROL ASSEMBLY

DATE: 14.02.2012
REV: FIFTY NINE



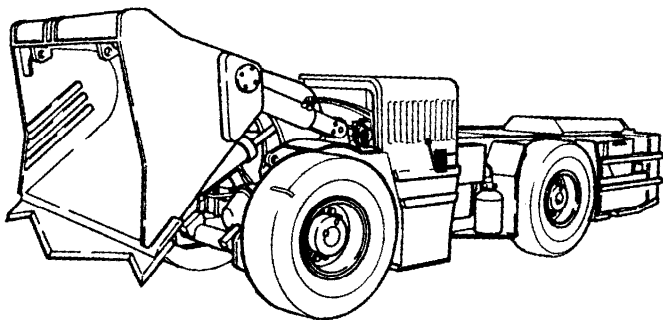
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1640 00



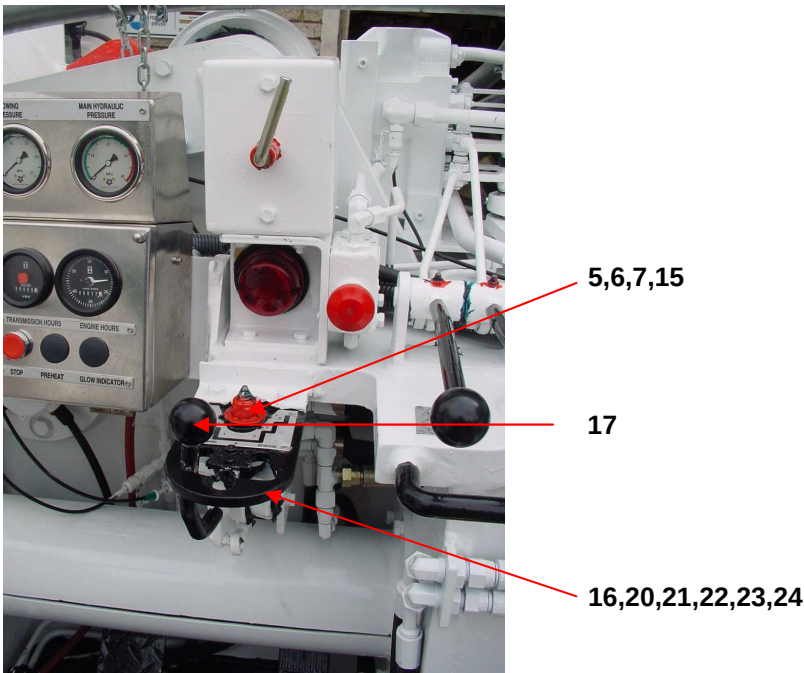
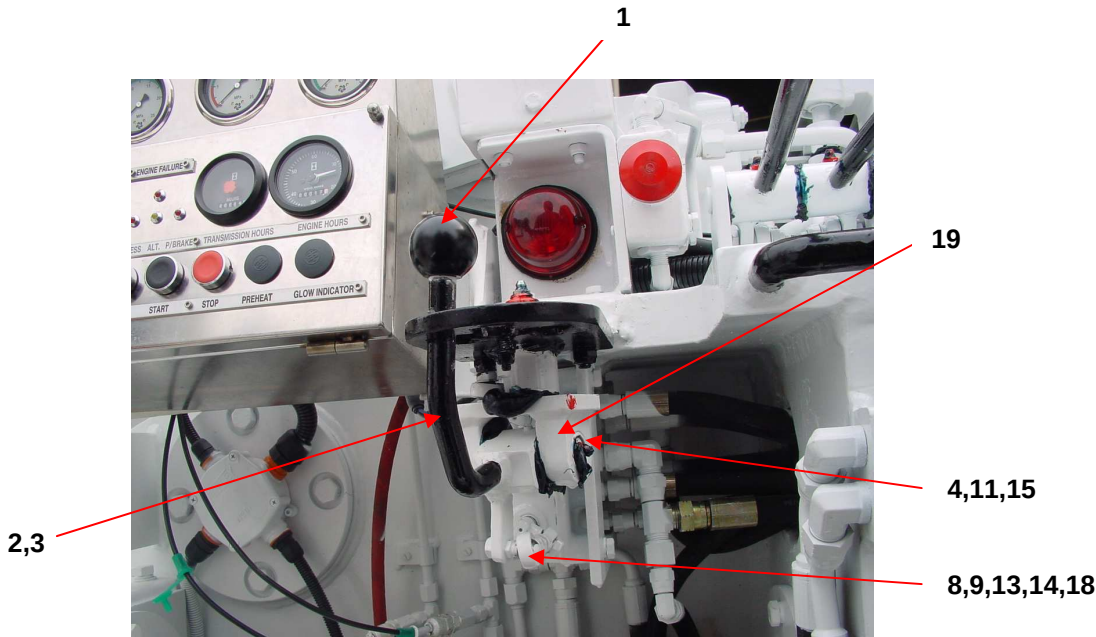
DATE: 09.04.2015 REV: HUNDRED AND FIVE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER OPERATOR STEERING CONTROL ASSEMBLY					Pg 021
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1640	00			1	UV-09100329	OPERATOR STEERING CONTROL ASSEMBLY	
	01			1	UV-09100413	STEERING CONTROL ROD	
	02			1	UV-09100414	ROD, Lever	
	03			1	UV-09100415	PIN, Locking	
	04			1	109-M8-16	SCREW, Cap Soc Hex Hd	
	05			1	143-M8	WASHER, Spring	
	06			2	150-SR20202KH	BEARING, Needle Roller	
	07			1	UV-09100416	RELAY UNIT ASSEMBLY	
	08			1	UV-09100417	LEVER, Relay	
	09			1	UV-09100415	LOCKING UNIT	
	10			1	109-M8-16	SCREW, Cap Soc Hex Hd	
	11			1	143-M8	WASHER, Spring	
	12			2	150-SR20202KH	BEARING, Needle Roller	
	13			2	260-M10	ADAPTOR, Grease Straight, Male	
	14			1	UV-09100418	ROD, 330 lg	
	15			1	UV-09100419	ROD, 802 lg	
	16			2	121-M10	NUT, Hex	
	17			2	UV-83100004	END, Rod M10F x Ø10	
	18			2	102-M10-40	BOLT, Hex Hd	
	19			1	102-M10-75	BOLT, Hex Hd	
	20			1	102-M10-50	BOLT, Hex Hd	
	21			4	141-M10	WASHER, Flat	
	22			2	128-M10	NUT, Hex Nyloc	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR GEAR SELECTOR CONTROL ASSEMBLY

DATE: 04.10.05
REV: FIFTEEN



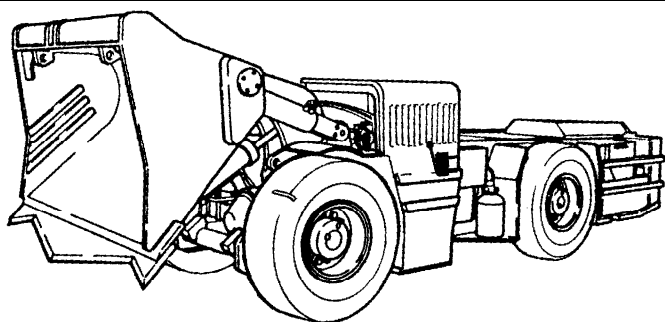
P I
1650 00

A black triangle pointing downwards, likely a reference symbol for a specific part or assembly.

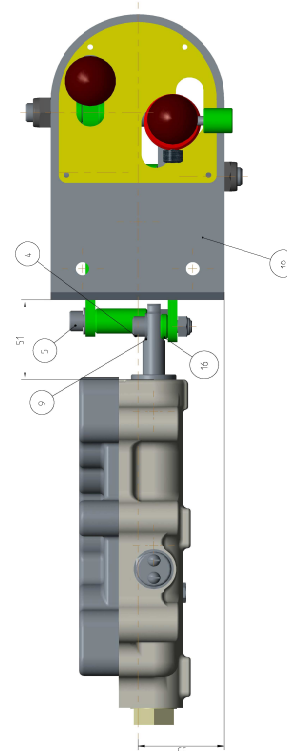
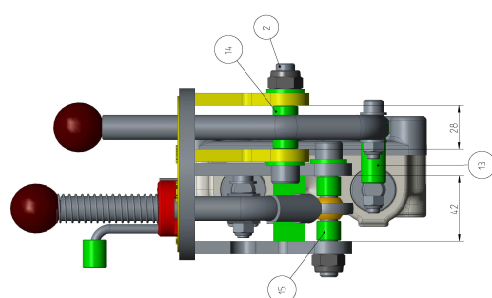
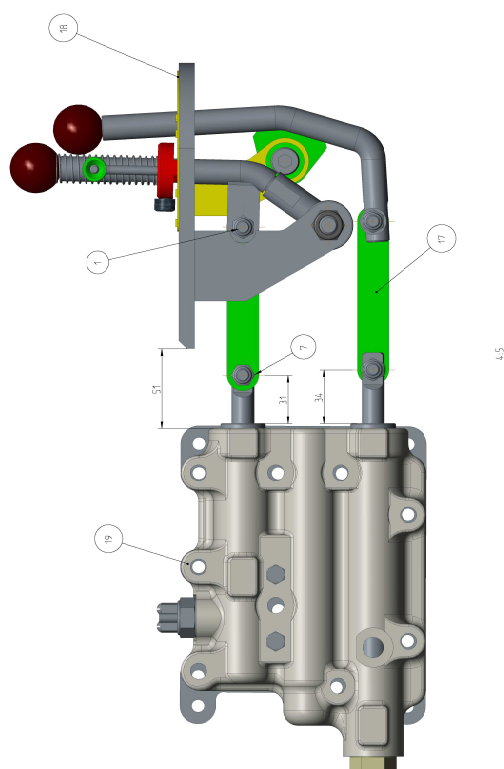
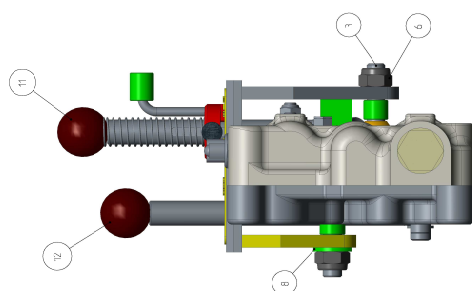
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER OPERATOR GEAR SELECTOR CONTROL ASSEMBLY					Pg 022
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1650	00			1	9003212	OPERATOR GEAR SELECTOR CONTROL ASSEMBLY	
	01			1	UV-85700001	KNOB	
	02			-	-	-	
	03			1	300-M6-40	PIN, Sellock	
	04			1	UV-09100420	PIN ASSEMBLY, Gear Selector	
	05			1	152-M16	NUT, Hex Nyloc	
	06			1	UV-09100421	WASHER	
	07			4	150-SR20202KH	BEARING, Needle	
	08			4	120-M8	NUT, Hex	
	09			2	UV-83100002	JOINT, Angle	
	10			2	UV-83100003	END, Rod	
	11			2	UV-09100422	SPACER	
	12			2	109-M8-40	BOLT, Hex Hd	
	13			3	141-M8	WASHER, Flat	
	14			3	128-M8	NUT, Hex Nyloc	
	15			3	260-M10	ADAPTOR, Grease Straight, Male	
	16			1	9003213	TOP PLATE ASSEMBLY	
	17			1	9003286	GEAR SELECTOR LABEL	
	18			2	9003334	ROD	
	19			1	9003333	BRACKET ASSEMBLY, Gear Selector	
	20			1	9003215	SPRING	
	21			1	102-M6-10	BOLT, Hex Hd.	
	22			2	128-M6	NYLOC WASHER	
	23			2	141-M6	WASHER	
	24			1	102-M6-20	BOLT, Hex Hd.	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
GEAR SELECTOR MECHANICAL ASSEMBLY

DATE: 06.07.2016
REV: HUNDRED
& NINETEEN



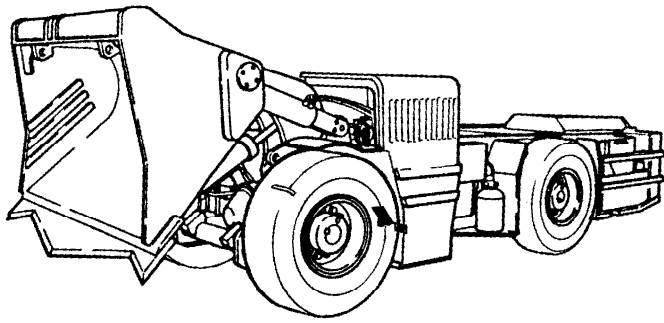
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1650 00



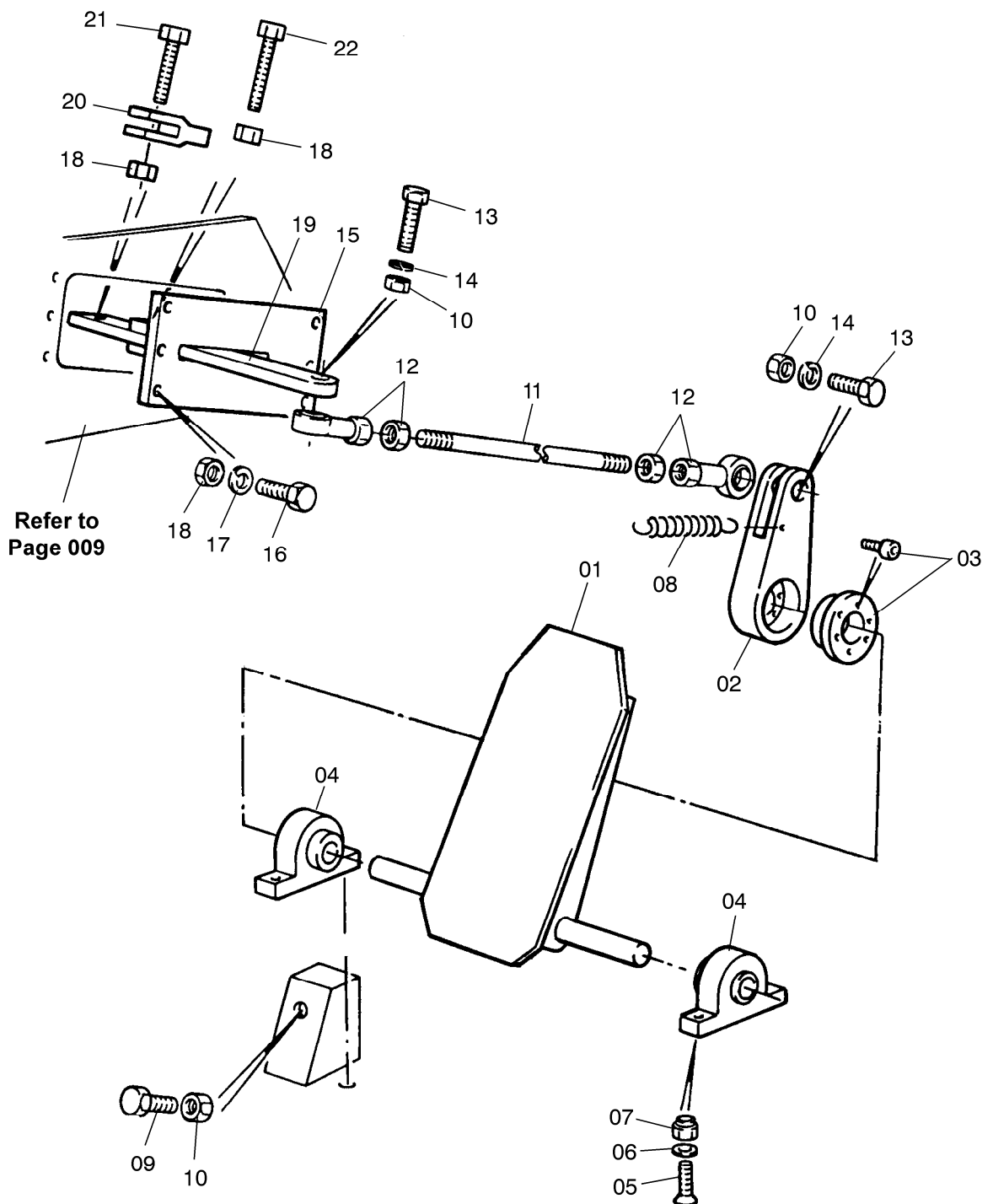
DATE: 06.07.2016 REV: HUNDRED & NINETEEN		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER GEAR SELECTOR MECHANICAL ASSEMBLY					Pg 022A
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1650	00			1	UV-09100527-02	GEAR SELECTOR MECHANICAL ASSEMBLY	
	01			1	107-M8-30	SCREW, Counter Sunk, Hd Cap	
	02			1	109-M12-65	CAP SCREW, M12 x 65 lg	
	03			1	109-M12-75	CAP SCREW, M12 x 75 lg	
	04			2	109-M8-30	SCREW, Cap Soc Hex Hd M8 x 30 lg	
	05			1	109-M8-60	CAP SCREW, M8 x 60 lg	
	06			2	128-M12	NUT, Nylock	
	07			4	128-M8	NUT, Nylock	
	08			3	141-M12	WASHER, Flat M12	
	09			4	141-M8	WASHER, Flat Bright	
	10			1	UV-09100528-01	TOP PLATE ASSEMBLY	
	11			1	UV-09100528-05	HANDLE ASSEMBLY, Forward & Reverse	
	12			1	UV-09100528-06	HANDLE ASSEMBLY, 1 st and 2 nd	
	13			1	UV-09100528-07	SPACER, No. 1	
	14			2	UV-09100528-12	SPACER, No. 3	
	15			2	UV-09100528-17	SPACER, No. 2	
	16			1	UV-09100528-18	SPACER, No. 4	
	17			1	UV-09100529	LINKAGE, Gear Selector LHD5.5	
	18			1	UV-81300277	LABEL, Gear Selector, New Type	
	19			1	UV-853237875FS	VALVE, Gear Selector	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR BRAKE CONTROL ASSEMBLY

DATE:
REV:



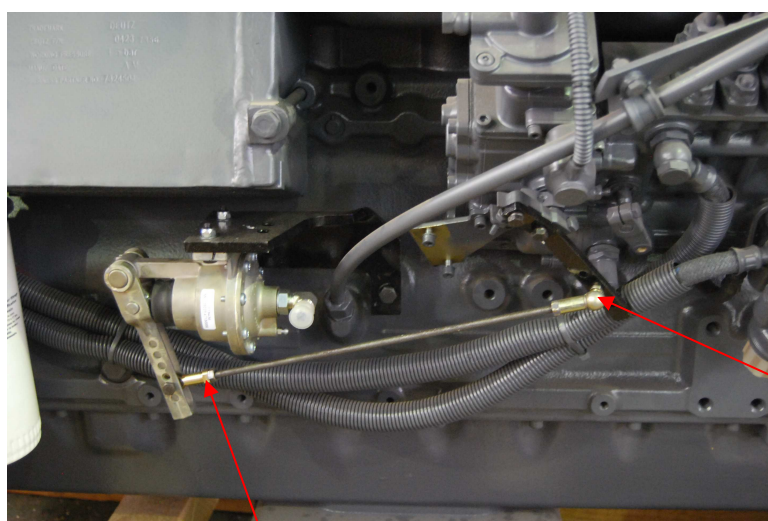
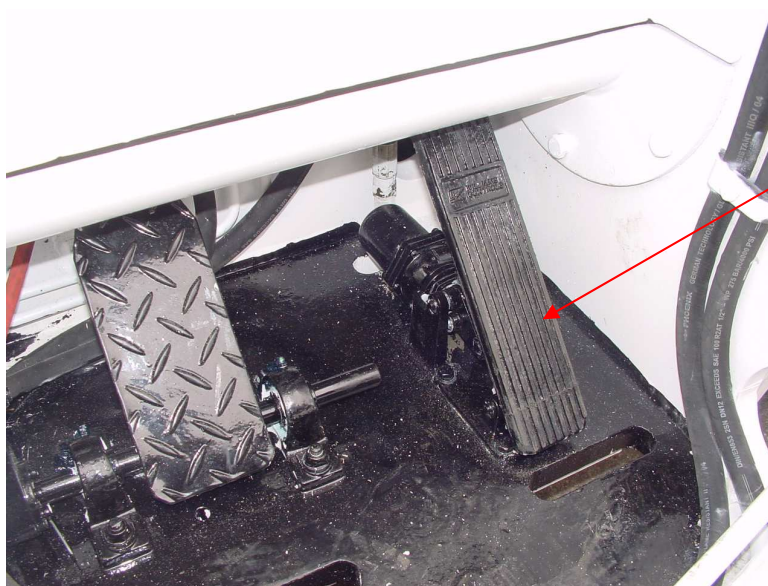
P I
1660 00



DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER OPERATOR BRAKE CONTROL ASSEMBLY					Pg 023
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1660	00			1	UV-09100327	OPERATOR BRAKE CONTROL ASSEMBLY	
	01			1	UV-09100330	PEDAL ASSEMBLY, Brake	
	02			1	UV-09100423	LEVER	
	03			1	UV-09100411	BUSH, Conical Expansion	
	04			2	155-UCP-204-20	BLOCK, Plummer	
	05			4	109-M10-50	SCREW, Csk Soc Hex Hd	
	06			4	141-M10	WASHER, Flat	
	07			4	128-M10	NUT, Hex Nyloc	
	08			2	UV-82103303437	SPRING, Deutz, 03303437	
	09			1	106-M12-50	SCREW, Hex Hd	
	10			3	121-M12	NUT, Hex	
	11			1	UV-09100424	ROD, Link	
	12			2	UV-87400024	END, Rod	
	13			2	102-M12-45	BOLT, Hex Hd	
	14			2	143-M12	WASHER, Spring	
	15			1	UV-09100425	BRACKET, Support	
	16			6	105-M10-30	BOLT, Hex Hd	
	17			6	141-M10	WASHER, Flat	
	18			8	128-M10	NUT, Hex Nyloc	
	19			1	UV-09100426	LEVER, Operating	
	20			1	UV-09100427	CLEVIS, Rod	
	21			1	102-M10-45	BOLT, Hex Hd, M10 x 45 lg	
	22			1	106-M10-35	BOLT, Hex Hd	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR ACCELERATOR CONTROL ASSEMBLY –
LOAD FRAME END**

DATE: 08.09.2014
REV: NINETY SIX



04

DATE: 07.04.2015
REV: HUNDRED
AND FOUR

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR ACCELERATOR CONTROL ASSEMBLY –
LOAD FRAME END

Pg 024

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	05
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1670	00			1		OPERATOR ACCELERATOR CONTROL ASSEMBLY - LOAD FRAME END	
	01			1	UV-87900002	PEDAL, Hydraulic Accelerator	
	02			1	UV-92300050	CYLINDER, Hydraulic	
	03			1	UV-87400014	ROD END, Straight M6	
	04			1	UV-0100388	BALL JOINT, 90° M6	
	05			1	UV-89800217	THREAD BAR, M6 x 300 lg	
	06			2	212-M6	NUT, Hex Head M6	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER

DATE: 04.10.05
REV: FIFTEEN

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DATE: 04.10.05
REV: FIFTEEN

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER

Pg 025

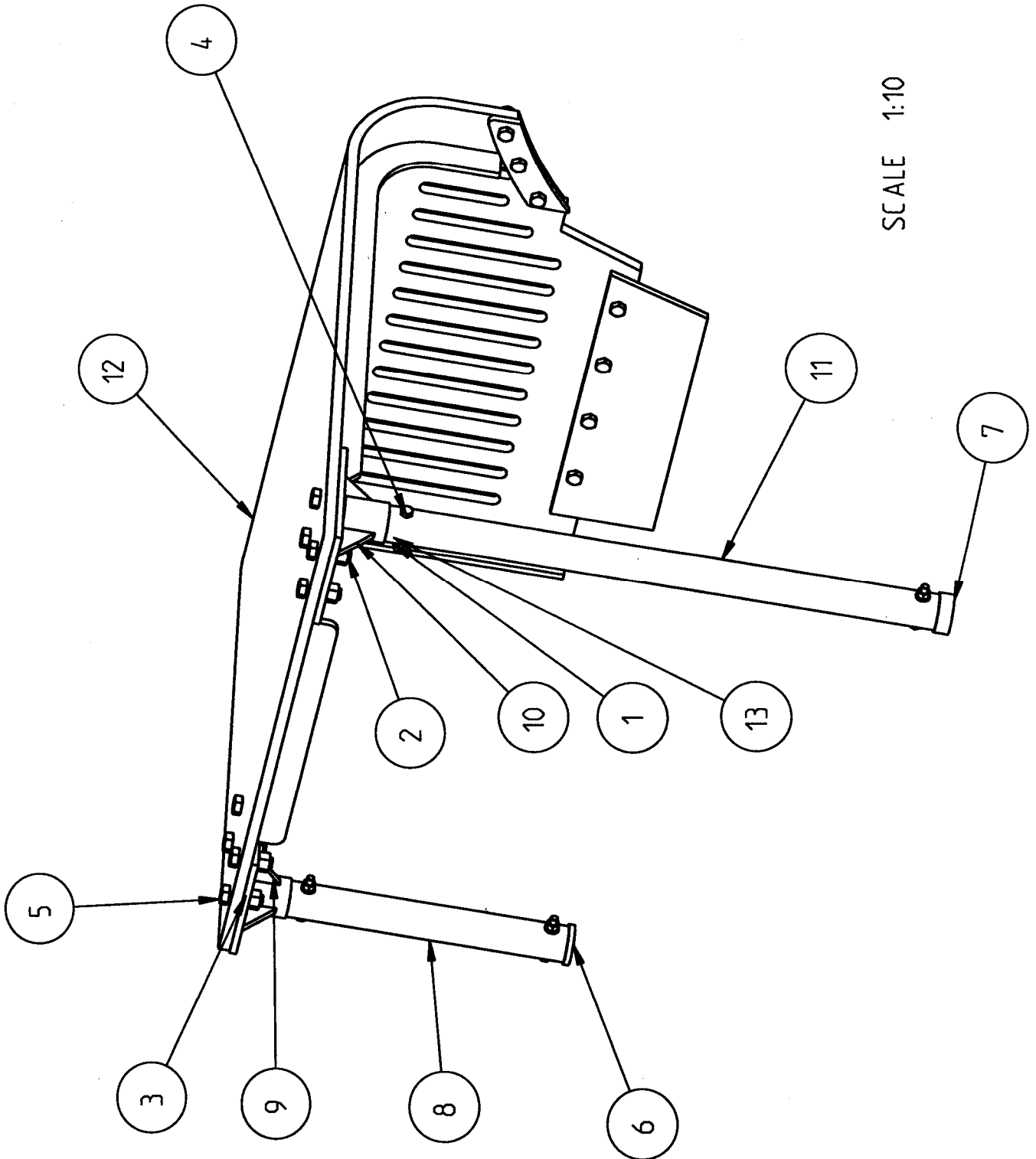
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
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AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR CANOPY ASSEMBLY - OPTIONAL

DATE: 01.08.06
REV: TWENTYONE

SCALE 1:10



DATE: 01.08.06
REV: TWENTYONE

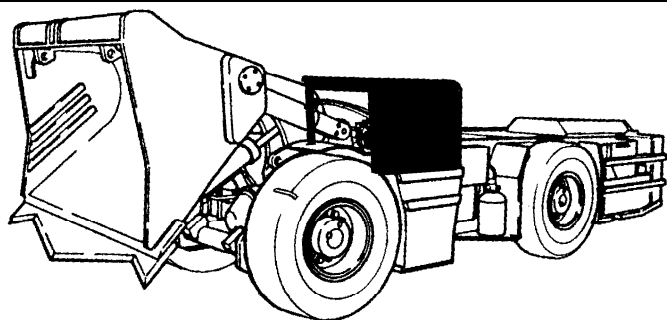
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR CANOPY ASSEMBLY - OPTIONAL

Pg 026

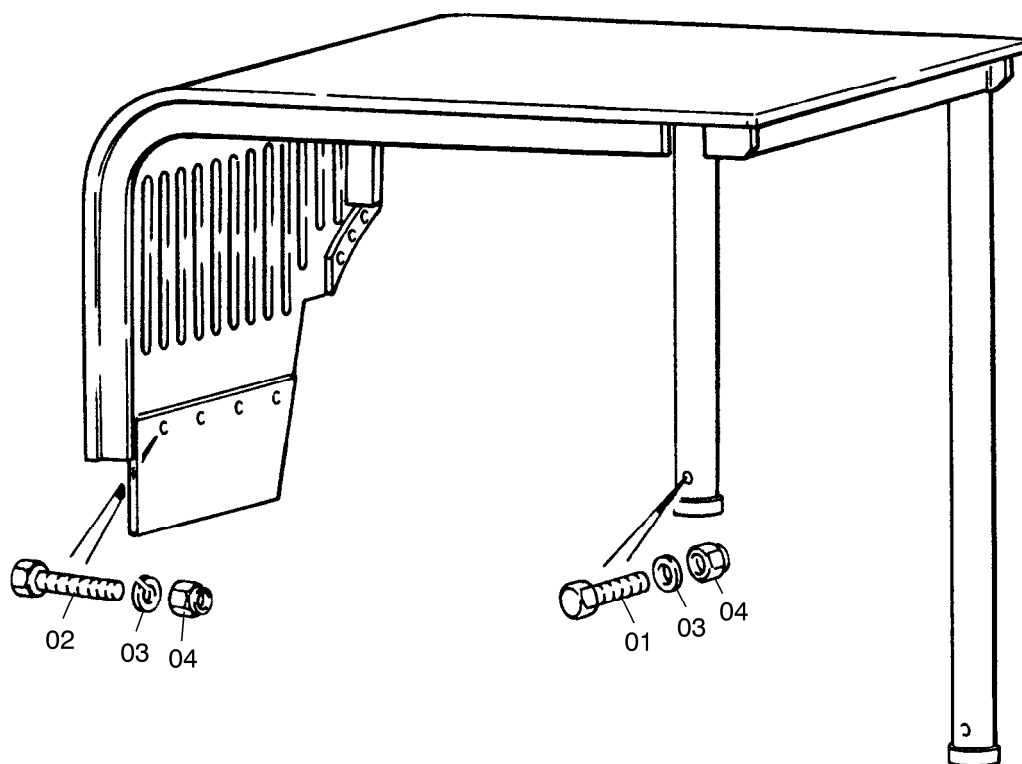
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1700	00			1	UV-09100051	CANOPY ASSEMBLY BOLT-ON TYPE	
	01			4	121-M12	HEX NUT, M12 x 1.75	
	02			8	121-M20	HEX NUT, M20 x 2.5	
	03			8	141-M20	WASHER	
	04			4	102-M12-90	SET SCREW	
	05			8	102-M20-50	HEX HT BOLT M20	
	06			1	UV-09100057	RIGHT BOTTOM PIN - SHORT	
	07			1	UV-09100054	LEFT BOTTOM PIN - LONG	
	08			1	UV-09100055	RIGHT DISTANCE TUBE - SHORT	
	09			1	UV-09100056	TOP RIGHT BRACKET - SHORT	
	10			1	UV-09100053	TOP LEFT BRACKET - LONG	
	11			1	UV-09100052	LEFT DISTANCE TUBE - LONG	
	12			1	UV-09100058	CANOPY ASSEMBLY - ANGLO TYPE	
	13			4	141-M12	WASHER	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR CANOPY ASSEMBLY

DATE: 02.08.2013
REV: EIGHTY ONE



P I
1700 00



DATE: 02.08.2013
REV: EIGHTY ONE

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
OPERATOR CANOPY ASSEMBLY

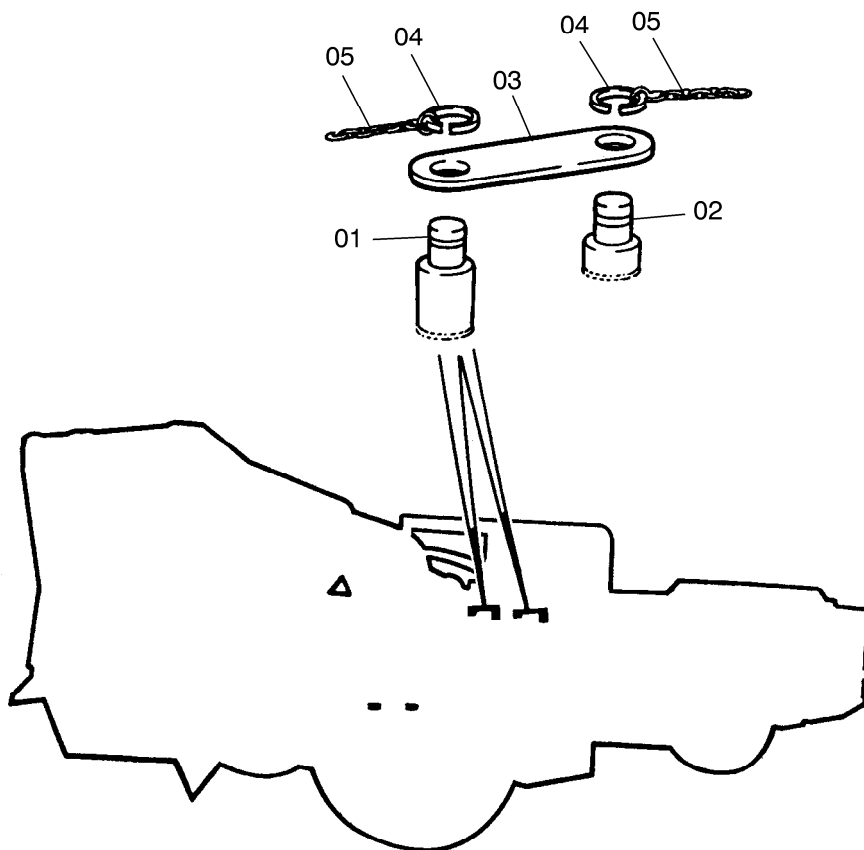
Pg 027

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1700	00			1	9000220	OPERATOR CANOPY ASSEMBLY, 1574 mm	
	01			2	102-M12-80	BOLT, Hex Hd, M12 x 80 lg	
	02			8	102-M12-45	BOLT, Hex Hd, M12 x 45 lg	
	03			10	143-M12	WASHER, Spring, Dia. 12	
	04			10	128-M12	NUT, Hex Nyloc, M12	
					<u>OPTION</u>		
				1	9000220L	CANOPY ASSEMBLY, 1474 mm	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSPORT SAFETY LOCK ASSEMBLY

DATE:
REV:

P I
1800 00

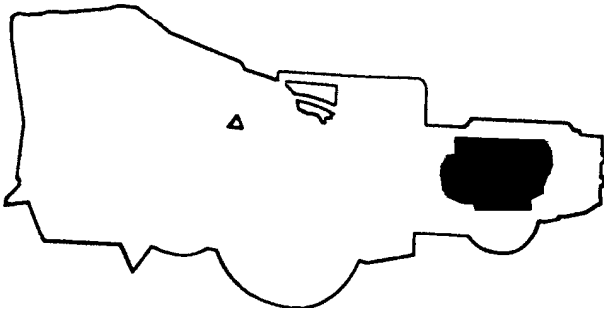


DATE: 17.11.2014 REV: NINETY NINE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TRANSPORT SAFETY LOCK ASSEMBLY				Pg 028
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1800	00			1	UV-09100428	TRANSPORT SAFETY LOCK ASSEMBLY	
	01			2	UV-09100369	PIN - Welded	
	02			4	UV-09100370	PIN - Welded	
	03			1	UV-09100429	PLATE, Locking	
	04			2	UV-84800046	CLIP, Locking Plate	
	05			2	200-EL-4-200	CHAIN - Welded	

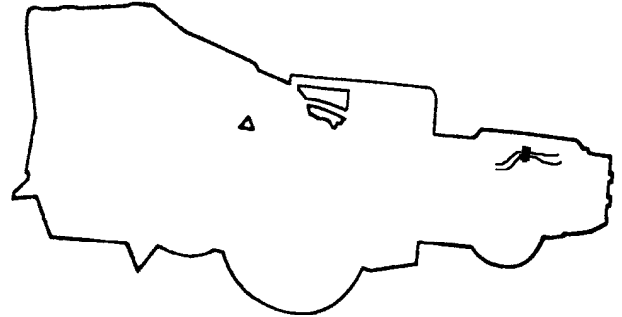
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FOR FUTURE USE**

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ENGINE GROUP

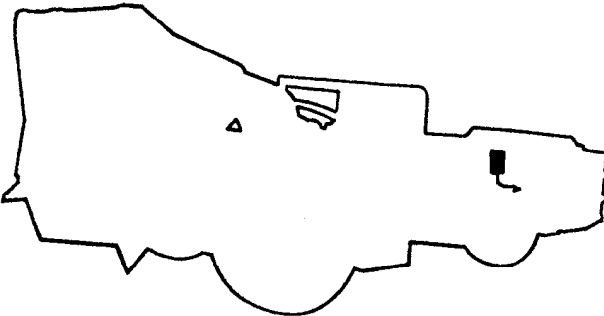
DATE: 12.09.05
REV: THIRTEEN



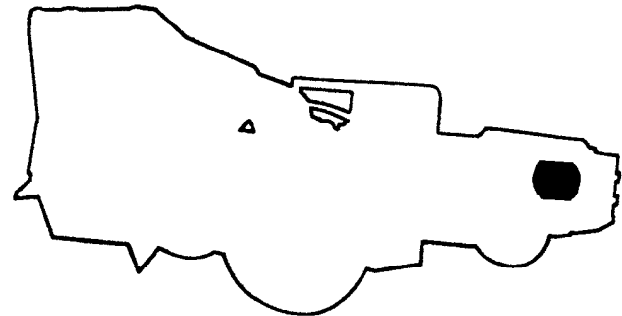
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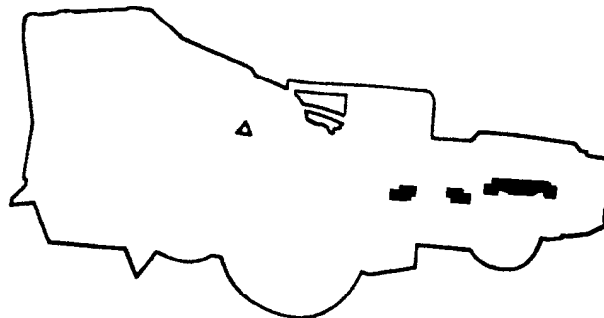
P I
2200 00



P I
2300 00



P I
2400 00

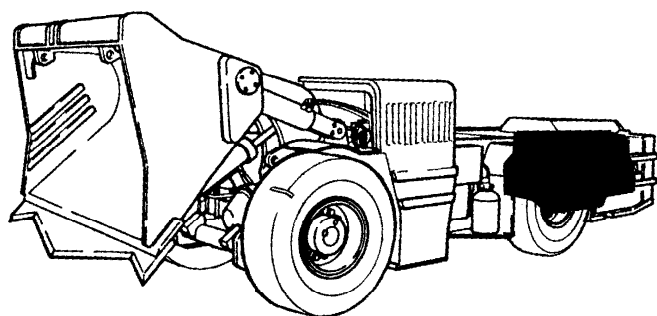


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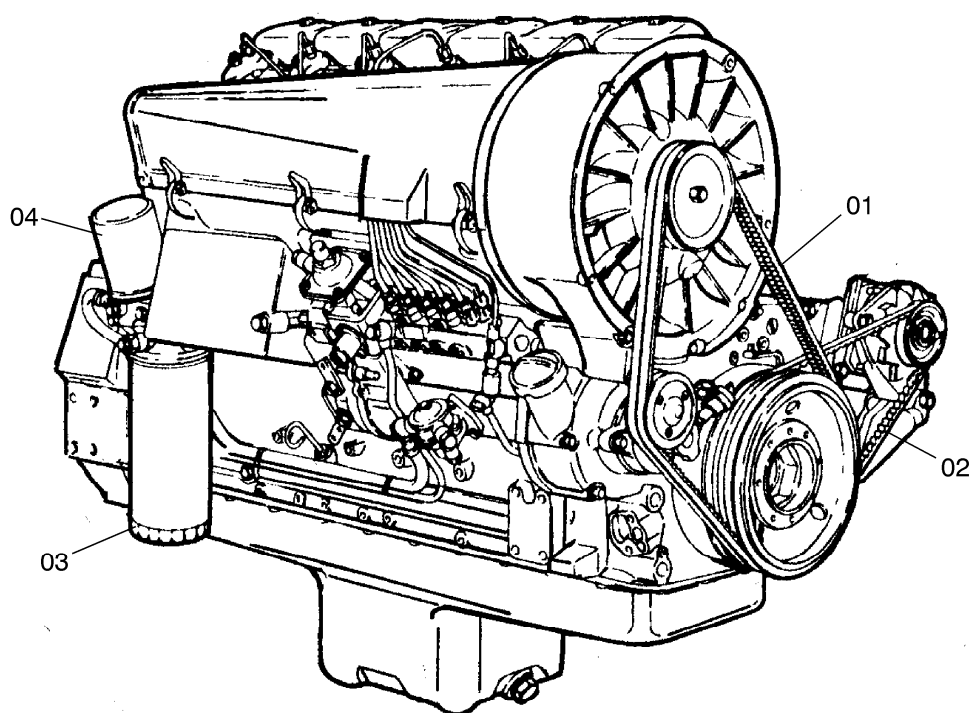
DATE: 12.07.06 REV: HUNDRED & TWENTY ONE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER ENGINE GROUP					Pg 041
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
2000	00			1		ENGINE GROUP	
2100	00		042	1	9001647	ENGINE ASSEMBLY - BF6L914 AIR COOLED	
2100	00		042A	1	UV-82000036	ENGINE ASSEMBLY - BF6L913 AIR COOLED	
2200	00		043	1	9003236	ENGINE PROTECTION SYSTEM ASSEMBLY	
2300	00		044	1		ENGINE TURBO CHARGER PROTECTION SYSTEM ASSEMBLY - BF6L913 AIR COOLED	
2400	00		045	1		ENGINE AIR INTAKE SHROUD ASSEMBLY	
2500	00		046	1		ENGINE MOUNTING ASSEMBLY	
					UV-82000054	ENGINE, BF6L914 EMR	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ENGINE ASSEMBLY - DEUTZ ENGINE

DATE: 12.09.05
REV: THIRTEEN



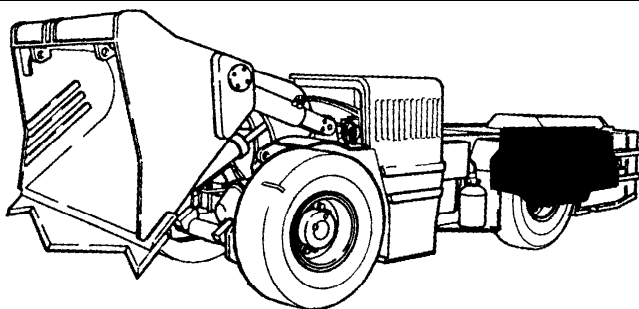
P I
2100 00



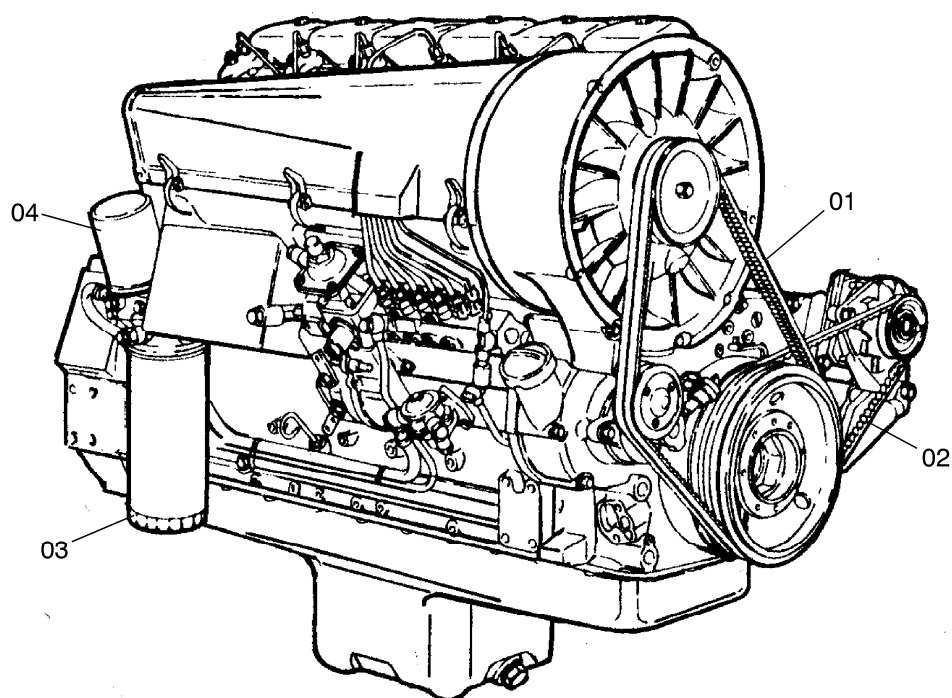
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER ENGINE ASSEMBLY – DEUTZ ENGINE					Pg 042
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
2100	00			1	9001647	ENGINE ASSEMBLY - BF6L914 AIR COOLED	
	01			2	9000322	V-BELT, Blower Fan	
	02			1	UV-82102235181	V-BELT, Alternator	
	03			1	UV-82100207	ELEMENT, Filter - Oil	
	04			1	UV-82100203	ELEMENT, Filter – Fuel	
						Note: For parts breakdown see Deutz manual	

AARD MINING EQUIPMENT
AARDMAJOR Mk2 LOAD HAUL DUMPER
ENGINE ASSEMBLY - BF6L913 AIR COOLED

DATE: 12.07.06
REV: TWENTY



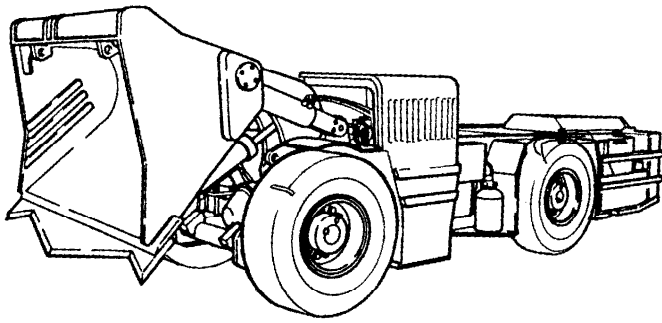
P I
2100 00



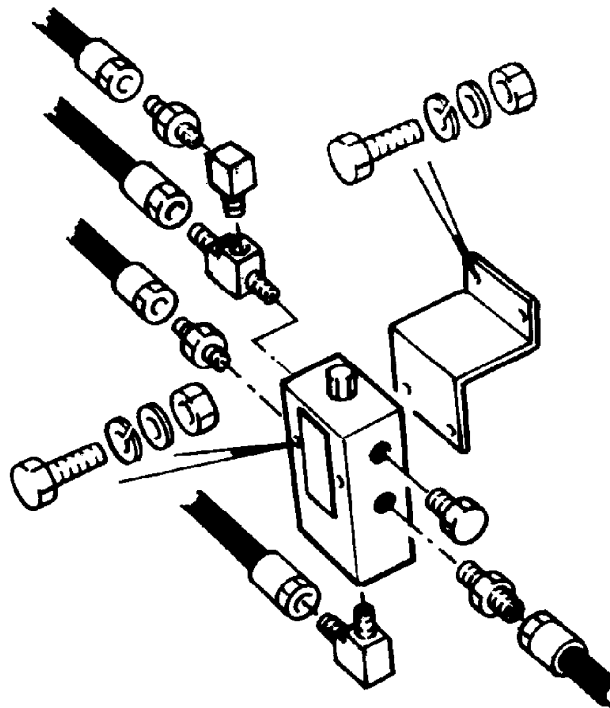
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARDMAJOR Mk2 LOAD HAUL DUMPER ENGINE ASSEMBLY – BF6L913 AIR COOLED					Pg 042A
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
2100	00			1	UV-82000036	ENGINE ASSEMBLY - BF6L913 AIR COOLED V-BELT, Blower Fan V-BELT, Alternator ELEMENT, Filter - Oil ELEMENT, Filter – Fuel Note: For parts breakdown see Deutz manual	
	01			2	9000322		
	02			1	UV-82102235181		
	03			1	UV-82100207		
	04			1	UV-82100203		

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ENGINE PROTECTION SYSTEM ASSEMBLY

DATE:
REV:



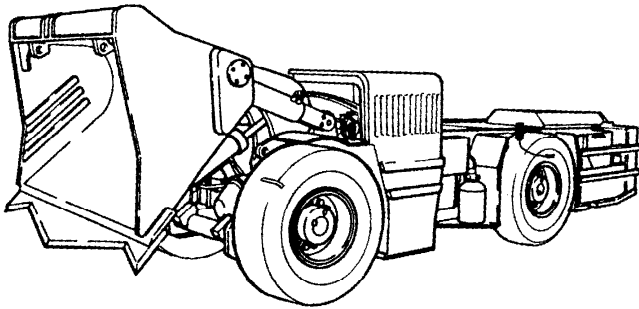
P I
2200 00



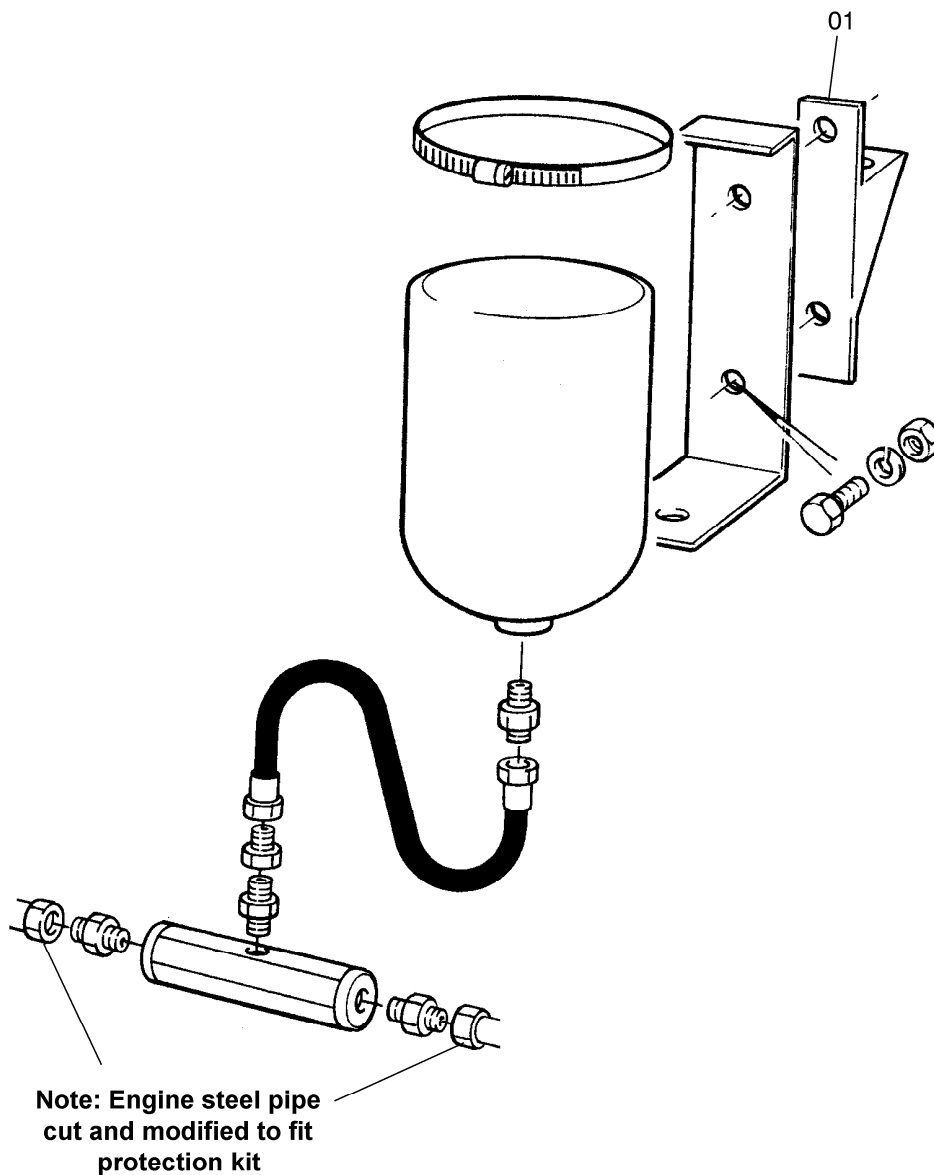
DATE: 01.06.2016 REV: HUNDRED AND SEVENTEEN			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER ENGINE PROTECTION SYSTEM ASSEMBLY				Pg 043
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
2200	00			1	9003236	ENGINE PROTECTION SYSTEM ASSEMBLY <u>SPARES:</u> VALVE, Fuel Control 670 – 8 CAM VALVE, Heat 960 – 365, 185° VALVE, Heat 960 – 265, 135° Note: Supplied as a unit	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ENGINE TURBO CHARGER PROTECTION SYSTEM
ASSEMBLY FOR BF6L913 & BF6L914 AIR COOLED**

DATE: 12.07.06
REV: TWENTY



P I
2300 00



DATE: 12.07.06
REV: TWENTY

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ENGINE TURBO CHARGER PROTECTION SYSTEM
ASSEMBLY FOR BF6L913 & BF6L914 AIR COOLED

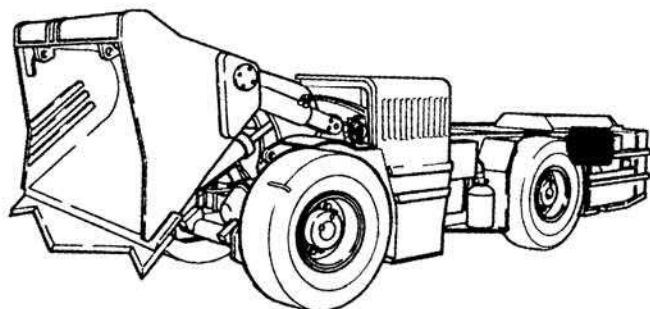
Pg 044

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
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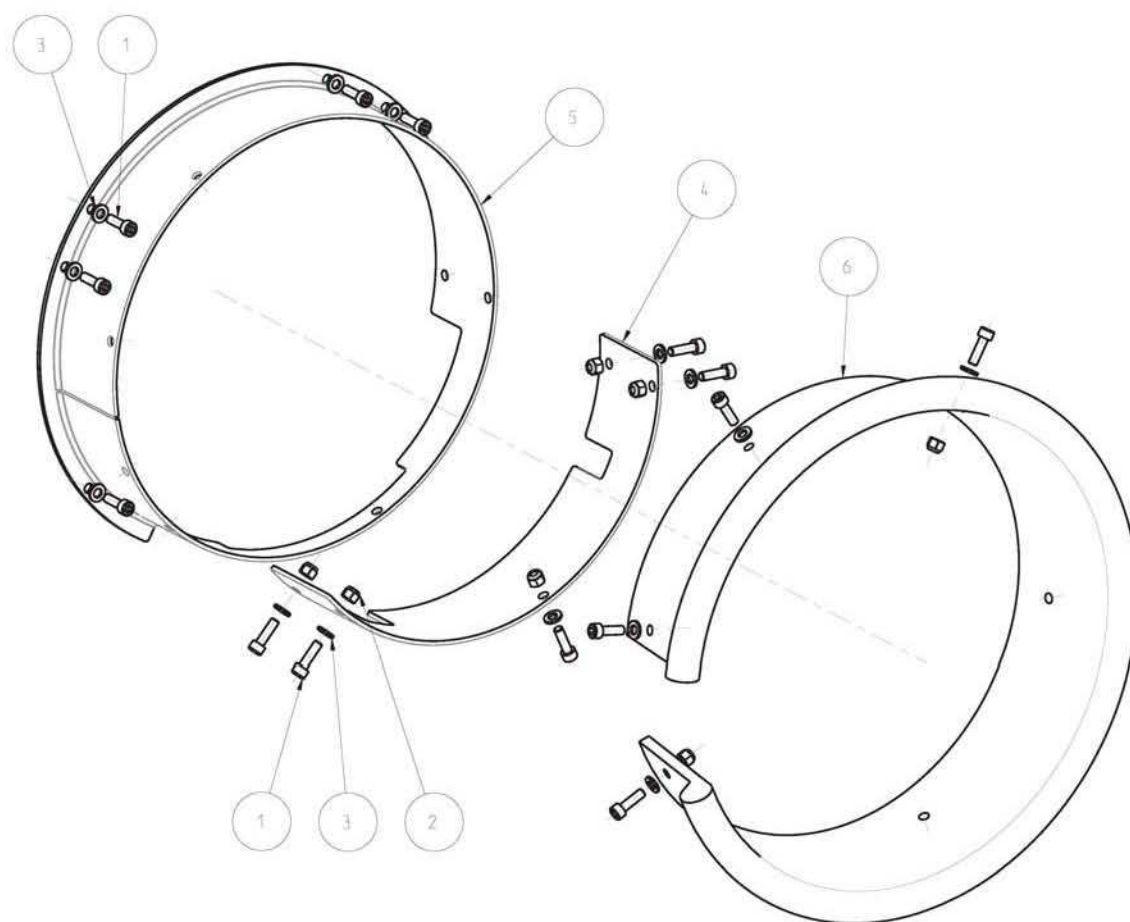
2500	00			1	UV-82100221	ENGINE TURBO CHARGER PROTECTION SYSTEM ASSEMBLY	
	01			1	UV-09100038	BRACKET, Mounting	
						Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ENGINE AIR INTAKE SHROUD ASSEMBLY
FOR BF6L913 & BF6L914 AIR COOLED

DATE: 16.02.2015
REV: HUNDRED
AND TWO



P I
2400 00



DATE: 16.02.2015
REV: HUNDRED
AND TWO

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ENGINE AIR INTAKE SHROUD ASSEMBLY
FOR BF6L913 & BF6L914 AIR COOLED

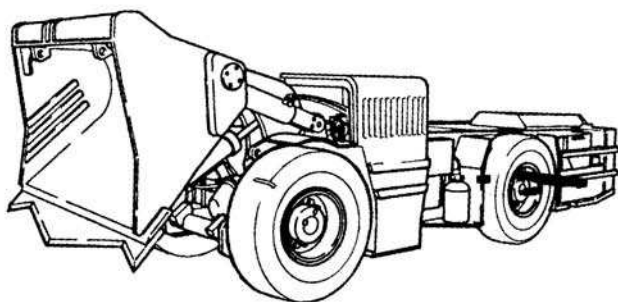
Pg 045

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
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2200	00			1		ENGINE AIR INTAKE SHROUD ASSEMBLY	
	01			16	109-M6-20	CAPSCREW	
	02			9	128-M6	NUT, Nylock	
	03			16	141-M6	WASHER, Flat	
	04			1	9003053	COWLING RUBBER	
	05			1	UV-09100037	COWLING, Air Intake	
	06			1	UV-09100128	INTAKE COWLING RUBBER	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ENGINE MOUNTING ASSEMBLY
FOR BF6L913 & BF6L914 AIR COOLED**

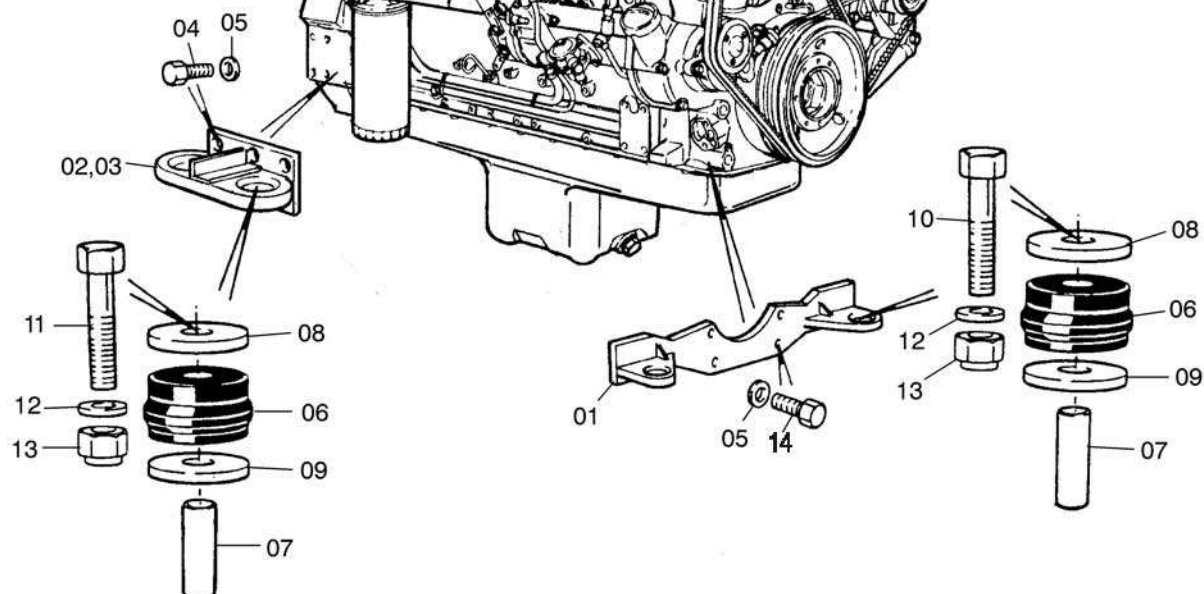
DATE: 19.08.2009
REV: THIRTY
FOUR



P I
2500 00



Refer to
Page 042

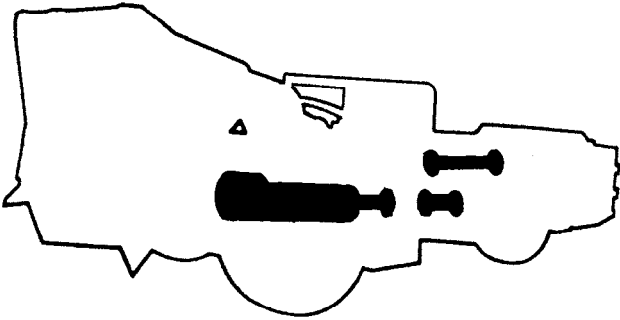


DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER ENGINE MOUNTING ASSEMBLY FOR BF6L913 & BF6L914 AIR COOLED					Pg 046
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
2500	00			1		ENGINE MOUNTING ASSEMBLY	
	01			1	UV-09100358	BRACKET, Cross Member - Engine	
	02			1	UV-09100430	MOUNTING, Engine - RH	
	03			1	UV-09100430	MOUNTING, Engine - LH	
	04			16	109-M12-40	SCREW, Hex Hd, M12 x 40 lg, Gr 10,9	
	05			16	143-M12	WASHER, Spring, Dia. 12	
	06			6	UV-82102162020	MOUNTING, Flexible	
	07			6	UV-09100384	BUSH, Engine Mounting	
	08			6	UV-09100383	WASHER	
	09			6	UV-82100100	SPACER, Bottom	
	10			2	104-M12-130	BOLT, Hex Hd	
	11			4	104-M12-150	BOLT, Hex Hd	
	12			6	141-M12	WASHER, Flat	
	13			6	128-M12	NUT, Hex Nyloc	
	14			4	109-M14-100	SCREW, HEX SOCKET HEAD CAP	

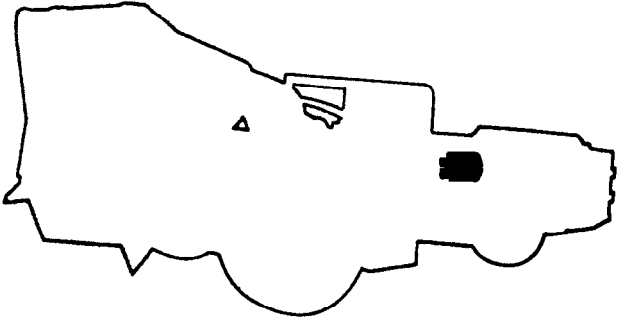
**PAGES 047 TO 060 LEFT BLANK
FOR FUTURE USE**

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DRIVE TRAIN GROUP

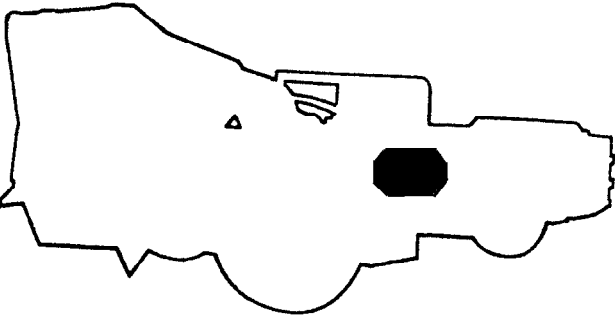
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REV:



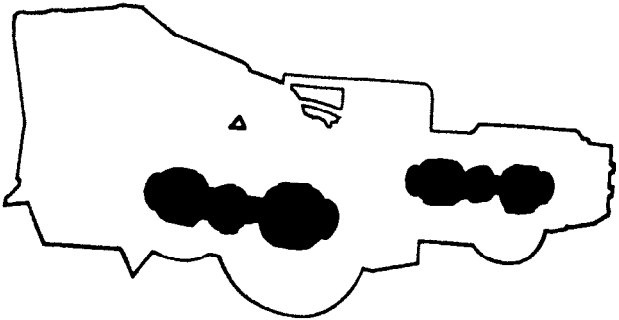
P I
3100 00



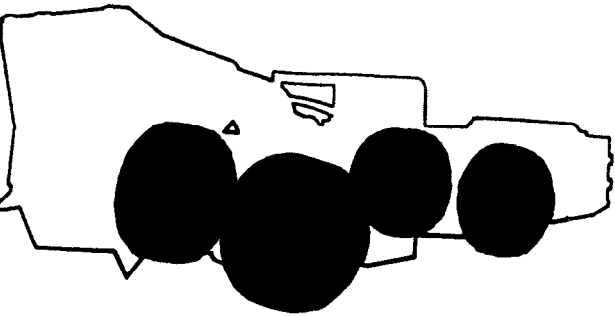
P I
3200 00



P I
3400 00



P I
3600 00



P I
3700 00

DATE: 19-04-05
REV: EIGHT

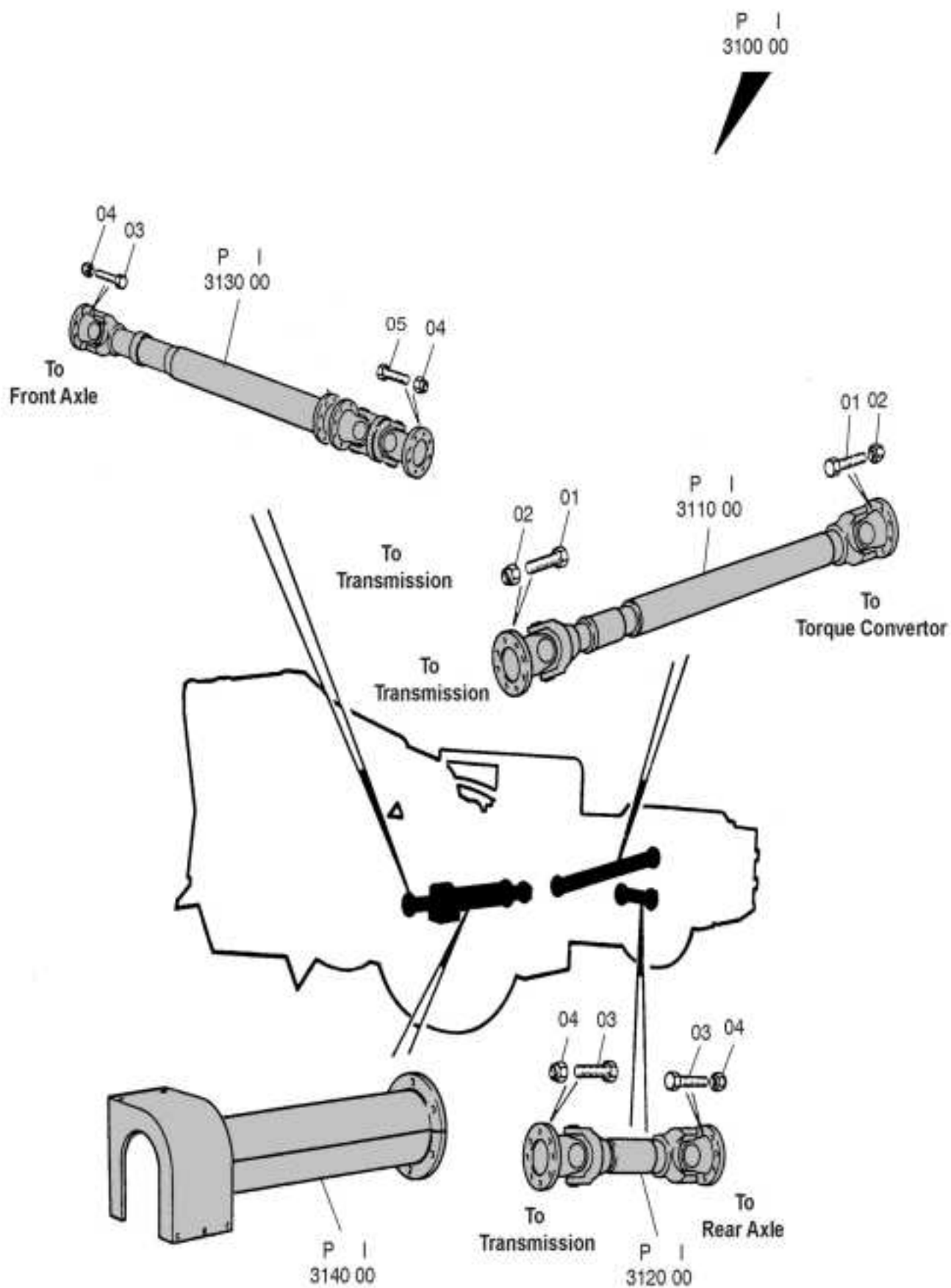
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DRIVE TRAIN GROUP

Pg 061

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3000	00			1		DRIVE TRAIN GROUP	
3100	00		062	1		DRIVE LINE ASSEMBLY	
3200	00		067	1		TORQUE CONVERTOR FINAL ASSEMBLY	
3400	00		078	1		TRANSMISSION FINAL ASSEMBLY	
3600	00		090	1		AXLE ASSEMBLY	
3700	00		097	4	9002247	WHEEL ASSEMBLY	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DRIVE LINE ASSEMBLY
FOR BF6L913 & BF6L914 AIR COOLED**

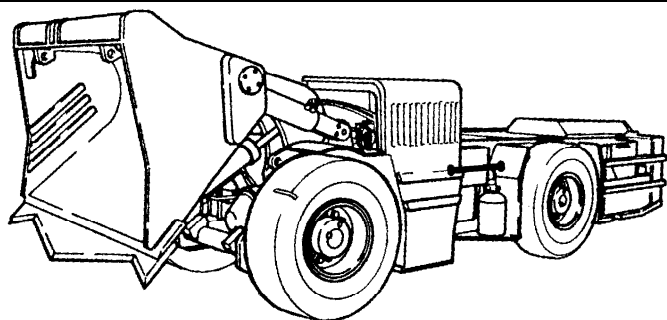
DATE: 09.12.2011
REV: FIFTY FIVE



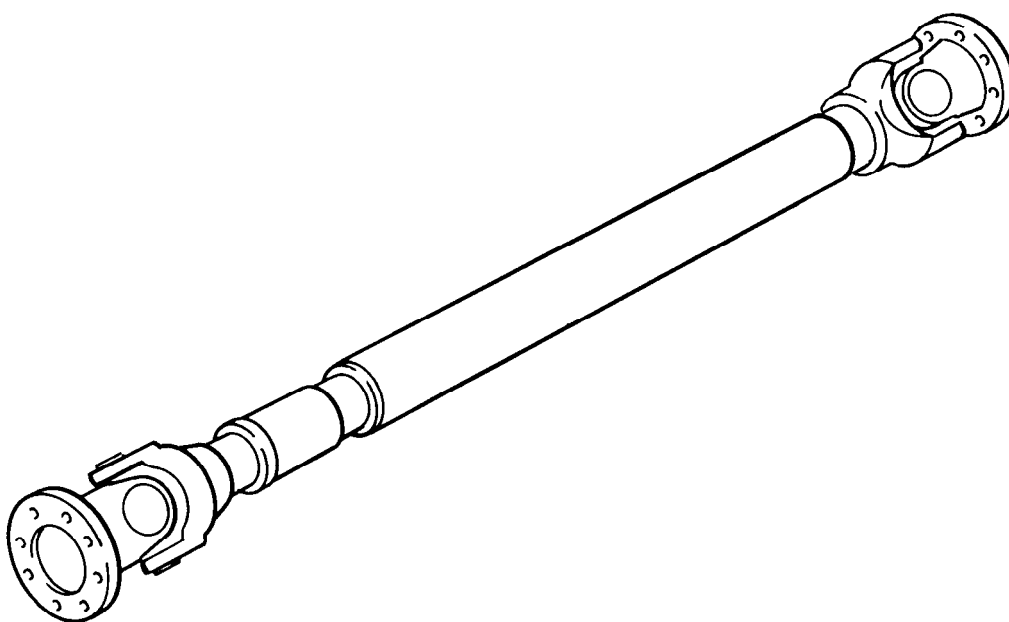
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER DRIVE LINE ASSEMBLY FOR BF6L913 & BF6L914 AIR COOLED					Pg 062
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3100	00			1		DRIVE LINE ASSEMBLY	
	01			16	118-M10-1,25-30	BOLT, Hex Hd	
	02			16	123-M10-1,25	NUT, Stover Locking	
	03			24	118-M12-1,5-35	BOLT, Hex Hd	
	04			32	123-M12-1,4	NUT, Stover Locking	
	05			8	118-M12-1,5-40	BOLT, Hex Hd	
3110	00		063	1	9000759	DRIVE SHAFT ASSEMBLY - TORQUE CONVERTOR TO TRANSMISSION	
3120	00		064	1	9000760	DRIVE SHAFT ASSEMBLY - TRANSMISSION TO REAR AXLE	
3130	00		065	1	UV-81500104	DRIVE SHAFT ASSEMBLY - TRANSMISSION TO FRONT AXLE	
3140	00		066	1	UV-09100431	DRIVE SHAFT PROTECTION COVER ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DRIVE SHAFT ASSEMBLY -
TORQUE CONVERTOR TO TRANSMISSION

DATE:
REV:



P I
3110 00



DATE:
REV:

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DRIVE SHAFT ASSEMBLY -
TORQUE CONVERTOR TO TRANSMISSION

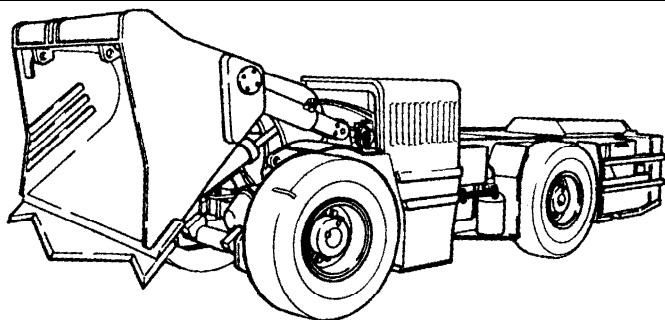
Pg 063

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
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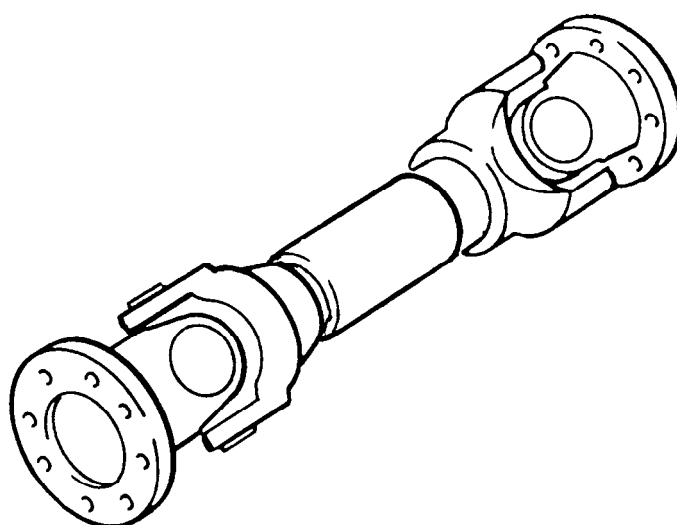
3110	00			1	9000759	DRIVE SHAFT ASSEMBLY - TORQUE CONVERTOR TO TRANSMISSION Note: Supplied as a unit	
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AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DRIVE SHAFT ASSEMBLY -
TRANSMISSION TO REAR AXLE

DATE:
REV:



P I
3120 00



DATE:
REV:

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DRIVE SHAFT ASSEMBLY -
TRANSMISSION TO REAR AXLE

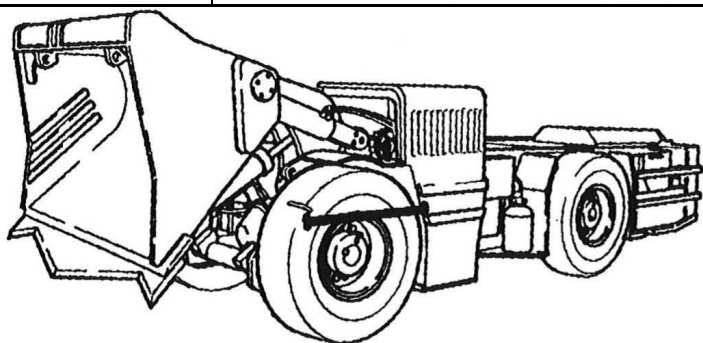
Pg 064

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
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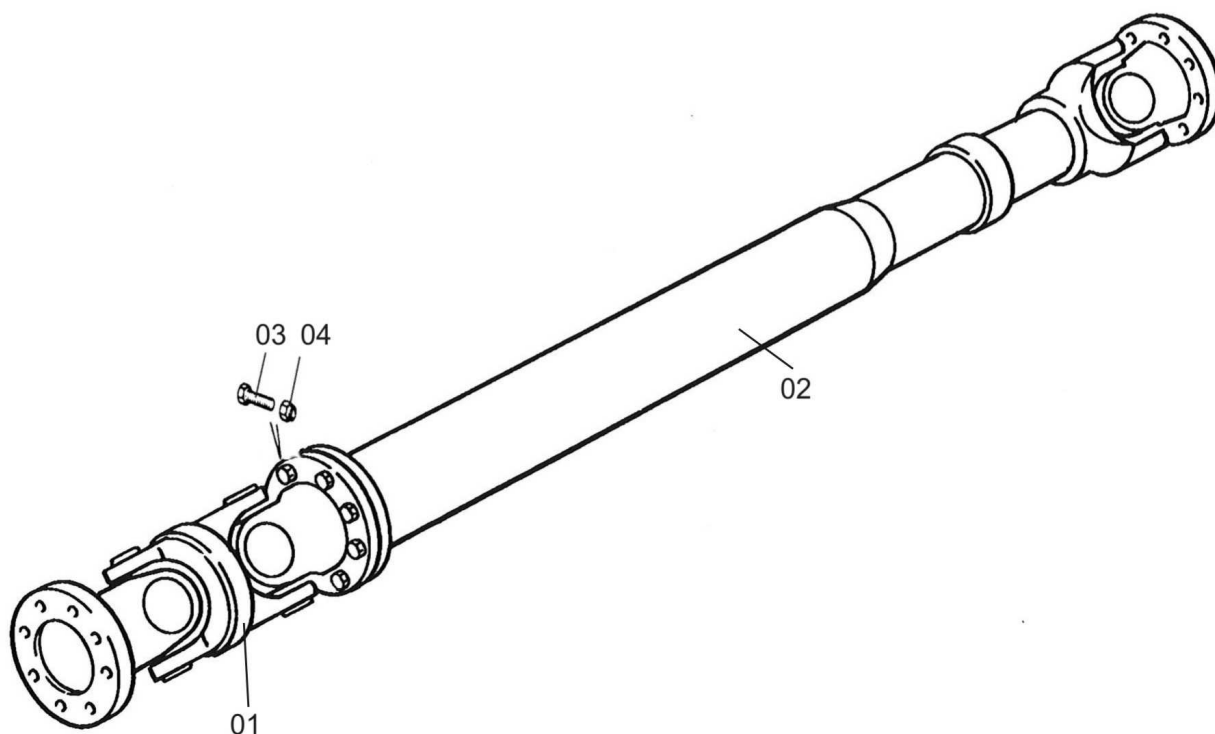
3120	00			1	9000760	DRIVE SHAFT ASSEMBLY - TRANSMISSION TO REAR AXLE Note: Supplied as a unit	
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AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DRIVE SHAFT ASSEMBLY -
TRANSMISSION TO FRONT AXLE

DATE: 09.12.2011
REV: FIFTY FIVE



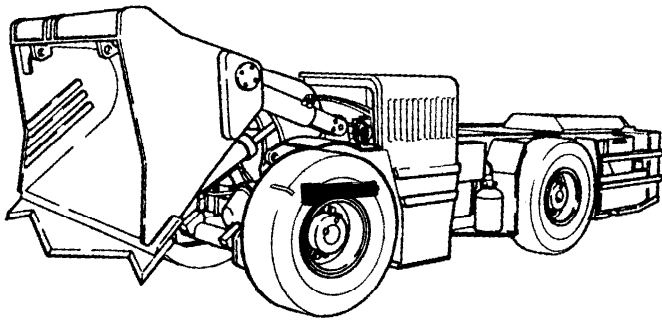
P I
3130 00



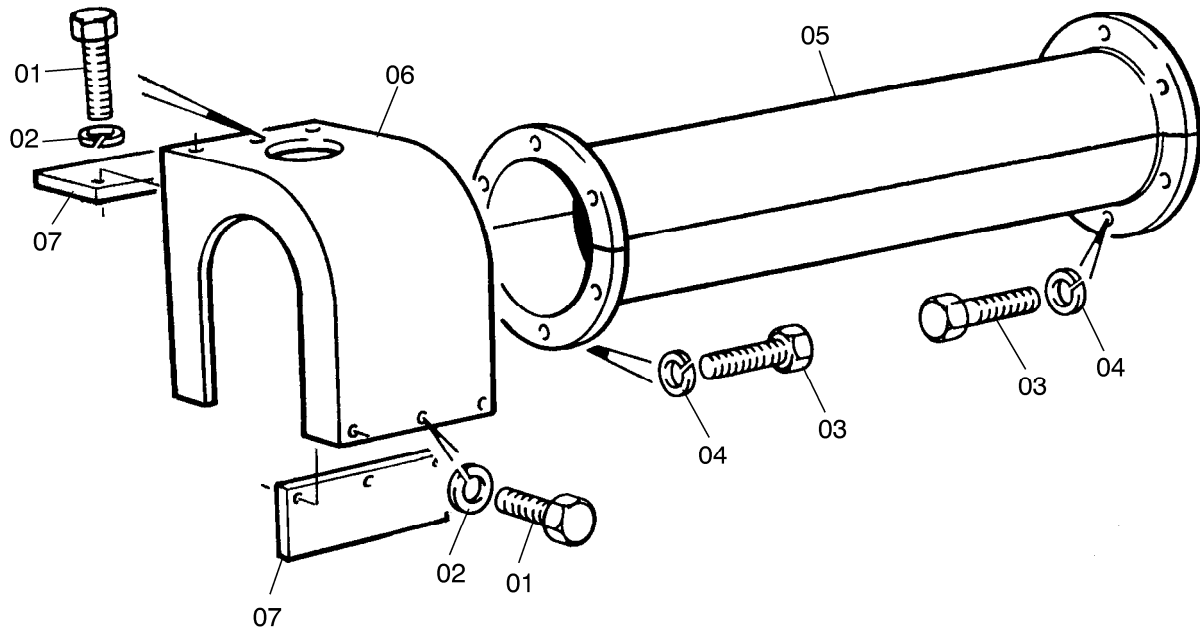
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER DRIVE SHAFT ASSEMBLY - TRANSMISSION TO FRONT AXLE					Pg 065
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3130	00			1	UV-81500104	DRIVE SHAFT ASSEMBLY - TRANSMISSION TO FRONT AXLE KNUCKLE ASSEMBLY, Propshaft FRONT ASSEMBLY, Propshaft BOLT, Hex Hd NUT, Stover Locking Note: Supplied as a unit	
	01			1	UV-81500103		
	02			1	UV-81500067		
	03			8	118-M12-1,5-35		
	04			8	123-M12-1,5		

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DRIVE SHAFT PROTECTION COVER ASSEMBLY

DATE:
REV:



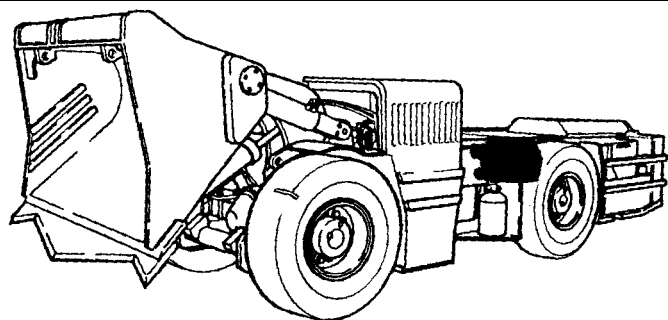
P I
3140 00



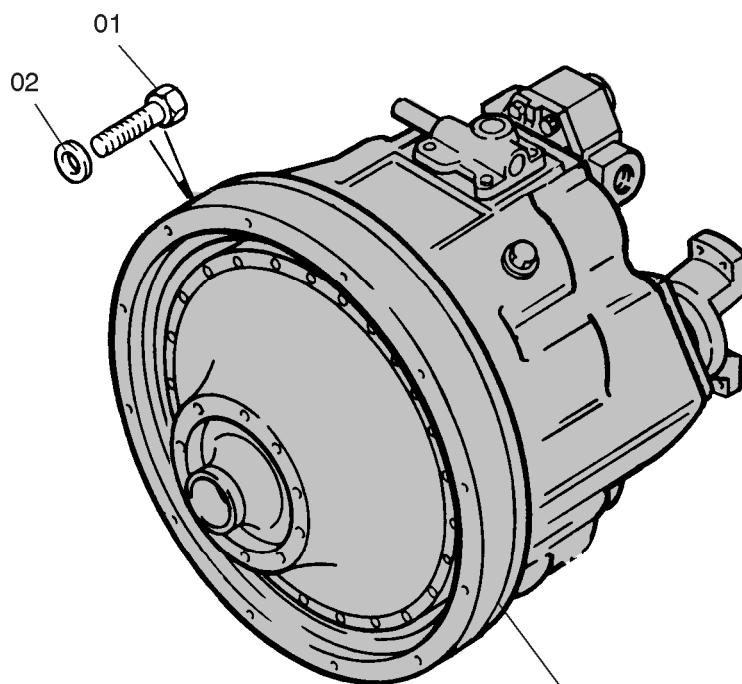
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER DRIVE SHAFT PROTECTION COVER ASSEMBLY					Pg 066
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3140	00			1	UV-09100431	DRIVE SHAFT PROTECTION COVER ASSEMBLY	
	01			6	105-M16-35	SCREW, Hex Hd	
	02			6	143-M16	WASHER, Spring	
	03			11	106-12-30	SCREW, Hex Hd	
	04			11	143-M12	WASHER, Spring	
	05			1	UV-09100432	TUBE	
	06			1	UV-09100433	COVER	
	07			2	UV-09100434	PLATE, Mounting - Welded	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR FINAL ASSEMBLY

DATE:
REV:



P I
3200 00



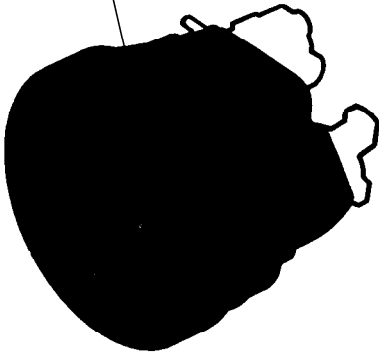
P I
3210 00

DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR FINAL ASSEMBLY					Pg 067
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3200	00			1		TORQUE CONVERTOR FINAL ASSEMBLY	
	01			12	105-M10-55	SCREW, Hex Hd, M10 x 55 lg	
	02			12	143-M10	WASHER, Spring, Dia. 10	
3210	00		068	1	UV-852292920	TORQUE CONVERTOR ASSEMBLY	

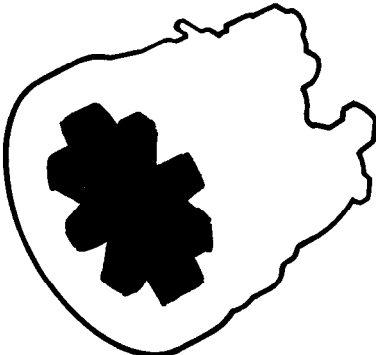
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR ASSEMBLY

DATE:
REV:

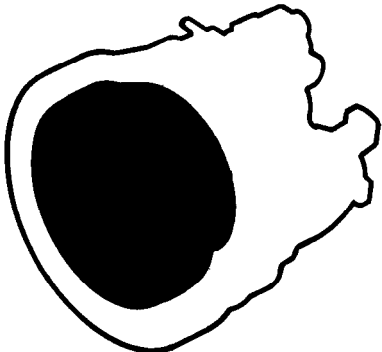
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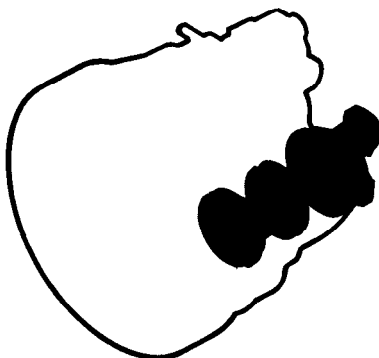
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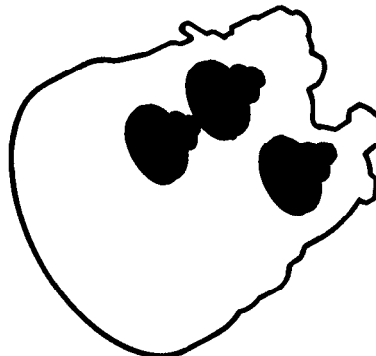
P I
3230 00



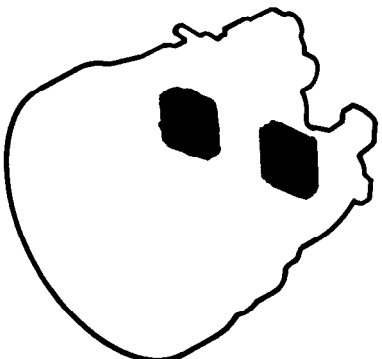
P I
3240 00



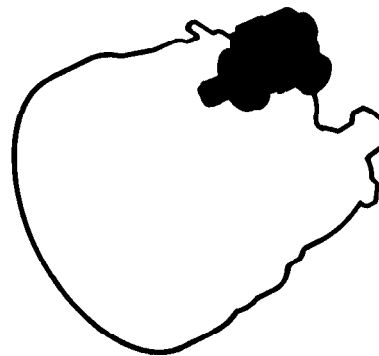
P I
3250 00



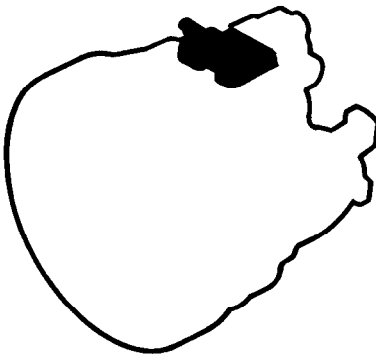
P I
3260 00



P I
3270 00



P I
3280 00

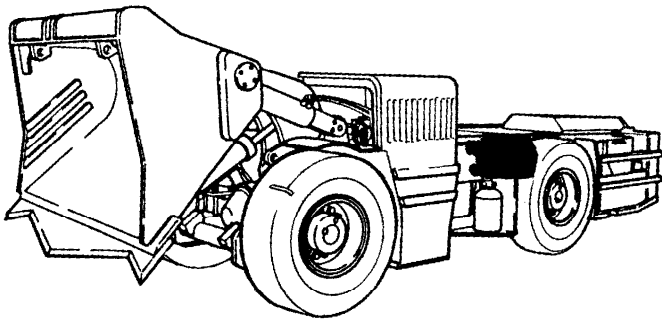


P I
3310 00

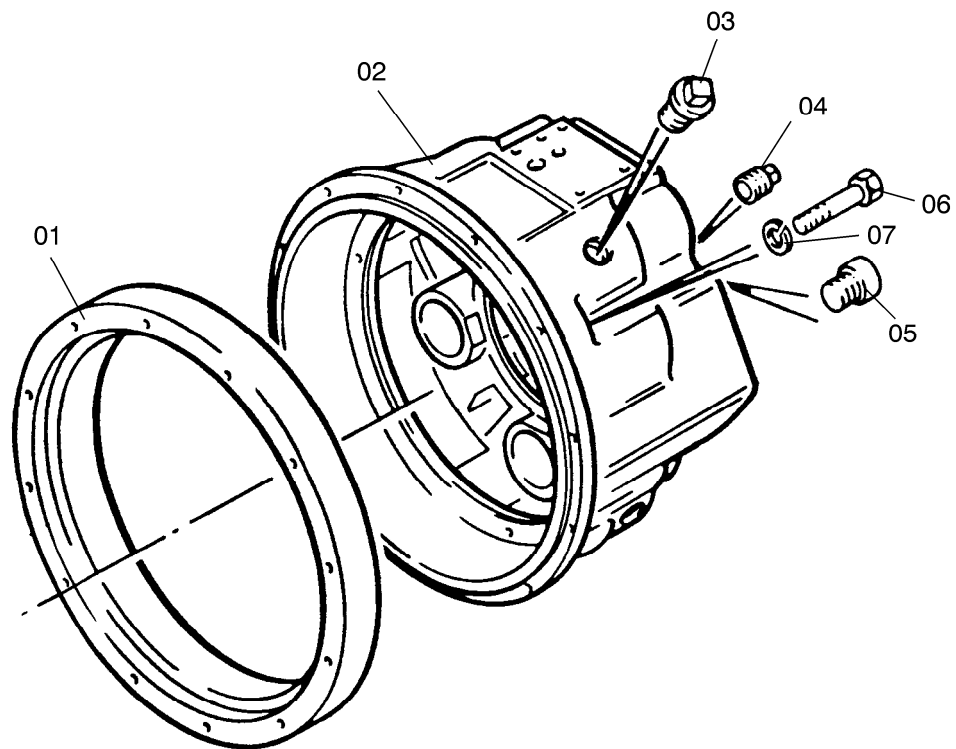
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR ASSEMBLY					Pg 068
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3210	00			1	UV-852292920	TORQUE CONVERTOR ASSEMBLY	
	01			1	UV-853248142	VALVE ASSEMBLY, Breather (Not Illustrated)	
	02			2	UV-853235262	SLEEVE (Not Illustrated)	
3220	00		069	1		TORQUE CONVERTOR HOUSING ASSEMBLY	
3230	00		070	1	UV-853802568	TORQUE CONVERTOR FLEXI PLATE ASSEMBLY	
3240	00		071	1		TORQUE CONVERTOR FLYWHEEL ASSEMBLY	
3250	00		072	1	UV-852292920/2	TORQUE CONVERTOR OUTPUT SHAFT ASSEMBLY	
3260	00		073	1	UV-852292920/1	TORQUE CONVERTOR PUMP DRIVE ASSEMBLY	
3270	00		074	1	UV-852292920/3	TORQUE CONVERTOR PUMP ADAPTOR PLATE ASSEMBLY	
3280	00		075	1		TORQUE CONVERTOR CHARGING PUMP MOUNTING ASSEMBLY	
3310	00		077	1	UV-853214969	TORQUE CONVERTOR PRESSURE REGULATING VALVE ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR HOUSING ASSEMBLY

DATE:
REV:



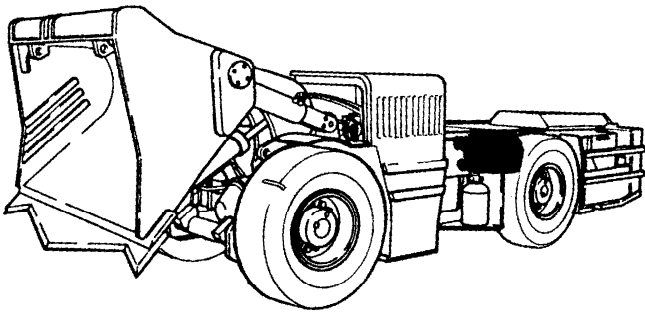
P I
3220 00



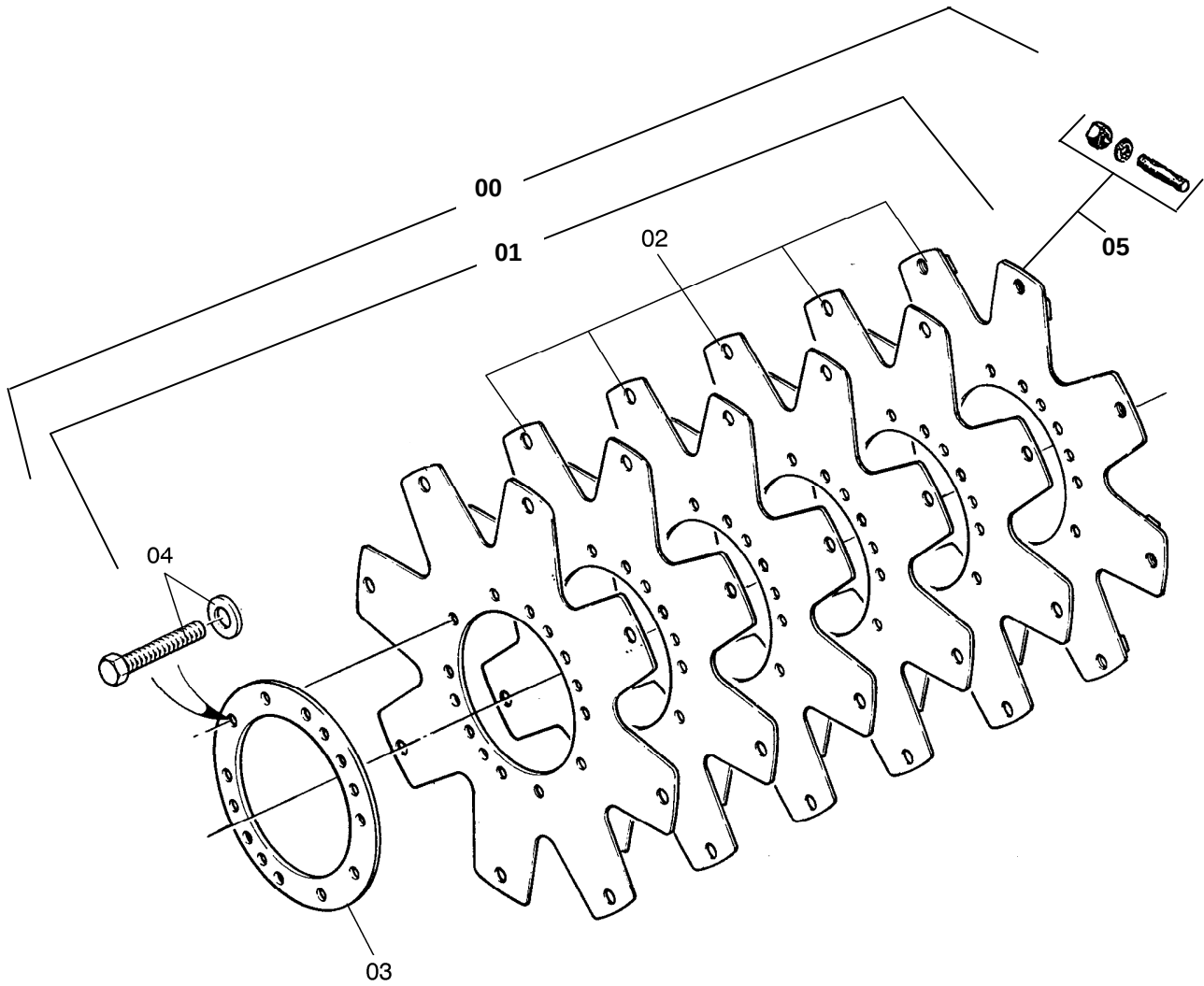
DATE: 17.11.2012 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR HOUSING ASSEMBLY					Pg 069
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3220	00			1		TORQUE CONVERTOR HOUSING ASSEMBLY	
	01			1	UV-853240236	RING	
	02			1	UV-853249528	HOUSING	
	03			1	UV-853248142	BREATHER	
	04			1	UV-85316F08	PLUG	
	05			1	UV-85340K02	PLUG	
	06			3	UV-853IC628	SCREW	
	07			3	UV-8534E06	WASHER, Spring	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR FLEXI PLATE ASSEMBLY

DATE: 21.11.06
REV: TWENTY
THREE



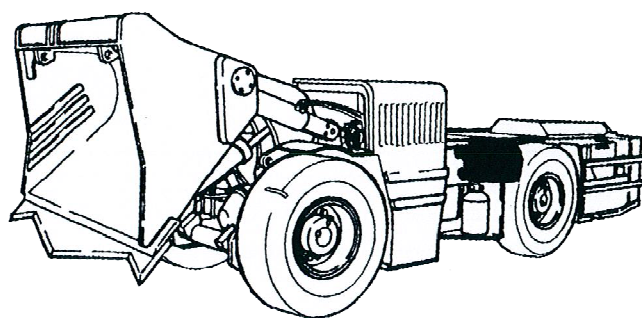
P I
3230 00



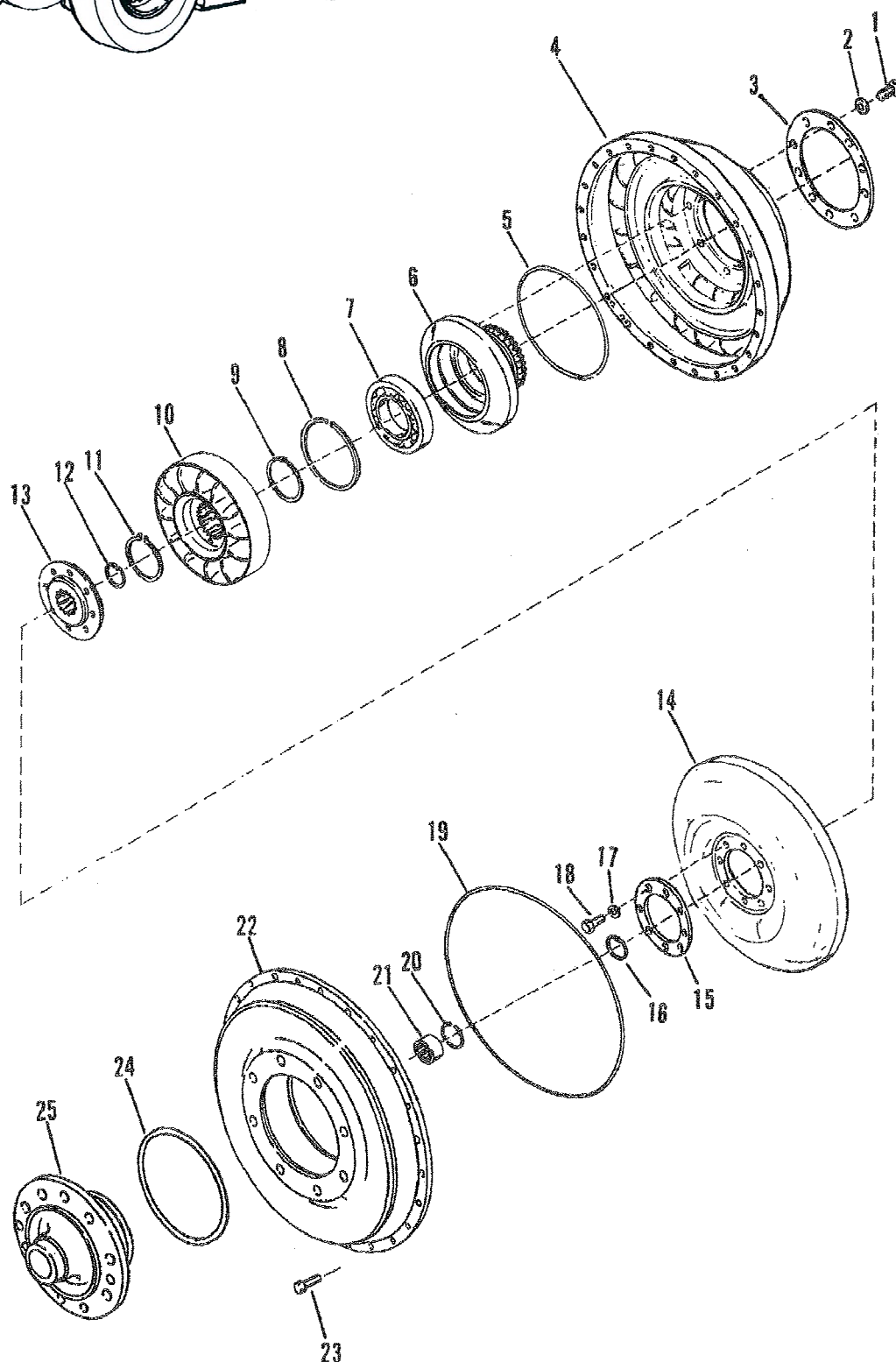
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR FLEXI PLATE ASSEMBLY					Pg 070
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3230	00			1	UV-853802568	TORQUE CONVERTOR FLEXI PLATE ASSEMBLY (ITEMS 1 - 5)	
	01			1	UV-853802568	PLATE, Flexi Assy. (Items 2 - 4)	
	02			1	UV-85300376	PLATE, Flexi (Set of 5)	
	03			1	UV-853246615	RING	
	04			10	UV-853249134	CAPSCREW & LOCKWASHER	
	05			8	9003119	KIT, Flex Plate Stud & Nut	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR FLYWHEEL ASSEMBLY

DATE: 17.11.2014
REV: NINETY NINE



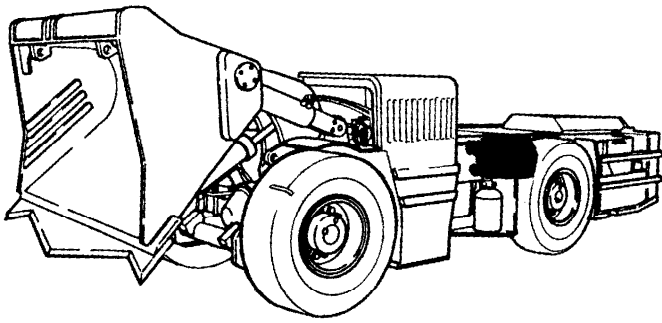
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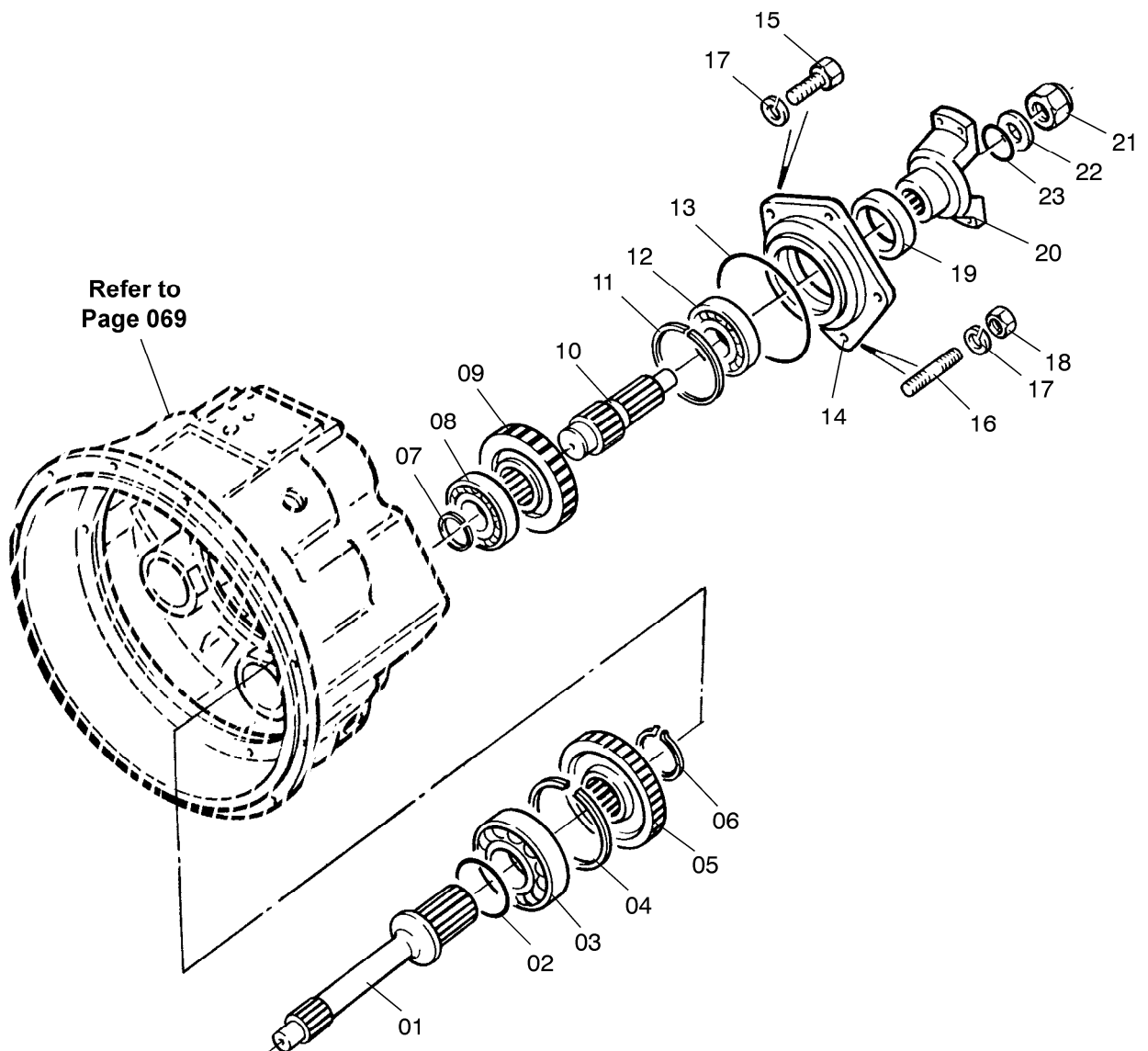
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR FLYWHEEL ASSEMBLY					Pg 071
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3240	00			1		TORQUE CONVERTOR FLYWHEEL ASSEMBLY	
	01			8	UV-8534C-714	SCREW, Hub to Impeller	
	02			8	UV-85325E-19	LOCKWASHER, Hub to Impeller Screw	
	03			-	-	Not used on this Model	
	04			1	UV-853214920	IMPELLER	
	05			1	UV-85360K-40616	O-RING, Impeller Hub	
	06			1	UV-853214923	HUB, Impeller	
	07			1	UV-853237190	BEARING, Impeller Hub	
	08			1	UV-853214953	SNAP RING, Bearing	
	09			1	UV-853229566	SPACER, Reaction Member	
	10			1	UV-853229565	MEMBER, Reaction	
	11			1	UV-853243262	SNAP RING, Reaction Member	
	12			1	UV-853248098	RETAINING RING, Turbine Hub	
	13			1	UV-853214924	HUB, Turbine	
	14			1	UV-853222684	TURBINE	
	15			1	UV-853242045	BACKING RING, Turbine Hub Screw	
	16			1	UV-853248098	RETAINING RING, Turbine Hub	
	17			-	-	Not used on this Model	
	18			8	UV-853242046	SCREW, Turbine Hub	
	19			1	UV-853232535	'O'-RING, Impeller to Cover	
	20			1	UV-853247477	BEARING, Snap Ring	
	21			1	UV-853214988	BEARING, Impeller Cover	
	22			1	UV-853249552	COVER, Impeller (Not Shown)	
	23			1	UV-8531C618	SCREW, Impeller to Cover	
	23a			1	UV-8534E6	LOCKWASHER, Impeller to Cover Screw	
	24			-	-	Not used on this Model	
	25			-	-	Not used on this Model	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR OUTPUT SHAFT ASSEMBLY

DATE:
REV:



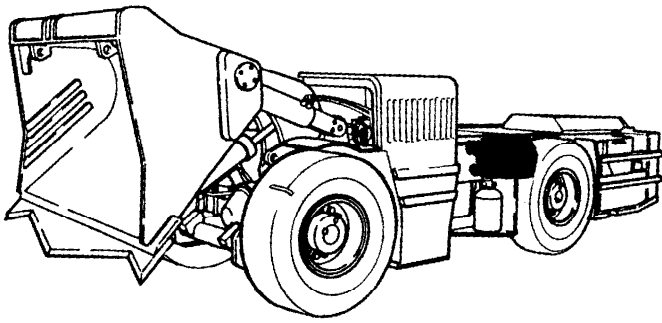
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3250 00



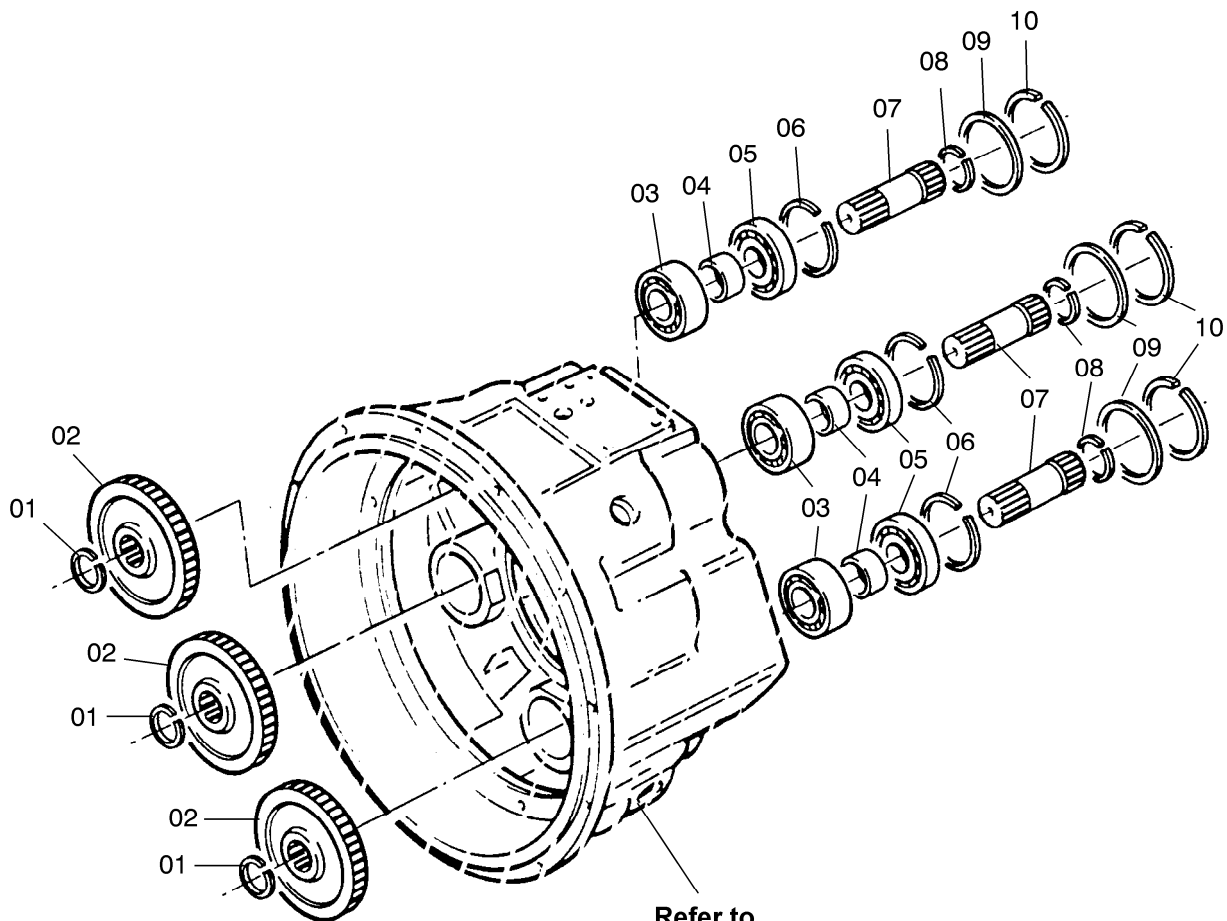
DATE: 13.12.2010 REV: FORTY EIGHT			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR OUTPUT SHAFT ASSEMBLY				Pg 072
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3250	00			1	UV-852292920/2	TORQUE CONVERTOR OUTPUT SHAFT ASSEMBLY	
	01			1	UV-853214933	SHAFT	
	02			1	UV-853250089	RING, Piston	
	03			1	UV-853239742	BEARING, Roller	
	04			1	UV-853214953	RING, Snap	
	05			1	UV-853242430	GEAR, Shaft - Turbine	
	06			1	UV-853224026	RING, Snap	
	07			1	UV-853214955	RING, Snap	
	08			1	UV-853242473	BEARING, Roller	
	09			1	UV-853242431	WHEEL, Gear	
	10			1	UV-853214937	SHAFT	
	11			1	UV-853230889	RING, Snap	
	12			1	UV-853223349	BEARING, Roller	
	13			1	UV-85360K40512	O-RING	
	14			1	UV-853242463	HOUSING	
	15			3	UV-8534E07	SCREW, Hex Hd	
	16			2	UV-853214730	BOLT, Stud	
	17			5	UV-8534E07	WASHER, Spring	
	18			2	UV-853224026	NUT, Hex	
	19			1	UV-853206864	RING, Seal	
	20			1	UV-8534200046	FLANGE, Cardan	
	21			1	UV-853216058	NUT, Hex Lock	
	22			1	UV-853102745	WASHER	
	23			1	UV-85360K40412	O-RING	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR PUMP DRIVE ASSEMBLY

DATE:
REV:



P I
3260 00

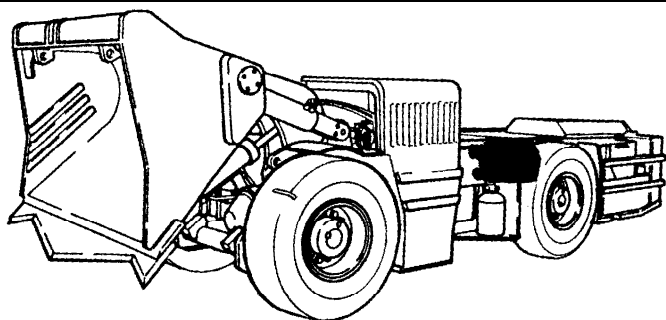


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Page 069

DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR PUMP DRIVE ASSEMBLY					Pg 073
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3260	00			1	UV-852292920/1	TORQUE CONVERTOR PUMP DRIVE ASSEMBLY	
	01			3	UV-853247484	RING, Snap	
	02			3	UV-853214931	WHEEL, Gear	
	03			3	UV-853225930	BEARING, Roller	
	04			3	UV-853216914	SLEEVE, Spacer	
	05			3	UV-853214956	BEARING, Roller	
	06			3	UV-853214954	RING, Snap	
	07			3	UV-853237548	SHAFT	
	08			3	UV-853224039	RING, Snap	
	09			3	UV-853214929	WASHER	
	10			3	UV-853247487	RING, Snap	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR PUMP ADAPTOR PLATE
ASSEMBLY

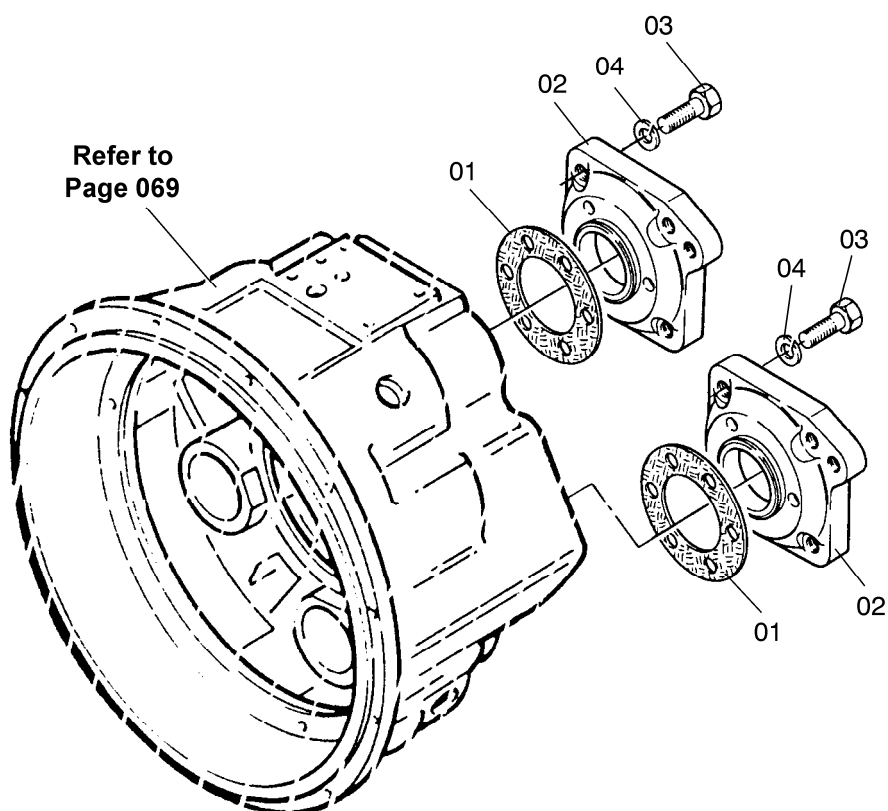
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REV:



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3270 00



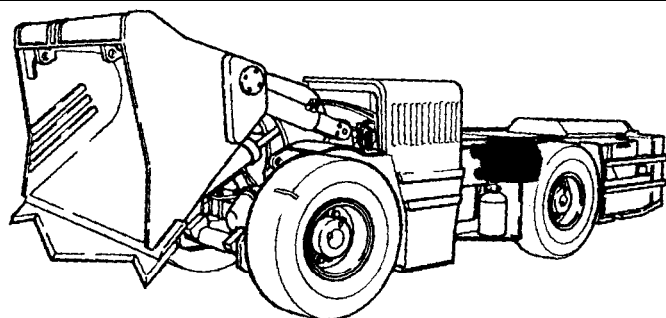
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Page 069



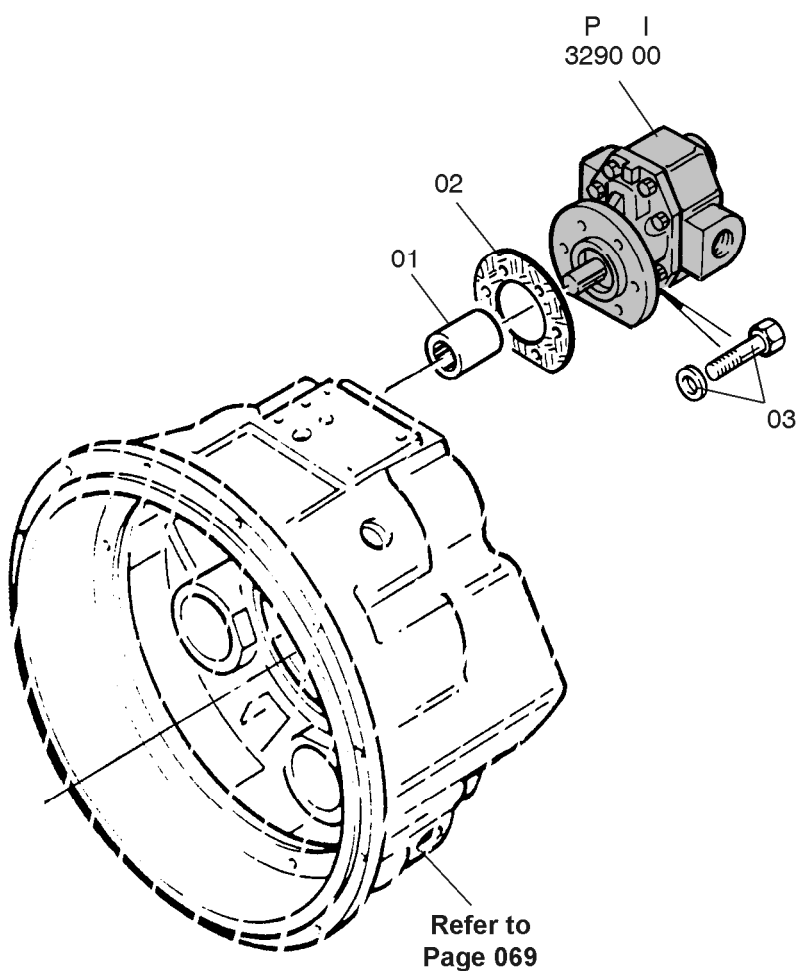
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR PUMP ADAPTOR PLATE ASSEMBLY					Pg 074
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3270	00			1	UV-852292920/3	TORQUE CONVERTOR PUMP ADAPTOR PLATE ASSEMBLY	
	01			2	UV-853235961	GASKET	
	02			2	UV-853230502	FLANGE	
	03			6	101-6W-100	BOLT, Hex Hd, 3/8" 16 UNC x 1" lg	
	04			6	143-6	WASHER	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR CHARGING PUMP MOUNTING
ASSEMBLY

DATE:
REV:



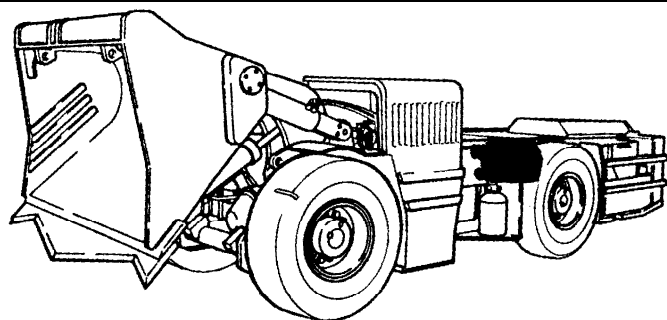
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3280 00



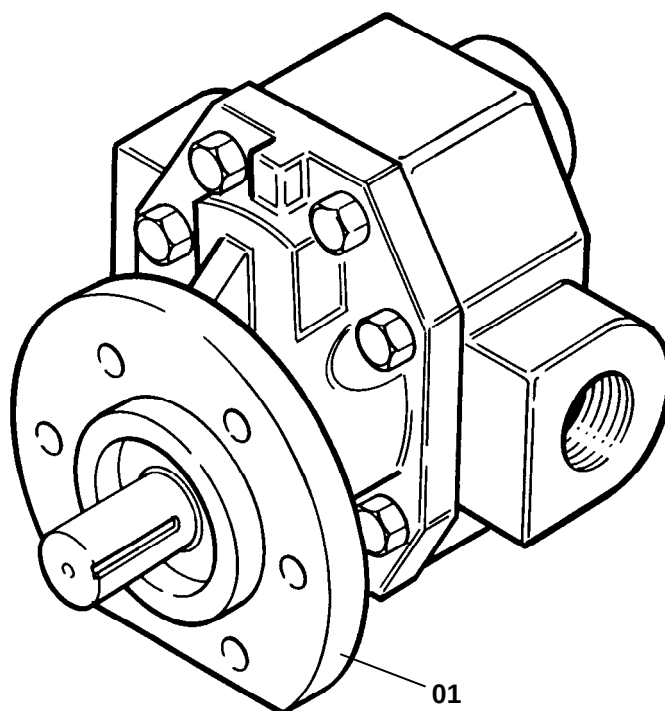
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR CHARGING PUMP MOUNTING ASSEMBLY					Pg 075
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3280	00			1		TORQUE CONVERTOR CHARGING PUMP MOUNTING ASSEMBLY	
	01			1	UV-853214961	SLEEVE	
	02			1	UV-853235961	GASKET	
	03			3	UV-85300403	SCREW c/w Washer	
3290	00		076	1	UV-85345023CI / UV-853450230A	TORQUE CONVERTOR CHARGING PUMP ASSEMBLY	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR CHARGING PUMP ASSEMBLY**

DATE: 26.02.2010
REV: FOURTY ONE



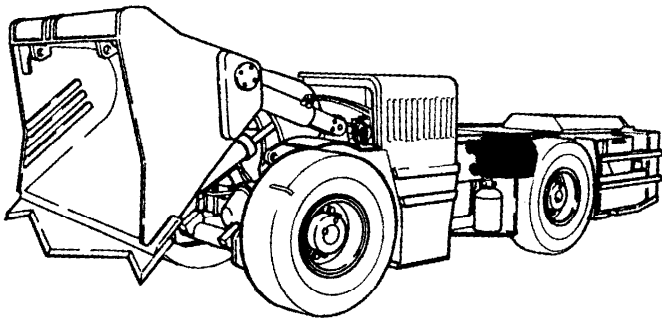
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3290 00



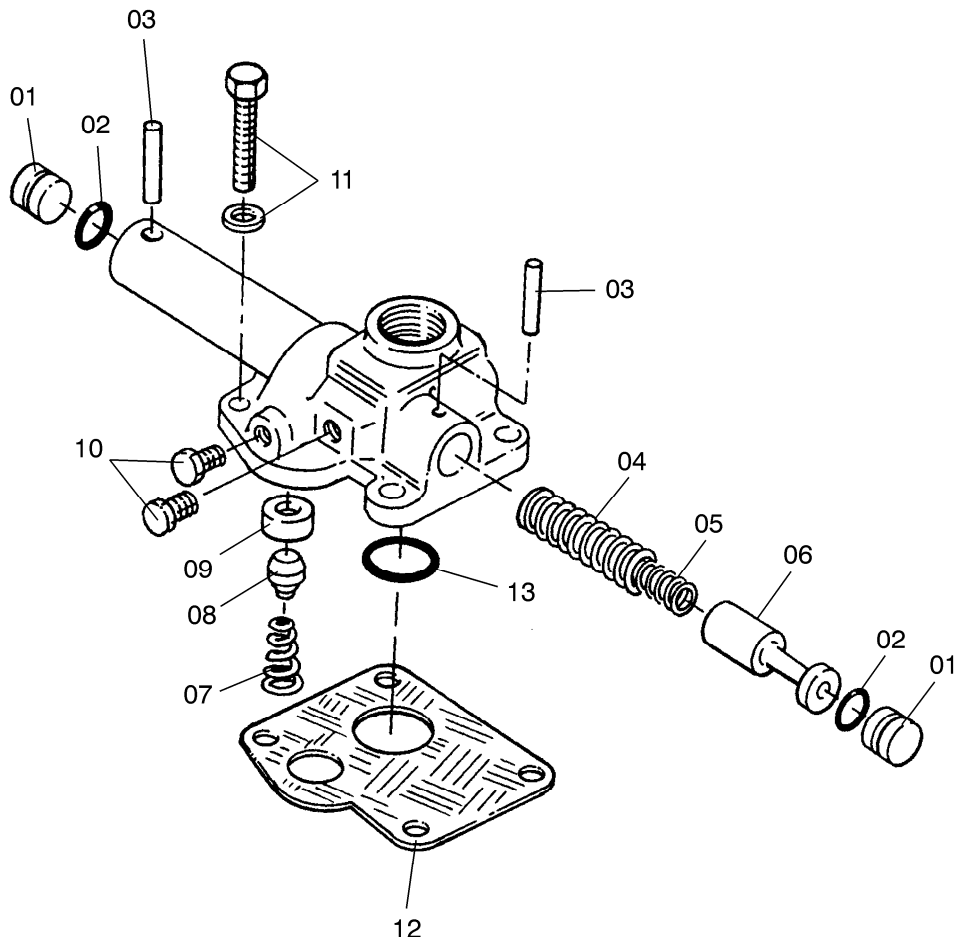
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR CHARGING PUMP ASSEMBLY					Pg 076
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3290	00			1	UV-853230502CI OR UV-853230502	TORQUE CONVERTOR CHARGING PUMP ASSEMBLY – CAST IRON TORQUE CONVERTOR CHARGING PUMP ASSEMBLY – ALLIMINIUM Note: Supplied as a unit	
	01			1	UV-90400048	FLANGE, GEAR CHANGE PUMP T/CONV.	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TORQUE CONVERTOR PRESSURE REGULATING VALVE
ASSEMBLY

DATE:
REV:



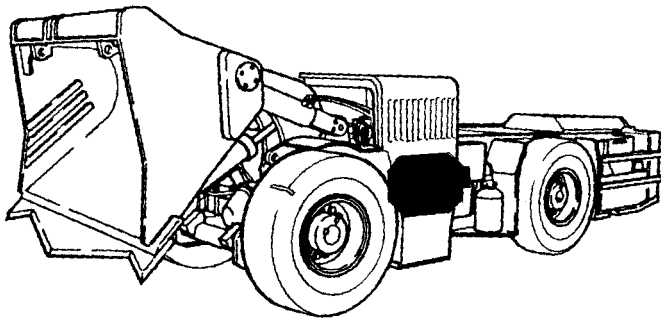
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3310 00



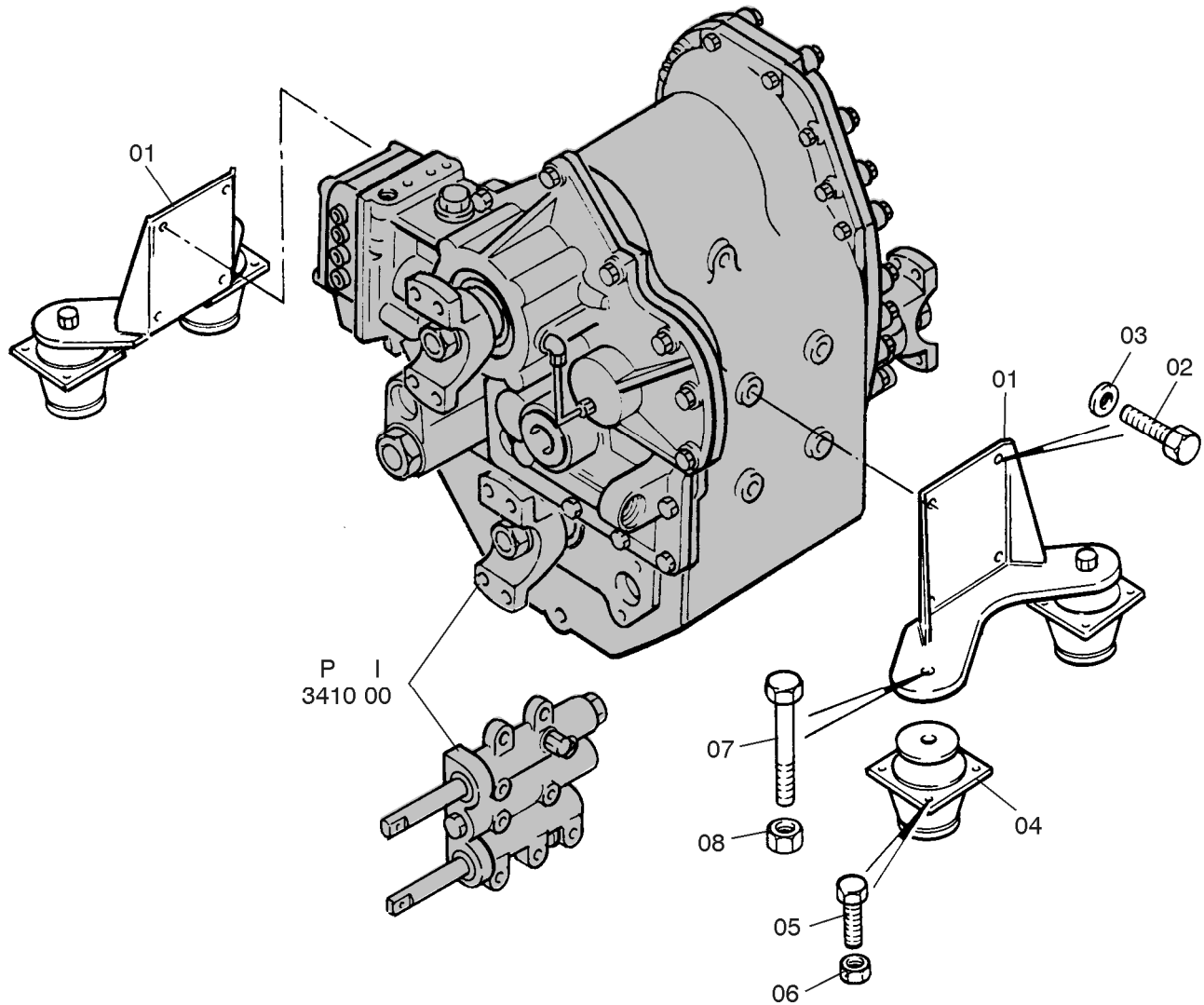
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TORQUE CONVERTOR PRESSURE REGULATING VALVE ASSEMBLY					Pg 077
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3310	00			1	UV-853214969	TORQUE CONVERTOR PRESSURE REGULATING VALVE ASSEMBLY	
	01			2	UV-853220983	PLUG, Stop	
	02			2	UV-85360K30018	O-RING	
	03			2	UV-853660178	PIN	
	04			1	UV-853220981	SPRING	
	05			1	UV-853220982	SPRING	
	06			1	UV-853224466	PISTON	
	07			1	UV-853223312	SPRING	
	08			1	UV-853223318	PISTON	
	09			1	UV-853214946	SEAT, Valve	
	10			2	UV-85340K02	PLUG	
	11			1	UV-85300403	SCREW c/w Washer	
	12			1	UV-853214949	GASKET	
	13			1	UV-85360K40104	O-RING	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION FINAL ASSEMBLY

DATE:
REV:



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3400 00



DATE: 17.11.2014
REV: NINETY NINE

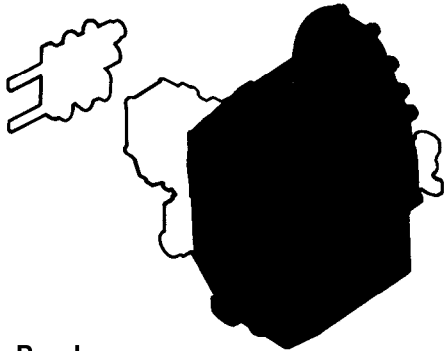
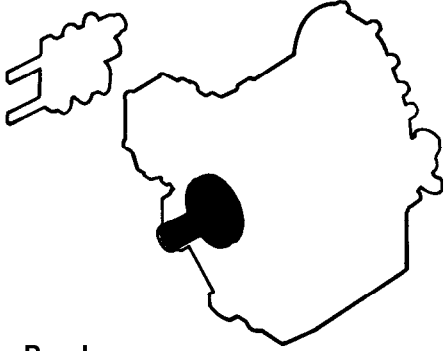
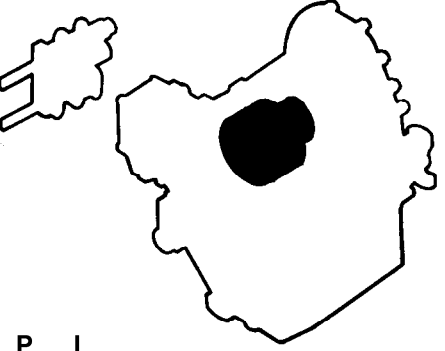
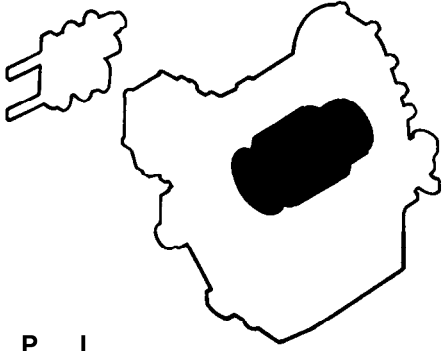
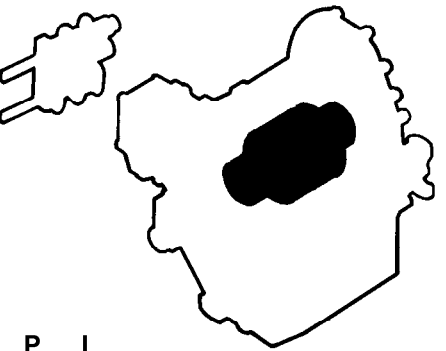
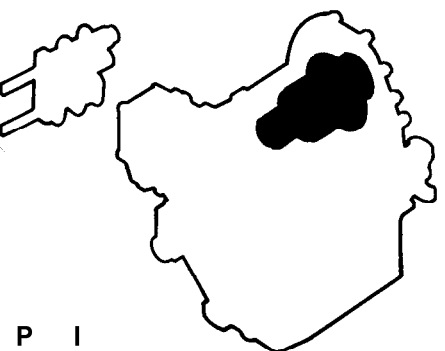
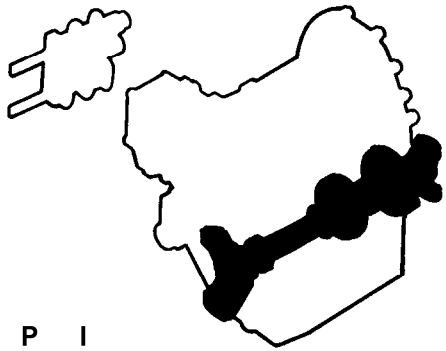
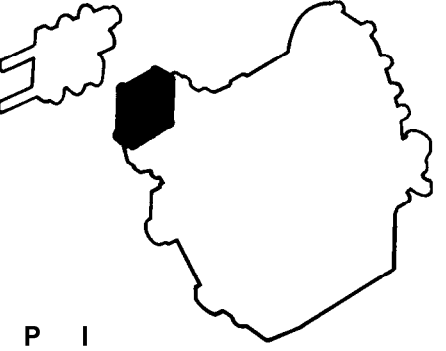
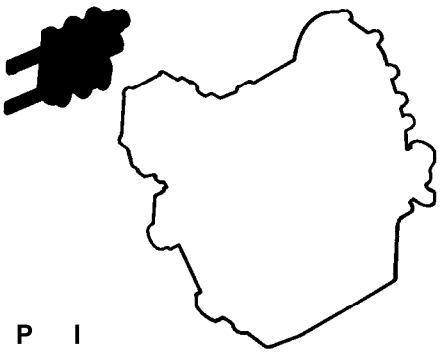
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION FINAL ASSEMBLY

Pg 078

Pos P	Item I	Comm. No.	See Pag e	Qty	Part No.	Description	Dwg. No.
3400	00			1		TRANSMISSION FINAL ASSEMBLY	
	01			2		BRACKET, Mounting	
	02			8	102-12W-6	BOLT, Hex Hd	
	03			8	311-760-762068	WASHER, Nordlock	
	04			4	UV-853786027	MOUNTING, Flexible	
	05			16	106-M10-40	SCREW, Hex Hd	
	06			16	128-M10	NUT, Hex	
	07			4	104-M16-120	SCREW, Hex Hd	
	08			4	128-M16	NUT, Hex	
3410	00		079	1	UV-8524262045	TRANSMISSION ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION ASSEMBLY

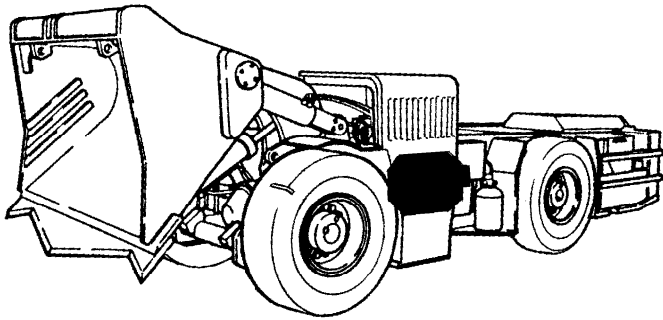
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 P I 3520 00		

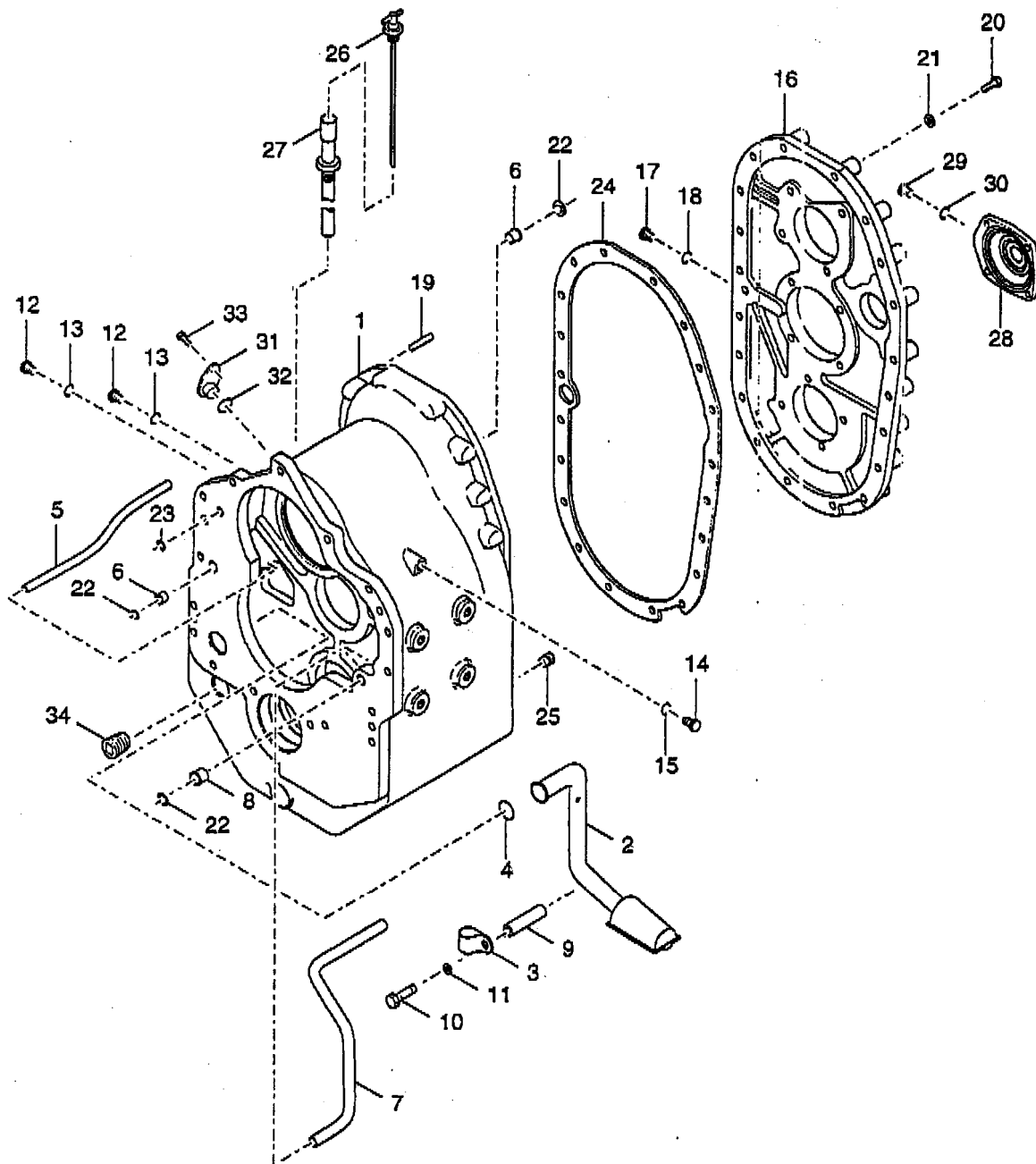
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TRANSMISSION ASSEMBLY					Pg 079
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3410	00			1	UV-8524262045	TRANSMISSION ASSEMBLY	
3420	00		080	1		TRANSMISSION CASE AND REAR COVER ASSEMBLY	
3430	00		081	1		TRANSMISSION INPUT SHAFT AND FRONT COVER ASSEMBLY	
3440	00		082	1		TRANSMISSION REVERSE IDLER ASSEMBLY	
3450	00		083	1		GEAR GROUP	
3450	00		083A	1		TRANSMISSION FORWARD SHAFT ASSEMBLY	
3460	00		084	1		TRANSMISSION LOW SPEED SHAFT ASSEMBLY	
3470	00		085	1		TRANSMISSION REVERSE AND 2ND SHAFT ASSEMBLY	
3480	00		086	1		TRANSMISSION 3RD SHAFT ASSEMBLY	
3490	00		087	1		TRANSMISSION OUTPUT SHAFT ASSEMBLY	
3510	00		088	1	UV-853266847	TRANSMISSION ADAPTOR PLATE ASSEMBLY	
3510	00		088A	1	UV-853237875	TRANSMISSION MODULATOR VALVE ASSEMBLY	
3520	00		089	1	UV-853235819	TRANSMISSION CONTROL VALVE ASSEMBLY GROUP	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION CASE AND REAR COVER ASSEMBLY

DATE: 08.11.05
REV: SIXTEEN



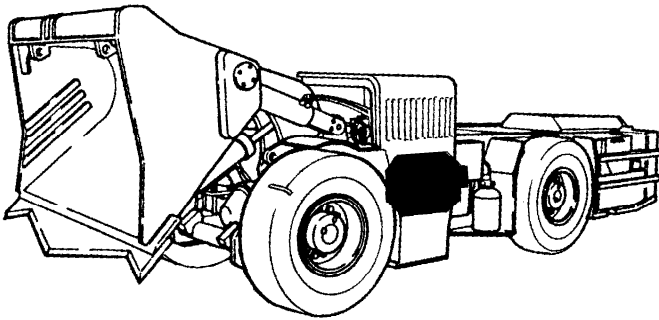
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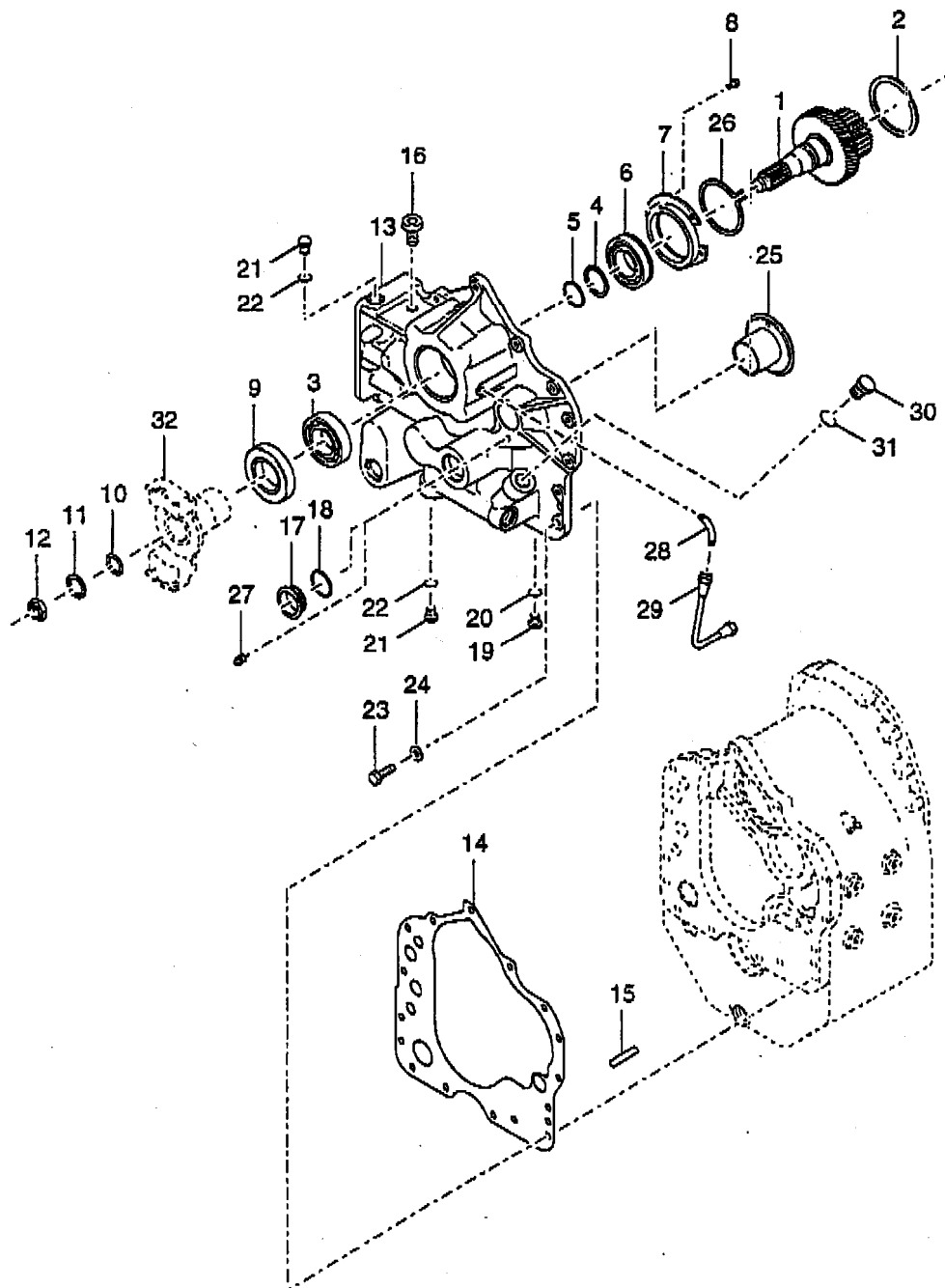
DATE: 08.11.05 REV: SIXTEEN		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TRANSMISSION CASE AND REAR COVER ASSEMBLY					Pg 080
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3420	00			1		TRANSMISSION CASE AND REAR COVER ASSEMBLY	
	01			1	UV-8534206290	ASSY. TRANSM. CASE Incl. Items 02 -11	
	02			1	UV-8534206289	ASSY. - Suction Tube	
	03			1	UV-8536H42	CLIP - Part of Item 2	
	04			1	UV-8534205097	O RING - Suction Tube Assy.	
	05			1	UV-853234157	TUBE - Low Speed Pressure	
	06			2	UV-853222067	SLEEVE - Clutch Pressure Tube	
	07			1	UV-8534205588	TUBE - Lube	
	08			1	UV-853221871	SLEEVE - Tube	
	09			1	UV-8534206341	SPACER - Tube Clip	
	10			1	UV-8531C752	SCREW - Tube Clip	
	11			1	UV-8534E7	LOCKWASHER - Tube Clip Screw	
	12			2	UV-85347K5	PLUG - Incl. Item 13	
	13			2	UV-85391F5	O RING - Plug - Part of Item 12	
	14			1	UV-85347K6	PLUG - Incl. Item 15	
	15			1	UV-85391F6	O RING - Plug - Part of Item 14	
	16			1	UV-8534206293	ASSY. - Rear Cover & Plug - Including Item 17	
	17			1	UV-85347K5	PLUG - Incl. Item 18	
	18			1	UV-85391F5	O RING - Plug - Part of Item 17	
	19			2	UV-8534203907	PIN - Trans Case to Rear Cover Dowel	
	20			20	UV-85317C728	SCREW - Rear Cover to Trans. Case	
	21			20	UV-8534E7	LOCKWASHER - Rear Cover to Case Screw	
	22			3	UV-85360K40026	O RING - Clutch Pressure Tube	
	23			2	UV-85360K30018	O RING - Clutch Pressure	
	24			1	UV-8534206294	GASKET - Trans. Case to Rear Cover	
	25			2	UV-853215757	PLUG - Magnetic Drain	
	26			1	UV-853244365	DIPSTICK	
	27			1	UV-853244366	ASSY. - Dipstick Tube	
	28			1	UV-8534206296	ASSY. - Low Shaft Bearing Cap - Incl. Item 29	
	29			1	UV-85347K5	PLUG - Incl. Item 30	
	30			1	UV-85391F5	O RING - Plug - Part of Item 29	
	31			1	UV-8534202489	PLUG - Speed Sensor Port	
	32			1	UV-8534203422	O RING - Speed Sensor Port Plug	
	33			1	UV-8533GM612	SCREW - Speed Sensor Port Plug	
	34			1	UV-85311F16	PLUG - Drain Back Hole	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION INPUT SHAFT AND FRONT COVER
ASSEMBLY

DATE: 08.11.05
REV: SIXTEEN



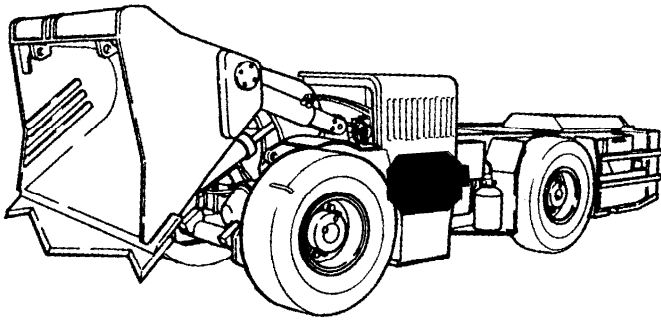
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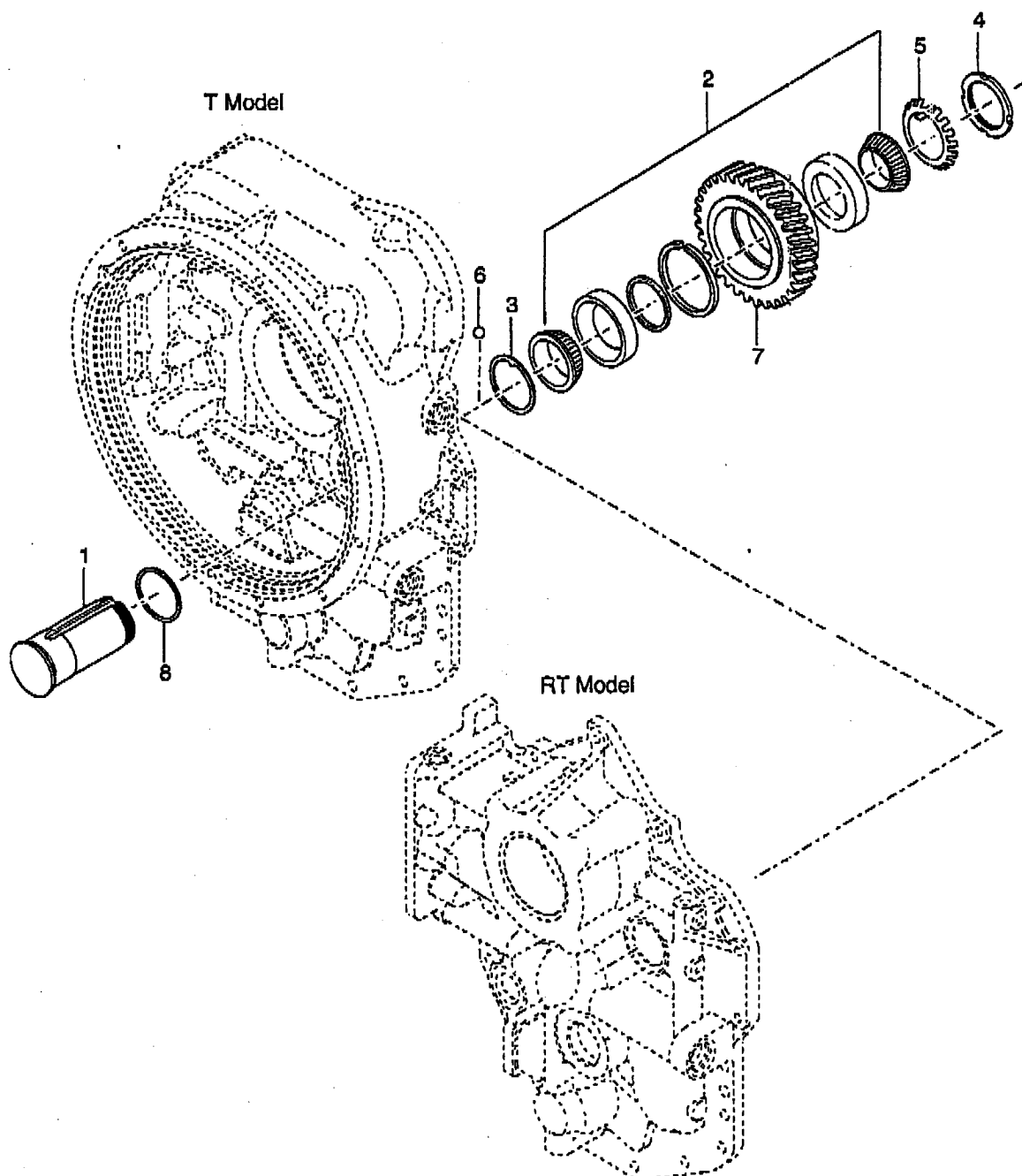
DATE: 08.11.05 REV: SIXTEEN		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TRANSMISSION INPUT SHAFT AND FRONT COVER ASSEMBLY					Pg 081
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3430	00			1		TRANSMISSION INPUT SHAFT AND FRONT COVER ASSEMBLY	
	01			1	UV-8534205765	INPUT SHAFT, HUB & RET. RING ASSY. - Incl. Item 2	
	02			1	UV-853240617	RING - Retaining - Part of Item 1	
	03			1	UV-853247348	BEARING - Input Shaft Front	
	04			1	UV-853237384	WASHER - Rear Bearing	
	05			1	UV-853232081	SNAP RING - Rear Bearing	
	06			1	UV-853225596	BEARING - Input Shaft Rear	
	07			1	UV-8534207145	PLATE - Input Shaft Rear Bearing Retainer	
	08			6	UV-853241308	SCREW - Bearing Retainer Plate	
	09			1	UV-853231798	SEAL - Input Flange Oil	
	10			1	UV-85360K40112	O RING - Input Flange	
	11			1	UV-853102745	WASHER - Flange	
	12			1	UV-853216058	NUT - Input Flange	
	13			1	UV-8534206471	COVER - Front	
	14			1	UV-8534205578	GASKET - Front Cover to Transmission Case	
	15			1	UV-8534203907	PIN - Front Cover Dowel	
	16			1	UV-853238535	AIR - Breather	
	17			1	UV-853219370	PLUG - Front Cover	
	18			1	UV-853219373	GASKET - Front Cover Plug	
	19			1	UV-85347K5	PLUG - Incl. Item 20	
	20			1	UV-85391F5	O RING - Plug - Part of Item 19	
	21			2	UV-85347K6	PLUG - Incl. Item 22	
	22			2	UV-85391F6	O RING - Plug - Part of Item 21	
	23			16	UV-85317C720	SCREW - Front Cover to Case	
	24			16	UV-8534E7	LOCKWASHER - Front Cover to Case Screw	
	25			1	UV-853234265	SLEEVE - Front Cover	
	26			1		RING - Rear Bearing Retaining - Part of Item 6	
	27			1	UV-85389F3	FITTING - Connector Male Pipe	
	28			1	UV-85383F3	FITTING - Elbow 90 Deg. Male Pipe	
	29			1	UV-853243410	TUBE - Lube	
	30			1	UV-85347K8	PLUG - Incl. Item 31	
	31			1	UV-85391F8	O RING - Plug - Part of Item 30	
	32			1	UV-8534200046	FLANGE, Input	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION REVERSE IDLER ASSEMBLY

DATE: 08.11.05
REV: SIXTEEN



P I
3440 00



DATE: 08.11.05
REV: SIXTEEN

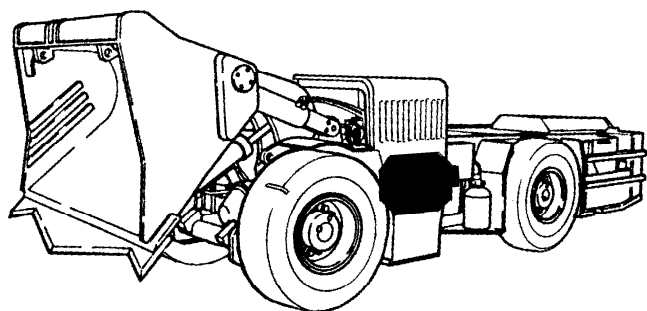
**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION REVERSE IDLER ASSEMBLY**

Pg 082

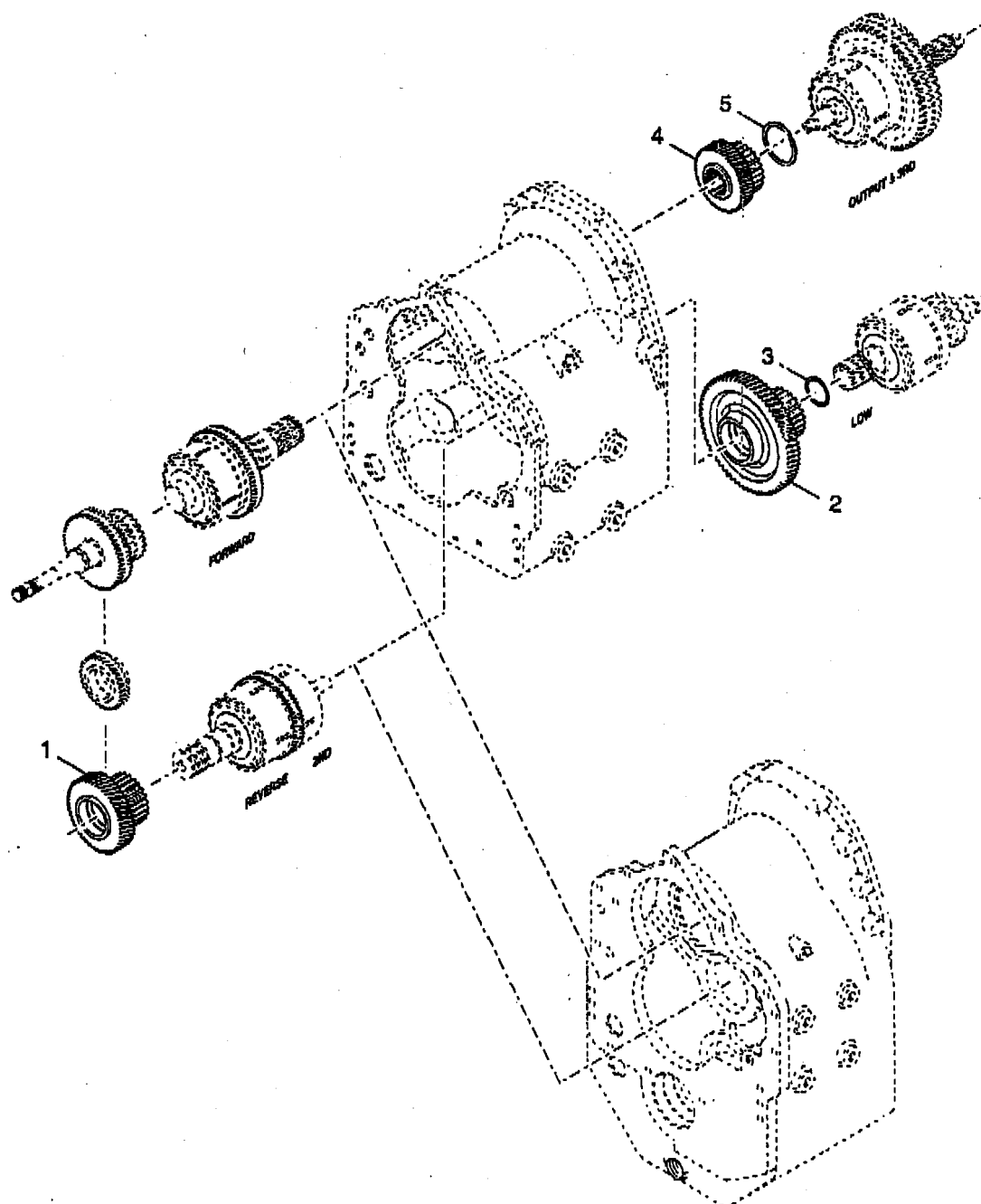
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3440	00			1		TRANSMISSION REVERSE IDLER ASSEMBLY	
	01			1	UV-8534205237	SHAFT - Reverse Idler	
	02			1	UV-853247664	ASSY. - Reverse Idler Gear Bearing	
	03			1	UV-8534205134	WASHER	
	04			1	UV-85324H9	NUT - Bearing Retainer	
	05			1	UV-85326H9	WASHER - Bearing Retainer	
	06			1	UV-85310J10	LOCKBALL - Idler Shaft	
	07			1	UV-8534205179	GEAR - Reverse Idler	
	08			1	UV-85376K223	O RING - Idler Shaft	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
GEAR GROUP

DATE: 08.11.05
REV: SIXTEEN



P I
3450 00



DATE: 08.11.05
REV: SIXTEEN

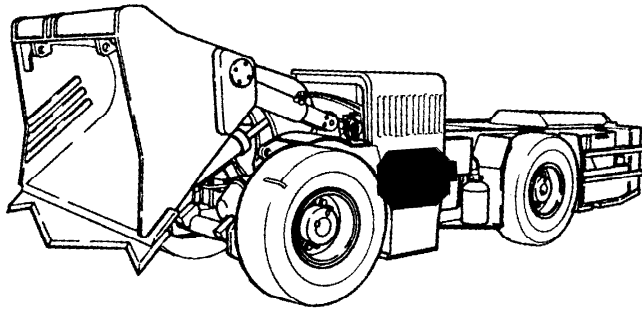
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
GEAR GROUP

Pg 083

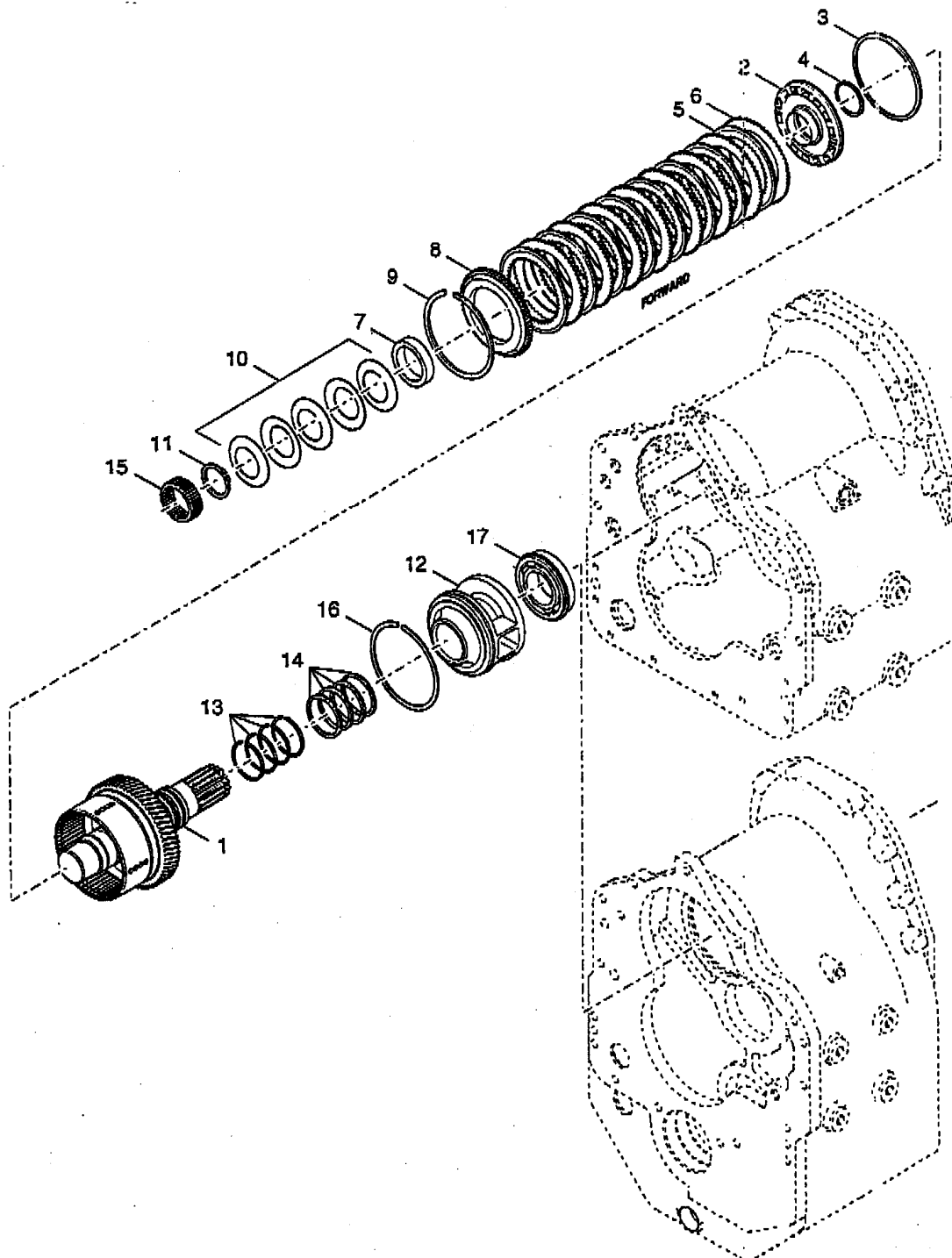
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3440	00			1		GEAR GROUP	
	01			1	UV-8534205115	GEAR - Reverse Clutch	
	02			1	UV-853241145	ASY. - Low Clutch Gear - Including Item 3	
	03			1	UV-854240617	RING - Retaining - Part of Item 2	
	04			1	UV-853240710	ASSY. - 3rd Clutch Gear - Including Item 5	
	05			1	UV-853240617	RING - Retaining - Part of Item 4	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION FORWARD SHAFT ASSEMBLY

DATE: 08.11.05
REV: SIXTEEN



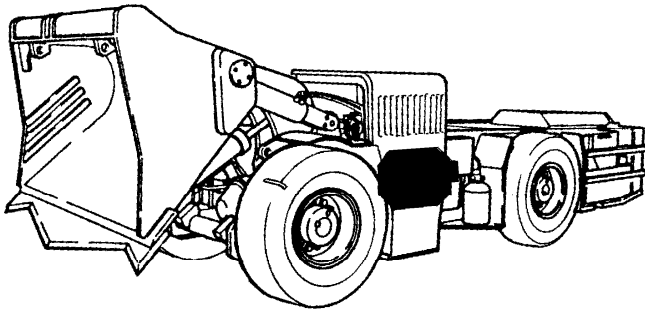
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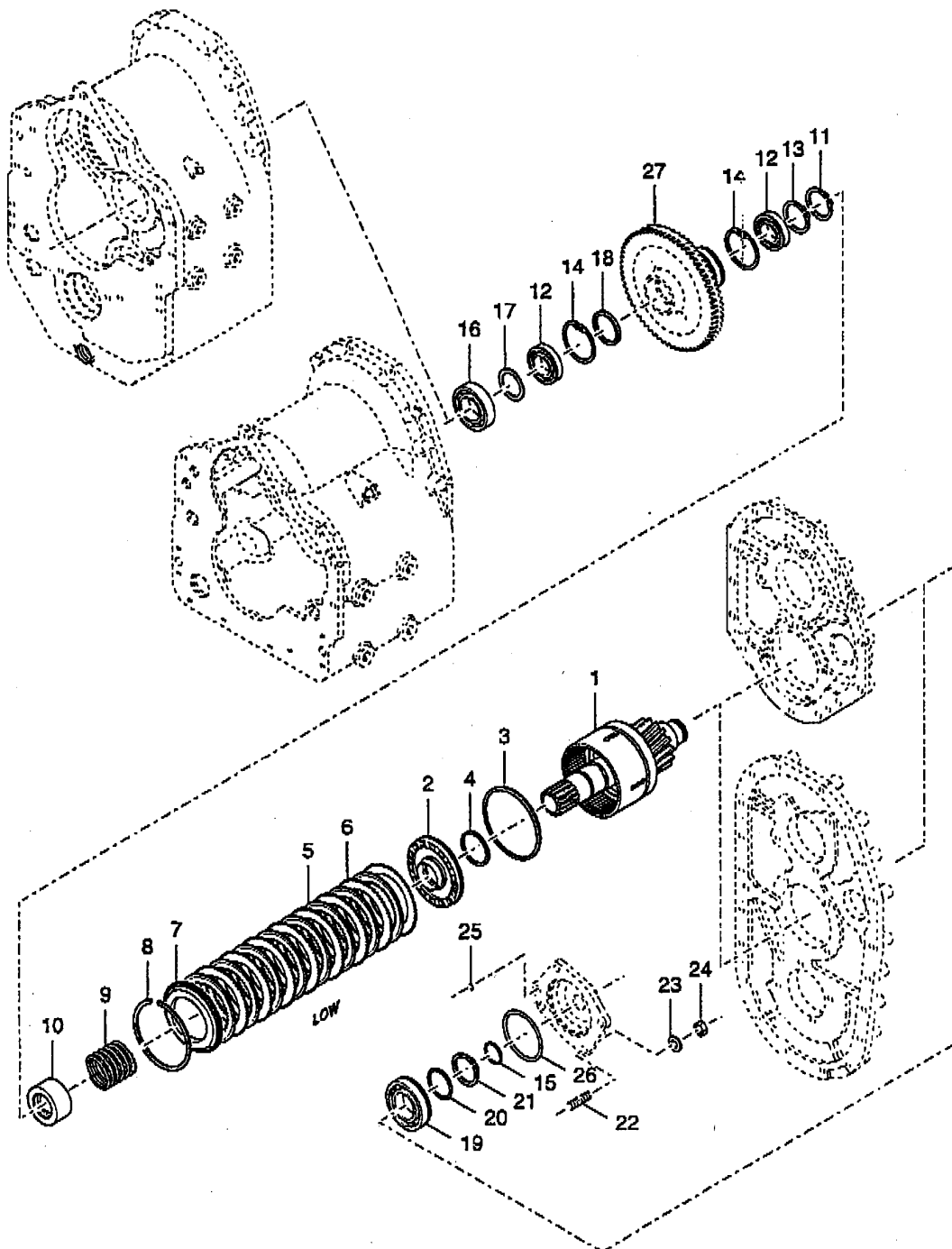
DATE: 08.11.05 REV: SIXTEEN		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TRANSMISSION FORWARD SHAFT ASSEMBLY					Pg 083A
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3450	00			1		TRANSMISSION FORWARD SHAFT ASSEMBLY	
	01			1	UV-8534206311	ASSY. - Forward Shaft, Drum & Plug	
	02			1	UV-8534204050	ASSY. - Clutch Piston and Seals - Incl. Item 3 & 4	
	03			1	UV-853237032	SEAL - Clutch Piston - Outer - Part of Item 2	
	04			1	UV-853234113	SEAL - Clutch Piston - Inner - Part of Item 2	
	05			8	UV-853237016	DISC - Clutch Inner	
	06			8	UV-853234109	DISC - Clutch Outer	
	07			1	UV-853237442	SPACER - Piston Return Spring	
	08			1	UV-853236847	PLATE - Clutch Disc Backing	
	09			1	UV-853234111	SNAP RING - Backing Plate	
	10			1	UV-853247656	ASSY. - Disc Spring - Incl. 5 Washers	
	11			1	UV-853237669	SNAP RING - Spring Retaining	
	12			1	UV-853241037	SLEEVE - Piston Ring	
	13			4	UV-853237378	SPRING - Piston Ring Expander	
	14			4	UV-853242651	RING - Forward Shaft Piston	
	15			1	UV-853235763	BEARING - Forward Shaft Front	
	16			1	UV-853235764	RING - Sleeve Retaining	
	17			1	UV-853241819	BEARING - Forward Shaft Rear	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION LOW SPEED SHAFT GROUP

DATE: 08.11.05
REV: SIXTEEN



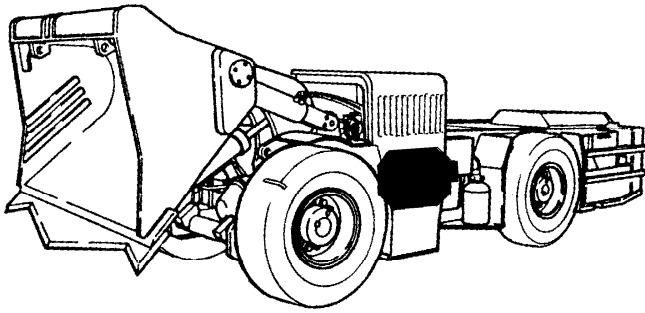
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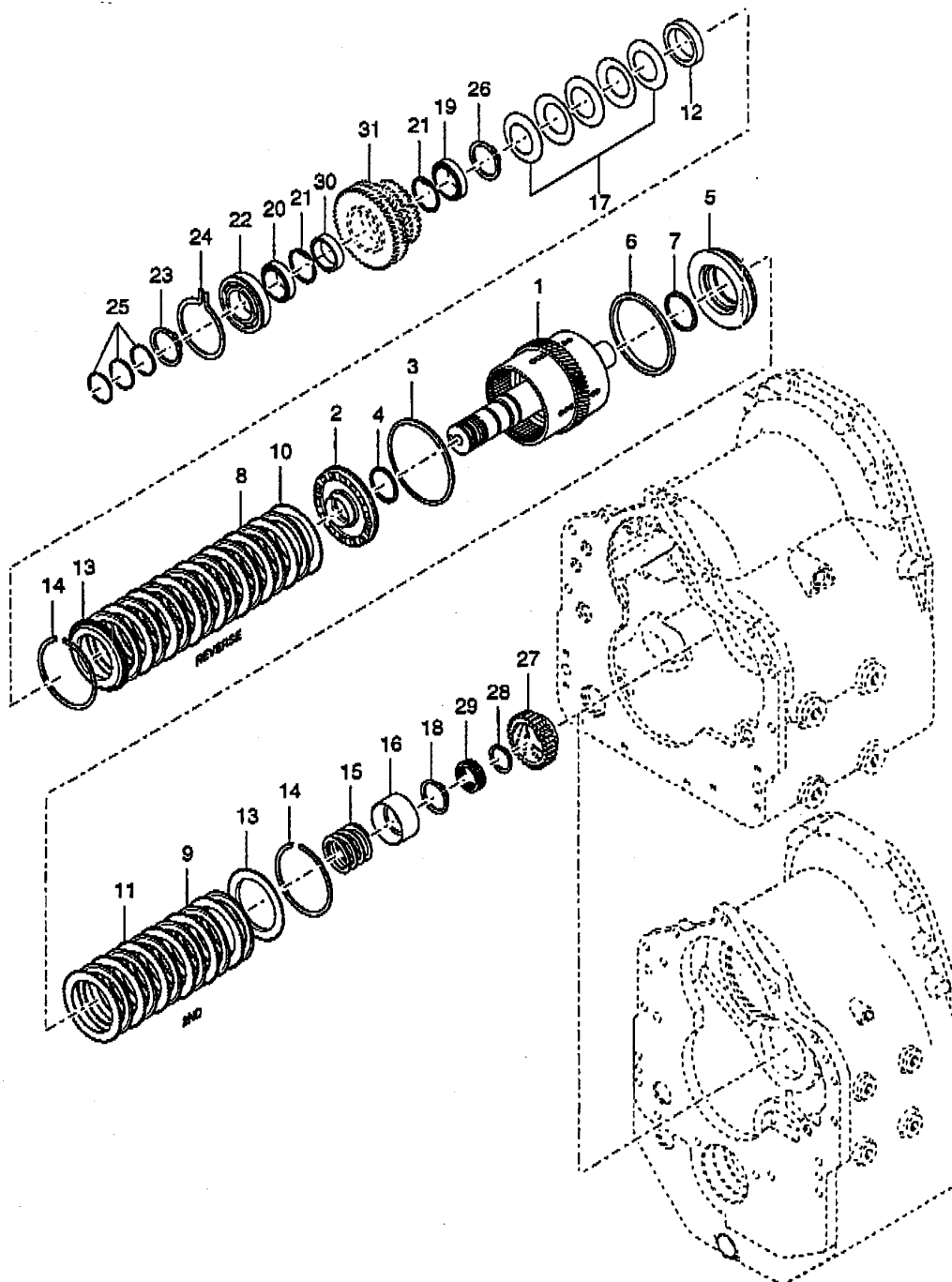
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Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3460	00			1		TRANSMISSION LOW SPEED SHAFT GROUP	
	01			1	UV-853236154	ASSY. - Low Shaft, Hub, Drum & Bleed Valve	
	02			1	UV-8534204050	ASSY. - Clutch Piston and Seals - Incl. Items 3 & 4	
	03			1	UV-853237032	SEAL - Clutch Piston - Outer - Part of Item 2	
	04			1	UV-853234113	SEAL - Clutch Piston - Inner - Part of Item 2	
	05			8	UV-853234336	DISC - Clutch Inner	
	06			8	UV-853234109	DISC - Clutch Outer	
	07			1	UV-853236847	PLATE - Clutch Disc Backing	
	08			1	UV-853234111	RING - Backing Plate Retaining	
	09			1	UV-853235960	SPRING - Piston Return	
	10			1	UV-853235959	RETAINER - Spring	
	11			1	UV-853234350	SNAP RING - Spring Retainer	
	12			2	UV-853230885	BEARING - Low Speed Gear	
	13			1	UV-853234347	RING - Low Speed Gear Bearing Retainer	
	14			2	UV-853223964	RING - Low Speed Gear Bearing Locating	
	15			1	UV-853234130	RING - Low Shaft Piston	
	16			1	UV-853225605	BEARING - Low Speed Shaft Front	
	17			1	UV-853234145	SPACER - Low Speed Shaft Front Bearing	
	18			1	UV-853234305	SPACER - Low Speed Gear	
	19			1	UV-853239741	BEARING - Low Speed Shaft Rear	
	20			1	UV-853234230	WASHER - Rear Bearing Support	
	21			1	UV-853234347	RING - Rear Bearing Retainer	
	22			4	UV-853247988	STUD - Bearing Cap	
	23			4	UV-8534E7	LOCKWASHER - Bearing Cap Stud	
	24			4	UV-85362D7	NUT - Bearing Cap Stud	
	25			1	UV-85360K30012	O RING - Rear Bearing Cap	
	26			1	UV-85360K40420	O RING - Rear Bearing Cap	
	27					GEAR - Low Clutch - SEE GEAR GROUP	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION REVERSE AND 2ND SHAFT
GROUP

DATE: 08.11.05
REV: SIXTEEN



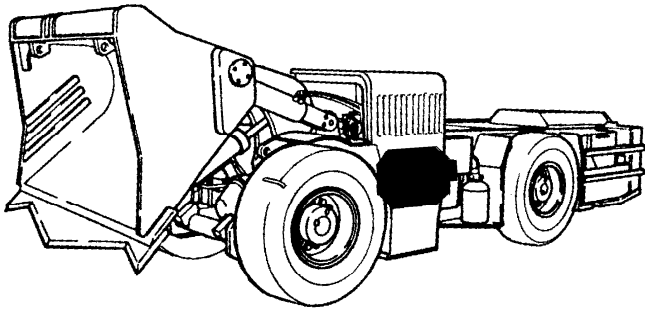
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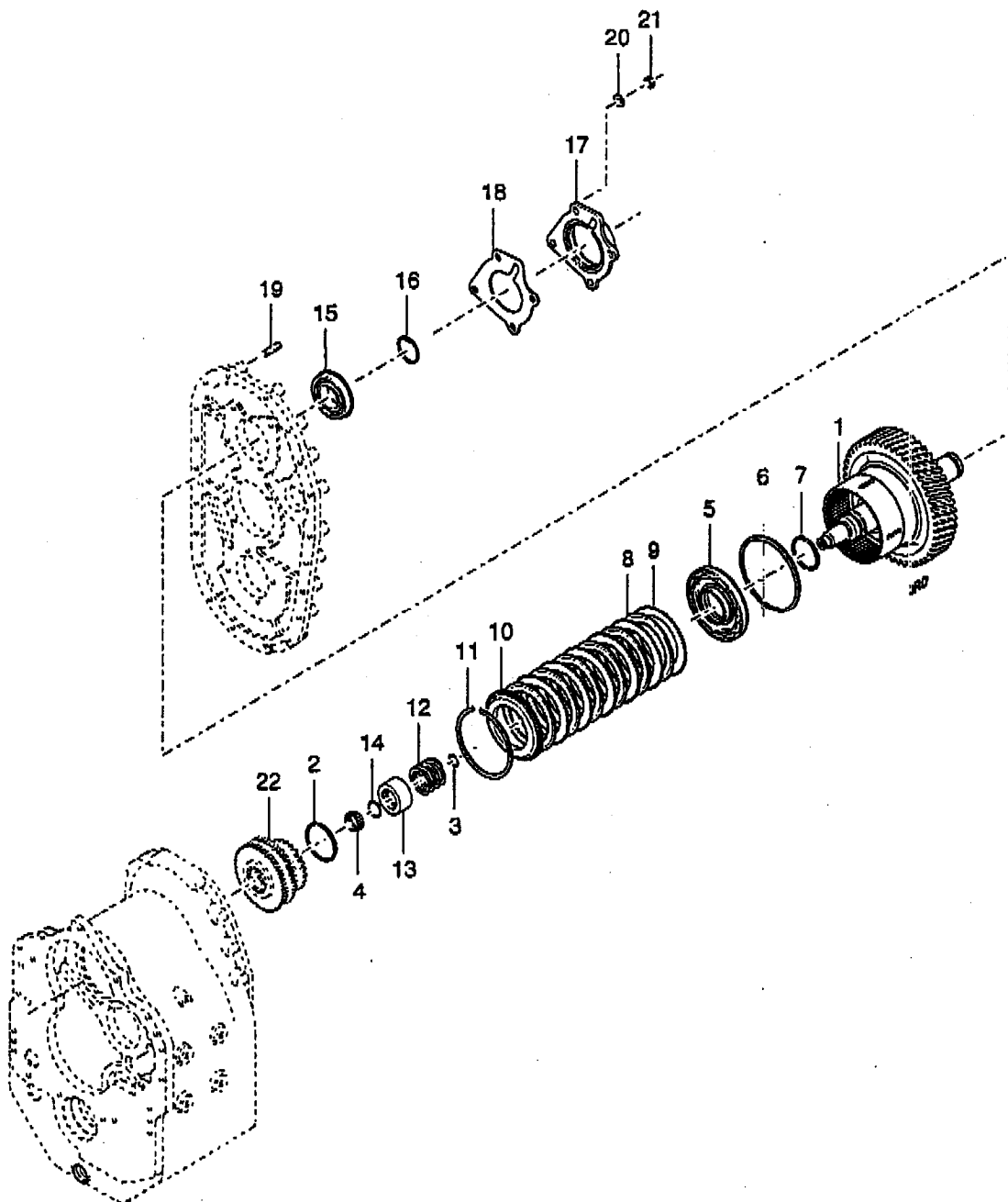
DATE: 08.11.05 REV: SIXTEEN		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TRANSMISSION REVERSE AND 2ND SHAFT GROUP					Pg 085
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3470	00			1		TRANSMISSION REVERSE AND 2ND SHAFT GROUP	
	01			1	UV-8534207252	ASSY. - Rev. & 2nd Shaft, Drum & Plug	
	02			1	UV-8534204050	ASSY. - Clutch Piston and Seals- Incl. Items 3 & 4	
	03			1	UV-853237032	SEAL - Clutch Piston - Outer - Part of Item 2	
	04			1	UV-853234113	SEAL - Clutch Piston - Inner - Part of Item 2	
	05			1	UV-8534204046	ASSY. - Clutch Piston & Seals - Incl. Items 6 & 7	
	06			1	UV-853237032	SEAL - Clutch Piston - Outer - Part of Item 5	
	07			1	UV-853234113	SEAL - Clutch Piston - Inner - Part of Item 5	
	08			8	UV-853237016	DISC - Clutch Inner	
	09			6	UV-853237016	DISC - Clutch Inner	
	10			8	UV-853234109	DISC - Clutch Outer	
	11			6	UV-853234109	DISC - Clutch Outer	
	12			1	UV-853237442	SPACER - Piston Return Spring	
	13			2	UV-853236847	PLATE - Clutch Disc Backing	
	14			2	UV-853234111	SNAP RING - Backing Plate	
	15			1	UV-853235960	SPRING - Piston Return	
	16			1	UV-853235959	RETAINER - Spring	
	17			1	UV-853247656	ASSY. - Disc Spring - Incl. 5 Washers	
	18			1	UV-853234350	SNAP RING - Spring Retainer	
	19			1	UV-853230829	BEARING - Clutch Driven Gear	
	20			1	UV-853233389	BEARING - Clutch Driven Gear	
	21			2	UV-853234141	RING - Rev. Clutch Gear Bearing	
	22			1	UV-853223349	BEARING - Ball	
	23			1	UV-853247949	RING - Front Bearing Retaining	
	24			1	UV-853230889	SNAP RING - Front Bearing	
	25			3	UV-853249779	RING - Piston	
	26			1	UV-853237669	SNAP RING - Spring Retaining	
	27			1	UV-8534203199	HUB - 2nd Clutch	
	28			1	UV-853234347	RING - 2nd Clutch Disc Hub Retaining	
	29			1	UV-853233065	BEARING - Needle	
	30			1	UV-8534205141	SPACER - Reverse Clutch Gear	
	31					GEAR - Reverse Clutch - SEE GEAR GROUP	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION 3RD SHAFT GROUP

DATE: 08.11.05
REV: SIXTEEN



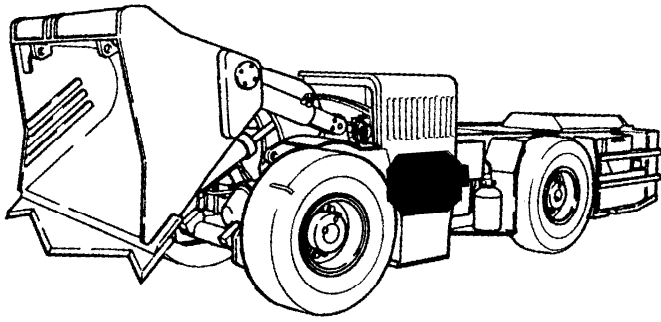
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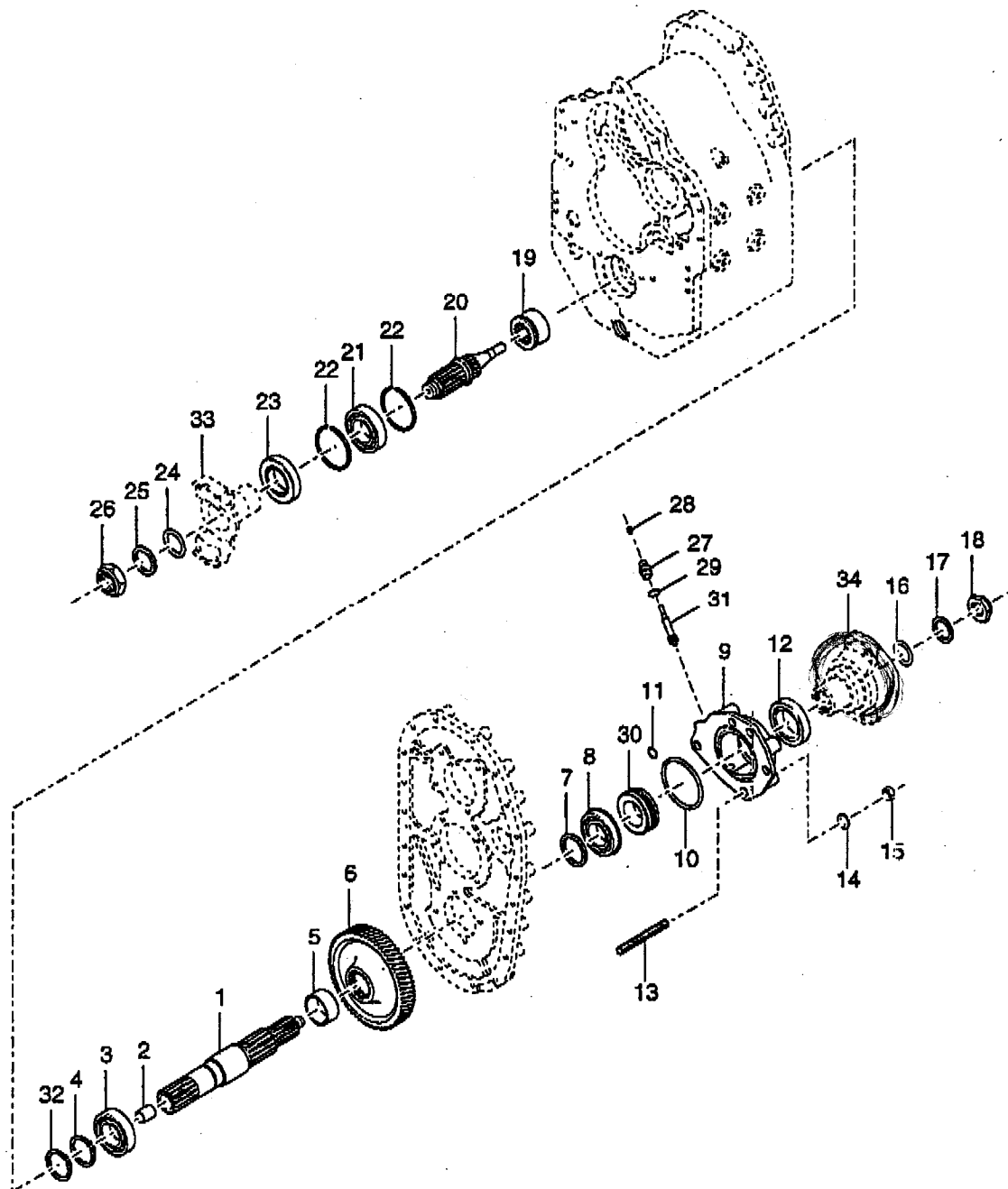
DATE: 08.11.05 REV: SIXTEEN		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TRANSMISSION 3RD SHAFT GROUP					Pg 086
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3480	00			1		TRANSMISSION 3RD SHAFT GROUP	
	01			1	UV-853244378	ASSY. - 3rd Clutch Shaft & Drum	
	02			1	UV-853238034	RING - 3rd Clutch Gear Retainer	
	03			1	UV-853234130	RING - 3rd Shaft Piston	
	04			1	UV-853234132	BEARING - 3rd Shaft Pilot	
	05			1	UV-8534204046	ASSY. - Clutch Piston & Seals - Incl. Item 6 & 7	
	06			1	UV-853237032	SEAL - Clutch Piston Outer - Part of Item 5	
	07			1	UV-853234113	SEAL - Clutch Piston Inner - Part of Item 7	
	08			6	UV-853237016	DISC - Clutch Inner	
	09			6	UV-853234109	DISC - Clutch Outer	
	10			1	UV-853236847	PLATE - Clutch Disc Backing	
	11			1	UV-853234111	RING - Backing Plate Retaining	
	12			1	UV-853235960	SPRING - Piston Return	
	13			1	UV-853235959	RETAINER - Spring	
	14			1	UV-853234350	SNAP RING - Spring Retainer	
	15			1	UV-853225602	BEARING - Output Shaft Rear	
	16			1	UV-853247949	RING - 3rd Shaft Rear Bearing Retaining	
	17			1	UV-853240300	CAP - 3rd Shaft Rear Bearing	
	18			1	UV-853240299	GASKET - 3rd Shaft Bearing Cap	
	19			4	UV-853231728	STUD - Rear Bearing Cap	
	20			4	UV-8534E6	LOCKWASHER - Rear Bearing Cap Stud	
	21			4	UV-85362D6	NUT - Rear Bearing Cap Stud	
	22					GEAR - 3rd Clutch - SEE GEAR GROUP	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION OUTPUT SHAFT ASSEMBLY

DATE: 08.11.05
REV: SIXTEEN



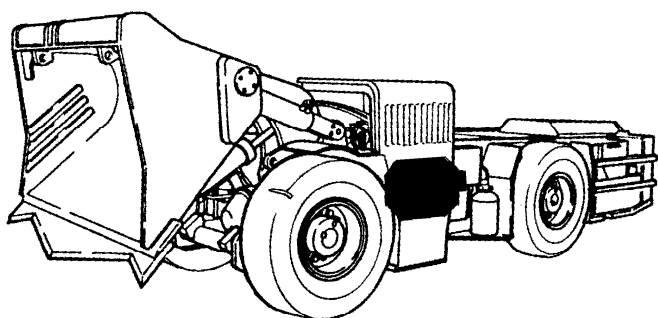
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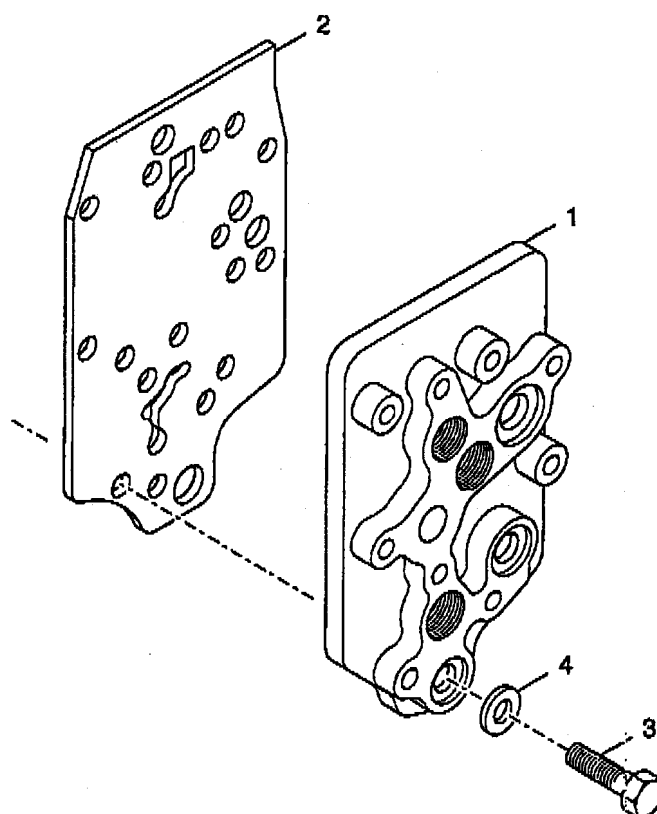
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TRANSMISSION OUTPUT SHAFT ASSEMBLY					Pg 087
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3490	00			1		TRANSMISSION OUTPUT SHAFT ASSEMBLY	
	01			1	UV-853244376	ASSY. - Output Shaft & Bushing - Incl. Item 2	
	02			1	UV-853225408	BUSHING - Part of Item 1	
	03			1	UV-853225605	BEARING - Output Shaft Front	
	04			1	UV-853231776	RING - Bearing Retainer	
	05			1	UV-853235910	SPACER - Output Shaft Gear	
	06			1	UV-853244369	GEAR - Output Shaft	
	07			1	UV-853237841	SPACER - Output Shaft	
	08			1	UV-853225602	BEARING - Output Shaft Rear	
	09			1	UV-853236677	CAP - Output Shaft Rear Bearing	
	10			1	UV-85360K40328	O RING - Output Shaft Bearing Cap	
	11			1	UV-85360K30022	O RING - Output Shaft Bearing Cap	
	12			1	UV-853235751	SEAL - Rear Bearing Cap Oil	
	13			4	UV-853238903	STUD - Rear Bearing Cap	
	14			4	UV-8534E9	LOCKWASHER - Rear Bearing Cap Stud	
	15			4	UV-85362D9	NUT - Rear Bearing Cap Stud	
	16			1	UV-85360K40112	O RING - Flange	
	17			1	UV-853102745	WASHER - Flange	
	18			1	UV-853216058	NUT - Flange	
	19			1	UV-853244699	HUB - Disconnect Shift	
	20			1	UV-853237256	SHAFT - Disconnect	
	21			1	UV-853225825	BEARING - Disconnect Shaft	
	22			2	UV-853223901	RING - Bearing Retaining	
	23			1	UV-853230954	OIL SEAL	
	24			1	UV-85360K60116	O RING - Flange	
	25			1	UV-853222179	WASHER - Flange	
	26			1	UV-853222960	NUT - Flange	
	27			1	UV-853236678	NUT - Speedo Tube	
	28			1	UV-853241894	SEAL - Speedo Oil	
	29			1	UV-85391F8	O RING - Speedo Oil	
	30			1	UV-853236685	GEAR - Speedo Drive	
	31			1	UV-853236683	GEAR - Speedo Driven Gear	
	32			1	UV-853231776	RING - Retaining	
	33				UV-8534200030	FLANGE - Front	
	34				UV-853237667	FLANGE - Rear	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION ADAPTOR PLATE ASSEMBLY

DATE: 08.11.05
REV: SIXTEEN



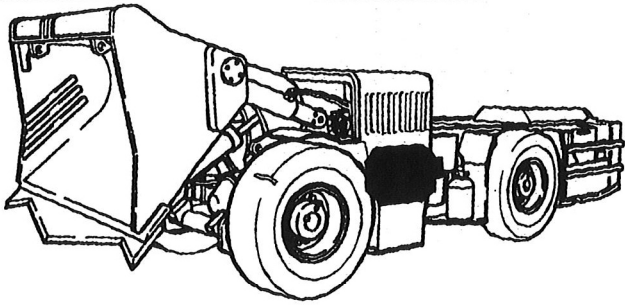
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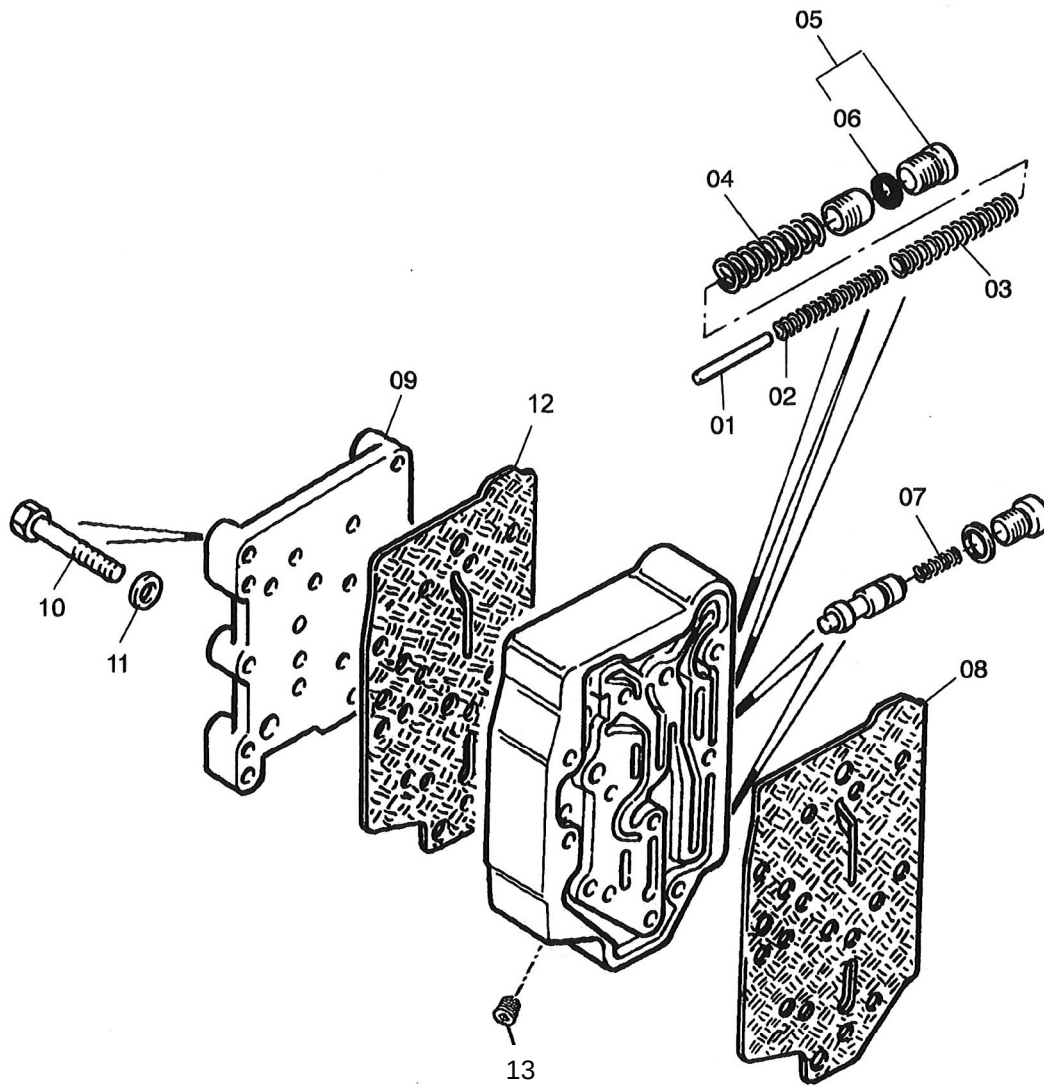
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Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3510	00			1	UV-853266847	TRANSMISSION ADAPTOR PLATE GROUP	
	01			1	UV-853237666	PLATE - Control Valve Adaptor	
	02			1	UV-853247614	GASKET - Control Valve to Housing	
	03			9	UV-8531C626	SCREW - Adaptor Plate Mounting	
	04			9	UV-8534E6	LOCKWASHER - Adaptor Plate Mounting Screw	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
TRANSMISSION MODULATOR VALVE ASSEMBLY

DATE: 22.05.2012
REV: SIXTY SIX



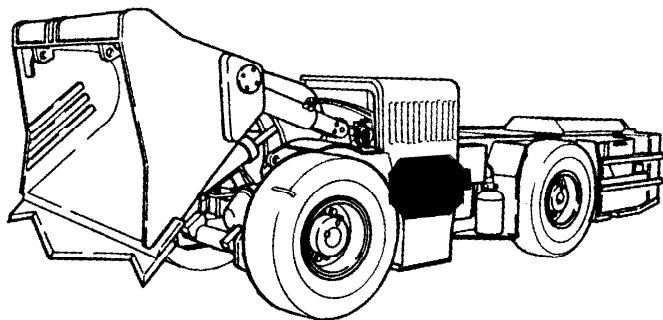
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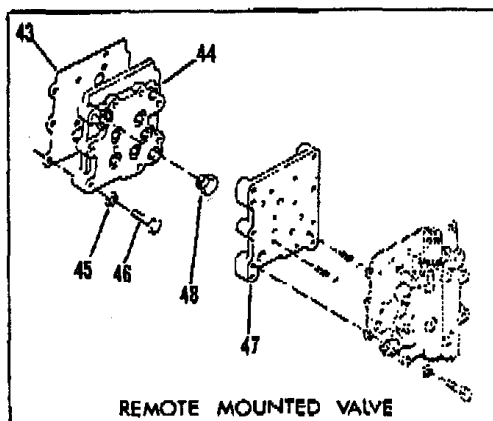
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TRANSMISSION MODULATOR VALVE ASSEMBLY					Pg 088A
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3510	00			1	UV-853237875	TRANSMISSION MODULATOR VALVE ASSEMBLY	
	01			2	UV-853237881	PIN, Accumulator - Stop	
	02			2	UV-853241666	SPRING, Accumulator - Inner	
	03			2	UV-853237879	SPRING, Accumulator - Middle	
	04			2	UV-853237878	SPRING, Accumulator - Outer	
	05			4	UV-853239243	PLUG, Spool - Stop Plug c/w Item 06	
	06			4	UV-85391F7	O-RING, Spool - Stop Plug	
	07			2	UV-853241670	SPRING, Regulator	
	08			1	UV-853234279	GASKET	
	09			1	UV-853231160	PLATE, Connecting - Control Valve	
	10			8	102-6W-34	BOLT, Hex Hd	
	11			8	143-6	WASHER	
	12			1	UV-853247614	GASKET	
	13			1	UV-85340K2	PLUG	

AARD MINING EQUIPMENT **AARD 5.5 LP LOAD HAUL DUMPER** **TRANSMISSION CONTROL VALVE ASSEMBLY GROUP**

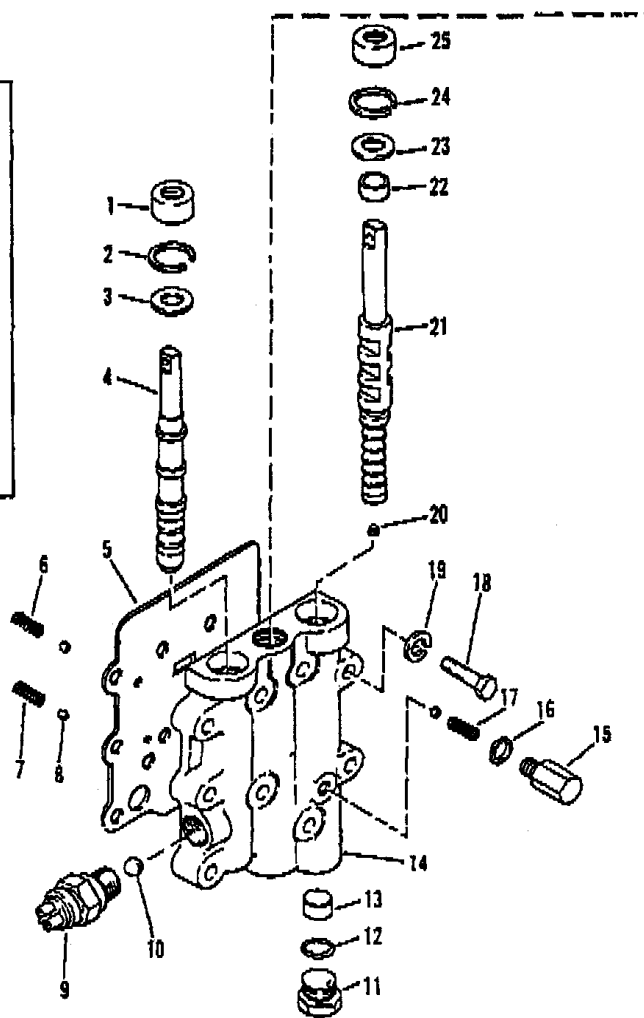
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 REV: SIXTEEN



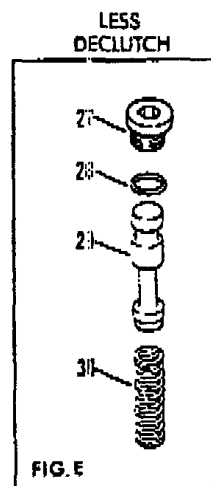
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NOTE:
 Speed selector spacers (items 13 and 22 are not included when the control valve housing assembly (item 14) is ordered.
 When ordering the control valve housing assembly (item 14) from the Service Parts List also order the spacer or spacers listed as items 13 and 22 and the declutch valve, spool and spring needed. **NOTE:** Some valves will require no spacers, some valves will require 1 spacer and some will require 2 spacers.
 See information charted on opposite page.
 Refer to Service Parts List for correct spacers and declutch valves to be ordered.



**CONTROL VALVE ASSEMBLY
 (HYDRAULIC DECLUTCH)**

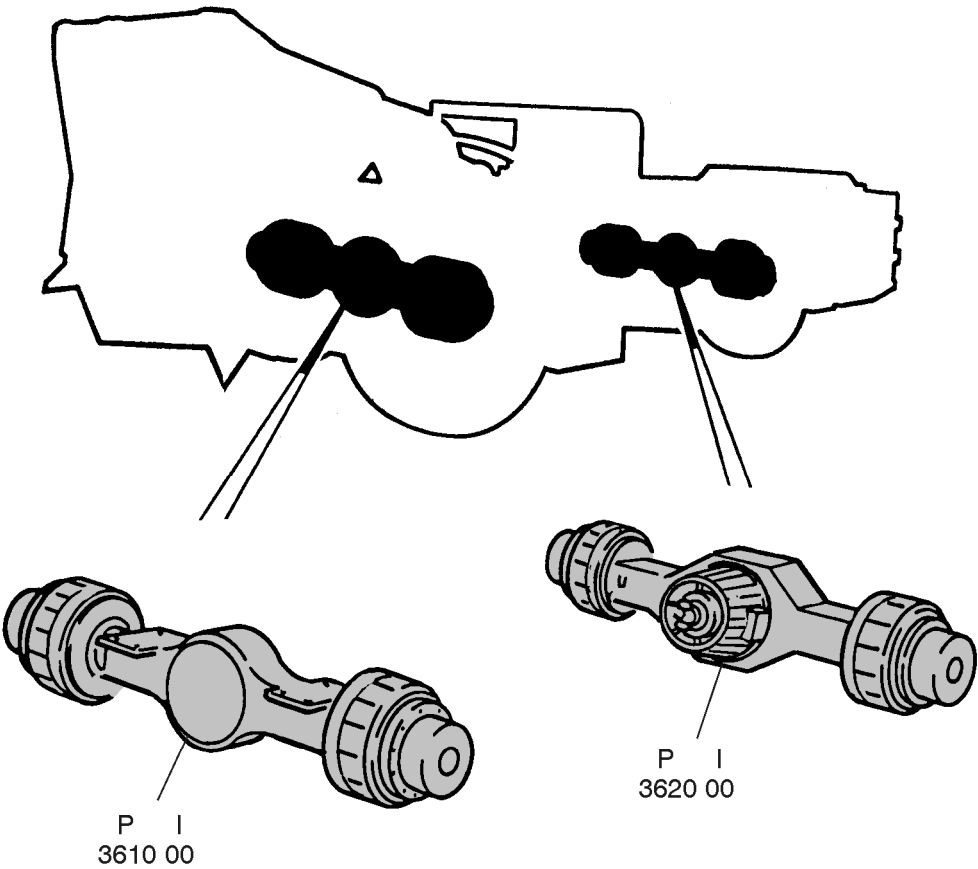


DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER TRANSMISSION CONTROL VALVE ASSEMBLY GROUP					Pg 089
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3520	00			1	UV-853235819	TRANSMISSION CONTROL VALVE ASSEMBLY GROUP	
	01			1	UV-853234651	OIL SEAL - Valve Spool	
	02			1	UV-853247475	RETAINING RING - Valve Spool Oil Seal	
	03			1	UV-853217657	WASHER - Valve Spool Oil Seal	
	04			1	UV-853231158	SPOOL - Forward & Reverse Valve	
	05			1	UV-853248023	GASKET - Control Valve	
	06			1	UV-853202200	SPRING - Detent	
	07			1	UV-853202200	SPRING - Detent	
	08			3	UV-85310J12	BALL - Detent	
	09			1	UV-853242532	SWITCH - Neutral	
	10			1	UV-85310J12	BALL - Neutral Switch Detent	
	11			1	UV-85324K7	PLUG - Valve Housing - Including Item 12	
	12			1	UV-85391F7	O RING - Valve Housing Plug - Part of Item 11	
	13			1	UV-853231839	SPACER - Overshift	
	14			1	UV-853241636	ASSEMBLY - Control Valve Housing Incl. Items 1 -4 Items 9 - 12 & Items 20,21,23,24 and 25	
	15			1	UV-853235058	PLUG - Detent Spring	
	16			1	UV-853235061	WASHER - Detent Spring Plug	
	17			1	UV-853202200	SPRING - Detent	
	18			9	UV-8531C636	SCREW - Valve to Plate	
	19			9	UV-8534E6	LOCKWASHER - Valve to Plate Screw	
	20			1	UV-853239243	PLUG - Speed Selector Spool - Part of Item 21	
	21			1	UV-853241631	SPOOL - Speed Selector Incl. Item 20	
	22			1	UV-853231840	SPACER - Overshift	
	23			1	UV-853217657	WASHER - Valve Spool Oil Seal	
	24			1	UV-853247475	RETAINING RING - Valve Spool Oil Seal	
	25			1	UV-853234651	OIL SEAL - Valve Spool	
	26						
	27			1	UV-85324K7	PLUG - Stop - Incl. Item 28	
	28			1	UV-85391F7	O RING - Stop Plug - Part of Item 27	
	29			1	UV-853231155	SPOOL - Valve Declutch	
	30			1	UV-853231164	SPRING - Control Valve	
31-42							
	43			1	UV-853247614	GASKET - Control Valve to Housing	
	44			1	UV-853237666	PLATE - Control Valve Adaptor	
	45			9	UV-8534E6	LOCKWASHER - Adaptor Plate Mounting Screw	
	46			9	UV-8531C626	SCREW - Adaptor Plate Mounting	
	47			1	UV-853231160	PLATE - Valve Mounting	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AXLE ASSEMBLY - D81

DATE: 18-02-05
REV: SIX

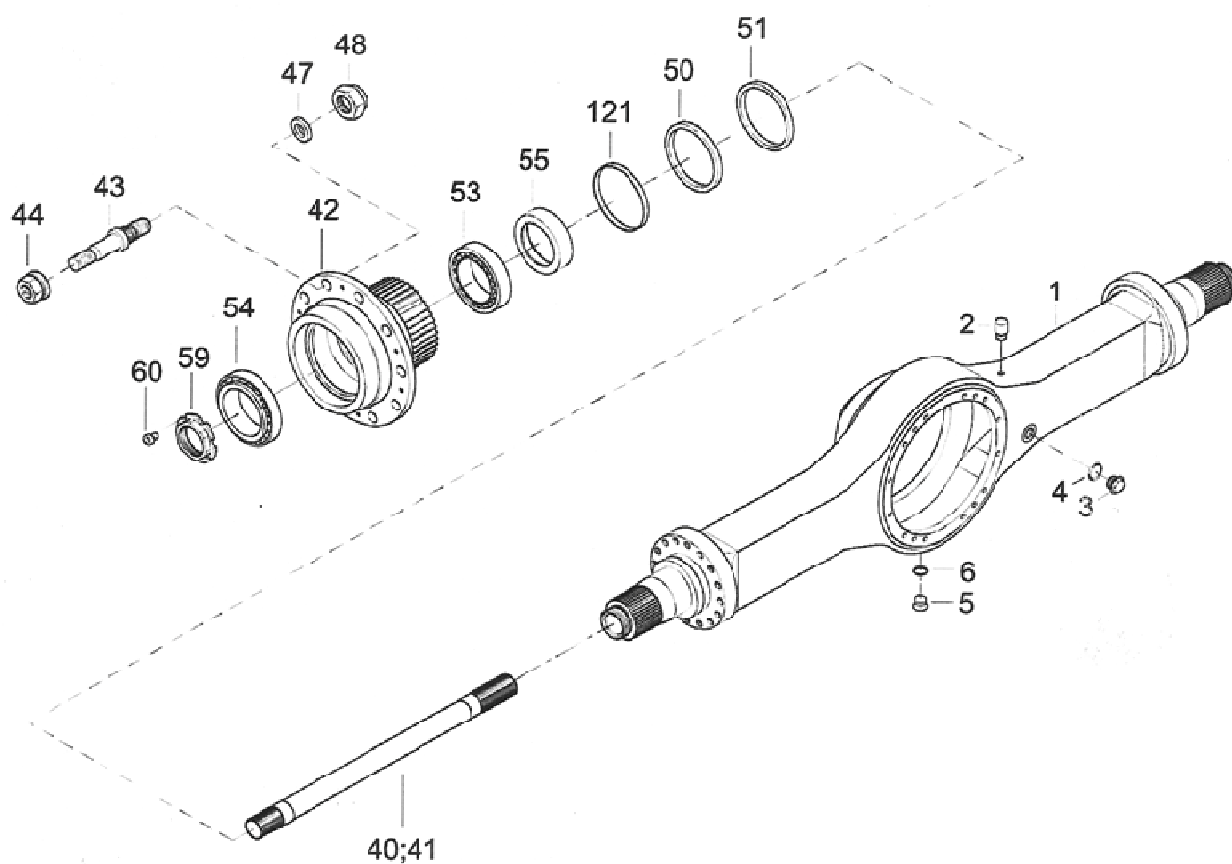
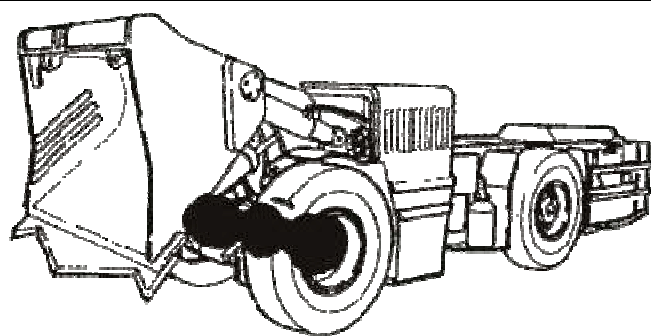
P I
3600 00



DATE: 01.02.2017 REV: HUNDRED & TWENTY ONE		AARD MINING EQUIPMENT AARDMAJOR LOAD HAUL DUMPER AXLE ASSEMBLY - D81					Pg 090
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3600	00			1		AXLE ASSEMBLY	
3610	00		091	1	UV-85000029	AXLE ASSEMBLY - FRONT (NON-SPIN)	
3640	00		095	1	UV-85000031	AXLE ASSEMBLY - REAR (NON-SPIN)	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AXLE ASSEMBLY – FRONT (NON-SPIN) - D81

DATE: 02.07.2014
REV: NINETY
FOUR



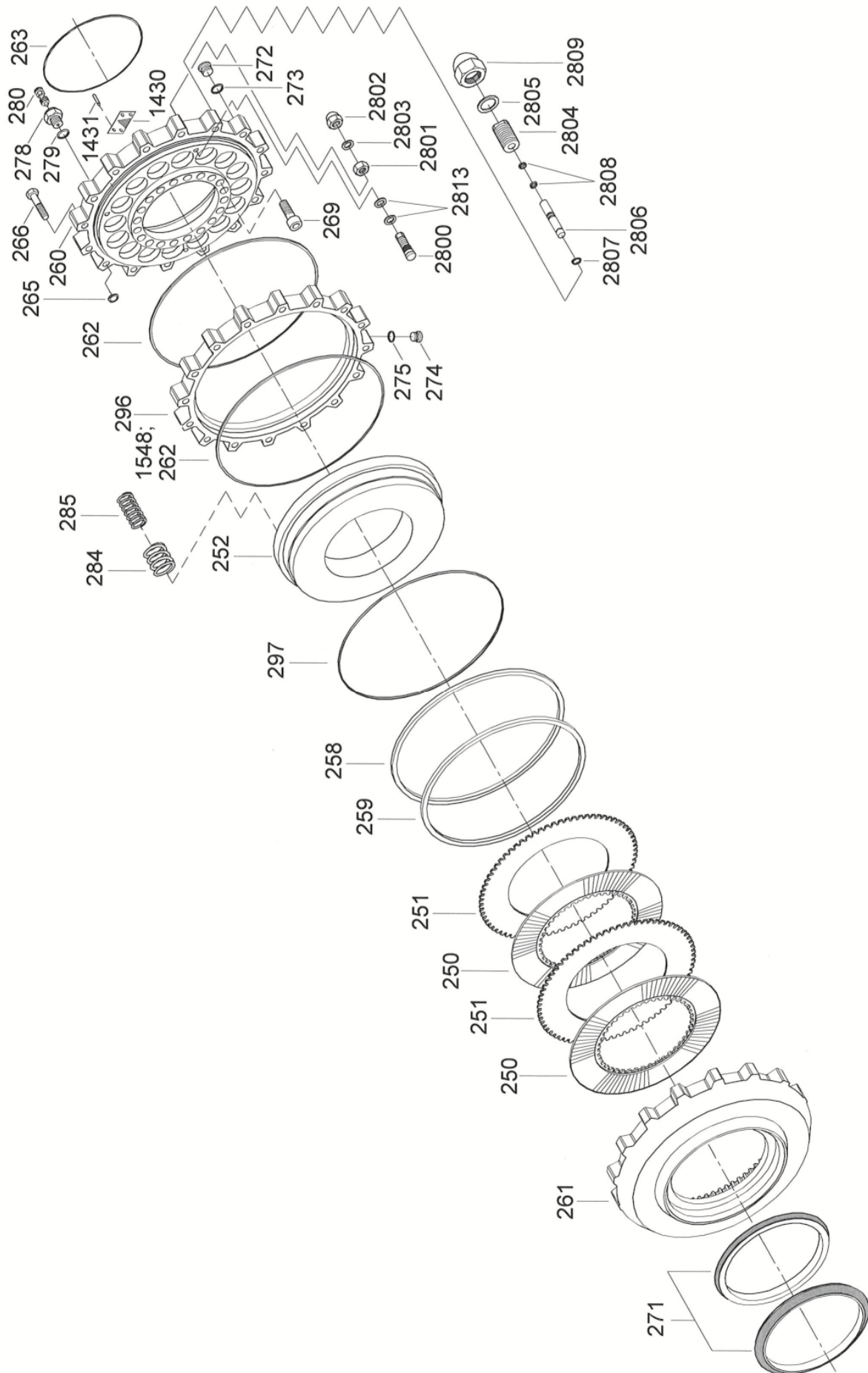
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DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AXLE ASSEMBLY – FRONT (NON-SPIN) - D81					Pg 091
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3610	00			1	UV-85000029	AXLE ASSEMBLY - FRONT (NON-SPIN)	
	01			1	UV-851821099AG	HOUSING, Axle	
	02			1	UV-85110190300	BREATHER	
	03			1	UV-851910N30F5	PLUG, Screw	
	04			1	UV-8517603NA3036	RING, Sealing	
	05			1	UV-851908N16F5M	PLUG, Screw	
	06			1	UV-8517603NA1620	RING, Sealing	
	40			2	UV-851818115P11	SHAFT, Axle	
	42			2	UV-8518193011	HUB, Wheel	
	43			24	9002576	STUD, Wheel	
	44			24	UV-85174361N22F10	NUTS, Wheel	
	47			24	UV-8518190994	DISK	
	48			24	UV-851985N24F28	NUT, Hexagon	
	50			2	UV-851150180L08N	RING, Radial Seal	
	51			2	UV-851150180L08N	RING, Radial Seal	
	53			2	UV-85132024X	BEARING, Tapered Roller	
	54			2	UV-85132028X	BEARING, Tapered Roller	
	55			2	UV-8518161534	RING	
	59			2	UV-851507270113	NUT	
	60			2	UV-851912N10109	SCREW, Hexagon Socket	
	121			2	UV-8518149344	RING	
	135			8	101-M24-1.5-320	BOLT, Hex Head Fine Pitch	
	136			2	102-M10-30	BOLT, Hex HT, M10 x 30	
	137			1	9002719	COVER, Force Cooling Right Side	
	138			1	102-M10-30	BOLT, Hex HT, M10 x 30	
				1	9002720	COVER, Force Cooling Left Side (Not Illustrated)	
				1	UV-91500077	AXLE BRAKE PIPE KIT, Front Axle	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AXLE ASSEMBLY – FRONT (STANDARD) - D81

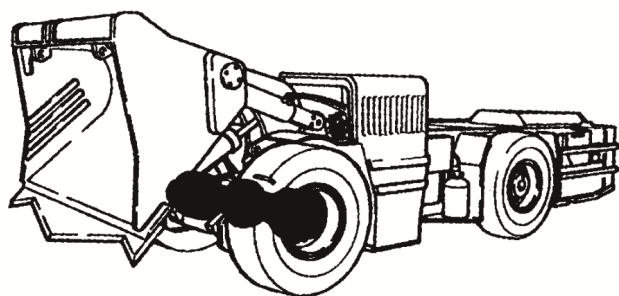
DATE: 02.07.2014
REV: NINETY
FOUR



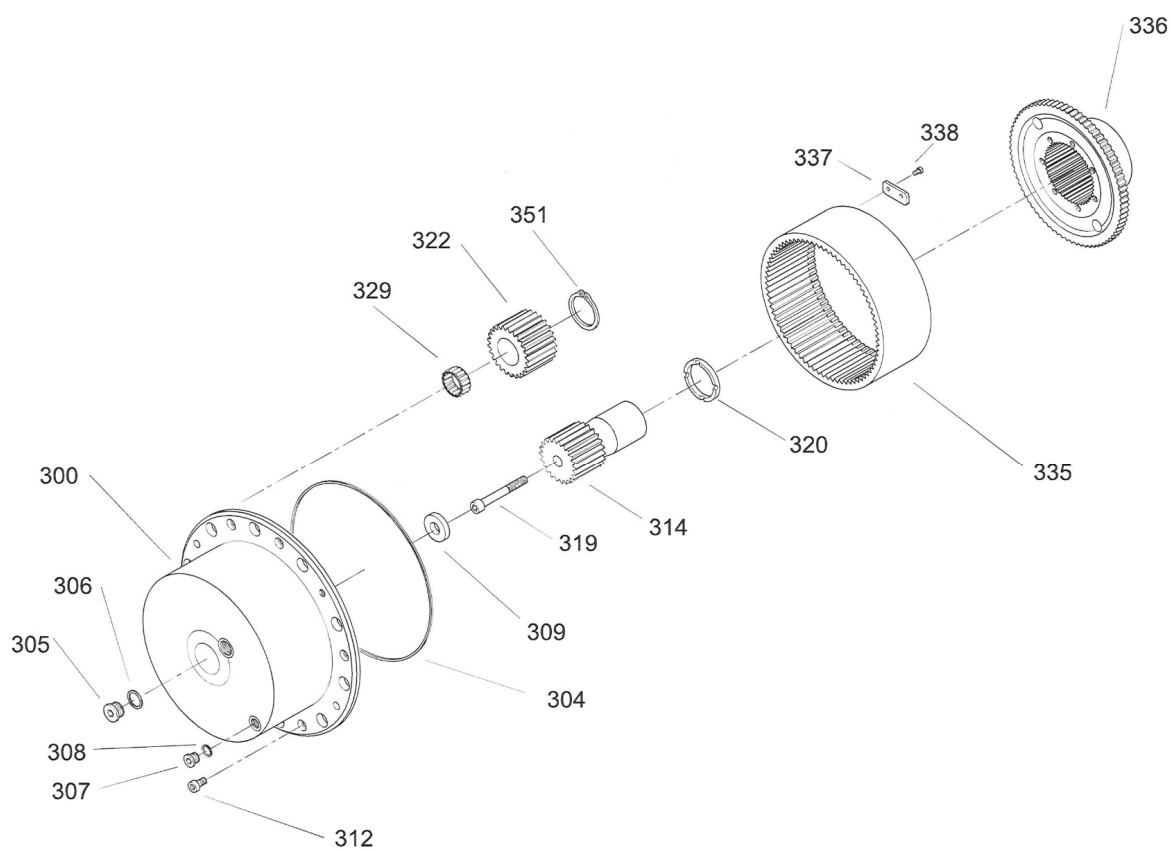
DATE: 22.10.2014 REV: NINETY EIGHT		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AXLE ASSEMBLY – FRONT (NON SPIN) - D81					Pg 092
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3620	00			2	UV-851819779P2	AXLE SPRING LOADED BRAKE ASSEMBLY	
	250			8	UV-851507275673	DISK, Inner	
	251			8	UV-851507275223	DISK, Outer	
	252			2	UV-8515092751792	PISTON	
	258			2	UV-8511050254	GASKET	
	259			2	UV-8511050244	GASKET	
	260			2	UV-8515092753141	BRAKE CARRIER	
	261			2	UV-8515092751771	HOUSING	
	262			4	UV-851O36X3V	O-RING	
	263			2	UV-851O220X3N	O-RING	
	265			4	UV-851O20X3V	O-RING	
	266			32	UV-851931N14X1209	SCREW, Hexagon	
	269			40	UV-851912N16X409	SCREW, Socket Hexagon	
	271			2	UV-8517697H24	SEAL, Face	
	272			2	UV-851908N22F5	PLUG, Screw	
	273			2	UV-8517603NA2227	RING, Sealing	
	274			4	UV-851908N14F5	PLUG, Screw	
	275			4	UV-8517603NAX1418	RING, Sealing	
	278			2	UV-851335100800	SOCKET, Bleeding	
	279			2	UV-8517603NA1418	RING, Sealing	
	280			2	UV-851335181501	VALVE, Bleeder	
	284			32	UV-8515092751353	SPRING, Compression	
	296			2	UV-8515092752201	PIECE, Intermediate	
	297			2	UV-8511050264	RING, Piston Guide	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AXLE DIFFERENTIAL ASSEMBLY - FRONT (NON-SPIN) - D81

DATE: 02.07.2014
REV: NINETY FOUR



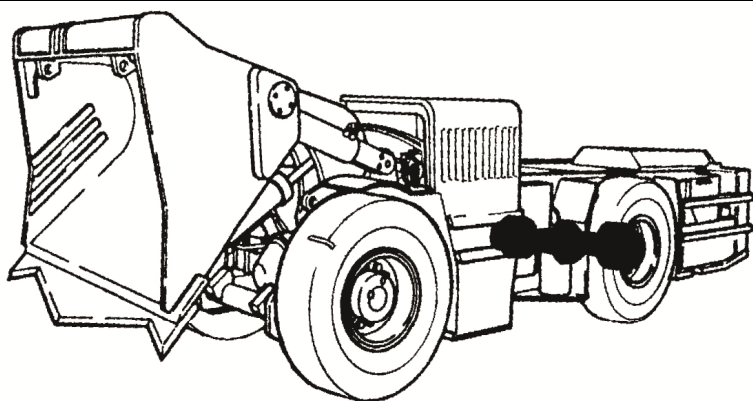
P I
3630 00



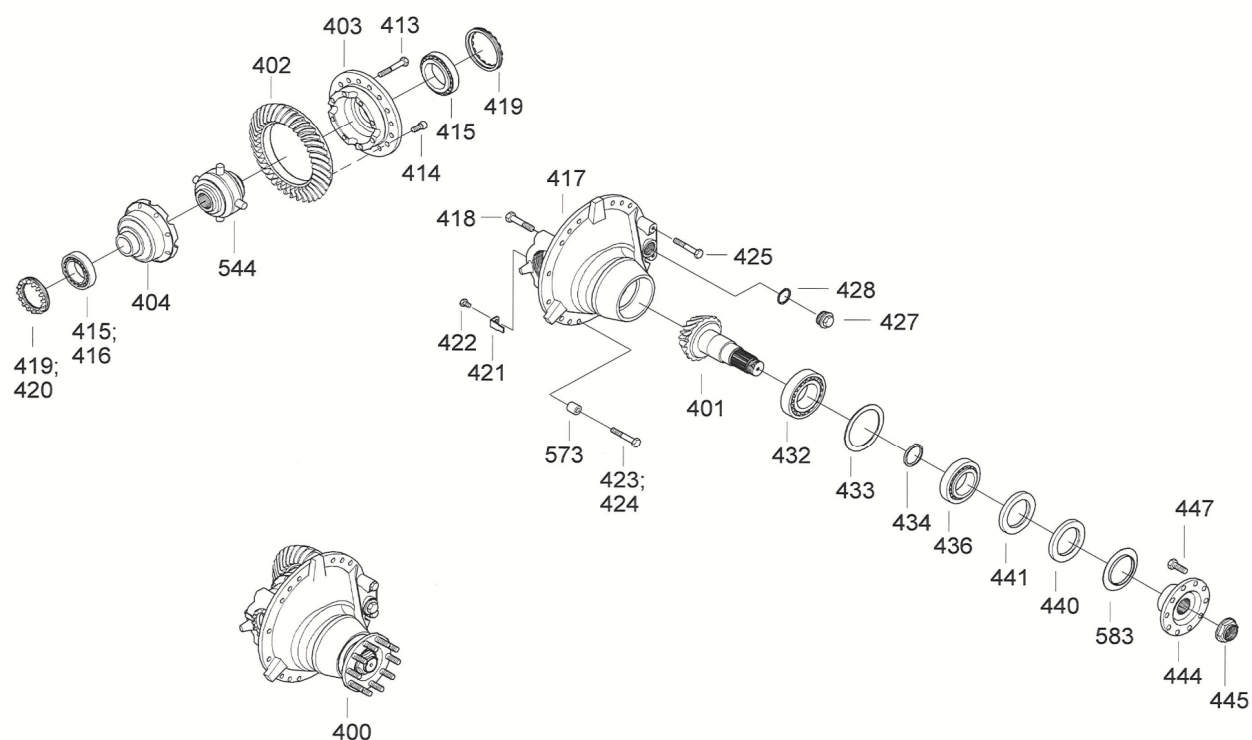
DATE: 17.11.2014 REV: NINETY NINE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AXLE DIFFERENTIAL ASSEMBLY – FRONT (NON-SPIN) - D81				Pg 093
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3630	00			1	UV-85100564	PLANETARY HUB ASSEMBLY	
	300			2	UV-8515092501031	HOUSING, Planetary	
	304			2	UV-85103604N	O-RING	
	305			2	UV-851908N24F5	PLUG, Screw	
	306			2	UV-8517603NA2430	RING, Sealing	
	307			2	UV-851908N24F5M	PLUG, Screw	
	308			2	UV-8517603NA2430	RING, Sealing	
	309			2	UV-851509249094	RING, Thrust	
	312			6	UV-8517984N10208	SCREW, Hexagon Socket	
	314			2	UV-851509251553	GEAR, Sun	
	319			2	UV-851912N161309	SCREW, Hexagon Socket	
	320			2	UV-851507249064	RING, Thrust	
	322			8	UV-851509253243	GEAR, Planetary	
	329			8	UV-851F204783	BEARING	
	335			2	UV-851509252372	GEAR, Ring	
	336			6	UV-851509255862	CARRIER, Ring Gear	
	337			6	UV-851507247034	RETAINER	
	338			12	UV-851933N6X129	SCREW, Hexagon	
	351			8	UV-851471N502	CIRCLIP	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AXLE DIFFERENTIAL ASSEMBLY - FRONT (NON SPIN) - D81

DATE: 02.07.2014
REV: NINETY
FOUR



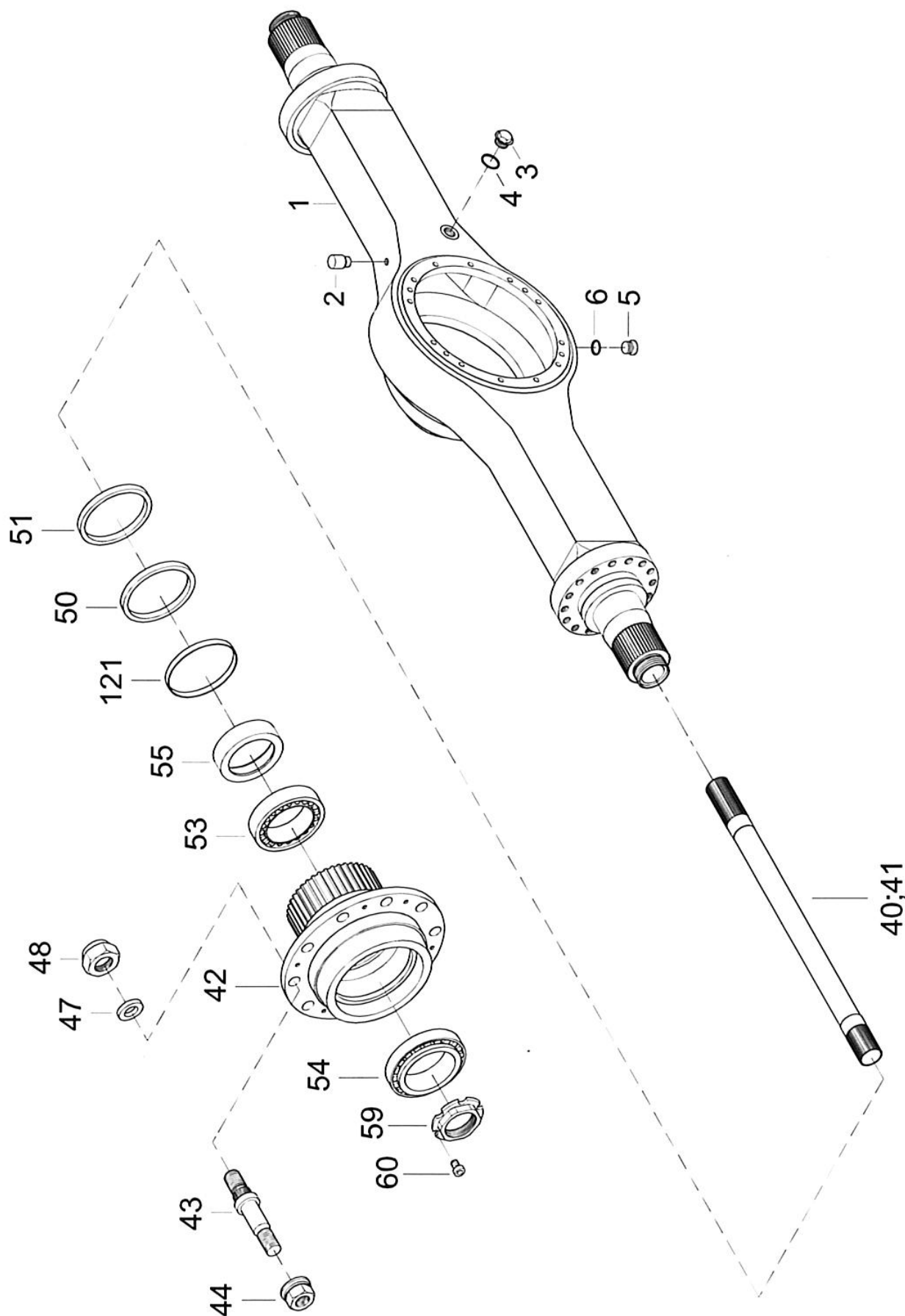
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3640 00



DATE: 02.07.2014 REV: NINETY FOUR		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AXLE DIFFERENTIAL ASSEMBLY – FRONT (NON SPIN) - D81					Pg 094
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3630	00			1	9002608	AXLE DIFFERENTIAL ASSEMBLY – FRONT (NON SPIN)	
	400			1	UV-851821099AA	DIFFERENTIAL & CARRIER ASSEMBLY	
	401			1	UV-8515126233	PINION, Drive	
	402			1	UV-8515126243	GEAR, Ring	
	403			1	UV-8517133781	HOUSING, Differential	
	404			1	UV-8517116702	SCREW, Hexagon	
	413			8	UV-851931N141009	SCREW, Hex Hd	
	414			1	UV-851933N14352	SCREW, Hexagon	
	415			1	UV-85132017	BEARING, Tapered Roller	
	416			1	UV-85132014	BEARING, Tapered Roller	
	417			1	UV-8515115880	CARRIER, Differential	
	418			4	UV-851931N16809	SCREW, Hexagon	
	419			1	UV-851519214	RING, Setting	
	420			1	UV-851510353	RING, Setting	
	421			2	UV-8511060604	PLATE, Lock	
	422			2	UV-851933N8129	SCREW, Hexagon	
	423			14	UV-851933N14359	SCREW, Hexagon	
	425			2	UV-851931N14909	SCREW, Hexagon	
	427			1	UV-851910N30F5	PLUG, Screw	
	428			1	UV-8517603NA3036	RING, Sealing	
	432			1	UV-85131314	BEARING, Tapered Roller	
	433			1	UV-851S1201503	RING, Radial Seal	
	434			1	UV-851519584	FLANGE, Drive	
	436			1	UV-85131312	NUT, Adjusting	
	440			1	UV-851090130L12V	SCREW, Hexagon	
	444			1	UV-851518793	DIFFERENTIAL, Nospin	
	445			1	UV-8517127024	NUT, Adjusting	
	447			8	UV-851933N12359	SCREW, Hexagon	
	544			1	UV-85171787	DIFFERENTIAL, Nospin	
	583			1	UV-8511028194	HOUSING, Differential	
	1430			2	UV-8511025074	LABEL, Warning	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AXLE DIFFERENTIAL ASSEMBLY - REAR (NON-SPIN) - D81

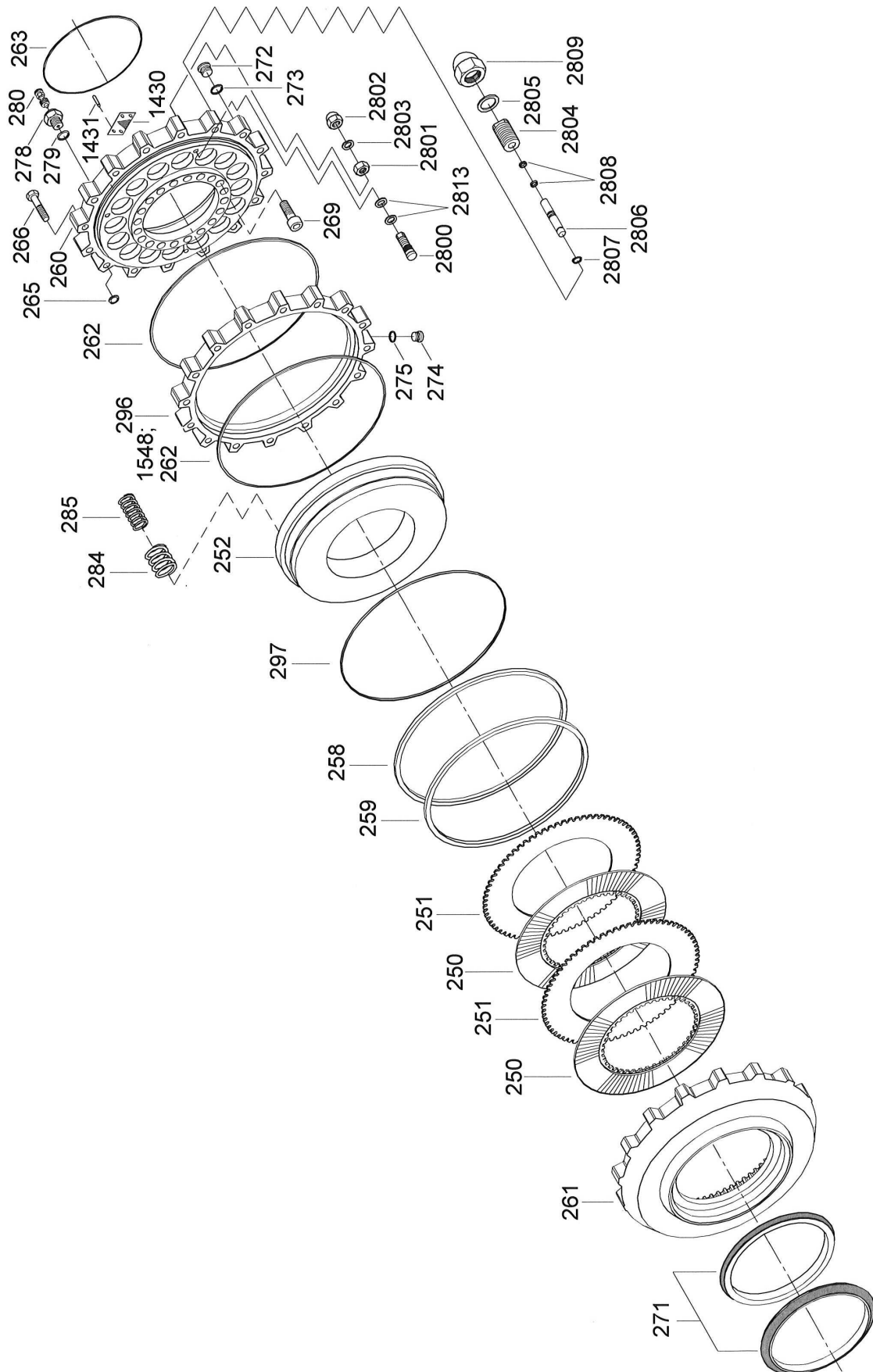
DATE: 01.02.2017
REV: HUNDRED &
TWENTY ONE



DATE: 01.02.2017 REV: HUNDRED & TWENTY ONE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AXLE DIFFERENTIAL ASSEMBLY – REAR (NON-SPIN) - D81				Pg 095
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3640	00			1	UV-85000031	AXLE DIFFERENTIAL ASSEMBLY - REAR (NON-SPIN)	
	01			1	UV-851821100AG	HOUSING, Axle	
	02			1	UV-85110190300	BREATHER	
	03			1	UV-851910N30F5	PLUG, Screw	
	04			1	UV-8517603NA3036	RING, Sealing	
	05			1	UV-851908N16F5M	PLUG, Screw	
	06			1	UV-8517603NA1620	RING, Sealing	
	40			2	UV-851818115P12	SHAFT, Axle	
	42			2	UV-8518193011	HUB, Wheel	
	43			24	9002576	STUD, Wheel	
	44			24	UV-85174361N22F10	NUTS, Wheel	
	47			24	UV-8518190994	DISK	
	48			24	UV-851985N24F28	NUT, Hexagon	
	50			2	UV-851150180L08N	RING, Radial Seal	
	51			2	UV-851150180L08V	RING, Radial Seal	
	53			2	UV-851132024X	BEARING, Tapered Roller	
	54			2	9002580	BEARING, Tapered Roller	
	55			2	9002581	RING	
	59			2	9002582	NUT	
	60			2	9002583	SCREW, Hexagon Socket	
					UV-851819779P2	BRAKE ASSEMBLY	
	121			2	9002584	RING	
				1	UV-91500078	AXLE BRAKE PIPE KIT, Rear Axle	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AXLE DIFFERENTIAL ASSEMBLY - REAR (STANDARD) - D81

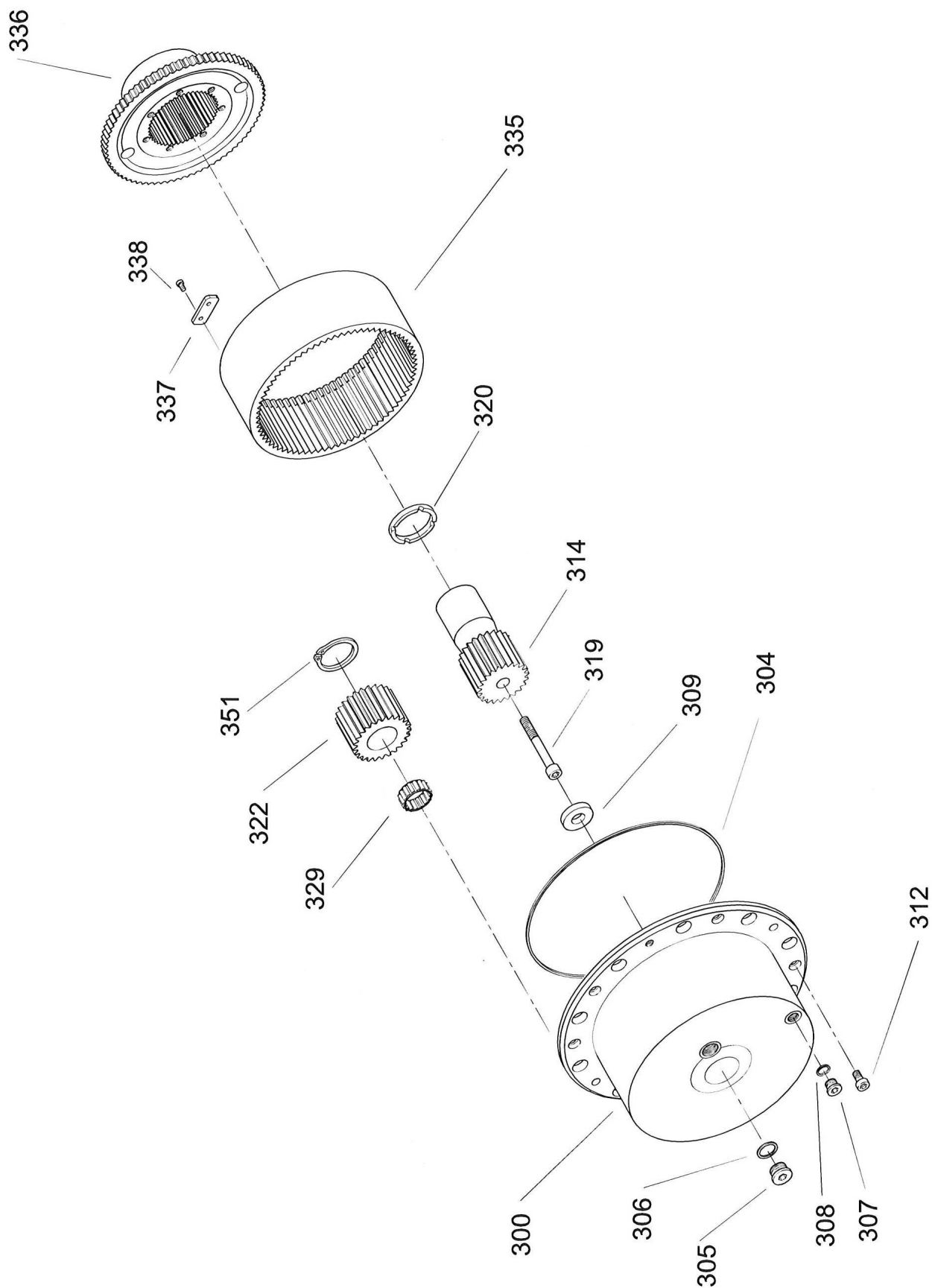
DATE: 02.07.2014
REV: NINETY FOUR



DATE: 02.07.2014 REV: NINETY FOUR			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AXLE DIFFERENTIAL ASSEMBLY – REAR (STANDARD) - D81				Pg 096A
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3640	00			2	UV-851819779P2	AXLE SPRING LOADED BRAKE ASSEMBLY	
	250			8	UV-851507275673	DISK, Inner	
	251			8	UV-851507275223	DISK, Outer	
	252			2	UV-8515092751792	PISTON	
	258			2	UV-8511050254	GASKET	
	259			2	UV-8511050244	GASKET	
	260			2	UV-8515092753141	BRAKE CARRIER	
	261			2	UV-8515092751771	HOUSING	
	262			4	UV-851O3603V	O-RING	
	263			2	UV-851O2203N	O-RING	
	265			4	UV-851O203V	O-RING	
	266			32	UV-851931N141209	SCREW, Hexagon	
	269			40	UV-851912N16409	SCREW, Socket Hexagon	
	271			2	UV-8517697H24	SEAL, Face	
	272			2	UV-851908N22F5	PLUG, Screw	
	273			2	UV-8517603NA2227	RING, Sealing	
	274			4	UV-851908N14F5	PLUG, Screw	
	275			4	UV-8517603NA1418	RING, Sealing	
	278			2	UV-851335100800	SOCKET, Bleeding	
	279			2	UV-8517603NA1418	RING, Sealing	
	280			2	UV-851335181501	VALVE, Bleeder	
	284			32	UV-8515092751353	SPRING, Compression	
	296			2	UV-8515092752201	PIECE, Intermediate	
	297			2	UV-8511050264	RING, Piston Guide	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AXLE DIFFERENTIAL ASSEMBLY - REAR (STANDARD) - D81

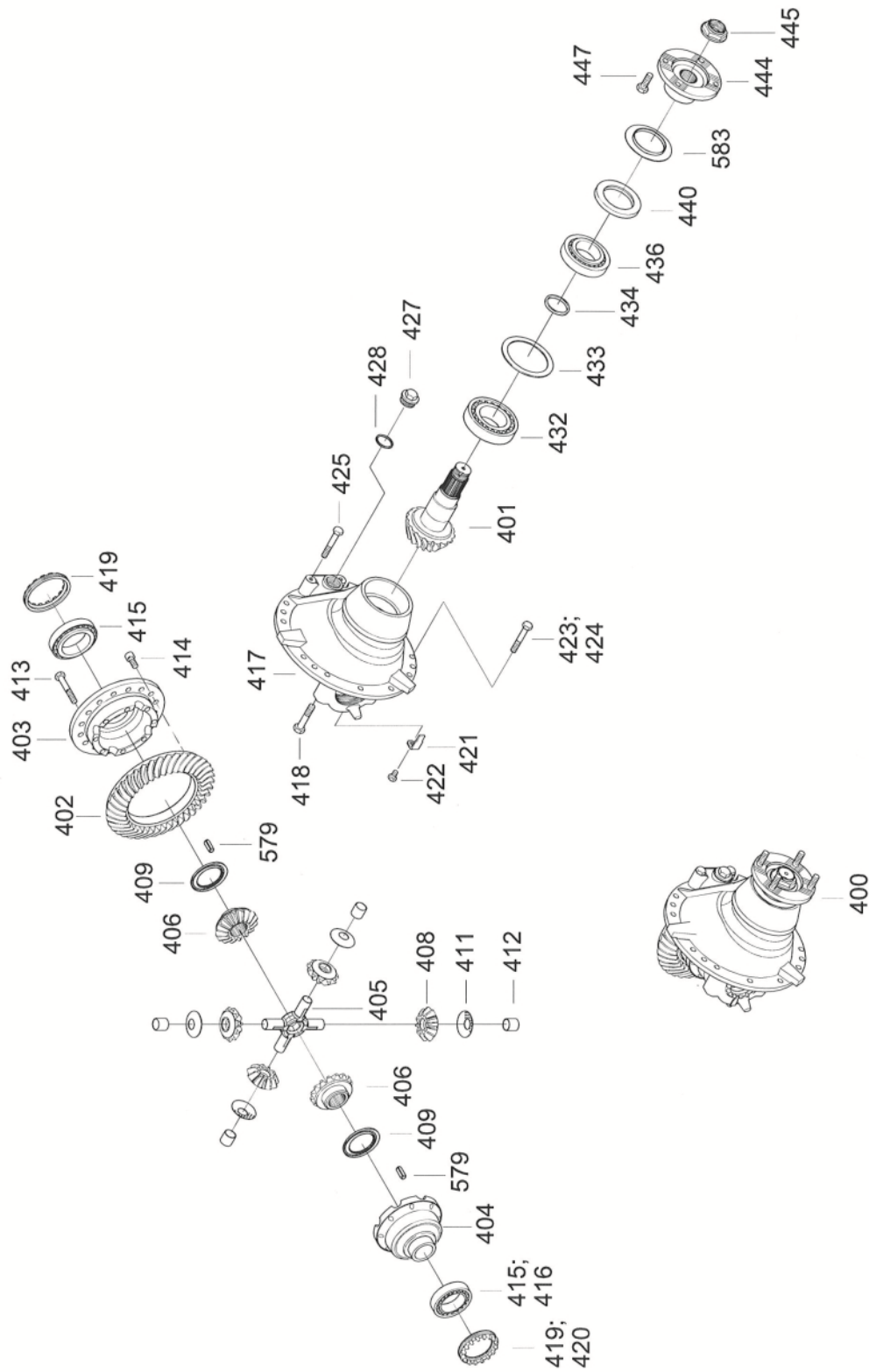
DATE: 02.07.2014
REV: NINETY FOUR



DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AXLE DIFFERENTIAL ASSEMBLY – REAR (STANDARD) - D81					Pg 096B
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3640	00			2	UV-85100564	PLANETARY HUB ASSEMBLY	
	300			2	UV-8515092501031	HOUSING, Planetary	
	304			2	9002586	O-RING	
	305			2	UV-851908N24F5	PLUG, Screw	
	306			2	UV-8517603NA2430	RING, Sealing	
	307			2	UV-851908N24F5M	PLUG, Screw	
	308			2	UV-8517603NA2430	RING, Sealing	
	309			2	UV-85100566	RING, Thrust	
	312			2	UV-851912N161309	SCREW, Hexagon Socket	
	314			6	UV-85100567	GEAR, Sun	
	319			2	9002591	SCREW, Hexagon Socket	
	320			2	9002592	RING, Thrust	
	322			8	UV-85100568	GEAR, Planetary	
	329			8	9002594	BEARING	
	335			2	UV-85100569	GEAR, Ring	
	336			2	UV-85100570	CARRIER, Ring Gear	
	337			6	UV-851507247034	RETAINER	
	338			12	UV-851933N6X129	SCREW, Hexagon	
	351			8	9002598	CIRCLIP	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AXLE DIFFERENTIAL ASSEMBLY - REAR (STANDARD) - D81

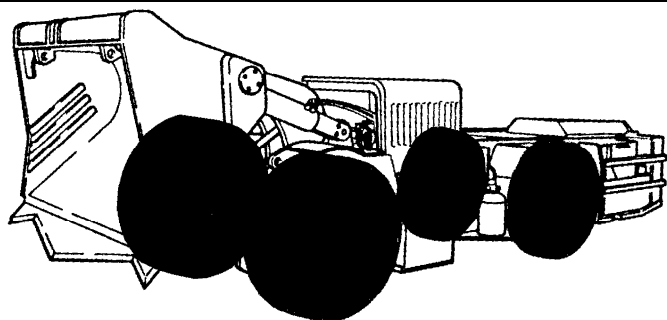
DATE: 02.07.2014
REV: NINETY FOUR



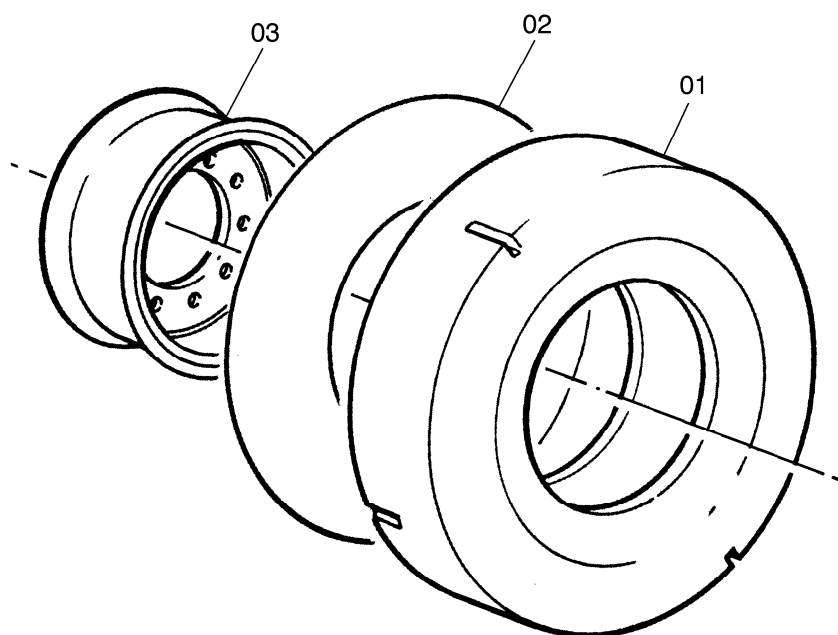
DATE: 02.07.2014 REV: NINETY FOUR			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AXLE DIFFERENTIAL ASSEMBLY – REAR (STANDARD) - D81				Pg 096C
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3640	00			2	UV-85100028	AXLE DIFFERENTIAL ASSEMBLY - REAR (STANDARD)	
	400			1	UV-851821100AA	ASSEMBLY, Differential & Carrier	
	401			1	UV-8515126233	PINION, Drive	
	402			1	UV-8515126243	RING, Gear	
	403			1	UV-8517245831	HOUSING, Differential	
	404			1	UV-8517212872	HOUSING, Differential	
	405			1	UV-851717843	SPIDER, Differential	
	406			2	UV-851717862	SIDE GEAR, Differential	
	408			4	UV-851717852	PINION, Differential	
	409			2	UV-8511036474	DISK	
	411			4	UV-8517219064	WASHER, Thrust	
	412			4	UV-851717834	BUSHING, Bearing	
	413			12	UV-851931N141009	SCREW, Hexagon	
	414			16	UV-851933N14352	SCREW, Hexagon	
	415			1	UV-85132017	BEARING, Tapered Roller	
	416			1	UV-85132014	BEARING, Tapered Roller	
	417			1	UV-8515139660	CARRIER, Differential	
	418			4	UV-851931N16809	SCREW, Hexagon	
	419			1	UV-851519214	RING, Setting	
	420			1	UV-851510353	RING, Setting	
	421			2	UV-8511060604	PLATE, Lock	
	422			2	UV-851933N8129	SCREW, Hexagon	
	423			21	UV-851912N14509	SCREW, Hexagon Socket	
	424			3	UV-851912N14609	SCREW, Hexagon Socket	
	432			1	UV-85131314	BEARING, Tapered Roller	
	433			1	UV-851S1201503	WASHER, Thrust	
	434			1	UV-851519584	RING	
	436			1	UV-85131312	BEARING, Tapered Roller	
	440			1	UV-851090130L12V	RING, Radial Seal	
	444			1	UV-851518793	FLANGE, Drive	
	445			1	UV-8517127024	NUT, Adjusting	
	447			8	UV-851933N12359	SCREW, Hexagon	
	579			4	UV-8511042864	PIN, Locking	
	583			1	UV-8511028194	DISK	
	1430			2	UV-8511025074	LABEL, Warning	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
WHEEL ASSEMBLY - D81

DATE: 18.02.2005
REV: SIX



P I
3700 00

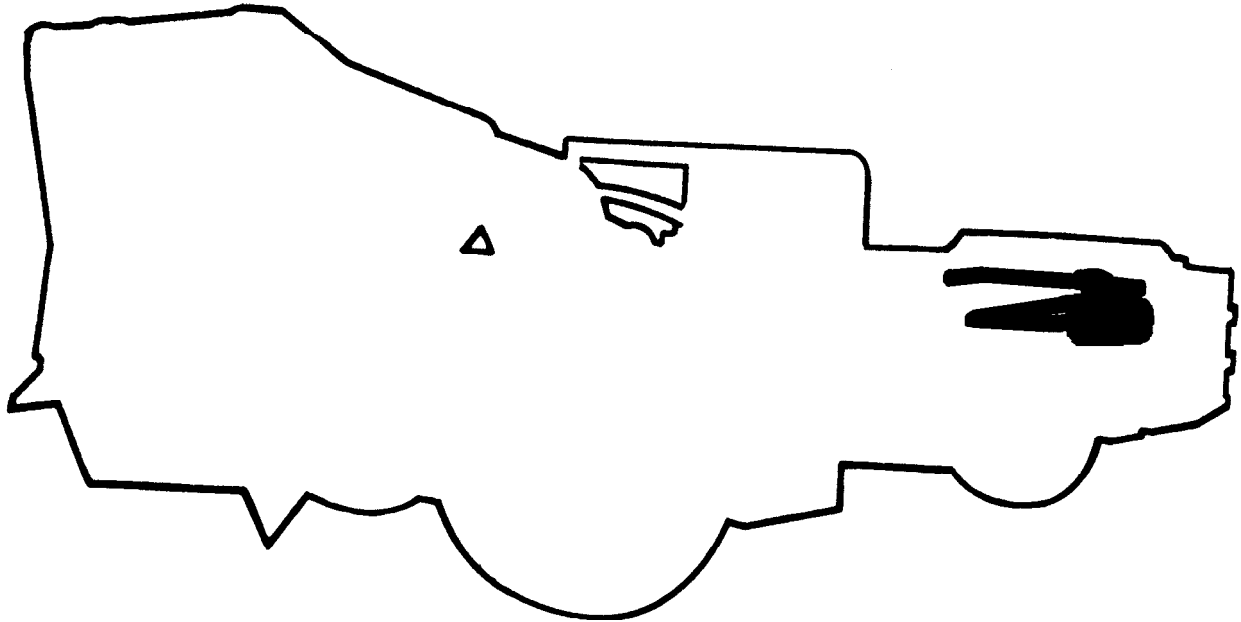


DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER WHEEL ASSEMBLY - D81 AXLE					Pg 097
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
3700	00			4	9002247	WHEEL ASSEMBLY - D81 AXLE	
	01			1	UV-83800004	TYRE, 1200 x 24 x 16 Ply	
	02			1	UV-83800005	TUBE, 1200 x 24	
	03			1	9002245	RIM, 8.50 - 24	
						<u>NOT ILLUSTRATED</u>	
					9002576	WHEEL STUDS	
					UV-85174361N22F10	WHEEL NUTS	
				4	UV-84800035	WHEEL ASSEMBLY, 14.00 - 24	
	01			1	UV-83800024	TYRE, 1400 – 24 16PR L5	
	02			1	UV-83800025	TUBE, 1400 x 24 16 PLY L5	
	03			1	UV-83900041	RIM, 10 – 24	
				4	9002248	WHEEL ASSEMBLY, 17.5 - 25	
	01			1	9002246	RIM, 17.5 - 25	
	02			1	UV-83800026	TYRE, 17.5 – 25 20 PR L5S PS	
	03			1	UV-83800027	TUBE, 17.5 x 25	

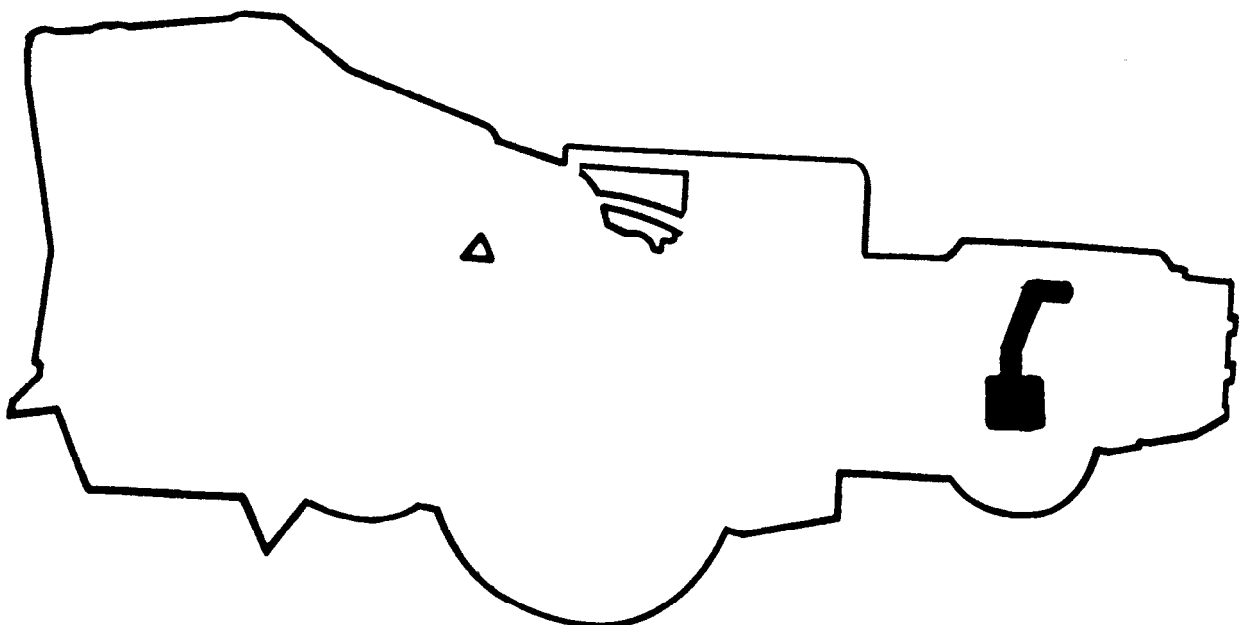
**PAGES 098 TO 120 LEFT BLANK
FOR FUTURE USE**

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AIR INTAKE AND EXHAUST GROUP

DATE:
REV:



P I
4100 00

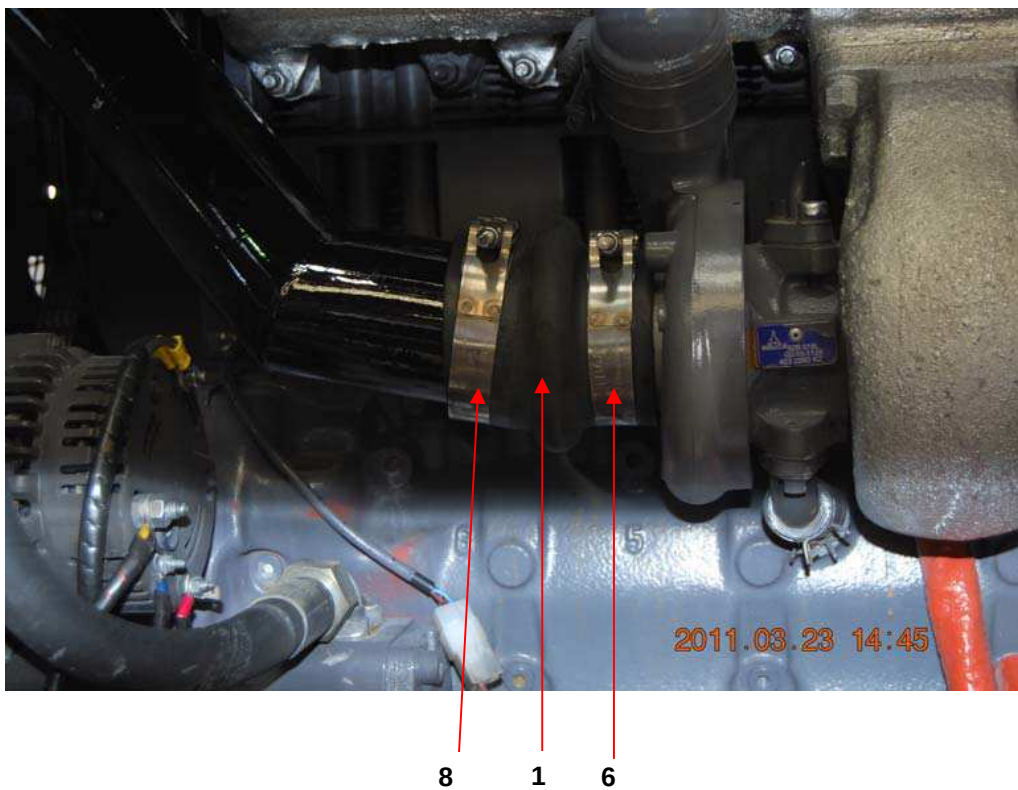
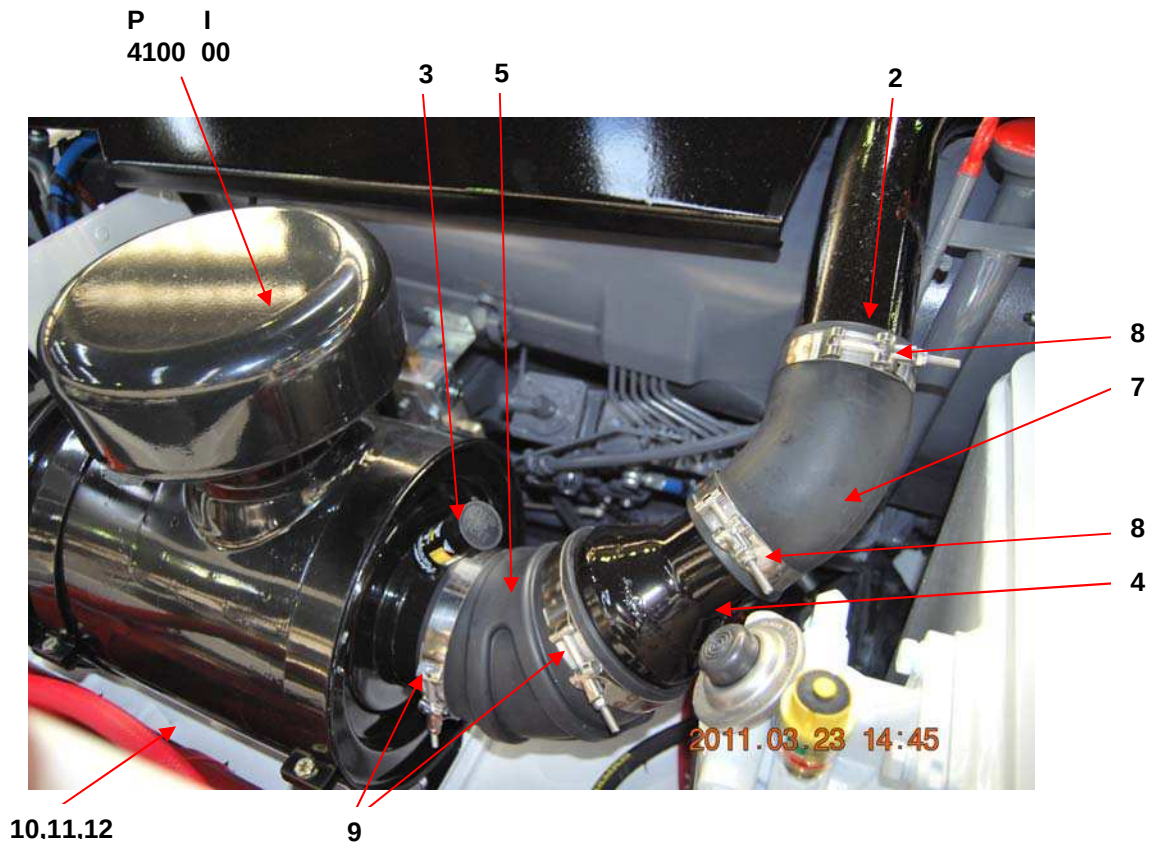


P I
4200 00

DATE: REV:		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AIR INTAKE AND EXHAUST GROUP					Pg 121
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
4000	00			1		AIR INTAKE AND EXHAUST GROUP	
4100	00		122	1	UV-81700101	AIR INTAKE ASSEMBLY	
4200	00		124	1	UV-85600043	EXHAUST ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AIR INTAKE ASSEMBLY

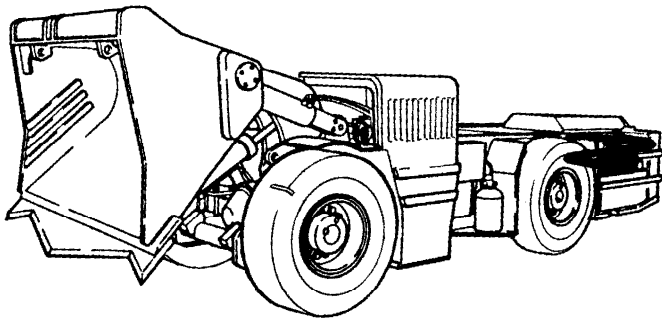
DATE: 25.03.2011
REV: FIFTY ONE



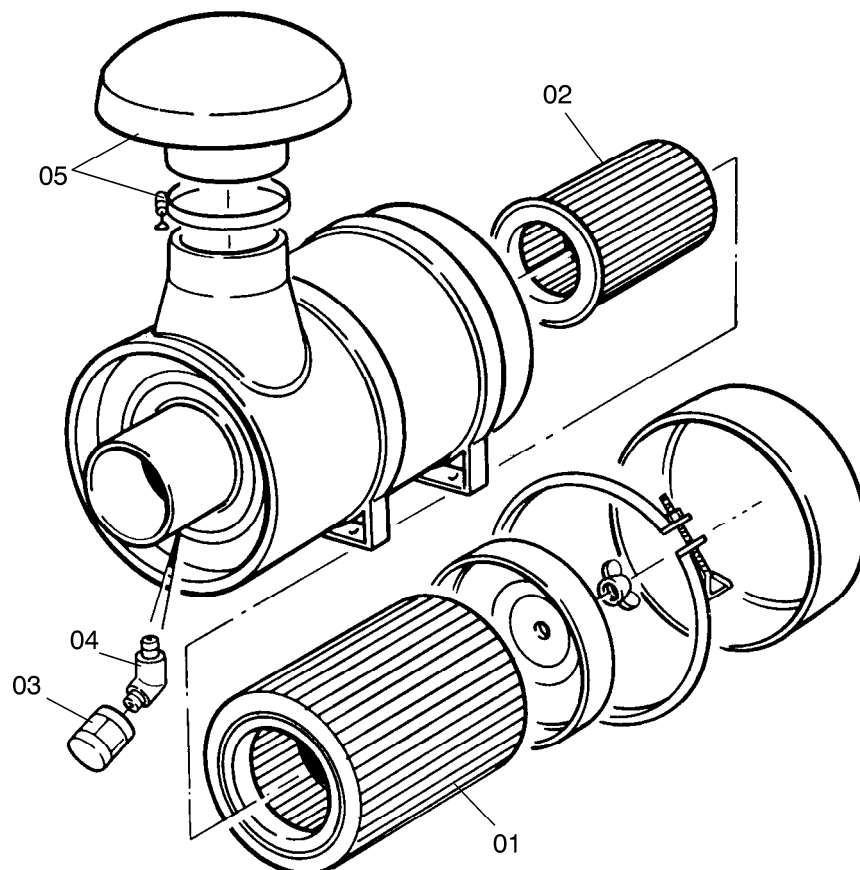
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AIR INTAKE ASSEMBLY					Pg 122
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
4100	00			1	UV-81700101K	AIR INTAKE ASSEMBLY	
	01			1	UV-81700097	STRAIGHT, Reducer	
	02			1	UV-81700112	PIPE, Steel	
	03			1	UV-0100784	INDICATOR, Complete	
	04			1	UV-81700106	PIPE, Steel	
	05			1	UV-81700104	HOSE, 45°	
	06			1	UV-81700105	CLAMP, T-Bolt	
	07			1	9000332	HOSE, 45°	
	08			3	UV-81700113	CLAMP, T-Bolt	
	09			1	UV-81700003	CLAMP, T-Bolt	
	10			4	9000329	SCREW, Hex Hd, M10 x 25 lg	
	11			4	106-M10-25	WASHER, Spring, Dia. 10	
	12			4	143-M10	NUT, Hex, M10	
4110	00		123	1	UV-81700130	AIR CLEANER ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
AIR CLEANER ASSEMBLY

DATE:
REV:



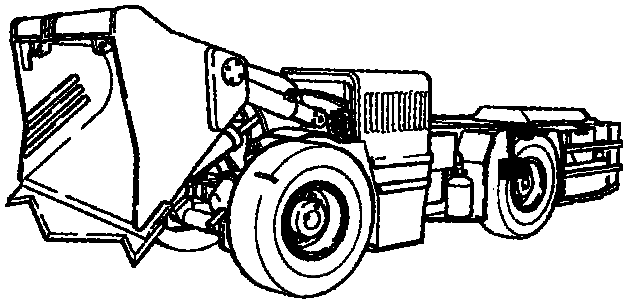
P I
4110 00



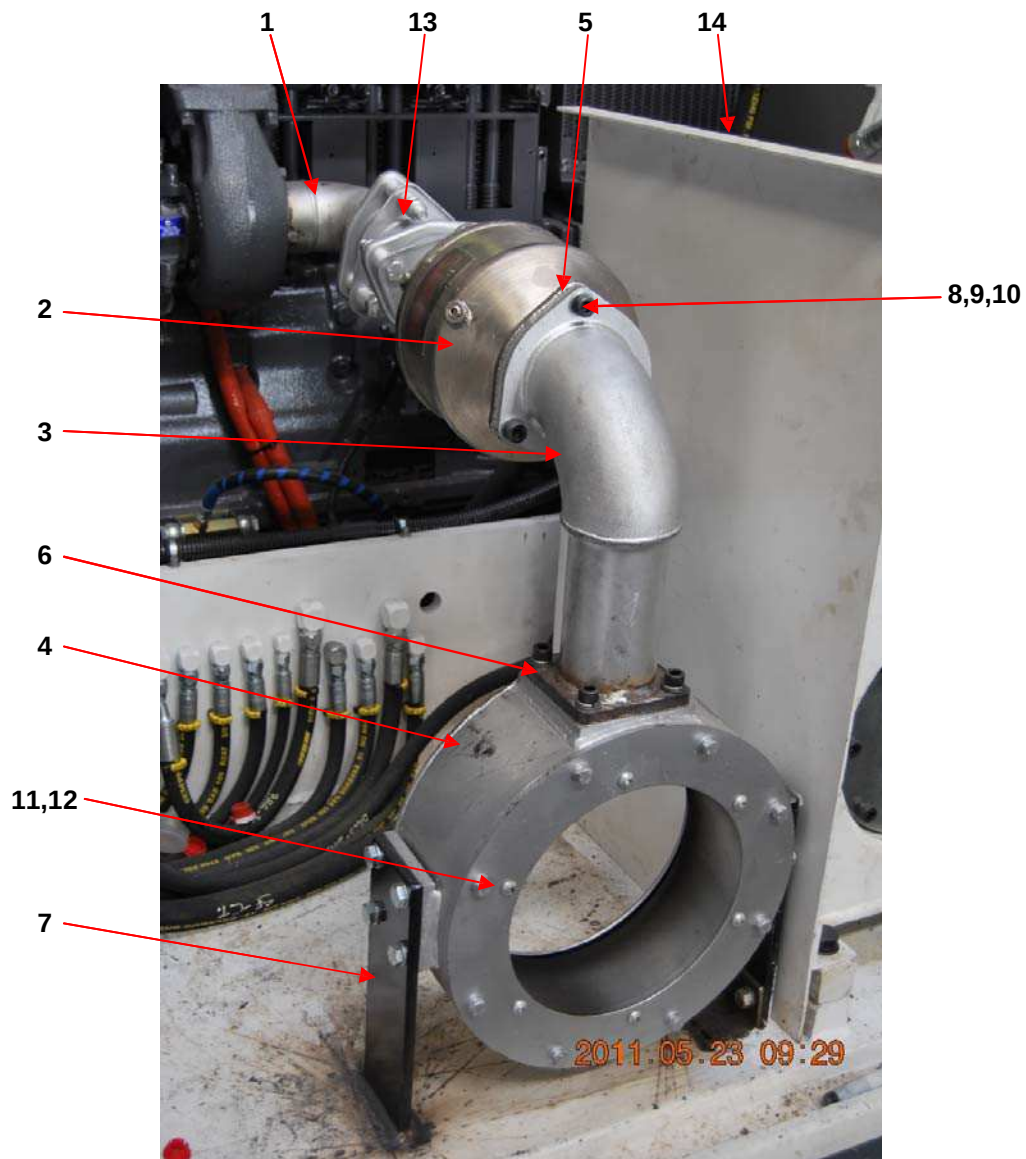
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER AIR CLEANER ASSEMBLY					Pg 123
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
4110	00			1	UV-81700130	AIR CLEANER ASSEMBLY	
	01			1	UV-817P181034	ELEMENT, Filter - Primary	
	02			1	UV-817P119374	ELEMENT, Filter - Safety	
	03			1	UV-0100784	INDICATOR, Restriction	
	04			1		ADAPTOR, 45° Elbow, Male	
	05			1	UV-81700015	HOOD, Inlet c/w Clamp	

AARD MINING EQUIPMENT AARDMAJOR
Mk 2 LOAD HAUL DUMPER
EXHAUST ASSEMBLY

DATE: 25.05.2011
REV: FIFTY THREE



P I
4200 00

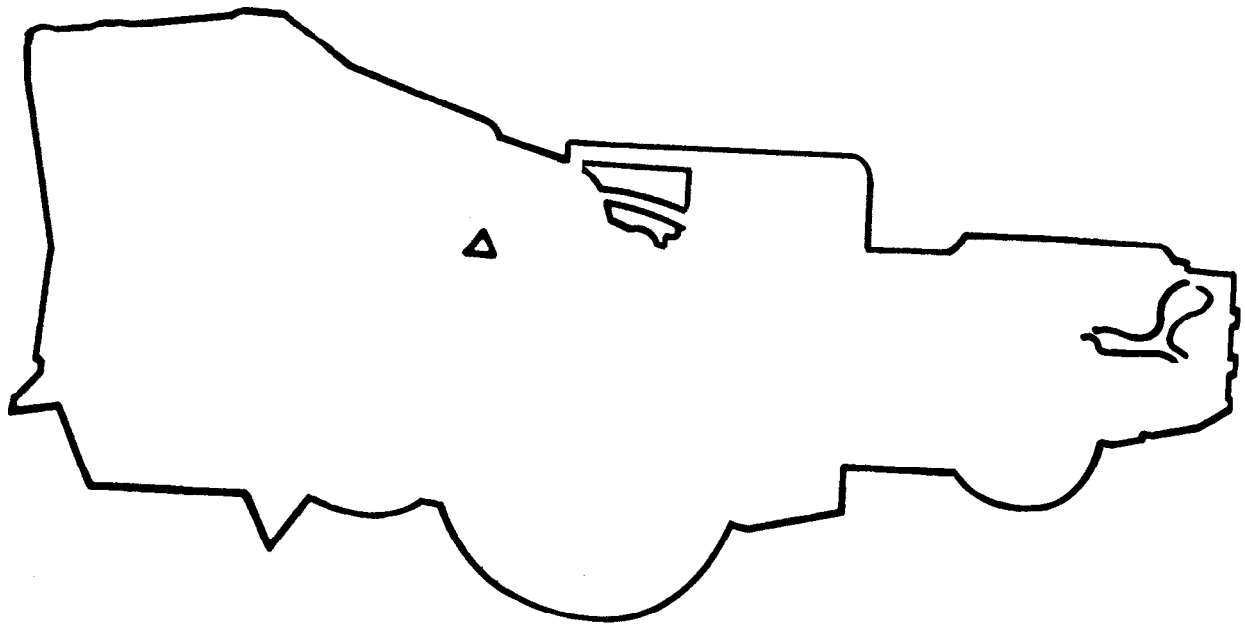


DATE: 25.05.2010 REV: FIFTY THREE			AARD MINING EQUIPMENT AARDMAJOR Mk 2 LOAD HAUL DUMPER EXHAUST ASSEMBLY				Pg 124
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
4200	00			1	UV-85600067	EXHAUST ASSEMBLY	
	01			1	9003256	BEND, Turbo c/w Attaching Parts	
	02			1	UV-85600031	PURIFIER ASSEMBLY, Gas c/w Attaching Parts	
	03			1	9003257	BELLOW AND BEND ASSEMBLY c/w Attaching Parts	
	04			1	9000337	DILUTER ASSEMBLY, Fume	
	05			2	9000338	GASKET	
	06			2	9000339	GASKET	
	07			1	UV-85600079	BRACKET, Fume Diluter	
	08			6	109-M10-30	SCREW, Hex Hd, M10 x 30 lg	
	09			6	143-M10	WASHER, Spring, Dia. 10	
	10			6	128-M10	NUT, Hex, M10	
	11			6	DP-12393233	SCREW, Cap Soc Hex Hd, M6 x 20 lg	
	12			6	143-M6	WASHER, Spring, Dia. 6	
	13			1	9003255	JOINT, Vibol	
	14			1	UV-09100098	DEFLECTOR PLATE ASSEMBLY	

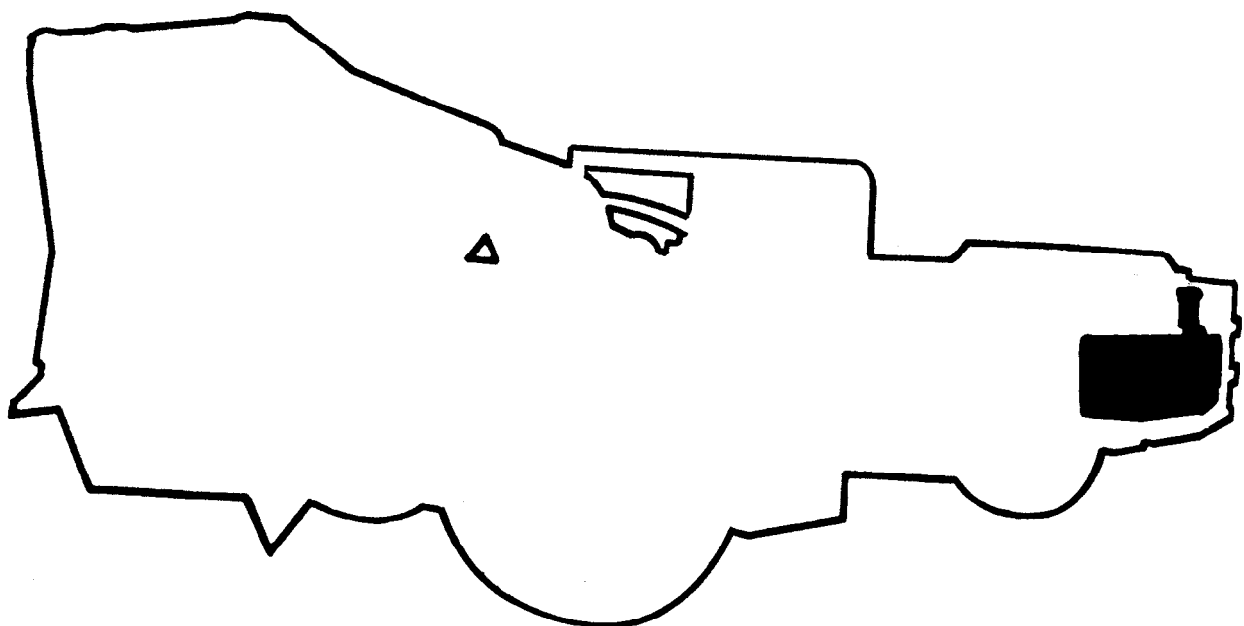
**PAGES 125 TO 130 LEFT BLANK
FOR FUTURE USE**

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FUEL GROUP

DATE:
REV:



P I
6100 00



P I
6200 00

DATE:
REV:

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FUEL GROUP

Pg 131

Pos
P

Item
I

Comm.
No.

See
Page

Qty

Part No.

Description

Dwg. No.

6000 00
6100 00
6200 00

132
133

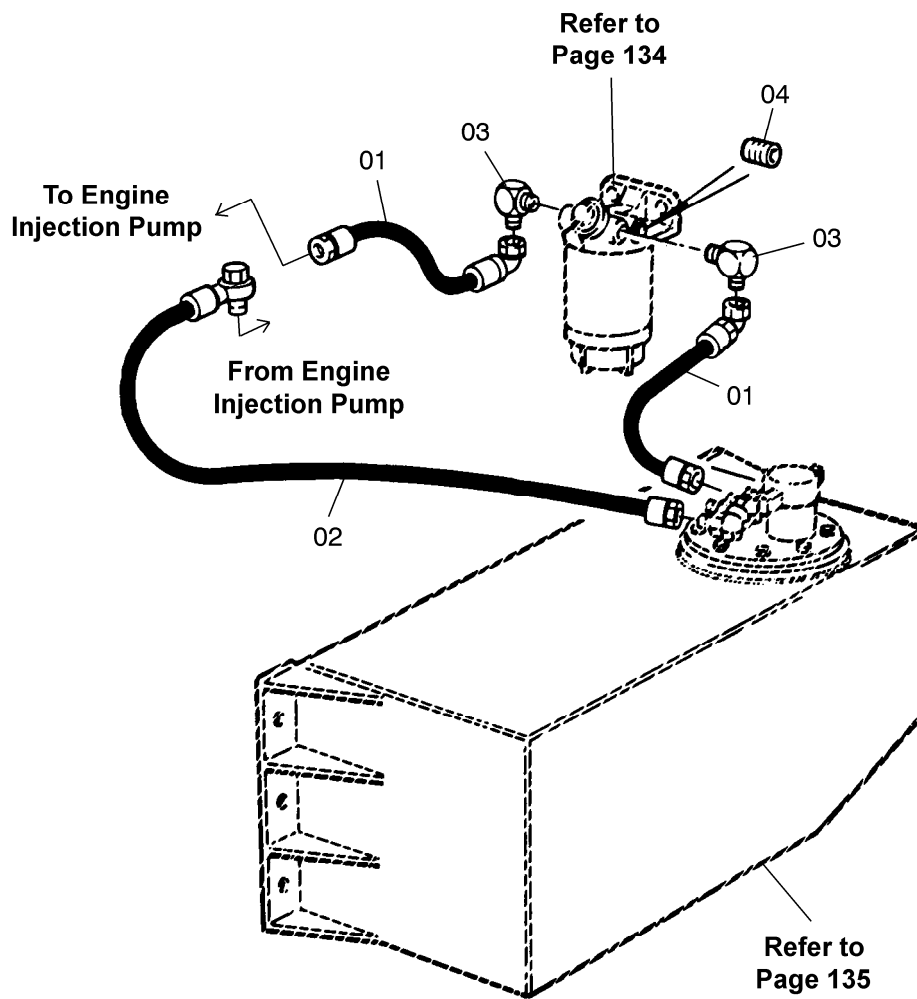
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1

FUEL GROUP
FUEL CIRCUIT ASSEMBLY
FUEL EQUIPMENT ASSEMBLY

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FUEL CIRCUIT ASSEMBLY

DATE:
REV:

P I
6100 00



DATE:
REV:

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FUEL CIRCUIT ASSEMBLY

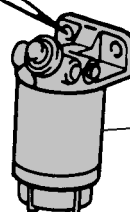
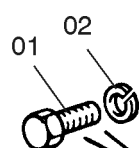
Pg 132

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
6100	00			1		FUEL CIRCUIT ASSEMBLY	
	01			2		HOSE ASSEMBLY, 1/2" - 1/2" JIC 90° Elbow End - 1/2" JIC Straight End - 440 lg	
	02			1		HOSE ASSEMBLY, 3/8" - 3/8" JIC Straight End - 14 Banjo End - 900 lg	
	03			2		ADAPTOR, 90° Elbow, Male, 3/8" NPT - 1/2" JIC	
	04			2		PLUG, Soc Hex Hd, Male, 3/8" NPT	

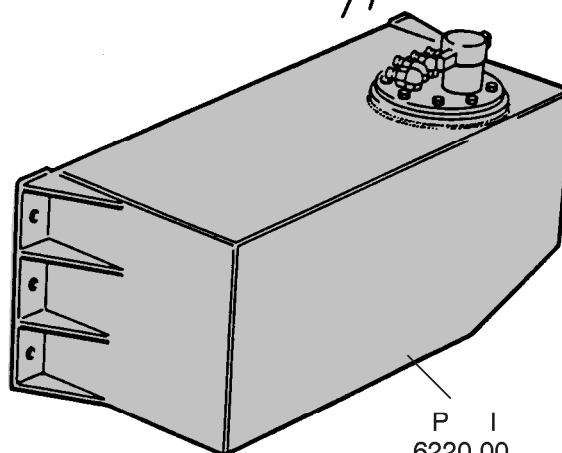
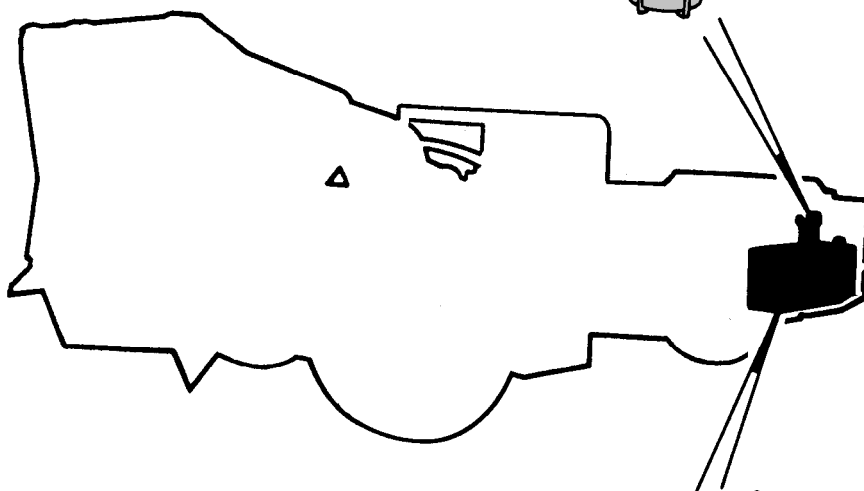
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FUEL EQUIPMENT ASSEMBLY

DATE:
REV:

P I
6200 00



P I
6210 00

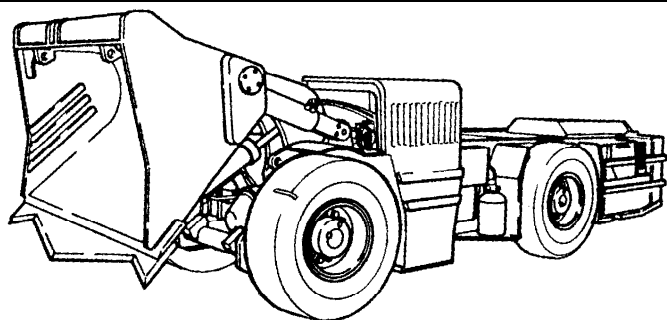


P I
6220 00

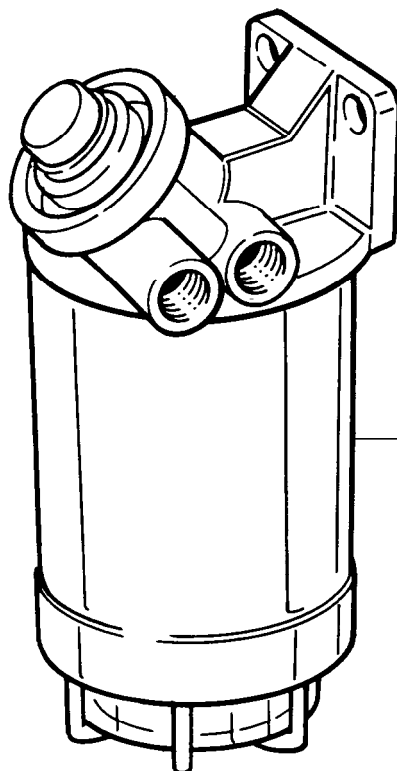
DATE: REV:		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER FUEL EQUIPMENT ASSEMBLY					Pg 133
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
6100	00			1		FUEL EQUIPMENT ASSEMBLY	
	01			2	102-M10-40	SCREW, Hex Hd, M10 x 40 lg	
	02			2	143-M10	WASHER, Spring, Dia. 10	
6210	00		134	1	UV-82100201	FUEL FILTER ASSEMBLY	
6220	00		135	1	9000180	FUEL TANK ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FUEL FILTER ASSEMBLY

DATE:
REV:



P I
6210 00

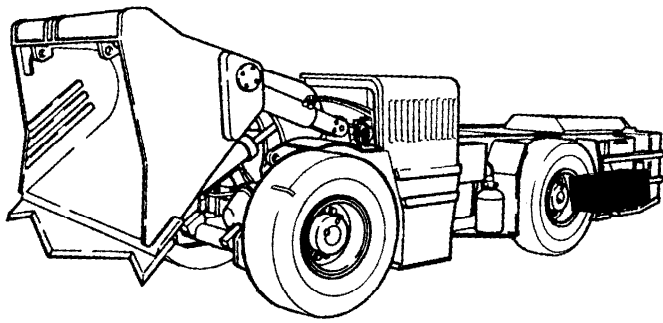


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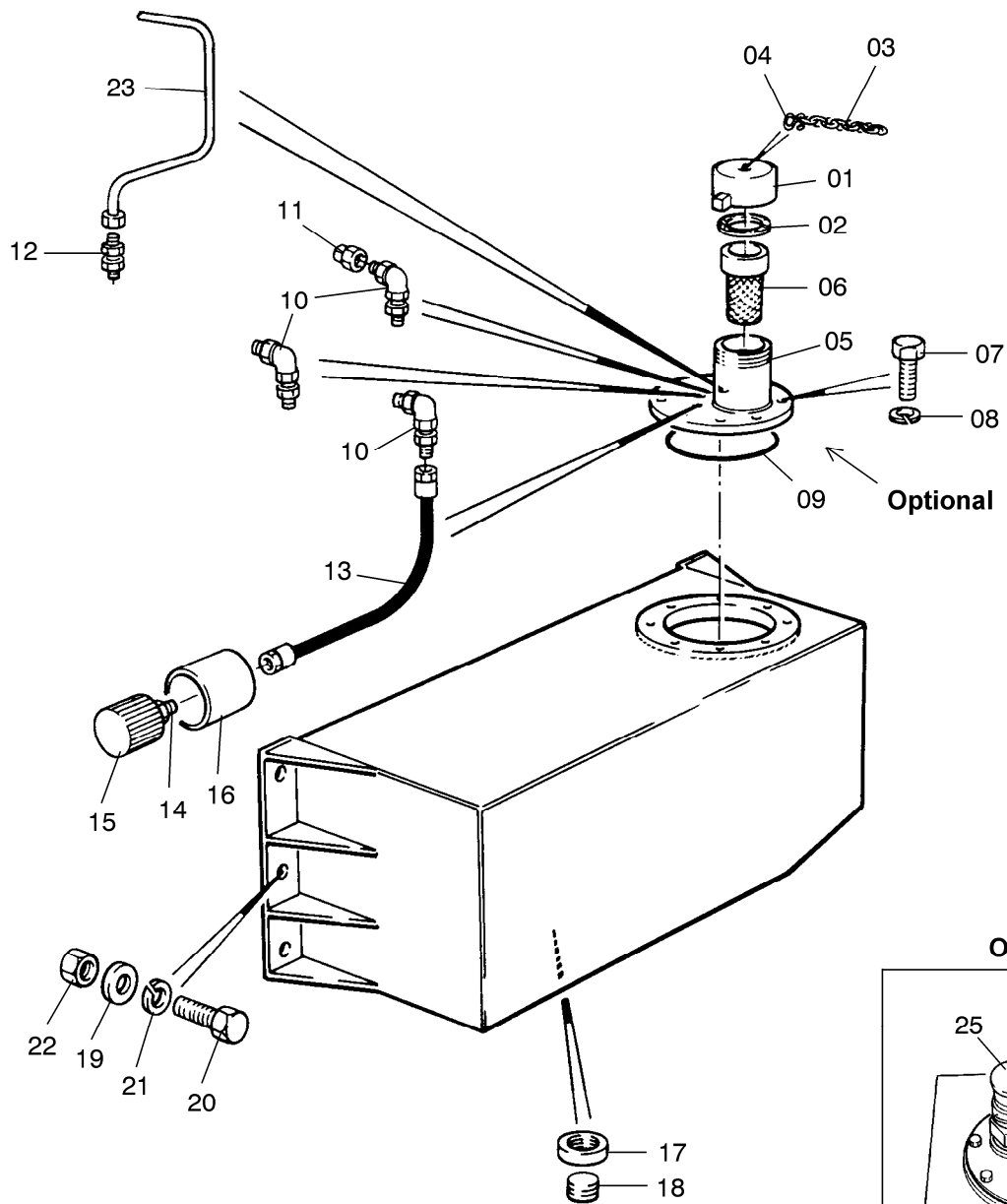
DATE: REV:		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER FUEL FILTER ASSEMBLY					Pg 134
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
6210	00 01			1 1	UV-82100201 UV-82100202	FUEL FILTER ASSEMBLY ELEMENT, Filter Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FUEL TANK ASSEMBLY

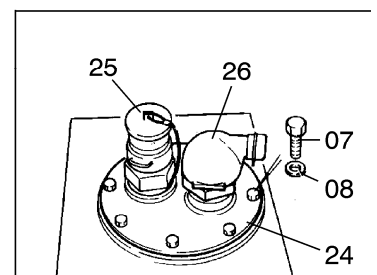
DATE:
REV:



P I
6220 00



OPTIONAL

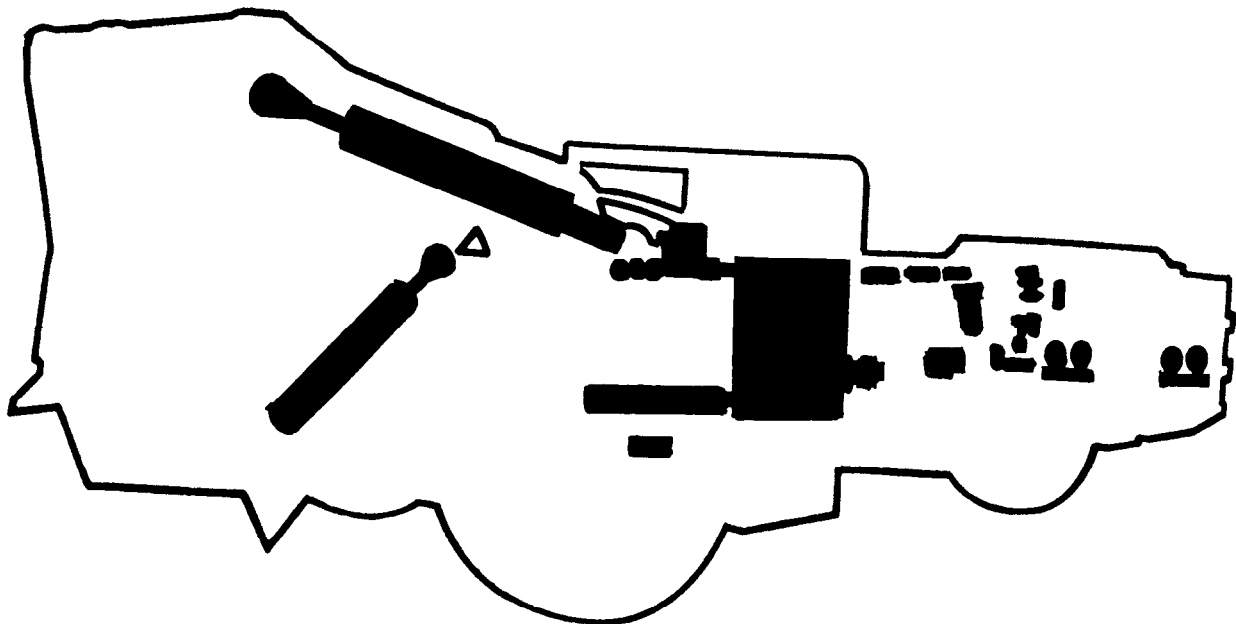


DATE: 06.07.2016 REV: HUNDRED & NINETEEN			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER FUEL TANK ASSEMBLY				Pg 135
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
6220	00			1	9000180	FUEL TANK ASSEMBLY	
	01			1	UV-88600001	CAP	
	02			1	UV-94000074	GASKET	
	03			1	200-EL-4-200	CHAIN - Welded	
	04			1	UV-85800001	S-HOOK	
	05			1	9000316	NOZZLE, Filling	
	06			1	UV-93000041	FILTER, Strainer	
	07			8	102-M10-25	SCREW, Hex Hd	
	08			8	143-M10	WASHER, Spring	
	09			1	UV-94000072	O-RING	
	10			3	P-WSV-15L	ADAPTOR, 90° Elbow Bulkhead, Male	
	11			1		PLUG, Blanking	
	12			1		ADAPTOR, Bulkhead, Male	
	13			1		HOSE ASSEMBLY	
	14			1		ADAPTOR, Straight, Male	
	15			1	UV-94000040	FILTER, Suction	
	16			1	UV-09700391	PROTECTION, Filter	
	17			1	UV-09100435	SOCKET - Welded	
	18			1	UV-96000008	PLUG, Drain	
	19			6	UV-09700110	SPACER	
	20			6	106-M16-50	SCREW, Hex Hd	
	21			6	143-M16	WASHER, Spring	
	22			6	121-M16	NUT, Hex	
	23			1	UV-91500096	PIPE, Breather	
	24			1	9000181	TANK, Fabrication	
						OPTIONAL	
	25			1		NOZZLE, Filling	
	26			1	9000061	RECIEVER ASSEMBLY	
	27			1	9000062	BREATHER ASSEMBLY	
	28			1	UV-0100427	FUEL LEVEL GAUGE (Not Illustrated)	
	29			1	UV-09100235	GOOSE NECK FILLER COVER (Not Illustrated)	

**PAGES 136 TO 140 LEFT BLANK
FOR FUTURE USE**

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HYDRAULIC GROUP

DATE:
REV:



P I
7200 00

DATE: 01.02.2017
REV: HUNDRED &
TWENTY ONE

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HYDRAULIC GROUP

Pg 141

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
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7000 00
7200 00

142

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1

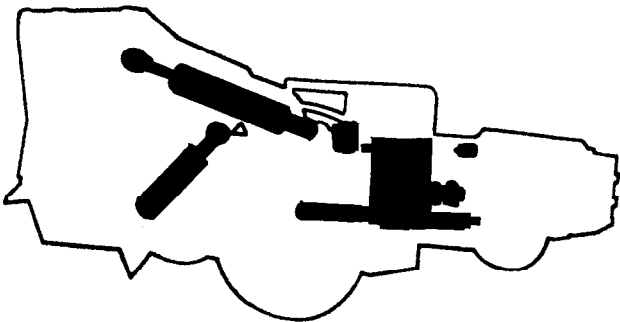
UV-18800320

HYDRAULIC GROUP
HYDRAULIC EQUIPMENT ASSEMBLY

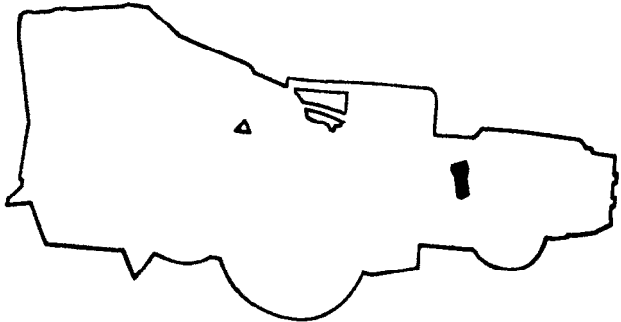
Note: Manufacturers Hydraulic Schematic Diagrams
are located at the back of this group

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HYDRAULIC EQUIPMENT ASSEMBLY

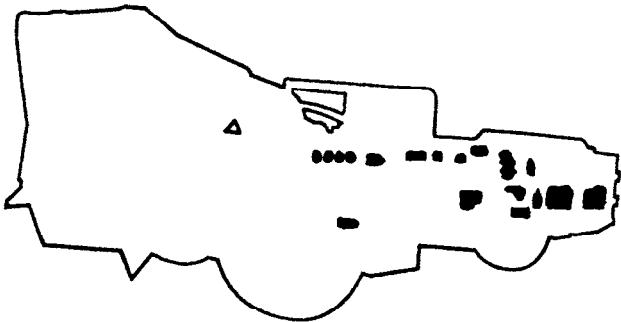
DATE:
REV:



P I
7210 00



P I
7230 00



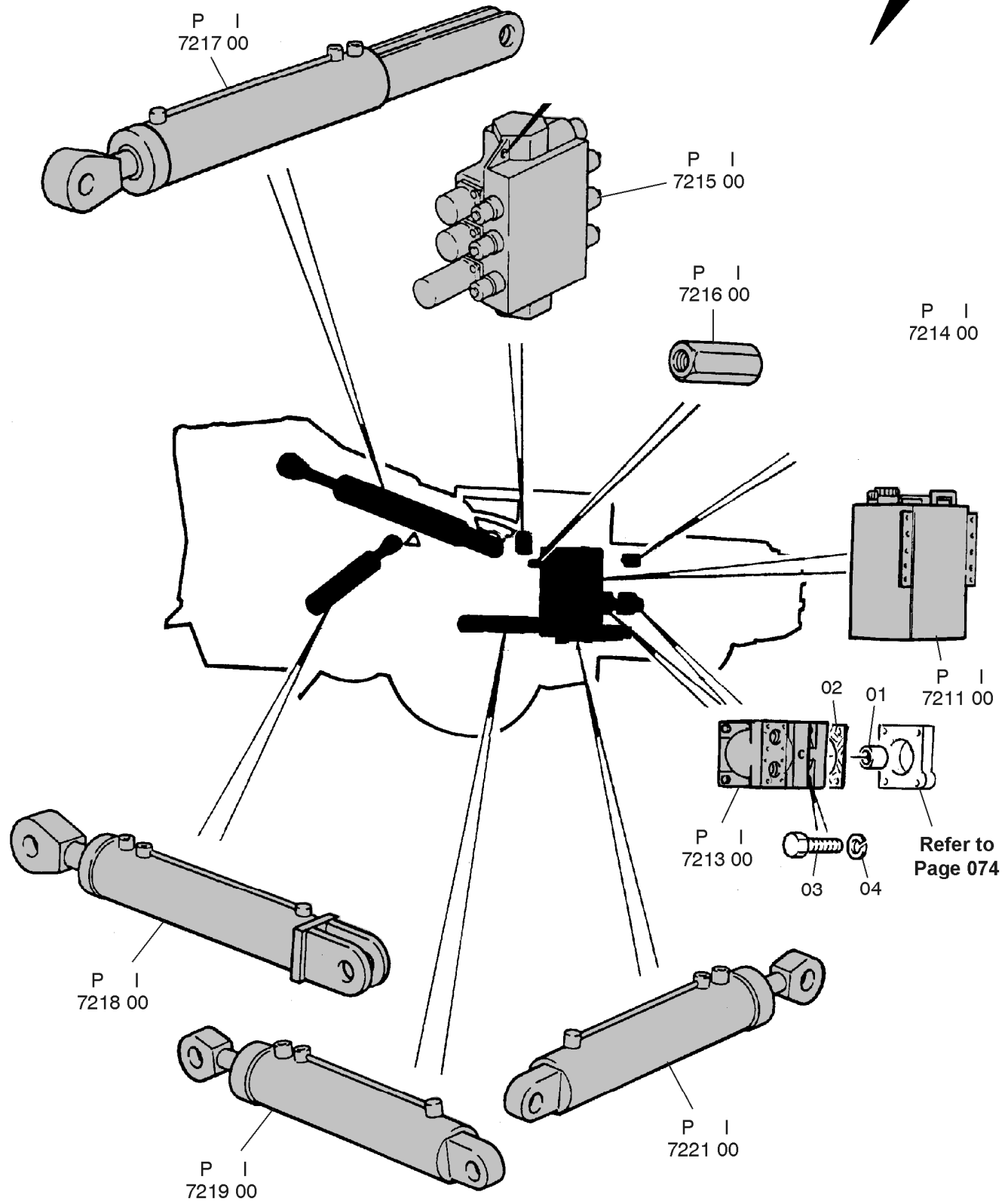
P I
7240 00

DATE: 17.11.2014 REV: NINETY NINE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER HYDRAULIC EQUIPMENT ASSEMBLY				Pg 142
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7200	00			1		HYDRAULIC EQUIPMENT ASSEMBLY	
7210	00		150	1	UV-18800093	HYDRAULIC EQUIPMENT ASSEMBLY - DUMP/HOIST/STEERING	
7230	00		161	1	9003326	HYDRAULIC EQUIPMENT ASSEMBLY - TORQUE CONVERTOR/TRANSMISSION	
7240	00		163	1	UV-18800093	HYDRAULIC EQUIPMENT ASSEMBLY - BRAKE	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HYDRAULIC EQUIPMENT ASSEMBLY -
DUMP/HOIST/STEERING

DATE: 17.11.2014
REV: NINETY
NINE

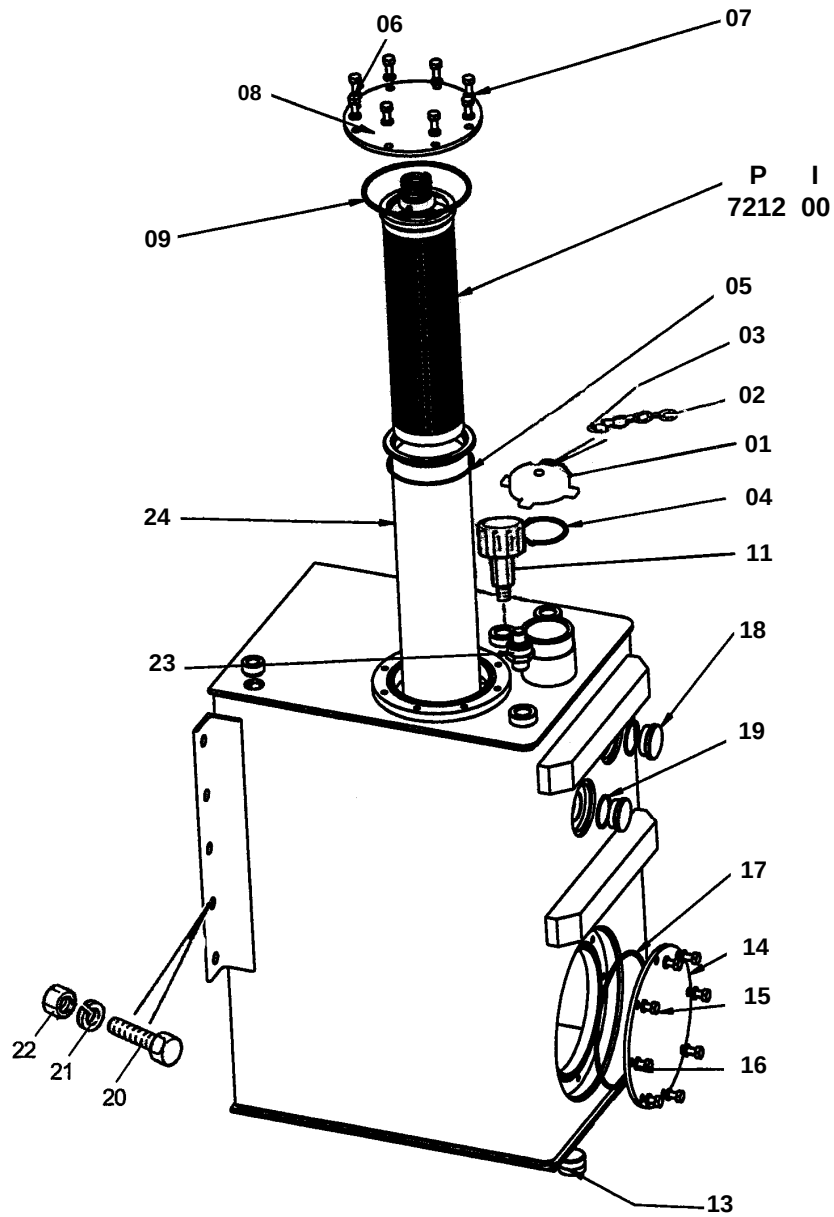
P I
7210 00



DATE: 01.02.2017 REV: HUNDRED & TWENTY ONE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER HYDRAULIC EQUIPMENT ASSEMBLY - DUMP/HOIST/STEERING					Pg 143
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7210	00			1	UV-18800320	HYDRAULIC EQUIPMENT ASSEMBLY - DUMP/HOIST/STEERING	
	01			2	UV-853235262	SLEEVE	
	02			2	UV-853235961	GASKET, Dia. 120/67 x 0,5	
	03			8	102-M12-30	SCREW, Hex Hd, M12 x 30 lg, Gr 8,8	
	04			8	143-M12	WASHER, Star, Dia. 12,5, DIN6797	
	05			3	109-M8-85	BOLT, Cap Soc Hex Hd, M8 x 85 lg, Gr8,8	
	06			3	109-M10-90	SCREW, Cap Soc Hex Hd, M10 x 90 lg, Gr 8,8	
	07			3	143-M10	WASHER, Spring, Dia. 10	
	08			3	121-M10	NUT, Hex, M10, Gr8	
7211	00		144	1	9000182	HYDRAULIC TANK ASSEMBLY	
7213	00		146	2	UV-91000028	PISTON PUMP ASSEMBLY	
7214	00		147	1	UV-92600012	PRESSURE RELIEF VALVE ASSEMBLY	
7215	00		148	1	UV-92300169	CONTROL VALVE BANK ASSEMBLY	
7216	00		149	1	UV-928SRE4G12	FLOW CONTROL VALVE ASSEMBLY	
7217	00		150	1	9002062	DUMP CYLINDER ASSEMBLY	
7218	00		151	1	UV-90000180	HOIST CYLINDER ASSEMBLY	
7219	00		152	1	UV-90000181	STEERING CYLINDER ASSEMBLY	
7221	00		153	1	UV-90000069	STEERING CYLINDER ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HYDRAULIC TANK ASSEMBLY

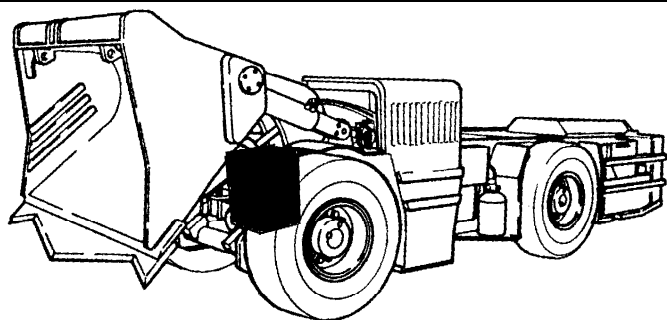
DATE: 17.11.2014
REV: NINETY NINE



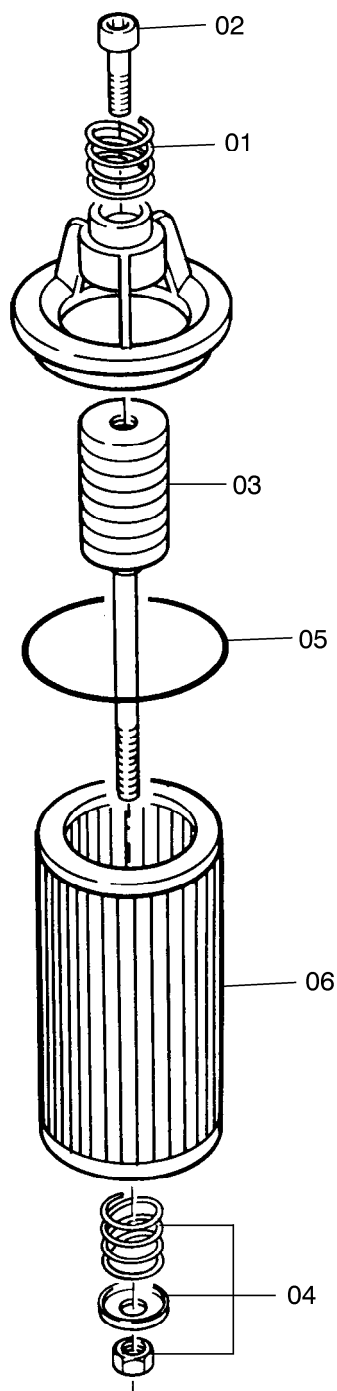
DATE: 17.11.2014 REV: NINETY NINE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER HYDRAULIC TANK ASSEMBLY				Pg 144
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7211	00			1	9000182	HYDRAULIC TANK ASSEMBLY	
	01			1	UV-88600001	COVER	
	02			1	200-EL-4-200	CHAIN - Welded	
	03			1	UV-85800001	S-HOOK	
	04			1	UV-94000074	GASKET	
	05			1	312-389-139530	O-RING	
	06			8	143-M10	WASHER, Spring	
	07			8	109-M10-16	SCREW, Cap	
	08			1	UV-09100436	COVER, Flange	
	09			1	UV-94000108	O-RING	
	10			-	-	-	
	11			1	UV-91900014	BREATHER, Pressurised	
	12			-	-	-	
	13			1	UV-96000008	PLUG, Drain	
	14			1	UV-09100437	COVER	
	15			8	106-M10-20	SCREW, Hex Hd	
	16			8	143-M16	WASHER, Spring	
	17			1	UV-94000071	O-RING	
	18			2	UV-94500014	GLASS, Sight - Oil Level	
	19			2	UV-94000070	GASKET	
	20			8	106-M16-50	SCREW, Hex Hd	
	21			8	143-M16	WASHER, Spring	
	22			8	121-M16	NUT, Hex	
	23			1	9000063	RECEIVER (Optional)	
	24			1	9001679	FUNNEL	
	25			1	9000064	CAP, Receiver (Optional) (Not Illustrated)	
	26			1	UV-71000110	SWITCH, Oil Level	
7212	00		145	1	UV-93000053	RETURN FILTER ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
RETURN FILTER ASSEMBLY

DATE:
REV:



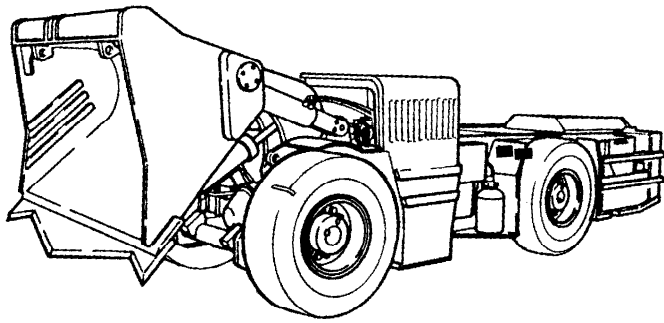
P I
7212 00



DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER RETURN FILTER ASSEMBLY					Pg 145
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7212	00			1	UV-93000053	RETURN FILTER ASSEMBLY	
	01			1	UV-931830701252	SPRING, Pressure	
	02			1	109-M10-30	SCREW, Cap Soc Hex Hd	
	03			1	UV-93000032	SUPPORT, Magnetic	
	04			1	UV-93000033	KIT, Spring Set	
	05			1	UV-93000034	O-RING	
	06			1	UV-93100053	CARTRIDGE, Filter, TXX5A-10-B	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
PISTON PUMP ASSEMBLY

DATE: 14.10.2015
REV: HUNDRED &
THIRTEEN

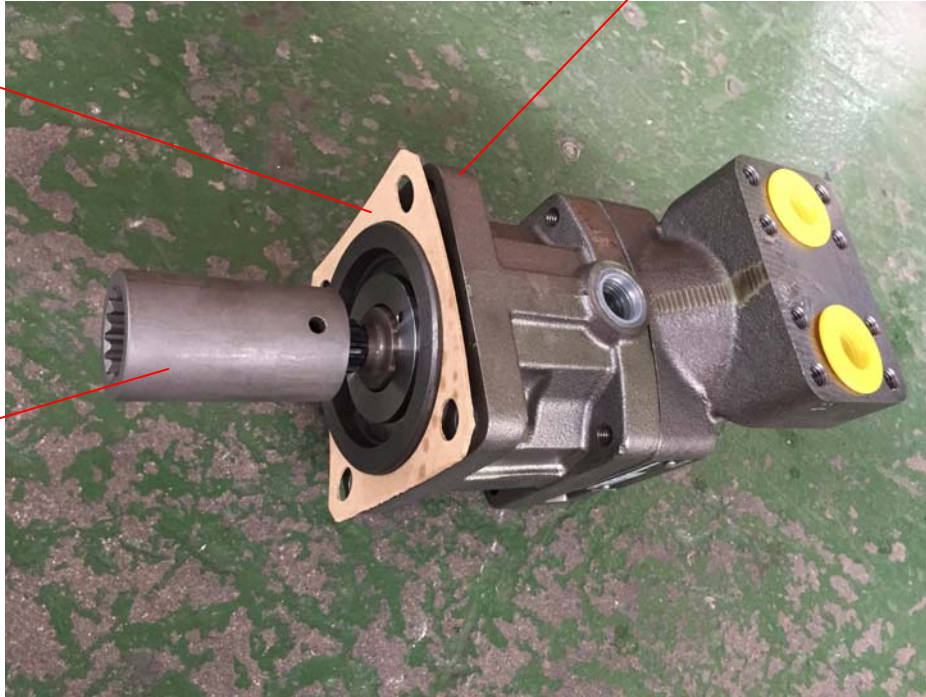


P I
7213 00



01

02



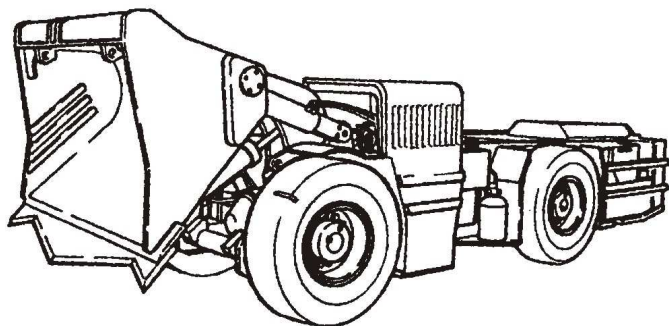
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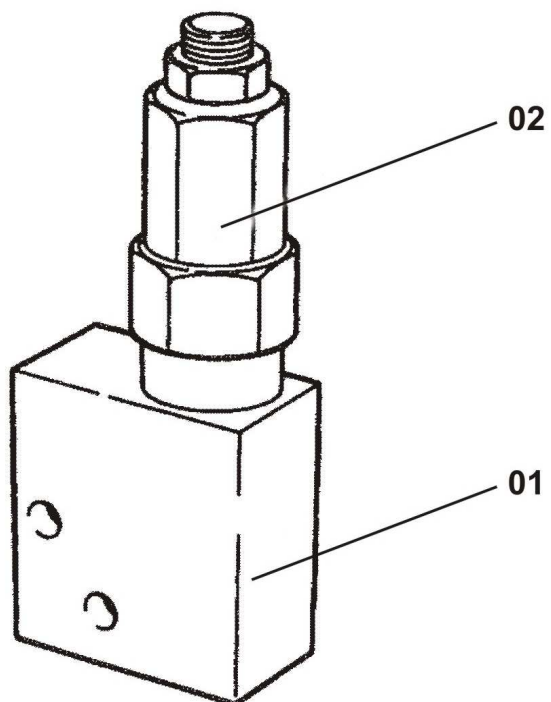
DATE: 14.10.2015 REV: HUNDRED & THIRTEEN		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER PISTON PUMP ASSEMBLY					Pg 146
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7213	00			2	UV-91000028	PISTON PUMP ASSEMBLY 30cc Note: Supplied as a unit	
	01			2	UV-90400050	GASKET (not illustrated)	
	02			2	UV-853235262	COUPLING, Sleeve Converter Pump	
	03			2	UV-90300081	<u>OPTIONAL:</u> PUMP, Gear 29cc	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
PRESSURE RELIEF VALVE ASSEMBLY

DATE: 17.11.2014
REV: NINETY NINE



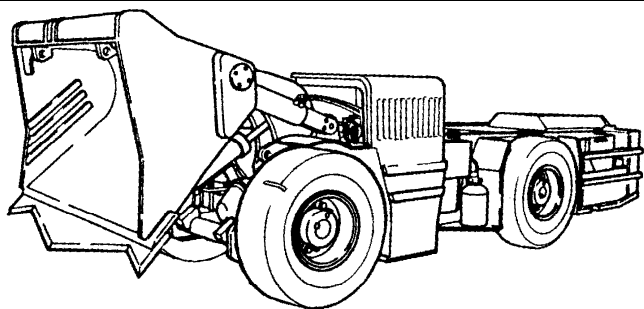
P I
7214 00



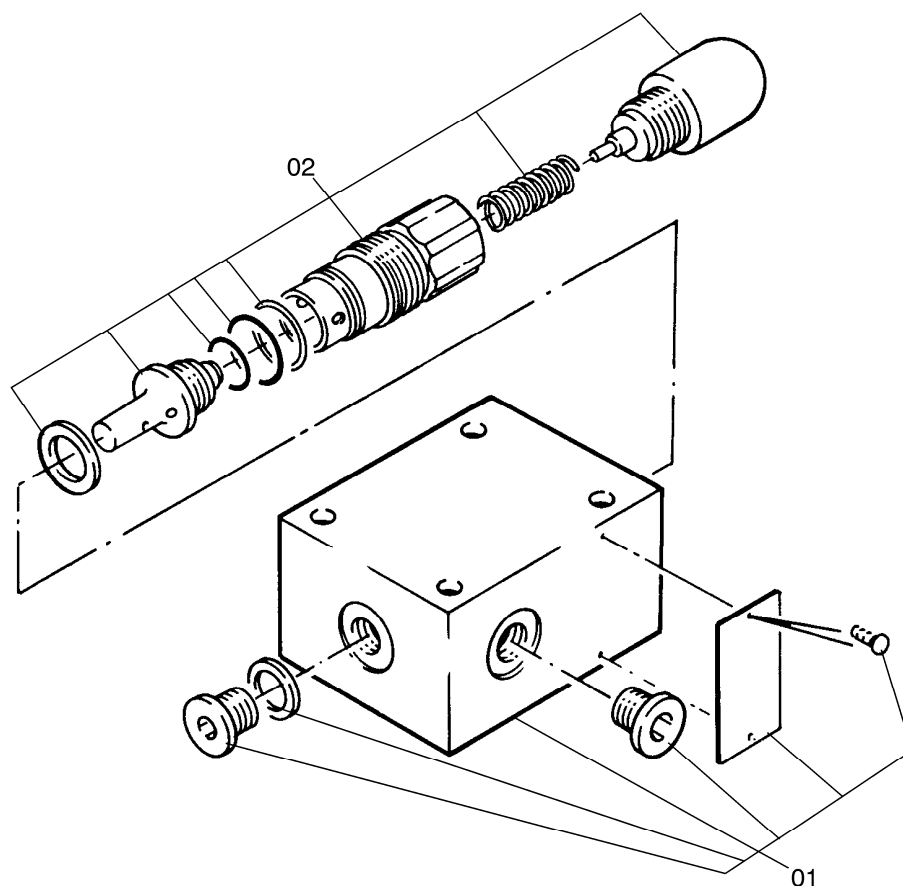
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER PRESSURE RELIEF VALVE ASSEMBLY					Pg 147
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7214	00			1	UV-926V06467300	PRESSURE RELIEF VALVE ASSEMBLY	
	01			1	UV-926H0101110	BODY ASSEMBLY, Valve	
	02			1	UV-92600011	CARTRIDGE ASSEMBLY	
						Note: Supplied as a unit	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
PRESSURE RELIEF VALVE ASSEMBLY**

DATE: 17.11.2014
REV: NINETY NINE



P I
7214 00



DATE: 1917.11.2014
REV: NINETY NINE

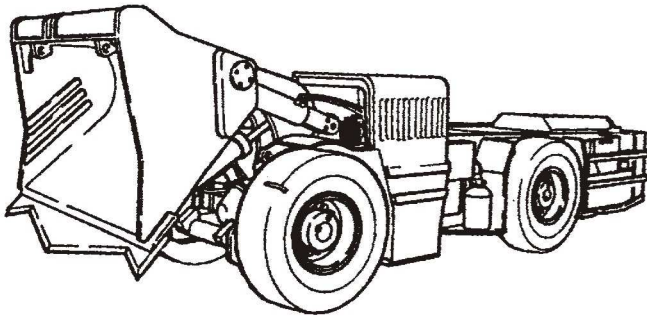
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
PRESSURE RELIEF VALVE ASSEMBLY

Pg 147 (i)

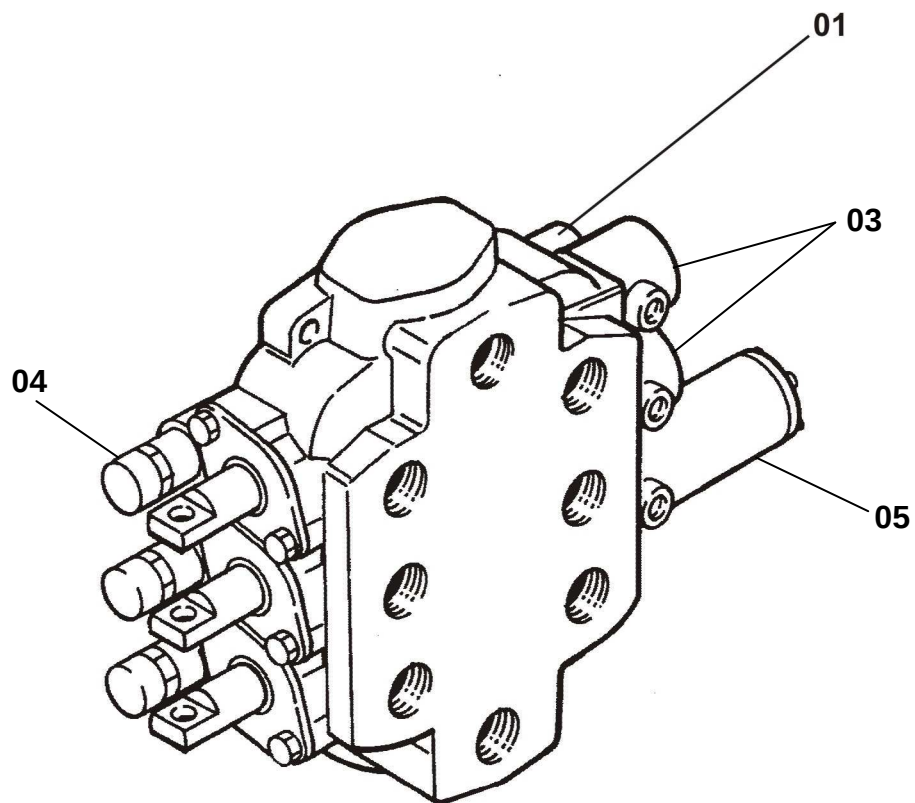
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7214	00			1	UV-92600012	PRESSURE RELIEF VALVE ASSEMBLY	
	01			1	9000032	BODY ASSEMBLY, Valve	
	02			1	9000031	CARTRIDGE ASSEMBLY	
						Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
CONTROL VALVE BANK ASSEMBLY

DATE: 17.11.2014
REV: NINETY NINE



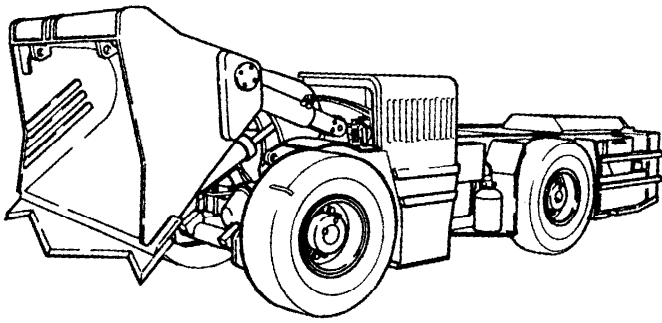
P I
7215 00



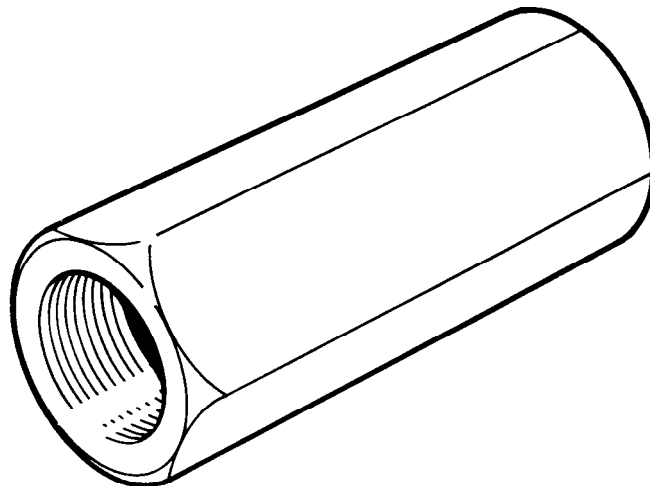
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER CONTROL VALVE BANK ASSEMBLY					Pg 148
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7215	00			1	UV-92300169	CONTROL VALVE BANK ASSEMBLY	
	01			1	UV-94900037	RELIEF VALVE	
	02			1	UV-94000104	SEAL KIT	
	03			2	UV-92400126	COVER 1	
	04			3	UV-92400127	VALVE, Shock	
	05			1	UV-92400130	COVER 2	
						Note: Supplied as a unit	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FLOW CONTROL VALVE ASSEMBLY**

DATE: 17.11.2014
REV: NINETY NINE



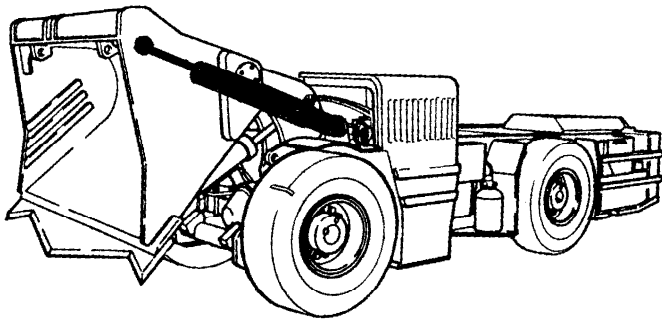
P I
7216 00



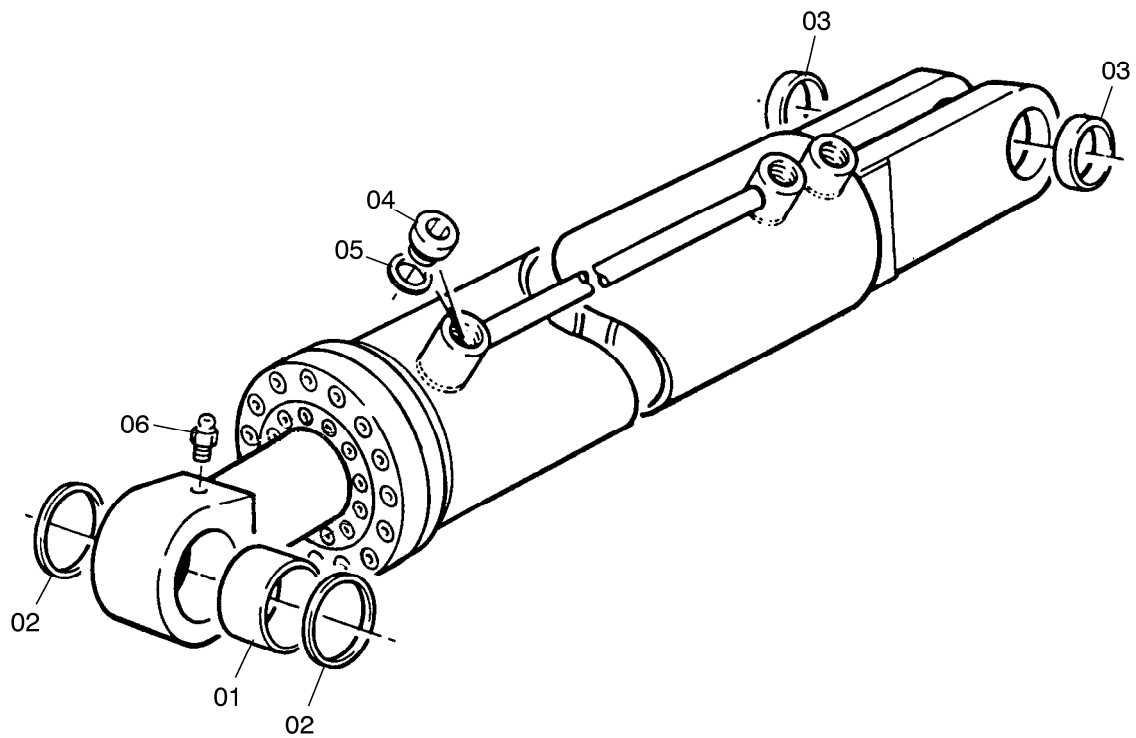
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER FLOW CONTROL VALVE ASSEMBLY					Pg 149
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7216	00			1	UV-926SRE4G12	FLOW CONTROL VALVE ASSEMBLY Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DUMP CYLINDER ASSEMBLY

DATE:
REV:



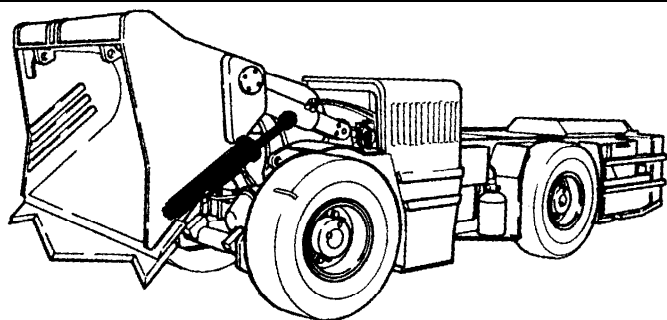
P I
7217 00



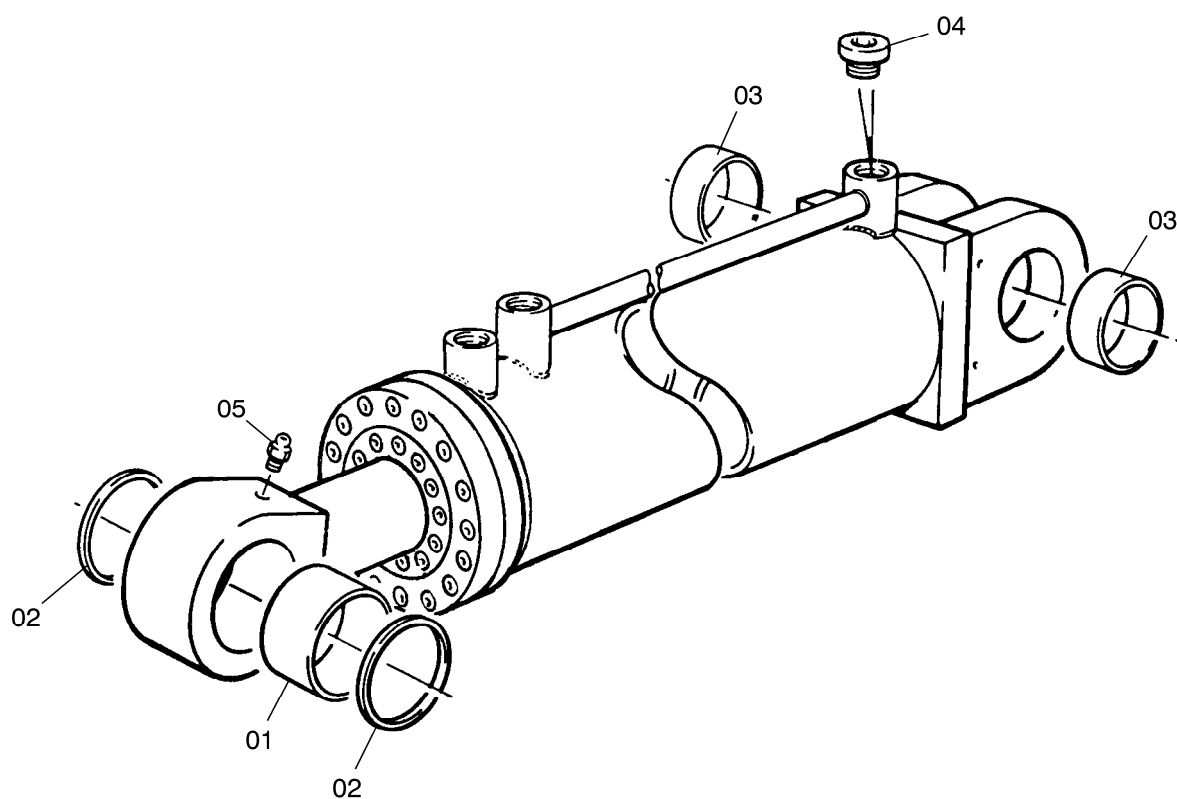
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER DUMP CYLINDER ASSEMBLY					Pg 150
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7217	00			1	9002062	DUMP CYLINDER ASSEMBLY	
	01			1	UV-09100438	BUSH	
	02			2	UV-94000106	GASKET	
	03			2	UV-09100439	BUSH	
	04			1		PLUG	
	05			1	UV-8517603NA22X27	RING	
	06			1	260-M10	ADAPTOR, Grease Straight, Male	
						Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HOIST CYLINDER ASSEMBLY

DATE:
REV:



P I
7218 00



DATE: 01.02.2017
REV: HUNDRED &
TWENTY ONE

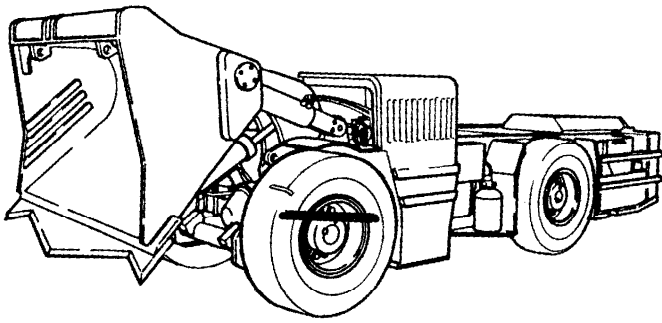
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HOIST CYLINDER ASSEMBLY

Pg 151

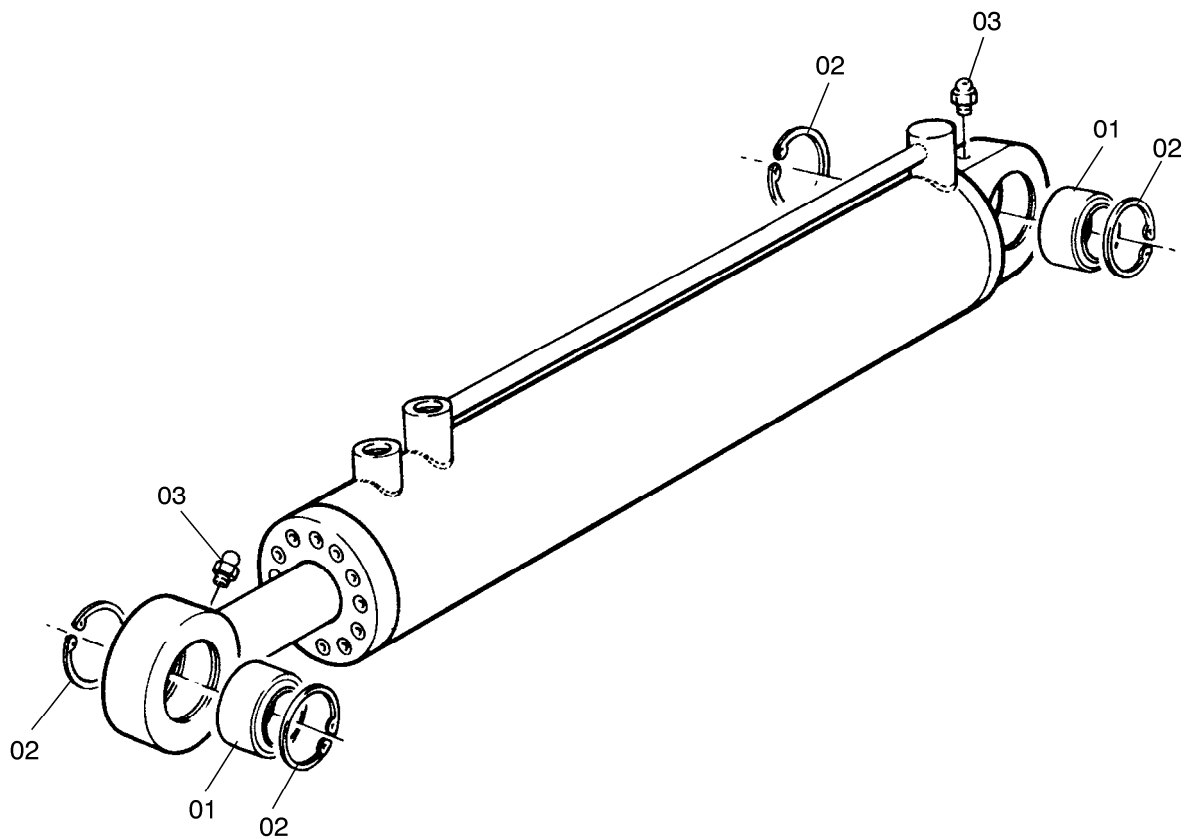
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7218	00			1	UV-90000171	HOIST CYLINDER ASSEMBLY HD	
	01			1	UV-09100438	BUSH	
	02			2	UV-94000107	OIL SEAL	
	03			2	UV-09100439	BUSH	
	04			1		PLUG	
	05			1	260-M10	ADAPTOR, Grease Straight, Male	
						Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
STEERING CYLINDER ASSEMBLY

DATE:
REV:



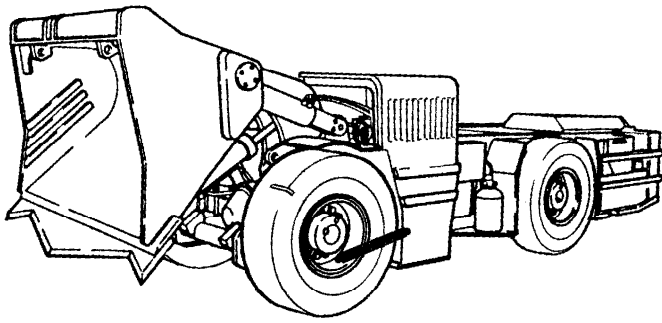
P I
7219 00



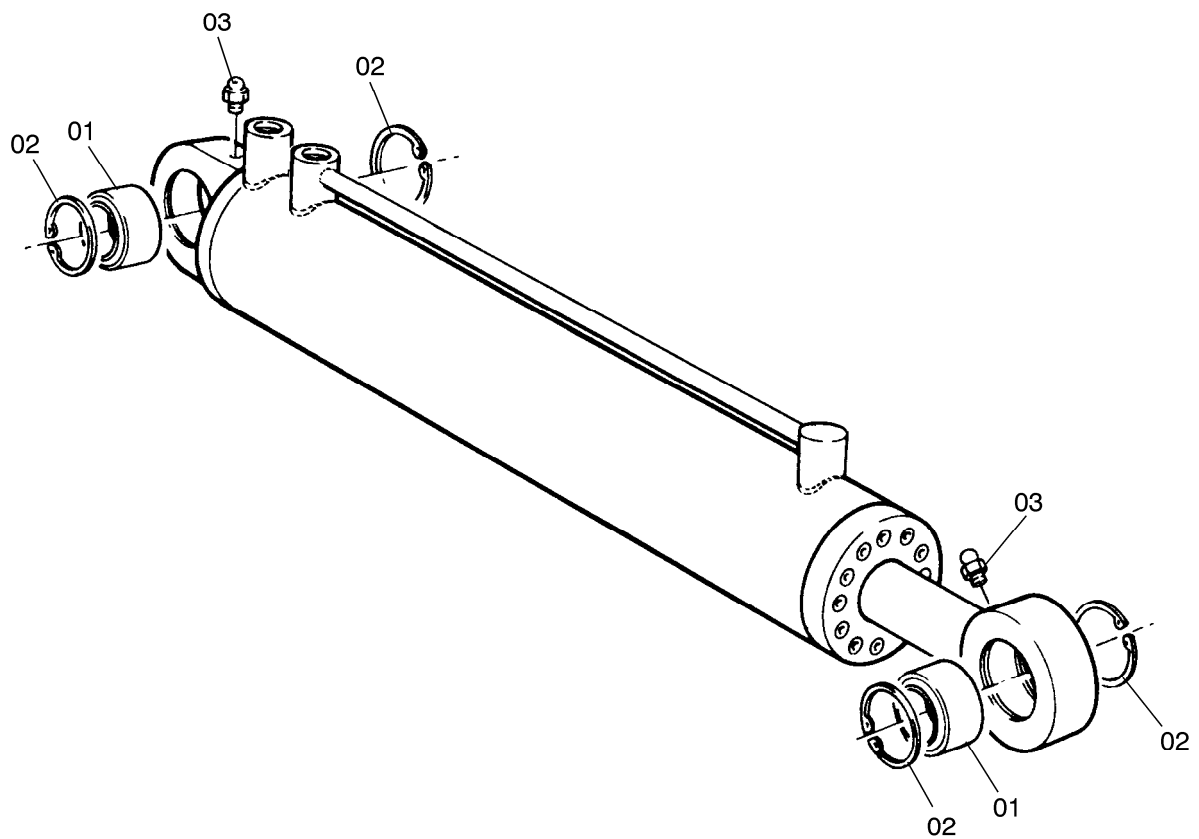
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER STEERING CYLINDER ASSEMBLY					Pg 152
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7219	00			1	UV-90000181	STEERING CYLINDER ASSEMBLY	
	01			2	151-GE50ES-2RS	BEARING	
	02			4	199-M75	CIRCLIP	
	03			2	260-M10	ADAPTOR, Grease Straight, Male	
						Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
STEERING CYLINDER ASSEMBLY

DATE:
REV:



P I
7221 00

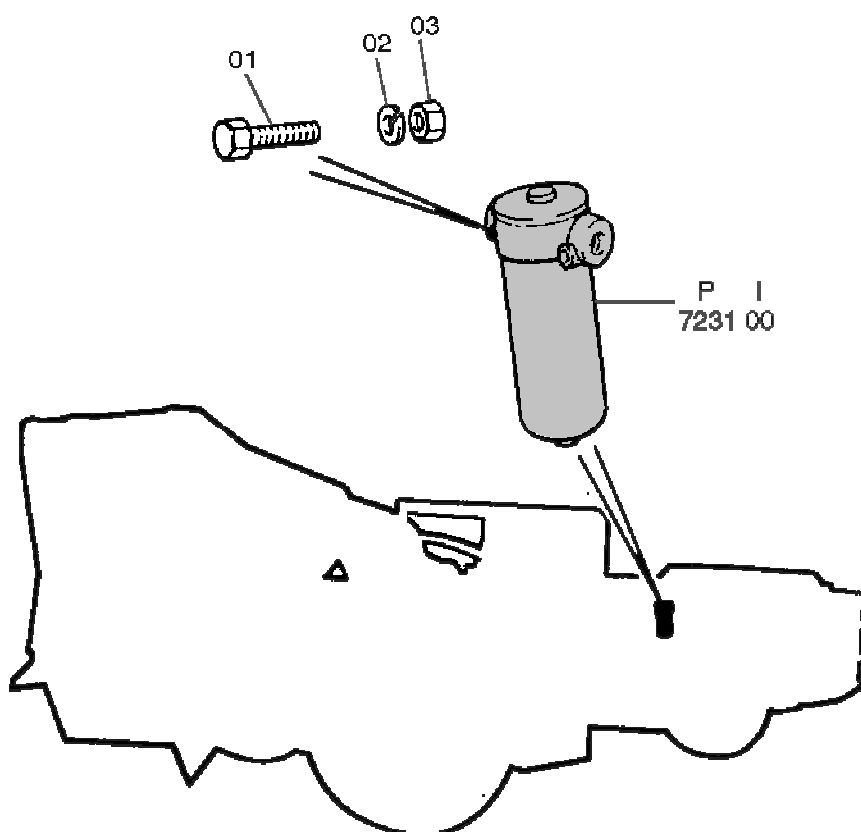


DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER STEERING CYLINDER ASSEMBLY					Pg 153
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7221	00			1	UV-90000069	STEERING CYLINDER ASSEMBLY	
	01			2	151-GE50ES-2RS	BEARING	
	02			4	199-M75	CIRCLIP	
	03			2	260-M10	ADAPTOR, Grease Straight, Male	
						Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HYDRAULIC EQUIPMENT ASSEMBLY -
TORQUE CONVERTOR/TRANSMISSION

DATE: 17.11.2014
REV: NINETY NINE

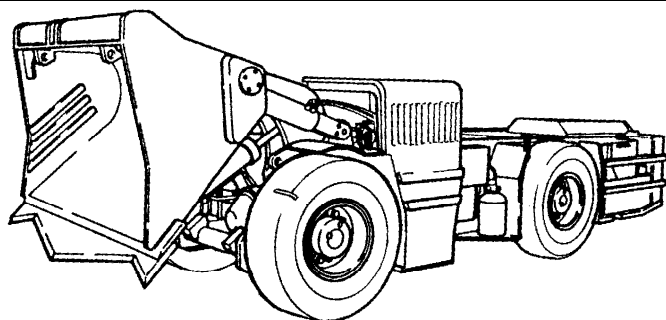
P I
7230 00



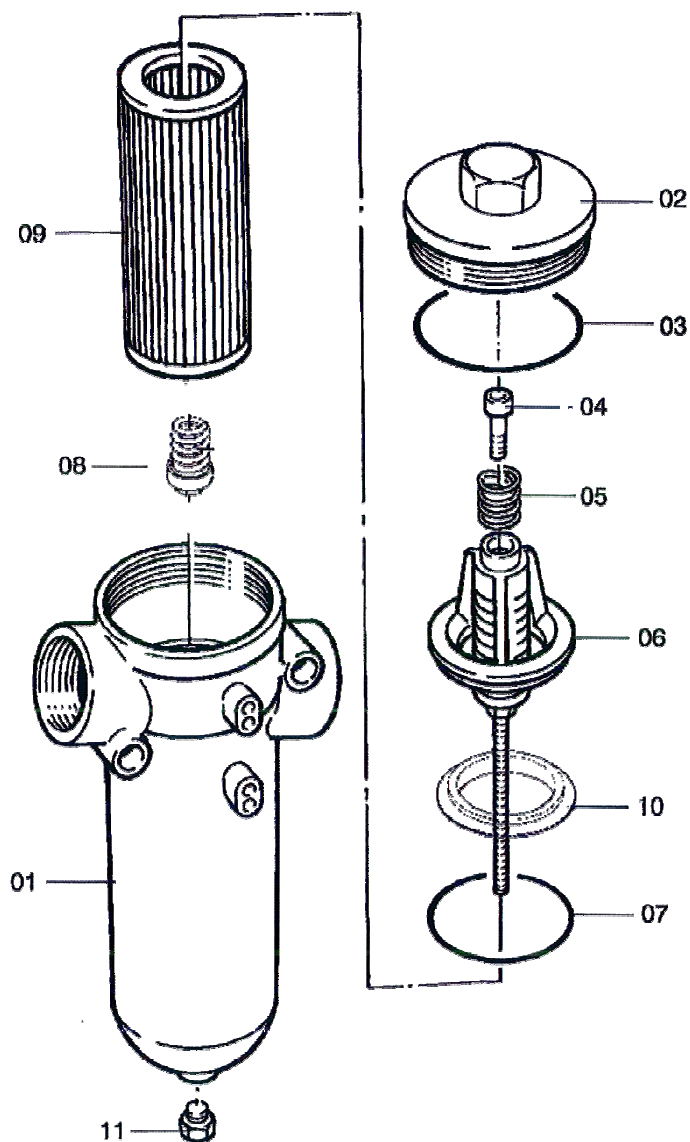
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER HYDRAULIC EQUIPMENT ASSEMBLY - TORQUE CONVERTOR/TRANSMISSION					Pg 154
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7230	00			1	9003326	HYDRAULIC EQUIPMENT ASSEMBLY - TORQUE CONVERTOR/TRANSMISSION	
	01			2	102-M8-80	BOLT, Hex Hd, M8 x 80 lg, Gr 8,8	
	02			2	143-M8	WASHER, Spring, Dia. 8	
	03			2	121-M8	NUT, Hex, M8, Gr 8	
7231	00		155	1	UV-93000048	ARLON FILTER ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ARLON FILTER ASSEMBLY

DATE: 17.11.2014
REV: NINETY NINE



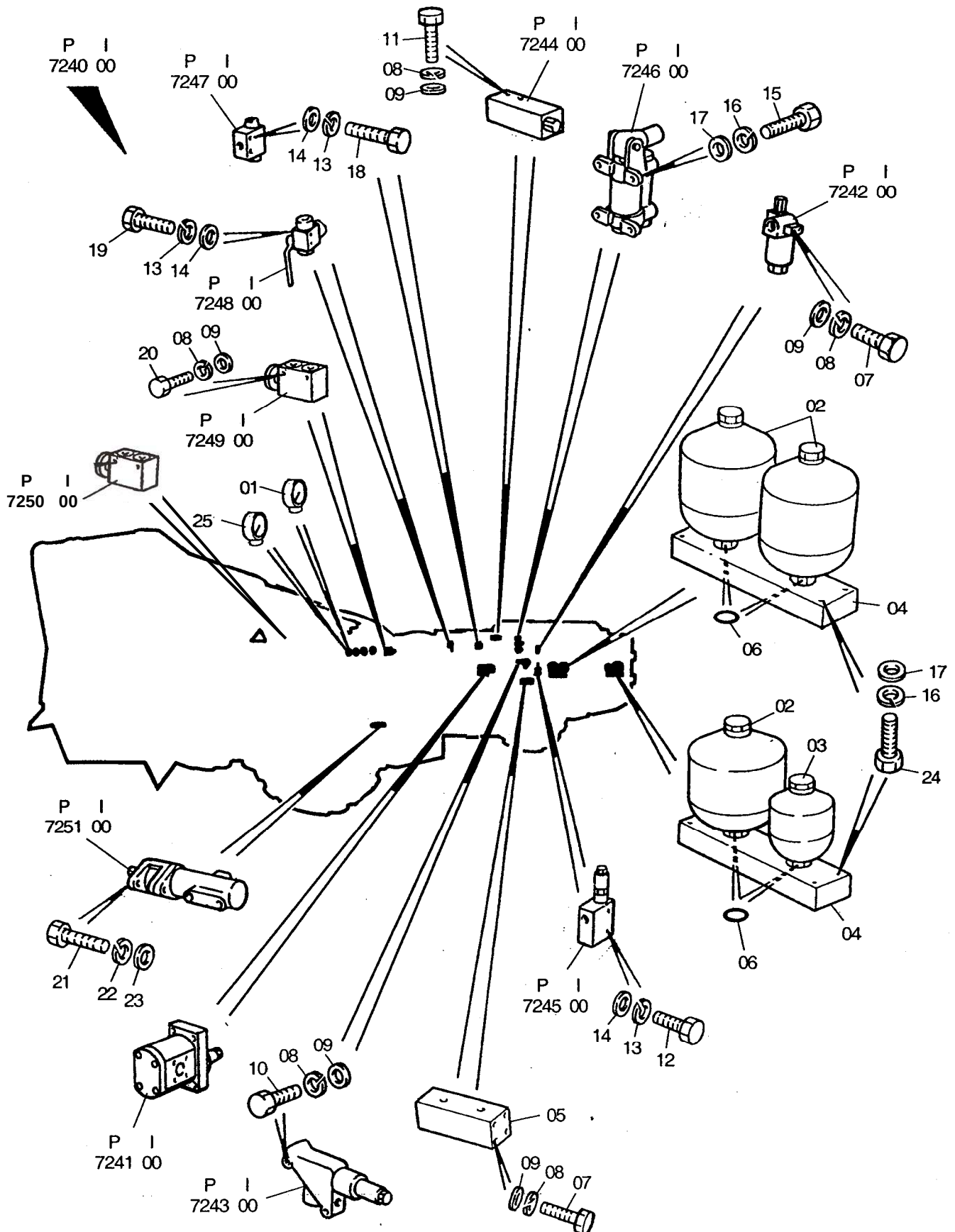
P I
7231 00



DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER ARLON FILTER ASSEMBLY					Pg 155
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7231	00			1	UV-93000048	ARLON FILTER ASSEMBLY	
	01			1		HOUSING	
	02			1	UV-9315842130	COVER	
	03			1	UV-931SOR66	O-RING	
	04			1		SCREW, Cap Soc Hex Hd	
	05			1	UV-93148371201	SPRING	
	06			1		FASTENER, Filter	
	07			1	UV-931SOR64	O-RING	
	08			1	UV-9314903001	SPRING ASSEMBLY	
	09			1	UV-93100043	CARTRIDGE, Filter	
	10			1	UV-931811415031	BYPASS SEAL	
	11			1	UV-931840106601	PLUG, Drain	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HYDRAULIC EQUIPMENT ASSEMBLY - BRAKE

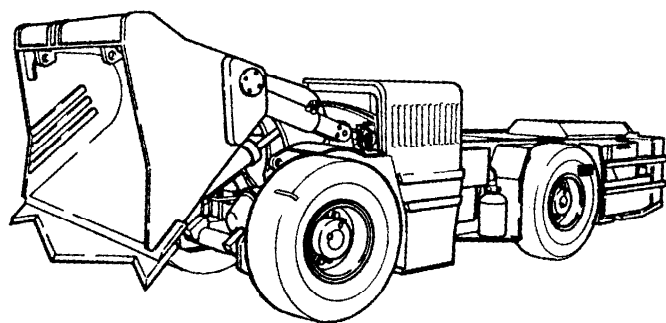
DATE: 17.11.2014
REV: NINETY NINE



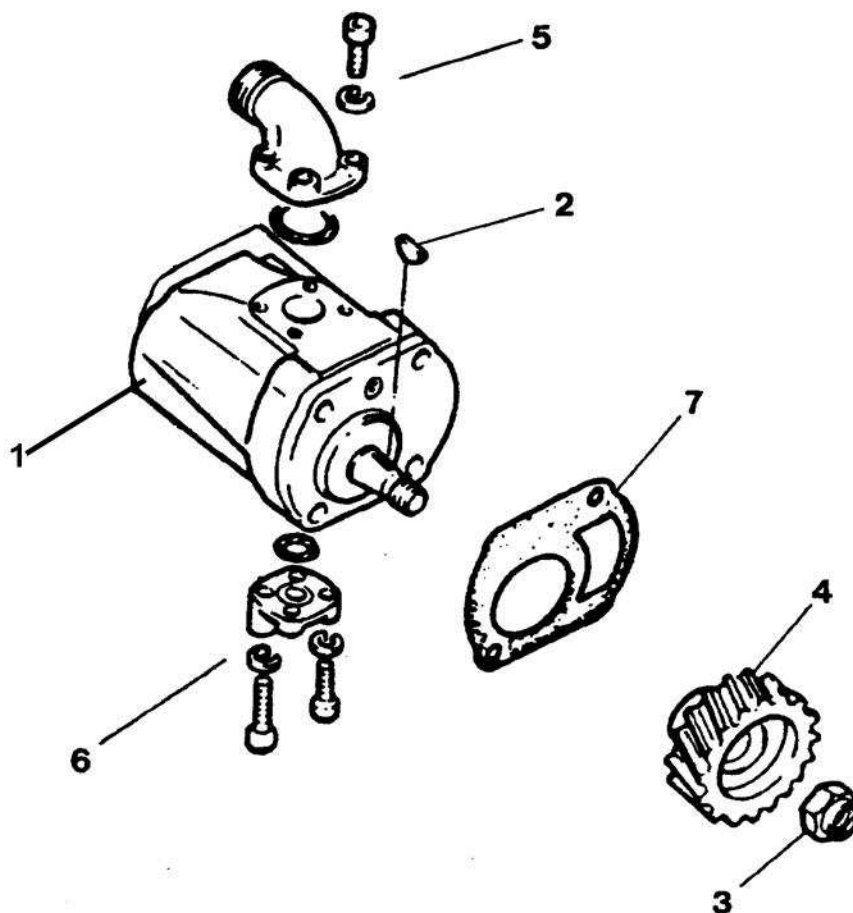
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER HYDRAULIC EQUIPMENT ASSEMBLY - BRAKE					Pg 156
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7240	00			1	9002199	HYDRAULIC EQUIPMENT ASSEMBLY - BRAKE	
	01			2	UV-91400048	GAUGE, Pressure, 0 - 25 MPA	
	02			3	UV-91300027	ACCUMULATOR ASSEMBLY - 1,4L	
	03			1	UV-91300003	ACCUMULATOR ASSEMBLY - 0,7L	
	04			2	UV-09100348	BLOCK ASSEMBLY, Manifold 50 x 110 x 310	
	05			1	UV-95000037	BLOCK ASSEMBLY, Accumulator, SP 1 x 3/4", 4 x 3/8"	
	06			4	UV-87800003	WASHER, Seal, Dia. 1"	
	07			6	102-M8-20	BOLT, Hex Hd, M8 x 20 lg	
	08			12	143-M8	WASHER, Spring, Dia. 8	
	09			12	141-M8	WASHER, Flat, Dia. 8	
	10			2	102-M8-75	BOLT, Hex Hd, M8 x 75 lg	
	11			2	102-M8-50	BOLT, Hex Hd, M8 x 50 lg	
	12			2	102-M6-40	BOLT, Hex Hd, M6 x 40 lg	
	13			6	143-M6	WASHER, Spring, Dia. 6	
	14			6	141-M6	WASHER, Flat, Dia. 6	
	15			4	105-M10-25	SCREW, Hex Hd, M10 x 25 lg	
	16			12	143-M10	WASHER, Spring, Dia. 10	
	17			12	141-M10	WASHER, Flat, Dia. 10	
	18			2	102-M6-35	BOLT, Hex Hd, M6 x 35 lg	
	19			2	105-M6-15	SCREW, Hex Hd, M6 x 15 lg	
	20			2	102-M8-60	BOLT, Hex Hd, M8 x 60 lg	
	21			2	102-3/8"UNC-50	SCREW, Hex Hd, 3/8" UNC x 50 lg	
	22			2	143-6	WASHER, Spring, Dia. 3/8"	
	23			2	141-6	WASHER, Flat, Dia. 3/8"	
	24			8	102-M10-75	BOLT, Hex Hd, M10 x 75 lg	
	25			3	9000932	PRESSURE GAUGE (0 – 40 MPa)	
7241	00		157	1	UV-90300013	GEAR PUMP ASSEMBLY	
7242	00		158	1	9000022	HIGH PRESSURE FILTER ASSEMBLY	
7243	00		159	1	UV-90900057	PRESSURE CONTROL VALVE ASSEMBLY	
7244	00		160	1	UV-90900005	NEUTRAL VALVE ASSEMBLY	
7245	00		161	1	UV-9261DR35P3W205	PRESSURE RELIEF VALVE ASSEMBLY	
7246	00		162	1	UV-0101112	HAND PUMP ASSEMBLY	
7247	00		163	1	UV-9235V10235	SHUTTLE VALVE ASSEMBLY	
7248	00		164	1	UV-92200021	3 WAY BALL VALVE ASSEMBLY	
7251	00		167	1	9000021	BRAKE VALVE ASSEMBLY	
7249	00		165	1	UV-90900020	OPTIONAL PARK BRAKE MUSHROOM VALVE ASSEMBLY	
7250	00		166	1	9000974	OPTIONAL SEAT BRAKE MUSHROOM VALVE, with spring	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
GEAR PUMP ASSEMBLY

DATE: 17.11.2014
REV: NINETY NINE



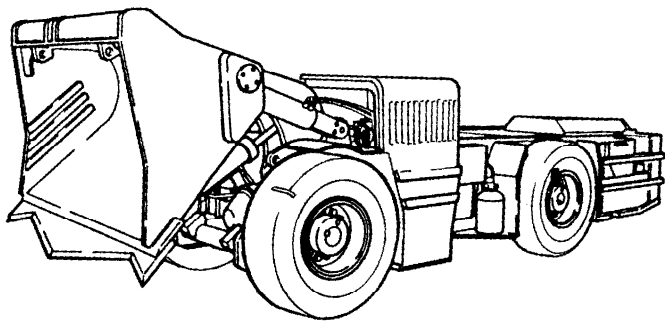
P I
7241 00



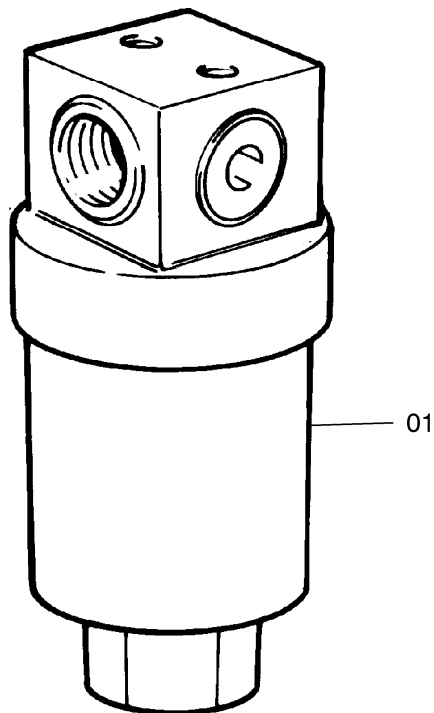
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER GEAR PUMP ASSEMBLY					Pg 157
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7241	00			1	UV-90300013	GEAR PUMP ASSEMBLY	
	01			1	UV-90300021	PUMP, Single Gear (including Items 2 & 3)	
	02			1	UV-90400011	KEY, Pump Drive Shaft	
	03			1	UV-90400006	NUT, Pump Drive Shaft	
	04			1	UV-90400005	GEAR, Pump Drive	
	05			1	UV-91600008	SUCTION FLANGE KIT, 90°	
	06			1	UV-91600009	DELIVERY FLANGE KIT, Straight	
	07			1	UV-82100178	GASKET	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HIGH PRESSURE FILTER ASSEMBLY

DATE:
REV:



P I
7242 00

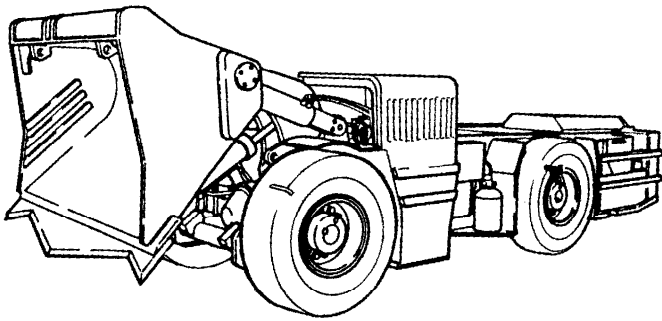


ITEM NOT ILLUSTRATED - 01

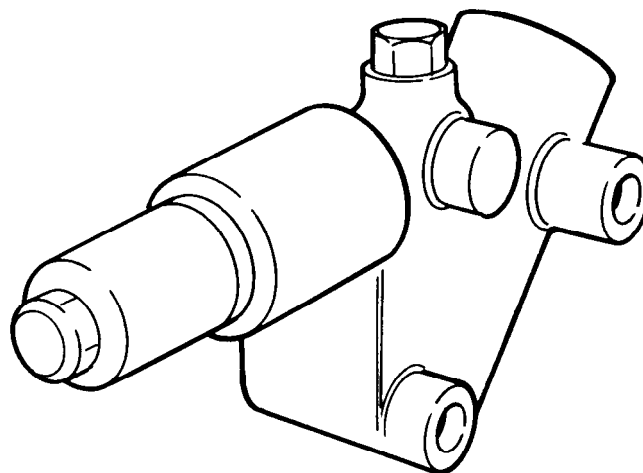
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER HIGH PRESSURE FILTER ASSEMBLY					Pg 158
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7242	00 01			1 1	9000022 9000023	HIGH PRESSURE FILTER ASSEMBLY ELEMENT, Filter (Not Illustrated) Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
PRESSURE CONTROL VALVE ASSEMBLY

DATE:
REV:



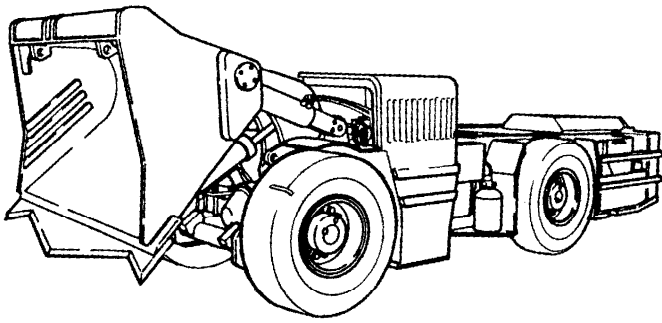
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7243 00



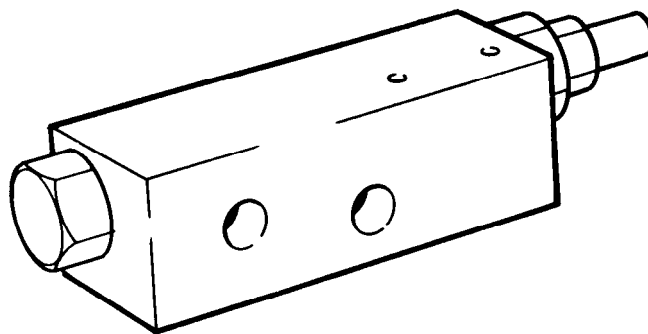
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER PRESSURE CONTROL VALVE ASSEMBLY					Pg 159
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7243	00			1	UV-90900057	PRESSURE CONTROL VALVE ASSEMBLY Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
NEUTRAL VALVE ASSEMBLY

DATE:
REV:



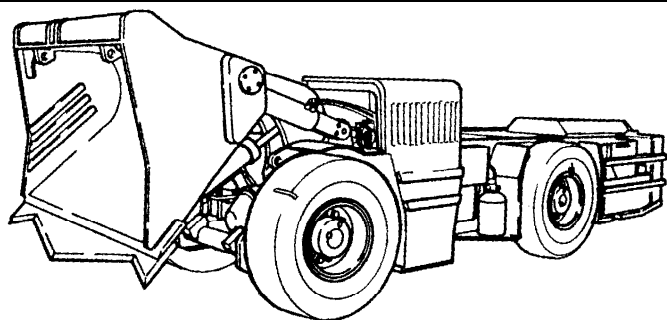
P I
7244 00



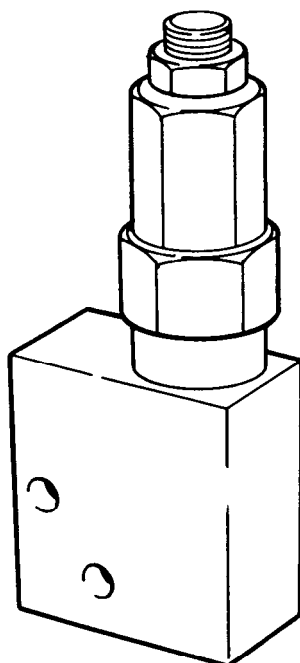
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER NEUTRAL VALVE ASSEMBLY					Pg 160
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7244	00			1	UV-90900005	NEUTRAL VALVE ASSEMBLY	
				1	9001299	SEAL KIT, Neutral Brake	
						Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
PRESSURE RELIEF VALVE ASSEMBLY

DATE:
REV:



P I
7245 00



DATE:
REV:

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
PRESSURE RELIEF VALVE ASSEMBLY

Pg 161

Pos
P

Item
I

Comm.
No.

See
Page

Qty

Part No.

Description

Dwg. No.

7245 00

1

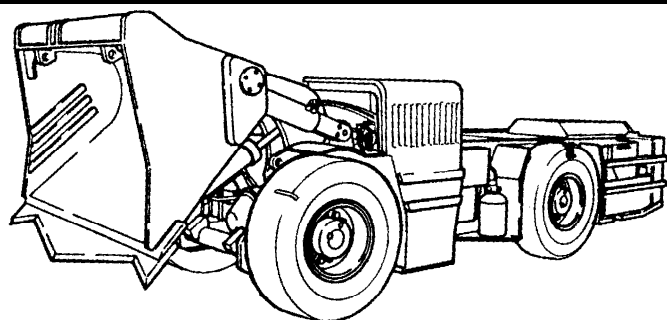
UV-9261DR35P3W205

PRESSURE RELIEF VALVE ASSEMBLY

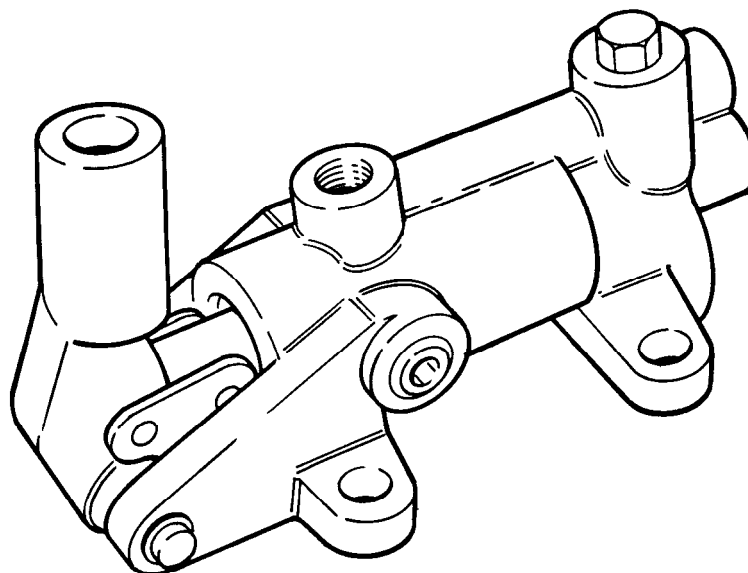
Note: Supplied as a unit

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HAND PUMP ASSEMBLY

DATE:
REV:



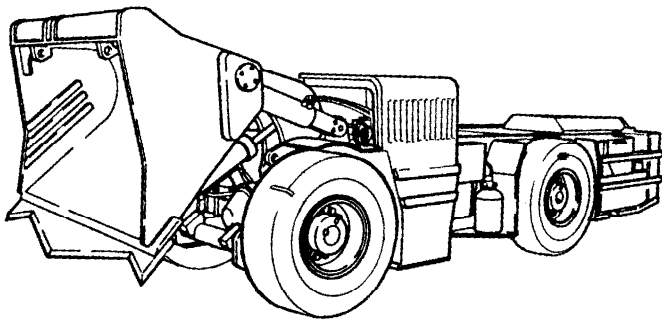
P I
7246 00



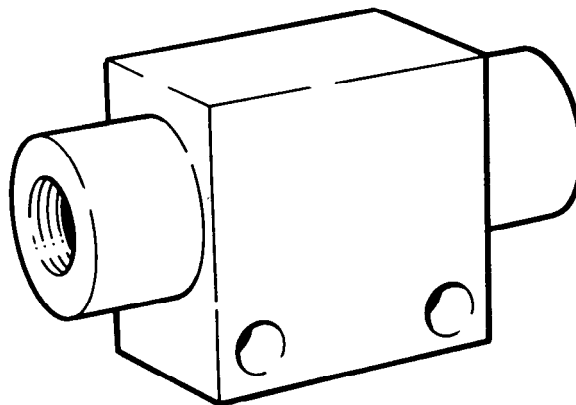
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER HAND PUMP ASSEMBLY					Pg 162
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7246	00			1	UV-0101112	HAND PUMP ASSEMBLY Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
SHUTTLE VALVE ASSEMBLY

DATE:
REV:



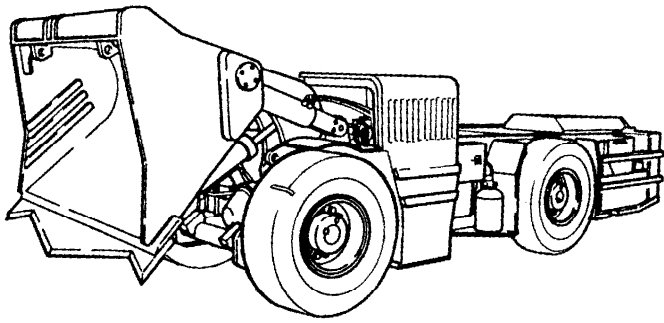
P I
7247 00



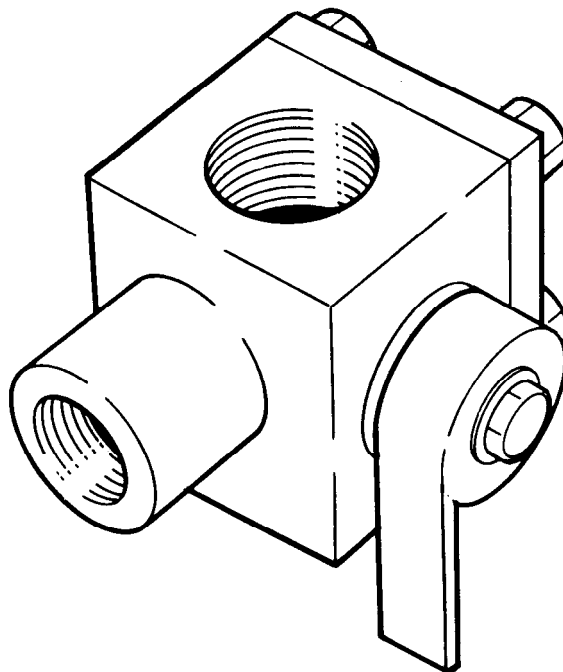
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER SHUTTLE VALVE ASSEMBLY					Pg 163
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7247	00			1	UV-9235V10235	SHUTTLE VALVE ASSEMBLY Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
3 WAY BALL VALVE ASSEMBLY

DATE:
REV:



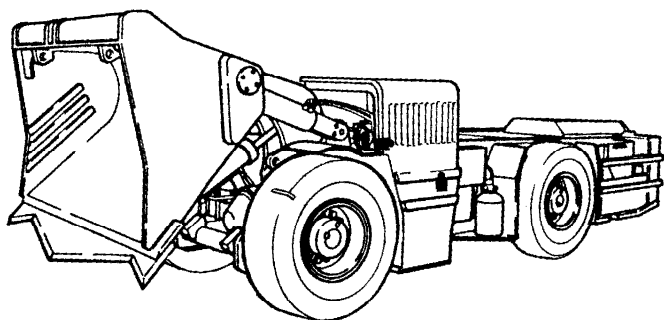
P I
7248 00



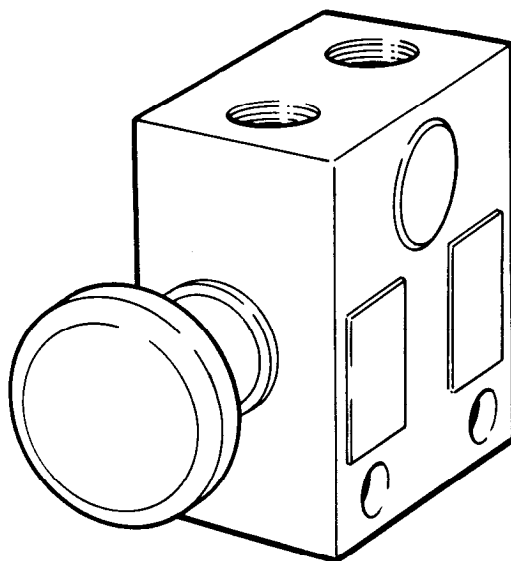
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER 3 WAY BALL VALVE ASSEMBLY					Pg 164
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7248	00			1	UV-92200021	3 WAY BALL VALVE ASSEMBLY Note: Supplied as a unit	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
PARK BRAKE MUSHROOM VALVE ASSEMBLY**

DATE: 17.11.2014
REV: NINETY NINE



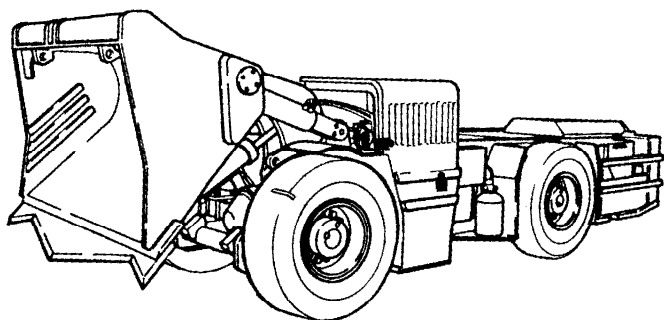
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7249 00



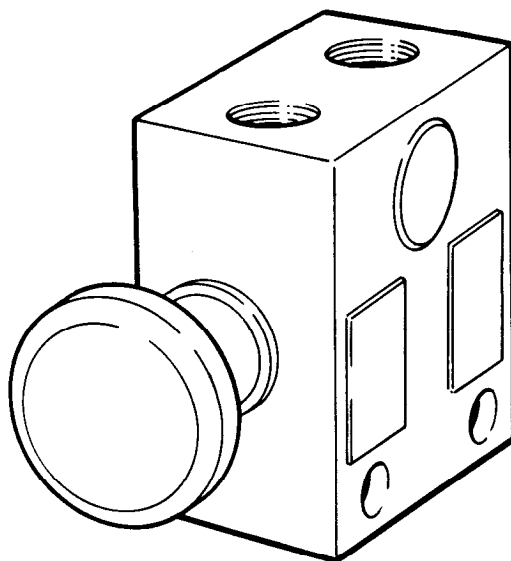
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER PARK BRAKE MUSHROOM VALVE ASSEMBLY					Pg 165
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7249	00			1/2	UV-90900020	PARK BRAKE MUSHROOM VALVE ASSEMBLY Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
SEAT BRAKE MUSHROOM VALVE

DATE: 17.11.2015
REV: NINETY NINE



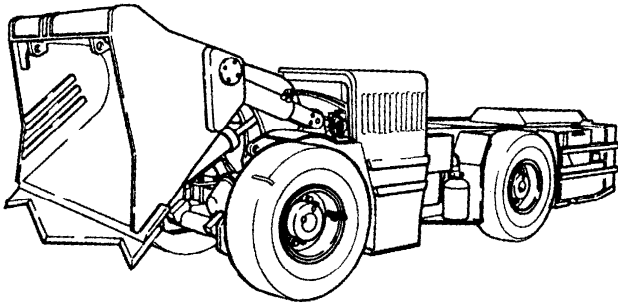
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7250 00



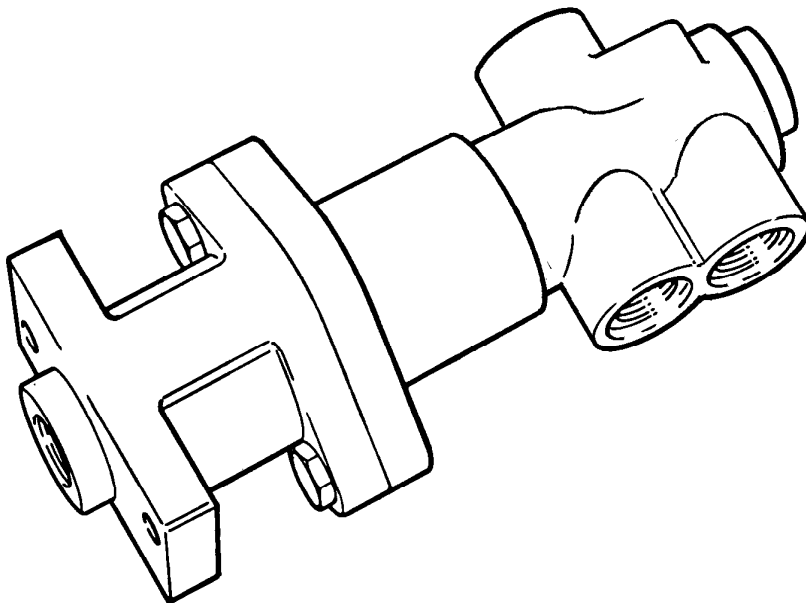
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER SEAT BRAKE MUSHROOM VALVE					Pg 166
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7250	00			1	9000794	SEAT BRAKE MUSHROOM BRAKE VALVE, with spring Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BRAKE VALVE ASSEMBLY

DATE:
REV:



P I
7251 00



DATE: 17.11.2014
REV: NINETY NINE

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BRAKE VALVE ASSEMBLY

Pg 167

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
7251	00			1	9000021	BRAKE VALVE ASSEMBLY Note: Supplied as a unit	

DATE: 01.02.2017 REV: HUNDRED & TWENTY ONE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER DUMP/HOIST/STEERING HYDRAULIC CIRCUIT				Pg 168
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1	UV-18800320	DUMP/HOIST/STEERING HYDRAULIC CIRCUIT	
	A			1	UV-90000181	STEERING CYLINDER R/H	
	A1			1	UV-90000069	STEERING CYLINDER L/H	
	B			1	UV-90000171	HOIST CYLINDER HD	
	C			1	9002062	DUMP CYLINDER	
	9			2	UV-91000028	PISTON PUMP ASSEMBLY	
	53			1	UV-93000053	RETURN FILTER ASSEMBLY	
	51			1	UV-92600012	PRESSURE RELIEF VALVE, CARTRIDGE	
	55			1	UV-928SRE4G12	FLOW CONTROL VALVE	
	56			1	UV-92300169	DUMP, HOIST AND STEERING VALVE	
	57			1	UV-926V06467300	MAIN RELIEF VALVE	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BRAKE & COOLING CIRCUIT**

DATE: 01.02.2017
REV: HUNDRED &
TWENTY ONE

SEE A3 CIRCUIT DIAGRAM

DATE: 17.11.2014
REV: NINETY NINE

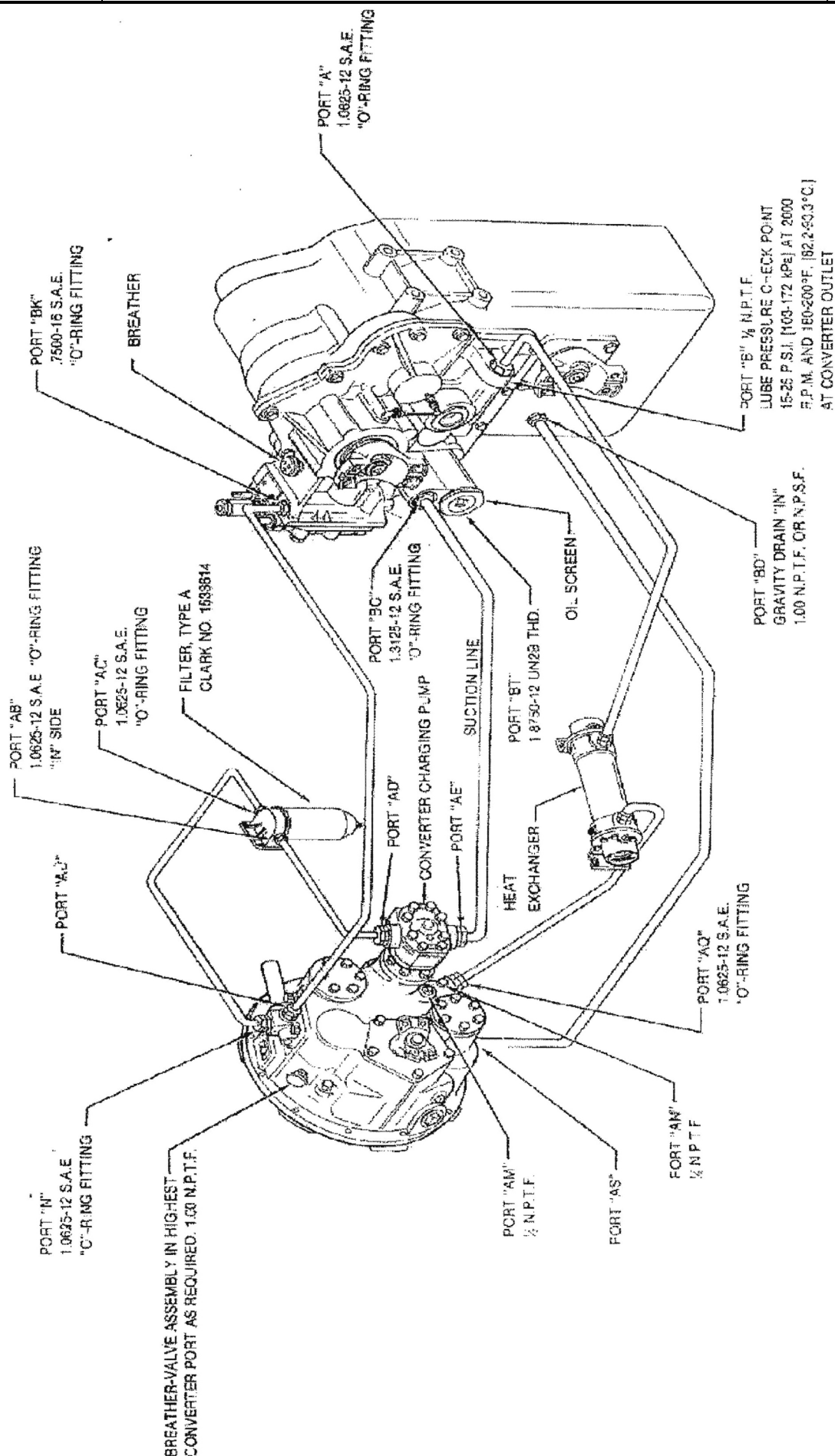
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BRAKE & COOLING CIRCUIT

Pg 169

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1	UV-18800320	BRAKE & COOLING CIRCUIT HD	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
HYDRAULIC CIRCUIT TRANSMISSION & ACC

DATE: 17.11.2014
 REV: NINETY NINE



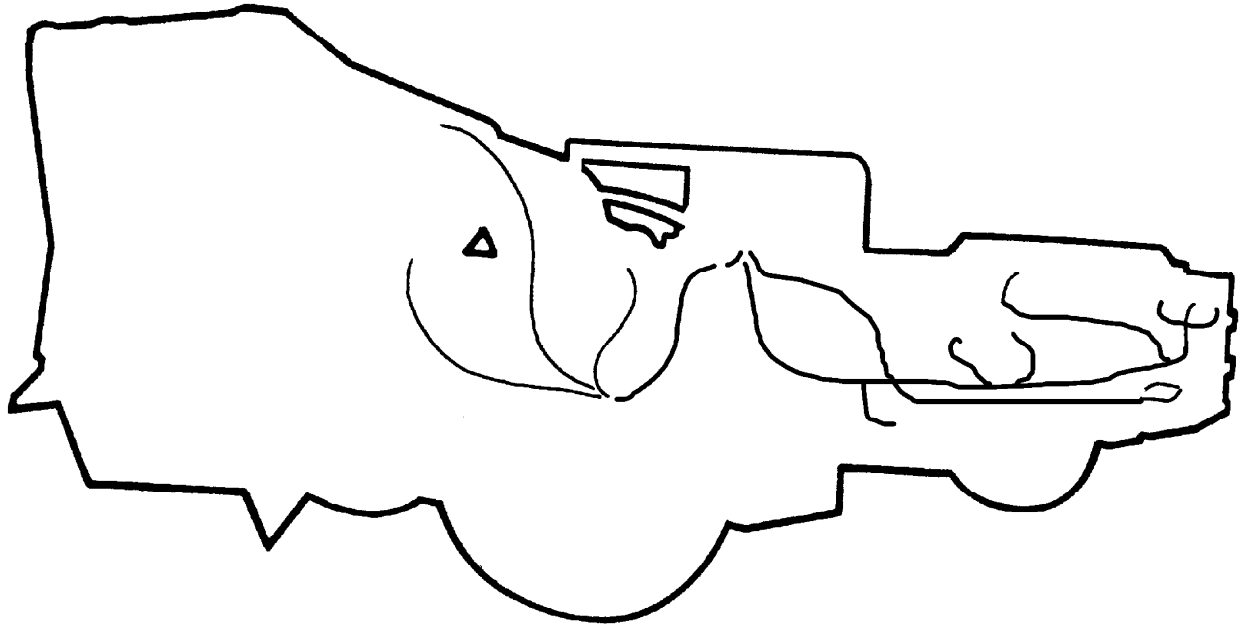
NOTE:
 READ WITH 9002189: 9001189

DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER HYDRAULIC CIRCUIT TRANSMISSION & ACC					Pg 170
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1	9003326	HYDRAULIC CIRCUIT TRANSMISSION & ACC	
1				1	UV-85345023CI	CHARGING PUMP	
2				1	UV-93000048	FILTER ASSEMBLY	
3				1	UV-852292920	TORQUE CONVERTOR	
4				1	UV-853214969	PRESSURE REGULATING VALVE ASSEMBLY	
5				1	UV-82100069	OIL COOLER	
6				1	UV-71900006	TEMPERATURE GAUGE	
7				1	UV-853237875	MODULATOR VALVE ASSEMBLY	
8				1	UV-8524262045	TRANSMISSION	
9				1	UV-853235819	GEAR SELECTOR VALVE	
10				1	UV-87900002	HYDRAULIC ACCELERATOR PEDAL	
11				1	UV-92300050	HYDRAULIC ACTUATOR	
12					UV-91400048	PRESSURE GAUGE	
13					SEE TRANSMISN	ADAPTOR PLATE	
14					UV-9235V10235	SHUTTLE VALVE	

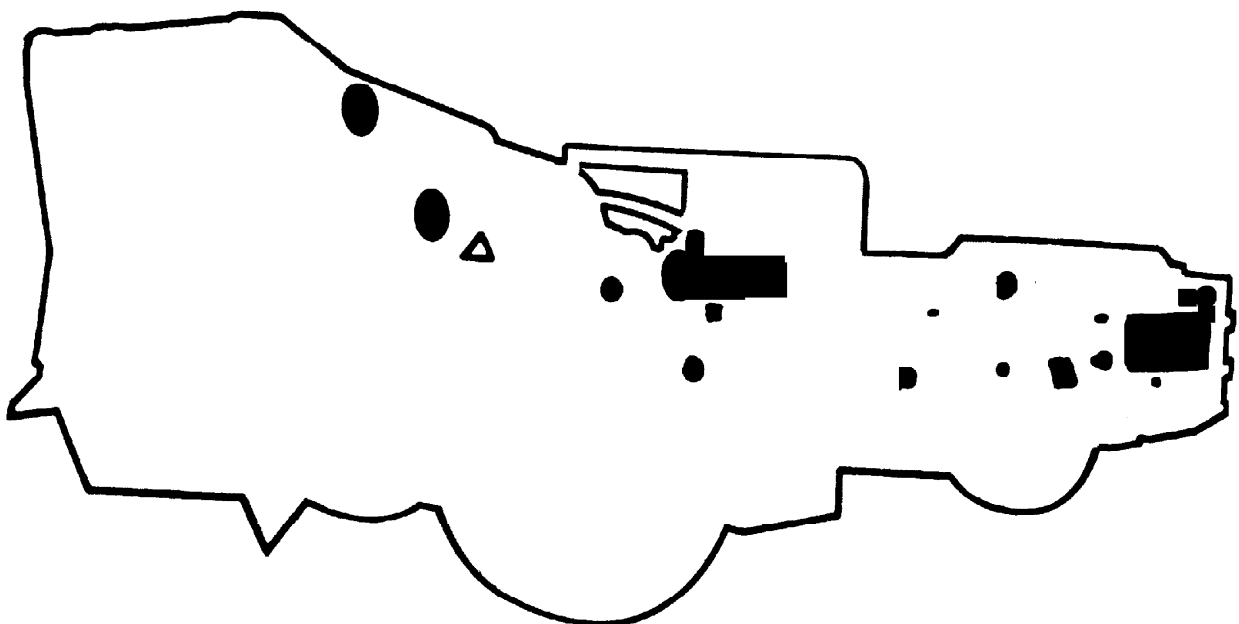
**PAGES 171 TO 190 LEFT BLANK
FOR FUTURE USE**

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ELECTRICAL GROUP

DATE:
REV:



P I
9100 00



P I
9200 00

DATE: 01.02.2017
REV: HUNDRED &
TWENTY ONE

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ELECTRICAL GROUP

Pg 191

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
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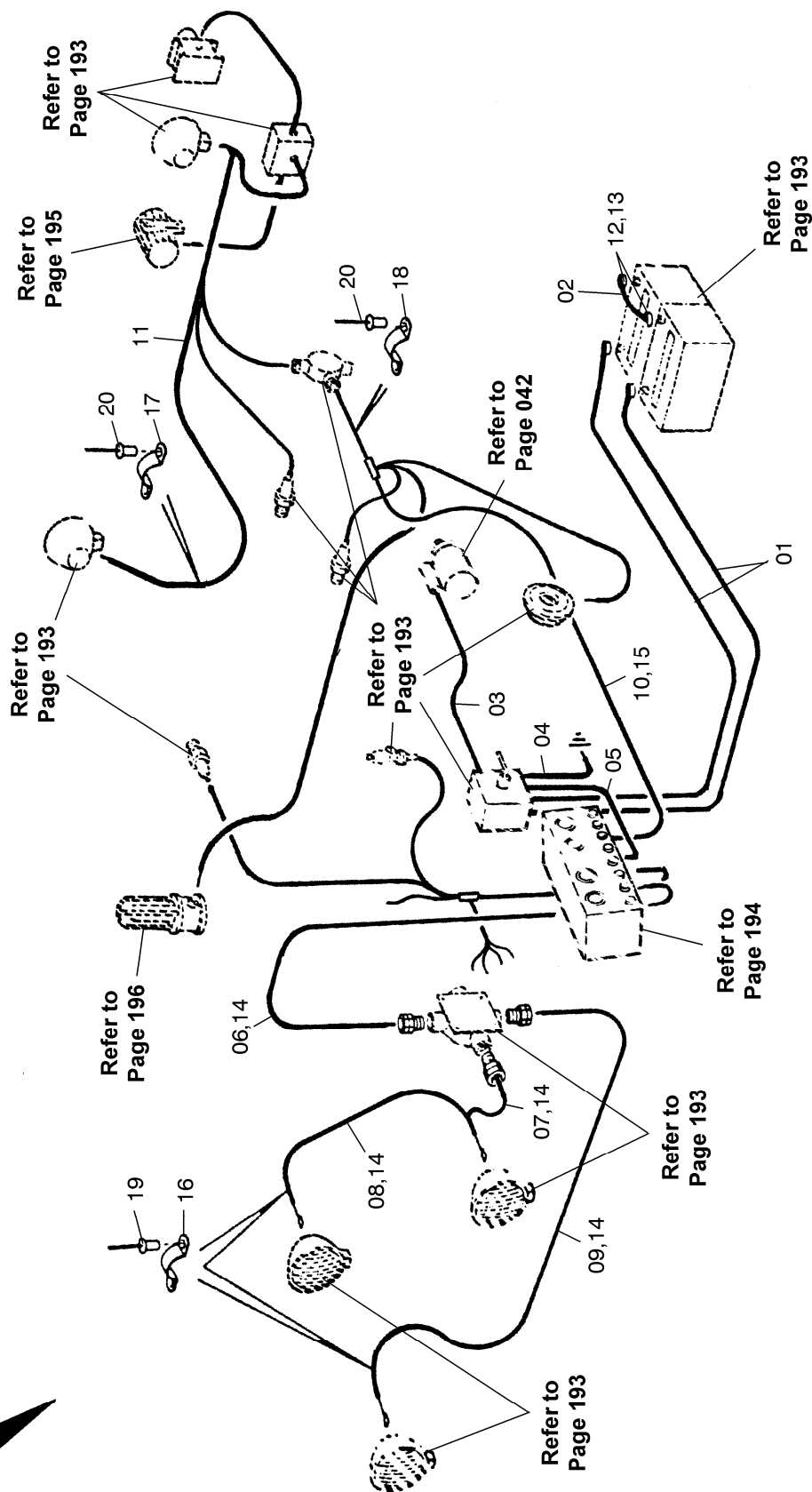
9000	00			1		ELECTRICAL GROUP	
9100	00		192	1	UV-18700143	ELECTRICAL CIRCUIT ASSEMBLY	
9200	00		193	1	UV-18700143	ELECTRICAL EQUIPMENT ASSEMBLY	

Note: Manufacturers Electrical Schematic Diagrams
are located at the back of this group

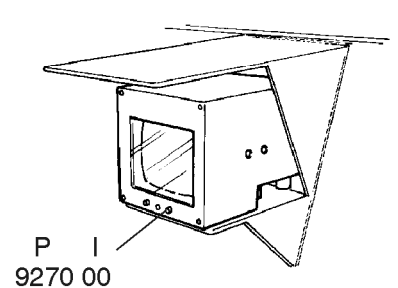
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ELECTRICAL CIRCUIT ASSEMBLY

DATE:
REV:

P I
9100 00



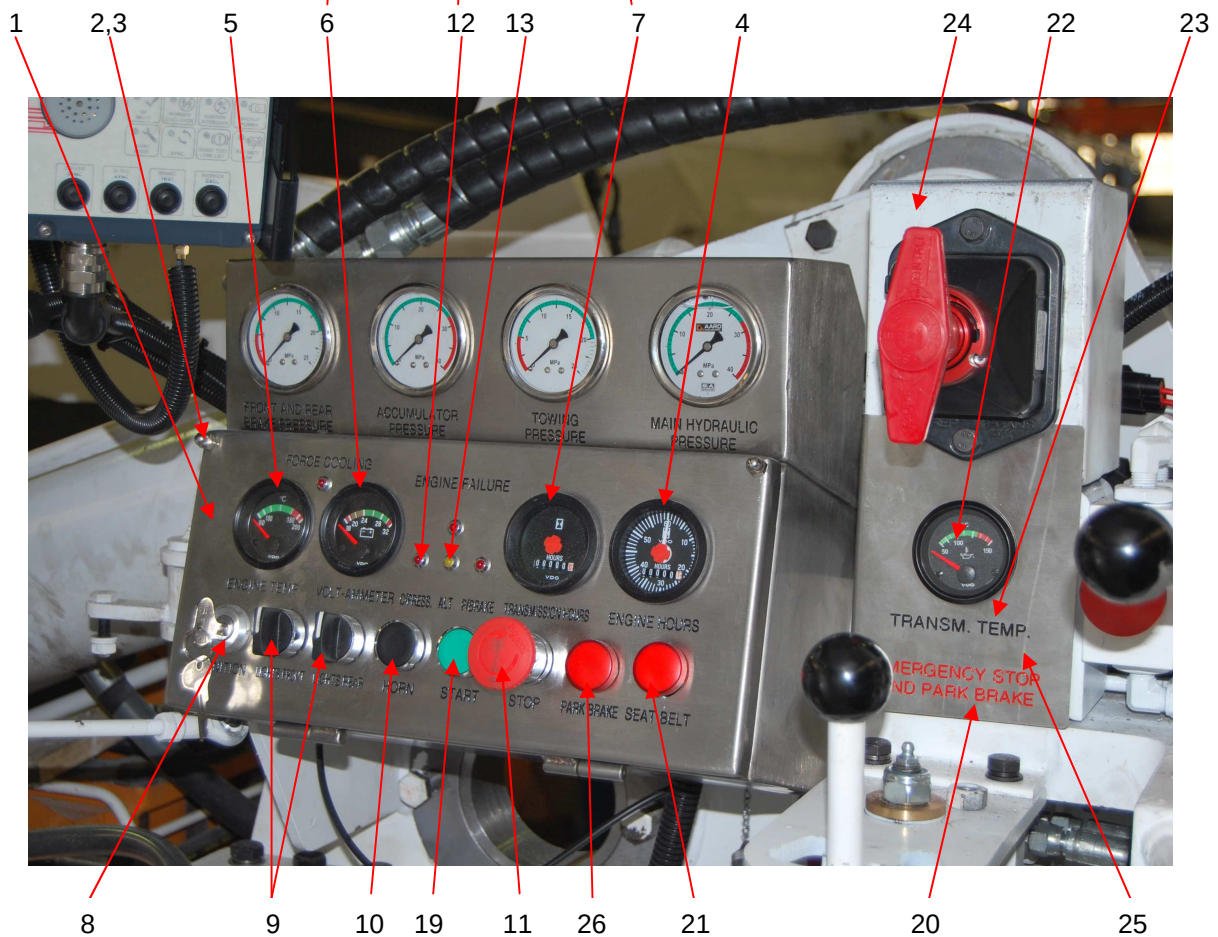
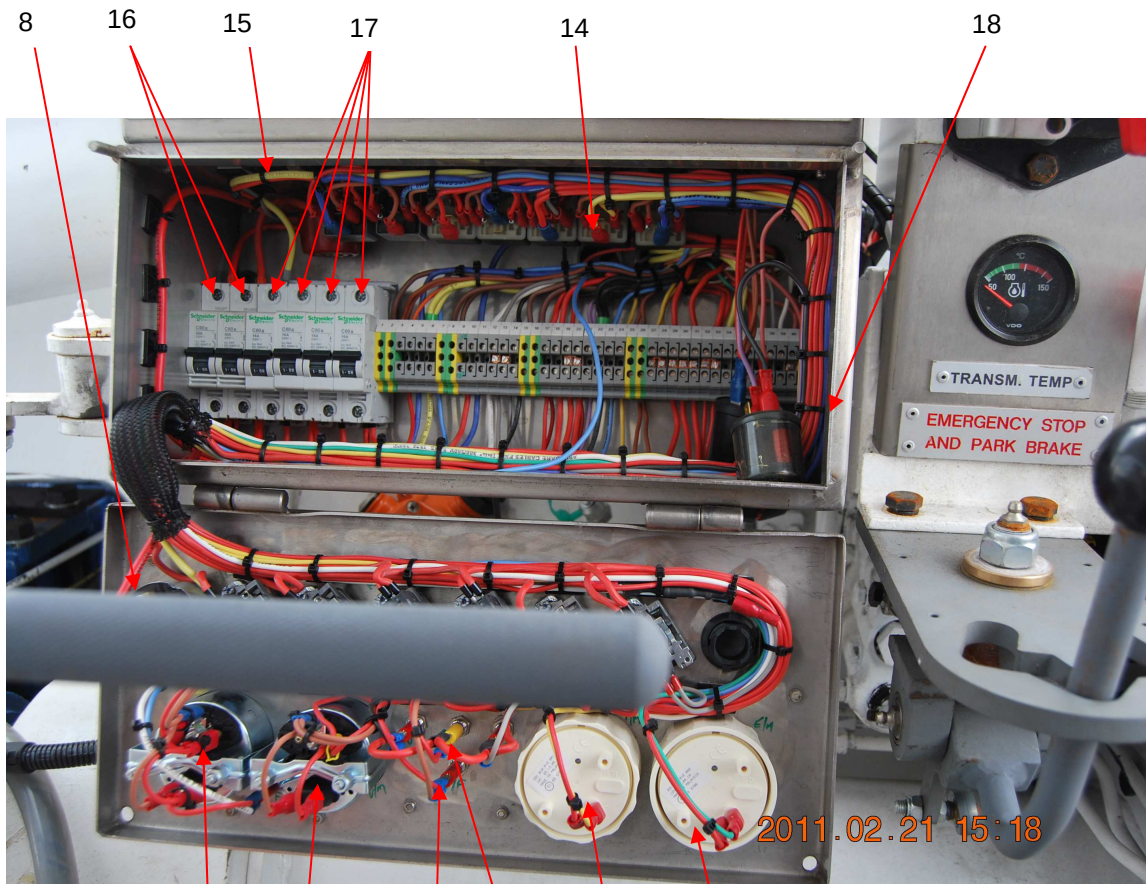
DATE: 01.02.2017 REV: HUNDRED & TWENTY ONE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER ELECTRICAL CIRCUIT ASSEMBLY					Pg 192
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
9100	00			1	UV-18700143	ELECTRICAL CIRCUIT ASSEMBLY	
	01			2		CABLE, Battery/Isolator Switch	
	02			1		CABLE, Battery Link	
	03			1		CABLE, Isolator Switch/Starter	
	04			1		CABLE, Earth	
	05			1		HARNESS, Isolator Switch/Instrument Panel	
	06			1		HARNESS, Front Supply	
	07			1		HARNESS, LH Front Light	
	08			1		HARNESS, Middle Front Light	
	09			1		HARNESS, RH Front Light	
	10			1		HARNESS, Rear Supply	
	11			1		HARNESS, Auxillary Supply	
	12			2	UV-0100548	TERMINAL, Battery - Positive	
	13			2	UV-0100549	TERMINAL, Battery - Negative	
	14			AR		SLEEVING, Harness, 16mm Clear	
	15			AR		SLEEVING, Harness, 20mm Grey	
	16			AR		SADDLE, Harness, 16mm	
	17			AR		SADDLE, Harness, 20mm	
	18			AR		SADDLE, Harness	
	19			AR		RIVET, Pop, Dia. 3,2mm	
	20			AR		RIVET, Pop, Dia. 4mm	
						AR – As Required	



DATE: 01.02.2017 REV: HUNDRED & TWENTY ONE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER ELECTRICAL EQUIPMENT ASSEMBLY				Pg 193
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
9200	00			1	UV-18700143	ELECTRICAL EQUIPMENT ASSEMBLY	
	01			2	UV-0100455	BATTERY	
	02			1	UV-71000099	SWITCH, Isolator	
	03			-	-	-	
	04			1	UV-71600116	BOX, 4-Way (Pratley)	
	05			1	UV-71600117	BOX, 3-Way (Pratley)	
	06			1	UV-71000056	BOX, Flashing Light	
	07			1	UV-71000011	SWITCH, Pressure - Reverse Light	
	08			1	UV-0100534	SWITCH, Pressure - Transmission Hour Meter (Optional)	
	09			1	UV-0100534	SWITCH, Pressure - Engine Oil	
	10			1	UV-71300071	SWITCH, Proximity (Optional) (Not Illustrated)	
	11			1	UV-81400009	SWITCH, Seat Belt (Optional) (Not Illustrated)	
	12			1	UV-0100474	HORN	
	13			1	UV-0100474	HOOTER, Reverse	
	14			2	UV-71300071	LIGHT, Brake (Optional) (Not Illustrated)	
	15			9	UV-71300116	DRIVE LIGHT 27W	
	16			9	UV-71300099	DRIVE LIGHT LED3	
	17			10	105-M6-15	SCREW, Hex Hd, M6 x 15 lg	
	18			14	143-M6	WASHER, Spring, Dia. 6	
	19			14	141-M6	WASHER, Flat, Dia.6	
	20			2	109-M8-35	SCREW, Cap Soc Hex Hd, M8 x 35 lg	
	21			4	105-M8-25	SCREW, Hex Hd, M8 x 25 lg	
	22			6	143-M8	WASHER, Spring, Dia. 8	
	23			6	141-M8	WASHER, Flat, Dia. 8	
						OPTIONAL	
	24a			2	9001388	WARNING LIGHT, Green	
	24b			2	UV-71300061	BRACKET, Angle	
	25a			2	9001387	WARNING LIGHT, Red	
	25b			2	UV-71300061	BRACKET, Angle	
	25c			2	9003322	MARKER LAMP, Red	
	25d			2	9003323	MARKER LAMP, Green	
	25e			4	9003321	MARKER LAMP BRACKET	
	26			1	UV-08001079	ISOLATOR LOCK	
9210	00		194	1	UV-71300071	INSTRUMENT PANEL ASSEMBLY	
9220	00		195	1	UV-71300137	LIGHT ASSEMBLY (24V)	
9230	00		196	1	UV-71300091	ROTATING LIGHT ASSEMBLY	
					<u>OPTIONAL</u>		
9220	00		195	5		LIGHT ASSEMBLY (24V)	
9240	00		197	1	UV-71800001	BRAKE SOLENOID VALVE ASSEMBLY	
9250	00		198	1	UV-72400014	PERSONNEL DETECTION SYSTEM ASSEMBLY	
9260	00		199	1	UV-72700005	DRIVER MANAGEMENT SYSTEM ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
INSTRUMENT PANEL ASSEMBLY

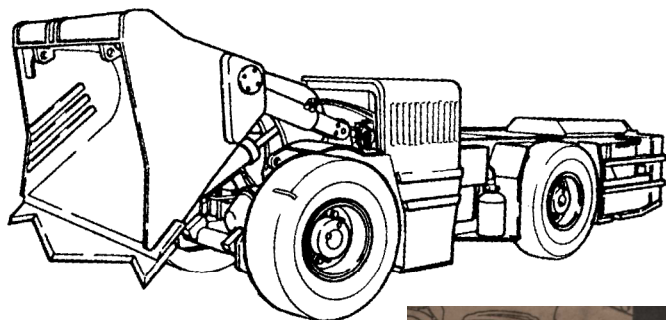
DATE: 11.06.2015
REV: HUNDRED
AND TEN



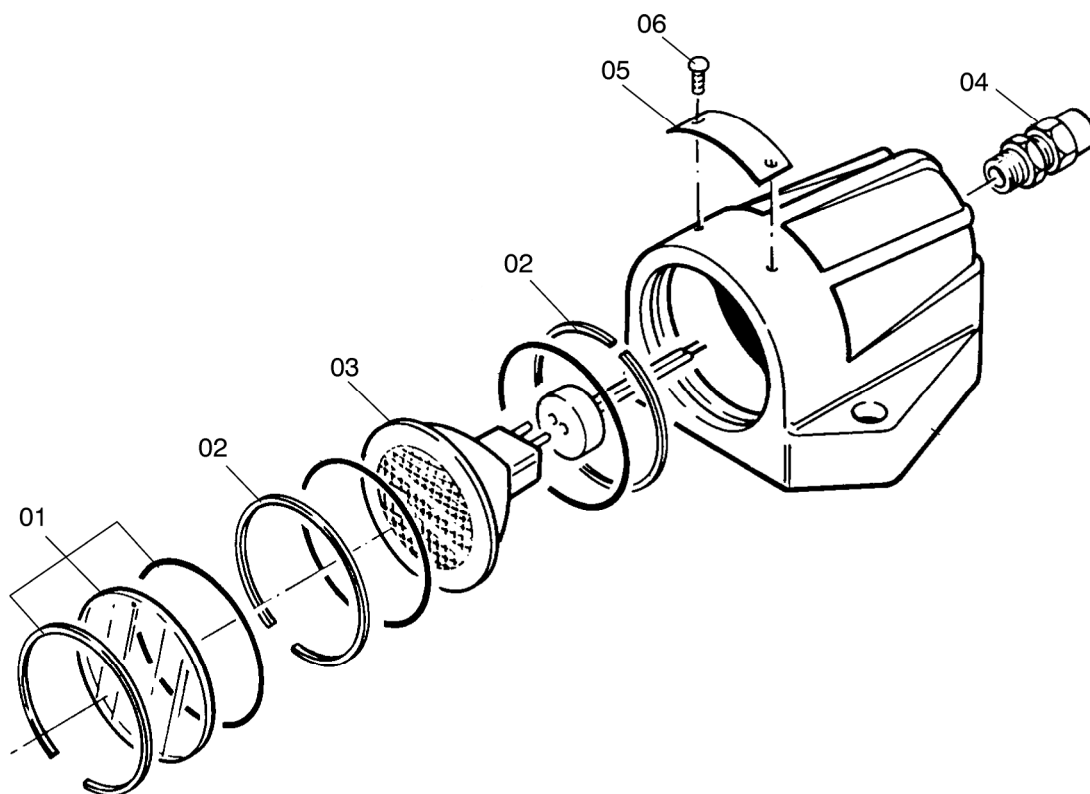
DATE: 11.06.2015 REV: HUNDRED AND TEN			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER INSTRUMENT PANEL ASSEMBLY				Pg 194
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
9210	00			1	9001277	INSTRUMENT PANEL ASSEMBLY	
	01			1	9001029	PANEL, Instrument	
	02			2	143-M6	WASHER, Spring	
	03			2	128-M6	NUT, Hex Nyloc	
	04			1	UV-0100444	HOUR METER, Engine	
	05			1	UV-0100447	GAUGE, Engine Temperature	
	06			1	UV-0100445	VOLTMETER	
	07			1	UV-0100444	HOUR METER, Transmission (Optional)	
	08			1	UV-0101118	SWITCH, Ignition - On/Off	
	09			2	UV-71000040	SWITCH, Light	
	10			2	UV-71000026	PUSH BUTTON, Black	
	11			1	UV-0100436	E-STOP, Twist Release Complete	
	12			4	9001119	LED - Red	
	13			1	9001120	LED - Amber	
	14			8	UV-0101337	RELAY, 24 V	
	15			1	UV-72000011	BUZZER	
	16			2	9001117	BREAKER, Circuit, 50A	
	17			4	9001111	BREAKER, Circuit, 15A	
	18			1	UV-71000056	FLASHER UNIT c/w Base	
	19			1	D7509	SWITCH, Push Button, Green	
	20			1	9003107	LABEL, Emergency Stop	
	21			1	UV-70800004	BLANKING PLUG	
	22			1	UV-71900006	GAUGE, Temperature 0 - 150°C, 24 V	
	23			1	UV-81300070	NAMEPLATE, Transm. Temp	
	24			1	UV-81300062	NAMEPLATE, Battery Isolator	
	25			1	UV-09100076	MTG PLATE, Transm. Temp	
	26			1	UV-71300033	LED, P/L Red Complete	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
LIGHT ASSEMBLY (24V)

DATE: 02.08.2013
REV: EIGHTY ONE



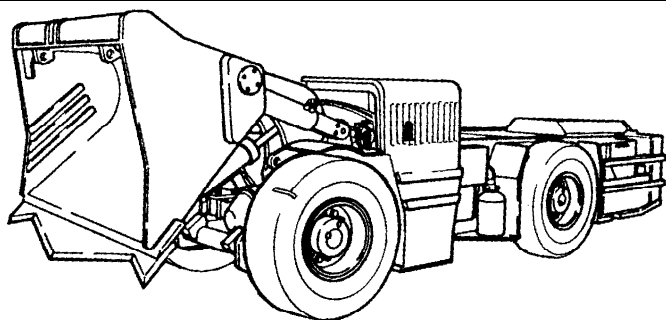
P I
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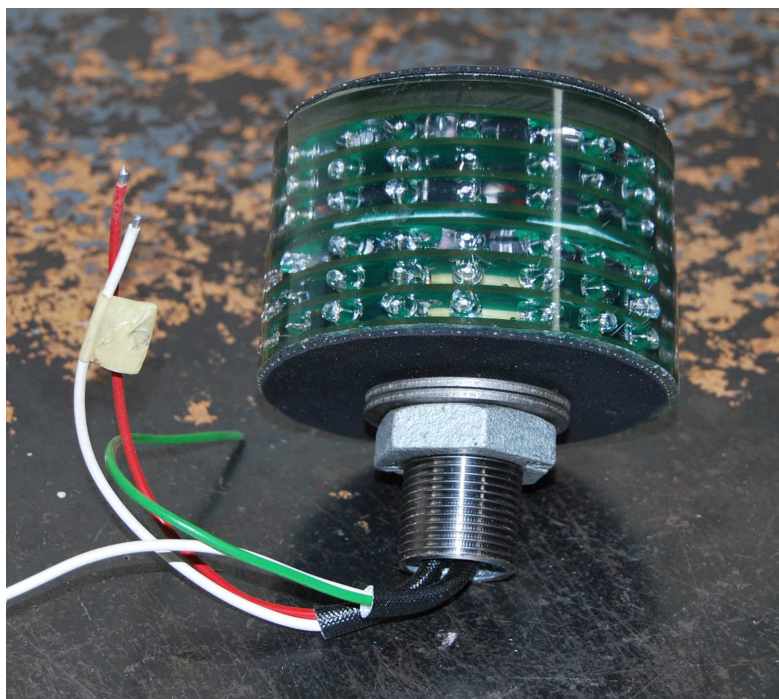
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER LIGHT ASSEMBLY (24V)					Pg 195
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
9220	00			1/6	UV-71300137	LIGHT ASSEMBLY (24V)	
	01			1	UV-71300081	KIT, Lens - Clear	
	02			2	198-M65	RING, Snap	
	03			1		BULB – White, THL10224V	
	04			1		GLAND	
	05			1		DECAL	
	06			2		SCREW	
					<u>OPTION</u>		
				9	UV-71300099	DRIVE LIGHT, LED 3	
				5	UV-71300116	LIGHT, LED Worklamp SQ-21740	
				5	UV-71300115	LIGHT, LED Worklamp 48W	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ROTATING LIGHT ASSEMBLY**

DATE: 02.08.2013
REV: EIGHTY ONE



P I
9230 00



DATE: 02.08.2013
REV: EIGHTY ONE

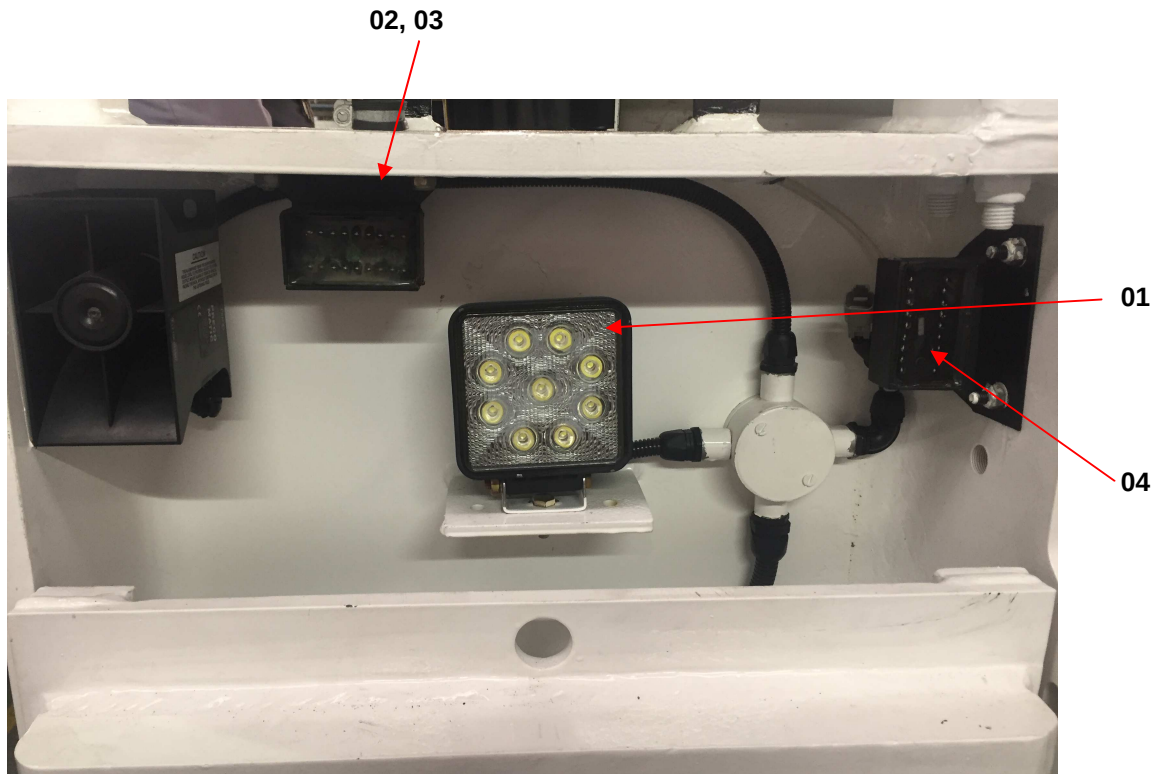
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ROTATING LIGHT ASSEMBLY

Pg 196A

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
9230	00			1	UV-71300091	ROTATING LIGHT ASSEMBLY	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
LED LIGHT ASSEMBLY

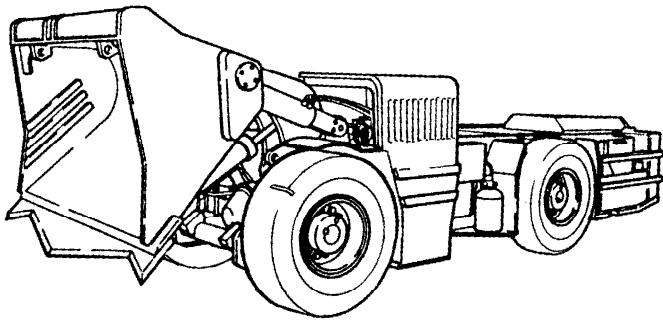
DATE: 01.02.2017
REV: HUNDRED &
TWENTY ONE



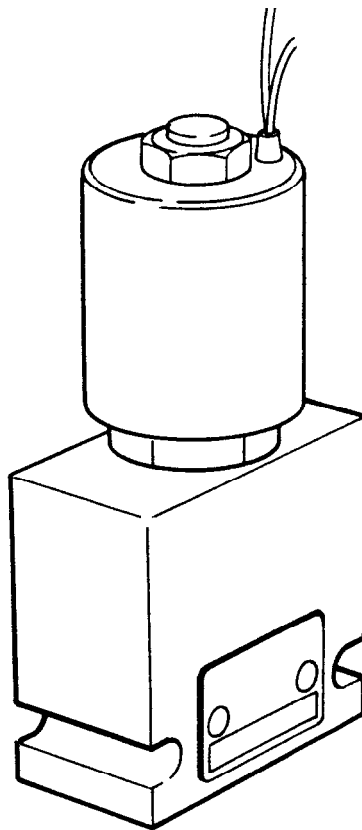
DATE: 01.02.2017 REV: HUNDRED & TWENTY ONE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER LED LIGHT ASSEMBLY				Pg 196B
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1		LED LIGHT ASSEMBLY	
01				5	UV-71300116	LIGHT, LED Work lamp 27W	
02				2	UV-71300126	LIGHT, 18 LED Red Marker	
03				2	UV-71300125	LIGHT, 18 LED Green Marker	
04				4	UV-71300150	LIGHT, 18 LED White Marker	
05				2	UV-09100237	BULL HORNS	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BRAKE SOLENOID VALVE ASSEMBLY**

DATE:
REV:



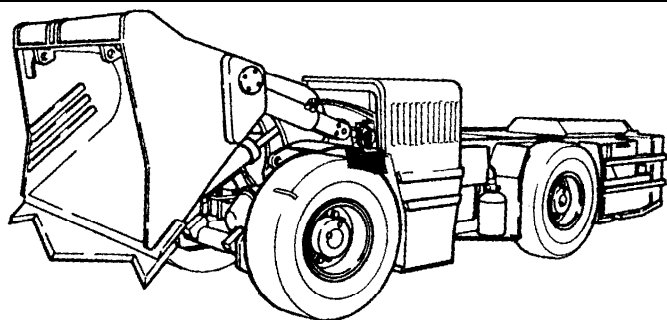
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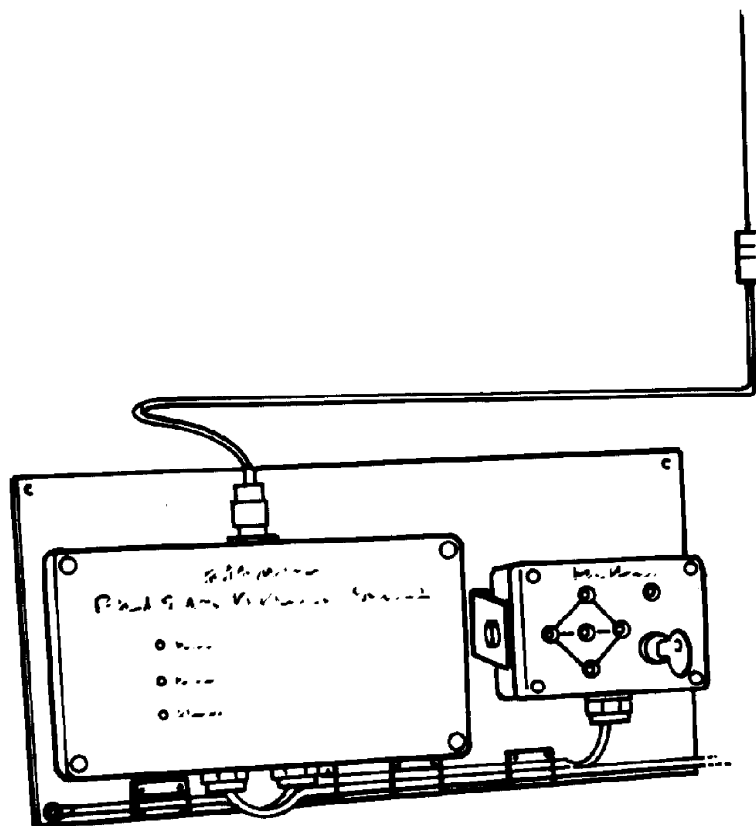
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER BRAKE SOLENOID VALVE ASSEMBLY					Pg 197
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
9240	00			1	UV-71800001	BRAKE SOLENOID VALVE ASSEMBLY SOLENOID COIL, 24V SEAL KIT, Std Note: Supplied as a unit	
				1	9002159		
				1	UV-94000061		

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
PERSONNEL DETECTION SYSTEM ASSEMBLY

DATE:
REV:



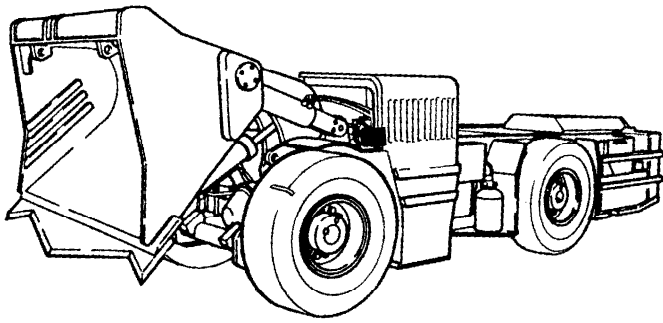
P I
9250 00



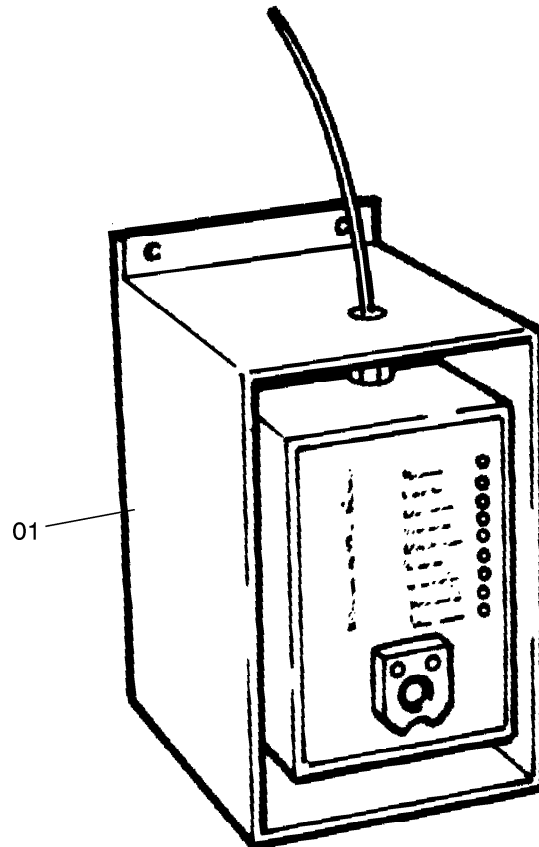
DATE: REV:		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER PERSONNEL DETECTION SYSTEM ASSEMBLY					Pg 198
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
9250	00			1	UV-72400014	PERSONNEL DETECTION SYSTEM ASSEMBLY Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DRIVER MANAGEMENT SYSTEM ASSEMBLY

DATE:
REV:



P I
9260 00

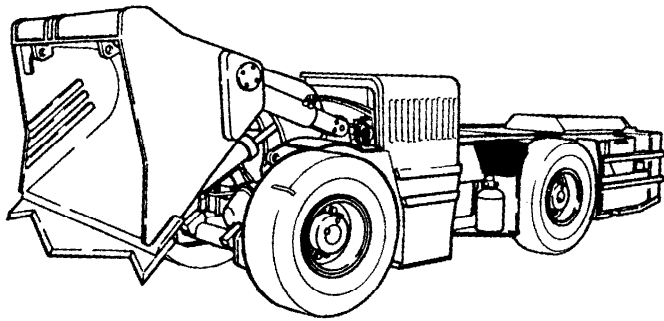


01

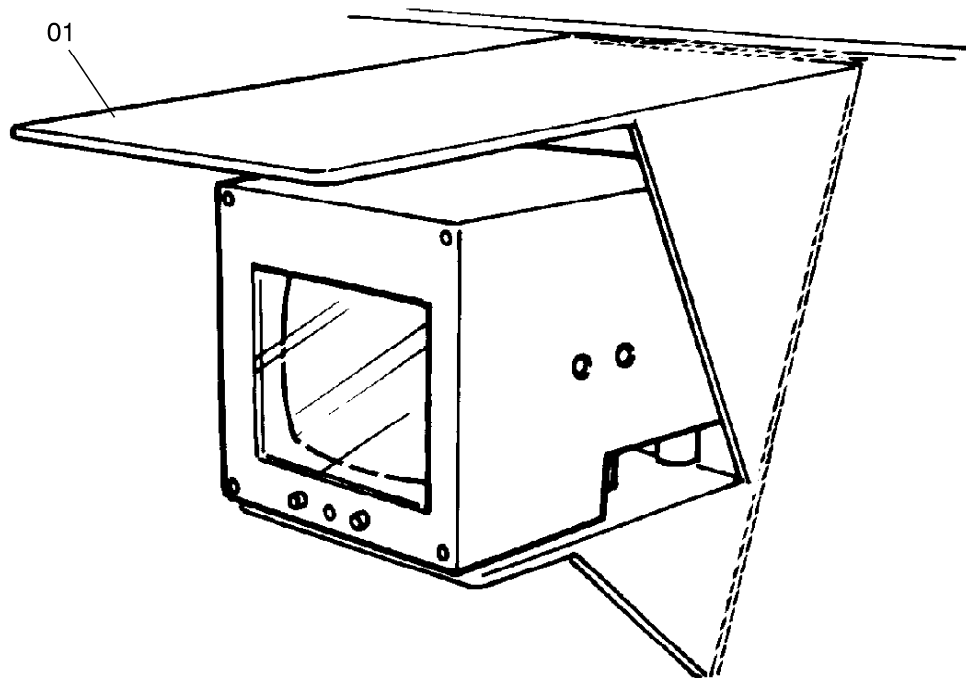
DATE: REV:		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER DRIVER MANAGEMENT SYSTEM ASSEMBLY					Pg 199
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
9260	00 01			1 1	UV-72700005 9000072	DRIVER MANAGEMENT SYSTEM ASSEMBLY BRACKET, Mounting Note: Supplied as a unit	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
ONBOARD CAMERA AND MONITOR SYSTEM ASSEMBLY

DATE:
REV:



P I
9270 00



DATE: REV:		AARD MINING EQUIPMENT AARDMAJOR LOAD HAUL DUMPER ONBOARD CAMERA AND MONITOR SYSTEM ASSEMBLY					Pg 200
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
9270	00 01			1 1	UV-72700002	ONBOARD CAMERA AND MONITOR SYSTEM ASSEMBLY BRACKET, Mounting - Welded Note: Supplied as a unit	

Pg 201	AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER ELECTRICAL DIAGRAM - BF6L914 AIR COOLED ENGINE	DATE: 01.02.2017 REV: HUNDRED & TWENTY ONE
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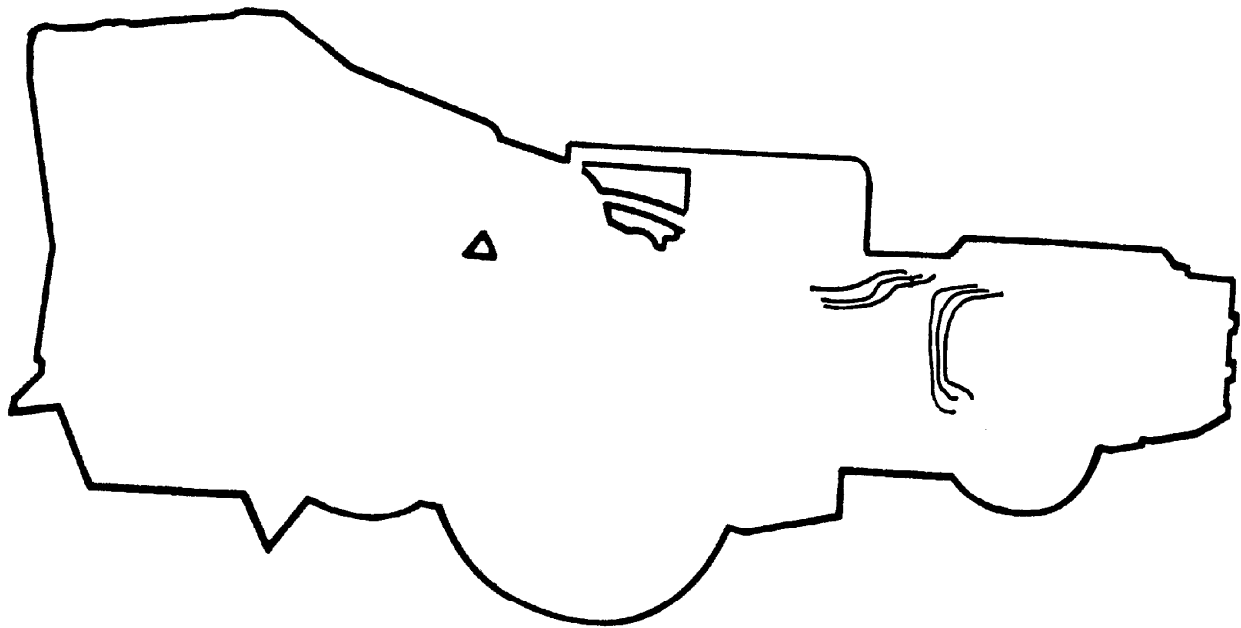
SEE A3 DIAGRAM

DATE: 01.02.2017 REV: HUNDRED & TWENTY ONE		AARD MINING EQUIPMENT AARDMAJOR LOAD HAUL DUMPER ELECTRICAL DIAGRAM - BF6L914 AIR COOLED ENGINE					Pg 201
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1	UV-18700143	ELECTRICAL CIRCUIT	
01				2	UV-0100455K	BATTERY	
02				1	UV-71000099	BATTERY ISOLATOR SWITCH	
03				1	UV-85300245	NEUTRAL SWITCH	
04				1	UV-010044	ENGINE OIL PRESSURE SWITCH	
05				2	UV-71000040	HEAD LIGHT SWITCH	
06				2	UV-71000026	HOOTER PUSH BUTTON	
07				1	UV-71000011	REVERSE LIGHT SWITCH	
08				1	UV-72000006	REVERSE HOOTER	
09				1	UV-71300150	REVERSE FLASHING LIGHT, 18 LED	
10				1	UV-71300121	LIGHT, STROBE LED AMBER	
11				1	UV-71000056	FLASHER 24V	
12				8	UV-0101337	RELAY	
13				4	9001111	CIRCUIT BREAKER 15A	
14				2	9001117	CIRCUIT BREAKER 50A	
15				1	UV-0100474	HORN	
16				1	UV-71000110	OIL LEVER SWITCH	
17				1	UV-0100534	ENGINE HOUR METER	
18				1	UV-81400009	SAFETY BELT SWITCH	
19				2	UV-0100548	BATTERY TERMINAL (+)	
20				2	UV-0100549	BATTERY TERMINAL (-)	
21				1	UV-71800001	SOLENOID VALVE (24V)	
22				5	UV-71300116	DRIVE LIGHT (27W)	
23				1	UV-70500021	DELAY START	
24				1	UV-72000011	BUZZER	
25				-	-	-	
26				1	9001119	PARK BRAKE LIGHT	
27				-	-	-	
28				1	REF	SHUT DOWN SOLENOID	
29				1	UV-0100445	VOLTMETER 24V DC	
30				4	9001119	RED LIGHT COMPLETE	
31				1	9001120	AMBER LIGHT COMPLETE	
32				1	REF	ENGINE TEMPERATURE SWITCH	
33				1	REF	WATER LEVEL SWITCH	
34				1	UV-71000051	SWITCH, LIMIT ROLLER LEVER	
35				-	-	-	
36				1	UV-0101118	IGNITION SWITCH	
37				1	UV-0100444	TRANSMISSION HOUR METER	
38				1	UV-0100534	TRANSMISSION PRESSURE SWITCH	
39				1	UV-0100446	ENGINE TEMPERATURE GAUGE	
40				1	UV-71000006	PRESSURE SWITCH	
41				2	UV-71300126	MARKER, LIGHT 18 LED RED FLASHING	
42				2	UV-71300125	MARKER, LIGHT 18 LED GREEN FLASHING	
43				1	UV-70400011	FUSE 400A, COMPLETE	
44				1	UV-71000084	FLASHER UNIT ELECTRONIC	
45				1	UV-93800008	COOLER, OIL	
					<u>REF</u>		
				1	UV-93800011	FAN MOTOR, Oil Cooler	

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FOR FUTURE USE**

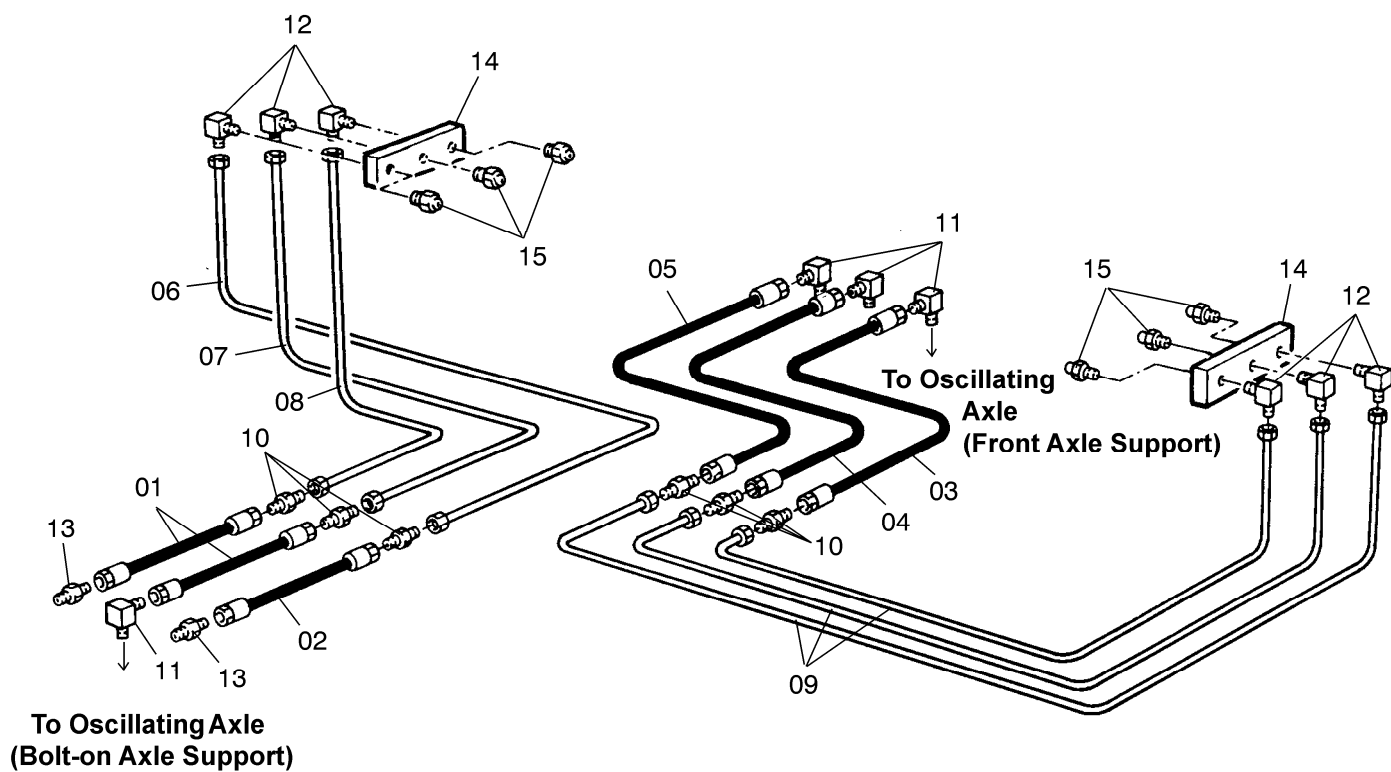
AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
LUBRICATION GROUP

DATE:
REV:



DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER LUBRICATION GROUP					Pg 211
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1100000				1		LUBRICATION GROUP	
1110000			212	1	UV-09100440	LUBRICATION CIRCUIT ASSEMBLY	
						OPTIONAL	
1110000			213	1	UV-84000044	LUBRICATION CIRCUIT ASSEMBLY	

P I
1110000

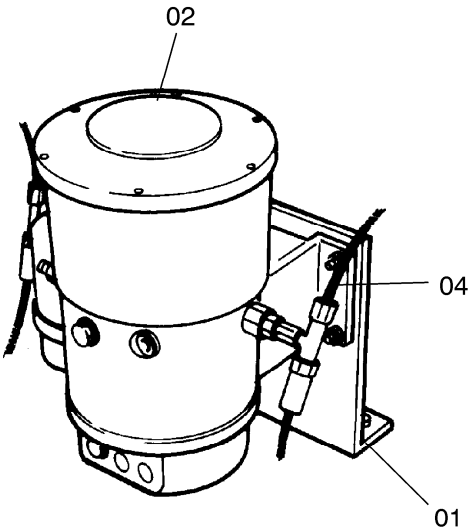
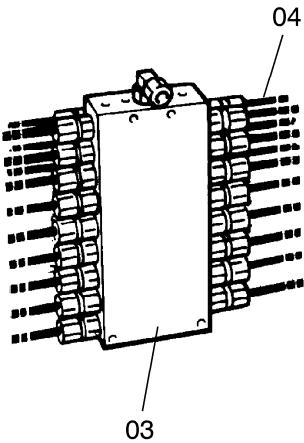


DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER LUBRICATION CIRCUIT ASSEMBLY					Pg 212
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1100000				1	UV-09100440	LUBRICATION CIRCUIT ASSEMBLY	
	01			2		HOSE ASSEMBLY, Dia. 1/4" - 1/4" JIC Straight End - 1/4" JIC Straight End - 560 lg	
	02			1		HOSE ASSEMBLY, Dia. 1/4" - 1/4" JIC Straight End - 1/4" JIC Straight End - 370 lg	
	03			1		HOSE ASSEMBLY, Dia. 1/4" - 1/4" JIC Straight End - 1/4" JIC Straight End - 250 lg	
	04			1		HOSE ASSEMBLY, Dia. 1/4" - 1/4" JIC Straight End - 1/4" JIC Straight End - 550 lg	
	05			1		HOSE ASSEMBLY, Dia. 1/4" - 1/4" JIC Straight End - 1/4" JIC Straight End - 620 lg	
	06			1		TUBE ASSEMBLY	
	07			1		TUBE ASSEMBLY	
	08			1		TUBE ASSEMBLY	
	09			3		TUBE ASSEMBLY	
	10			6		ADAPTOR, Straight, Male, 1/4" JIC	
	11			4		ADAPTOR, 90° Elbow, Male, 1/8" BSP - 1/4" JIC	
	12			6		ADAPTOR, 90° Elbow, Male, 1/4" BSP - 1/4" JIC	
	13			2		ADAPTOR, Straight, 1/8" BSP - 1/4" JIC	
	14			2	UV-09100441	BLOCK, Manifold - Welded	
	15			6		ADAPTOR, Grease Straight, Male, M10 x 1	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
LUBRICATION CIRCUIT ASSEMBLY

DATE:
REV:

P I
1110000

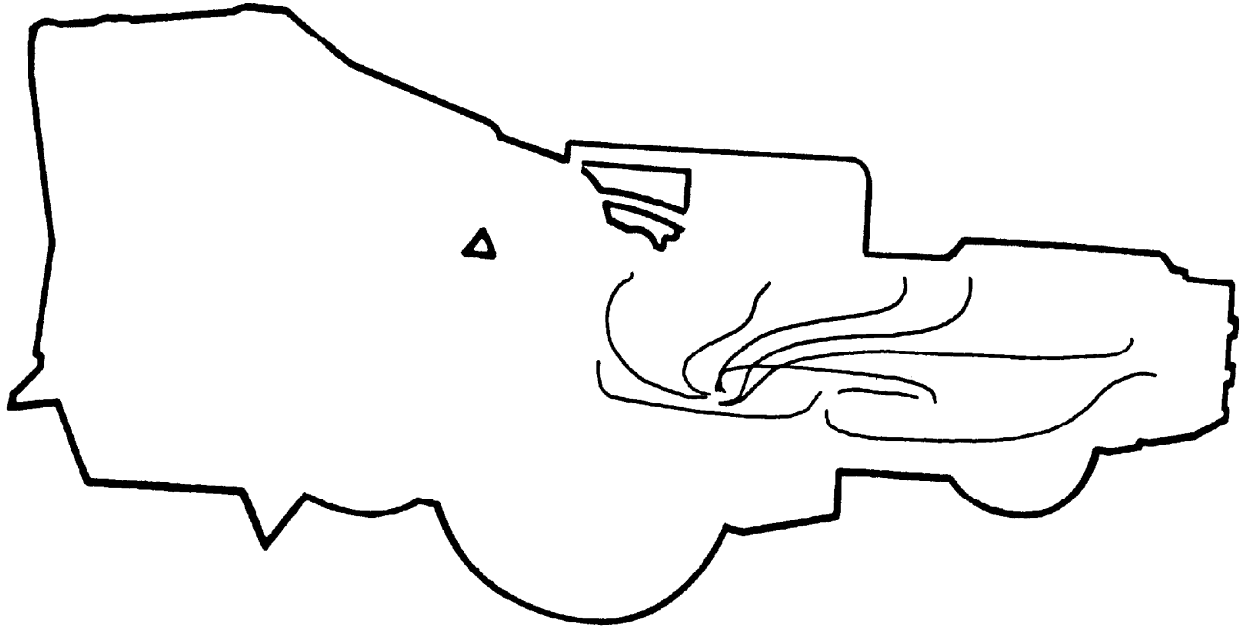



DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER LUBRICATION CIRCUIT ASSEMBLY					Pg 213
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1110000				1	UV-84000044	LUBRICATION CIRCUIT ASSEMBLY	
	01			1		BRACKET, Mounting	
	02			1		PUMP ASSEMBLY, Grease	
	03			1		BLOCK, Manifold	
	04			1		TUBING (Supplied in Lengths)	
Note: Supplied as a unit							

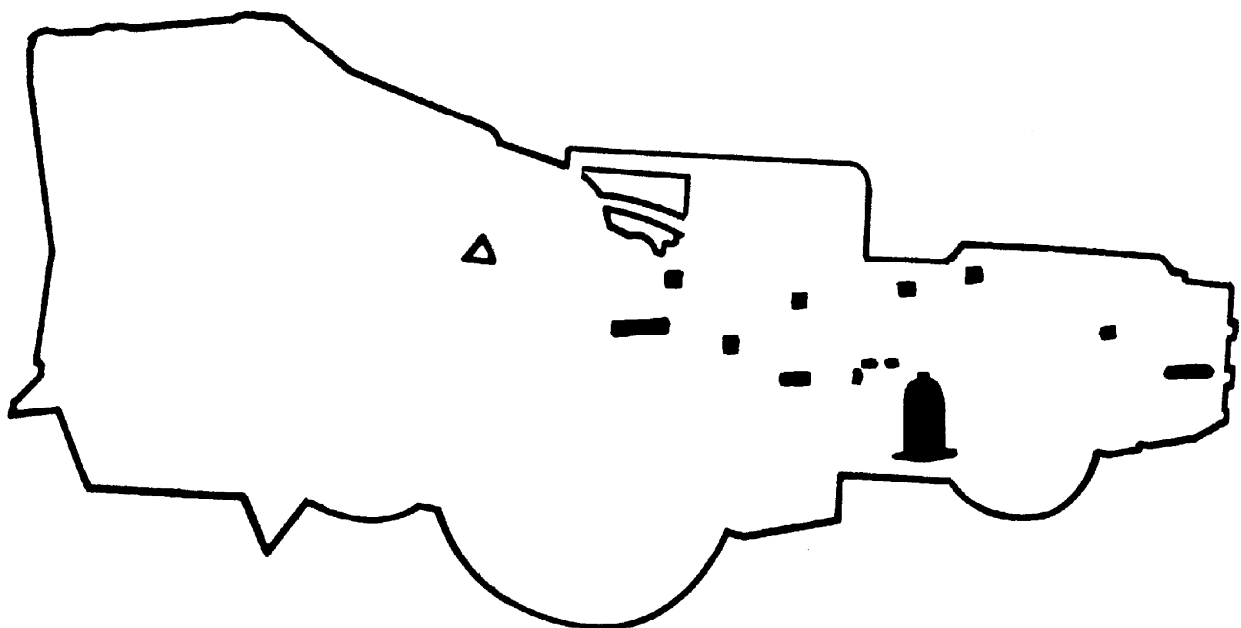
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AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FIRE SUPPRESSION GROUP

DATE:
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1310000



P I
1320000

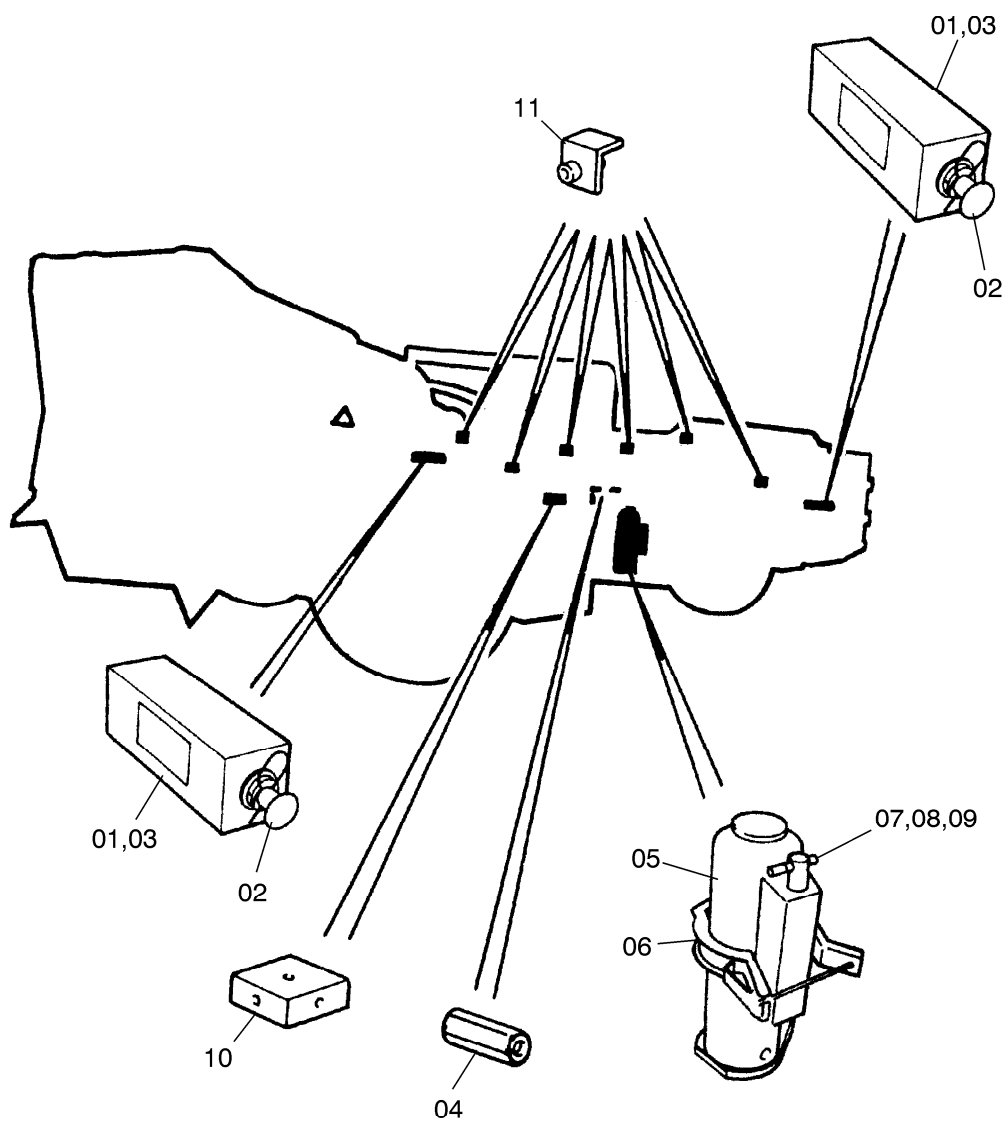
DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER FIRE SUPPRESSION GROUP					Pg 221
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1300000				1		FIRE SUPPRESSION GROUP	
1310000			222	1	UV-82300010	FIRE SUPPRESSION CIRCUIT ASSEMBLY, MANTIS	
1320000			223	1	UV-82300010	FIRE SUPPRESSION EQUIPMENT ASSEMBLY, MANTIS	
1310000			224	1	UV-82300023	OPTIONAL, ANSUL FIRE SUPPRESSION CIRCUIT ASSEMBLY	
1320000			225	1	UV-82300023	FIRE SUPPRESSION EQUIPMENT ASSEMBLY	

DATE: 17.11.2014 REV: NINETY NINE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER FIRE SUPPRESSION CIRCUIT ASSEMBLY				Pg 222
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1310000				1	UV-82300010	FIRE SUPPRESSION CIRCUIT ASSEMBLY	
	01			1		HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - 1200 lg	
	02			1		HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - 890 lg	
	03			1		HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - 1300 lg	
	04			1		HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - 750 lg	
	05			1		HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - 3000 lg	
	06			1		HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - 2700 lg	
	07			1		HOSE ASSEMBLY, Dia. 3/4" - 3/4" JIC Straight End - 3/4" JIC Straight End - 800 lg	
	08			1		HOSE ASSEMBLY, Dia. 1/4" - 7/16" JIC Straight End - 7/16" JIC Straight End - 800 lg	
	09			1		HOSE ASSEMBLY, Dia. 1/4" - 7/16" JIC Straight End - 7/16" JIC Straight End - 4500 lg	
	10			1		HOSE ASSEMBLY, Dia. 1/4" - 7/16" JIC Straight End - 7/16" JIC Straight End - 2700 lg	
	11			4		ADAPTOR, Straight, Male, 1/4" NPT - 7/16" JIC	
	12			2		ADAPTOR, 90° Elbow, Male, 1/4" NPT - 7/16" JIC	
	13			2		ADAPTOR, 90° Elbow, Male, 3/4" NPT - 3/4" JIC	
	14			4		ADAPTOR, Straight, Male, 1/2" NPT - 1/2" JIC	
	15			6		ADAPTOR, 90° Elbow, Male, 1/2" NPT - 1/2" JIC	
	16			2		ADAPTOR, T- Piece, Female/Male/Male, 1/2" JIC	
	17			3		ADAPTOR, 90° Swivel Elbow, Male/Female, 1/2" JIC	
	18			1		ADAPTOR, 90° Elbow, Male, 1/4" NPT	
	19			1		ADAPTOR, T-Piece, Female/Male/Male, 1/4" NPT	
	20			6		NOZZLE c/w Blow-off Cap	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FIRE SUPPRESSION EQUIPMENT ASSEMBLY

DATE:
REV:

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1320000

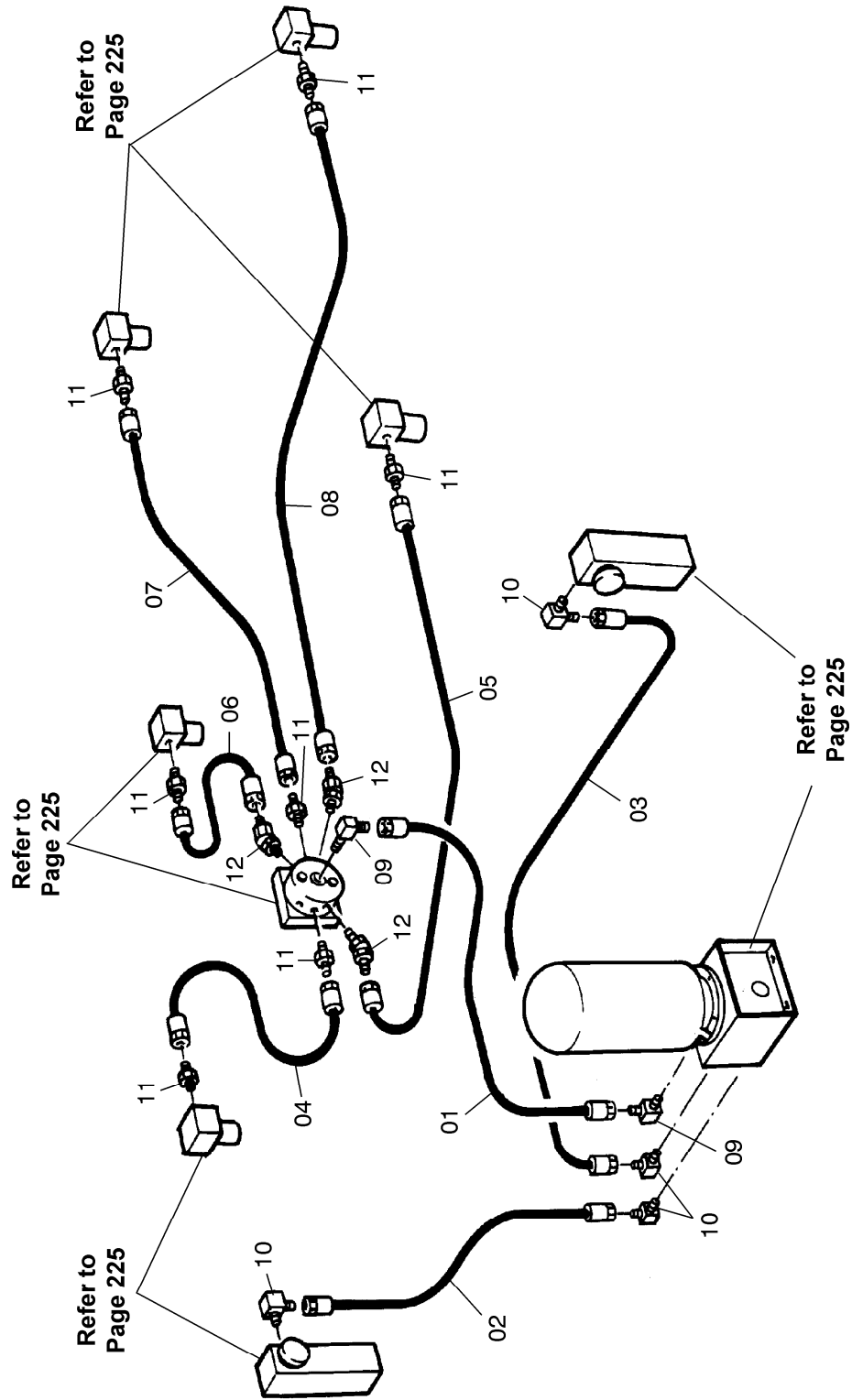


DATE: 17.11.2014 REV: NINETY NINE		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER FIRE SUPPRESSION EQUIPMENT ASSEMBLY					Pg 223
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1320000				1	UV-82300010	FIRE SUPPRESSION EQUIPMENT ASSEMBLY, MANTIS CYLINDER ASSEMBLY, Nitrogen ACTUATOR ASSEMBLY, Manual BRACKET, Cover - Actuator/Outdoor VALVE ASSEMBLY, Check CYLINDER ASSEMBLY, Dry Chemical Fire Extinguisher BRACKET, Fire Extinguisher CHECK ASSEMBLY, Vent HEAD ASSEMBLY, Pneumatic Control KIT, Discharge BLOCK, Manifold - Welded BRACKET, Nozzle - Welded	
	01			2			
	02			2			
	03			2			
	04			3			
	05			1			
	06			1			
	07			1			
	08			1			
	09			1			
	10			1			
	11			6			

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FIRE SUPPRESSION CIRCUIT ASSEMBLY

DATE:
REV:

P I
1310000



DATE: REV:		AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER FIRE SUPPRESSION CIRCUIT ASSEMBLY					Pg 224
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1310000				1	UV-82300023	FIRE SUPPRESSION CIRCUIT ASSEMBLY, ANSUL HOSE ASSEMBLY, Dia. 3/4" - 3/4" JIC Straight End - 3/4" JIC Straight End - lg HOSE ASSEMBLY, Dia. 1/4" - 7/16" JIC Straight End - 7/16" JIC Straight End - lg HOSE ASSEMBLY, Dia. 1/4" - 7/16" JIC Straight End - 7/16" JIC Straight End - lg HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - lg HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - lg HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - lg HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - lg HOSE ASSEMBLY, Dia. 1/2" - 1/2" JIC Straight End - 1/2" JIC Straight End - lg ADAPTOR, 90° Elbow, Male, 3/4" NPT - 3/4" JIC ADAPTOR, 90° Elbow, Male, 1/4" NPT - 7/16" JIC ADAPTOR, Straight, Male, 1/2" NPT - 1/2" JIC ADAPTOR, 45° Elbow, Male, 1/2" NPT - 1/2" JIC	
	01			1			
	02			1			
	03			1			
	04			1			
	05			1			
	06			1			
	07			1			
	08			1			
	09			2			
	10			4			
	11			7			
	12			3			

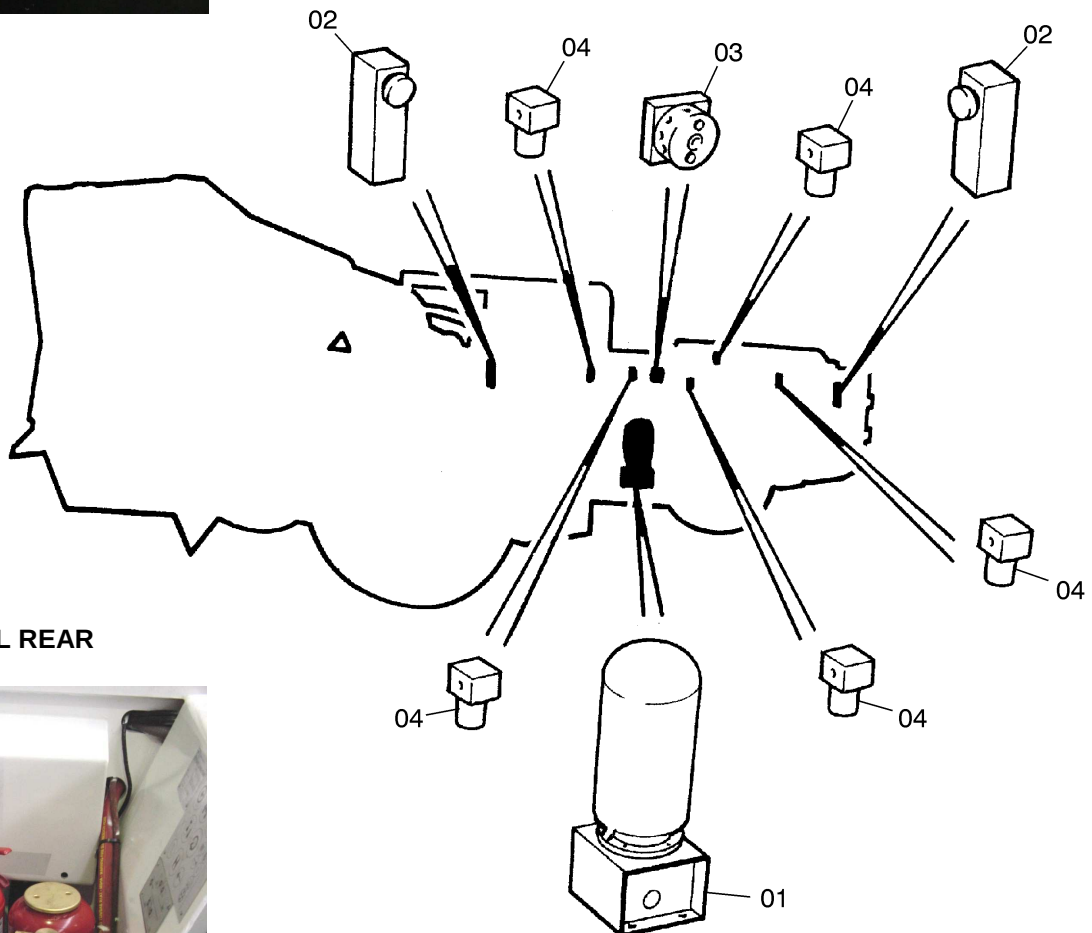
**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FIRE SUPPRESSION EQUIPMENT ASSEMBLY**

DATE: 19-04-05
REV: EIGHT

OPTIONAL FRONT



P I
1320000



OPTIONAL REAR



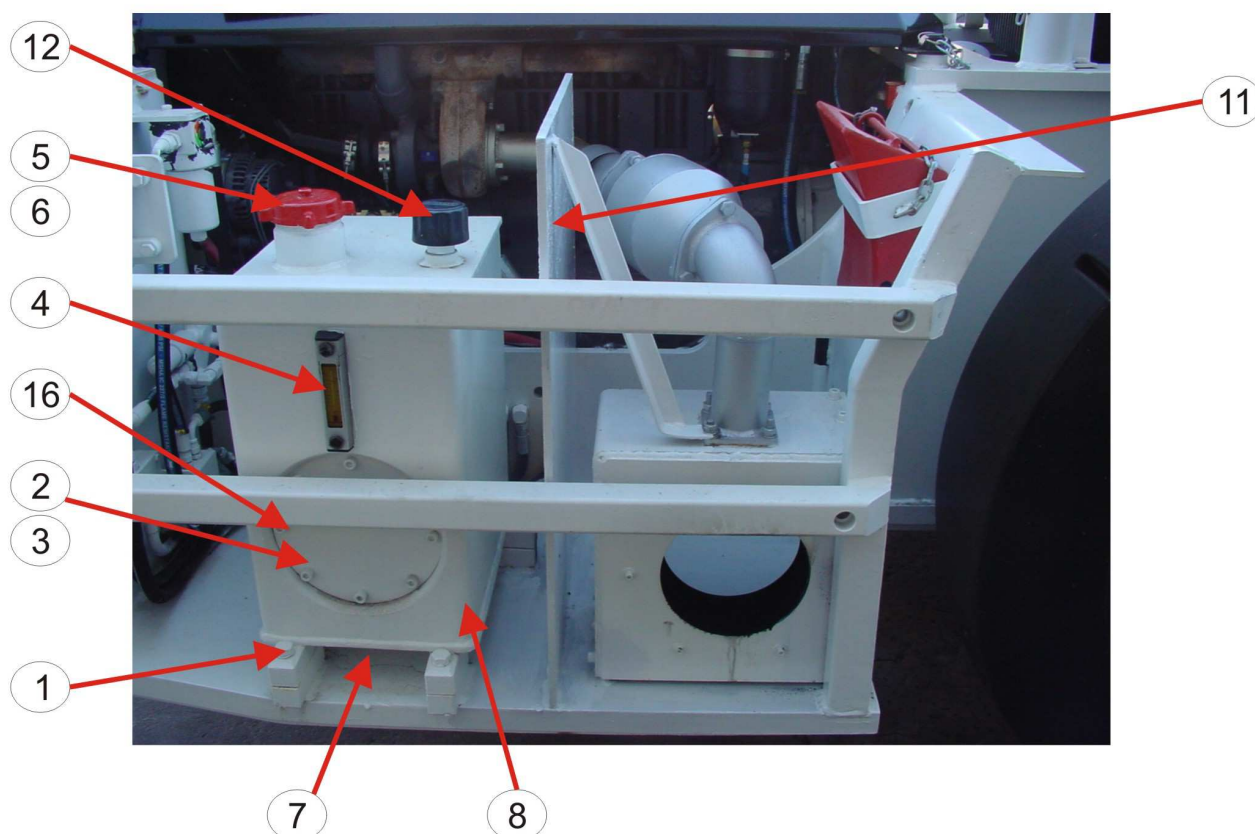
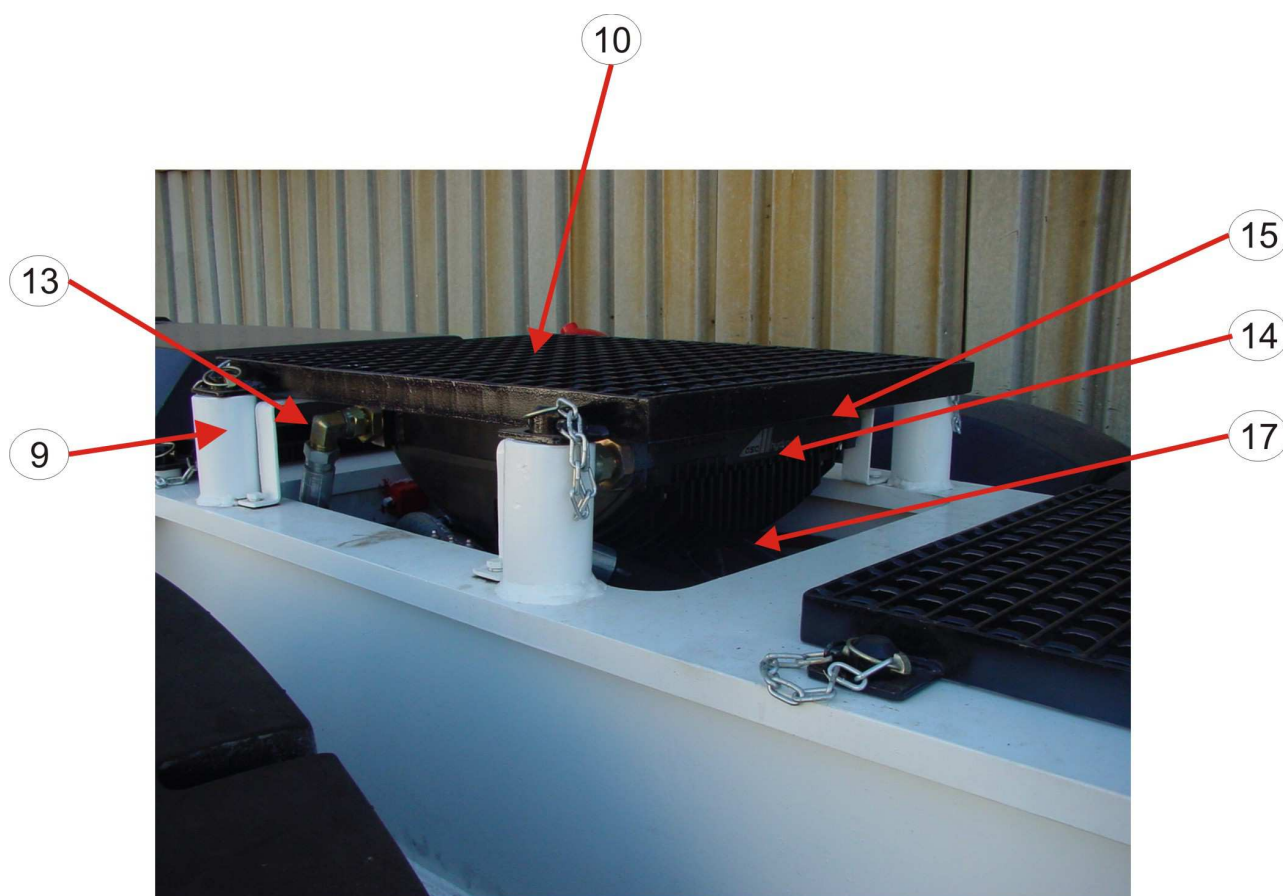
DATE: 19-04-05
REV: EIGHT

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
FIRE SUPPRESSION EQUIPMENT ASSEMBLY

Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
1320000				1	UV-82300023	FIRE SUPPRESSION EQUIPMENT ASSEMBLY, ANSUL MANUAL	
	01			1		EXTINGUISHER ASSEMBLY, Fire	
	02			2		ACTUATOR ASSEMBLY, Manual	
	03			3		BLOCK, Manifold	
	04			5		NOZZLE	
					OPTIONAL		
					UV-82400012	FIRE EXTINGUISHER	
					OPTIONAL: AUTO		
				1	UV-82300025	FIRE SUPPRESSION, ANSUL AUTO	

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
BRAKE TANK HYDRAULIC ASSEMBLY**

DATE: 07.03.2014
REV: EIGHTY
EIGHT



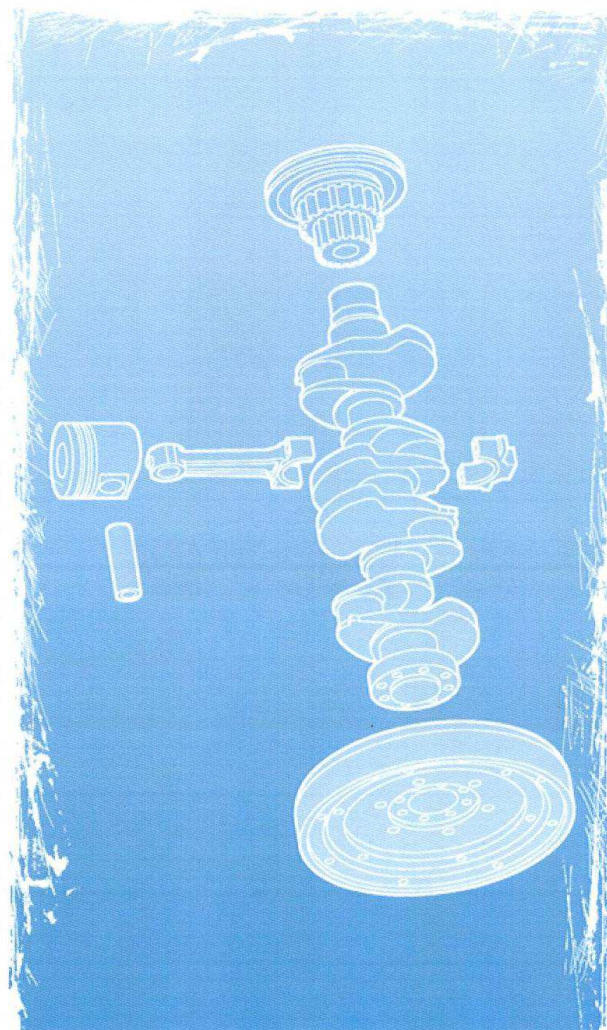
DATE: 17.11.2014 REV: NINETY NINE			AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER BRAKE TANK HYDRAULIC ASSEMBLY				Pg 226
Pos P	Item I	Comm. No.	See Page	Qty	Part No.	Description	Dwg. No.
				1	UV-09100078	BRAKE TANK HYDRAULIC ASSEMBLY	
	01			4	102-M16-75	BOLT, Hex Head	
	02			8	106-M10-20	SCREW, Hex Head	
	03			8	143-M10	WASHER, Spring	
	04			1	D7172	GAUGE, Level & Temp	
	05			1	UV-94000074	GASKET, Fuel Cap	
	06			1	UV-88600001	TANK SCREW COVER	
	07			1	UV-96000008	PLUG WITH O-RING	
	08			1	UV-09100079	BRAKE HYD. TANK FAB.	
	09			4	UV-09100080	LOCK PIN HYD. BRAKE COOLER	
	10			1	UV-09100081	BRACKET HYD. COOLER	
	11			1	UV-09100098	DEFLECTION PLATE HYD. BRAKE	
	12			1	UV-91900005	BREATHER, TANK ¾"	
	13			1	UV-92500090	BRAKE TANK HOSE / FITTING KIT	
	14			1	UV-93800008	24 COOLBR, Oil / Air No Termo	
	15			1	UV-93800011	FAN MOTOR, Cooler	
	16			1	UV-94000059	O-RING	
	17			1	UV-95000020	DISTRIBUTION BLOCK ¾" – 4 P-T	

AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

Ersatzteilliste
Spare Parts Catalogue
Catalogue de Pièces de
Rechange
Lista de Piezas de Repuesto

914



AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

Preface

Dear Customer

DEUTZ engines are developed to meet the requirements of a wide range of applications. An extensive program of variant options gives them their high flexibility.

Your engine is custom-made, i.e. specifically equipped for your requirement, which means that not all of the components and assemblies contained in this catalogue are fitted to your engine.

The greater part of the illustrations does not depict all details, and yet you will find it easy to differentiate between versions and thus to identify the parts pertaining to your engine model. Fig. Item No., Assembly Group No., Engine Serial No. are the codes that infallibly lead to selection ordering hints (see graphic examples below). This allows speedy and reliable

When placing your order, please observe our ordering hints. This allows speedy and reliable delivery of the required parts that are based on latest engineering standards.

If there are any questions, please do not hesitate to contact us.

Sincerely,
DEUTZAG

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Service

DEUTZ has always stood for excellence in engine construction, pioneering many developments in the industry. As an independent engine manufacturer, we offer - worldwide - a comprehensive range of diesel and gas engines spanning from 4kW to 7,400kW. Our products are perfectly tailored to meet our customers' individual requirements.

Over 1.4 million DEUTZ engines do their job reliably dependability of our engines, thus keeping our engines which pack a lot of inventive genius engine's performance. Therefore we are represented worldwide through a network of highly competent service partners who will meet the needs of our customers, wherever they are. This is why DEUTZ is not only the name for motors which pack a lot of inventive genius. DEUTZ also means reliable service and comprehensive support to enhance your motor's performance. An overview of the DEUTZ partners in your area, their product responsibilities and range of services provided. But even when no direct product responsibility is mentioned, your DEUTZ partner will be happy to help you with expert advice.

DEUTZ AG — at your service.
Deutz-Mülheimer Str. 147-149
D-51057 Köln
Phone: 0049-221-822-0
Telefax: 0049-221-822-5304
Telex: 8812-0 khd d
<http://www.deutz.de>

4 en

Engine Serial No.

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Please enter your engine serial no. here. This will facilitate dealing with your questions concerning after-sales service, repair and spare parts.

This Spare Parts Catalogue is subject to engineering changes necessary for engine advancement. All rights reserved. No part of this publication may be reprinted or reproduced in any form, without our prior permission in writing.

Dealer's stamp

Preface

DEUTZ Diesel Engines

are products based on long-standing research and development. The profound know-how acquired in conjunction with high quality requirements guarantee that engines leaving our works achieve a long life, high reliability and excellent fuel economy. Naturally, they also attain best ratings as regards environmental protection.

Genuine DEUTZ Parts

are subject to equally stringent quality requirements as the engines themselves. Improvements in engine design are guaranteed to fit the genuine DEUTZ parts. To ensure that your engine will retain its functions and high reliability, you should use genuine DEUTZ parts only.

DEUTZ Exchange Components



are a low-cost alternative. Of course, they are subject to the same high quality requirements as new parts. And as regards functions and reliability, DEUTZ exchange components equal genuine DEUTZ parts.

SERVICE

In case of operational trouble with your equipment or queries about spare parts please contact your nearest service dealership. Our skilled staff of service exerts will trace and remedy any defect quickly, using genuine DEUTZ parts.

Beware of the Running Engine

Be sure to shut down the engine before performing maintenance or repair work. After repair, put back in place any removed panels and guards. When doing work on the running engine, working clothes should fit tightly so that loose ends cannot get caught. Do not run the engine in enclosed rooms. - Danger of intoxication

Asbestos



Gaskets used for this engine do not contain asbestos. Please use suitable spare parts when carrying out maintenance and repairs.

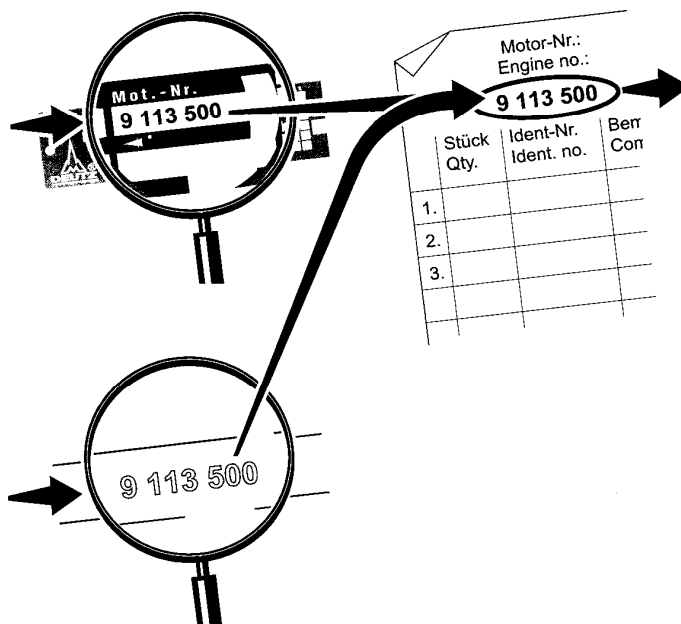
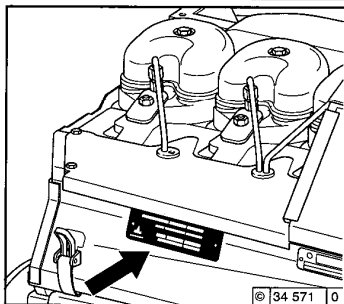
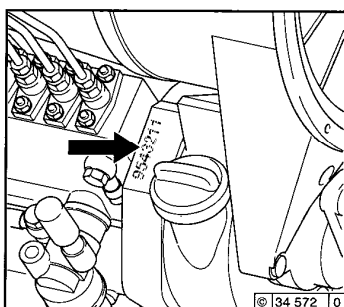
5 en

AARD MINING EQUIPMENT AARD 5.5 LP LOAD HAUL DUMPER DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

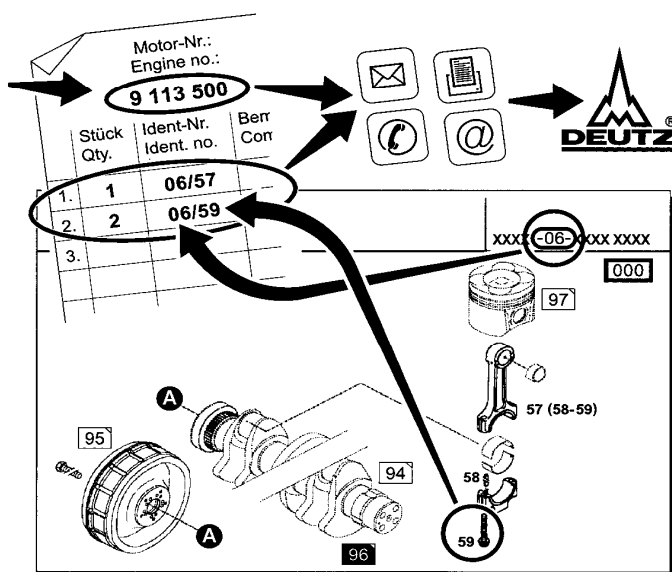
Service

Beispiel/Example



Service

Beispiel/Example



Bestellangaben

Bei der Bestellung von Original DEUTZ Teilen sind folgende Angaben erforderlich:

- Motor-Nr.
- Ident-Nr.
- Stückzahl

Dokumentationsaufbau

- Die Bildtafeln dieser Ersatzteilliste sind nach Motor-Baugruppen sortiert.
- Die Baugruppen sind in der Motorübersicht aufgeführt.
- Die Ident-Nr. 06/59 besteht aus Baugruppe (z.B. 06) und Position (z.B. 59).

Symbolerklärungen

06- Baugruppennummer (z.B. 06)

000 Änderungsnummer (z.B. 000)

96 Seitennummer (z.B. 96)

94 Querverweis auf Fortsetzungsseite (z.B. 94)

A Anschlußsymbol
- tritt immer mindestens paarweise auf (z.B. A-A, B-B, C-C etc.)

AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

Service

Order information

Please specify the following information when ordering original DEUTZ parts:

- Engine no.
- Ident no.
- Quantity

Document structure

- The picture diagrams in this spare list are sorted according to engine assembly groups.
- The assemblies are listed in the engine overview.
- The ident no. **06/59** is made up of the assembly group (e.g. **06**) and item number (e.g. **59**).

Explanation of symbols

- 06-** assembly No. (e.g. 06)
000 revision level (e.g. 000)
96 page number (e.g. 96)
94 cross reference on continuation page (e.g. 94)
A A connection symbol
 - always occurs at least in pairs (e.g. A-A, B-B, C-C etc.)

© 2004

Indications de commande

Lors d'une commande de pièces détachées originales de DEUTZ, il est nécessaire de fournir les indications suivantes:

- n° de moteur
- n° d'identification
- nombre

Structure de la documentation

- Les tableaux illustrés de cette liste de pièces détachées sont classés par groupe de moteur.
- Les groupes constitutifs figurent dans le récapitulatif moteur.
- Le n° d'identification **06/59** est constitué du n° de groupe (p.ex. **06**) et du n° de position (p.ex. **59**).

Explication des symboles

- 06-** Numéro de groupe constitutif (p. ex. 06)
000 Indice de modification (p. ex. 000)
96 Numéro de page (p. ex. 96)
94 Renvoi à la page de suite (p. ex. 94)
A Symbole d'assemblage
 - se présente toujours par paire (p. ex. A-A, B-B, C-C)

36

Indicaciones para el pedido:

Al solicitar piezas originales de DEUTZ será necesario indicar los siguientes datos:

- Nº de Motor:
- Nº de identificación
- Cantidad de piezas

Estructuración de la documentación

- Las tablas con las ilustraciones de dichas piezas de repuesto están clasificadas de acuerdo con el grupo constructivo de los motores.
- Los grupos constructivos se indican en el resumen correspondiente del motor.
- El Nº de identificación **06/59** consta del grupo (v.g. **06**) y de la posición (v.g. **59**).

Leyenda

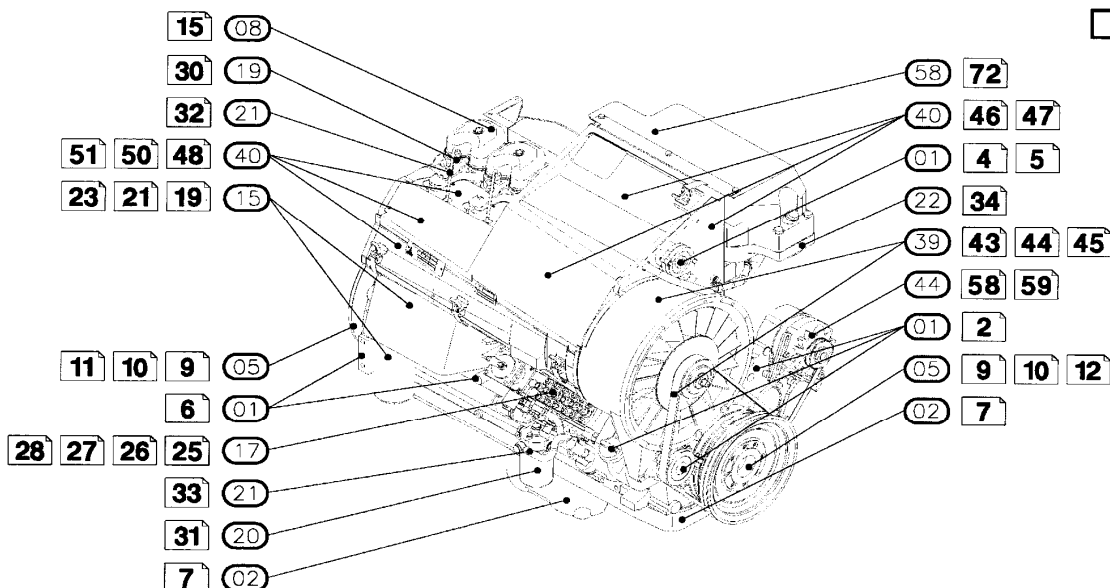
- 06-** número del grupo constructivo (p.ej. 06)
000 índice de modificación (p.ej. 000)
96 número de página (p.ej. 96)
94 referencia recíproca a la página de continuación (p.ej. 94)
A símbolo de enlace
 - aparece siempre, por lo menos, como pareja (p.ej. A-A, B-B, C-C, etc.)



Motor
Engine
Moteur
Motor

Referenznr.:

0150 -97- 0510 1948



AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

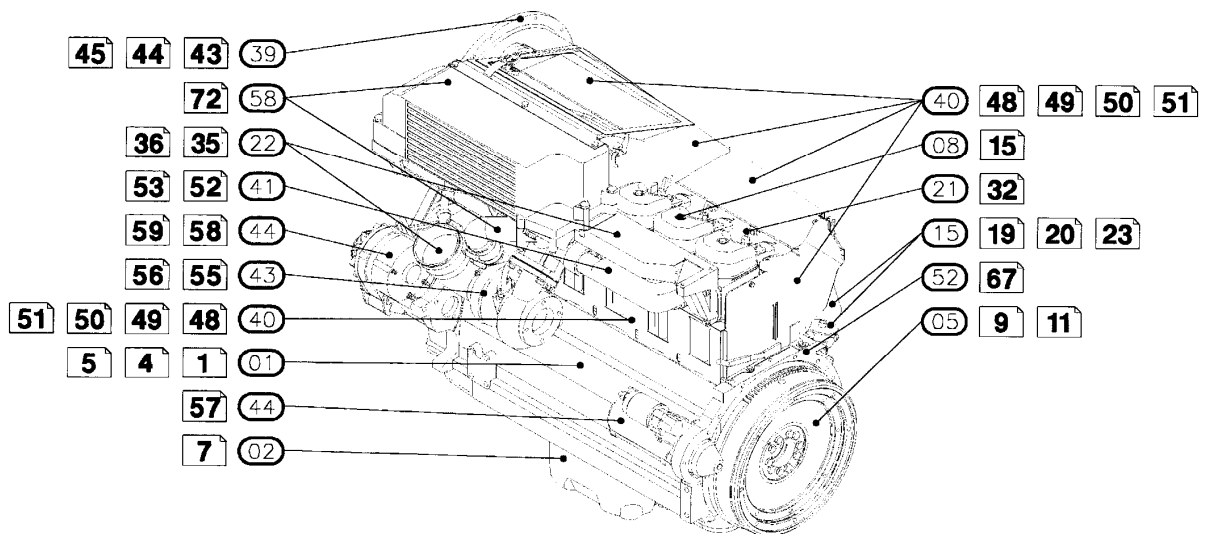


Motor
Engine
Moteur
Motor

Referenznr.:

0150 -97- 0510 1949

002 ©

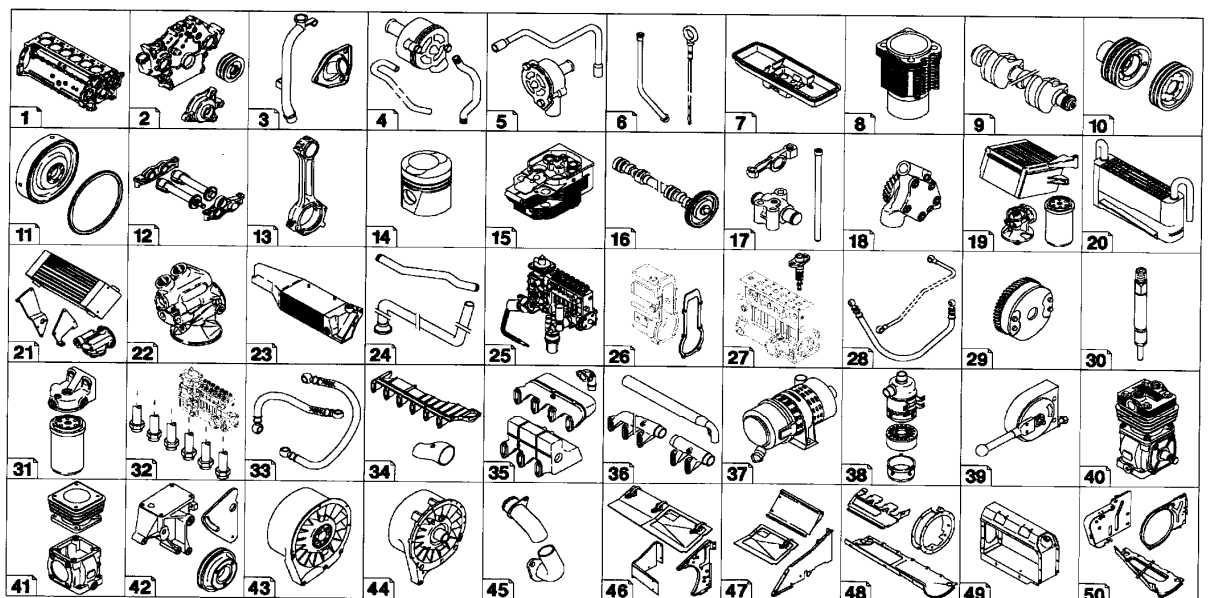


Inhaltsverzeichnis
Table of contents
Table des matieres
Tabla de materias

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0150 -97- 0510 1946

002 ©

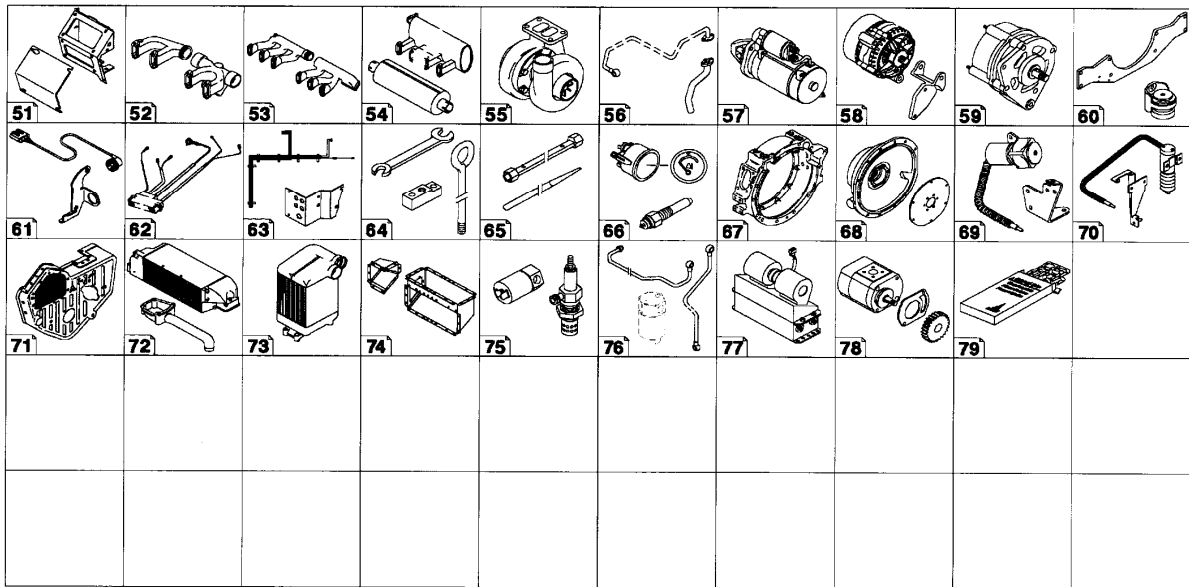


**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLY**DATE: 26-11-09
REV: THIRTY
EIGHTInhaltsverzeichnis
Table of contents
Table des matieres
Tabla de materias

Referenznr.:

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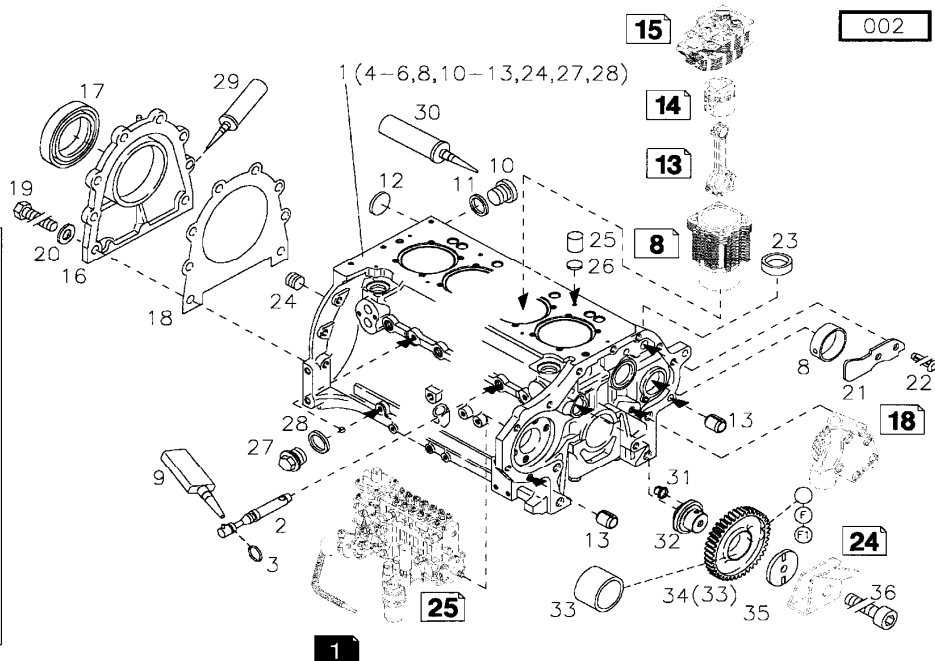
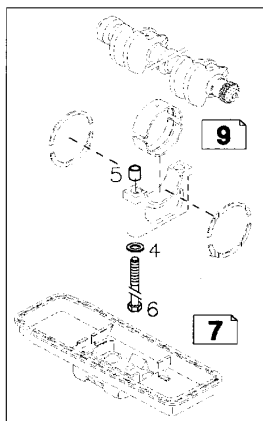
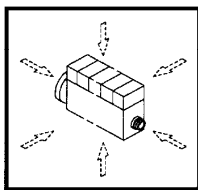
002 ©

Kurbelgehäuse
Crankcase
Carter
Bloque de cilindro

Referenznr.:

0150 -01- 0510 2060

002 ©



AARD MINING EQUIPMENT

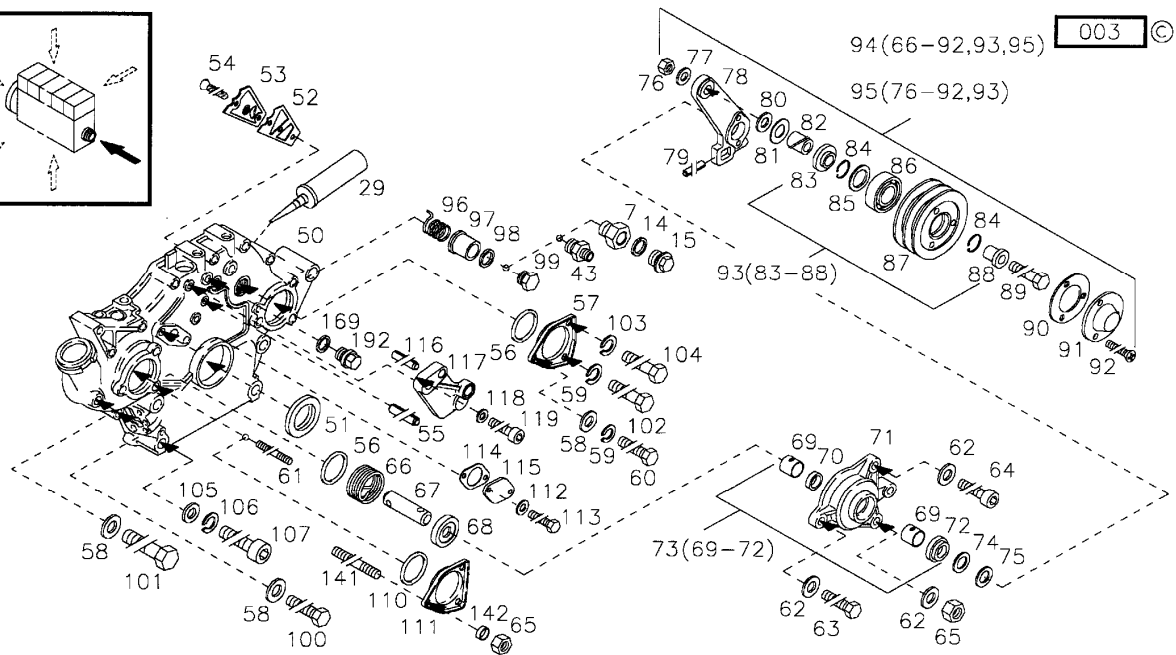
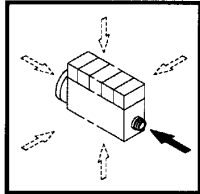
AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

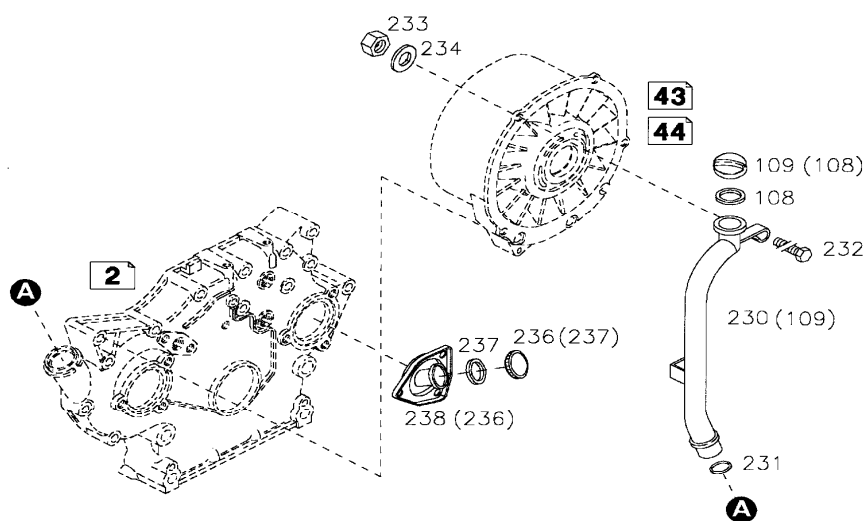
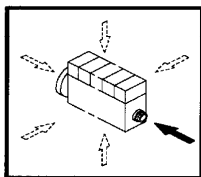
DATE: 26-11-09
REV: THIRTY
EIGHT



Vorderer Deckel
Front cover
Couvercle avant
Tapa delantera

Referenznr.: 0150 **-01-** 0510 2061**2**

Vorderer Deckel
Front cover
Couvercle avant
Tapa delantera

Referenznr.: 0150 **-01-** 0510 2220**3**

AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

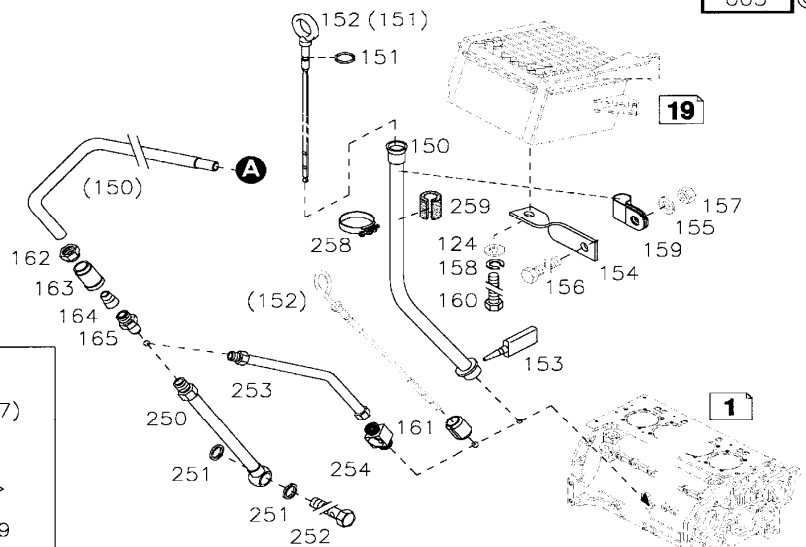
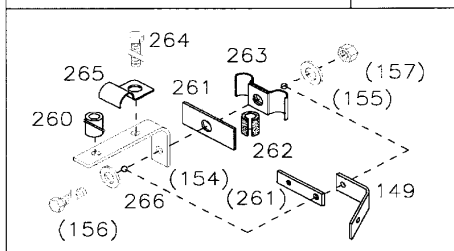
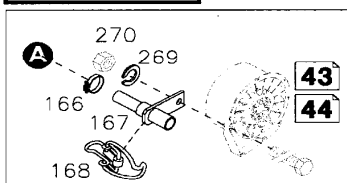
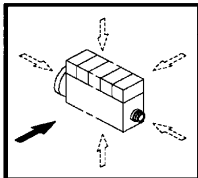


Ölmeßstab
Dipstick
Jauge de profondeur
Sonda de aceite

Referenznr.:

0150 -01- 0510 2063

003 ©



6

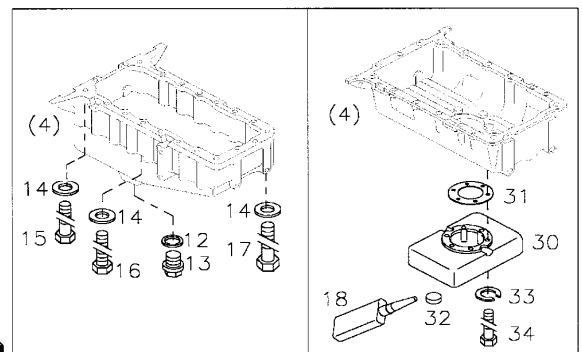
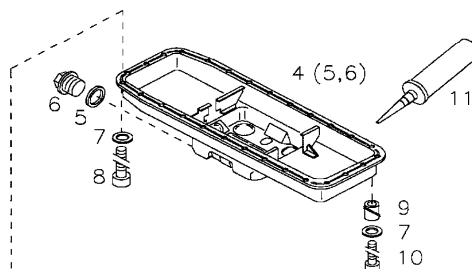
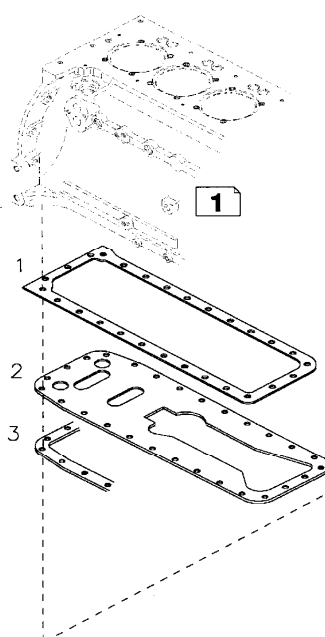
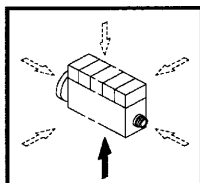


Ölwanne
Oil pan
Carter a huile
Carter de aceite

Referenznr.:

0150 -02- 0510 2064

002 ©



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AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLY

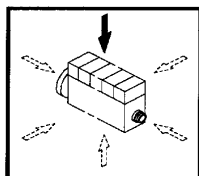
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REV: THIRTY
EIGHT



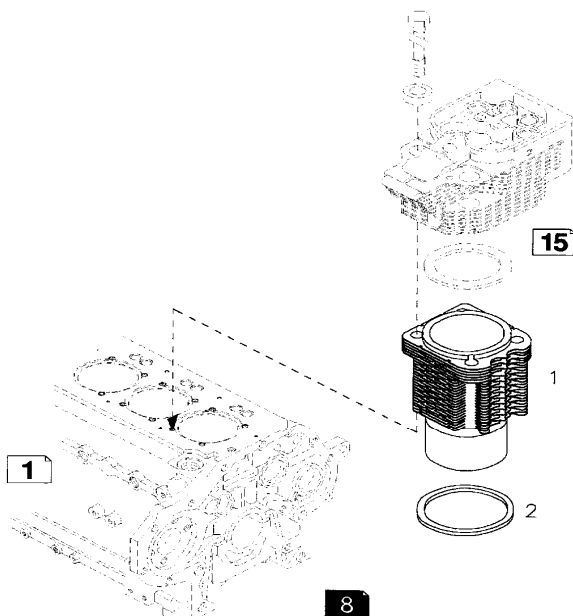
Zylinder
Cylinder
Cylindre
Cilindro

Referenznr.: _____

0150 -04- 0510 2065



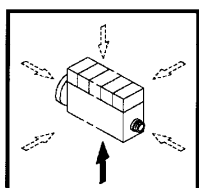
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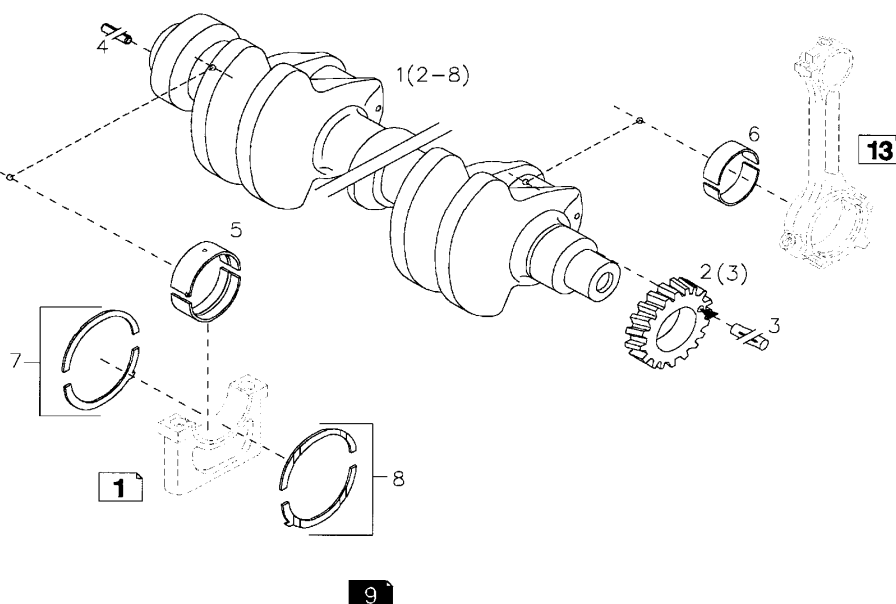
Kurbelwelle
Crankshaft
Vilebrequin
Ciguenal

Referenznr.: _____

0150 -05- 0510 2066



002 ©

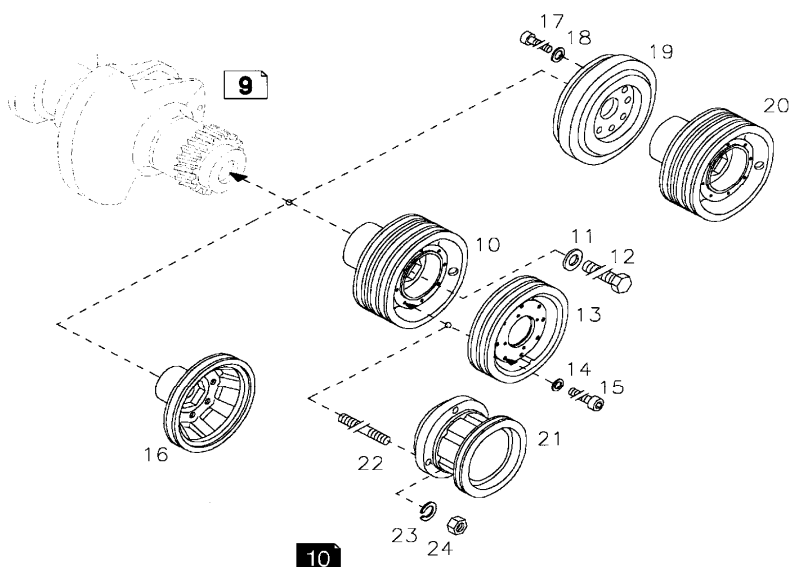
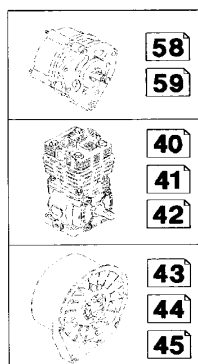
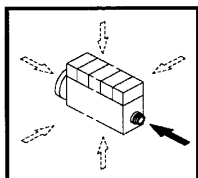


AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLYDATE: 26-11-09
REV: THIRTY
EIGHTKeilriemenscheibenanbau
V-belt pulley assembly
Montage de poulie à gorge trapezoidale
Montaje de polea trapecial

Referenznr.: _____

0150 -05- 0510 2067

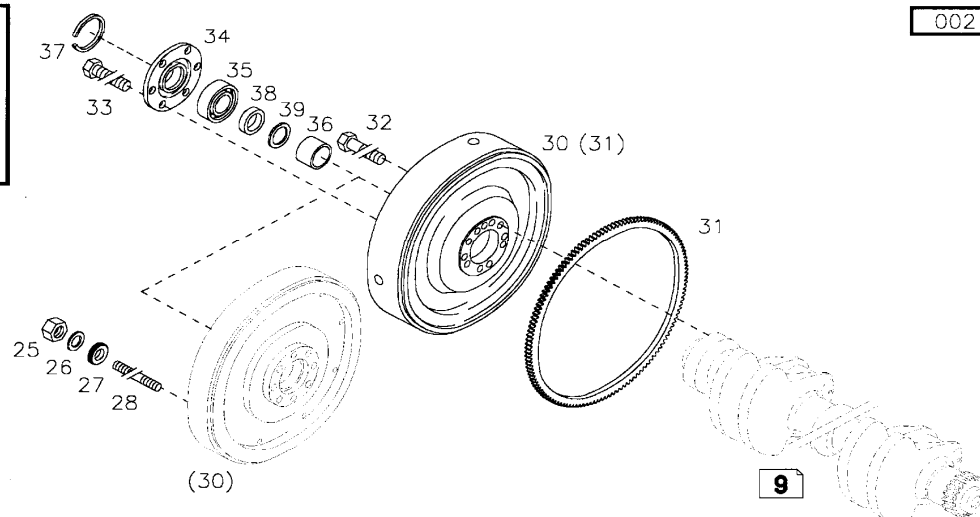
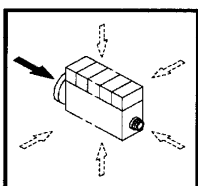
002 ©

Schwungrad
Flywheel
Volant
Volante

Referenznr.: _____

0150 -05- 0510 2068

002 ©



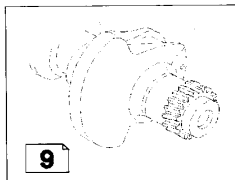
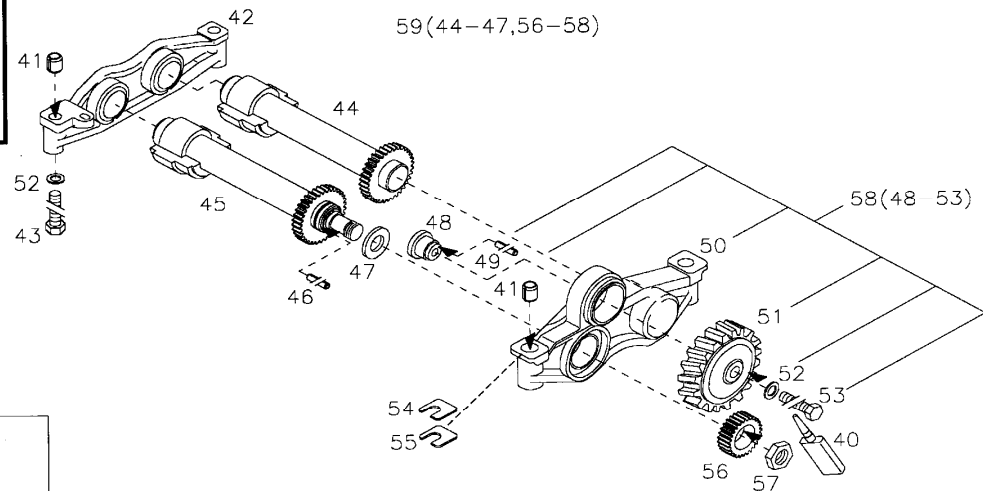
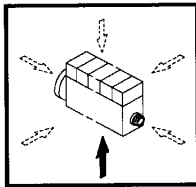
11

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLY**DATE: 26-11-09
REV: THIRTY
EIGHTMassenausgleichsgetriebe
Dynamic balancer
Equilibreur dynamique
Equilibrador masa

Referenznr.: _____

0150 -05- 0510 2088

002 ©



9

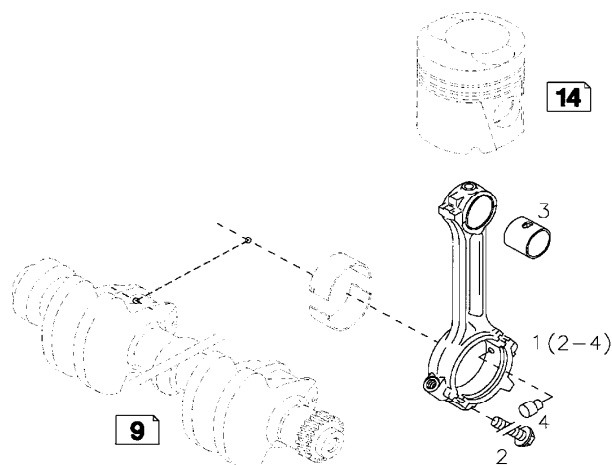
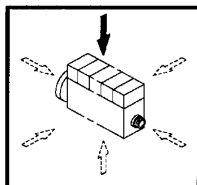
12

Pleuelstange
Connecting rod
Bielle
Bielu

Referenznr.: _____

0150 -06- 0510 2069

003 ©



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AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

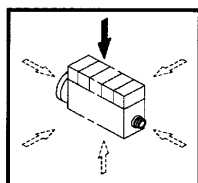
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EIGHT



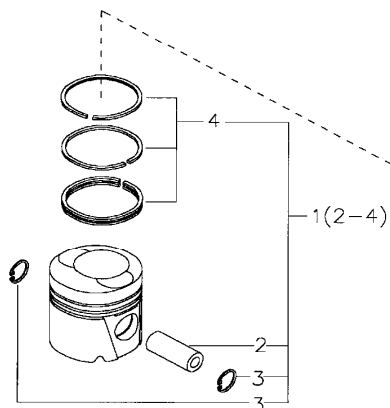
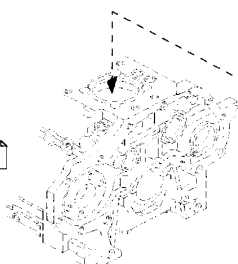
Kolben
Piston
Piston
Pistón

Referenznr.:

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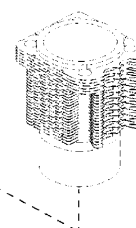


1



13

14



8

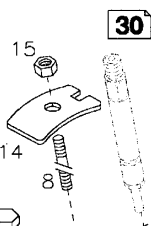
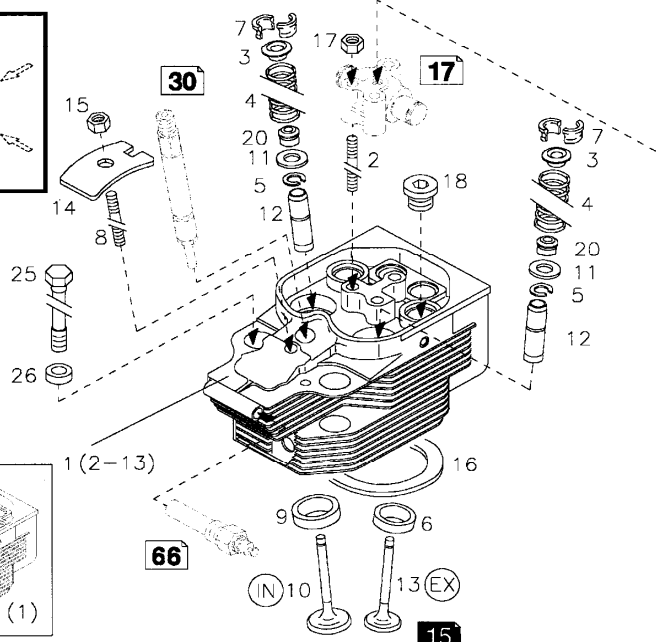
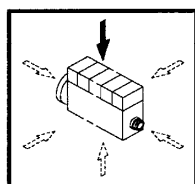
002 ©



Zylinderkopf
Cylinder head
Culasse
Culata

Referenznr.:

0150 -08- 0510 2071

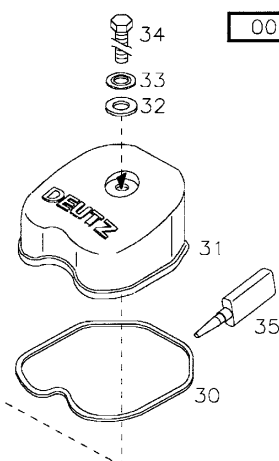


66

IN 10

13 EX

15



003 ©

AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

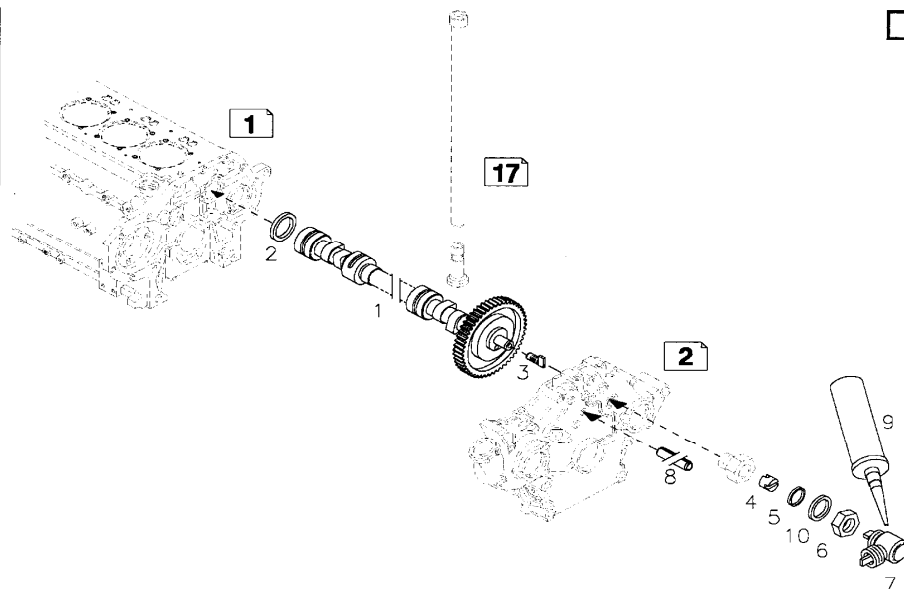
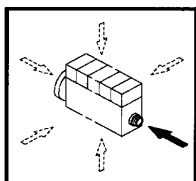
DATE: 26-11-09
REV: THIRTY
EIGHT



Nockenwelle
Camshaft
Arbre à cames
Arbol de levas

Referenznr.:

0150 -10- 0510 2072



002 ©

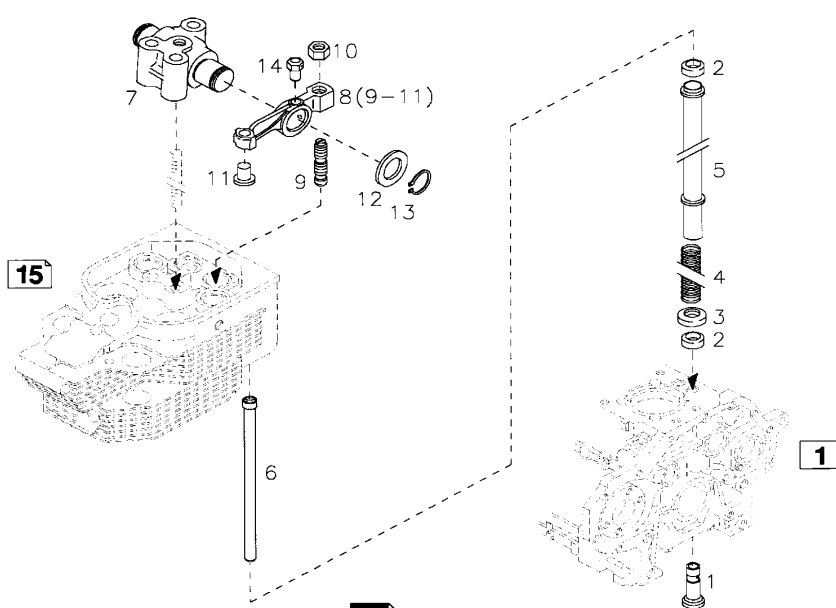
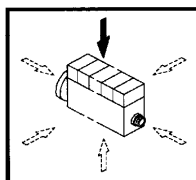
16



Steuerungsteile
Valve drive
Pièces de distribution
Piezas de distribución

Referenznr.:

0150 -11- 0510 2073



002 ©

17



**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLY**

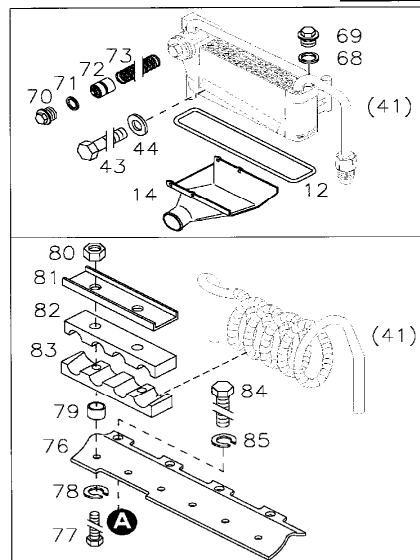
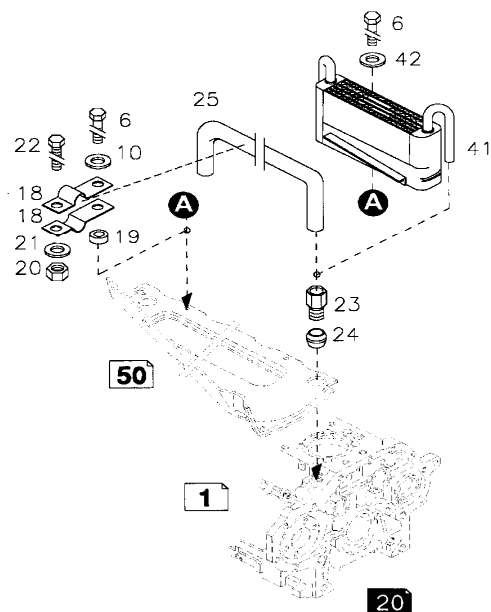
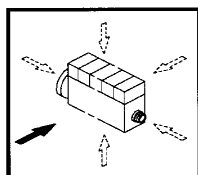
DATE: 26-11-09
REV: THIRTY
EIGHT



Schmierölkühler
Lubricating oil cooler
Refroidisseur d'huile
Enfriador de aceite de lubricación

Referenznr.:

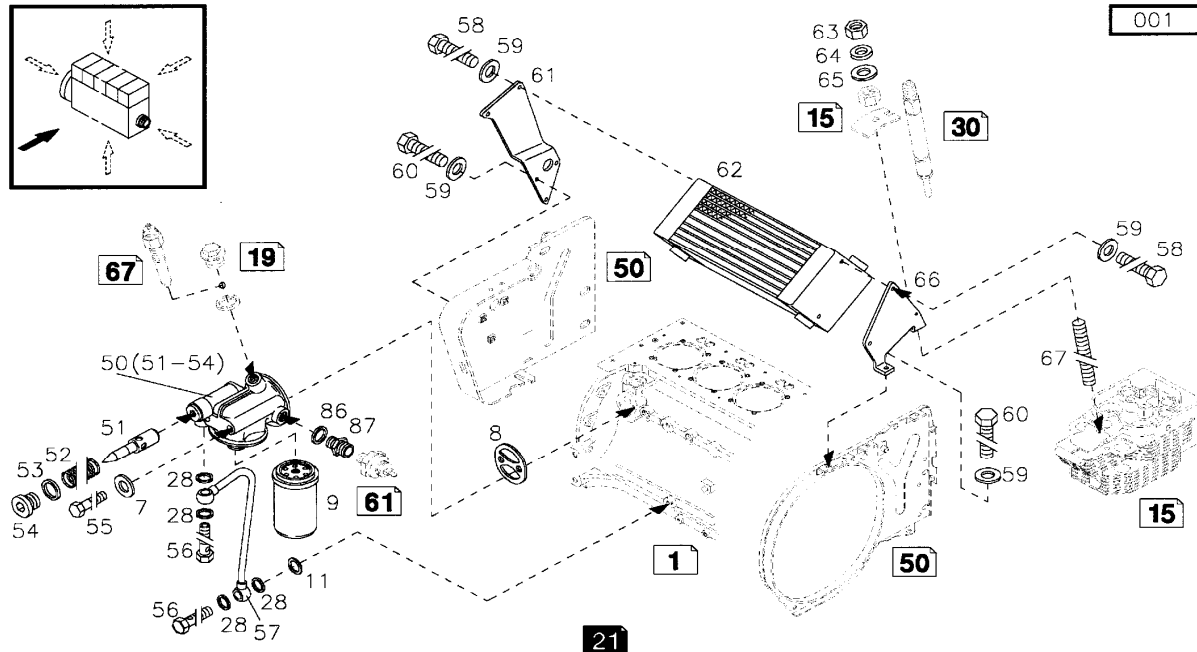
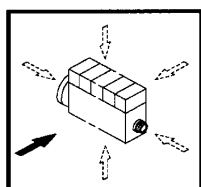
0150(-15-)0510 2221



Schmierölkühler
Lubricating oil cooler
Refrroidisseur d'huile
Enfriador de aceite de lubricación

Referenznr.:

0150 -15- 0510 2089



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

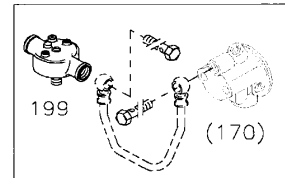
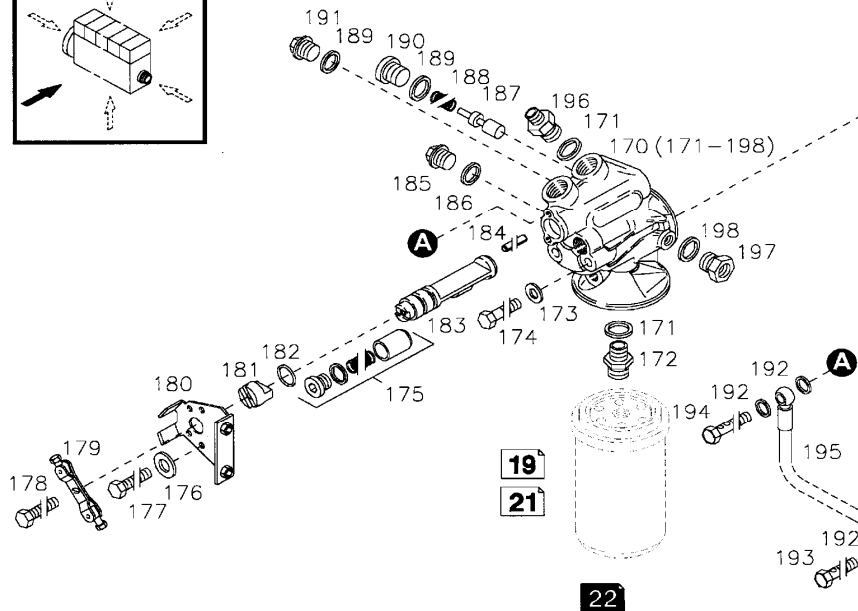
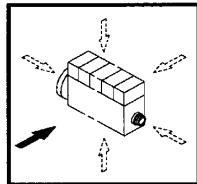


Umschalter
Change over switch
Tiroir pilote
Conmutador

Referenznr.:

0150 -15- 0510 2222

000 ©

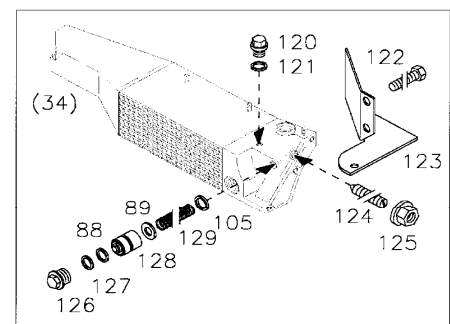
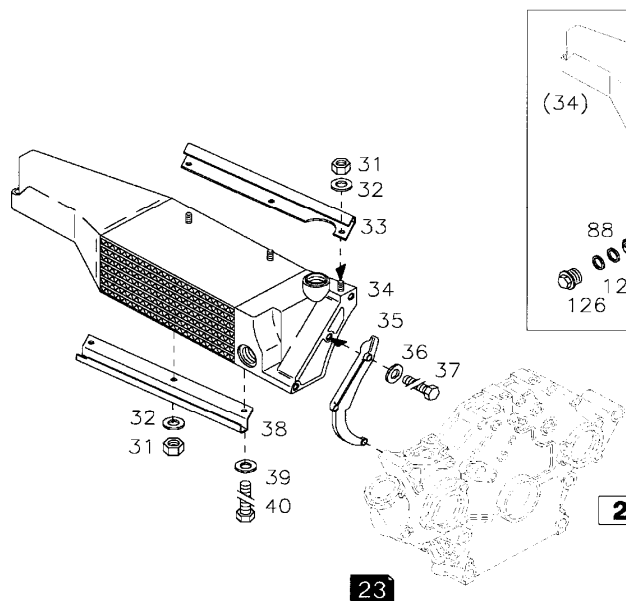
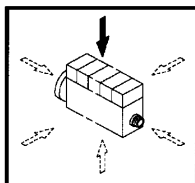


Getriebeölkühler
Main drive gear oil cooler
Refroidisseur d'huile de boîte de vitesses
Enfriador de aceite de reductor

Referenznr.:

0150 -15- 0510 2076

002 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

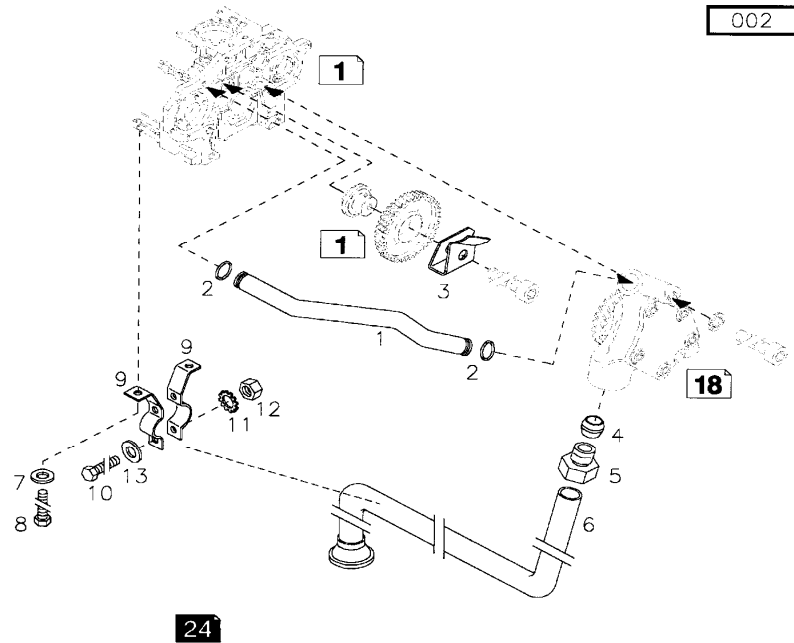
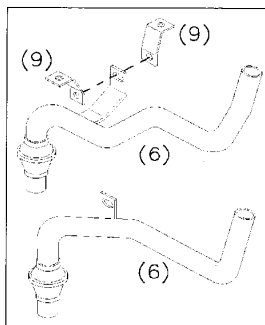
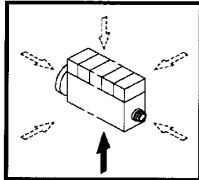
DATE: 26-11-09
REV: THIRTY
EIGHT



Ölsaugrohr
Oil suction pipe
Tubulure d'aspirat d'huile
Tubo aspir. aceite

Referenznr.:

0150 -16- 0510 2077



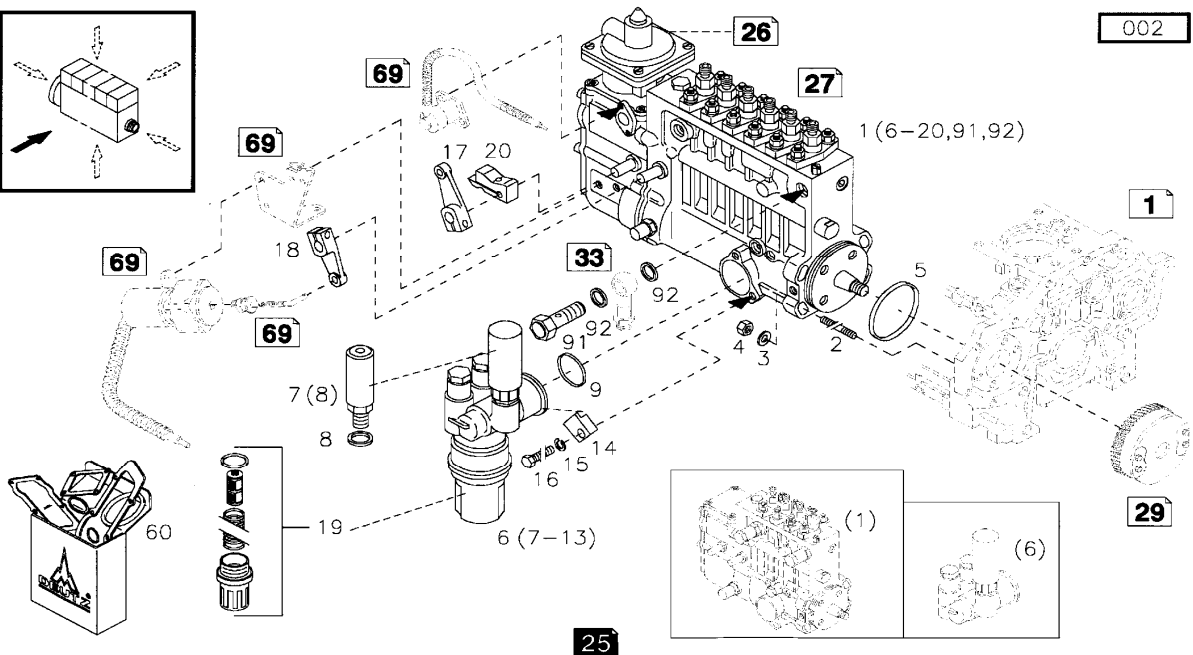
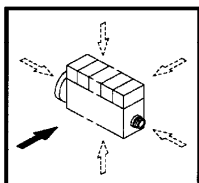
002 ©



Einspritzpumpe
Fuel injection pump
Pompe d'injection
Bomba de inyección

Referenznr.:

0150 -17- 0510 2078



002 ©

**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLY**

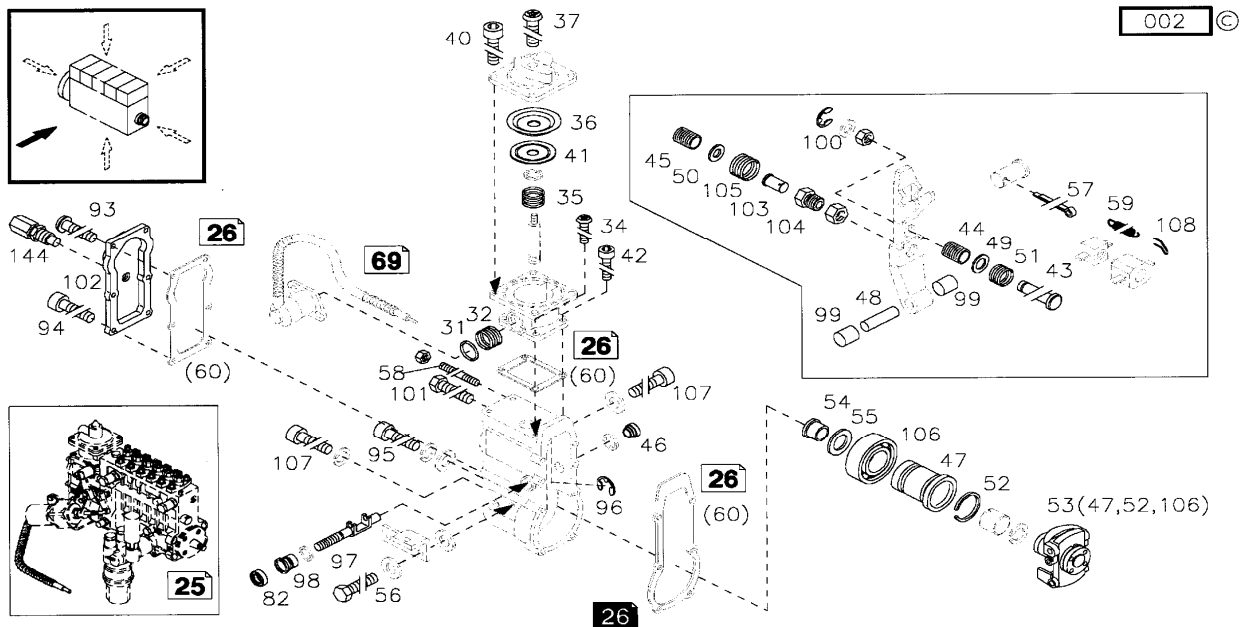
DATE: 26-11-09
REV: THIRTY
EIGHT



Teile Drehzahlregler
Parts of speed governor
Pièces détachées de régulateur de vitesse
Componentes para regulador de velocidad

Referenznr.:

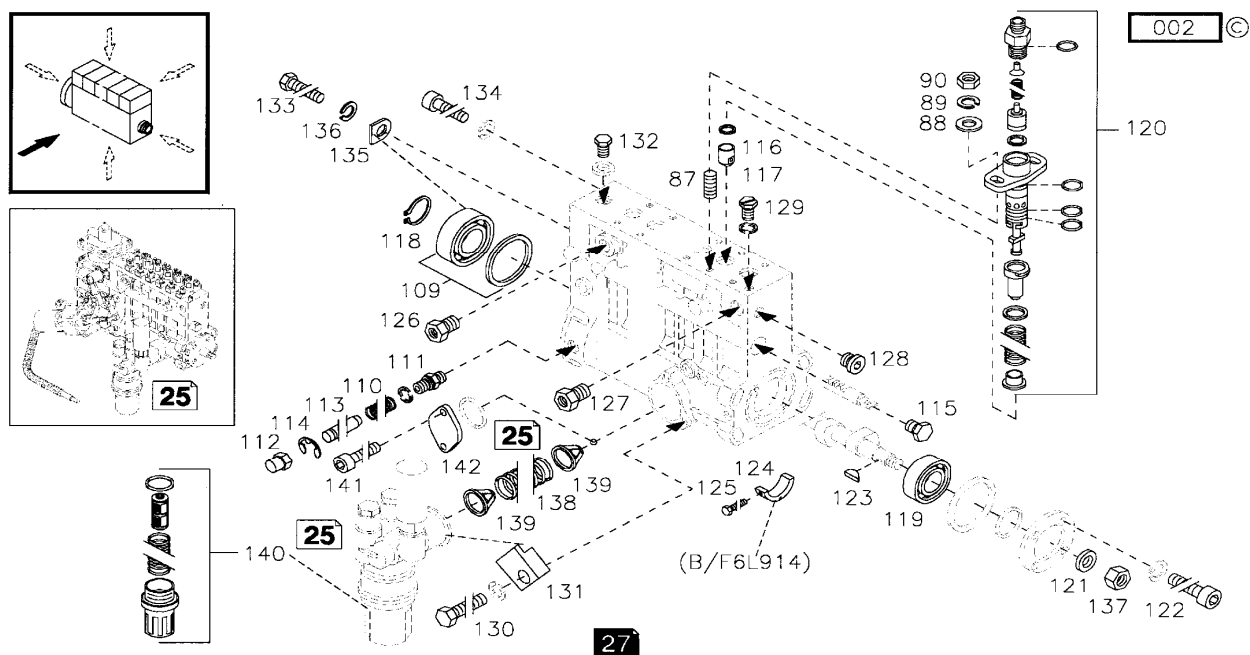
0150 -17- 0510 2081



Teile zur Einspritzpumpe
Parts of fuel injection pump
Pièces détachées de pompe d'injection de comb.
Componentes para bombas de inyección

Referenznr.:

0150 -17- 0510 2080



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

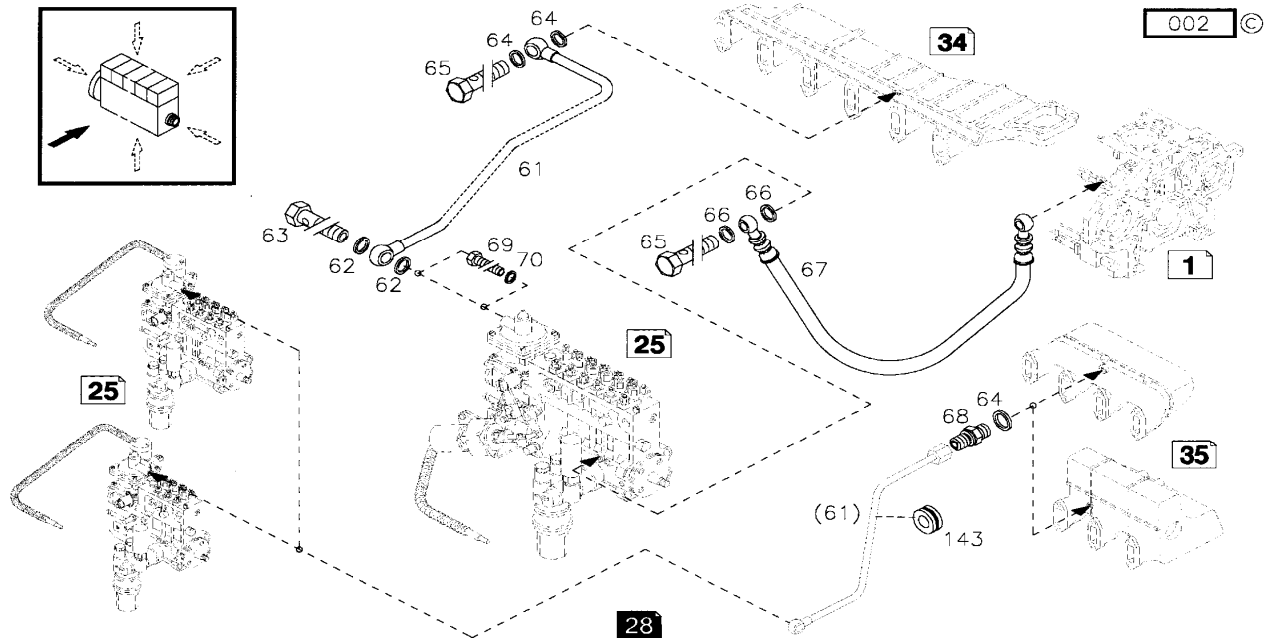
DATE: 26-11-09
REV: THIRTY
EIGHT



Schmierölleitung
Lubricating oil line
Conduite à huile de lubrification
Tubería de aceite de lubricación

Referenznr.: _____

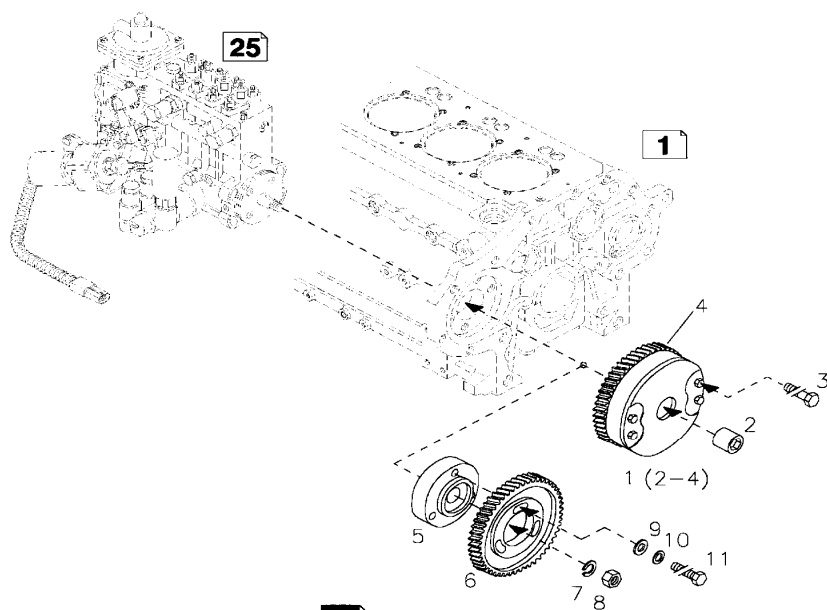
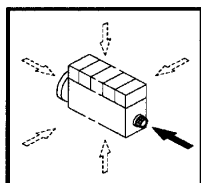
0150 -17- 0510 2079



Einspritzpumpenantrieb
Fuel injection pump drive
Entrainement de Pompe d'injection
Accto. de Bomba de inyección

Referenznr.: _____

0150 -18- 0510 2082



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AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

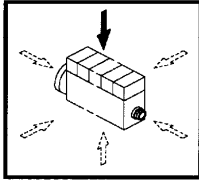
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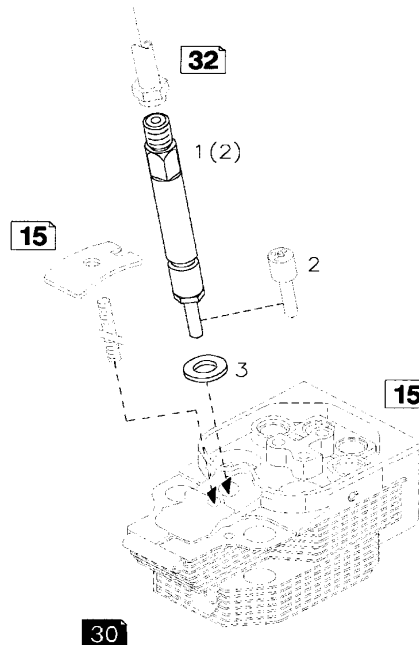
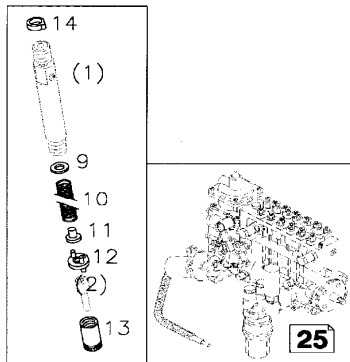
Einspritzventil
Fuel injector
Porte-injecteur de combustible complet
Injector

Referenznr.: _____

0150 -19- 0510 2083



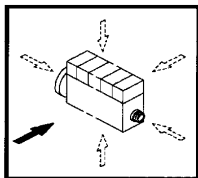
003 ©



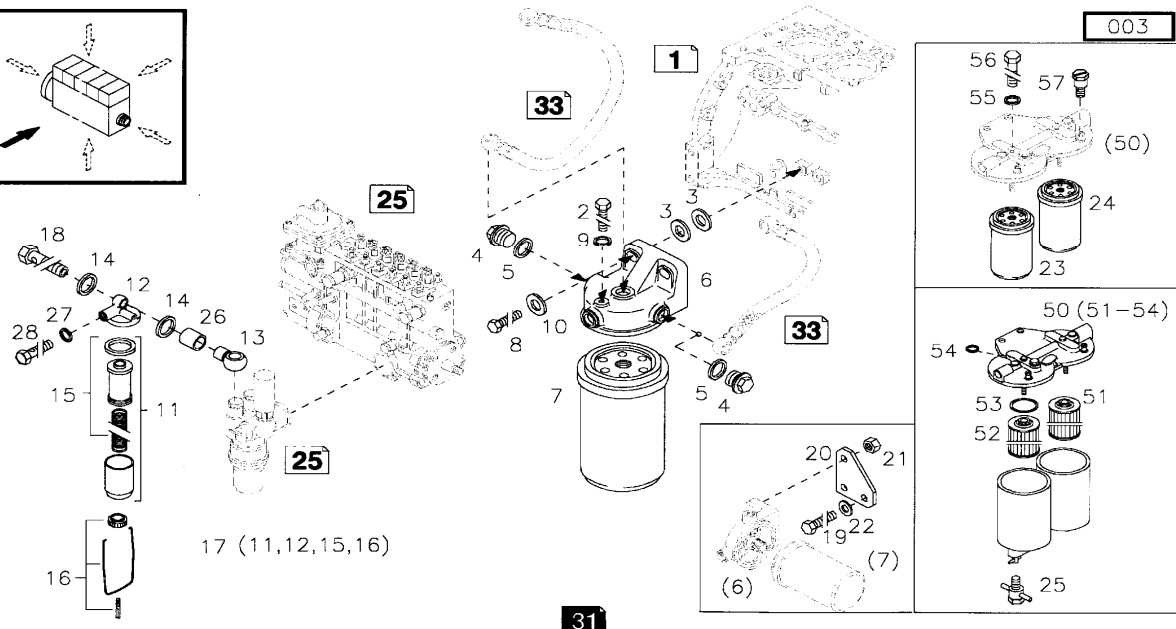
Kraftstofffilter
Fuel filter
Filtre à combustible
Filtro de combustible

Referenznr.: _____

0150 -20- 0510 2084



003 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

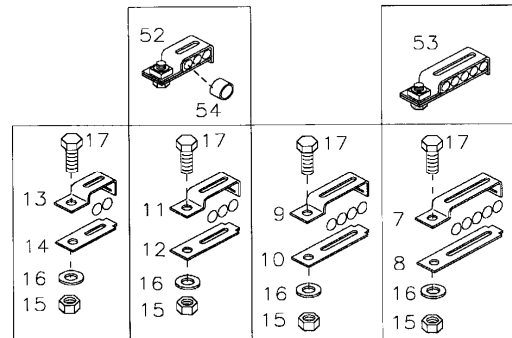
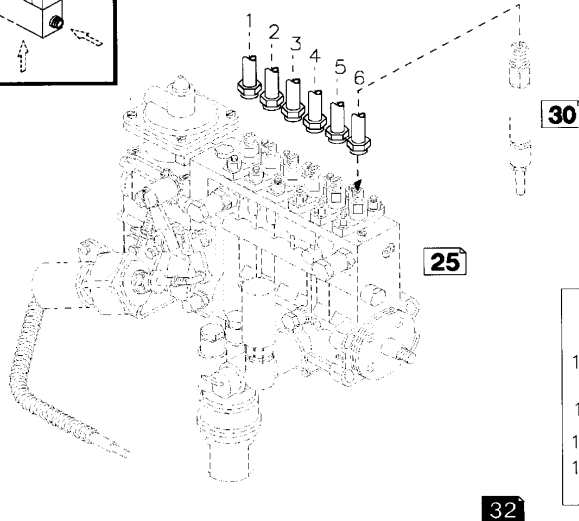
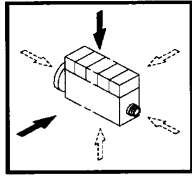


Kraftstoffleitung
Fuel line
Conduite à combustible
Tuberia de combustible

Referenznr.:

0150 -21- 0510 2085

002 ©

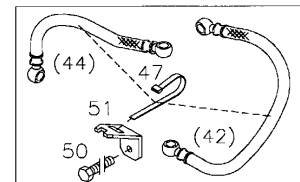
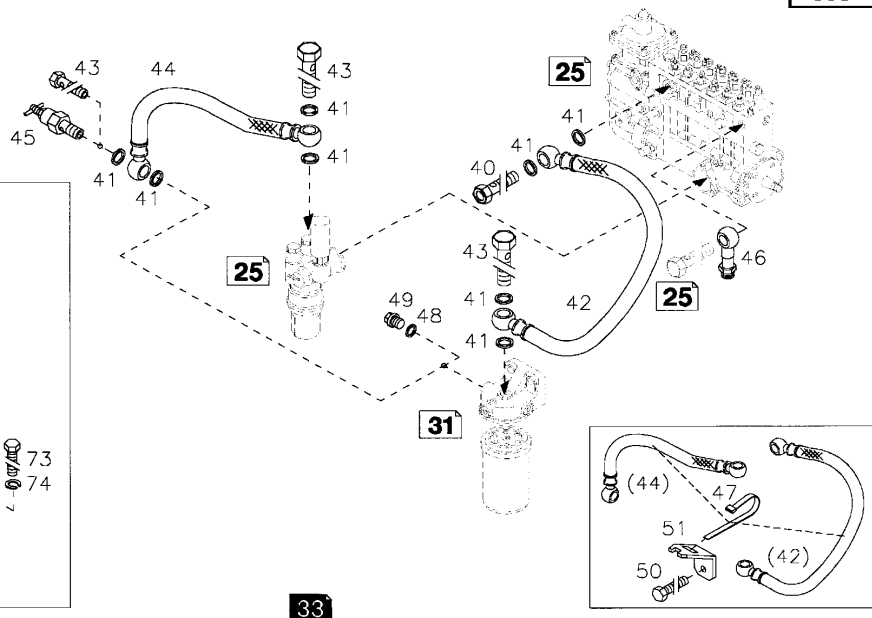
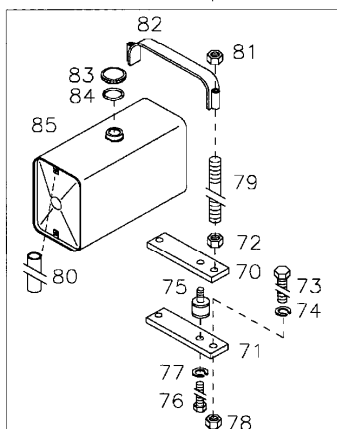
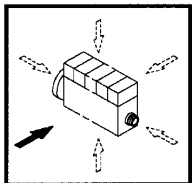


Kraftstoffleitung
Fuel line
Conduite à combustible
Tuberia de combustible

Referenznr.:

0150 -21- 0510 2126

003 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

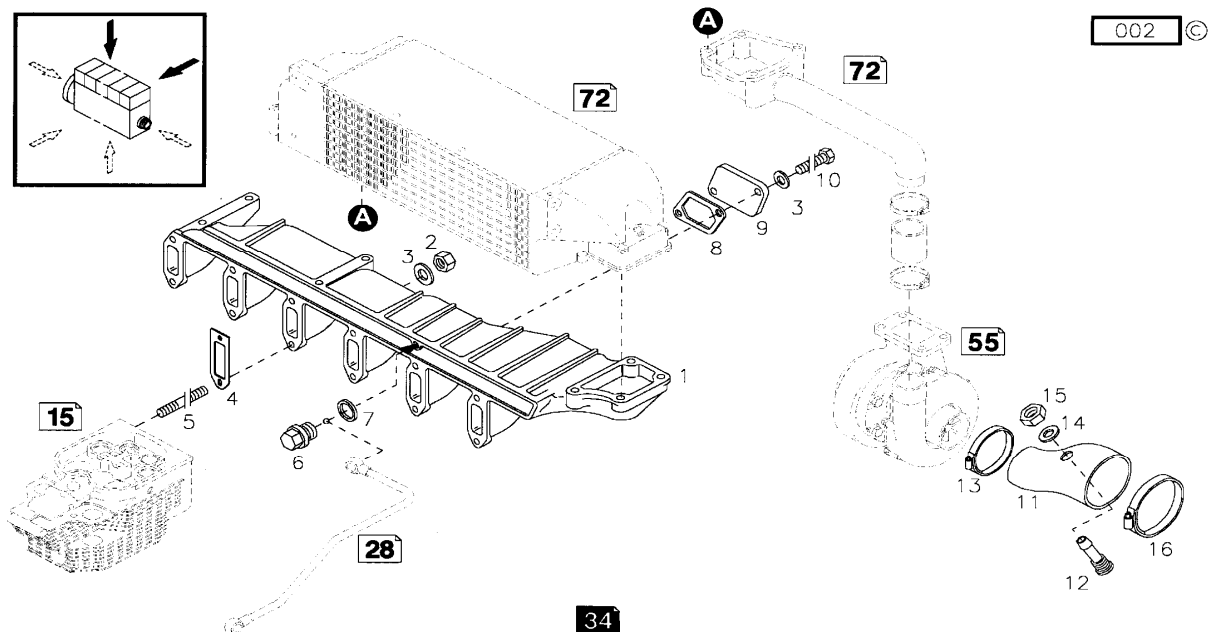
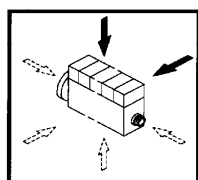
DATE: 26-11-09
REV: THIRTY
EIGHT



Ladeluftleitung
Charge air pipe
Tubulure d'air de suralimentation
Tubería de aire de sobrealimentación

Referenznr.: _____

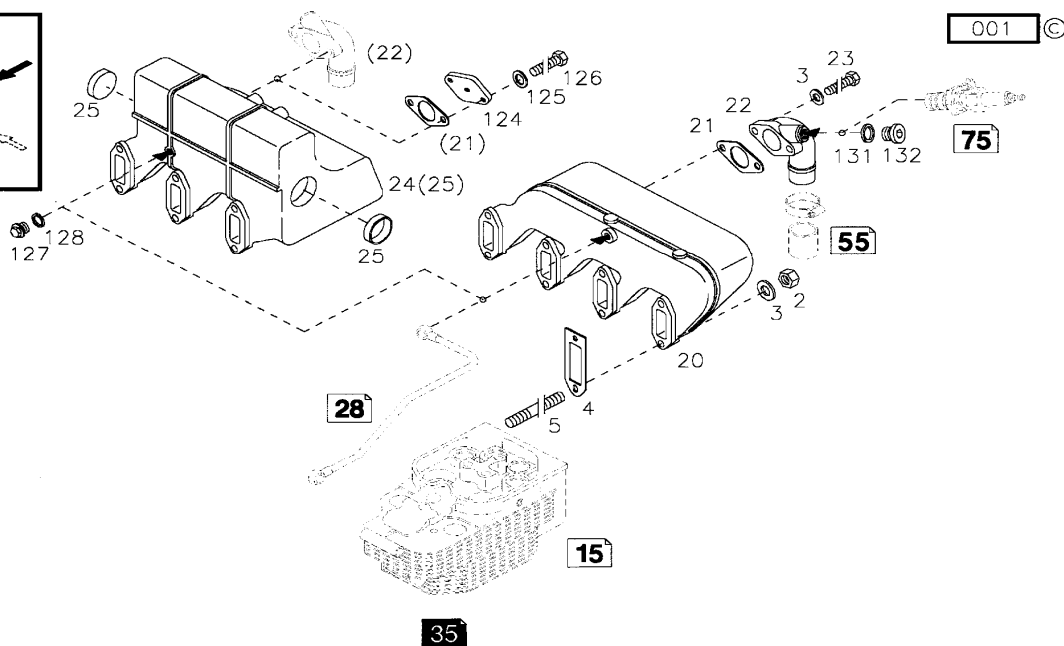
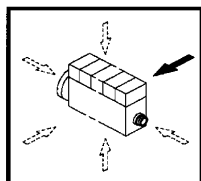
0150 -22- 0510 2086



Ladeluftleitung
Charge air pipe
Tubulure d'air de suralimentation
Tubería de aire de sobrealimentación

Referenznr.: _____

0150 -22- 0510 2097



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

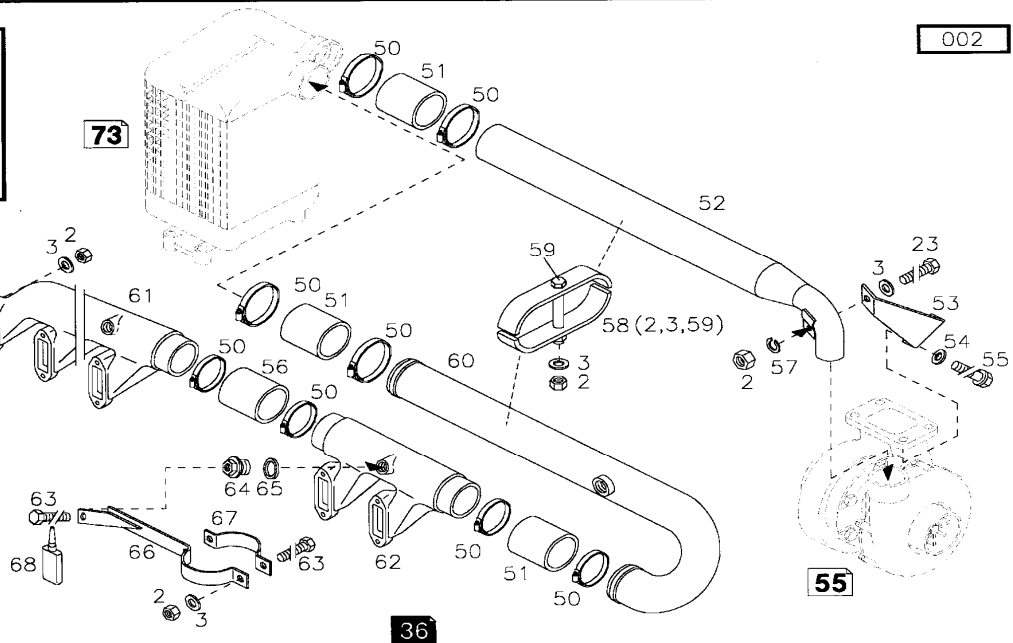
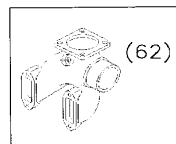
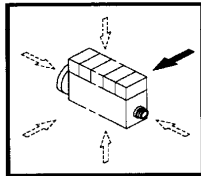


Ladeluftleitung
Charge air pipe
Tubulure d'air de suralimentation
Tubería de aire de sobrealimentación

Referenznr.:

0150 -22- 0510 2127

002 ©

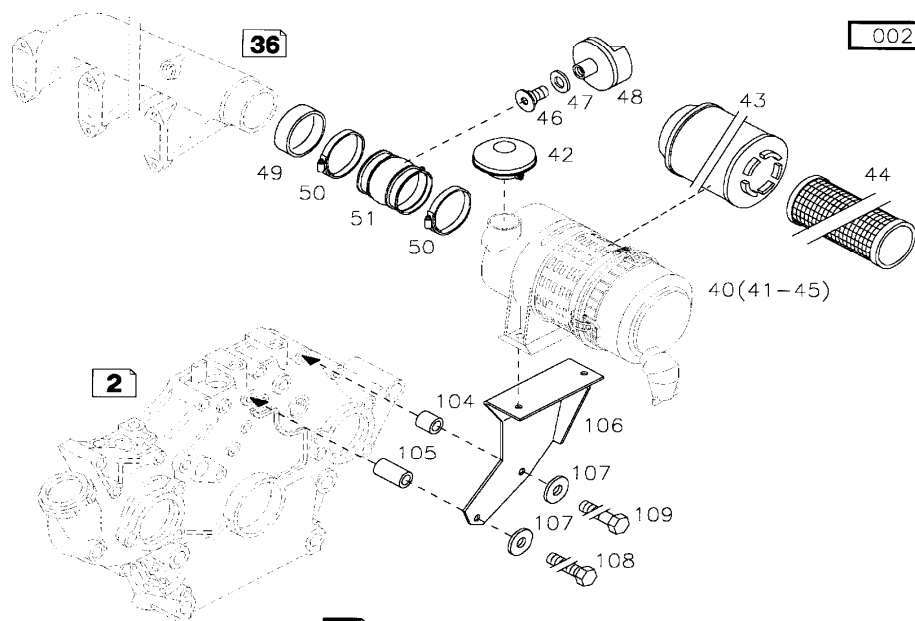
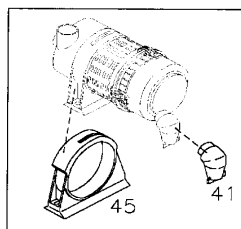
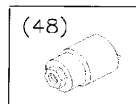
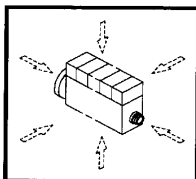


Luftfilter
Air filter
Filtre à air
Filtro de aire

Referenznr.:

0150 -22- 0510 2087

002 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

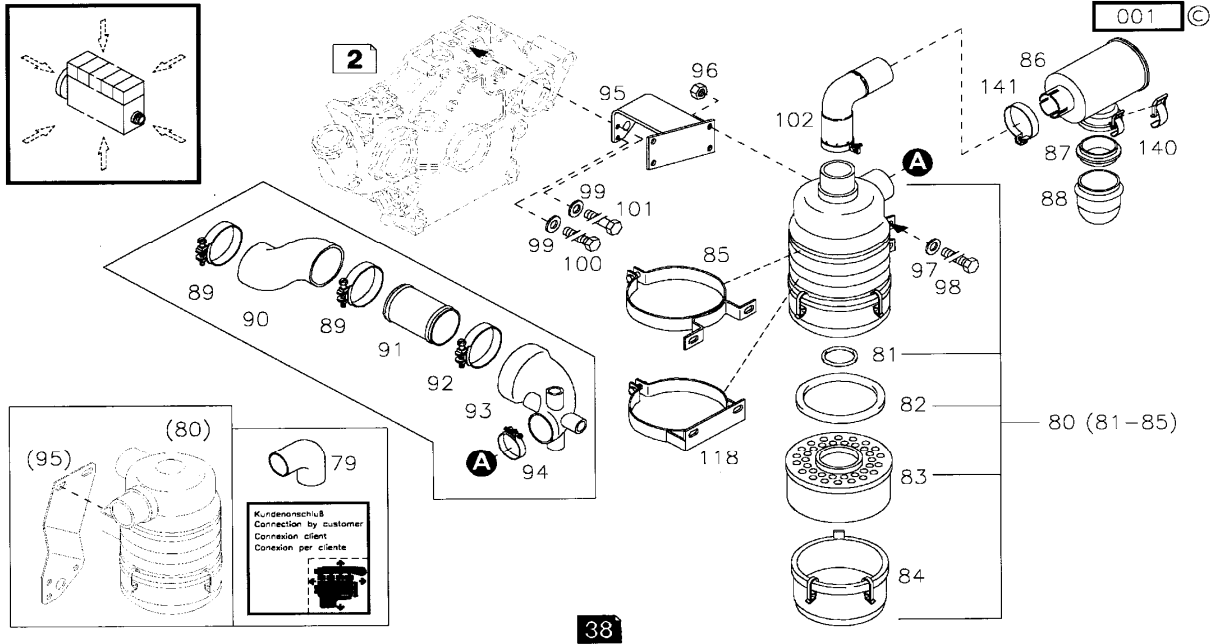
DATE: 26-11-09
REV: THIRTY
EIGHT



Luftfilter
Air filter
Filtre à air
Filtro de aire

Referenznr.:

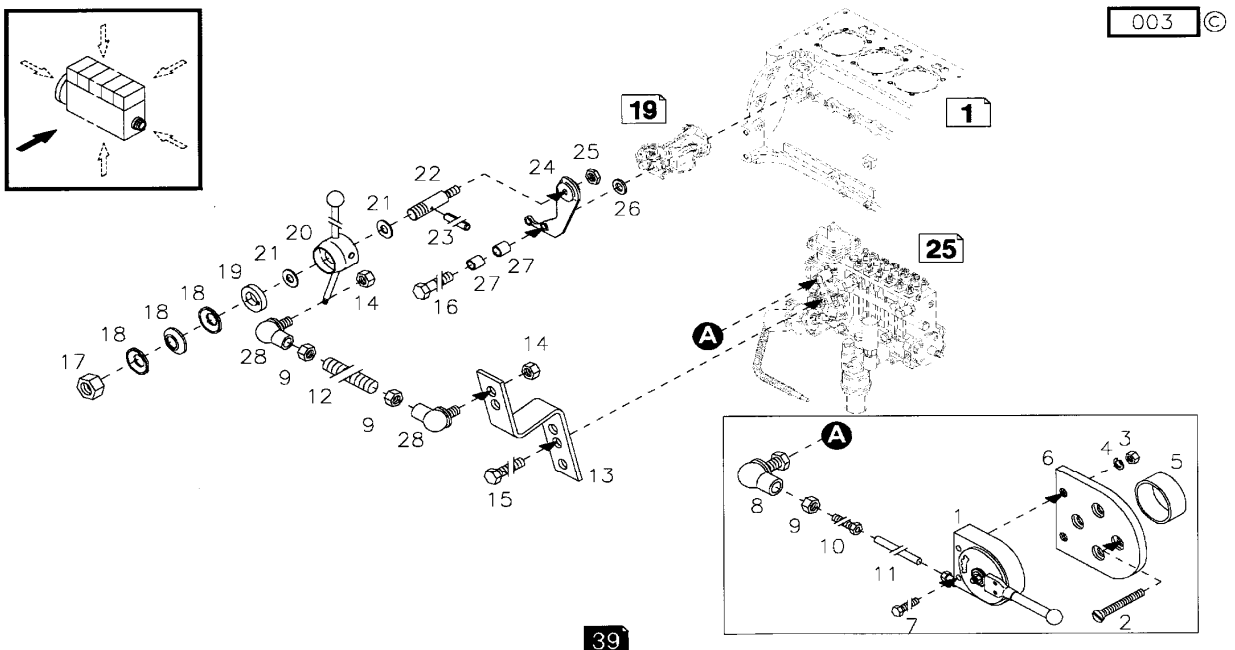
0150 -22- 0510 2131



Drehzahlverstellung
Speed adjustment
Reglage de vitesse
Variación de revoluciones

Referenznr.:

0150 -29- 0510 2125



**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLY**

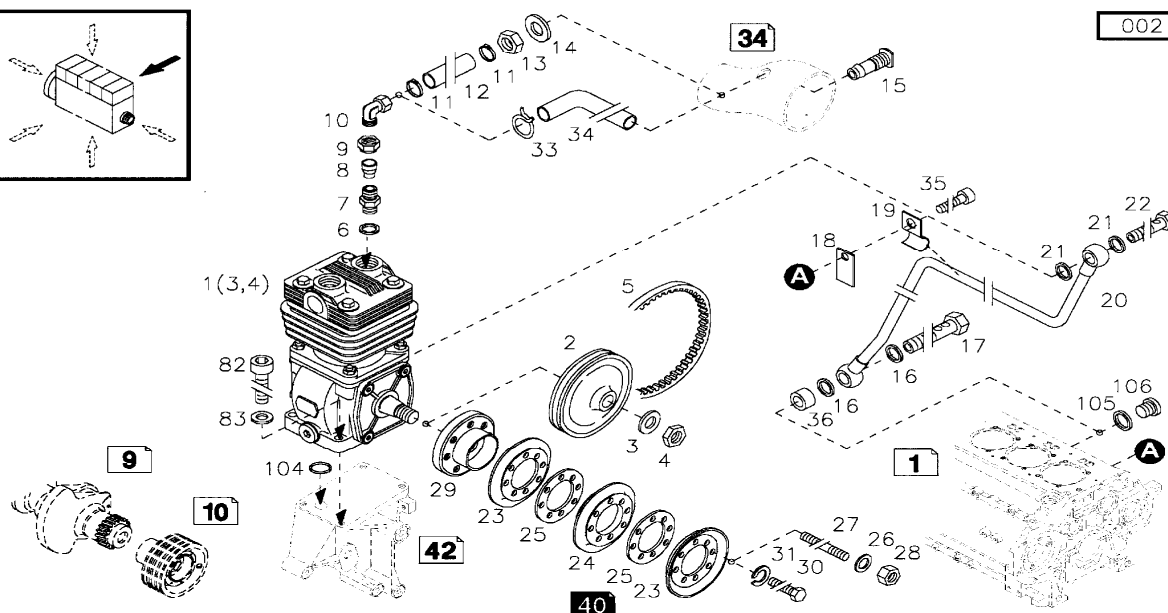
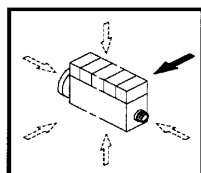
DATE: 26-11-09
REV: THIRTY
EIGHT



Luftkompressor
Air compressor
Compresseur d'air
Compresor

Referenznr.:

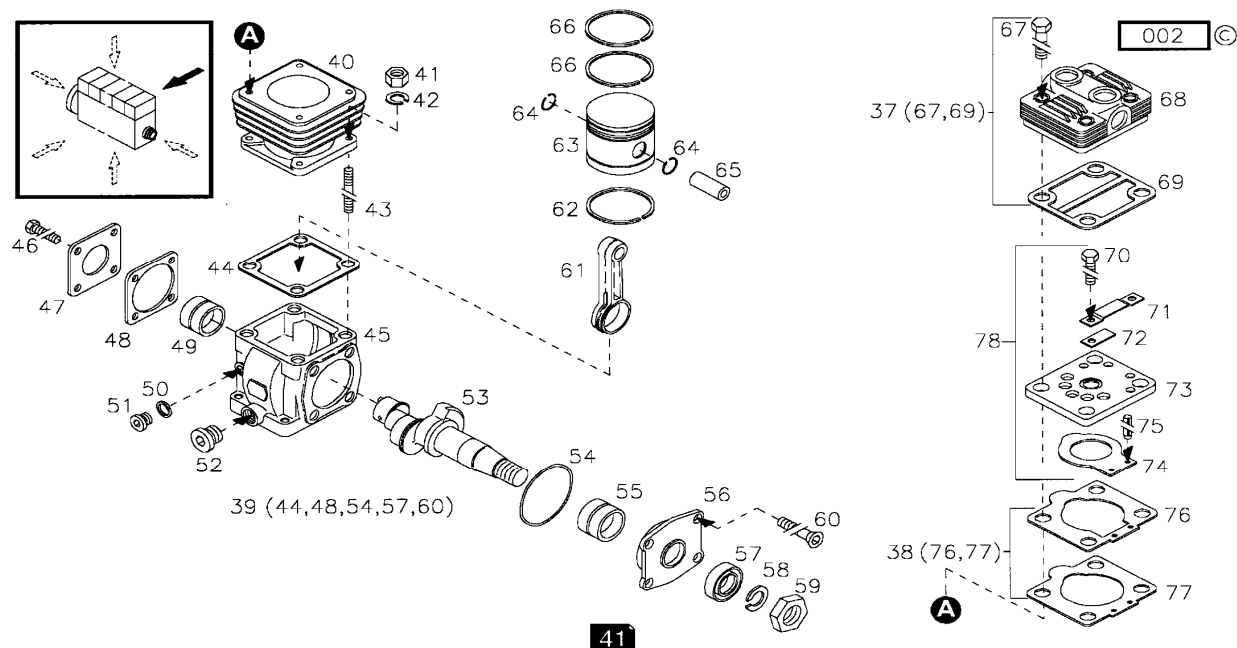
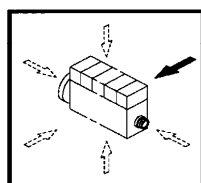
0150 -33- 0510 2091



Luftkompressor
Air compressor
Compresseur d'air
Compresor

Referenznr.:

0150 -33- 0510 2092



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

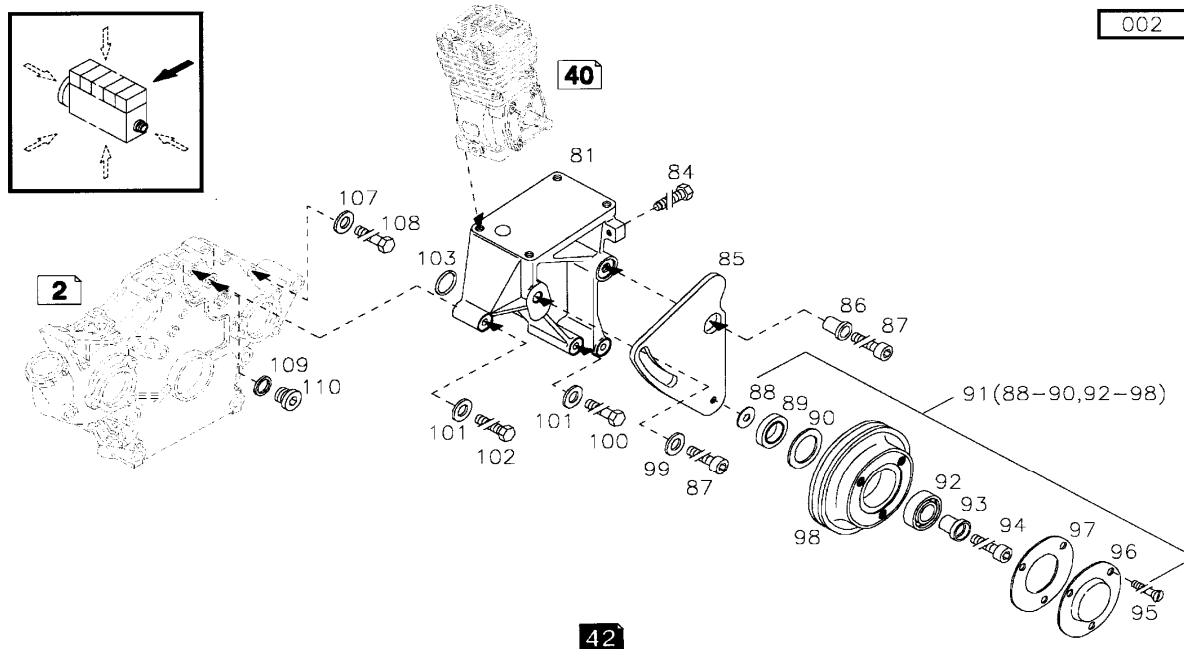


Luftkompressor
Air compressor
Compresseur d'air
Compresor

Referenznr.:

0150 -33- 0510 2093

002 ©

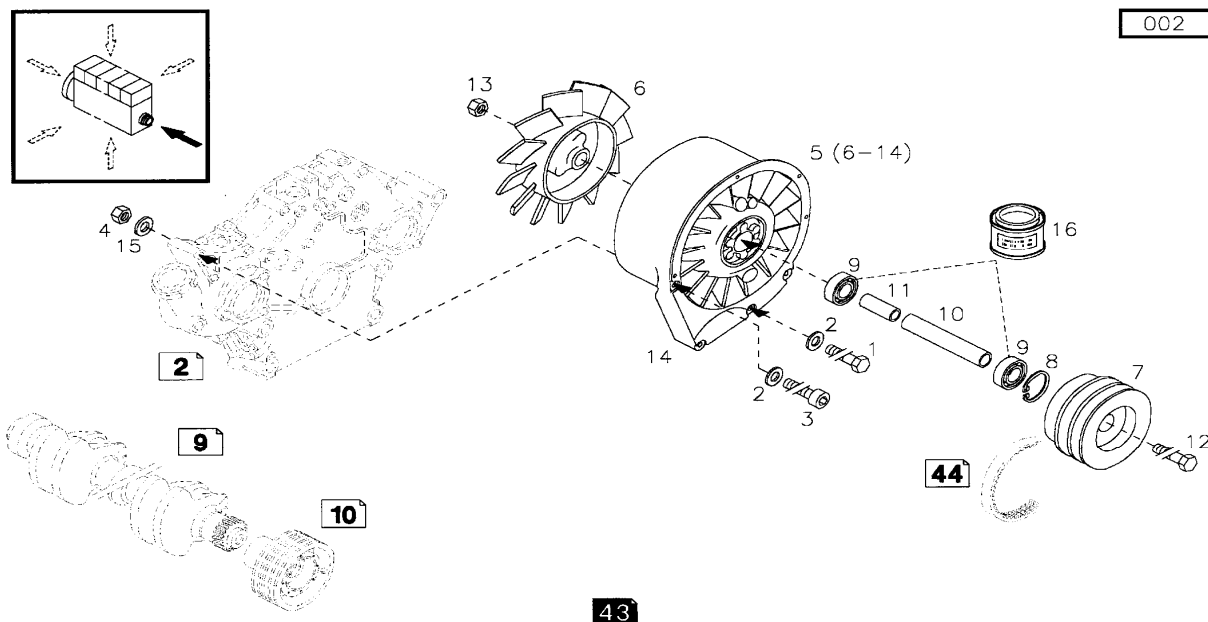


Kühlluftgebläse
Cooling blower
Soufflante d'air de refroidissement
Ventilador

Referenznr.:

0150 -39- 0510 2096

002 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

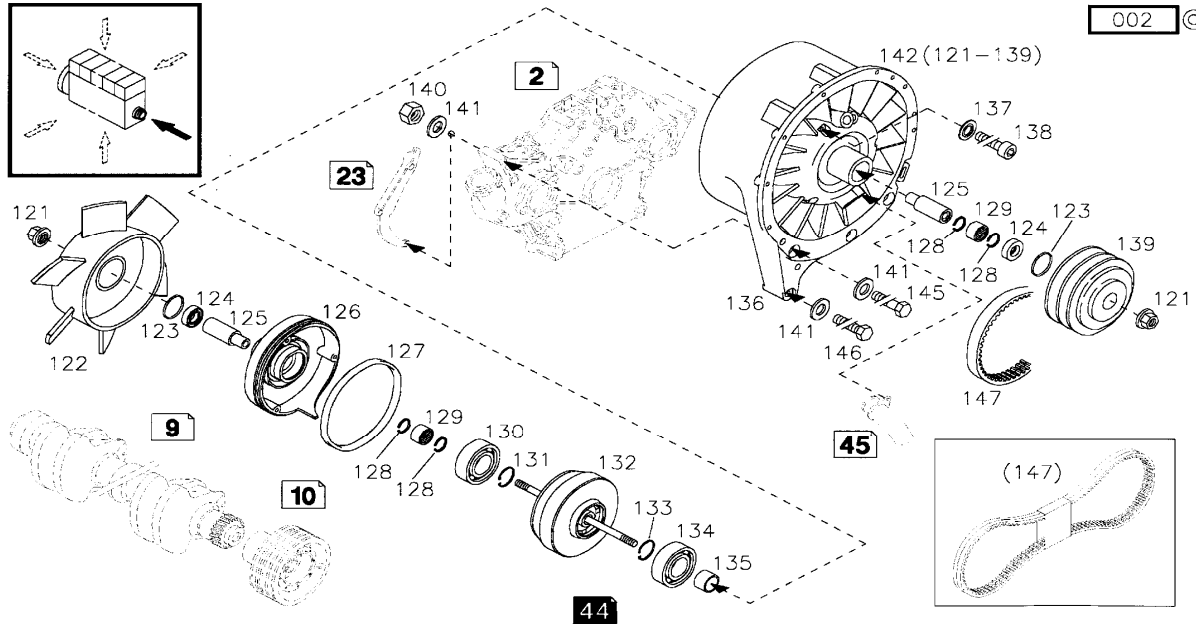


Kühlluftgebläse
Cooling blower
Soufflante d'air de refroidissement
Ventilador

Referenznr.:

0150 -39- 0510 2095

002 ©

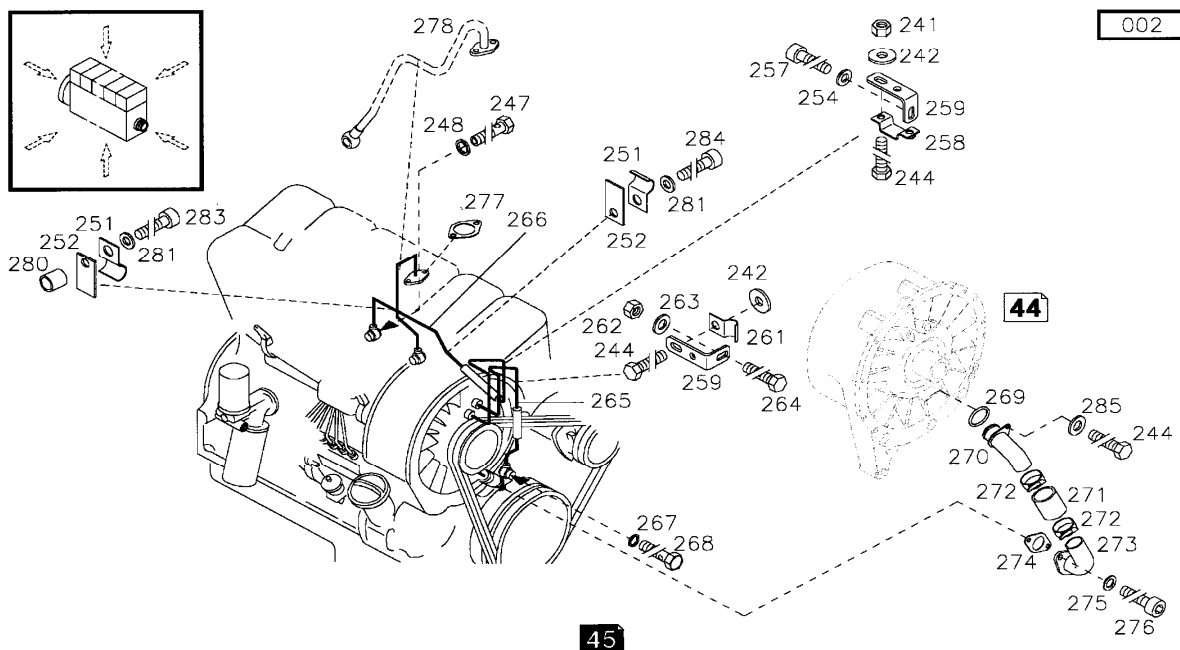


Kühlluftgebläse
Cooling blower
Soufflante d'air de refroidissement
Ventilador

Referenznr.:

0150 -39- 0510 2098

002 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

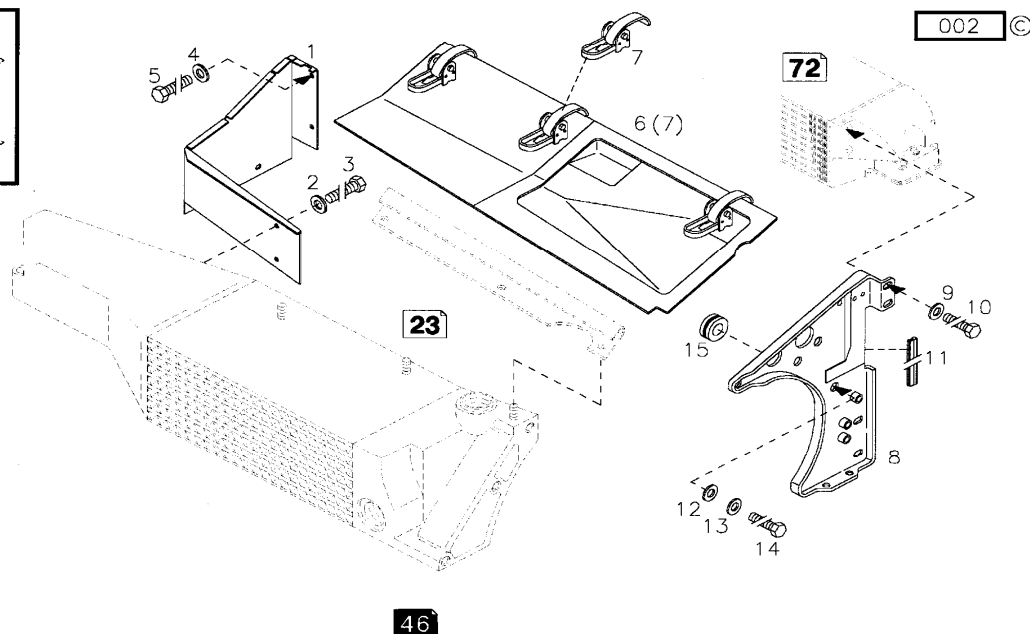
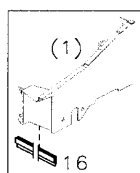
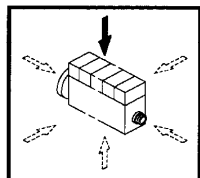
DATE: 26-11-09
REV: THIRTY
EIGHT



Kühlluftführung
Cooling air cowl
Canalisation d'air de refroidissement
Conducción de aire refrigerante

Referenznr.: _____

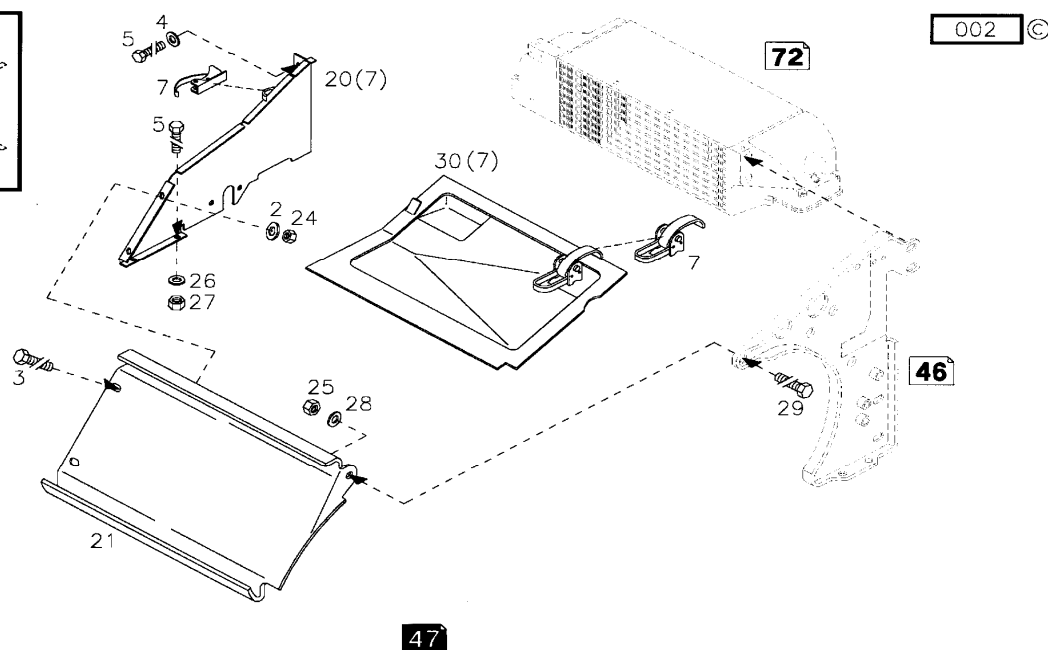
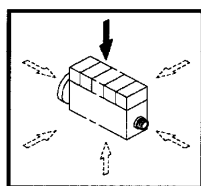
0150 -40- 0510 2099



Kühlluftführung
Cooling air cowl
Canalisation d'air de refroidissement
Conducción de aire refrigerante

Referenznr.: _____

0150 -40- 0510 2100



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

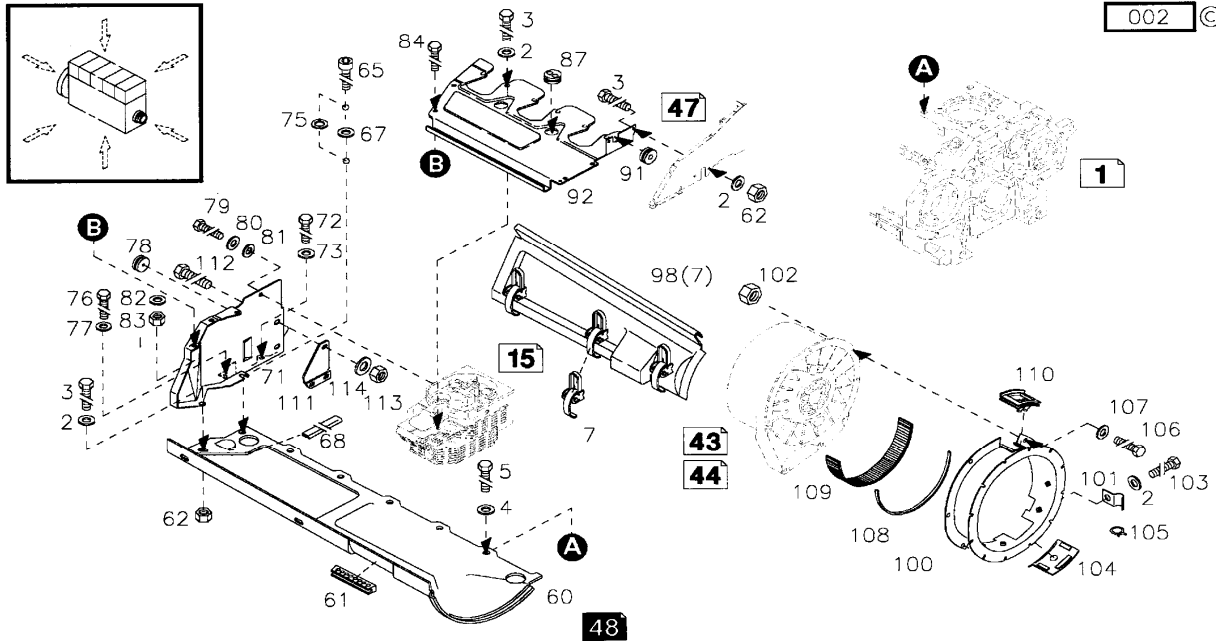


Kühlluftführung
Cooling air cowl
Canalisation d'air de refroidissement
Conducción de aire refrigerante

Referenznr.:

0150 -40- 0510 2101

002 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

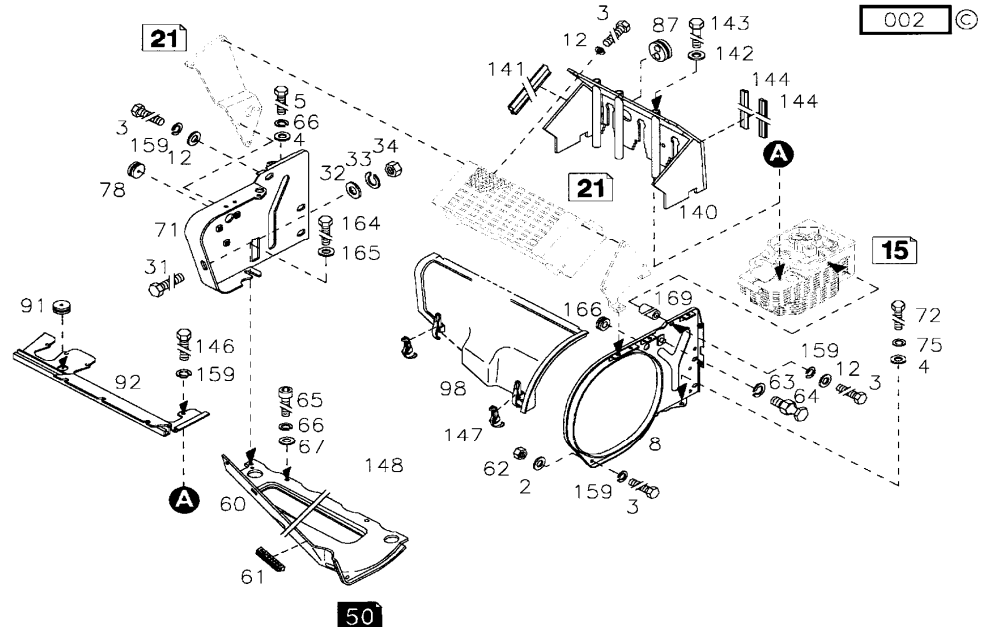
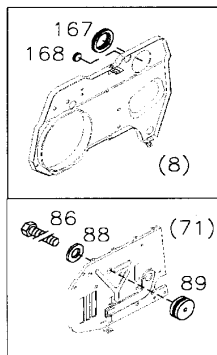
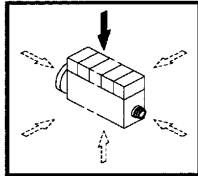
DATE: 26-11-09
REV: THIRTY
EIGHT



Kühlluftführung
Cooling air cowl
Canalisation d'air de refroidissement
Conducción de aire refrigerante

Referenznr.:

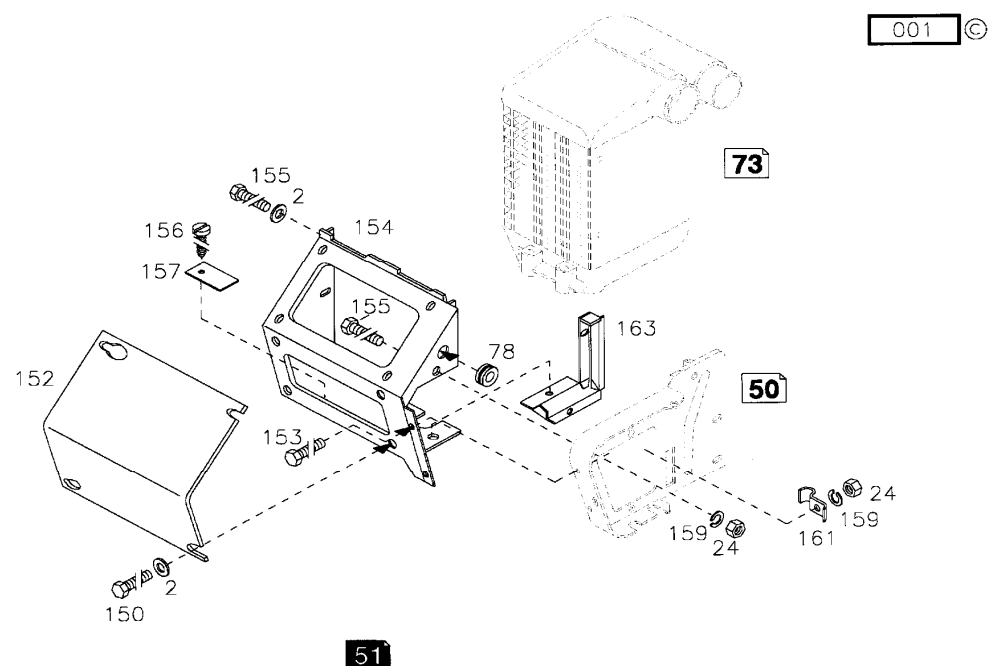
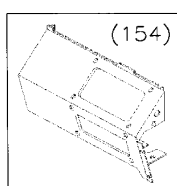
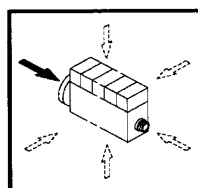
0150 -40- 0510 2110



Kühlluftführung
Cooling air cowl
Canalisation d'air de refroidissement
Conducción de aire refrigerante

Referenznr.:

0150 -40- 0510 2119



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

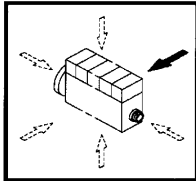
DATE: 26-11-09
REV: THIRTY
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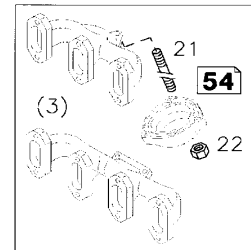
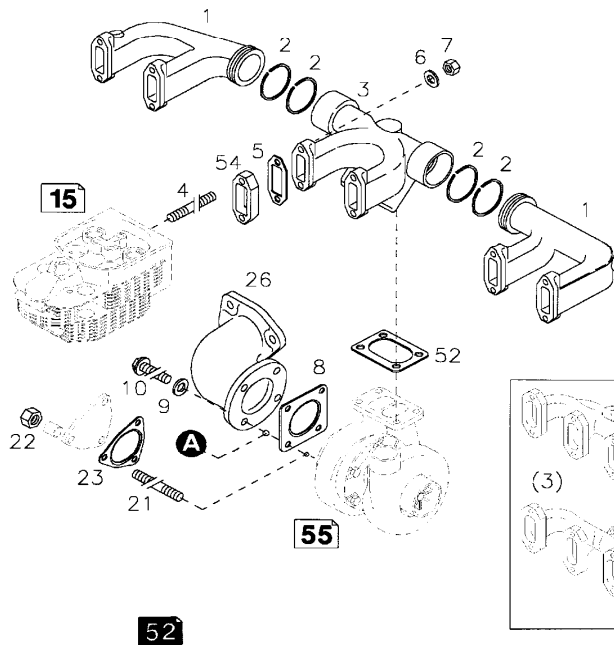
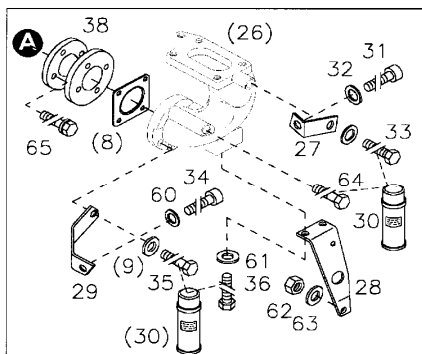
Abgasleitung
Exhaust pipe
Tubulure d'échappement
Tuberia de escape

Referenznr.:

0150 -41- 0510 2103



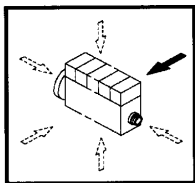
002 ©



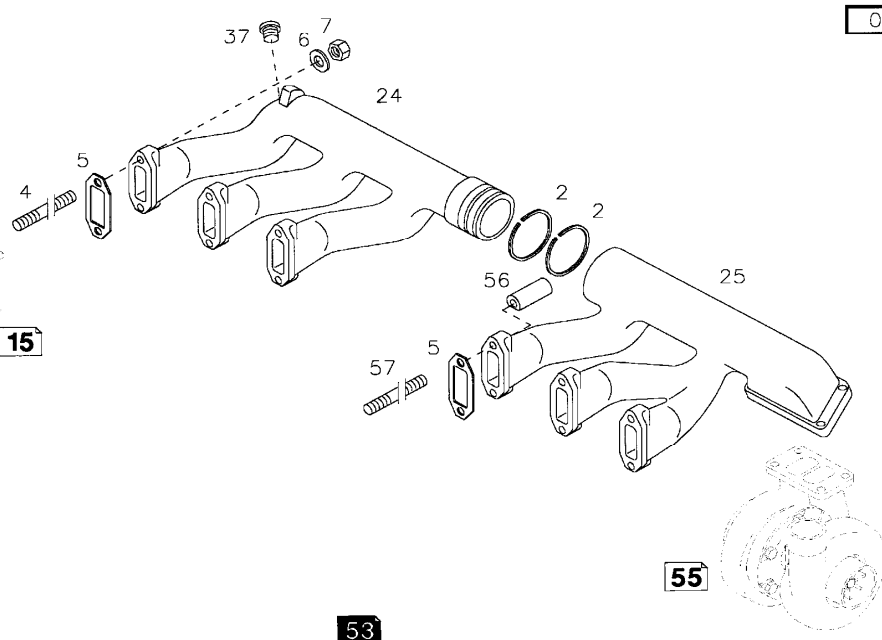
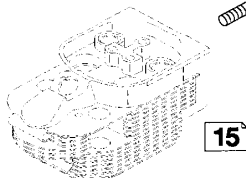
Abgasleitung
Exhaust pipe
Tubulure d'échappement
Tuberia de escape

Referenznr.:

0150 -41- 0510 2132



001 ©



55

53

AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

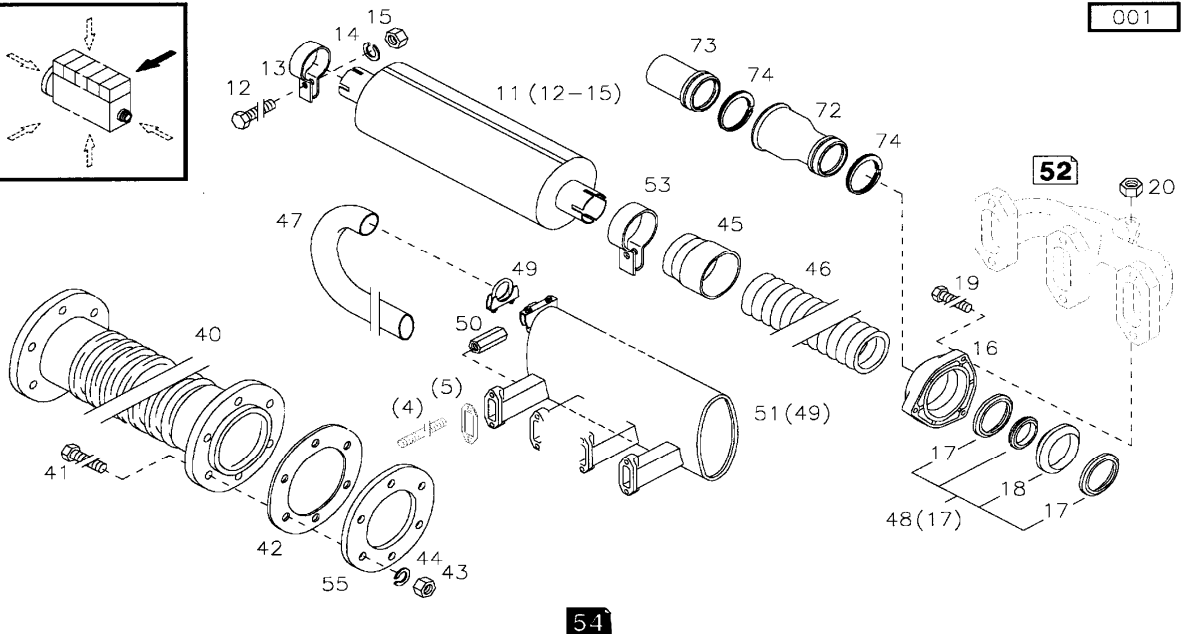
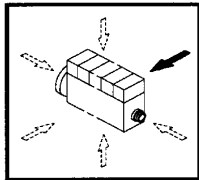


Abgasschalldämpfer
Exhaust silencer
Silencieux d'échappement
Silenciador de escape

Referenznr.:

0150 -41- 0510 2133

001 ©

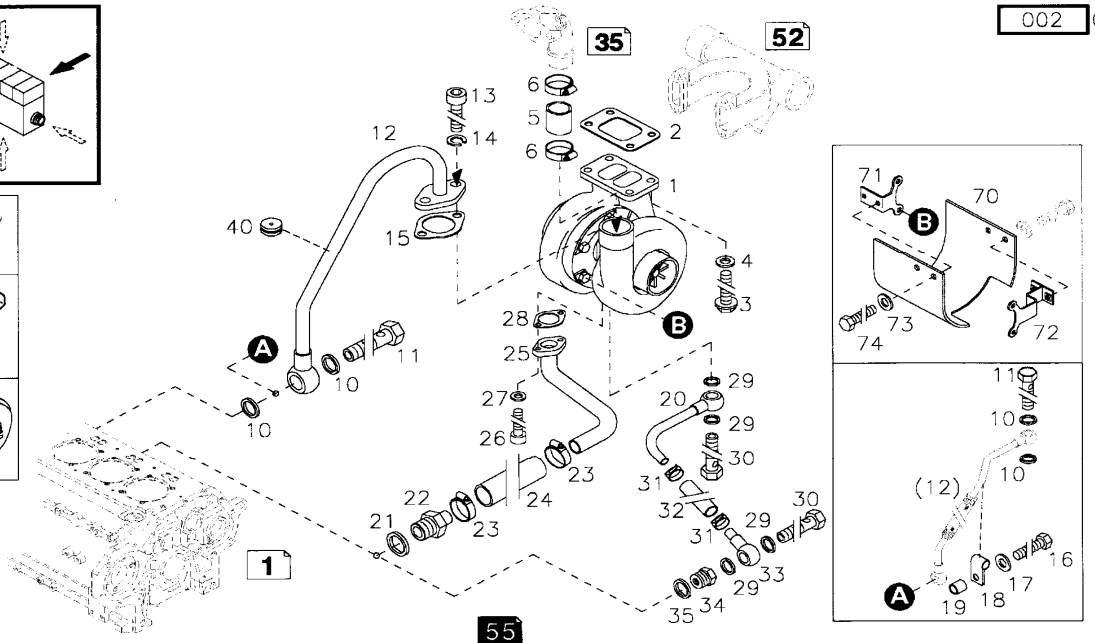
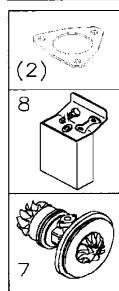
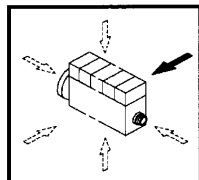


Abgasturbolader
Turbocharger
Turbocompresseur
Turbo

Referenznr.:

0150 -43- 0510 2105

002 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

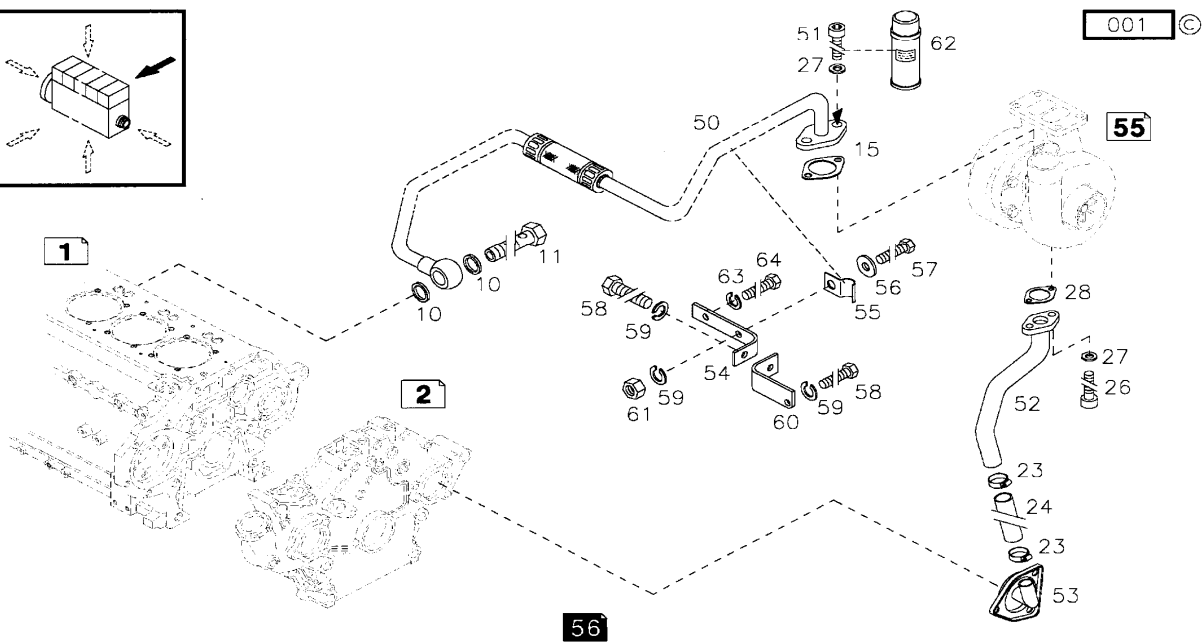
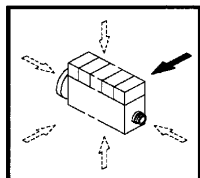
DATE: 26-11-09
REV: THIRTY
EIGHT



Schmierölleitung
Lubricating oil line
Conduite à huile de lubrification
Tubería de aceite de lubricación

Referenznr.:

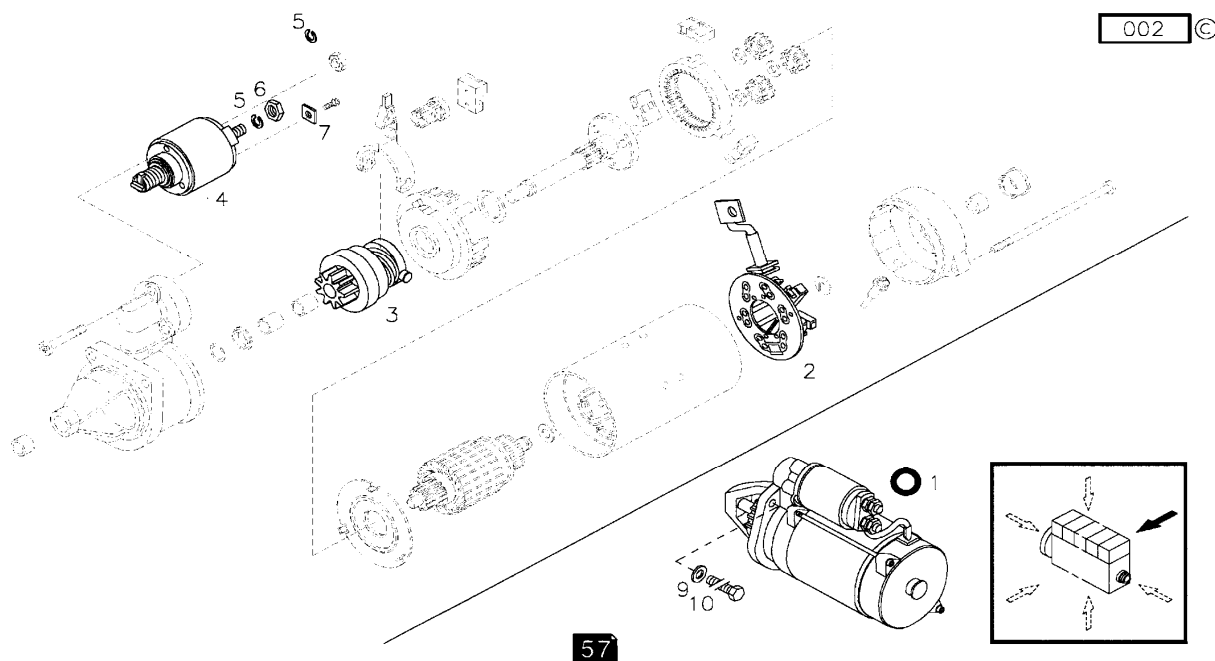
0150 -43- 0510 2134



Starter
Starter
Demarreur
Arrancador

Referenznr.:

0150 -44- 0510 2107



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

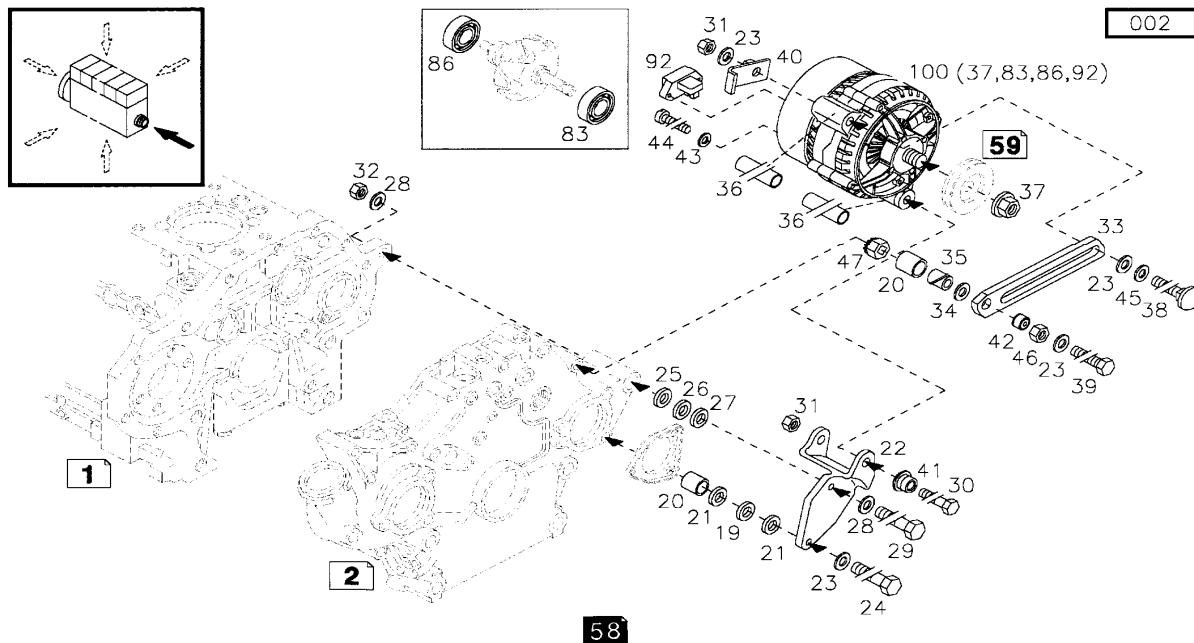


Generator
Generator
Generatrice
Generador

Referenznr.:

0150 -44- 0510 2106

002 ©

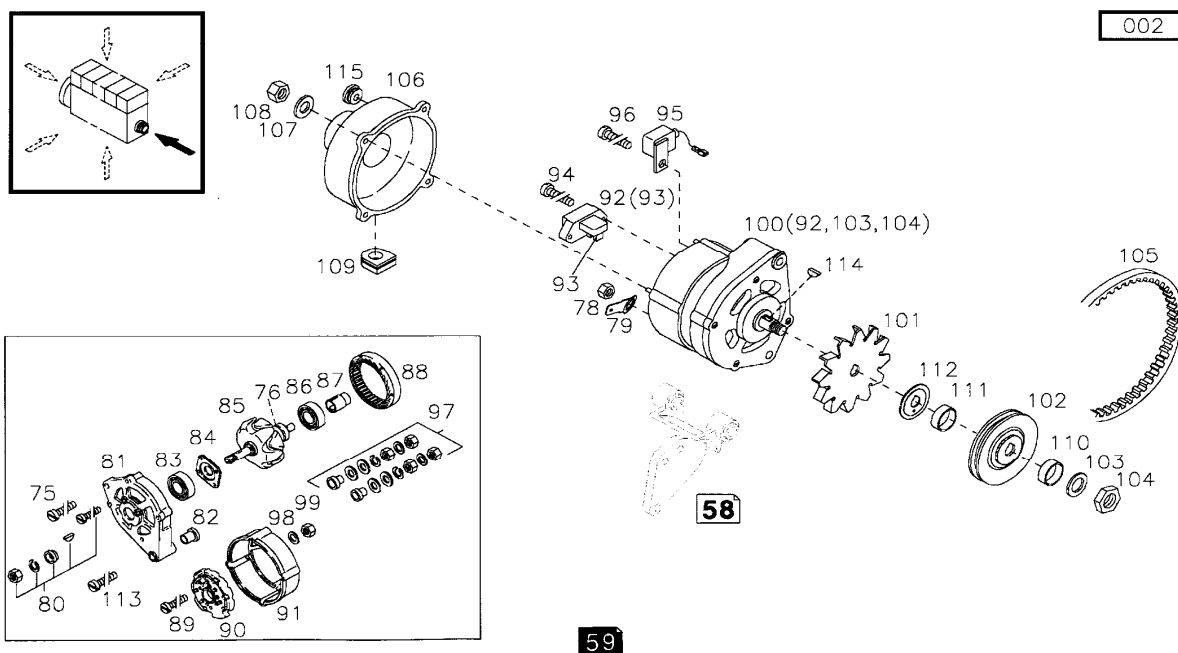


Generator
Generator
Generatrice
Generador

Referenznr.:

0150 -44- 0510 2104

002 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

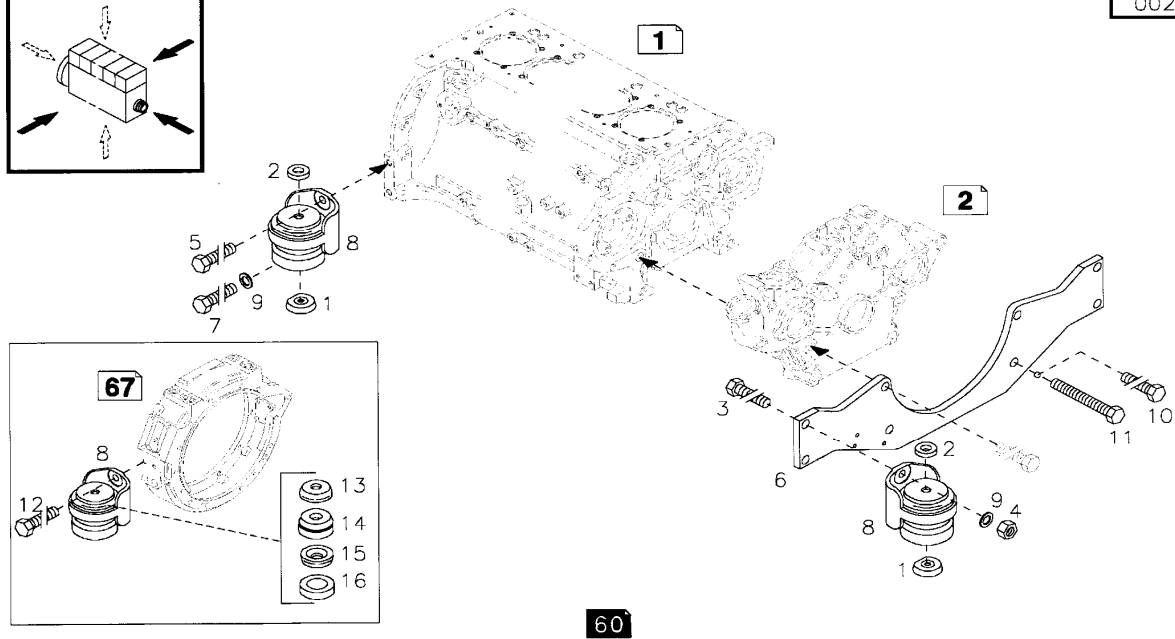
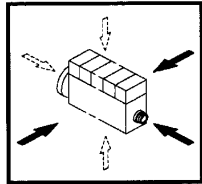


Motoraufhängung
Engine mounting
Suspension moteur
Anclaje del motor

Referenznr.:

0150 -46- 0510 2108

002 ©

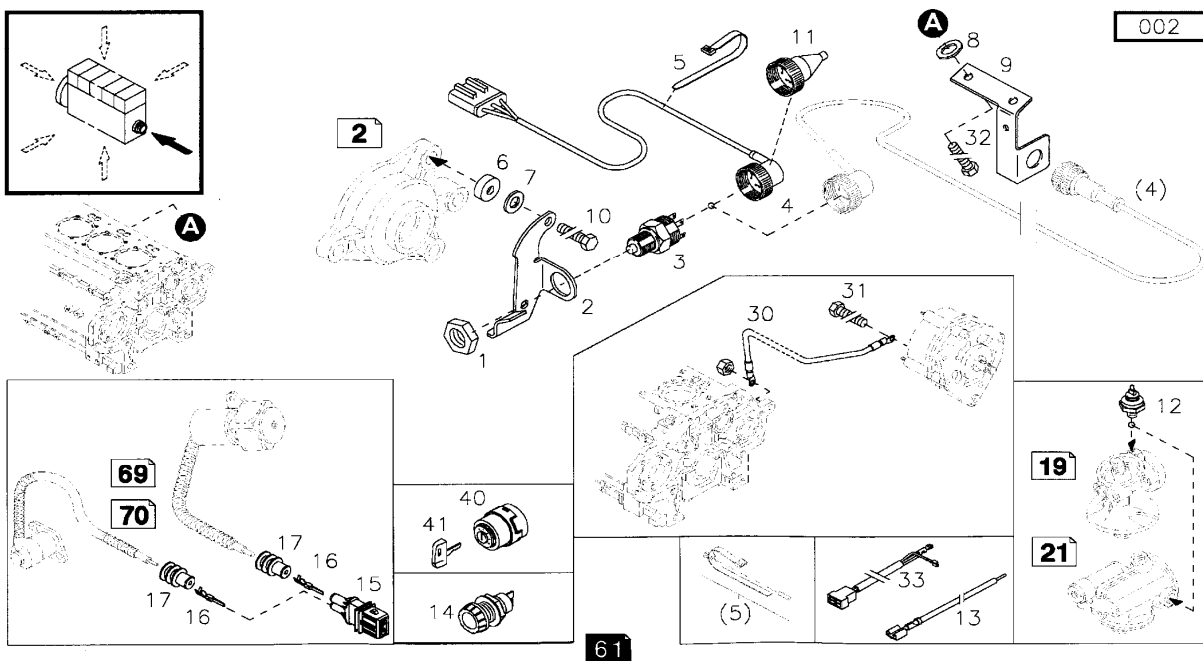
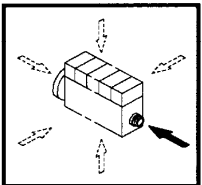


Elektr.Ausrüstung
Electrical equipment
Equipement électrique
Equipo electrico

Referenznr.:

0150 -48- 0510 2109

002 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

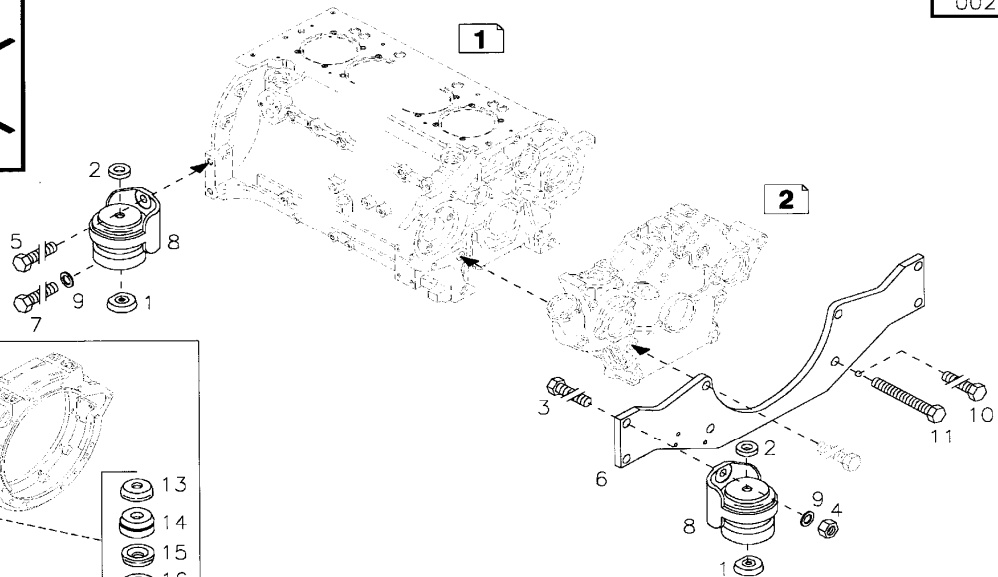
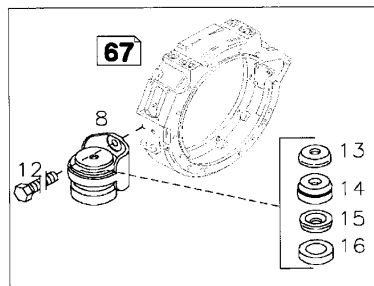
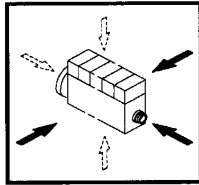


Motoraufhängung
Engine mounting
Suspension moteur
Anclaje del motor

Referenznr.:

0150 -46- 0510 2108

002 ©



60

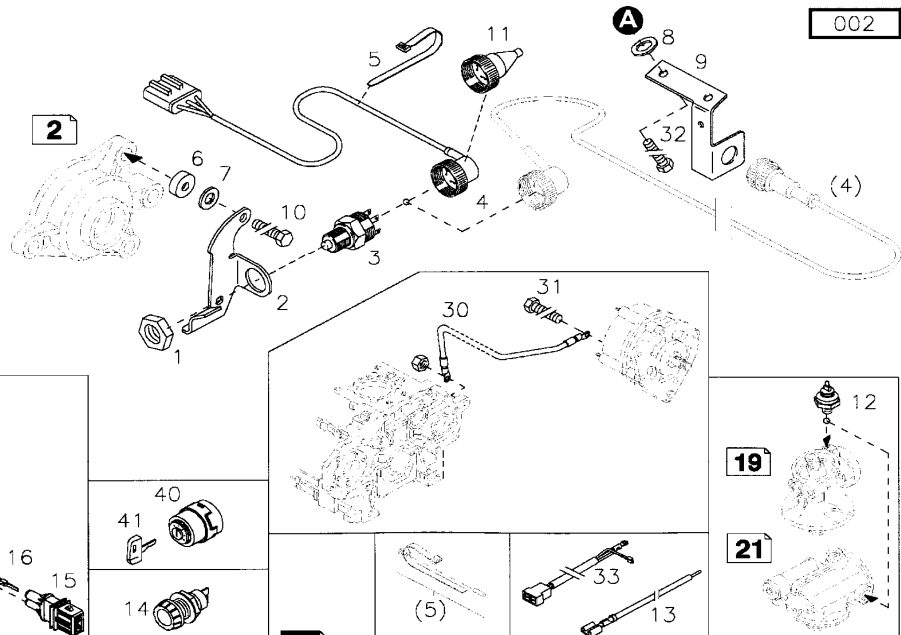
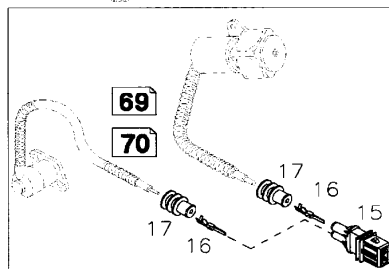
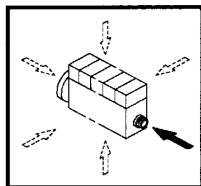


Elektr.Ausrüstung
Electrical equipment
Equipement électrique
Equipo electrico

Referenznr.:

0150 -48- 0510 2109

002 ©



61

AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

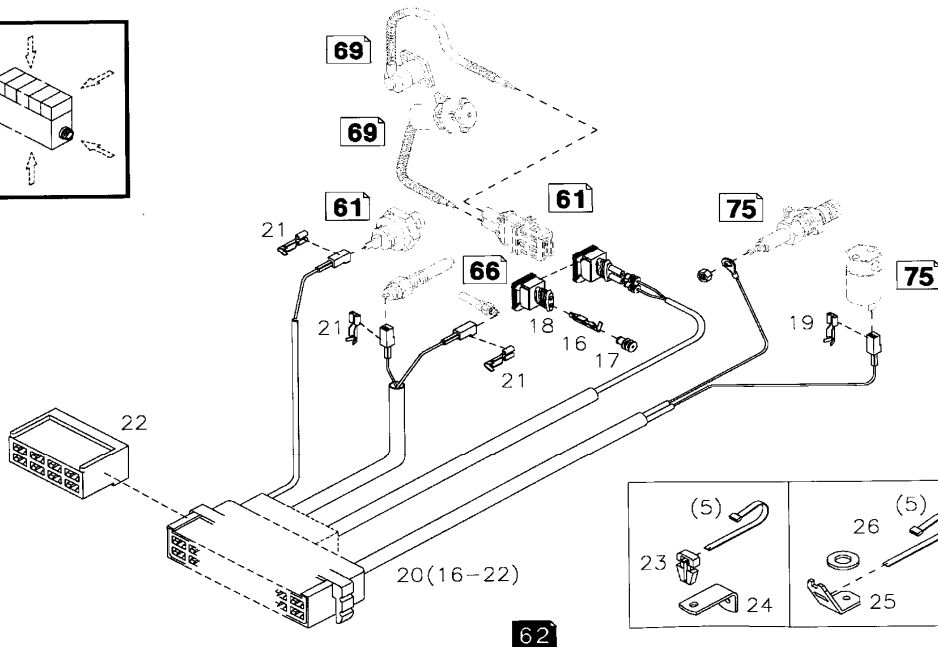
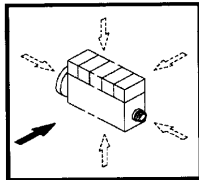


Kabelbaum
Cable harness
Faisceau de cables
Hoz de cables

Referenznr.:

0150 -48- 0510 2218

000 ©

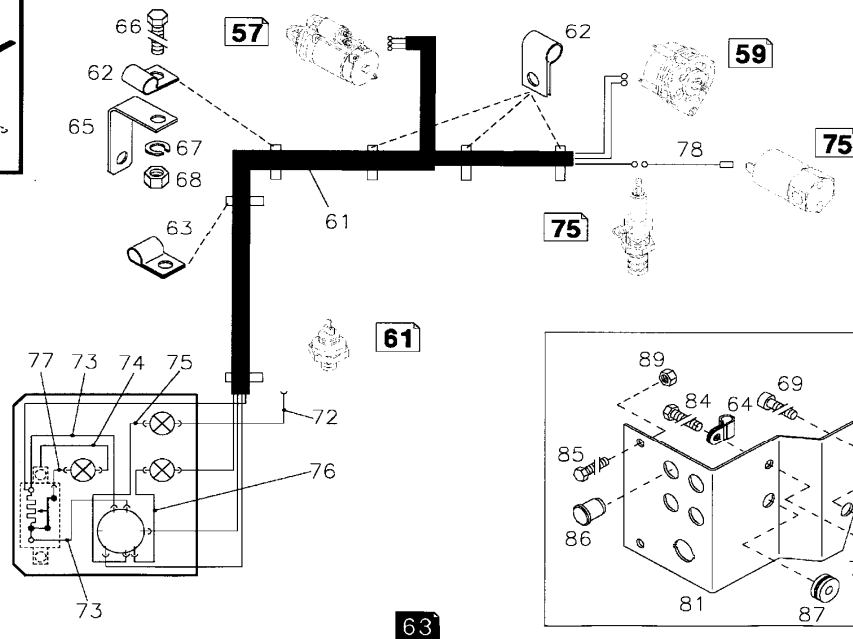
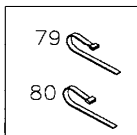
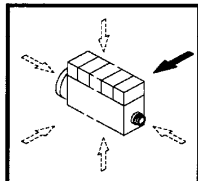


Elektr.Ausrüstung
Electrical equipment
Equiptement electrique
Equipo electrico

Referenznr.:

0150 -48- 0510 2229

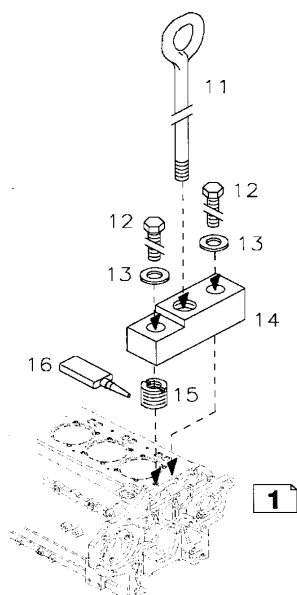
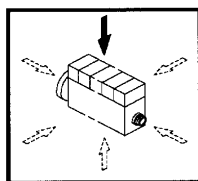
000 ©



**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLY**DATE: 26-11-09
REV: THIRTY
EIGHTWerkzeug
Tool
Outill
Herramienta

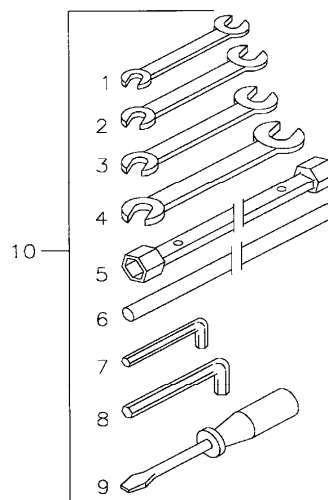
Referenznr.:

0150 -49- 0510 2090



64

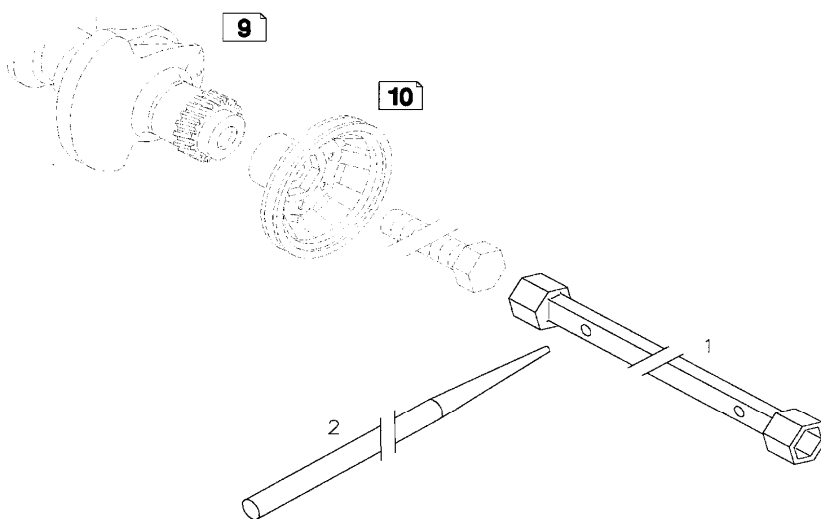
002 ©

Durchdrehvorrichtung
Turn-over gear
Vireur
Virador

Referenznr.:

0150 -50- 0510 2112

002 ©



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AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

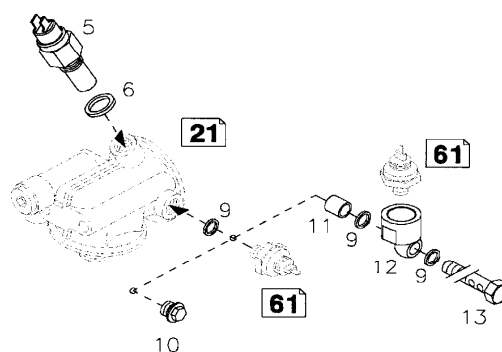
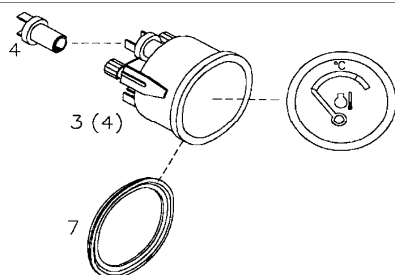
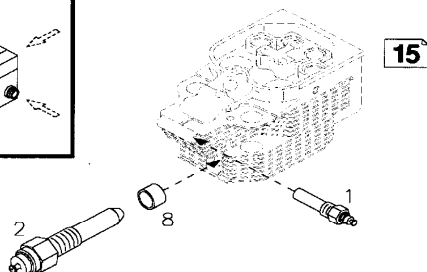
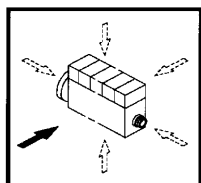


Meßgeräte
Test units
Instruments de mesure
Aparatos medición

Referenznr.:

0150 -51- 0510 2113

002 ©

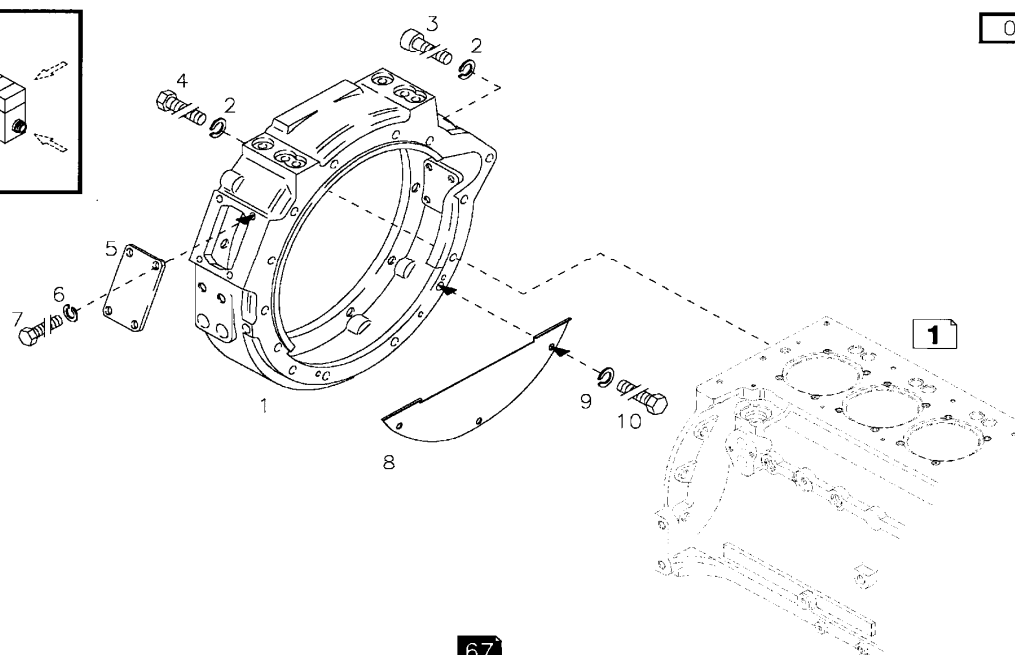
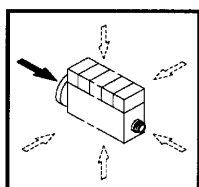


Anschlußgehäuse
Connection housing
Carter adaptation
Carcasa de conexión

Referenznr.:

0150 -52- 0510 2114

002 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

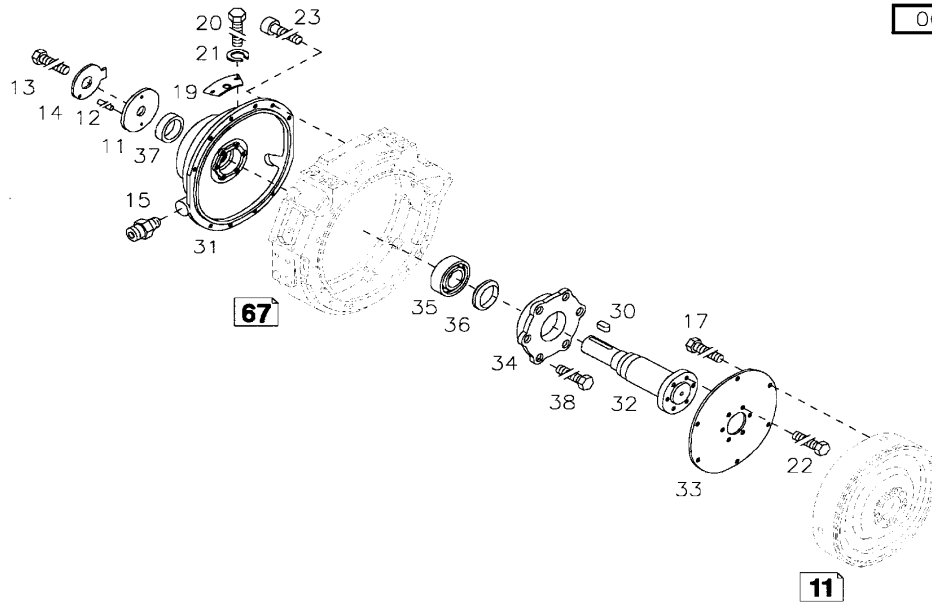
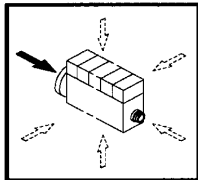


Anflanschaußenlager
Outboard bearing
Palier bride ext
Cajin. brida exterior

Referenznr.:

0150 -52- 0510 2230

000 ©

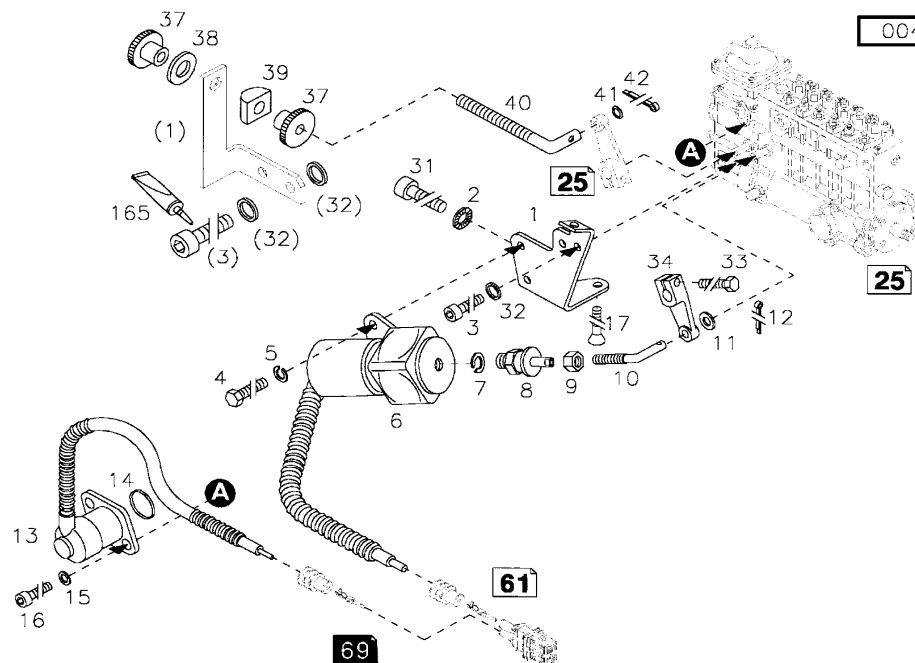
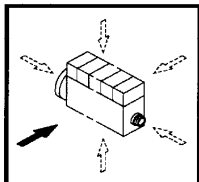


Abstellmagnet
Magnet / Solenoid
Aimant
Electroiman

Referenznr.:

0150 -56- 0510 2115

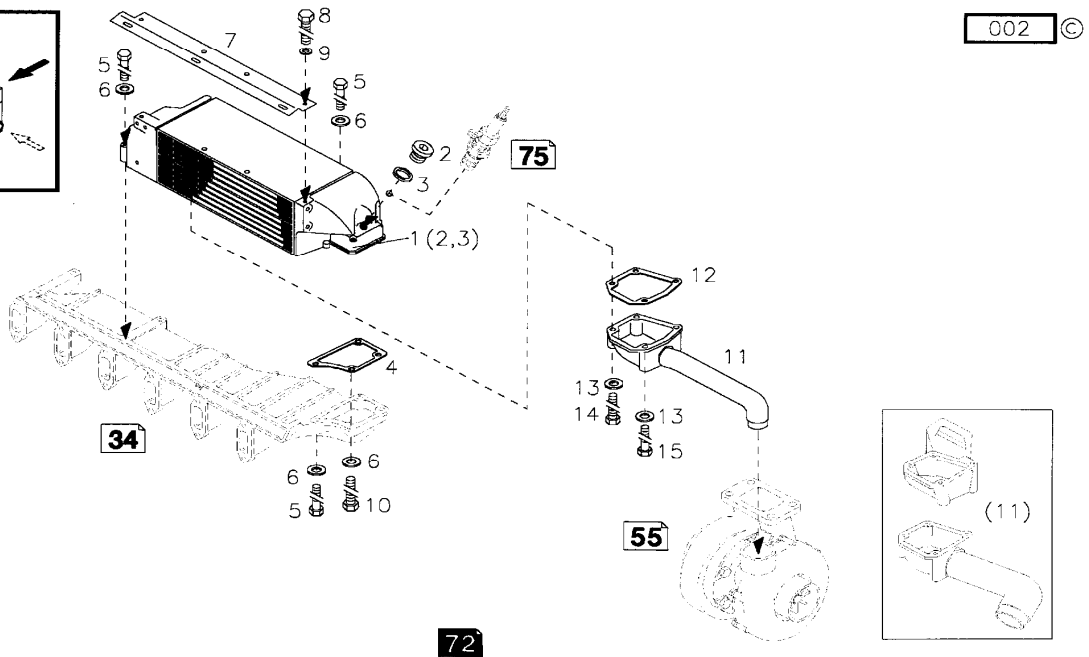
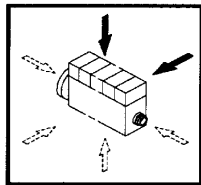
004 ©



**AARD MINING EQUIPMENT
AARD 5.5 LP LOAD HAUL DUMPER
DEUTZ 914 ENGINE ASSEMBLY**DATE: 26-11-09
REV: THIRTY
EIGHTLadeluftkühler
Charge air cooler
Refroidisseur d'air de suralimentation
Enfriador de aire de sobrealimentación

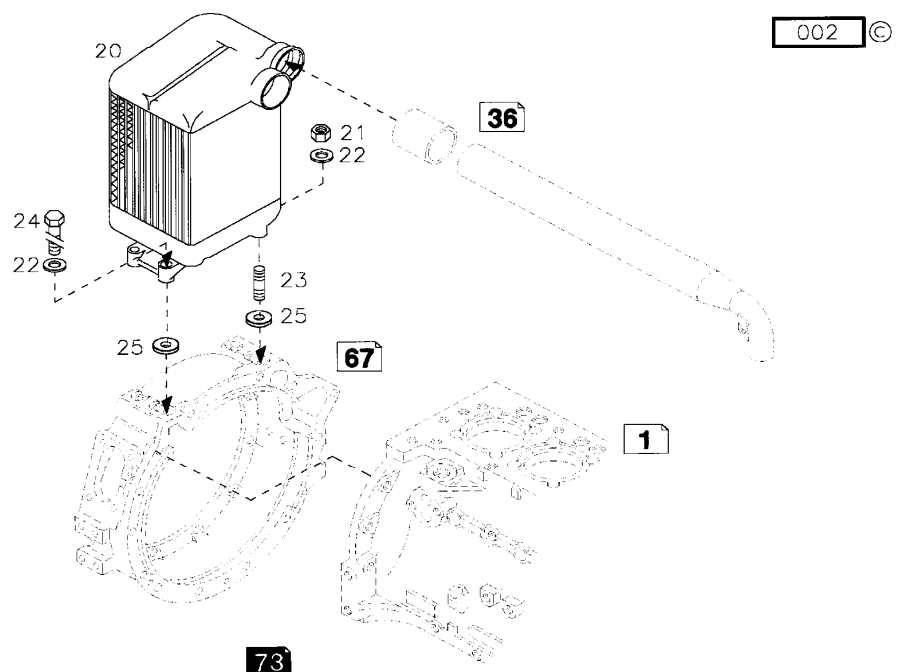
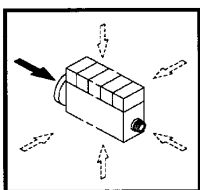
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0150 -58- 0510 2118

Ladeluftkühler
Charge air cooler
Refroidisseur d'air de suralimentation
Enfriador de aire de sobrealimentación

Referenznr.: _____

0150 -58- 0510 2128



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

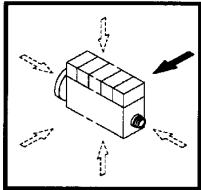
DATE: 26-11-09
REV: THIRTY
EIGHT



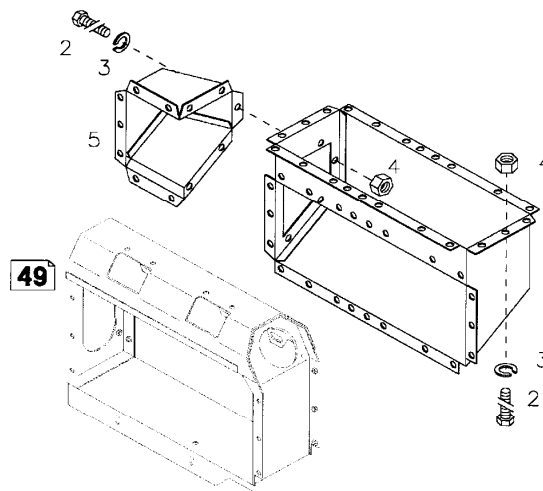
Abluftkrümmer
Air outlet elbow
Coude air sortie
Codo aire de salida

Referenznr.:

0150 -61- 0510 2231



000 ©



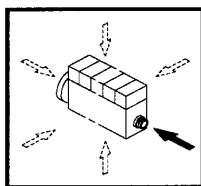
74



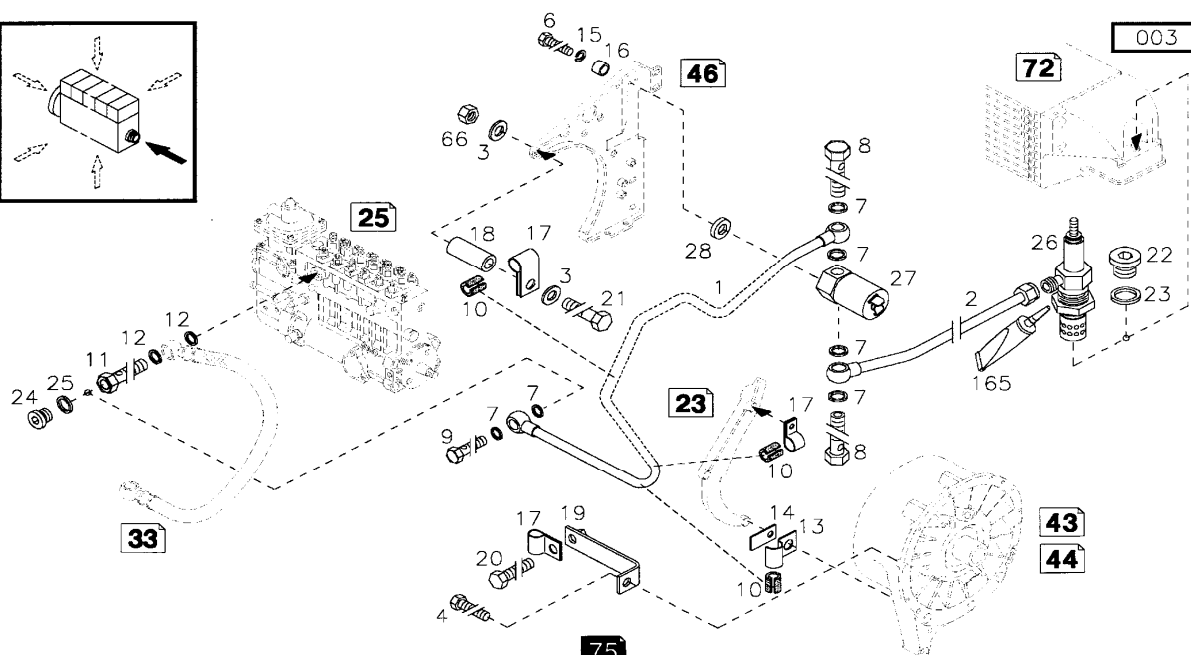
Starthilfe
Starting aid
Artification au demarrage
Ayuda de arranque

Referenznr.:

0150 -63- 0510 2121



003 ©



75

AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

DATE: 26-11-09
REV: THIRTY
EIGHT

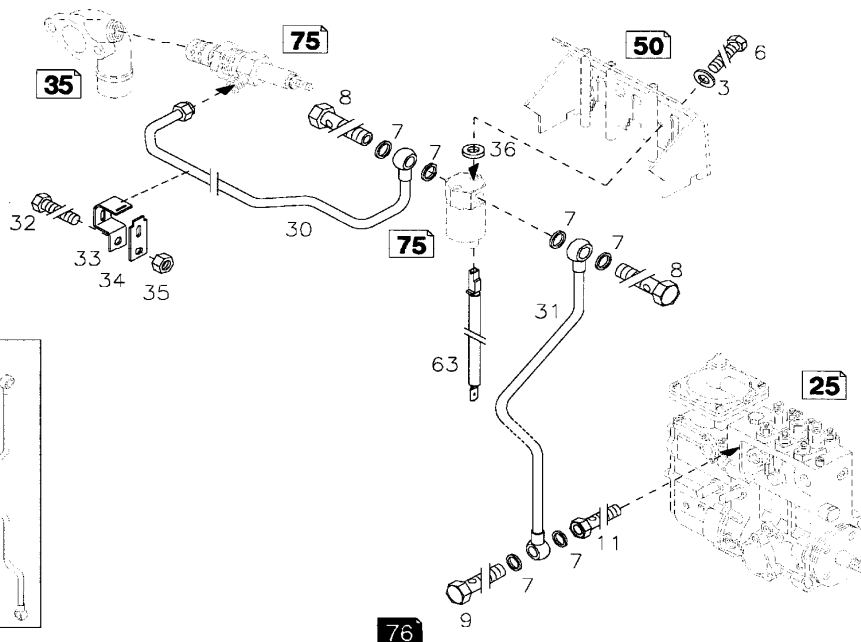
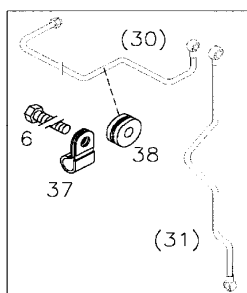
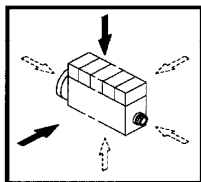


Starthilfe
Starting aid
Artification au démarrage
Ayuda de arranque

Referenznr.: _____

0150 -63- 0510 2120

003 ©

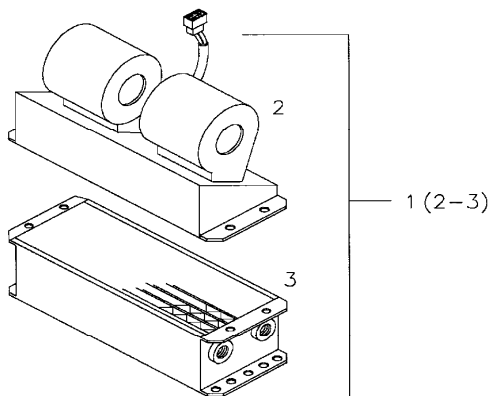


Heizgerät
Heating unit
Appareil de chauffage
Aparato de calefacción

Referenznr.: _____

0150 -75- 0510 2232

000 ©



AARD MINING EQUIPMENT

AARD 5.5 LP LOAD HAUL DUMPER

DEUTZ 914 ENGINE ASSEMBLY

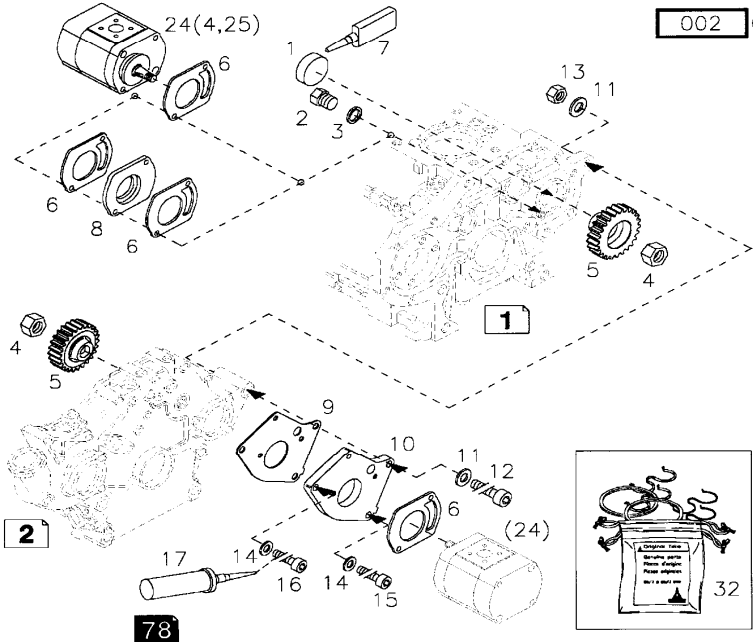
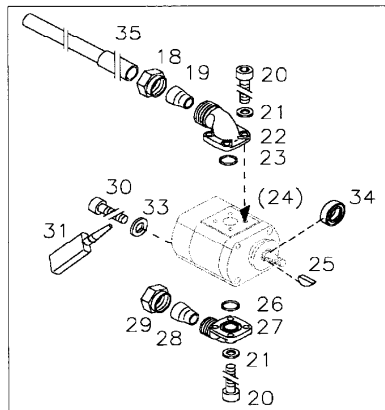
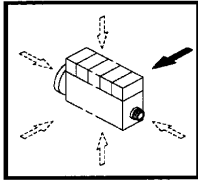
DATE: 26-11-09
REV: THIRTY
EIGHT



Hydraulikpumpe
Hydraulic pump
Pompe hydraulique
Bomba hidraulica

Referenznr.:

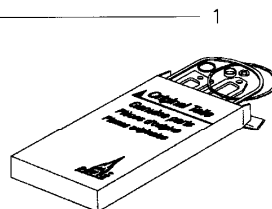
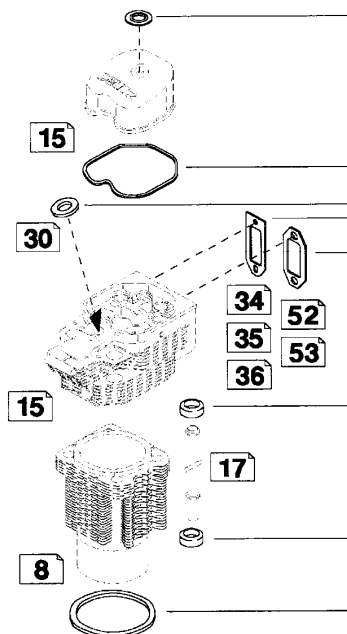
0150 -83- 0510 2123



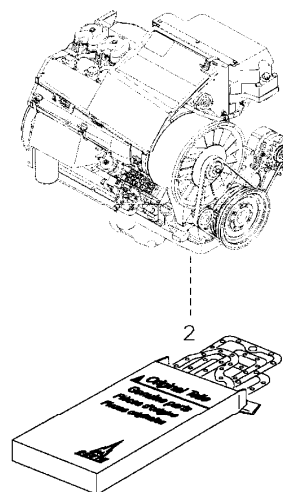
Dichtungssatz
Gasket set
Jeu de joints
Juego de juntas

Referenznr.:

0150 -90- 0510 2124



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