

SECTION IV—GENERATING SYSTEM

1. GENERATOR

The pressed on pulley can be removed with puller Tool C-3615, but installing a new pulley requires that certain precautions be taken. The end of the shaft at the commutator end must be supported when pressing

on a new pulley. This can be done by removing the cap or cover found on the rear casting at the bearing and supporting the shaft at this point. It is very important that the shaft be supported otherwise internal parts will become damaged and cause early failure of the unit.

GENERATOR APPLICATION

Car Model		6 Cyl. Powerflow Six	V-8 (318 cu. in.) Fury V-800	V-8 (361 cu. in.) Golden Commando
Generator	Standard	GJM-8001A	GJM-8001A	GJM-8001A
	Air Conditioning	—	GJM-8001A	GJM-8001A
	Dual Air Conditioning	—	GJM-8004A	GJM-8004A
	Air Conditioning (Heavy)	—	—	GGA-6007A
	Heavy Duty	GGA-6001AC	GGA-6001AC	GGA-6003

DATA AND SPECIFICATIONS

Generator	GGA Models	GJM Models	GJM Models
Rotation	Clockwise at Drive End	Clockwise at Drive End	Clockwise at Drive End
Voltage	12	12	12
Rated Output	40 Amps	30 Amperes	35 Amperes
Control	Vibrating Regulator	Vibrating Regulator	Vibrating Regulator
Ground Polarity	Negative	Negative	Negative
Poles	2	2	2
Brushes	2	2	2
Brush Spring Tension	34 to 41 oz.	35 to 53 oz.	18 to 36 oz.
Bearings End Play	Ball—Both Ends .003" to .010"	Ball & Sleeve .003" to .010"	Ball & Sleeve .003" to .010"
Field Coil Draw (Arm. to Field Terminal)	1.2 to 1.3 Amps at 10 Volts	1.2 to 1.3 Amps at 10 Volts	1.4 to 1.7 Amps at 10 Volts
Motoring Draw	2.9 to 3.4 Amps at 10 Volts	3.3 to 3.8 Amps at 10 Volts	3.8 to 4.3 Amps at 10 Volts
Output Tests (at 70°F)	10 Amps, 18.4 Volts at 1020 Max. rpm	10 Amps, 13.5 Volts at 1040 Max. rpm	10 Amps, 13.4 Volts at 1480 Max. rpm
	40 Amps, 15 Volts at 1800 Max. rpm	30 Amps, 15 Volts at 1800 Max. rpm	35 Amps, 15 Volts at 2400 Max. rpm

**GENERATOR REGULATOR
DATA AND SPECIFICATIONS**

Regulator Model	VRX-6301A (For 35 Amps)	VRX-6201A (For 30 Amps)	VAT-6201 (For 40 Amps)																																																	
Volts	12	12	12																																																	
Ground Polarity	Negative	Negative	Negative																																																	
Resistors Marked 60 Marked 38 Marked 30	34.5 to 45 ohms	55.0 to 70.0 ohms 34.5 to 42.0 ohms 28.0 to 34.5 ohms																																																		
Voltage Regulator Voltage Winding Resistance Armature Air Gap	43.7 to 49.3 ohms .048 to .052 in. Contacts closed with high limit gauge installed. Contacts open with low limit gauge installed. Gauge on contact side and next to brass stop pin.																																																			
Voltage Setting (Operating Voltage) After 15 minutes run at 7 Amps. Temperature in degrees F. Maximum Setting Minimum Setting	<table border="1"> <thead> <tr> <th></th> <th>50°</th> <th>60°</th> <th>70°</th> <th>80°</th> <th>90°</th> <th>100°</th> <th>110°</th> <th>120°</th> </tr> </thead> <tbody> <tr> <td>Maximum Setting</td> <td>15.04</td> <td>14.97</td> <td>14.90</td> <td>14.83</td> <td>14.76</td> <td>14.69</td> <td>14.01</td> <td>14.54</td> </tr> <tr> <td>Minimum Setting</td> <td>14.42</td> <td>14.36</td> <td>14.30</td> <td>14.23</td> <td>14.66</td> <td>14.09</td> <td>14.62</td> <td>13.94</td> </tr> </tbody> </table>				50°	60°	70°	80°	90°	100°	110°	120°	Maximum Setting	15.04	14.97	14.90	14.83	14.76	14.69	14.01	14.54	Minimum Setting	14.42	14.36	14.30	14.23	14.66	14.09	14.62	13.94																						
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Current Limiting Regulator Armature Air Gap	.048 to .052 in. Contacts closed with high-limit gauge installed. Contacts open with low limit gauge installed. Gauge on contact side and next to brass stop pin.																																																			
Current Setting (After Voltage Regulator Setting) Temperature (F.)	<p>Operating Amperage after 15 min. at 7 amperes. Then followed with a 15 min. run at rated current regulator setting (below 13.5 volts).</p> <table border="1"> <thead> <tr> <th></th> <th>Max.</th> <th>Min.</th> <th>Max.</th> <th>Min.</th> <th>Max.</th> <th>Min.</th> </tr> </thead> <tbody> <tr> <td>50°.....</td> <td>39</td> <td>35</td> <td>35</td> <td>31</td> <td>46</td> <td>42</td> </tr> <tr> <td>60°.....</td> <td>38</td> <td>34</td> <td>33</td> <td>29</td> <td>45</td> <td>41</td> </tr> <tr> <td>70°.....</td> <td>37</td> <td>33</td> <td>32</td> <td>28</td> <td>44</td> <td>40</td> </tr> <tr> <td>80°.....</td> <td>36</td> <td>32</td> <td>31</td> <td>27</td> <td>43</td> <td>39</td> </tr> <tr> <td>90°.....</td> <td>35</td> <td>31</td> <td>30</td> <td>26</td> <td>42</td> <td>38</td> </tr> <tr> <td>100°.....</td> <td>34</td> <td>30</td> <td>29</td> <td>25</td> <td>41</td> <td>37</td> </tr> </tbody> </table>				Max.	Min.	Max.	Min.	Max.	Min.	50°.....	39	35	35	31	46	42	60°.....	38	34	33	29	45	41	70°.....	37	33	32	28	44	40	80°.....	36	32	31	27	43	39	90°.....	35	31	30	26	42	38	100°.....	34	30	29	25	41	37
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Cut-Out Relay: Voltage Winding Resistance Air Gap, Contacts open (Measure gap as near to hinge as possible) Point Gap (Min.) Contacts Close (Volts) Contacts Open (after charge of 10 amps.) Discharge amps.	<p>107 to 121 ohms .031 to .034 in. .015 in. 12.6 to 13.6 volts 8.2 to 9.3 volts 0 to 6 amps. (discharge)</p>																																																			