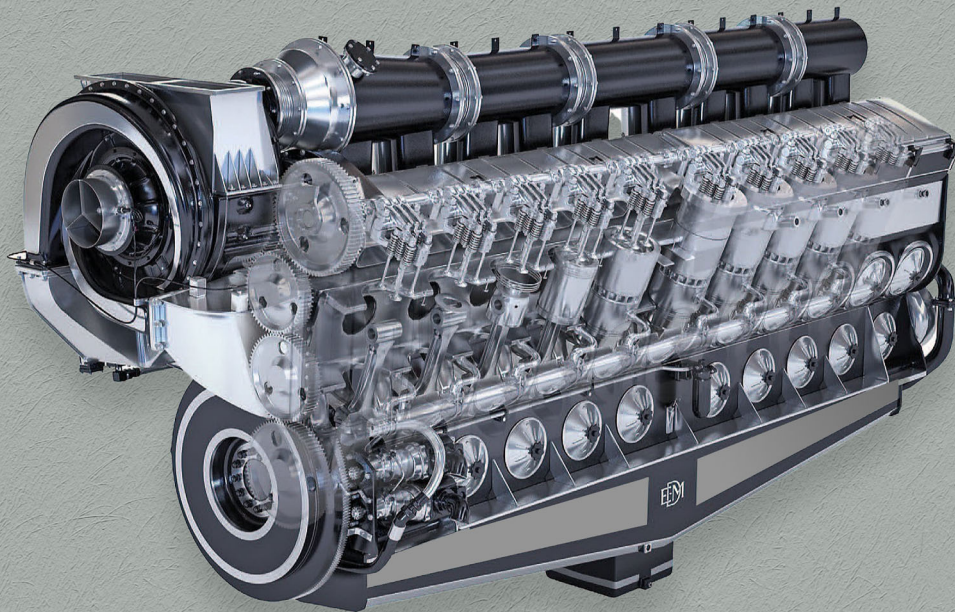
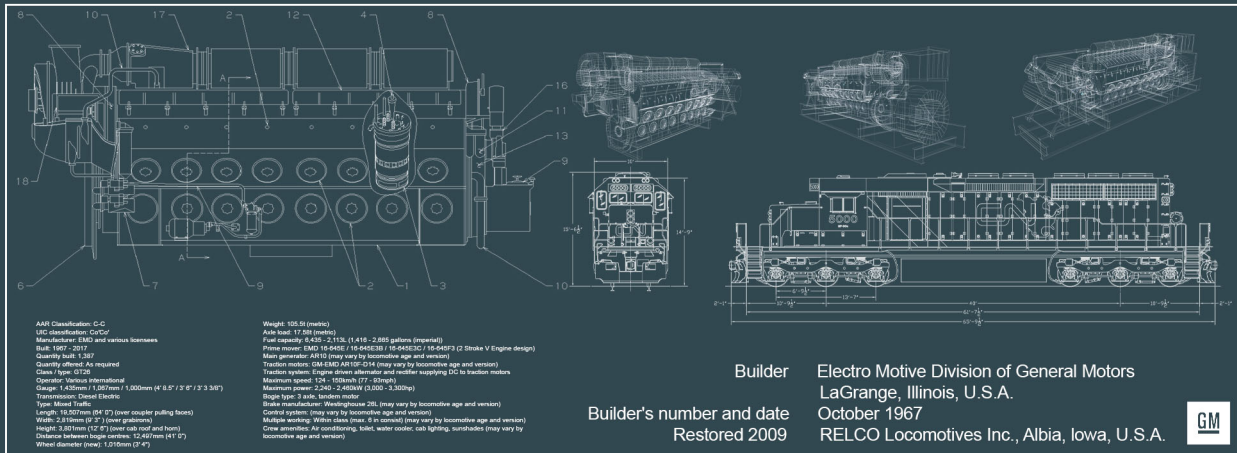


EMD DIESEL ENGINE SPARE PARTS



HALTIC ENDUSTRY CO.

WABCO



Gardner
Denver



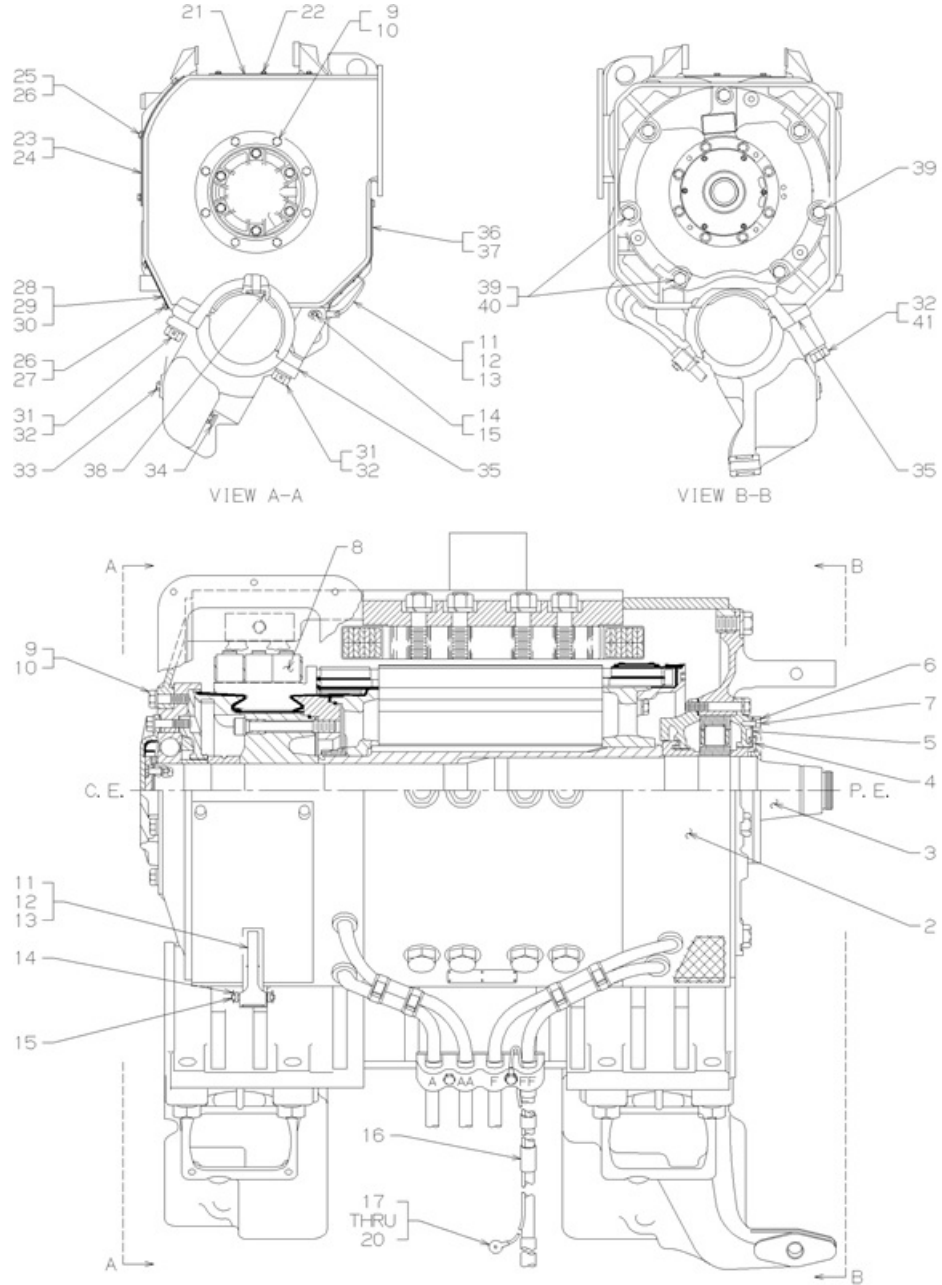


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EMD D78- D77 TRACTION MOTOR SPARE PARTS

**EMD PART NUMBER
40005625**

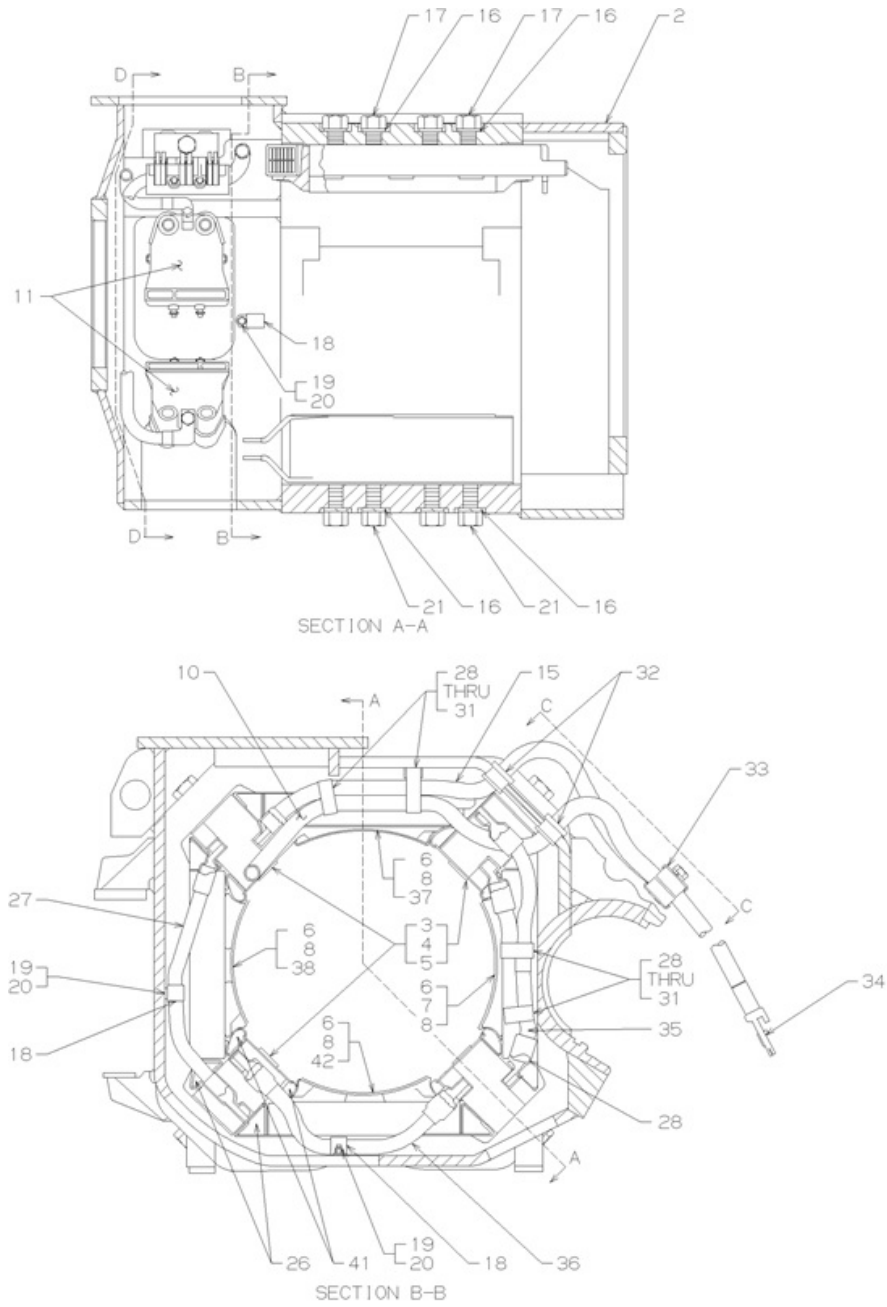




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D78 TRACTION MOTOR STATOR





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	Part Number	QTY	Description
-1	40005625	1	MOTOR ASSEMBLY .. Traction-D78-Shippingassembly (Pinionnotincluded)
-2	8283810	1	STATOR ASSEMBLY .. Traction motor
-3	9554744	1	ARMATURE AND BEARING ASSEMBLY .. Traction motor
-4	8499804	1	SLINGER .. Grease-Pinionend
-5	8417569	1	PLATE .. Partition-Pinionend
-6	8417565	1	SEAL .. Steel-Outer-Pinionend
-7	8277388	6	SCREW .. Socketcap3/8-16x3/4-Torqueto30-35ft./lbs.
-8	40047197	12	BRUSH .. Carbon - Traction motor
-9	271613	8	BOLT .. Hexhead3/4-10x2-1/2
-10	8133335	8	WASHER .. Lock 3/4
-11	8209519	1	LATCH ASSEMBLY .. Traction motor commutator upper cover
-12	8300016	1	LATCH .. Cover
-13	8300017	2	LINK .. Latchtoframe
-14	108630	2	PIN .. Cotter-1/8
-15	8300057	1	PIN .. Special-3/8 - Link to a frame
-16	8352037	3	TUBING .. Heat shrink - 3-inch length
-17	8351902	1	CABLE ASSEMBLY .. Stator - Traction motor
-18	9326091	AR	CABLE .. AWG8 -IIE - Poly olefin - Gray - 500 feet (Approx 0.58 inches required)
-19	40015621	1	LUG .. Terminal - 5/8
-20	8140346	1	LUG .. Terminal - 1/2
-21	8117405	1	COVER .. Air inlet - Suspension side
-22	8137701	6	BOLT ASSEMBLY .. Hex head 3/8-16x5/8 - Air inlet cover mounting - Includes lock washer
-23	8204665	1	COVER ASSEMBLY .. Commutator - Large lower
-24	8400649	1	GASKET .. Cover - Felt
-25	179881	6	BOLT .. Hexhead 1/2-13x1
-26	103323	10	WASHER .. Lock 1/2
-27	179879	4	BOLT .. Hexhead 1/2-13x3/4



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-28	8300013	1	COVER ASSEMBLY .. Commutator - Smalllower
-29	8079571	1	COVER .. Commutator end - Lower
-30	8395503	1	GASKET .. Cover - Felt
-31	8242193	6	BOLT .. Drilled hex-head 1-3/8-6x3
-32	8495681	8	WASHER .. Special - Flat 2.125 O.D. x 1.430 I.D. x 0.354 inches thick
-33	8348620	2	PLUG .. Pipe-Drain - 1/2PT
-34	9333024	2	FILLER ASSEMBLY .. Oil
-35	8478477	4	SHIM .. Axle cap - 0.010
-36	8204661	1	COVER ASSEMBLY .. Traction motor commutator end - Upper
-37	8400561	1	GASKET .. Cover - Felt
-38	9543732	4	PAD .. 1/2x1/2x3/8
-39	8035496	7	BOLT .. Hexhead 1-8x2
-40	8137697	6	WASHER .. Lock 1 inch
-41	9095753	2	BOLT .. Drilled hex-head 1-3/8x6 - Support bearing cap mounting - Pinion end - Lower
-41	9572880	2	BOLT .. Drilled hex-head 1-3/8x7-1/8 - Support bearing cap mounting - Pinion end - Lower (optional for service)
-42	40056595	AR	COMPOUND .. Sealing - 1 carton containing 270 feet

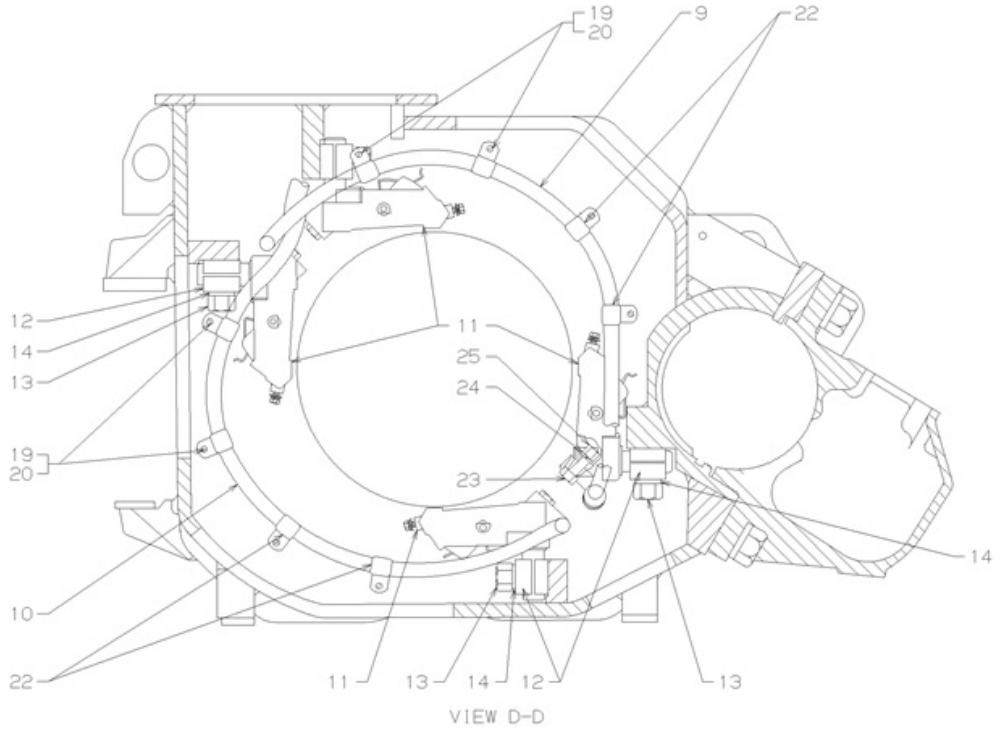
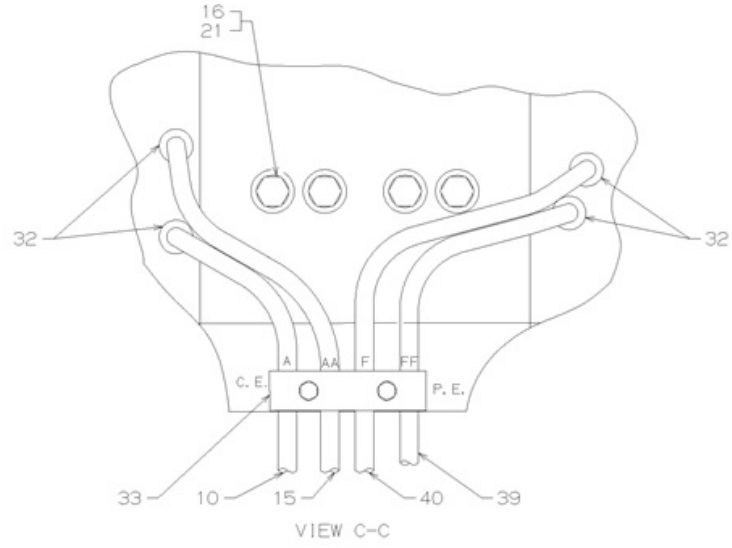
D78 TRACTION MOTOR STATOR

	Part Number	QTY	Description
-1	8283810	1	STATOR ASSEMBLY .. Traction motor - Includes narrow window support bearing caps, axle shield, and commutator covers
-2	8283811	1	FRAME ASSEMBLY .. Traction motor stator - Includes narrow window support bearing caps
-3	8248937	4	COIL ASSEMBLY .. Interpole - Utex No. 8255719



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-4	8206527	AR	SHIM .. Interpole coil - 0.029
-5	9563194	8	WASHER .. Insulating
-6	8208116	4	SHIELD .. Mainpole
-7	8248968	1	COIL ASSEMBLY .. Main field - No. 4 - Axle side - Utex No. 8255717
-8	8102831	4	POLEASSEMBLY .. Main - Nos. 1, 2, 3, and 4 coils
-9	8355727	1	CABLE ASSEMBLY .. Brush holder cross-connection - Replaces 9565454
-10	8355728	1	CABLE ASSEMBLY .. "A" and brush holder connector
-11	8417729	4	BRUSH HOLDER ASSEMBLY .. Traction motor
-12	8496443	4	BLOCK .. Brush holder - Traction motor - Outer
-13	271661	4	BOLT .. Hexhead 7/8-9x3-1/4
-14	8137717	4	WASHER ..Lock7/8
-15	8141062	1	CABLE ASSEMBLY .. "AA" - 87 inches long
-16	8160907	28	WASHER .. Lock1 - 1/8
-17	220089	12	NUT .. Hex 1-1/8-7
-18	8355745	2	CLAMP .. Insulated 1-1/16
-19	8035145	10	NUT .. Lock 5/16-18
20	120393	10	WASHER .. Flat 5/16
-21	272565	16	BOLT .. Hexhead 1-1/8-7x3-3/4 - Interpole coil mounting
22	9549132	8	CLAMP .. Insulated 7/8
23	180181	4	BOLT .. Hexhead 1/2-13x2
24	8137718	4	WASHER .. Lock 1/2
25	120378	4	NUT .. Hex 1/2-13

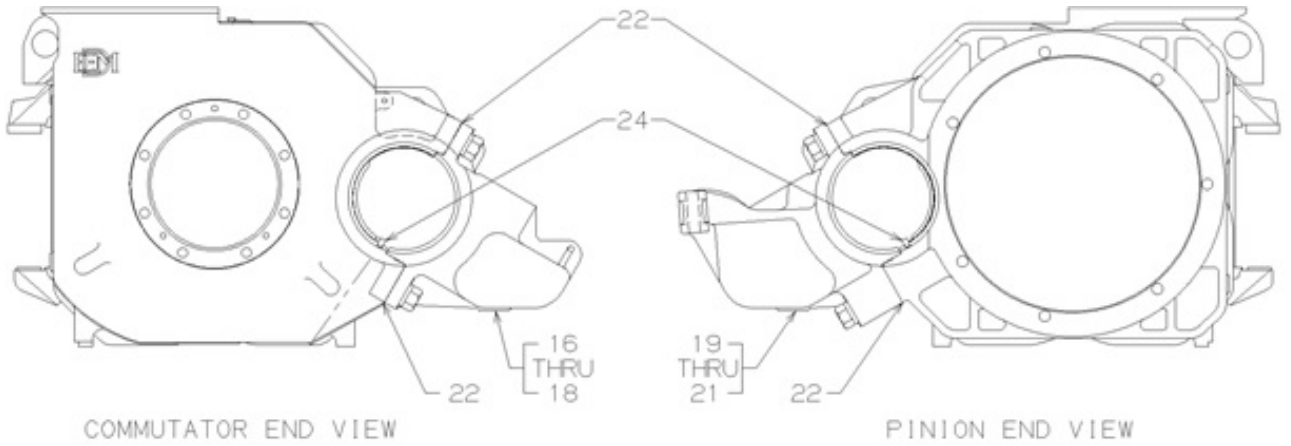
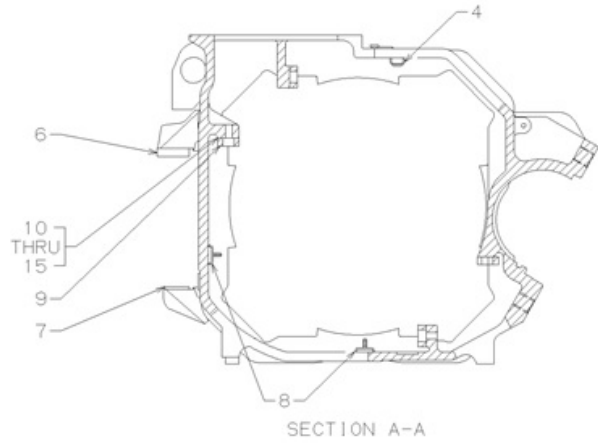
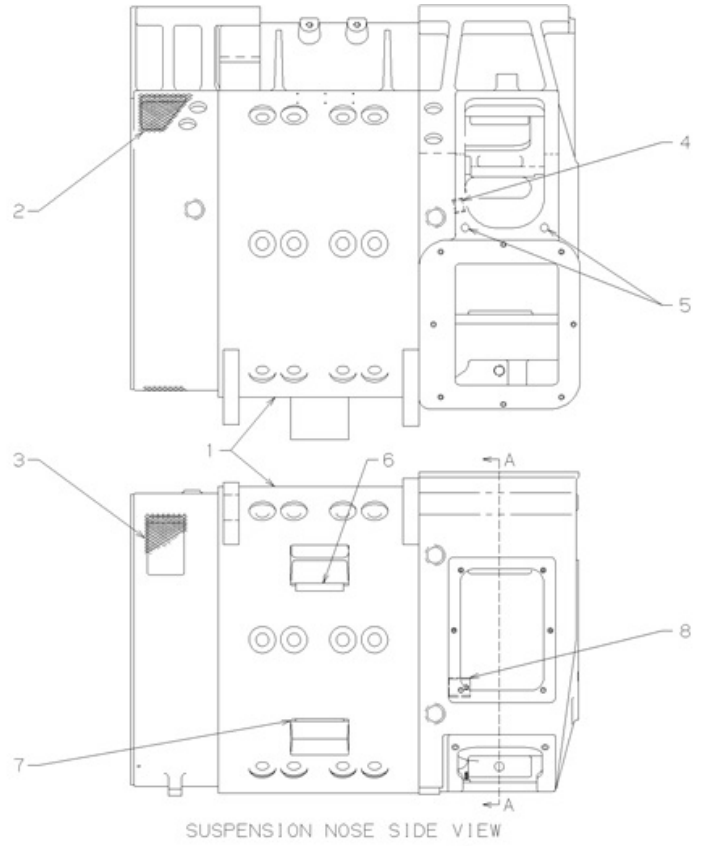




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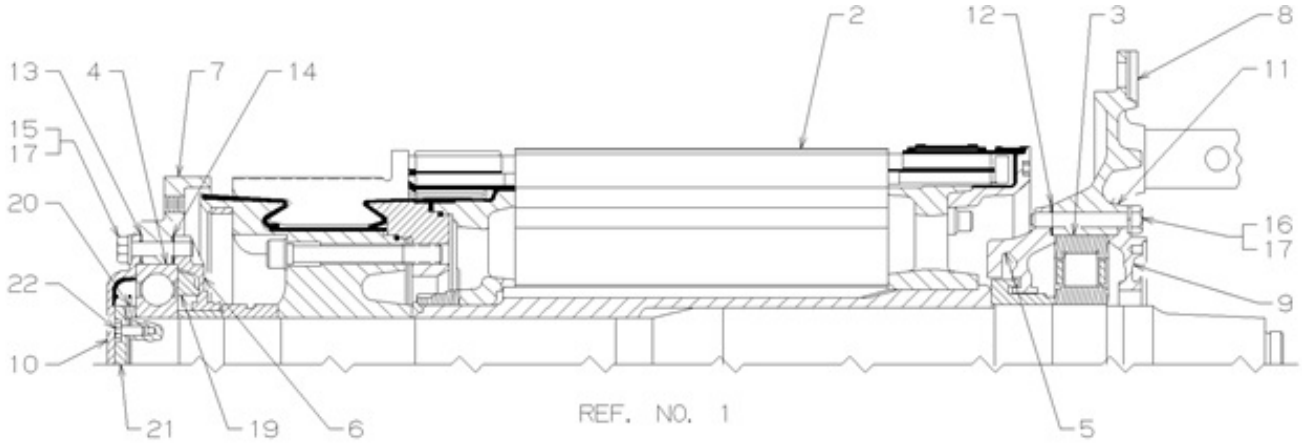
	Part Number	QTY	Description
-26	8276861	8	BAFFLE ASSEMBLY .. Outer - Air - Aluminum
-27	8355704	1	CABLE ASSEMBLY .. Interpole coil - No. 1 to No. 2 - 18 inches
-28	8395904	AR	TAPE .. Adhesive - Glass - 60 yards (Approx 0.77 feet required)
-29	9531800	4	STRAP .. Traction motor lead - Stainless steel
-30	9531799	4	SEAL .. Lead cable strap
-31	8351344	4	INSULATION .. Webbing - Lead strap
-32	8206883	4	GROMMET .. Cable - Cables "A", "AA", "F", and "FF"
-33	40016007	1	KIT .. Cable cleat
-34	8109922	4	CONNECTOR .. Clasp
-35	9565451	1	CABLE ASSEMBLY .. Interpole coil - No. 3 to No. 4 - 17 inches
-36	8351147	1	CABLE ASSEMBLY .. Interpole coil - No. 1 to No.4 - 17 inches
-37	8248967	1	COIL ASSEMBLY .. Main field - No.3 - Top - Utex No. 8255716
-38	8248966	1	COIL ASSEMBLY .. Main field - No.2 - Suspension side - Utex No. 8255715
-39	8141064	1	CABLE ASSEMBLY .. Lead - "FF" - 77 inches long
-40	8141063	1	CABLE ASSEMBLY .. Lead - "F" - 82 inches long
-41	8276860	8	BAFFLE ASSEMBLY .. Inner - Air - Aluminum
-42	8248965	1	COIL ASSEMBLY .. Main field - No. 1- Bottom - Utex No. 8255714
-43	8329770	1	KIT .. Traction motor stator rewind - Includes Ref. Nos. 3, 6, 7, 37, 38, and 42 in quantities indicated (not shown)

TRACTION MOTOR STATOR - FRAME



	Part Number	QTY	Description
-1	8283811	1	FRAME ASSEMBLY .. Traction motor stator
-2	8212162	1	SCREEN .. Top - Axle side - Pinion end
-3	8212161	1	SCREEN .. Top - Suspension side - Pinion end
-4	8351145	1	SUPPORT .. Cable - Top - Welded
-5	8300003	2	PIN .. Button - 3/8x1-3/8 - Cover retaining
-6	8351502	1	PLATE .. Wear - Traction motor suspension - Upper - Maganese
-7	8436596	1	PLATE .. Wear - Traction motor suspension - Lower - Maganese
-8	9319949	2	PLATE ASSEMBLY .. Stud - Cable clamp - Welded
-9	8300157	4	BLOCK .. Brush holder - Inner
-10	8032452	AR	SHIM .. Brush holder block - 0.015 inch thick
-11	8109178	AR	SHIM .. Brush holder block - 0.032 inch thick
-12	8109179	AR	SHIM .. Brush holder block - 0.058 inch thick
-13	8109180	AR	SHIM .. Brush holder block - 0.003 inch thick
-14	8109181	AR	SHIM .. Brush holder block - 0.007 inch thick
-15	8109182	AR	SHIM .. Brush holder block - 0.010 inch thick
-16	8283987	1	CAP ASSEMBLY .. Axle - Commutator end - Support bearing - Replaces 8276832
-17	9333024	1	FILLER ASSEMBLY .. Oil
-18	8348620	1	PLUG .. Pipe - Drain - 1/2 MPT
-19	9534978	1	CAP ASSEMBLY .. Axle - Pinion end - Support bearing - Replaces 9520927
-20	9333024	1	FILLER ASSEMBLY .. Oil
-21	8348620	1	PLUG .. Pipe-Drain-1/2MPT Support bearing caps are semi-finished. All caps require line boring on application. Pinion caps also require drilling a 1-1/16 inch diameter hole and machining to a 4-inch diameter dimension of the gear case arm.
-22	8478477	4	SHIM .. Axlecap - 0.010
-23	8110556	9	STUD .. 5/16-18x3/4 - Cable clamp - Welded - (not shown)
-24	8166258	2	KEY .. Traction motor support bearing - 1/2x1/2x5-5/16

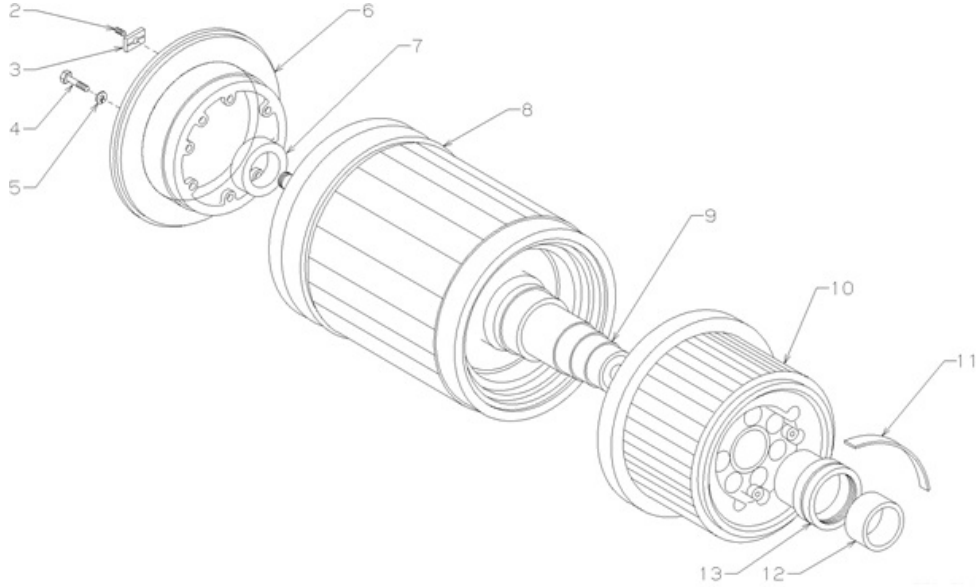
TRACTION MOTOR ARMATURE AND BEARING



	Part Number	QTY	Description
-1	9554744	1	ARMATURE AND BEARING ASSEMBLY .. Traction motor - D78
-2	9554680	1	ARMATURE ASSEMBLY .. Traction motor - D78 - Utex 9550679
-3	40080001	1	BEARING .. Roller - P.E.
-4	40087004	1	BEARING .. Ball - Deep groove - C.E.
-5	9094445	1	CAP .. Bearing cover - Pinion end
-6	9083296	1	CAP .. Bearing cover - Commutator end
-7	8408477	1	HOUSING ASSEMBLY .. Commutator end - Bearing
-8	8300137	1	HOUSING ASSEMBLY .. Pinion end - Bearing
-9	9094444	1	COVER ASSEMBLY .. Bearing - Pinion end
-10	8496324	1	COVER ASSEMBLY .. Bearing - Commutator end
-11	9571085	1	GASKET .. Cover - Pinion end
-12	9571079	1	GASKET .. Cap - Pinion end
-13	9571082	1	GASKET .. Cover - Commutator end
-14	9571083	1	GASKET .. Cap - Commutator end
-15	271566	6	BOLT .. Hexhead 5/8-11x3
-16	271571	8	BOLT .. Hexhead 5/8-11x4-1/4

-17	8133334	14	WASHER .. Lock 5/8
-18	8249820	AR	GREASE .. Bearing -114 pound drum (Approx 2 pounds required)
-19	8333591	1	INSERT .. Bearing - Antichurn
-20	40028670	1	SPACER .. Ballbearing
-21	8168504	1	RETAINER .. Bearing - Commutator end
-21A	8479431	1	PLATE .. Retainer (not shown)
-21B	181427	1	BOLT .. Hexhead 1/2-20x1 (not shown)
-22	9420945	6	BOLT .. Lock 7/16-20x1

TRACTION MOTOR ARMATURE

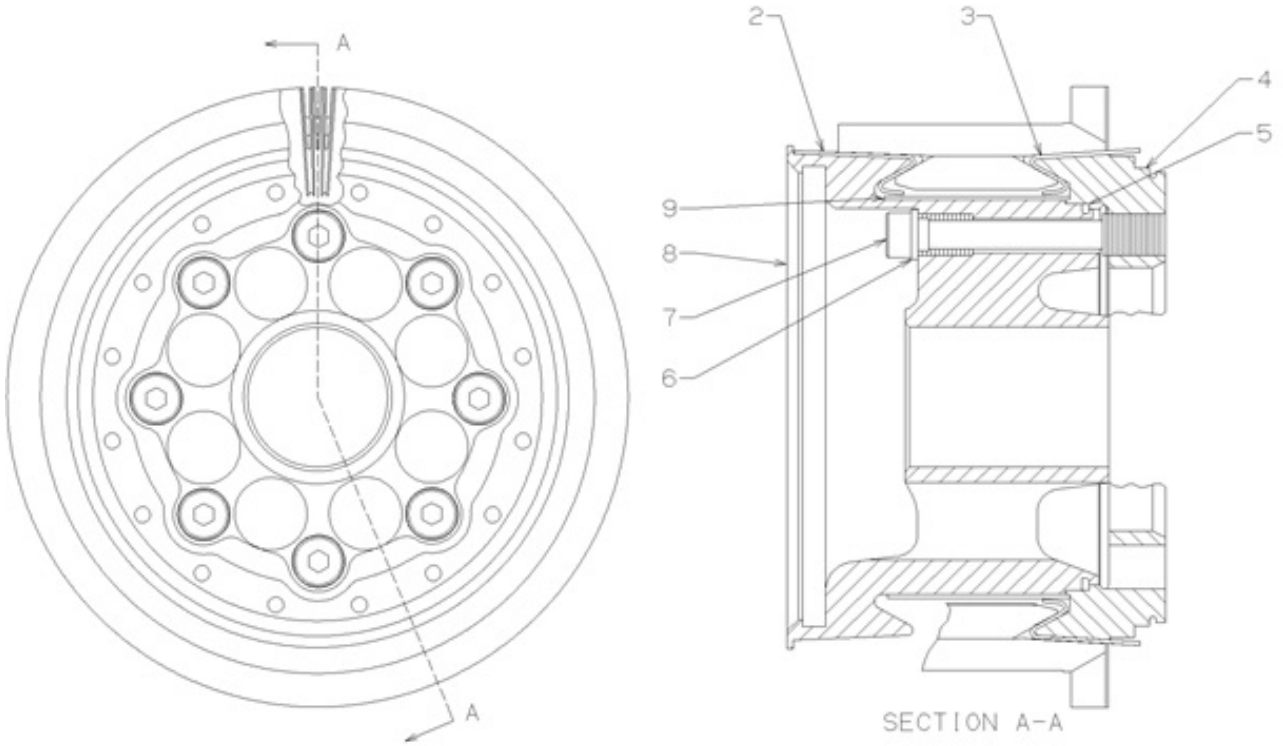




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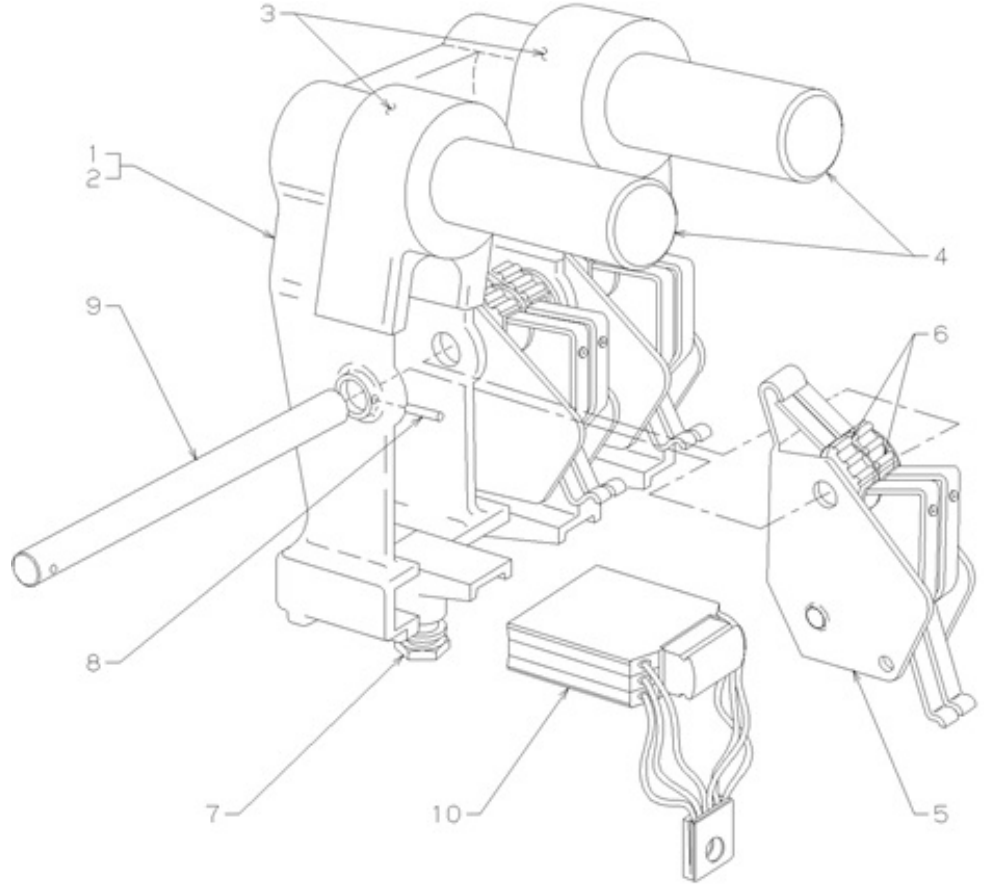
	Part Number	QTY	Description
-1	9554680	1	ARMATURE ASSEMBLY .. Traction motor - D78 - Utex 9550679
-2	115321	AR	SCREW .. Hex socket cup point 5/16-18x5/16 - Weight mounting to bell
-3	8300143	AR	WEIGHT .. Balance - Traction motor armature - Pinion end - Copper
-3	8306706	AR	WEIGHT .. Balance - Pinion end - Aluminum (Optional)
-4	271556	8	BOLT .. Hexhead 5/8-11x1-1/4 - End bell to coil support mounting
-5	8133334	8	WASHER .. Lock 5/8
-6	8300100	1	BELL .. End - Traction motor armature
-7	8499803	1	SEAL .. Inner - Pinion end
-8	8141081	1	CORE ASSEMBLY .. Armature - (For armature coreless the shaft, use 8141251)
-9	8307430	1	SHAFT .. Traction motor armature - Standard
-10	40034413	1	COMMUTATOR ASSEMBLY .. Traction motor armature
-11	9523246	AR	WEIGHT .. Balance - Commutator end
-11	9583247	AR	WEIGHT .. Balance - Commutator end
-11	9523248	AR	WEIGHT .. Balance - Commutator end
-11	9523249	AR	WEIGHT .. Balance - Commutator end
-12	8499802	1	SPACER .. Inner - Commutator end
-13	9083297	1	COLLAR .. Inner - Commutatorend
-14	8356910	1	SEAL .. Extruded - Commutator to armature - Round - 0.335 diameter x42-1/8 inches long (not shown)
-15	9552758	1	SEAL .. Extruded - Commutator to armature - Rectangle - 5/32 diameter x 42-1/2 inches long (not shown)
-16	8351140	1	KIT .. Armature rewind (not shown)

TRACTION MOTOR COMMUTATOR



	Part Number	QTY	Description
-1	40034413	1	COMMUTATOR ASSEMBLY .. Traction motor armature
-2	40032513	1	RINGASSEMBLY .. V-Front
-3	40032514	1	RINGASSEMBLY .. V-Rear
-4	8300061	1	RING .. V-Commutator - Rear
-5	8356910	1	SEAL .. Extruded - Commutator to armature - Rectangle - 5/32 diameter x 42-1/2 inches
-6	8353693	8	WASHER .. Special
-7	8300056	8	BOLT .. Hex socket head 7/8-9x7 - Commutator clamp
-8	8328940	1	SPIDER .. Commutator
-9	9567193	1	STRIP .. Insulation

TRACTION MOTOR BRUSH HOLDER



	Part Number	QTY	Description
-1	8417729	1	BRUSH HOLDER ASSEMBLY .. Traction motor
-2	8417687	1	BRUSH HOLDER .. Traction motor
-3	8417727	2	BOOT .. Rubber stud insulator
-4	8417728	2	STUD ASSEMBLY .. Insulator - Brush holder - Standard
-4	8427800	2	STUD ASSEMBLY .. Insulator - 0.002 oversize (Optional)
-5	8338116	3	CELL ASSEMBLY .. Brush spring
-6	8303075	6	SLIDE .. Finger
-7	8392987	2	BOLT ASSEMBLY .. Hexhead 5/16-18x3/4 - Brush terminal - Includes lock and plain washer
-8	142486	1	PIN .. Groove - 1/8x3/4 - Spindle retaining
-9	8296216	1	SPINDLE .. Rod - Brush holder cell



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-10	40047197	3	BRUSH .. Carbon - Traction motor It is not recommended to mix brands (manufacturers) of carbon brushes with in an assembly.
-11	REF	AR	COMPOUND .. Insulator boot - 6 ounce tube (8345495 not available from EMD - not shown)

THERE ARE A TOTAL OF 4 BRUSH HOLDER ASSEMBLIES PER STATOR ASSEMBLY.