



# Service News

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## 1961 CHECKER MOTORS ELECTRICAL EQUIPMENT

NAME OF UNIT		SUPERBA "L" HEAD 6 CYL. ENG.	SUPERBA "O H V" 6 CYL. ENG.	TAXI "L" HEAD 6 CYL. ENG.	TAXI "O H V" 6 CYL. ENG.
DISTRIBUTOR		IGC-6002-IAC	IAT-4406	IGC-6002-IAC	IAT-4406
SERVICE COIL	12V	5-13	5-13	5-13	5-13
SERVICE COIL BRACKET		32-1	32-1	32-1	32-1
PRIMARY RESISTOR		32-20	32-20	32-20	32-20
GENERATOR	12V	GJP-7103A	GJP-7103A	GHM-6016S	GHM-6016S
REGULATOR	12V	8-88	8-88	8-56	8-56
ALTERNATOR	12V	-----	-----	ALD-5001	ALD-5001
REGULATOR	12V	-----	-----	8-105	8-105
STARTING MOTOR	12V	MDL-6023 ①	MDL-6023 ①	MDL-6023 ①	MDL-6023 ①
STARTING SWITCH	12V	-----	-----	15-66 ③	15-66 ③
STARTING MOTOR	12V	MDU-7002 ②	MDU-7002 ②	MDU-7002 ②	MDU-7002 ②
STARTING SWITCH	12V	-----	-----	15-66 ③	15-66 ③

- ① Standard Transmission
- ② Automatic Transmission
- ③ All Cabs with Battery in Trunk.

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PARTS AND PERFORMANCE DATA

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DISTRIBUTORS	IAT-4406	IGC-6002-IAC	GENERATORS	GHM-6016S	GJP-7103A	ALTERNATOR	ALD-5001
Cap	3-3	3-23	Armature	10-74	10-53	Rotor Assembly	10-98
Rotor	4-23	4-19	Brush Set	11-15	11-15	Head Assy. Slip Ring End	12-60
Contact Set	1-47	1-22	C. E. Head Assy.	12-16	12-37	Brush Spring	50-97
Condenser	2-32 ①	2-32 ①	C. E. Bearing	X-295	24-9	Brush Set	11-34
Breaker Plate	7-47	7-66	Brush Arm	35-17	35-27	D. E. Head Assy.	14-64
Bearing	24-8 ②	24-8 ②	Brush Spring	50-14	50-22	Stator Assy.	13-49
Spring Set	50-53	IGB-222S	Field Coil Assy.	13-19	13-29	Ball Bearing	X-3416
Vacuum Chamber	6-1	-----	D. E. Head Assy.	14-11	14-39	Roller Bearing	24-32
Cam	29-82	29-51	D. E. Bearing	X-295	X-295A	Drive Pulley	ALD-22
			Pulley	34-46	34-116	Vent. Fan	13-125
Rotation	L.H.	L.H.	Volts	12	12	Volts	12
Contact Gap	.020"	.020"	Rotation	CW	CW	Rotation	CW
Cam Dwell	39°	39°	Brush Spring Tension - Ozs.	35-53	18-36	Ground Polarity	Neg.
Cond. Capacity - Mfds.	.18-.28	.18-.28	Ground Polarity	Neg.	Neg.	Rotor Fld. Draw - Volts	10
Breaker Arm Tension - Ozs.	17-22	17-22	Field Draw - Volts	10	10	Amps.	2.3-2.5
End Play	.003"- .010"	.003"- .010"	Amps.	1.1-1.3	1.6-1.7	Output - Volts	14.2
Side Play	.005" max.	.005" max.	Motoring Draw - Volts	10	10	Min. Amps.	38
Gov. Adv. - Start	0°-250 RPM	0°-275 RPM	Amps.	3.0-3.5	3.1-3.5	RPM	1750
Intermediate	8°-730 RPM	5°-1060 RPM	Output - Volts	15	15		
Full	16.5°-1250 RPM	9°-1685 RPM	Amps.	30	35		
Vac. Adv. - Start	0°-10"	-----	Max. RPM	1500	2600		
Full	5°-15"	-----					

① 2-34 Lead Type Condenser can also be used.

② 2 Used.

STARTING MOTORS	MDL-6023	MDU-7002	REGULATORS	VBO-4201D (8-56)	VBO-6201A (8-88)	VBT-6201A (8-105)
Armature	16-70	16-81	Volts	12	12	12
Brush Set	17-21	17-39	Ground Polarity	Pos. or Neg.	Pos. or Neg.	Neg.
C. E. Head Assy.	19-32	19-38	Resistor - R1	40 ohms	55 ohms	10 ohms
Brush Spring	50-1	50-65	R2	60 ohms	40 ohms	20 ohms
Field Coil Package	20-15	20-54	C. B. Shunt Winding	128-142 ohms	128-142 ohms	-----
Bendix Drive	EBB-31	EBB-73	V. R. Winding	52-58 ohms	52-58 ohms	52-58 ohms
Pinion Housing	21-89	PS-1389	C. B. Air Gap	.025"- .027"	.025"- .027"	-----
D. E. Bearing	24-23	24-4	C. B. Contact Gap	.015" min.	.015" min.	-----
Intermediate Bearing	36-9	36-8	C. B. Closes	12.4-13.3 volts	12.4-13.3	-----
			C. B. Opens	3-5 amps.	3-5 amps.	-----
			V. R. Air Gap	.048"- .052"	.048"- .052"	.034"- .038" ③
			V. R. Operates - 50° F.	14.7	14.7	14.3 ④
			80° F.	14.5	14.5	14.1 ④
			110° F.	14.3	14.3	13.9 ④
			C. R. Air Gap	.048"- .052"	.048"- .052"	-----
			C. R. Operates - 50° F.	32	37	-----
			70° F.	30	35	-----
			90° F.	28	33	-----
Volts	12	12				
Rotation	CW	CW				
Brush Spring Tension - Ozs.	31-47	31.47				
Pinion Position	29/32"-1-1/32"	31/32"-1-3/32"				
End Play	.005" min.	.005" min.				
Shunt Fld. Draw - 10V.	8.2-9.6 amps.	4.4-5.1 amps.				
No Load - Volts	10	10				
Max. Amps.	60	50				
Min. RPM	3200	5300				
Stall Torque - Volts	4	4				
Max. Amps.	225	280				
Min. Lbs. Ft.	6	6.2				

③ Voltage regulator point gap should be .010".

④ Figure given is when operating on upper contact; lower contact operation should be between .1 and .3 volt higher.