prestolite®

SERVICE PARTS LIST

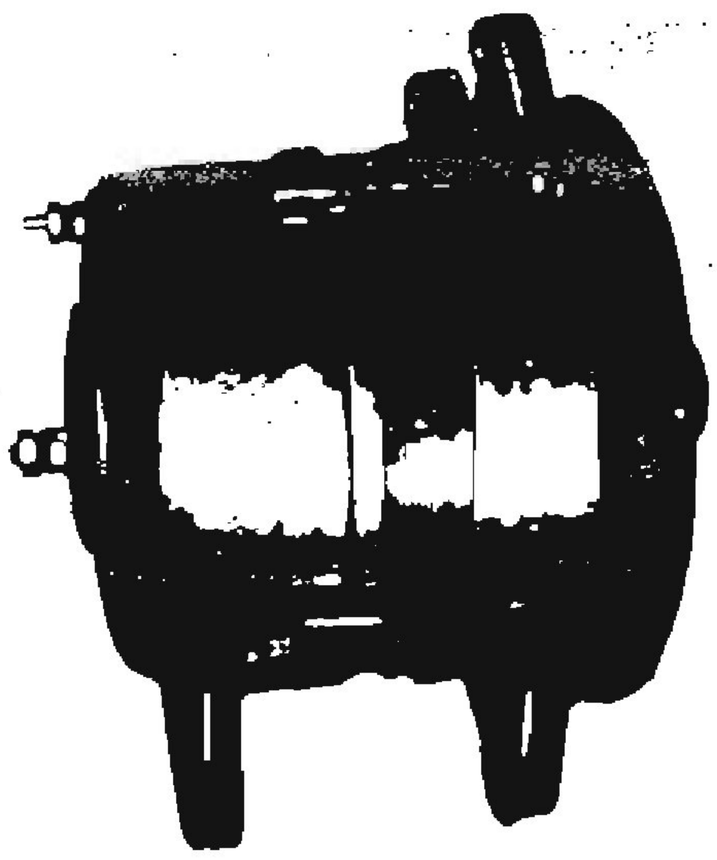
ALE-5001 TO 5120

ALTERNATOR

ISSUED: 2-13-75(Rev.)

ORIG.EQUIP.ALT. ENG. NUMBER		SERVICE ALTERNATOR ENG. NUMBER	SALES NUMBER	VOLTS-12 APPLICATION
ALE-5001	USE	ALE-5022	51-245	Trane
ALE-5001S	USE	ALE-5022	51-245	Service
ALE-5003S	USE	ALE-5022	51-245	Towmotor
ALE-5004	USE	ALE-5022	51-245	Willys
ALE-5004S	USE	ALE-5022	51-245	Service
ALE-5006	USE	ALE-5022	51-245	Towmotor
ALE-5006S	USE	ALE-5022	51-245	Service
ALE-5014	USE	ALE-5022	51-245	Service
ALE-5022		ALE-5022	51-245	Service
ALE-5101	USE	ALE-5101PS	51-46	J.I.Case
ALE-5101PS		ALE-5101PS	51-46	Service
ALE-5101S	USE	ALE-5120	51-248	Universal Alt.
ALE-5104PS-1		ALE-5104PS-1	51-54	Universal Alt.
ALE-5104S-1	USE	ALE-5120	51-248	Universal Alt.
ALE-5106	USE	ALE-5120	51-248	Service
ALE-5120		ALE-5120	51-248	Service

NOTE: SEE TABLE FOR ALTERNATOR BEING SERVICED WHEN PARTS ARE REQUIRED.



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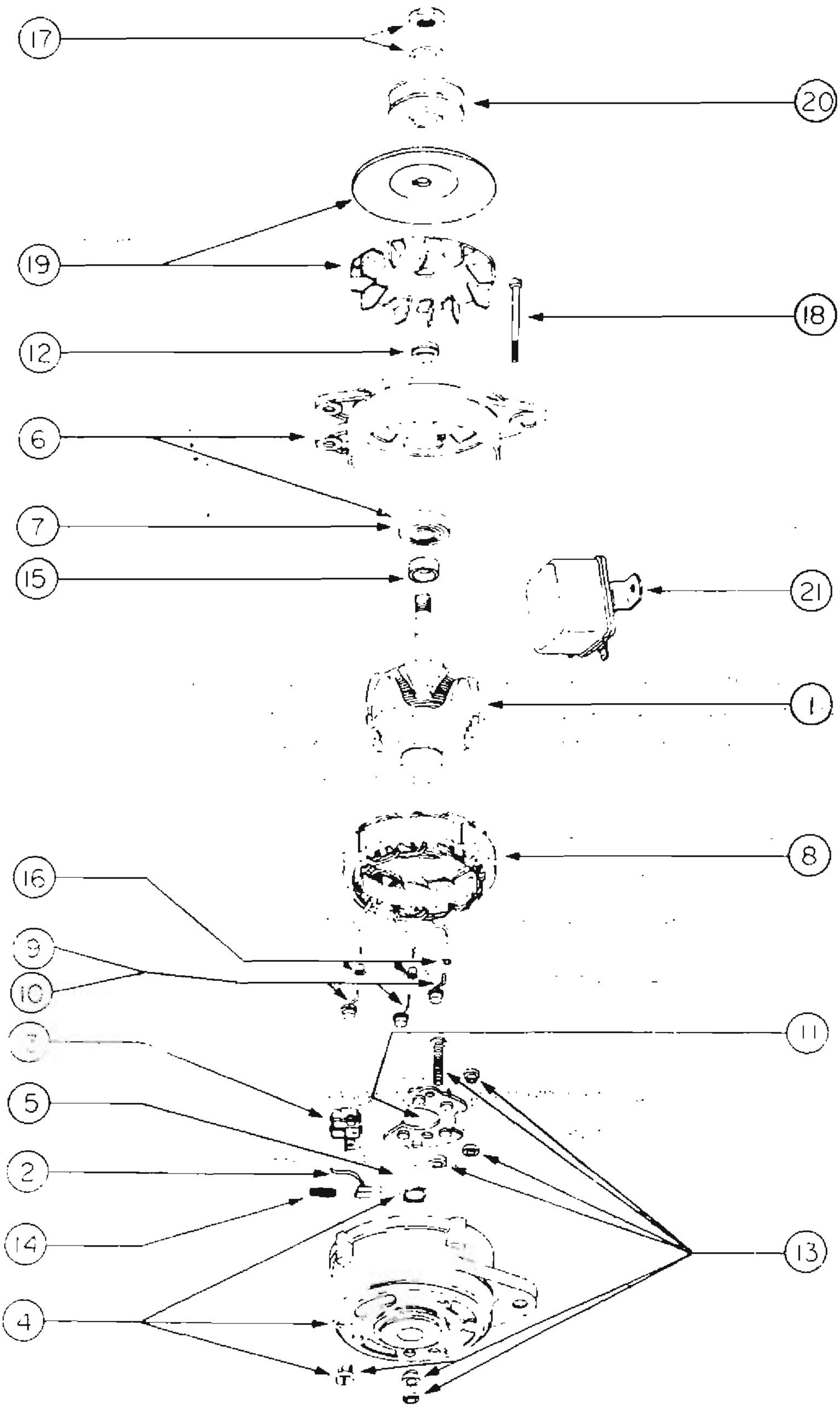
File in the
OE-92 PARTS BINDER

ALTERNATOR SECTION



Exploded View of Typical ALE Alternator

Assembly	Rotor Assembly (1)	Brush Set (2)	Br.,Holder & Spring Assembly (3)	Slip Ring End Head Assembly (4)	S.R.E. Bearing (5)	Drive End Head Assembly (6)	D.E. Bearing (7)
ALE-5001 thru	10-105 (ALE-2006)	11-53 (ALE-1012DS)	- - - -	12-256 (ALE-1002S)	24-32 (X-3417)	14-72 (ALE-1003)	25-1 (X-3416)
ALE-5003S thru	"	"	- - - -	"	"	"	
ALE-5005S thru	"	"	- - - -	12-98 (ALE-1002DS)	"		
ALE-5008 thru		"	- - - -	12-104 (ALE-1002CS)		14-108 (ALE-1003D)	
ALE-5009S thru	"		- - - -	"	"		
ALE-5010 thru			- - - -	12-117 (ALE-1002ES)			
ALE-5011 thru			- - - -	"			
ALE-5012 thru	30-2404[c]	11-73 (ALE-1013S)	35-748[a] (ALE-1045AS)	90-2404[c]	25-24 (X-3433)		
ALE-5013 thru	10-328 (ALE-2146)		"	12-313[b] (ALK-1132MAS)	"	"	
ALE-5014 thru	10-105 (ALE-2006)	11-62 (ALE-1012LS)	- - - -	12-171 (ALE-1002KS)	24-32 (X-3417)	14-72 (ALE-1003)	
ALE-5015S thru			- - - -	"			
ALE-5101S thru	"		- - - -	12-67 (ALE-1002AS)			
ALE-5102S-1 thru	10-217 (ALE-2027A)		- - - -	12-179 (ALE-1022DS)	25-24 (X-3433)		
ALE-5104S-1 thru			- - - -	12-184 (ALE-1022AS)			
ALE-5105 thru	90-2405[d]	11-73 (ALE-1013S)	35-748[a] (ALE-1045AS)	90-2405[d]		14-108 (ALE-1003D)	
ALE-5120	10-328 (ALE-2146)		"	12-314[b] (ALK-1132LAS)		14-72 (ALE-1003)	

[a] 35-440(ALE-55)Br.Holder Cover Insulation is also available.
[b] Includes 35-438(XA-744A2)"O"-Ring Seal which is also individually available.
[c] Slip Ring End Head & Rotor Pkg. Complete Package must be used at time of first repair.Individual Components 12-313(ALK-1132MAS) S.R.E. Head and 10-328(ALE-2146) Rotor may be replaced thereafter.
[d] Slip Ring End Head & Rotor Pkg. Complete Package must be used at time of first repair. Individual Components 12-314(ALK-1132LAS)S.R.E.Head & 10-328 (ALE-2146) Rotor may be replaced thereafter

ALE-5001 TO 5120

Assembly	Stator Assembly (8)	Positive Rectifier Package (9)	Negative Rectifier Package (10)	Rectifier & Plate Assembly (11)	Rotor Shaft Spacer (12)	Term. Stud Package (13)	Brush Spring Set (14)
ALE-5001	13-51 (ALE-2008)	- - - -	35-757 (XA-944JS)	35-564 (ALE-1004)	35-55 (ALD-21)	90-4196	50-273 (ALA-195)
ALE-5001S (51-31)	"	- - - -	"	"	"	"	"
ALE-5003S (51-45)	"	- - - -	"	"	"	"	"
ALE-5004 (51-17)	"	- - - -	"	"	"	"	"
ALE-5004S (51-43)	"	- - - -	"	"	"	"	"
ALE-5006	"	- - - -	"	"	"	"	"
ALE-5006S (51-35)	"	- - - -	"	"	"	"	"
ALE-5014 (51-206)	"	- - - -	"	35-763 (ALE-1054A)	"	90-2359	- - - -
ALE-5022 (51-24[illegible]	"	- - - -	"	"	"	"	- - - -
ALE-5101P	"	35-758 (XA-943FS)	- - - -	35-558 (ALE-1004B)	"	"	50-273 (ALA-195)
ALE-5101FS (51-46)	"	"	- - - -	"	"	"	"
ALE-5101S (51-4)	"	- - - -	35-757 (XA-944JS)	35-564 (ALE-1004)	"	"	"
ALE-5104FS-1 (51-54)	"	35-758 (XA-943FS)	- - - -	35-568 (ALE-1004B)	35-55 (ALD-21)	"	"
ALE-5104S-1 (51-55)	"	- - - -	35-757 (XA-944JS)	35-564 (ALE-1004)	"	"	"
ALE-5106 (51-202)	"	- - - -	"	35-763 (ALE-1054A)	"	"	- - - -
ALE-5120 (51-248	"	- - - -	"	"	"	"	- - - -

ALE-5001 TO 5120

Assembly	D.E. Retainer (15)	Eyelet Package (16)	Nut & Washer Package (17)	Thru Bolt Package (18)	Vent. Fan (19)	Drive Pulley (20)	Regulator (21)
ALE-5001	35-29 (GR-32)	90-818	90-33	35-436 (ALA-205)	90-2241	34-127 (PU-585)	8-724 (VBT-6201F)
ALE-5001S (51-81)	"	"	"	"	"	- - - -	"
ALE-5003S (51-45)	"	"	"	"	"	- - - -	- - - -
ALE-5004 (51-17)	"	"	"	"	"	34-124 (PU-598A)	8-726 (VBV-6201C)
ALE-5004S (51-43)	"	"	"	"	"	- - - -	"
ALE-5006	"	"	"	"	"	34-132 (PU-603)	8-724 (VBT-6201F)
ALE-5006S (51-39)	"	"	"	"	"	- - - -	"
ALE-5014 (51-200)	"	"	"	"	"	- - - -	- - - -
ALE-5022 (51-245)	"	"	"	"	"	- - - -	- - - -
ALE-5101P	"	"	"	"	"	34-340 (PU-666)	8-266 (VBV-6201B-3)
ALE-5101PS (51-46)	"	"	"	"	"	- - - -	
ALE-5101S (51-4)	"	"	"	"	"	- - - -	- - - -
ALE-5104PS-1 (51-54)	"	"	"	"	"	- - - -	- - - -
ALE-5104S-1 (51-55)	"	"	"	"	"	- - - -	- - - -
ALE-5106 (51-202)	"	"	"	"	"	- - - -	- - - -
ALE-5120 (51-210)	"	"	"	"	"	- - - -	- - - -

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SERVICE PARTS LIST

ALE-5201A TO 5220

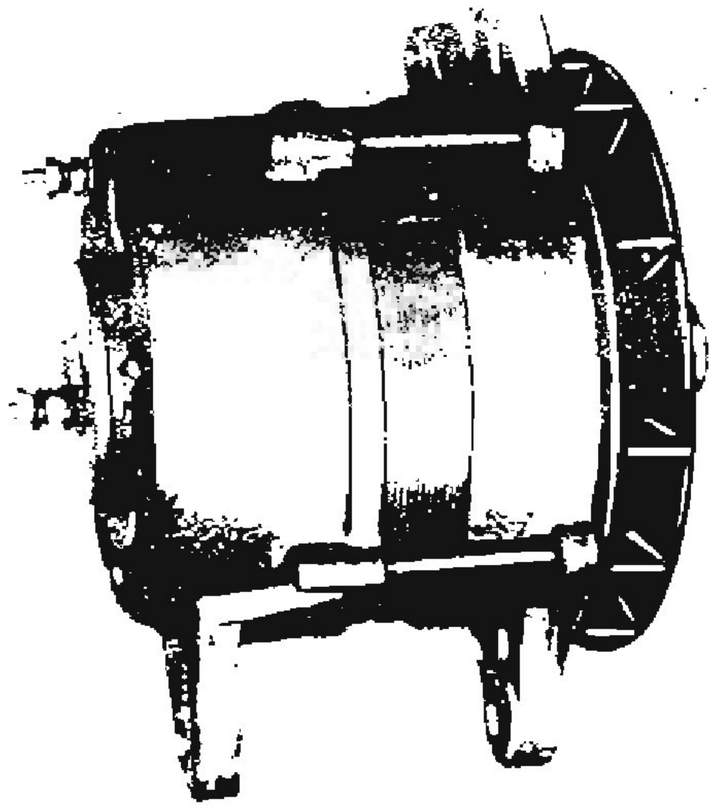
ALTERNATORS

ISSUED: 2-17-75(Rev.)

ORIG.EQUIP. ALTERNATOR SERVICE ALTERNATOR VOLTS-12

ENG. NUMBER		ENG. NUMBER	SALES NUMBER	APPLICATION
ALE-5201A	USE	ALE-5220	51-249	Trent Perrin(Can.)
ALE-5201B	USE	ALE-5220	51-249	Steel & Engine Products(Can.)
ALE-5201C	USE	ALE-5220	51-249	Acadia Gas Engine(Can.)
ALE-5201S	USE	ALE-5220	51-249	Crusader Marine,Service Alt.
ALE-5201S-1	USE	ALE-5220	51-249	Universal Alt.
ALE-5201SS	USE	ALE-5220	51-249	Universal Alt.
ALE-5202	USE	ALE-5220	51-249	Chris-Craft
ALE-5202B	USE	ALE-5220	51-249	Chris-Craft
ALE-5202S	USE	ALE-5220	51-249	Crusader,Univ.Mtr.,Service Alt.
ALE-5202Y	USE	ALE-5220	51-249	Chris-Craft
ALE-5202YS	USE	ALE-5220	51-249	Service
ALE-5203	USE	ALE-5220	51-249	Evinrude,Johnson
ALE-5203A	USE	ALE-5220	51-249	Evinrude,Johnson
ALE-5203S	USE	ALE-5220	51-249	Service
ALE-5204	USE	ALE-5220	51-249	Starrett Marine Diesel
ALE-5204S	USE	ALE-5220	51-249	Crusader Marine,Service
ALE-5209	USE	ALE-5220	51-249	Service
ALE-5220		ALE-5220	51-249	Service

NOTE: SEE TABLE FOR ALTERNATOR BEING SERVICED WHEN PARTS ARE REQUIRED.



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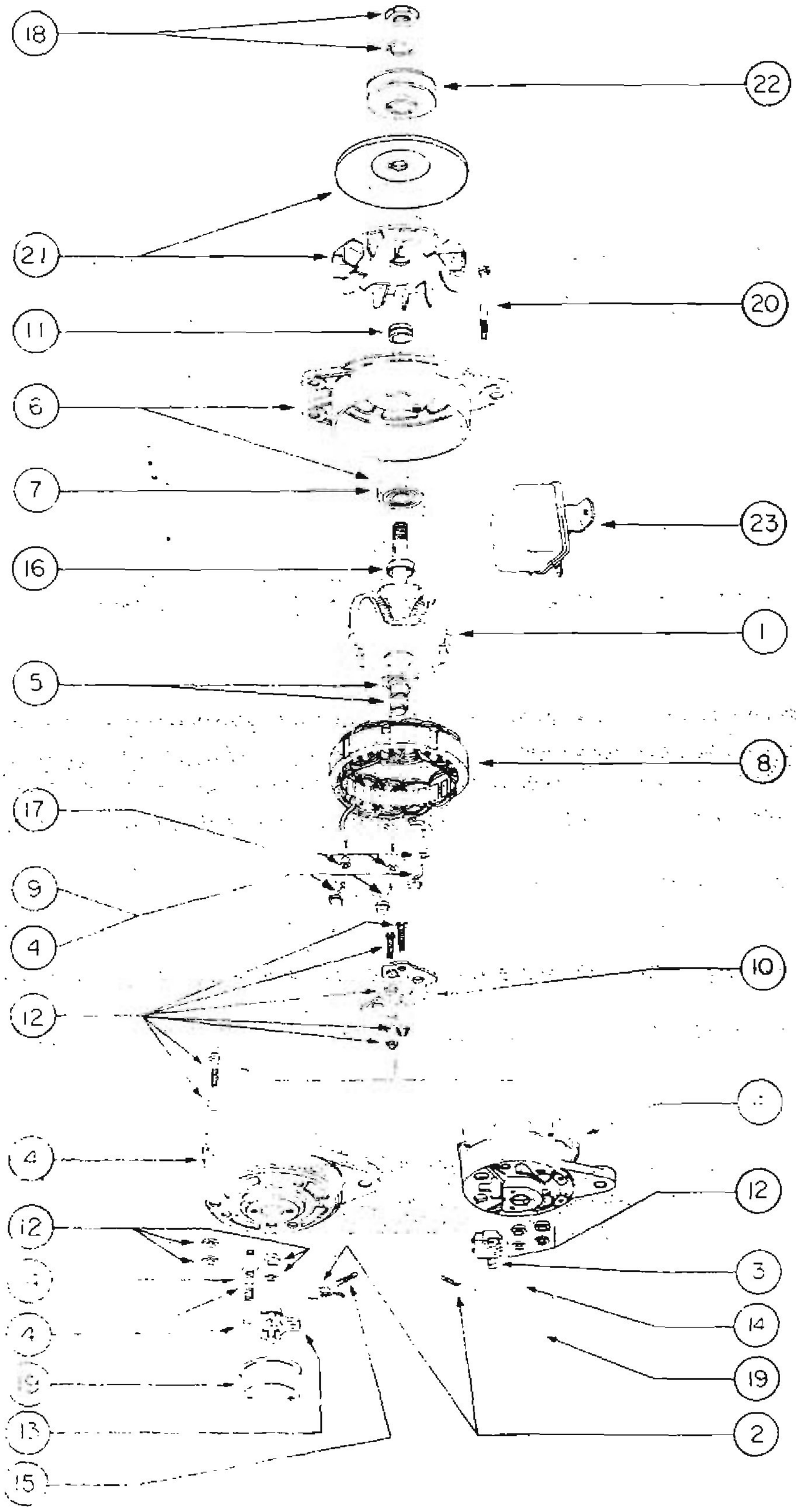
ALTERNATOR SECTION

ALE-5201A to 5220 Alternator Parts List



Exploded View of Typical ALE Alternator

Assembly	Rotor Assembly (1)	Brush Set (2)	Br. Holder & Spring Assembly (3)	Slip Ring End Head Assembly (4)	Slip Ring & Bearing Pkg.[a] (5)	Drive End Head Assembly (6)	D.E. Bearing (7)
ALE-5201A (51-49)	10-108 (ALE-3006)	11-40 (ALE-1012AS)	- - - -	12-99 (ALE-3022S)	90-851	14-72 (ALE-1003)	25-1 (X-3416)
ALE-5201B - - - -	"	"	- - - -	"	"	"	"
ALE-5201C - - - -	"	"	- - - -	"	"	"	"
ALE-5201S (51-14)	"	"	- - - -	"	"	"	"
ALE-5201S-1 (51-57)	"	"	- - - -	"	"	"	"
ALE-5201SS (51-19)	"	"	- - - -	"	"	"	"
ALE-5202 (51-12)	"	"	- - - -	12-70 (ALE-3022AS)	"	14-75 (ALE-1003C)	"
ALE-5202B - - - -	"	"	- - - -	"	"	"	"
ALE-5202S (51-48)	"	"	- - - -	"	"	"	"
ALE-5202Y - - - -	"	"	- - - -	"	"	"	"
ALE-5202YS (51-82)	"	"	- - - -	"	"	"	"
ALE-5203 - - - -	"	"	- - - -	12-70 (ALE-3022AS)	"	14-175 (ALE-1003K)	"
ALE-5203A - - - -	"	"	- - - -	"	"	"	"
ALE-5203S (51-41)	"	"	- - - -	"	"	"	"
ALE-5204 - - - -	"	"	- - - -	"	"	14-75 (ALE-1003C)	"
ALE-5204S (51-69)	"	"	- - - -	"	"	"	"
ALE-5209 (51-251) (51-249)	90-2406[d]	11-73 (ALE-1013S) (ALE-2147)	35-755[b] (ALK-1023-S)	90-2406[d] (ALK-1132NS)	"	14-175 (ALE-1003K)	"

[a] Slip Ring & Bearing Pkg.; also included with Rotor Assy.
[b] 35-440(ALE-55) Br. Holder Cover Insulation & 35-557(ALK-19A) Back-Up Br. Holder Plate are also available.
[c] Included 35-438(XA-744AN) "O"-Ring Seal which is also individually available.
[d] Slip Ring End Head & Rotor Pkg. Complete Package must be used at time of first repair. Individual Components 12-315(ALK-1132NS) S.R.E.Head & 10-319(ALE-2147) Rotor may be replaced thereafter.

ALE-5201A TO 5220

Assembly	Stator Assembly (8)	Negative Rectifier Package(3Pcs.) (9)	Pos.Rect.& Plate Assembly (10)	Rotor Shaft Spacer (11)	Term. Stud Package (12)	Brush Holder (13)	Holder & Cover Stud Package (14)
ALE-5201A (51-49)	13-51 (ALE-2008)	35-757 (XA-944JS)	35-564 (ALE-1004)	35-55 (ALD-21)	90-403A	35-105 (ALD-1D14)	35-428 (ALO-18S)
ALE-5201B - - - -	"	"	"	"	"	"	"
ALE-5201C - - - -	"	"	"	"	"	"	"
ALE-5201S (51-14)	"	"	"	"	"	"	"
ALE-5201S-1 (51-57)	"	"	"	"	"	"	"
ALE-5201SS (51-19)	"	"	"	"	"	"	"
ALE-5202 (51-12)	"	"	"	"	"	"	"
ALE-5202B - - - -	"	"	"	"	"	"	"
ALE-5202S (51-48)	"	"	"	"	"	"	"
ALE-5202Y - - - -	"	"	"	"	"	"	"
ALE-5202YS (51-82)	"	"	"	"	"	"	"
ALE-5203 - - - -	"	"	"	"	"	"	"
ALE-5203A - - - -	"	"	"	"	"	"	"
ALE-5203S (51-41)	"	"	"	"	"	"	"
ALE-5204 - - - -	"	"	"	"	"	"	"
ALE-5204S (51-69)	"	"	"	"	"	"	"
ALE-5209 (51-221)	"	"	35-763 (ALE-1054A)	"	90-602	- - - -	90-2262
ALE-5220 (51-249)	"	"	"	"	"	- - - -	90-2388

ALE-5201A TO 5220

ISSUED: 2-17-75(REV.) SHEET 3

Assembly	Brush Spring Set (15)	D.E. Retainer (16)	Eyelet Package (17)	Nut & Washer Package (18)	Slip Ring Cover (19)	Thru Bolt Package (20)	Vent Fan (21)
ALE-5201A (51-49)	50-273 (ALA-195)	35-29 (GR-32)	90-818	90-33	35-338 (ALD-33)	35-436 (ALA-205)	90-2241
ALE-5201B - - - -	"	"	"	"	"	"	"
ALE-5201C - - - -	"	"	"	"	"	"	"
ALE-5201S (51-14)	"	"	"	"	"	"	"
ALE-5201S-1 (51-57)	"	"	"	"	"	"	"
ALE-5201SS (51-19)	"	"	"	"	"	"	"
ALE-5202 (51-12)	"	"	"	"	"	"	"
ALE-5202B - - - -	"	"	"	"	"	"	"
ALE-5202S (51-48)	"	"	"	"	"	"	"
ALE-5202Y - - - -	"	"	"	"	"	"	"
ALE-5202YS (51-82)	"	"	"	"	"	"	"
ALE-5203 - - - -	"	"	"	"	"	"	"
ALE-5203A - - - -	"	"	"	"	"	"	"
ALE-5203S (51-41)	"	"	"	"	"	"	"
ALE-5204 - - - -	"	"	"	"	"	"	"
ALE-5204S (51-69)	"	"	"	"	"	"	"
ALE-5[illegible] - - - -	"	"	"	"	35-566 [illegible]		
ALE-5220 (51-247)	"	"	"	"	35-771 (ALK-210)	"	"

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ALTERNATOR SECTION

ALE-5201A TO 5220

Assembly	Drive Pulley (22)	Regulator (23)
ALE-5201A (51-49)	34-127 (PU-585)	8-726 (VBV-6201C)
ALE-5201B - - - -	34-132 (PU-603)	8-358 (VSH-6201P)
ALE-5201C - - - -	34-239 (PU-595A)	8-726. (VBV-6201C)
ALE-5201S (51-14)	- - - -	- - - -
ALE-5201S-1 (51-57)	- - - -	- - - -
ALE-5201SS (51-19)	- - - -	- - - -
ALE-5202 (51-12)	34-127 (PU-585)	8-726 (VBV-6201C)
ALE-5202B - - - -	34-340 (PU-666)	"
ALE-5202S (51-48)	- - - -	"
ALE-5202Y - - - -	34-127 (PU-585)	8-125 (VBV-6201A-3)
ALE-5202YS (51-82)	- - - -	"
ALE-5203 - - - -	34-127 (PU-585)	8-352 (VSH-6201M)
ALE-5203A - - - -	"	"
ALE-5203S (51-41)	- - - -	"
ALE-5204 - - - -	34-127 (PU-585)	8-356 (VSH-6201J)
ALE-5204S (51-69)	- - - -	"
ALE-5220 (51-201)	- - - -	- - - -
ALE-5220 (51-249)	- - - -	- - - -

TEMPORARY PARTS LIST

ASSY. NO. ALE-5220YS

SALES NO. 51-280

ALTERNATOR

ISSUED 12-9-77

prestolite®

SERVICE PARTS LIST

Application

Service Part No.	No. Used	Part Description	Prestolite Sales No.
ALK-1020AS	1	BRUSH HOLDER & SPRING ASSY.	35-755
ALE-1013S	1	BRUSH-SHUNT & SPRING SET	11-73
ALK-21D	1	COVER,SLIP RING	35-771
90-2388	1	COVER STUD PKG.	90-2388
90-818	1	EYELET PKG.	90-818
90-2241	1	FAN,VENTILATING	90-2241
ALE-1003K	1	HEAD ASSY.,DRIVE END	14-175
X-3416	1	BEARING,BALL,S.A.E.#203	25-1
ALK-1132NS	1	HEAD ASSY.,SLIP RING END	12-315
ALE-55	1	INSULATION,SLIP RING END	35-440
XA-944JS	1	RECTIFIER PKG.(NEGATIVE)	35-757
XA-744AN	1	SEAL,"O"RING	35-438
90-33	1	NUT & WASHER PKG.	90-33
ALK-19A	1	PLATE,BACK-UP,BR.HOLDER	35-557
ALE-1054A	1	RECTIFIER & PLATE ASSY.(POSITIVE)	35-763
GR-32	1	RETAINER,FELT WASHER	35-29
ALE-2147	1	ROTOR & BEARING ASSY.	10-319
90-851	1	SLIP RING & BEARING PKG.	90-851
ALD-21	1	SPACER,ROTOR SHAFT	35-55
ALE-2008	1	STATOR ASSY.	13-51
90-602	1	TERMINAL STUD & PARTS PKG.*(HDWE.INCL.)	90-602
	1	Bushing,Ins.,Aux.Term.	
	1	Bushing,Ins.,Batt.Term.	
	1	Bushing,Ins.,Field Term.	
	1	Bushing,Ins.,Aux.Term.	
	1	Stud,Aux.Term.,#10-32	
	1	Stud,Batt.Term.,1/4-28	
	1	Stud,Field Term.,#10-32	
	1	Washer,Ins.,Batt.Term.	
	1	Washer,Ins.,Field Term.	
	2	Washer,Plain,Aux.& Field Term.	
	1	Washer,Plain,Batt.Term.	
ALA-20S	1	THRU BOLT PKG.	35-436

* Contains additional parts to service other applications.

Note:See Parts List for Alternator being replaced if Regulator is required.

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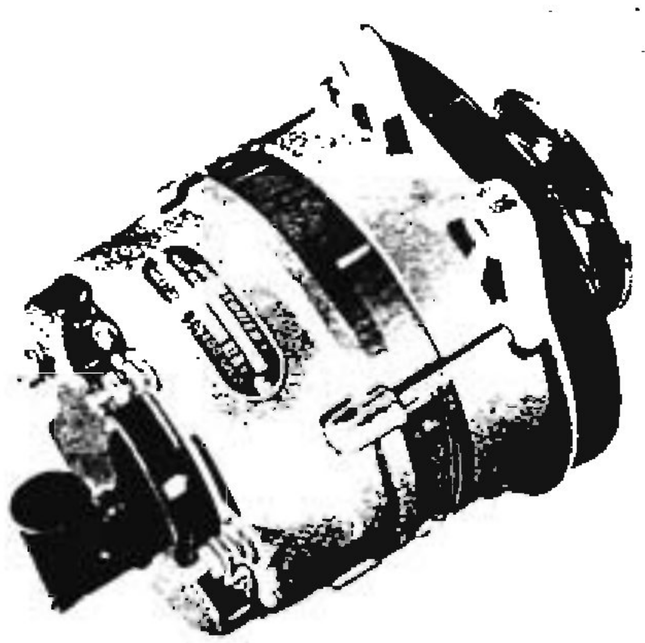
SERVICE PARTS LIST

ALE-6010S TO 7020

ALTERNATOR

ISSUED: 2-17-75(Rev.)

ORIG.EQUIP.ALTERNATOR ENG. NUMBER		SERVICE ALTERNATOR ENG. NUMBER	SALES NUMBER	VOLTS-12 APPLICATION
ALE-6010S	USE	ALE-6013S	51-180	Service Alternator
ALE-6012	USE	ALE-6020S	51-250	J.I.Case(Military)
ALE-6012S	USE	ALE-6020S	51-250	Service
ALE-6013S		ALE-6013S	51-180	Sylvester Steel(Can.)
ALE-6020	USE	ALE-6020S	51-250	J.I.Case(Military)
ALE-6020S		ALE-6020S	51-250	Service
ALE-6207AY	USE	ALE-6221YS	51-251	Chris-Craft
ALE-6207Y	USE	ALE-6221YS	51-251	Chris-Craft
ALE-6207YS	USE	ALE-6221YS	51-251	Service
ALE-6221AY	USE	ALE-6221YS	51-251	Chris-Craft
ALE-6221Y	USE	ALE-6221YS	51-251	Chris-Craft
ALE-6221YS		ALE-6221YS	51-251	Service
ALE-6304	USE	ALE-6304S	51-111	Rambler(Can.)
ALE-6304S		ALE-6304S	51-111	Service
ALE-6401S		ALE-6401S	51-140	Universal Service
ALE-6406	USE	ALE-6406R	51-90	Lycoming(Aircraft)
ALE-6406G	USE	ALE-6406R	51-90	Lycoming(Aircraft)
ALE-6406R		ALE-6406R	51-90	Service
ALE-6406RG	USE	ALE-6406R	51-90	Service
ALE-6420	USE	ALE-6420R	51-221	Lycoming(Aircraft)
ALE-6420G	USE	ALE-6420R	51-221	Lycoming(Aircraft)
ALE-6420R		ALE-6420R	51-221	Service
ALE-6420RG	USE	ALE-6420R	51-221	Service
ALE-7012	USE	ALE-6020S	51-250	J.I.Case(Military)
ALE-7020	USE	ALE-6020S	51-250	J.I.Case(Military)



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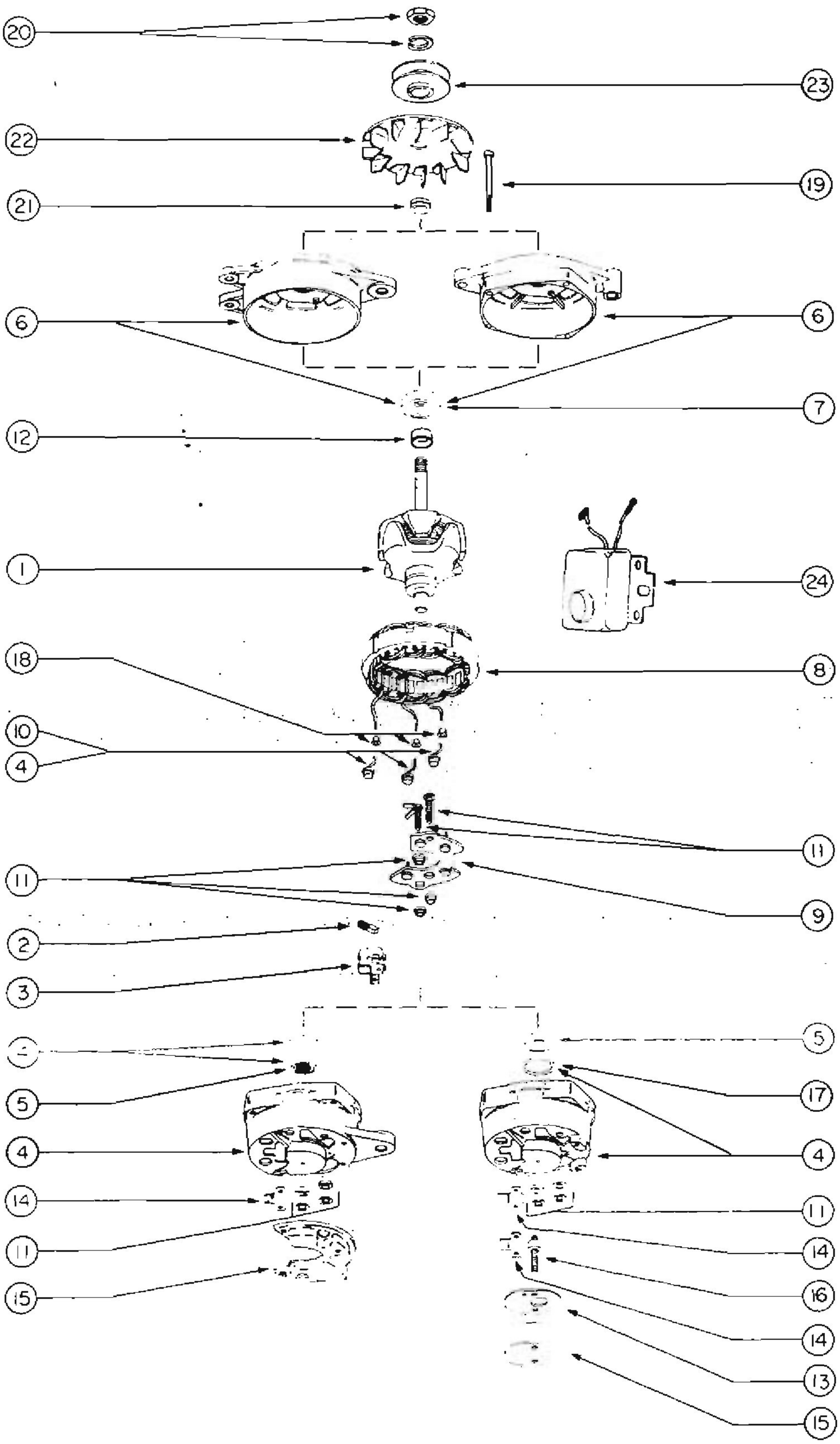
ALTERNATOR SECTION

ALE-6010S to 7020 Alternator Parts List



Exploded View of Typical ALE Alternator

Assembly	Rotor Assembly (1)	Brush Set (2)	Brush, Holder & Spring Assembly (3)	Slip Ring End Head Assembly (4) *	S.R.E. Bearing (5)	Drive End Head Assembly (6)	D.E. Bearing (7)
ALE-6010S (51-125)	10-230 (ALE-2046)	- - - -	35-748[a] (ALE-1045AS)	12-214 (ALK-1042DS)	25-24 (X-3433)	14-237 (ALK-1025D)	25-1 (X-3416)
ALE-6012,S (51-108)	90-2407[c]	- - - -	"	90-2407[c]	"	14-249 (ALE-1043)	"
ALE-6013S (51-180)	"	- - - -	"	"	"	14-263 (ALE-1043B)	"
ALE-6020,S (51-250)	10-328 (ALE-2146)	11-73 (ALE-1013S)	35-748 (ALE-1045AS)	12-316 (ALE-1142AE5)	"	14-249 (ALE-1043)	"
ALE-6207AY - - - -	90-2408[c]	- - - -	35-755[a] (ALK-1020AS)	90-2408[c]	90-851[d]	14-263 (ALE-1043B)	"
ALE-6207Y,YS (51-130)	"	- - - -	"	"	"	"	"
ALE-6221AY - - - -	10-319 (ALE-2147)	11-73 (ALE-1013S)	35-755 (ALK-1020AS)	12-309 (ALE-1142ZS)	"	"	"
ALE-6221Y,YS (51-251)	"	"	"	"	"	"	"
ALE-6304,S (51-111)	10-230 (ALE-2046)	- - - -	35-755[a] (ALE-1045AS)	12-214 (ALK-1042OS)	25-24 (X-3433)	14-237 (ALK-1025D)	"
ALE-6401S (51-140)	90-2407[c]	- - - -	"	90-2407[c]	"	14-217 (ALE-1043A)	"
ALE-6406,R (51-90)	90-2396[c]	- - - -	35-749[b] (ALU-1045BS)	90-2396[c]	90-2014[e]	14-175 (ALE-1003K)	"
ALE-6406G,RG - - - -	"	- - - -	"	"	"	"	"
ALE-6420,R (51-221)	10-320 (ALE-2173S-1)	11-74 (ALE-1013AS)	35-749 (ALU-1045BS)	12-310 (ALK-1132BS-1)	"	"	"
ALE-6420G,RG - - - -	"	"	"	"	"	"	"
ALE-7012 - - - -	90-2407[c]	- - - -	35-748[a] (ALE-1045AS)	90-2407[c]	25-24 (X-3433)	14-249 (ALE-1043)	"
ALE-7020 - - - -	10-328 (ALE-2146)	11-73 (ALE-1013S)	35-748 (ALE-1045AS)	12-316 (ALE-1142AES)	"	"	"

[*] 35-781 (GJC-49BS) Cover Pkg. (10 Pcs.) also available.
[a] 11-73(ALE-1013S)Captive Brush & Spring Set also individually available for units already having this design. Earlier units must replace the complete Brush Holder assy. if Brushes or Springs are required.
[b] Same as [a] except use 11-74(ALE-1013AS) Captive Brush & Spring Set.
[c] S.R.E.Head Rotor Pkg.,Complete Package must be used at time of first repair. Individual components, (See back of Sheet #3 for contents of Pkg.) may be replaced thereafter.
[d] Slip Ring & Bearing Package, also included with Rotor.
[e] Bearing & Seal Package; also included with Rotor & S.R.E. Head Assy.

ALE-6010S TO 7020

Assembly	Stator Assembly (8)	Pos.Rectifier & Plate Assembly (9)	Negative Rectifier (Pkg.of 3) (10)	Terminal Stud Package (11)	D.E. Retainer (12)	Back-Up Plate (13)	Br.Holder Cover Insulation (14)
ALE-6010S (51-125)	13-51 (ALE-2008)	35-763 (ALE-1054A)	35-757 (XA-944JS)	90-2359	35-29 (GR-32)	- - - -	35-440 (ALE-55)
ALE-6012,S (51-108)	"	"	"	90-2043	"	- - - -	"
ALE-6013S (51-180)	"	"	"	"	"	- - - -	"
ALE-6020,S (51-250)	"	"	"	"	"	- - - -	"
ALE-6207AY - - - -	"	35-566 (ALE-1054C)	"	90-945	"	35-557 (ALK-19A)	"
ALE-6207Y,YS (51-130)	"	"	"	"	"	"	"
ALE-6221AY - - - -	"	"	"	"	"	"	"
ALE-6221Y,YS (51-251)	"	"	"	"	"	"	"
ALE-6304,S (51-111)	"	"	"	90-887B	"	- - - -	"
ALE-6401S (51-140)	13-154 (ALE-2008K)	35-763 (ALE-1054A)	"	90-2043	"	- - - -	"
ALE-6406,R (51-90)	13-171 (ALE-2008AD)	"	"	90-2030	"	- - - -	- - - -
ALE-6406G,RG - - - -	"	"	"	"	"	- - - -	- - - -
ALE-6420,R (51-221)	"	"	"	"	"	- - - -	- - - -
ALE-6420G,RG - - - -	"	"	"	"	"	- - - -	- - - -
ALE-7012 - - - -	13-51 (ALE-2008)	"	"	90-2043	"	- - - -	35-440 (ALE-55)
ALE-7020 - - - -	"	"	"	"	"	- - - -	"

Assembly	Slip Ring End Cover (15)	Cover Stud Package (16)	"O" Ring Seal (17)	Eyelet Package (18)	Thru Bolt Package (19)	Nut & Washer Package (20)	Rotor Shaft Spacer (21)
ALE-6010S (51-125)	- - - -	- - - -	35-438 (XA-744AN)	90-818	35-441 (ALA-20BS)	90-33	35-444 (ALC-21E)
ALE-6012,S (51-108)	- - - -	- - - -	"	"	35-436 (ALA-20S)	"	"
ALE-6013S (51-130)	- - - -	- - - -	"	"	"	"	"
ALE-6020,S (51-250)	- - - -	- - - -	"	"	"	"	"
ALE-6207AY - - - -	35-771 (ALK-21D)	90-2262	"	"	"	"	"
ALE-6207Y,YS (51-130)	"	"	"	"	"	"	90-946
ALE-6221AY - - - -	"	90-2388	"	"	"	"	35-444 (ALC-21E)
ALE-6221Y,YS (51-251)	"	"	"	"	"	"	90-946
ALE-6304,S (51-111)	- - - -	- - - -	"	"	35-441 (ALA-20BS)	"	35-444 (ALC-21E)
ALE-6401S (51-145)	- - - -	- - - -	"	"	35-436 (ALA-20S)		"
ALE-6406,R (51-90)	- - - -	- - - -	- - - -	"	35-552 (ALA-20JS)	"	35-55 (ALO-21)
ALE-6406G,RG - - - -	- - - -	- - - -	- - - -	"	"	"	"
ALE-6420,R (51-221)	- - - -	- - - -	- - - -	"	"	"	"
ALE-6420G,RG - - - -	- - - -	- - - -	- - - -	"	"	"	"
ALE-7012 - - - -	- - - -	- - - -	35-438 (XA-744AN)	"	35-436 (ALA-20S)	"	35-444 (ALC-21E)
ALE-7020 - - - -	- - - -	- - - -	"	"	"	"	"

ALE-6010S TO 7020

Assembly	Vent. Fan (22)	Drive Pulley (23)	Regulator (24)
ALE-6010S (51-125)	34-322 (PU-1664)	- - - -	8-358 (VSH-6201P)
ALE-6012,S (51-108)	"	34-340[g] (PU-666)	8-328A (VSH-6201A)
ALE-6013S (51-180)	"	- - - -	8-358 (VSH-6201P)
ALE-6020,S (51-250)	"	34-340[g] (PU-666)	8-328A (VSH-6201A)
ALE-6207AY - - - -	"	34-240 (PU-632)	8-350 (VSH-52048-Y)
ALE-6207Y,YS (51-130)	"	34-379[g] (PU-674)	"
ALE-6221AY - - - -	"	34-240 (PU-632)	"
ALE-6221Y,YS (51-251)	"	34-379[g] (PU-674)	"
ALE-6304,S (51-111)	"	34-127[g] (PU-585)	8-355 (VSH-6201H)
ALE-6401S (51-140)	"	- - - -	- - - -
ALE-6406,R (51-90)	90-2241[f]	34-400 (PU-672A)	8-342 (VSF-7203S)
ALE-6406G,RG - - - ---	"	"	8-5014 (FVR-4011A)
ALE-6420,R (51-221)	"	"	8-342 (VSF-7203S)
ALE-6420G,RG - - - -	"	"	8-5014 (FVR-4011A)
ALE-7012 - - - -	34-322 (PU-1654)	34-340 (PU-666)	8-328A (VSH-6201A)
ALE-7020 - - - -	"	"	"

[c] Contents of S.R.E. Head & Rotor Package

S.R.E.Hd. & Rotor Pkg.	90-2396	90-2407	90-2408
Bearing Pkg.	90-2014	- - - -	- - - -
Head Assy.,S.R.E.	12-310 (ALK-1132BS-1)	12-316 (ALE-1142AES)	12-309 (ALE-1142ZS)
Rotor	10-320 (ALE-2173S-1)	10-328 (ALE-2146)	10-319 (ALE-2147)

[f] Two (2) Piece Fan Pkg.
[g] Drive Pulley not included with Service Alternator.

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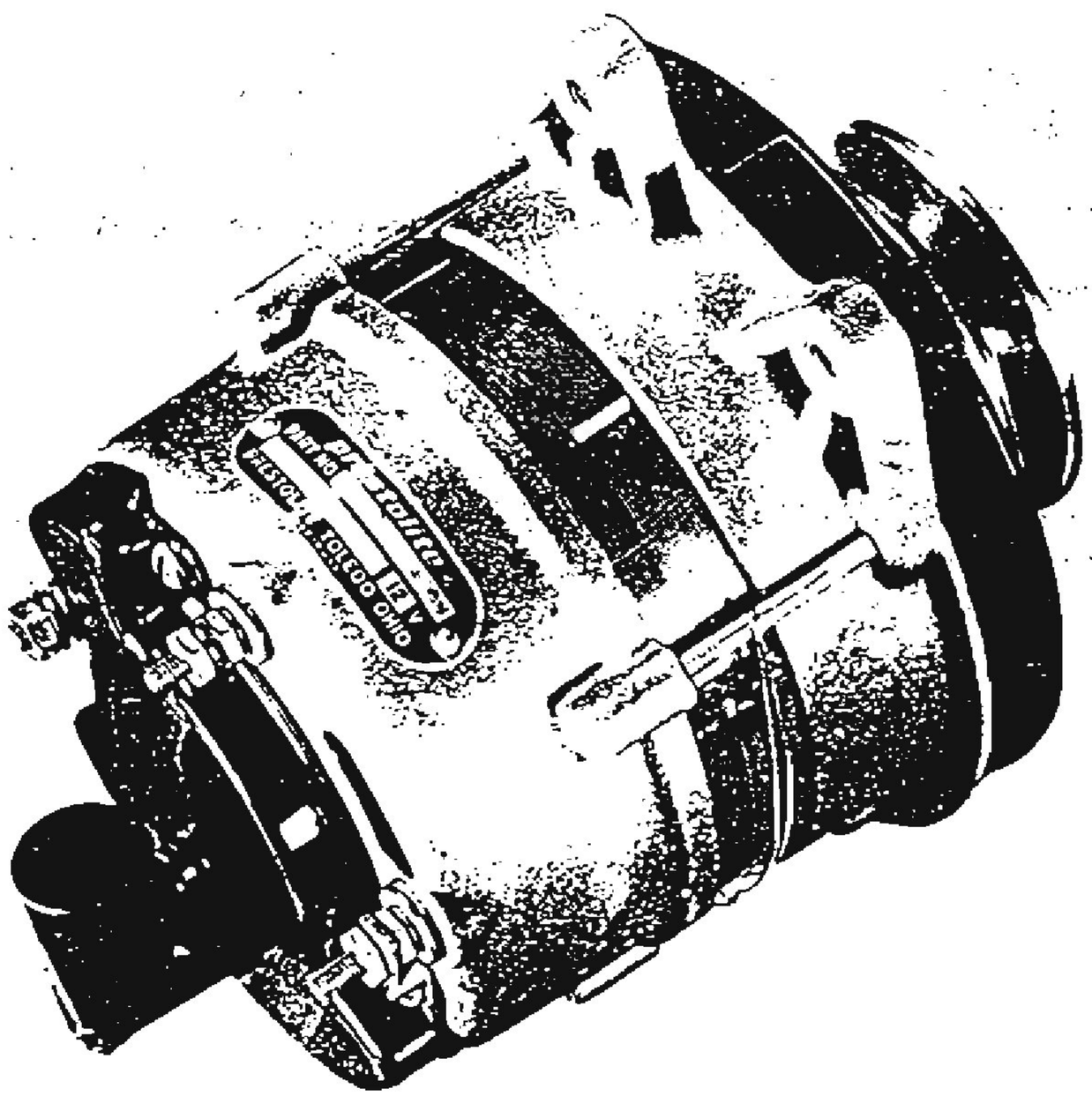
SERVICE PARTS LIST

ALE-8105 TO 8421R

ALTERNATOR

ISSUED: 2-17-75(Rev.)

ORIG.EQUIP.ALTERNATOR ENG. NUMBER		SERVICE ALTERNATOR ENG. NUMBER	SALES NUMBER	VOLTS-12 APPLICATION
ALE-8105A	USE	ALE-8408R	51-154	Lycoming(Aircraft)
ALE-8406	USE	ALE-8406R	51-93	Lycoming(Aircraft)
ALE-8406G	USE	ALE-8406R	51-93	Lycoming(Aircraft)
ALE-8406R		ALE-8406R	51-93	Service
ALE-8406RG	USE	ALE-8406R	51-93	Service
ALE-8408	USE	ALE-8408R	51-154	Lycoming(Aircraft)
ALE-8408R		ALE-8408R	51-154	Service
ALE-8420	USE	ALE-8420R	51-222	Lycoming(Aircraft)
ALE-8420G	USE	ALE-8420R	51-222	Lycoming(Aircraft)
ALE-8420R		ALE-8420R	51-222	Service
ALE-8420RG	USE	ALE-8420R	51-222	Service
ALE-8421	USE	ALE-8421R	51-223	Lycoming(Aircraft)
ALE-8421R		ALE-8421R	51-223	Service



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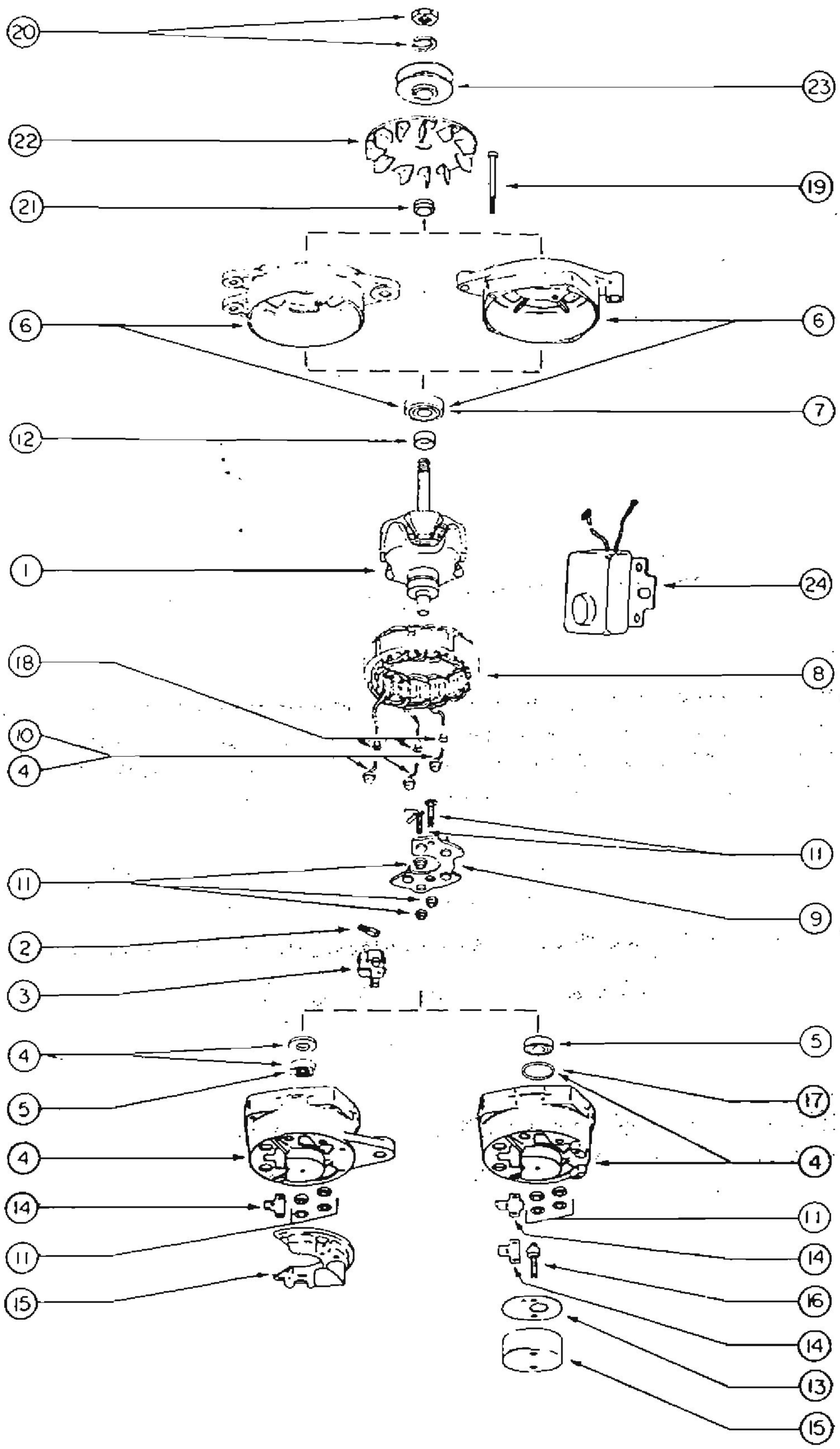
File in the
OE-92 PARTS BINDER

ALTERNATOR SECTION

ALE-8105 to 8421R Alternator Parts List



Exploded View of Typical ALE Alternator

SHEET 2 ISSUED: 3-5-79 (Rev.)

Assembly	Rotor Assembly (1)	Brush Set (2)	Brush, Holder & Spring Assembly (3)	Slip Ring End Head Assembly (4) *	S.R.E. Bearing (5)	Drive End Head Assembly (6)	D.E. Bearing (7)
ALE-8105A - - - -	10-274 (ALE-2016)	11-62[c] (ALE-1012LS)	- - - -	12-237 (ALE-1002LS)	24-32 (X-3417)	14-175 (ALE-1003K)	25-1 (X-3416)
ALE-840[illegible],R (51-93)	90-2396[b]	- - - -	35-749[a] (ALU-1045BS)	90-2396[b]	90-2014[e]	"	"
ALE-8406G,RG - - - -	"	- - - -	"	"	"	"	"
ALE-840E,R (51-154	"	- - - -	35-750[a] (ALE-1045BS)	"	"	"	"
ALE-8420,R (51-222)	10-320 (ALE-2173S-1)	11-74 (ALE-1013AS)	35-749 (ALU-1045BS)	12-310 (ALK-1132BS-1)	"	"	"
ALE-8420G,RG - - - -	"	"	"	"	"	"	"
ALE-842[illegible],R (51-223)	"	"	35-750 (ALE-1045BS)	"	"	"	"

[*] 35-781 (GJC-498S) Cover Pkg. (10 Pcs.) Also available.
[a] 11-74(ALE-1013AS)Captive Brush & Spring Set also individually available for units already having this design. Earlier units must replace the Complete Brush Holder Assy. if Brushes or Springs are required.
[b] S.R.E.Head & Rotor Pkg. Complete Package must be used at time of first repair. Individual components, (See Back of Sheet #3 for contents of Pkg.) maybe replaced thereafter.
[c] Brush Set Only; Brush Spring Set 50-273(ALA-19S) also available.
[d] Slip Ring & Bearing Package, also included with Rotor.
[e] Bearing & Seal Package; also included with Rotor & S.R.E.Head Assy.

File in the
OF 92 PARTS BINDER

ALTERNATOR SECTION

ALE-8105 TO 8421R

Assembly	Stator Assembly (8)	Pos.Rectifier & Plate Assembly (9)	Negative Rectifier (Pkg.of 3) (10)	Term. Stud Package (11)	D.E. Retainer (12)	Back-Up Plate (13)	Br.Holder Cover Insulation (14)
ALE-8105A - - - -	13-167 (ALE-2008Z)	35-564 (ALE-1004)	35-757 (XA-944J5)	90-2359	35-29 (GR-32)	- - - -	- - - -
ALE-8406,R (51-93)	13-171 (ALE-2008AD)	35-763 (ALE-1054A)	"	90-2030	"	- - - -	- - - -
ALE-8406G,RG - - - -	"	"	"	"	"	- - - -	- - - -
ALE-8408,R (51-154)	"	"	"	"	"	- - - -	- - - -
ALE-8420,R (51-222)	"	"	"	"	"	- - - -	- - - -
ALE-8420G,RG - - - -	"	"	"	"	"	- - - -	- - - -
ALE-8421,R (51-223)	"	"	"	"	"	- - - -	- - - -

Assembly	Slip Ring End Cover (15)	Cover Stud Package (16)	"O" Ring Seal (17)	Eyelet Package (18)	Thru Bolt Package (19)	Nut & Washer Package (20)	Rotor Shaft Spacer (21)
ALE-8105A	35-507 (ALE-1062)	- - - -	- - - -	90-818	35-506 (ALA-20FS)	90-33	35-55 (ALD-21)
ALE-8406,R (51-93)	35-551 (ALU-1062A)	- - - -	- - - -	"	35-552 (ALA-20JS)	"	"
ALE-8406G,RG	"	- - - -	- - - -	"	"	"	"
ALE-8408,R (51-154)	"	- - - -	- - - -	"	"	"	"
ALE-8420,R (51-222)	"	- - - -	- - - -	"	"	"	"
ALE-8420G,RG	"	- - - -	- - - -	"	"	"	"
ALE-8421,R (51-223)	"	- - - -	- - - -	"	"	"	"

ALE-8105 TO 8421R

Assembly	Vent. Fan (2Pc.) (22)	Drive Pulley (23)	Regulator (24)
ALE-8105A - - - -	90-2241	34-400 (PU-672A)	- - - -
ALE-8406,R (51-93)	"	"	8-342 (VSF-7203S)
ALE-8406G,RG - - - -	"	"	8-5014 (FVR-4011A)
ALE-8408,R (51-154)	"	"	- - - -
ALE-8420,R (51-222)	"	"	8-342 (VSF-7203S)
ALE-8420G,RG - - - -	"	"	8-5014 (FVR-4011A)
ALE-8421,R (51-223)	"	"	- - - -

(b) Contents of S.R.E. Head & Rotor Package

90-2396	S.R.E. Head & Rotor Pkg.
90-2014	Bearing Pkg.
12-310 (ALK-1132BS-1)	Head Assy.,Slip Ring
10-320 (ALL-2173S-1)	Rotor