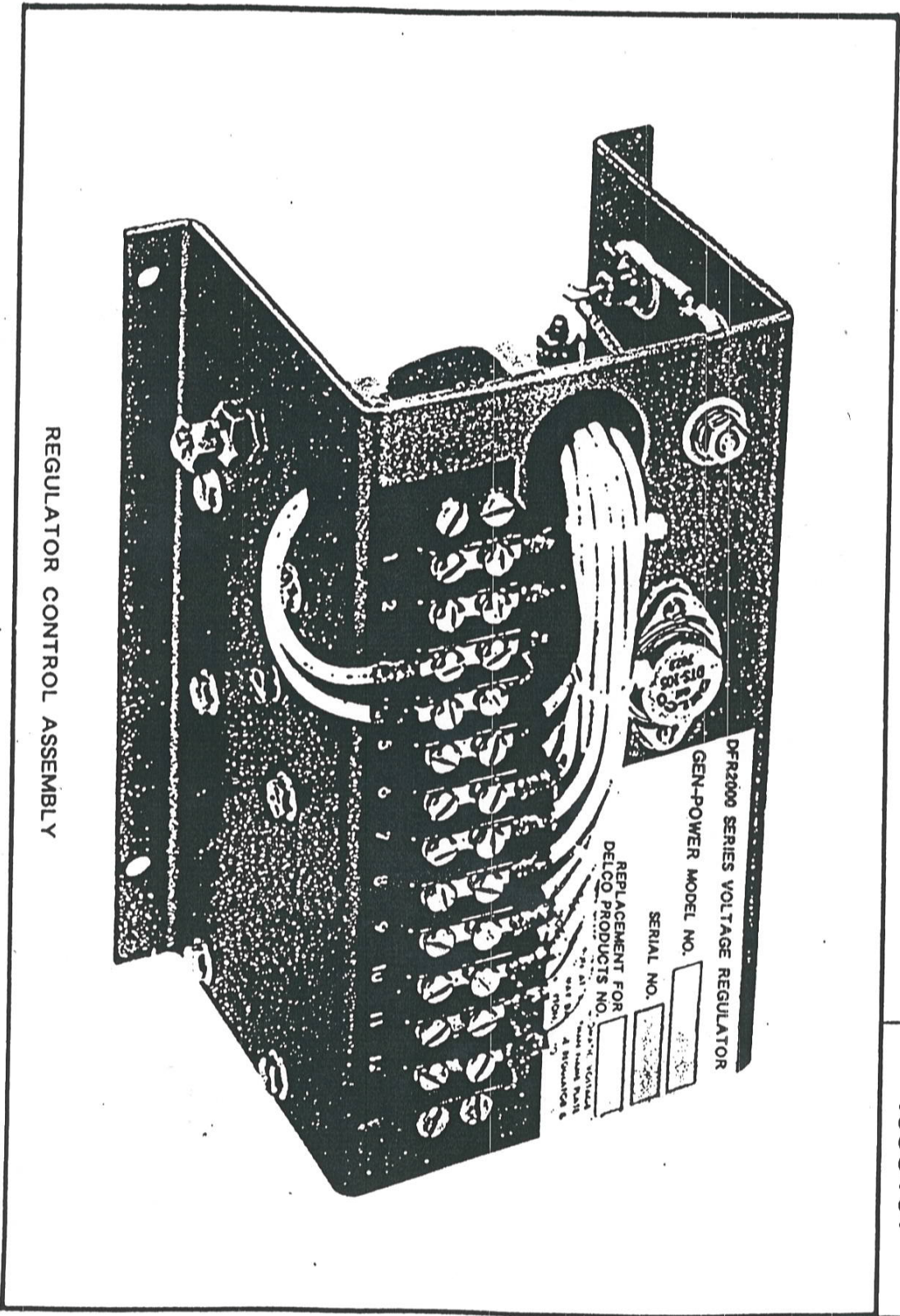


4953167

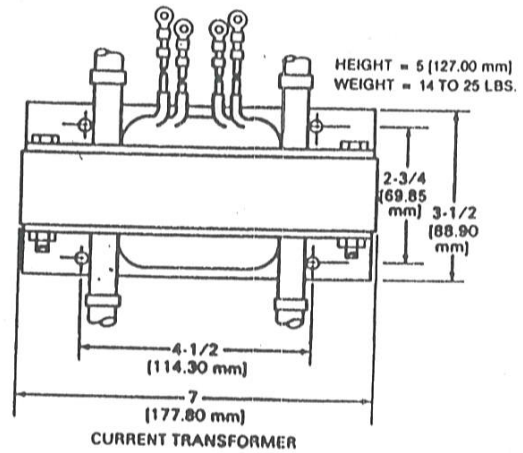
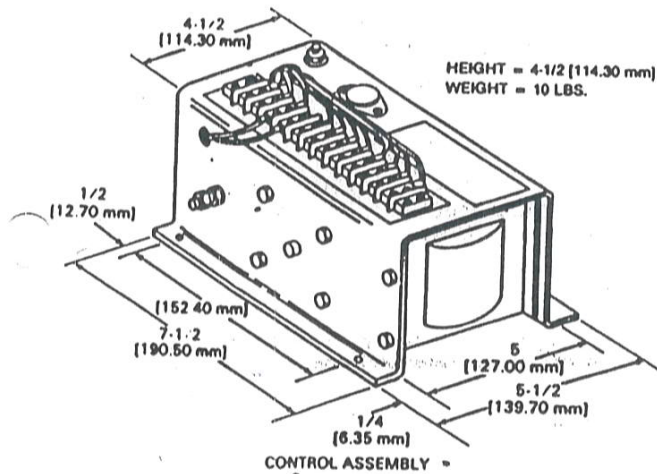


REGULATOR CONTROL ASSEMBLY

GEN-POWER DFR2000 SERIES VOLTAGE REGULATOR

2407
4407

GEN POWER DFR SERIES VOLTAGE REGULATOR



**DFR SERIES VOLTAGE REGULATOR IS DESIGNED
FOR USE ON DELCO PRODUCTS DUAL FIELD,
AC BRUSHLESS GENERATORS.**

PERFORMANCE

- ±1% Voltage Regulation
- Response to Load Change—Less Than 16 Milliseconds
- ±10% Generator Output Voltage Range Adjustment
- Combination Single-Phase Sensing and Exciter Input Through Specially Designed Isolation Transformer—Voltages Listed Below (See Models)

OUTPUT POWER	
Voltage-Continuous	12 VDC
Current-Continuous	6.5 A
Minimum Field Res.	0.8 Ohms
Maximum Field Res.	1.5 Ohms

BENEFITS

- Loss of Sensing Protection
- 50/60 Hz Operation
- Reliable Solid State Voltage Build-Up
- Superb Motor Starting Ability
- Anti-Hunt Control
- Built-In Paralleling Provisions
- Elimination of Mechanical Failure
- Vibration Resistant
- Environmental Protection
- Moisture-Proof Conformal Coating

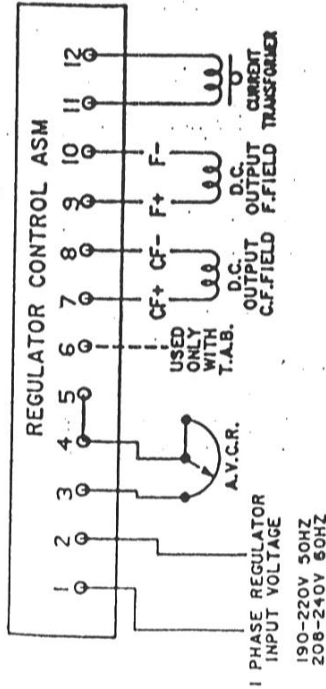
THE H6212A CAN BE USED TO REPLACE H50, H57 AND H60 REGULATOR CONTROL ASSEMBLY ON DUAL FIELD GENERATORS WHERE 208 THRU 240 VOLTS AT 60 HZ OR 190 THRU 220 VOLTS AT 50 HZ IS AVAILABLE.

WHEN AN H60 SERIES REGULATOR CONTROL ASSEMBLY IS BEING REPLACED, FROM THE OLD REGULATOR TO THE H6212A, REFER TO THE CONNECTION DIAGRAMS SUPPLIED WITH THE GENERATOR, REGULATOR AND PANEL ASSEMBLY FOR ADDITIONAL INFORMATION.

WHEN AN H50 OR H57 SERIES REGULATOR CONTROL ASSEMBLY IS BEING REPLACED, CONNECT AS FOLLOWS:

1. 3 PHASE INPUT TO TERM. BD.(T.B.)#1, #2, & #3
2. A.V.C.R. CONNECTED TO T.B.#4 & #5
3. THE PARALLELING KIT INPUT IS TO T.B.#5 & #6
4. IF USED, THE T.A.B. TRANSFORMER CONTROL WINDING CONNECTED BETWEEN T.B.#10 & #13

1. 1 PHASE INPUT TO T.B.#1 & #2
2. A.V.C.R. CONNECTED TO T.B.#3 & #4
3. THE PARALLELING KIT INPUT IS TO T.B.#4 & #5
4. IF USED, THE T.A.B. TRANSFORMER CONTROL WINDING CONNECTED BETWEEN T.B.#6 & #9



- NOTES:
1. FOR PARALLEL OPERATION, BE SURE TO REMOVE THE JUMPER WHICH IS LOCATED BETWEEN T.B.#4 & #5
 2. RESISTOR ASSEMBLY NOT REQUIRED WHEN REPLACING H50 & H60 SERIES REGULATORS.

CAUTION

THE MAIN RECTIFIER BRIDGE WILL BE DAMAGED IF THE GENERATOR EXCITER FIELD IS FLASHED WRONG.

USE AN UNGROUNDED BATTERY FOR FLASHING
 PROPER FLASHING IS:
 BATTERY (+) ON REGULATOR TERMINAL (7) AND (-) ON TERMINAL (8).

GENERATORS OPERATING WITH AUTOMATIC VOLTAGE REGULATORS SHOULD NOT BE RUN AT LESS THAN NAMEPLATE SPEED. REDUCED SPEEDS MAY DAMAGE BOTH REGULATOR AND GENERATOR.

THE FOLLOWING ITEMS APPLY UNLESS OTHERWISE SPECIFIED:
 THESE PRACTICES, METHODS AND PROCEDURES ARE SUBJECT TO CHANGE WITHOUT NOTICE.
 THE FOLLOWING PRACTICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

DIMENSIONS: SPECIFIC DIMENSIONS
 FINISH: AS SPECIFIED
 MATERIAL: AS SPECIFIED
 TOLERANCES: AS SPECIFIED
 SURFACE: AS SPECIFIED
 TOLERANCES: AS SPECIFIED
 SURFACE: AS SPECIFIED
 TOLERANCES: AS SPECIFIED
 SURFACE: AS SPECIFIED

2803276

TOLERANCES

2	FOR 1 DECIMAL	3	FOR 3 DECIMALS
3	FOR 2 DECIMALS	4	FOR 4 DECIMALS
4	FOR 3 DECIMALS	5	FOR 5 DECIMALS
5	FOR 4 DECIMALS	6	FOR 6 DECIMALS

MODEL	FREQUENCY	SENSING VOLTAGE
DFR2407	60	208-240
	50	190-220

CONTROL ASSEMBLY ONLY - TO REPLACE
 DELCO PRODUCTS TWO-TRANSISTOR AND THREE-
 TRANSISTOR REGULATOR CONTROL ASSEMBLY AND
 H60000, H57000, & H50000 SERIES REGULATOR
 CONTROL ASSEMBLIES.

MODEL DFR2407 IS A DIRECT REPLACEMENT
 FOR DELCO PRODUCTS MODEL H6212A

PERFORMANCE

VOLTAGE REGULATION

The DFR SERIES voltage regulation is $\pm 1\%$, R.M.S., including variations in all of these factors within the limits shown:

FACTOR	LIMITS
Load	No Load to Full Load
Power Factor	0.8 (lag) to 1.0 P.F.
Speed	$\pm 5\%$
Ambient Temperature	$\pm 10^\circ\text{C}$ (within the band, -40°C to $+60^\circ\text{C}$.)

RANGE OF ADJUSTMENT

DFR2407 used with a broad range generator (190 to 220 volt, 60 Hz or 208 to 240 volt, 60 Hz) will allow a voltage adjustment from 10% below the low value to 10% above the high value of the range. Other models are available for different voltage systems.

REGULATOR RESPONSE

DFR2407 initiates a change in field current within 16 milliseconds after a load change.

BENEFITS

LOSS OF SENSING PROTECTION

This regulator is designed to inhibit and/or reduce exciter power output in the event of broken wires, loose connections, etc., and thus insure generator output voltage will not "build to ceiling."

STATIC VOLTAGE BUILD-UP CIRCUIT

Generator voltage build-up is initiated by the residual voltage of the generator and is achieved by a static circuit. No external power from a battery is required for the regulator to force the generator to rated voltage.

SUPERB MOTOR STARTING ABILITY

Instantaneous response coupled with a high energy capability and combined with the excellent recovery ability of the Delco generator provides superb motor starting ability.

EASE OF INSTALLATION AND OPERATION

DFR2407 series regulator has no customer-required adjustment other than the Automatic Voltage Control rheostat (AVCR). Just connect the control assembly and current transformer to the generator circuit and set the voltage with the AVCR while the generator is operating at rated speed.

ANTI-HUNT CIRCUITRY

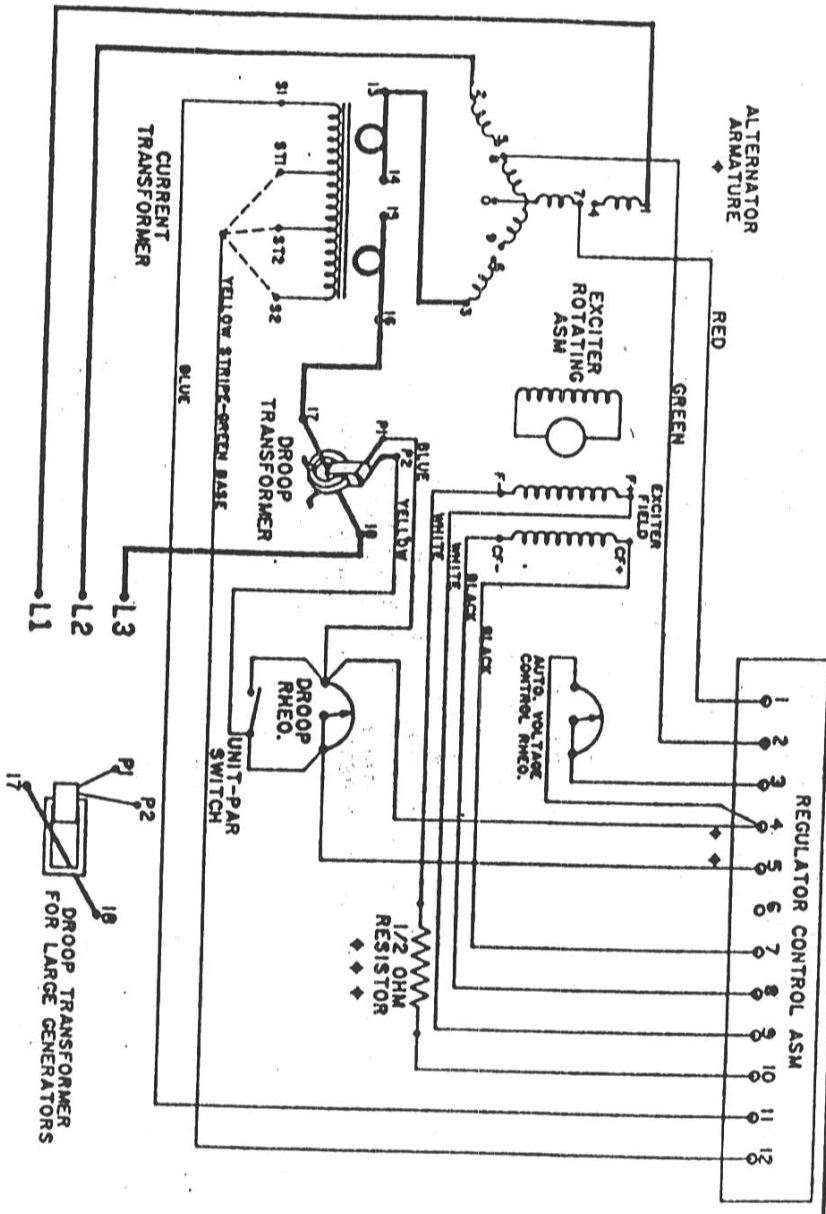
Advanced technology anti-hunt circuitry is used to gain complete control of the generator-regulator transient system characteristics.

BUILT-IN PARALLELING PROVISIONS

The sensing circuit is designed to facilitate parallel operation using either reactive droop or reactive differential (Cross Current) compensation methods. All that is required is a simple paralleling kit consisting of a droop transformer and a droop rheostat.

COMPLETE SOLID STATE COMPONENTS

Completely static design of the voltage regulator eliminates wear and tear of moving parts. No relays, vibrating contacts, or other mechanical components are used. Components that "wear out" are no longer a consideration, because of the completely static circuitry.



PARALLEL CONNECTIONS

SYSTEM	GENERATOR-CURRENT TRANSFORMER CONNECTIONS		
	VOLTAGE	CONNECT TOGETHER	CONNECT TOGETHER
3 PHASE Y	HIGH	1 2 16	4-7 5-8 14-15
	LOW	1-7 14-15	3-13 6-9 16-17

NON-PARALLEL CONNECTIONS

SYSTEM	GENERATOR-CURRENT TRANSFORMER CONNECTIONS		
	VOLTAGE	CONNECT TOGETHER	CONNECT TOGETHER
3 PHASE Y	HIGH	1 2 16	3-13 6-9 14-15
	LOW	1-7 14-15	4-5-6-0

- ◆ ALTERNATOR:
1. FOR ALTERNATORS HAVING TWO OR MORE POWER LEADS IN PARALLEL FROM THE END OF EACH PHASE WINDING, TREAT ALL LEADS WITH THE SAME NUMBERS AS THOUGH THEY WERE A SINGLE CONDUCTOR AND CONNECT PER CHART.
 2. THE NEUTRAL LEAD MAY BE USED GROUNDED OR UNGROUNDED AS PER APPLICATION.
- ◆ FOR NON-PARALLEL OPERATION, REGULATOR TERMINAL BOARD 4 & 5 MUST BE CONNECTED TOGETHER.
- ◆ RESISTOR ASSEMBLY USED ONLY WHEN REPLACING A TWO TRANSISTOR VOLTAGE REGULATOR CONTROL ASSEMBLY.

THE FOLLOWING ITEMS APPLY UNLESS OTHERWISE SPECIFIED:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

RESISTORS ARE TO BE OF THE TYPE SPECIFIED IN THE DRAWING.

WIRING IS TO BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE REGULATIONS.

WIRING IS TO BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE REGULATIONS.

WIRING IS TO BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE REGULATIONS.

TOLERANCES

RESISTORS: PER 1 MICROWATT, PER 2 MICROWATTS, PER 3 MICROWATTS

RESISTORS: PER 1 MICROWATT, PER 2 MICROWATTS, PER 3 MICROWATTS

RESISTORS: PER 1 MICROWATT, PER 2 MICROWATTS, PER 3 MICROWATTS

NO.	2803277	
DATE	REV	REVISION RECORD
NO.		
2803277		

MATERIAL SPEC	PAPER
NAME	CONNECTION DIAGRAM
SIZE	PART NO.
A2	2803277

DFR2407 INSTALLATION INSTRUCTIONS FOR TWO TRANSISTOR REGULATOR CONTROL ASSEMBLY REPLACEMENT

REFER TO CONNECTION DIAGRAM 2803277.

THE CURRENT TRANSFORMER OF THE 2T REGULATOR IS USED WITH THE DFR-2407 REGULATOR. ALSO, IF THE GENERATOR IS USED IN PARALLEL OPERATION, THE PARALLELING COMPONENTS OF THE 2T REGULATOR ARE TO BE USED.

THE 1/2 OHM RESISTOR ASM IS USED IN SERIES WITH THE 'F' FIELD.

IF THE GENERATOR IS USED FOR NON-PARALLELING OPERATION, DO THE FOLLOWING:

1. IDENTIFY AND REMOVE THE LEADS FROM THE 2T REGULATOR NINE POSITION TERMINAL BOARD. (THE LEADS ON FACTORY-INSTALLED FOOT-MOUNTED UNITS ARE COLOR CODED).
2. REMOVE THE AUTOMATIC VOLTAGE CONTROL RHEOSTAT.
3. CONNECT A LEAD FROM GENERATOR LEAD NO.7 TO DFR-2407 REGULATOR TERMINAL BOARD NO.1 (RED LEAD).
4. CONNECT A LEAD FROM GENERATOR LEAD NO.8 TO DFR-2407 REGULATOR TERMINAL BOARD NO.2 (GREEN LEAD).
5. REMOVE THE WHITE LEAD FROM GENERATOR NEUTRAL AND DISCARD. REINSULATE JOINT.
6. CONNECT A LEAD FROM EXCITER FIELD CF+ TO DFR-2407 REGULATOR TERMINAL BOARD NO.7 (BLACK LEAD).
7. CONNECT THE LEAD FROM EXCITER FIELD CF- TO DFR-2407 REGULATOR TERMINAL BOARD NO.8 (BLACK LEAD).
8. CONNECT THE LEAD FROM EXCITER FIELD F+ TO DFR-2407 REGULATOR TERMINAL BOARD NO.9 (WHITE LEAD).
9. CONNECT THE LEAD FROM EXCITER FIELD F- TO ONE SIDE OF THE 1/2 OHM RESISTOR ASSEMBLY.
10. CONNECT THE OTHER SIDE OF THE 1/2 OHM RESISTOR ASSEMBLY TO THE DFR-2407 REGULATOR TERMINAL BOARD NO.10.
11. CONNECT A LEAD FROM THE CURRENT TRANSFORMER SECONDARY WINDING S1 TO THE DFR-2407 REGULATOR TERMINAL BOARD NO.11.
12. CONNECT A LEAD FROM THE CURRENT TRANSFORMER SECONDARY WINDING ST1 OR ST2 OR S2 (SAME CONNECTION THAT WAS USED WITH THE 2T REGULATOR) TO THE REGULATOR TERMINAL BOARD NO.12.

IF THE GENERATOR IS USED FOR PARALLEL OPERATION, CONNECT THE DROOP CIRCUIT AS FOLLOWS:

13. REMOVE JUMPER BETWEEN DFR-2407 REGULATOR TERMINAL BOARD NO.'S 4 & 5.
 14. CONNECT LEAD FROM DROOP RHEOSTAT AND DROOP TRANSFORMER SECONDARY LEAD P1 TO H6212A TERMINAL BOARD NO.4.
 15. CONNECT LEAD FROM THE OTHER SIDE OF THE DROOP RHEOSTAT AND DROOP TRANSFORMER SECONDARY LEAD P2 TO DFR-2407 TERMINAL BOARD NO.5.
- NOTE: IF A UNIT PARALLELING SWITCH IS USED, CONNECT THE SWITCH TERMINALS ACROSS TB 4 AND TB 5 OF THE DFR-2407 REGULATOR.

CAUTION

THE MAIN RECTIFIER BRIDGE WILL BE DAMAGED IF THE GENERATOR EXCITER FIELD IS FLASHED WRONG. USE AN UNGROUNDED BATTERY FOR FLASHING. PROPER FLASHING IS:
 BATTERY (+) ON REGULATOR TERMINAL (7) AND (-) ON TERMINAL (8).
 GENERATORS OPERATING WITH AUTOMATIC VOLTAGE REGULATORS SHOULD NOT BE RUN AT LESS THAN NAMEPLATE SPEED. REDUCED SPEEDS MAY DAMAGE BOTH REGULATOR AND GENERATOR.

DATE	REV	REVISION RECORD	AUTH	CHK
1988		ISSUED	8383	
			R	

NO. 2803278

THE FOLLOWING ITEMS MEET UNLESS OTHERWISE SPECIFIED:

- RESISTORS: GENERAL PURPOSE
- WIRE: #16 AWG
- WIRE: #18 AWG
- WIRE: #20 AWG
- WIRE: #22 AWG
- WIRE: #24 AWG
- WIRE: #26 AWG
- WIRE: #28 AWG
- WIRE: #30 AWG
- WIRE: #32 AWG
- WIRE: #34 AWG
- WIRE: #36 AWG
- WIRE: #38 AWG
- WIRE: #40 AWG
- WIRE: #42 AWG
- WIRE: #44 AWG
- WIRE: #46 AWG
- WIRE: #48 AWG
- WIRE: #50 AWG
- WIRE: #52 AWG
- WIRE: #54 AWG
- WIRE: #56 AWG
- WIRE: #58 AWG
- WIRE: #60 AWG
- WIRE: #62 AWG
- WIRE: #64 AWG
- WIRE: #66 AWG
- WIRE: #68 AWG
- WIRE: #70 AWG
- WIRE: #72 AWG
- WIRE: #74 AWG
- WIRE: #76 AWG
- WIRE: #78 AWG
- WIRE: #80 AWG
- WIRE: #82 AWG
- WIRE: #84 AWG
- WIRE: #86 AWG
- WIRE: #88 AWG
- WIRE: #90 AWG
- WIRE: #92 AWG
- WIRE: #94 AWG
- WIRE: #96 AWG
- WIRE: #98 AWG
- WIRE: #100 AWG

TOLERANCES	FOR 1 DECIMAL	FOR 2 DECIMALS	FOR 3 DECIMALS	FOR FRACTIONS
	±	±	±	±

NAME: INSTRUCTION SHEET
 SIZE: PAAT NO. A2
 NO.: 2803278

DFR2407

INSTALLATION INSTRUCTIONS FOR THREE TRANSIST REGULATOR CONTROL ASSEMBLY REPLACEMENT

THE 1/2 OHM RESISTOR ASSEMBLY IS NOT REQUIRED WHEN REPLACING 3T REGULATORS. REFER TO CONNECTION DIAGRAM 2803277.

THE CURRENT TRANSFORMER OF THE 3T REGULATOR IS USED WITH THE DFR-2407 REGULATOR. ALSO, IF THE GENERATOR IS USED IN PARALLEL OPERATION, PART OF THE PARALLELING COMPONENTS OF THE 3T REGULATOR ARE USED.

IN CERTAIN SPECIALIZED APPLICATIONS OF THE 3T REGULATOR, THESE INSTRUCTIONS MAY REQUIRE SEPARATE INTERPRETATION. IF SWITCHES, MANUAL CONTROL COMPONENTS, OR SPECIAL CIRCUITRY ARE INVOLVED, CONTACT DELCO PRODUCTS FOR ADDITIONAL INSTRUCTIONS.

IF THE GENERATOR IS USED FOR NON-PARALLEL OPERATION, DO THE FOLLOWING:

1. IDENTIFY AND REMOVE THE LEADS FROM THE 3T REGULATOR TWELVE POSITION TERMINAL BOARD. (THE LEADS ON FACTORY-INSTALLED FOOT-MOUNTED UNITS ARE COLOR CODED).
2. REMOVE THE ORIGINAL AUTOMATIC VOLTAGE CONTROL RHEOSTAT AND DISCARD.
3. REMOVE THE RELAY AND BUILD-UP RESISTOR ASSEMBLIES AND DISCARD.
4. CONNECT A LEAD FROM GENERATOR LEAD NO.7 TO DFR-2407 REGULATOR TERMINAL BOARD NO.1 (RED LEAD).
5. CONNECT A LEAD FROM GENERATOR LEAD NO.8 TO DFR-2407 REGULATOR TERMINAL BOARD NO.2 (GREEN LEAD).
6. REMOVE THE YELLOW LEAD FROM GENERATOR LEAD NO.9 AND DISCARD. REINSULATE JOINT.
7. CONNECT A LEAD FROM EXCITER FIELD CF+ TO DFR-2407 REGULATOR TERMINAL BOARD NO.7 (BLACK LEAD).
8. CONNECT THE LEAD FROM EXCITER FIELD CF- TO DFR-2407 REGULATOR TERMINAL BOARD NO.8 (BLACK LEAD).
9. CONNECT THE LEAD FROM EXCITER FIELD F+ TO DFR-2407 REGULATOR TERMINAL BOARD NO.9 (WHITE LEAD).
10. CONNECT THE LEAD FROM EXCITER FIELD F- TO DFR-2407 REGULATOR TERMINAL BOARD NO.10 (WHITE LEAD).
11. CONNECT A LEAD FROM THE CURRENT TRANSFORMER SECONDARY WINDING S1 TO THE DFR-2407 REGULATOR TERMINAL BOARD NO.11 (BLUE LEAD)
12. CONNECT A LEAD FROM THE CURRENT TRANSFORMER SECONDARY WINDING ST1 OR ST2 OR S2 (SAME CONNECTION THAT WAS USED WITH THE 3T REGULATOR) TO THE REGULATOR TERMINAL BOARD NO.12. (YELLOW STRIPE-GREEN BASE)

IF THE GENERATOR IS USED FOR PARALLEL OPERATION, MAKE THE ADDITIONAL DROOP CIRCUIT CONNECTIONS AS FOLLOWS:

NOTE: ONLY ONE OF THE TWO DROOP RHEOSTATS AND DROOP TRANSFORMERS OF THE 3T REGULATOR ARE TO BE USED WITH THE DFR-2407

13. REMOVE THE JUMPER BETWEEN TERMINAL BOARD NO.'S 4 & 5 OF THE DFR-2407 REGULATOR.
14. REMOVE THE PRIMARY AND SECONDARY LEADS FROM BOTH DROOP TRANSFORMERS. RECORD THE NUMBER OF PRIMARY TURNS.
15. REMOVE THE WIRES FROM THE DROOP RHEOSTATS.
16. PASS LINE 3 POWER LEAD THROUGH ONLY ONE OF THE DROOP TRANSFORMERS. USING THE SAME NUMBER OF TURNS AS PREVIOUSLY USED BY LINE 3. MAKE SURE THAT THE LOAD SIDE OF LINE IS ON THE SIDE OF THE DROOP TRANSFORMER THAT HAS TWO MOUNTING BRACKETS.
17. CONNECT A LEAD FROM P1 OF THE DROOP TRANSFORMER TO THE LEFT HAND SIDE (BACK VIEW) OF ONE DROOP RHEOSTAT AND TO TB 4 OF THE DFR-2407 REGULATOR.
18. CONNECT A LEAD FROM P2 OF THE DROOP TRANSFORMER TO THE CENTER AND RIGHT SIDE (BACK VIEW) OF THE DROOP RHEOSTAT AND TO TB 5 OF THE DFR-2407 REGULATOR.

NOTE: IF A UNIT PARALLELING SWITCH IS USED, CONNECT THE SWITCH TERMINALS ACROSS TB 4 AND TB 5 OF THE DFR-2407 REGULATOR.

CAUTION

THE MAIN RECTIFIER BRIDGE WILL BE DAMAGED IF THE GENERATOR EXCITER FIELD IS FLASHED WRONG.

"USE AN UNGROUNDED BATTERY FOR FLASHING"

PROPER FLASHING IS:
BATTERY (+) ON REGULATOR TERMINAL (7) AND (-) ON TERMINAL (8).

GENERATORS OPERATING WITH AUTOMATIC VOLTAGE REGULATORS SHOULD NOT BE RUN AT LESS THAN NAMEPLATE SPEED. REDUCED SPEEDS MAY DAMAGE BOTH REGULATOR AND GENERATOR.

PART NO. 2803279

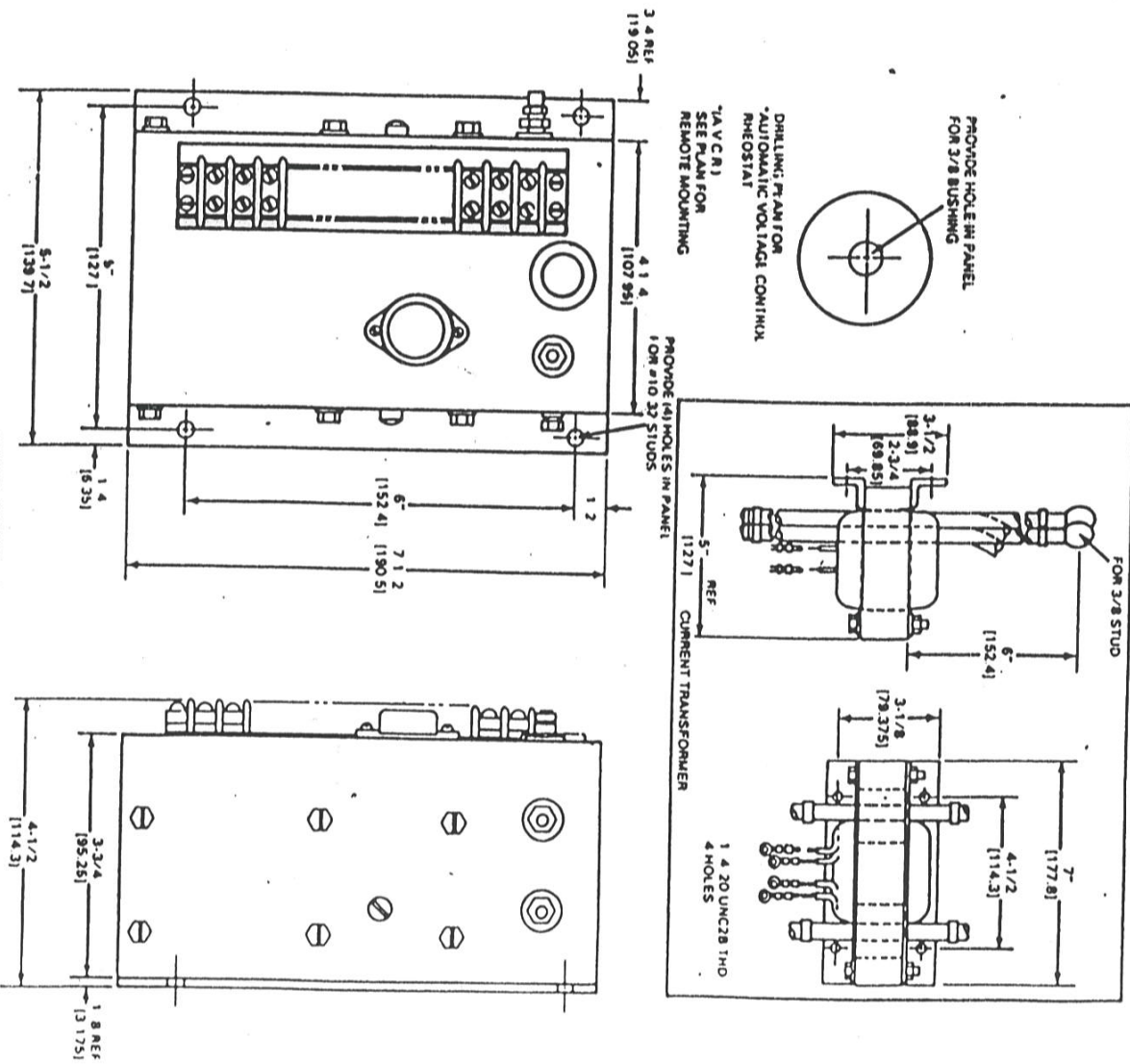
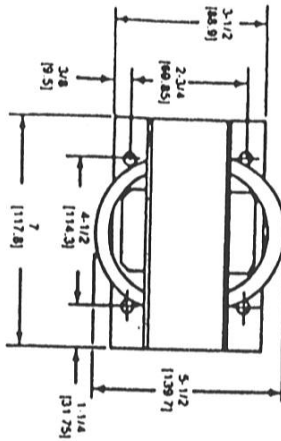
THE FOLLOWING ITEMS APPLY UNLESS OTHERWISE SPECIFIED:

FLAME	GROUND	GROUNDING STRAP	GROUND RESISTOR
RELAY	CONDUCTIVE	CONDUCTIVE	PROTECTIVE SHEET
SOLENOID	DISSIPATOR	DISSIPATOR	PROTECTED WIRE
PARALLEL	PROTECTIVE	PROTECTIVE	PROTECTIVE
DRIVE	DRIVE	DRIVE	DRIVE

[-A-] [XXX] [110]

DIMENSIONS INCHES [MILLIMETERS]

4972722



<p>DFR2407 GENERAL INSTRUCTIONS & TABLE OF CONTENTS</p> <p>DFR2407 IS A GEN-POWER VOLTAGE REGULATOR REPLACEMENT FOR DELCO PRODUCTS MODEL H6212A REPLACEMENT KIT. THIS KIT COMBINES MODELS H6212, H6213, AND H6216 VOLTAGE REGULATOR KITS INTO ONE MODEL.</p> <p>FOLLOW THE STEPS OUTLINED ON THE APPROPRIATE INSTRUCTION SHEET FOR THE FOLLOWING DELCO PRODUCTS DUAL FIELD REGULATORS.</p> <ul style="list-style-type: none"> o TWO TRANSISTOR REGULATOR CONTROL ASSEMBLY. o THREE TRANSISTOR REGULATOR CONTROL ASSEMBLY. o H50 OR H60 SERIES REGULATOR CONTROL ASSEMBLY. <p>THIS KIT CONSISTS OF:</p> <ul style="list-style-type: none"> 2803276 INSTRUCTION SHEET (FOR H50 & H60 REPLACEMENT) 2803277 CONNECTION DIAGRAM (FOR 2T & 3T REPLACEMENT) 2803278 INSTRUCTION SHEET (FOR 2T REPLACEMENT) 2803279 INSTRUCTION SHEET (FOR 3T REPLACEMENT) 4972722 REGULATOR ASSEMBLY & OUTLINE 4953167 REGULATOR CONTROL ASSEMBLY 4957620 RESISTOR ASSEMBLY (USED ONLY WITH 2T REPLACEMENT) 5550437 JUMPER-TERMINAL 		<p>NO. 2803280</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>SYN</th> <th>REVISION RECORD</th> <th>AUTH</th> <th>DR</th> <th>CK</th> </tr> <tr> <td>15 OC 82</td> <td></td> <td>ISSUED</td> <td>8383 R</td> <td></td> <td></td> </tr> </table>	DATE	SYN	REVISION RECORD	AUTH	DR	CK	15 OC 82		ISSUED	8383 R		
DATE	SYN	REVISION RECORD	AUTH	DR	CK									
15 OC 82		ISSUED	8383 R											
		<p>MATERIAL SPEC PAPER</p>												
		<p>NAME GENERAL INSTRUCTIONS & TABLE OF CONTENTS</p>												
		<p>SIZE PART NO.</p> <p>A3 2803280</p>												

THE FOLLOWING ITEMS APPLY UNLESS OTHERWISE SPECIFIED:

TRUE POSITION TOLERANCES AND RELATED DATUMS (EXCEPT PLANE SURFACES) APPLY AT MMC.
OTHER GEOMETRIC TOLERANCES AND RELATED DATUMS APPLY AT RFS. SEPARATE TRUE POSITION CALLOUTS MAY BE CALLED SEPARATELY, REGARDLESS OF DATUM REFERENCE.

DIAMETER	GEOMETRIC DRAWING SYMBOLS:	MAXIMUM MATERIAL CONDITION (MMC)
FLAT	CYLINDRICAL	REGARDLESS OF FEATURE SIZE (RFS)
STRAIGHT	PROFILE OF A SURFACE	PROJECTED TOL ZONE
SQUARE	TRUE	DATUM
PARALLEL	POSITION	DATUM THICKSET
ROUND	-A- DATUM XXX	BASIC DIM

NO. **2803280**