

SECTION VI

DIAGRAMS

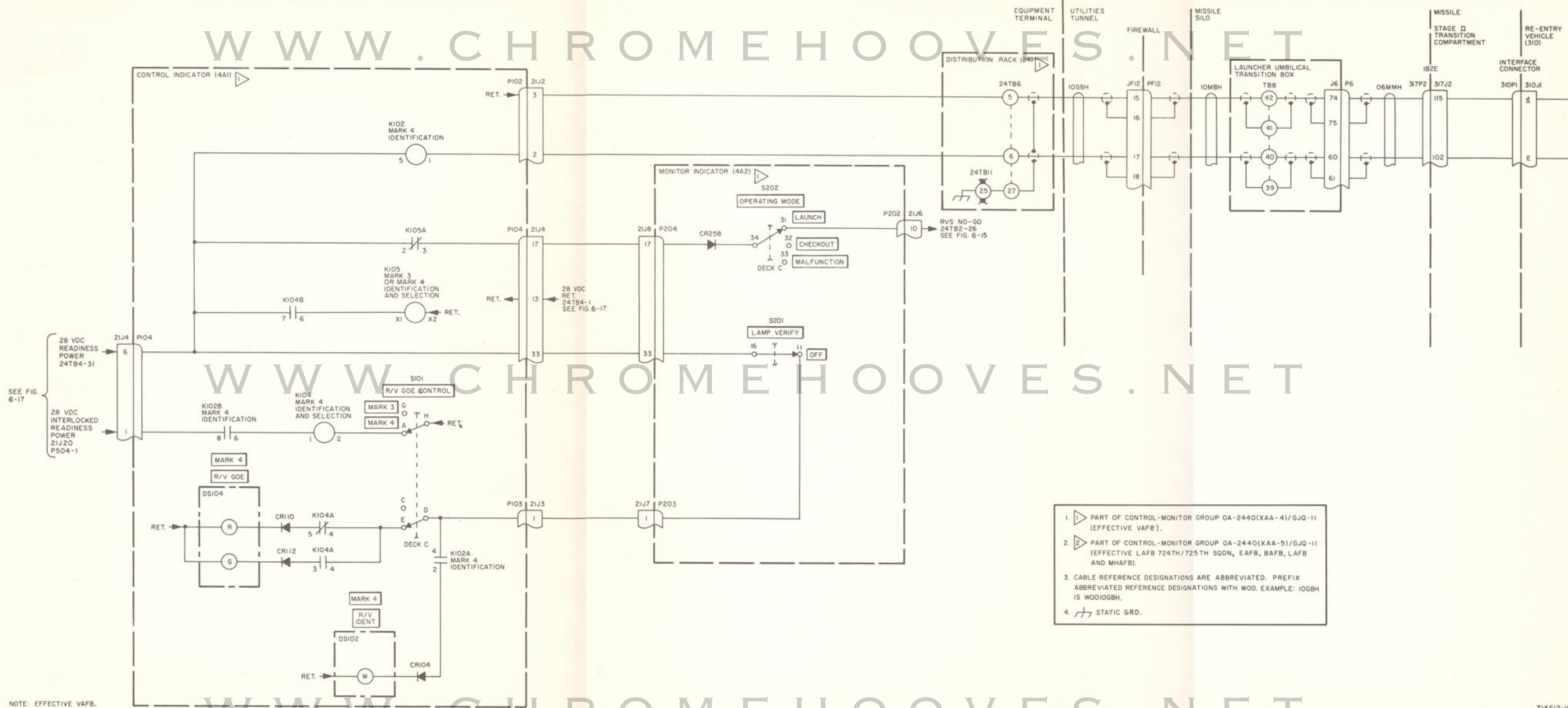
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6-1. INTRODUCTION.

6-2. This section contains diagrams of the re-entry vehicle system. These diagrams are to be used for trouble isolation if a malfunction status indicator is displayed but cannot be cleared by removing and replacing the affected system component as specified in Section II. Each diagram presents a loop of related functions. Data flow normally is shown from left to right (AGE to re-entry vehicle).

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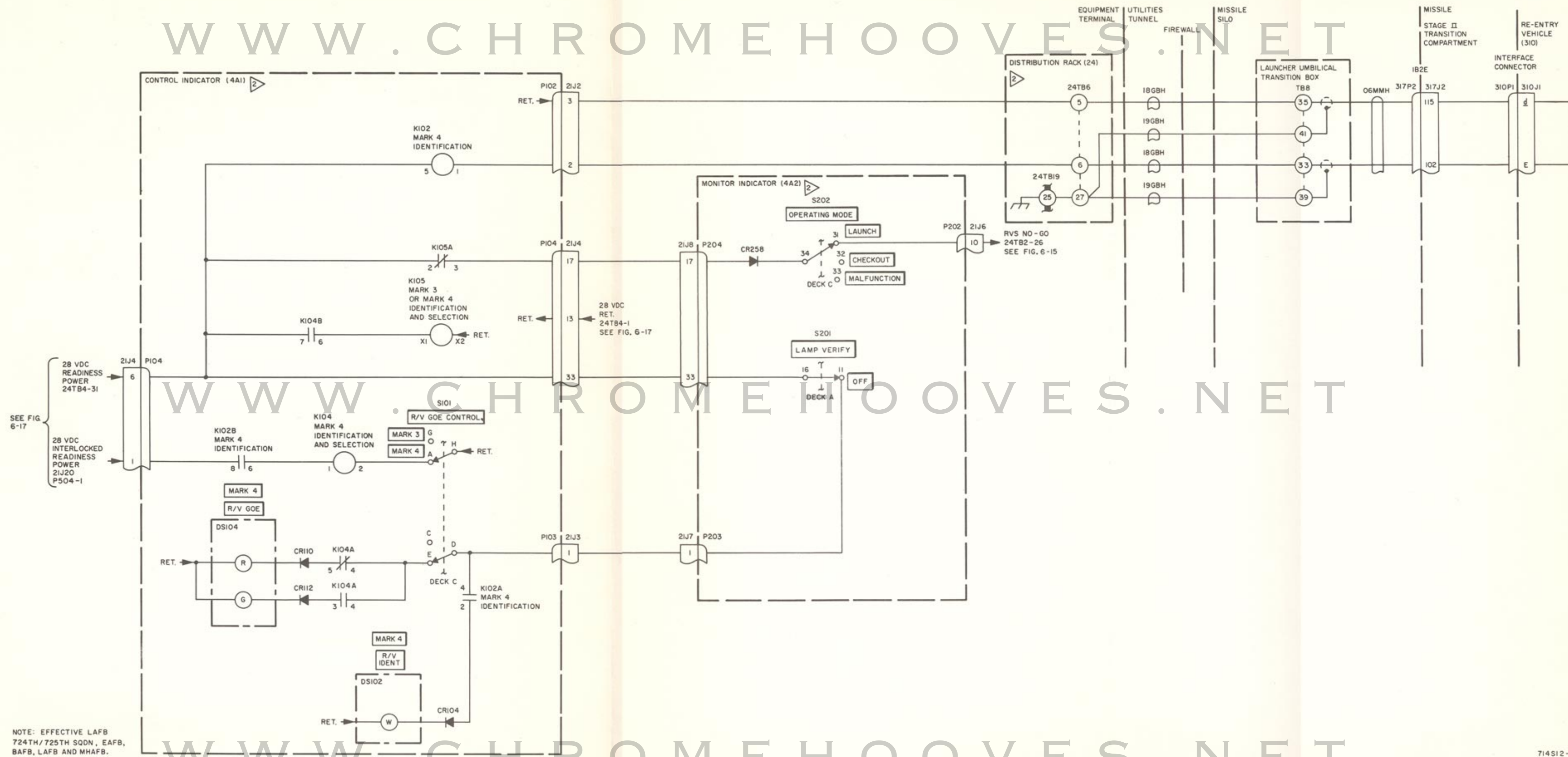
SEE FIG. 6-17

NOTE: EFFECTIVE VAFB.

1. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-4)/GJQ-11 (EFFECTIVE VAFB).
2. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-5)/GJQ-11 (EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFFB).
3. CABLE REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX ABBREVIATED REFERENCE DESIGNATIONS WITH WOO. EXAMPLE: IOGBH IS WOOIOGBH.
4. STATIC GRD.

Figure 6-1. Mark 4 Selection Identification (Sheet 1 of 2)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

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NOTE: EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB.

Figure 6-1. Mark 4 Selection Identification (Sheet 2 of 2)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

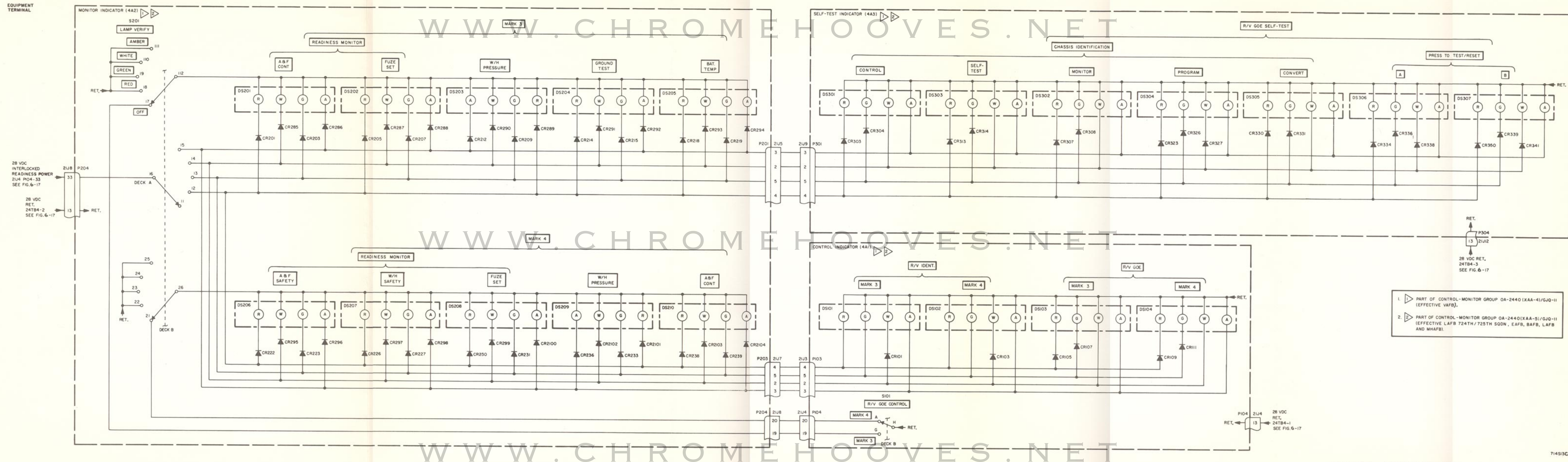
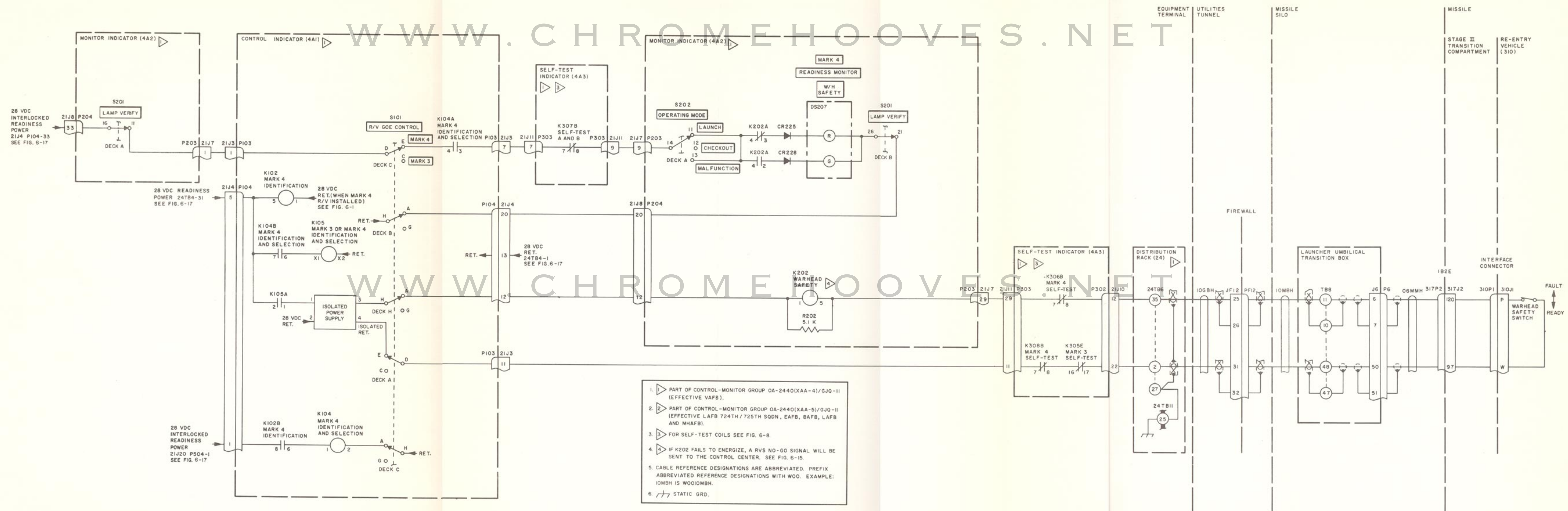
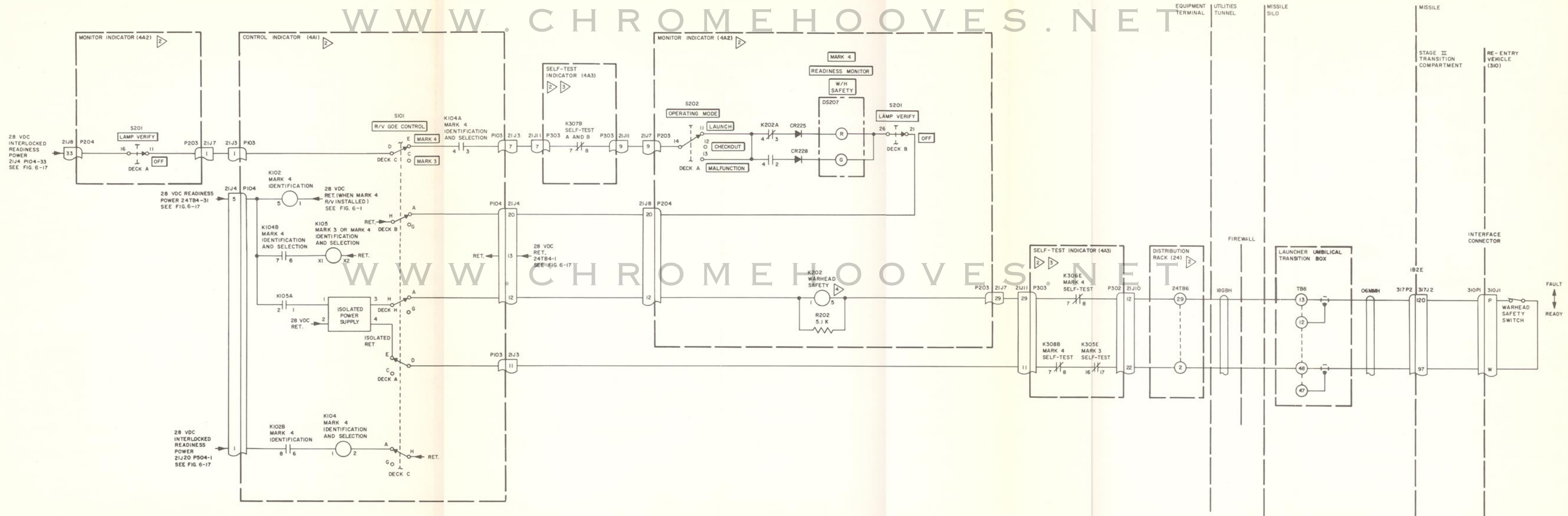


Figure 6-2. Lamp Verification
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)



NOTE: EFFECTIVE VAFB.

Figure 6-3. Mark 4 Readiness Monitor Warhead Safety (Sheet 1 of 2)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

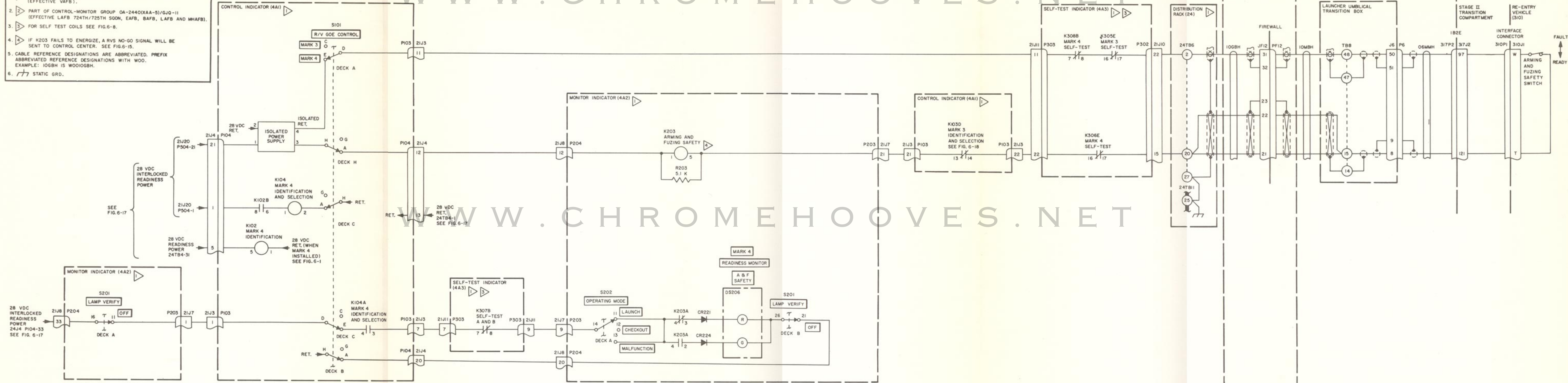


NOTE: EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB.

Figure 6-3. Mark 4 Readiness Monitor Warhead Safety (Sheet 2 of 2)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

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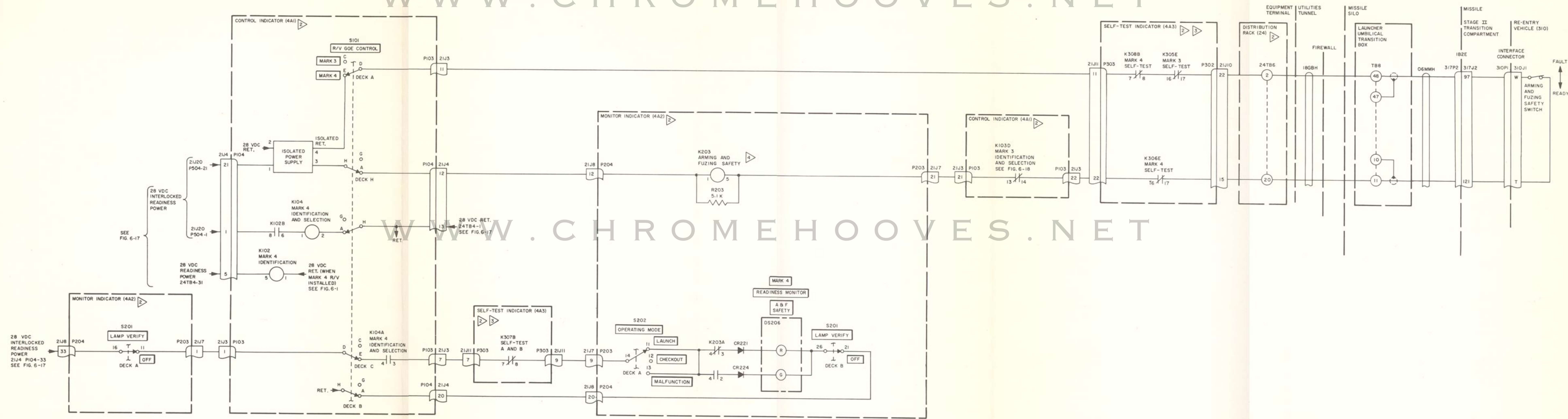
1. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-4)/GJQ-11 (EFFECTIVE VAFB).
2. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-5)/GJQ-11 (EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB).
3. FOR SELF TEST COILS SEE FIG. 6-8.
4. IF K203 FAILS TO ENERGIZE, A RVS NO-GO SIGNAL WILL BE SENT TO CONTROL CENTER. SEE FIG. 6-15.
5. CABLE REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX ABBREVIATED REFERENCE DESIGNATIONS WITH WOO. EXAMPLE: IOGBH IS WOOIOGBH.
6. STATIC GRD.



NOTE: EFFECTIVE VAFB.

Figure 6-4. Mark 4 Readiness Monitor Arming and Fuzing Safety (Sheet 1 of 2)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

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NOTE: EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB.

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Figure 6-4. Mark 4 Readiness Monitor Arming and Fuzing Safety (Sheet 2 of 2)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

1. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-4)/GJQ-11 (EFFECTIVE VAFB).
2. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-5)/GJQ-11 (EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB).
3. FOR SELF-TEST COIL SEE FIG. 6-8.
4. IF K201 FAILS TO ENERGIZE, A RVS NO-GO SIGNAL WILL BE SENT TO THE CONTROL CENTER. SEE FIG. 6-15.
5. LAUNCH CONTROL AND STATUS SYSTEM.
6. ALL MAGNETIC LATCHING RELAY CONTACTS SHOWN RESET.
7. EFFECTIVE VAFB.
8. EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB.
9. CABLE REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX THE ABBREVIATED REFERENCE DESIGNATIONS WITH WOO. EXAMPLE: 10GBH IS WOO10GBH.
10. STATIC GRD.
11. DENOTES CONNECTION TO MISSILE STRUCTURE.

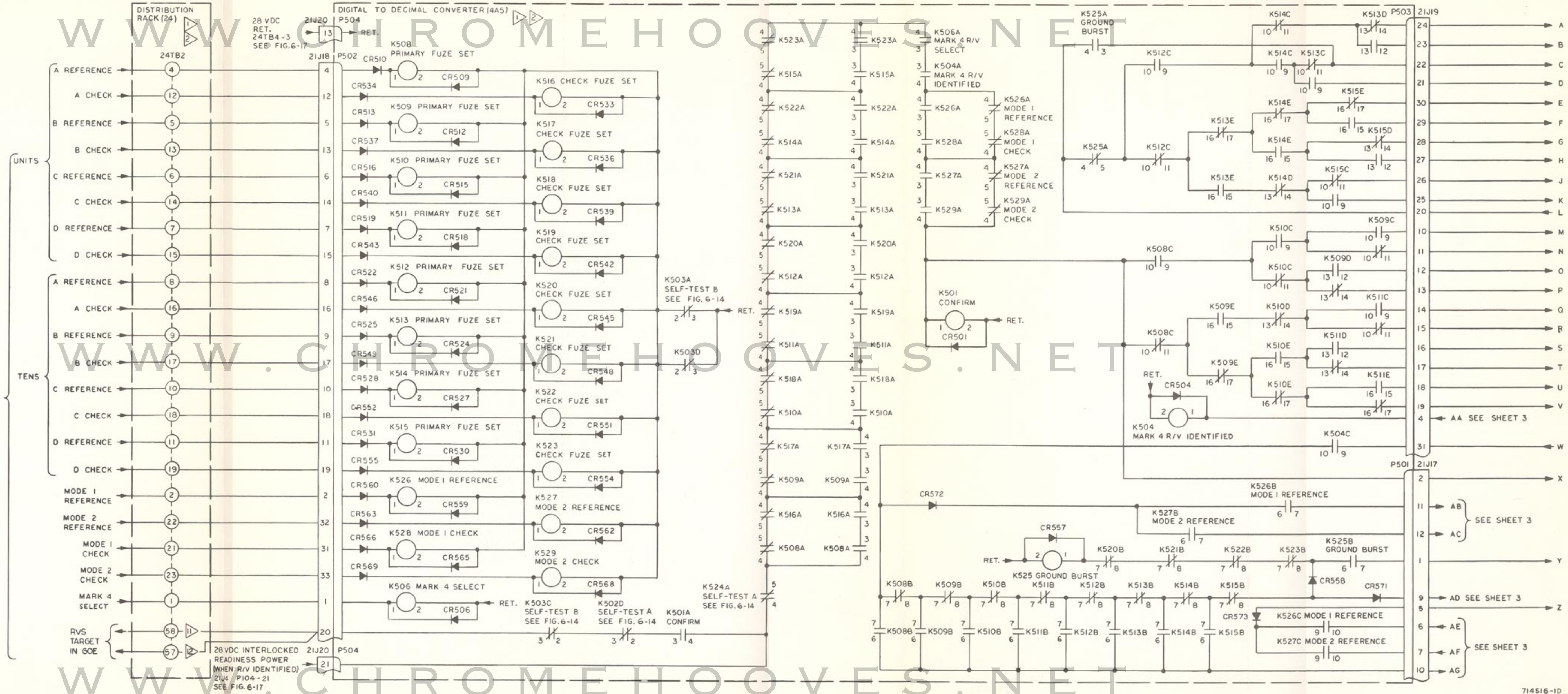


Figure 6-5. Mark 4 Readiness Monitor Fuze Set (Sheet 1 of 4)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

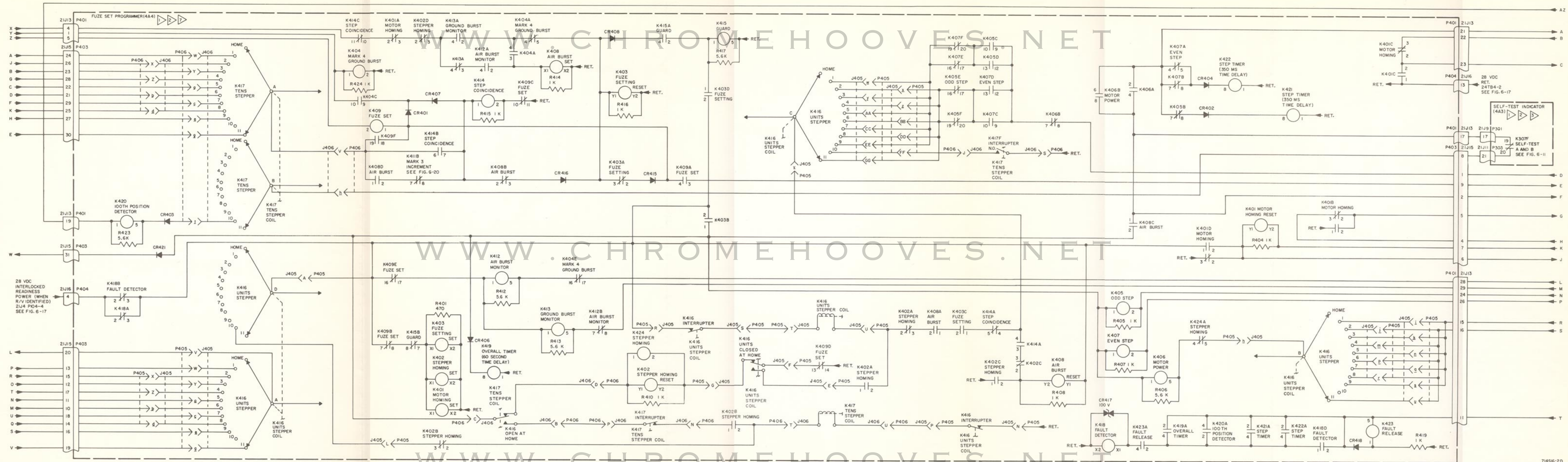


Figure 6-5. Mark 4 Readiness Monitor Fuze Set (Sheet 2 of 4)

Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

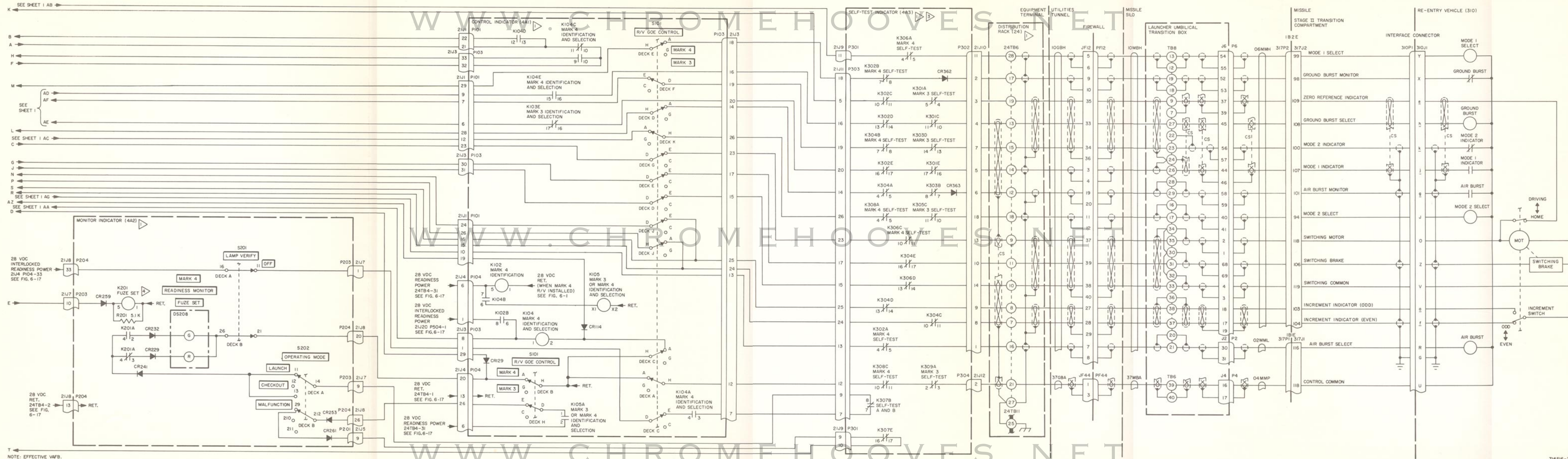
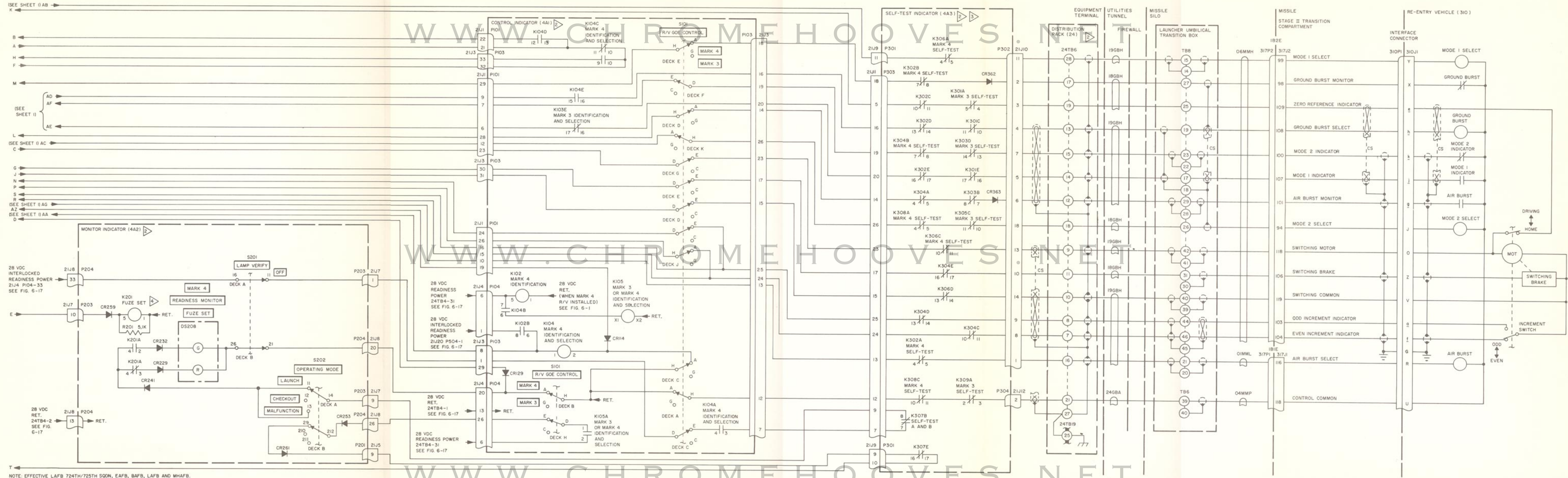


Figure 6-5. Mark 4 Readiness Monitor Fuze Set (Sheet 3 of 4)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)



NOTE: EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB.

Figure 6-5. Mark 4 Readiness Monitor Fuze Set (Sheet 4 of 4)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

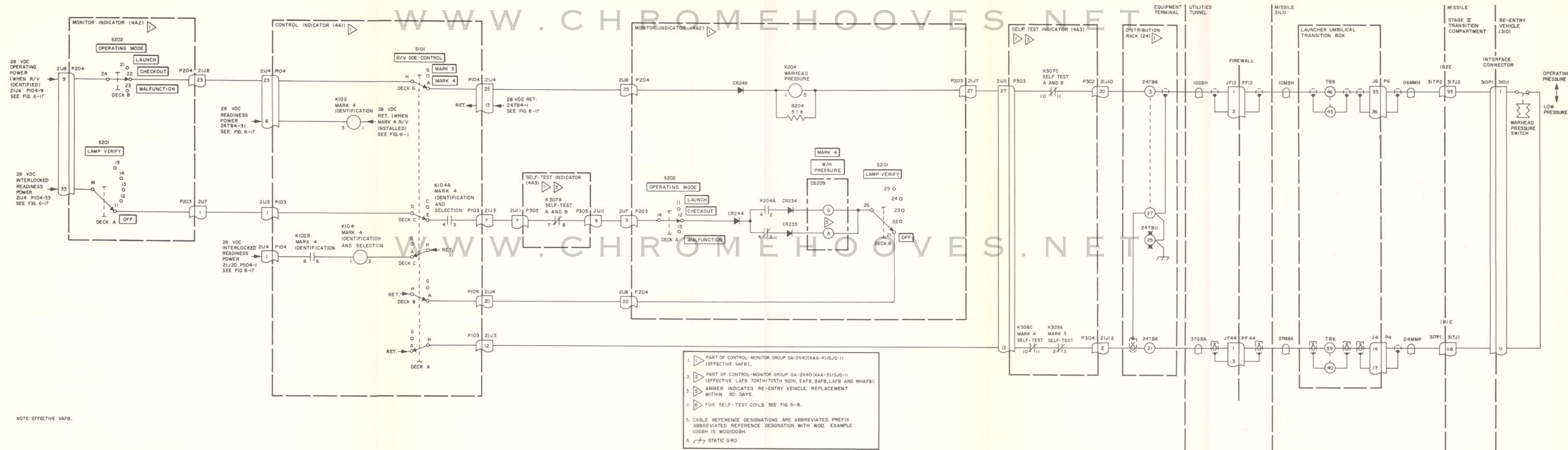
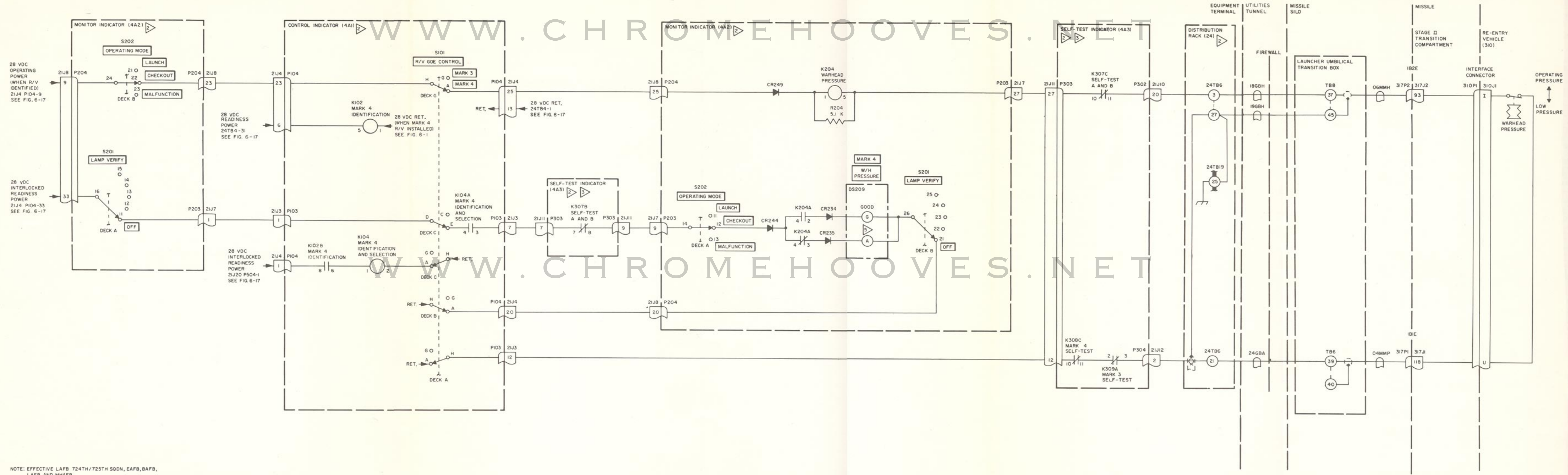


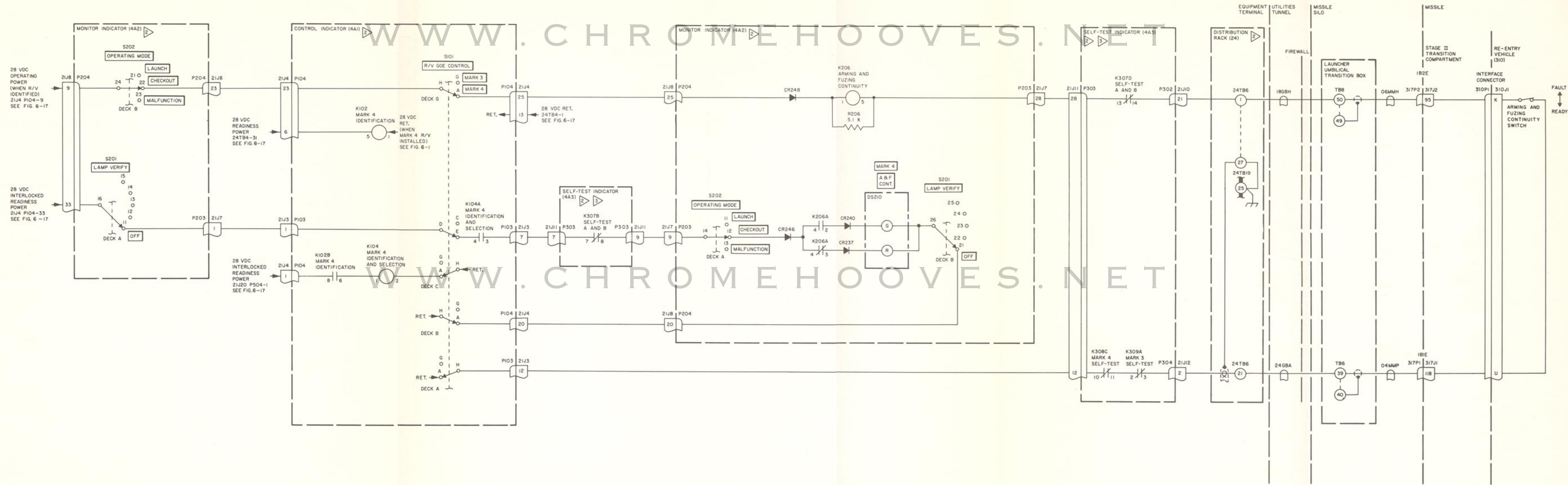
Figure 6-6. Mark 4 Warhead Pressure (Sheet 1 of 2)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)



NOTE: EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB.

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Figure 6-6. Mark 4 Warhead Pressure (Sheet 2 of 2)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)



NOTE: EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MAFB.

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Figure 6-7. Mark 5 Arming and Fuzing Continuity (Sheet 2 of 2)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

EQUIPMENT TERMINAL

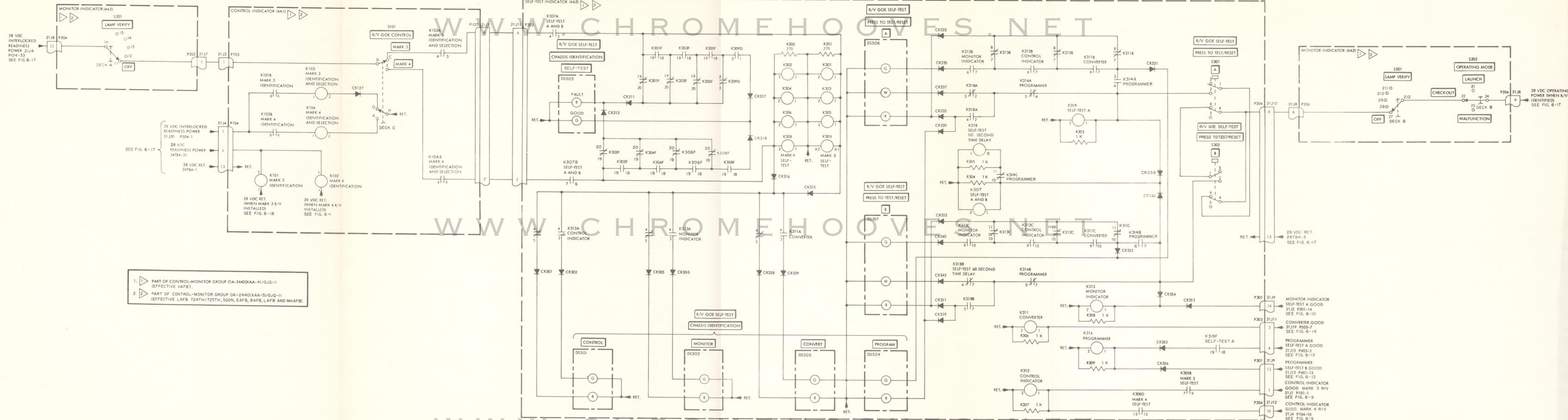


Figure 6-8. Chassis Fault Identification Self-Test Indication
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

714519C

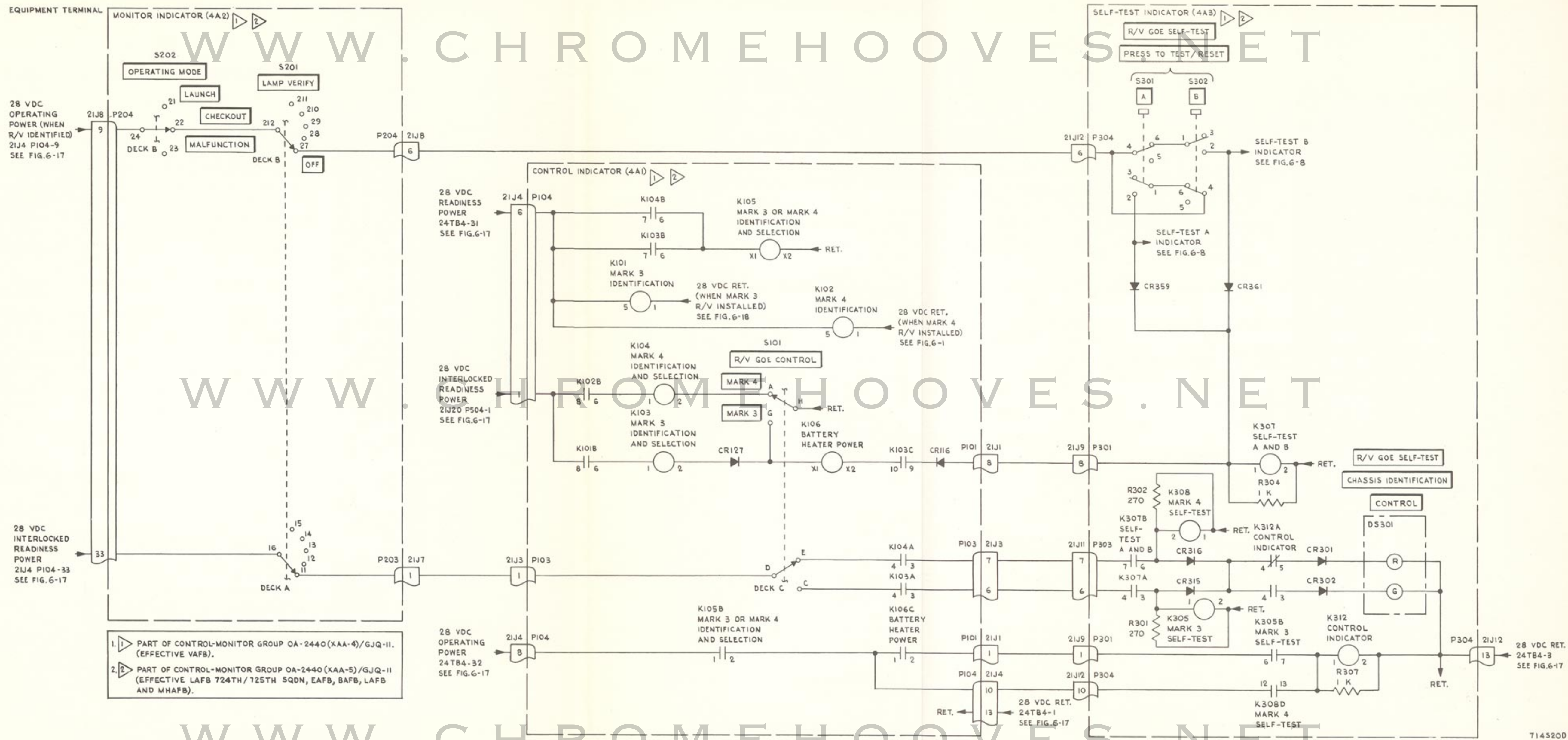
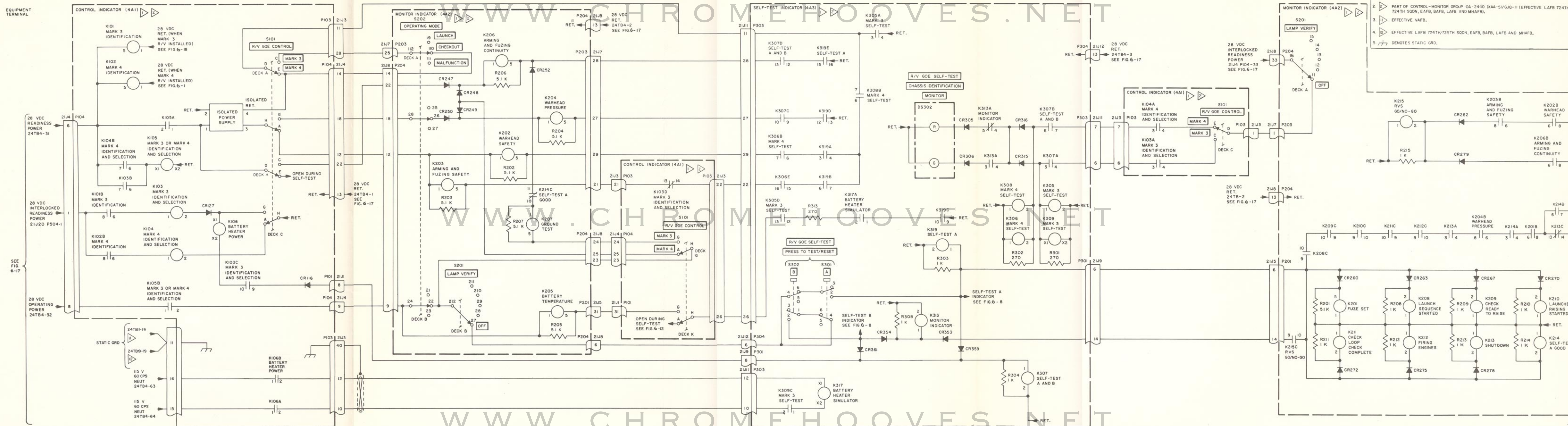


Figure 6-9. Control Indicator Assembly Self-Test A and B

Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)



1. PART OF CONTROL-MONITOR GROUP DA-2440 (XAA-41/GJQ-II (EFFECTIVE VAFB)).
2. PART OF CONTROL-MONITOR GROUP DA-2440 (XAA-51/GJQ-II (EFFECTIVE LAFB 724TH/724TH SQDN, EAFB, BAFB, LAFB AND MHAFB)).
3. EFFECTIVE VAFB.
4. EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB.
5. DENOTES STATIC GRD.

Figure 6-10. Monitor Indicator Assembly Self-Test A and B
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

EQUIPMENT TERMINAL

- 1. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-4)/GJQ-II (EFFECTIVE VAFB).
- 2. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-5)/GJQ-11 (EFFECTIVE LAFB 724/725 SQDN, EAFB, BAFB, LAFB AND MHAFB).

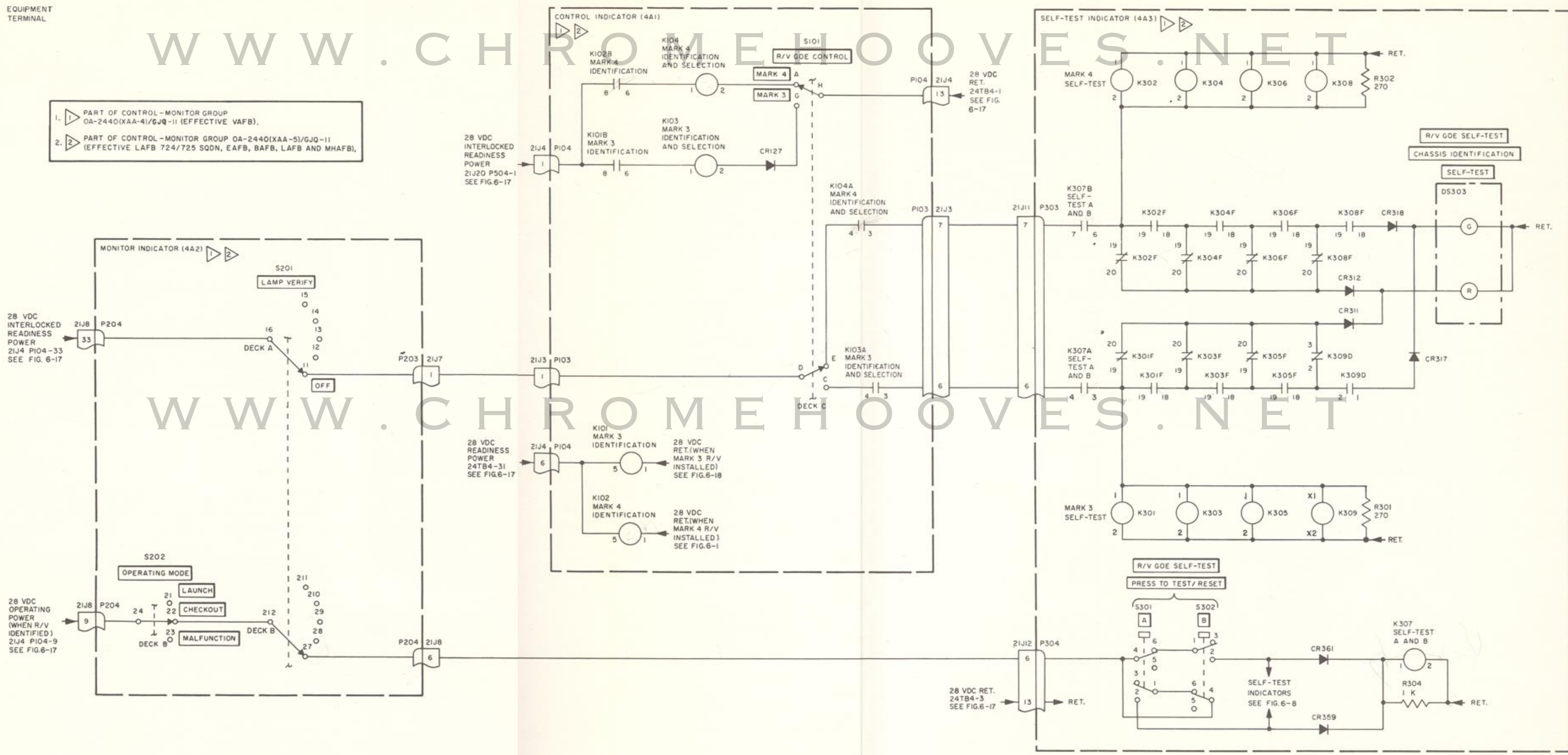
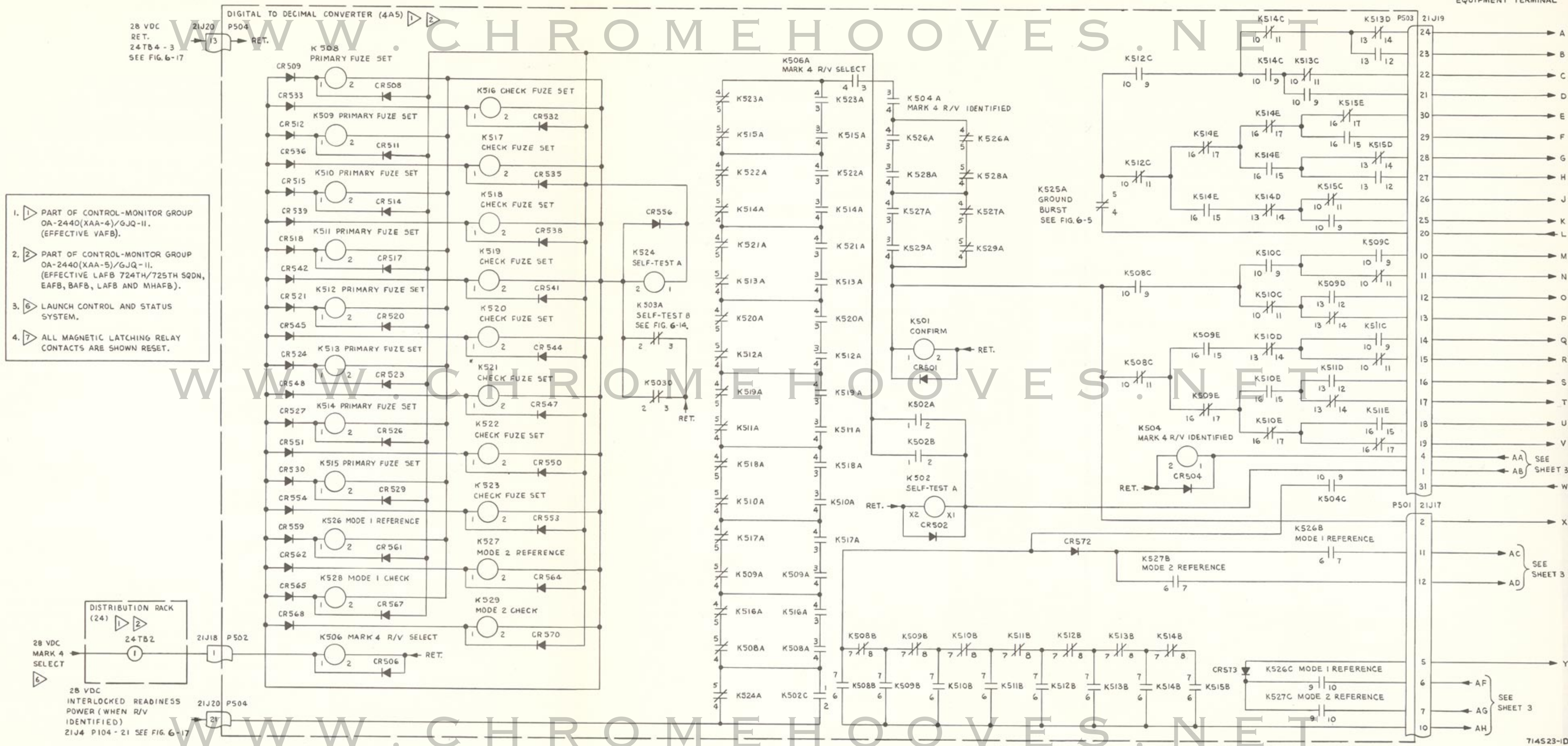


Figure 6-11. Self-Test Indicator Assembly Self-Test A and B

Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

714S22C

EQUIPMENT TERMINAL



1. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-4)/GJQ-II. (EFFECTIVE VAFB).
2. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-5)/GJQ-II. (EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFF).
3. LAUNCH CONTROL AND STATUS SYSTEM.
4. ALL MAGNETIC LATCHING RELAY CONTACTS ARE SHOWN RESET.

Figure 6-12. Mark 4 Fuze Set Programmer Assembly Self-Test A (Sheet 1 of 3)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

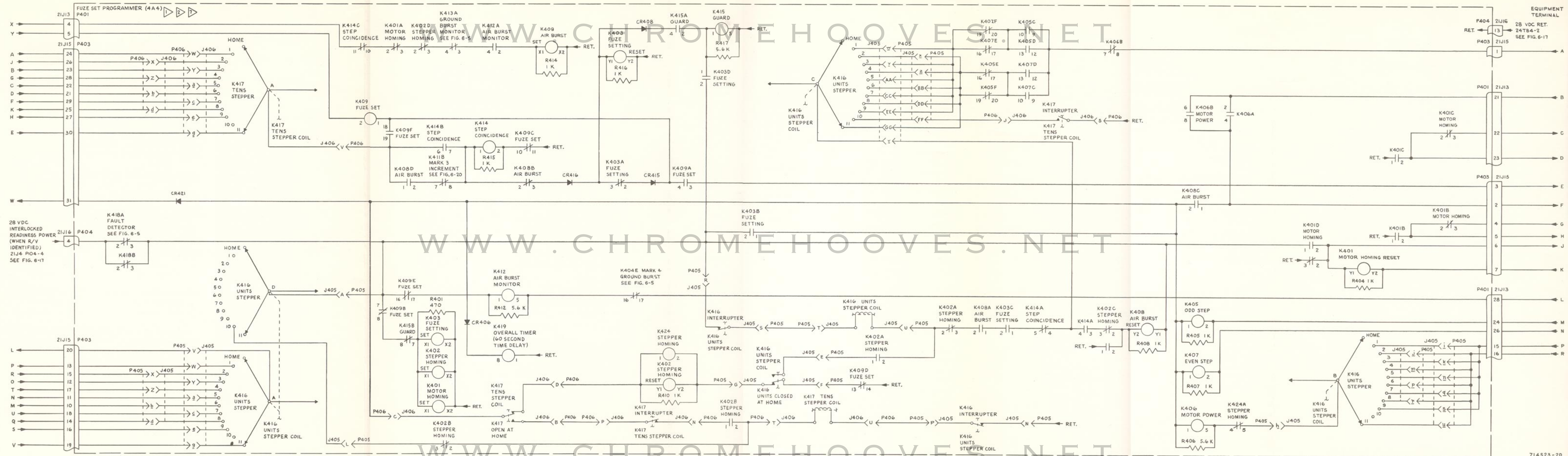


Figure 6-12. Mark 4 Fuze Set Programmer Assembly Self-Test A (Sheet 2 of 3)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

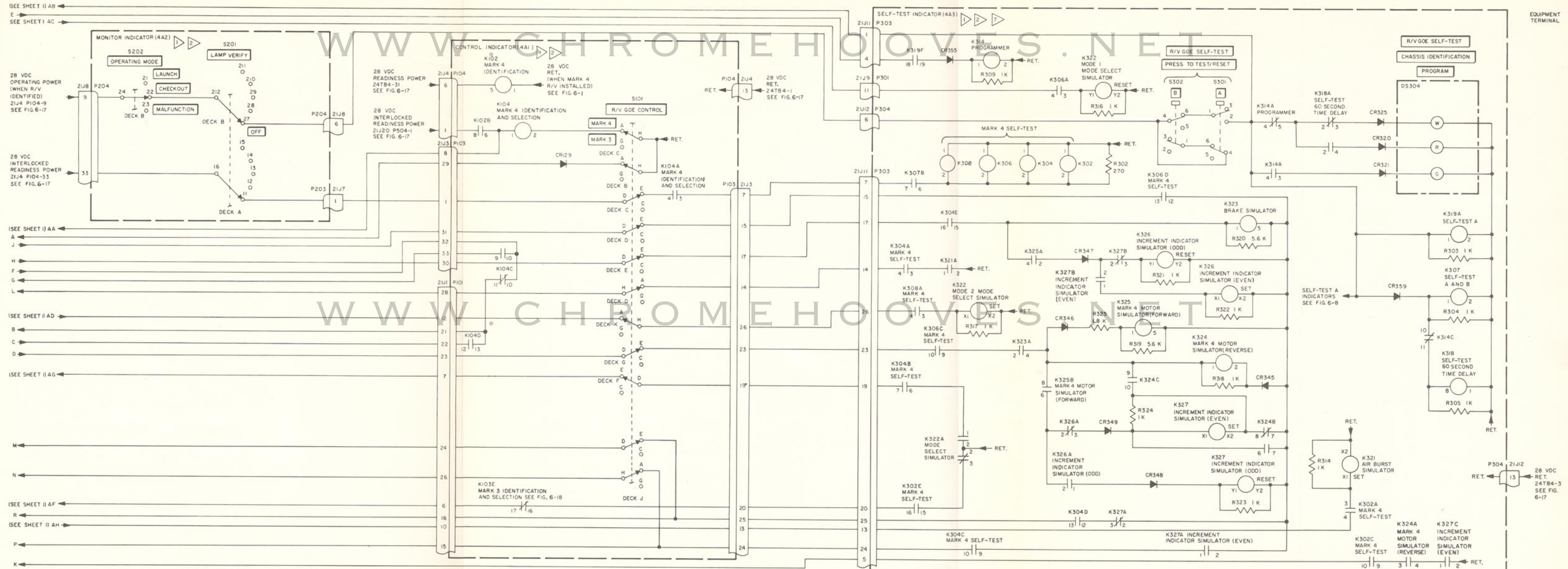


Figure 6-12. Mark 4 Fuze Set Programmer Assembly Self-Test A (Sheet 3 of 3)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

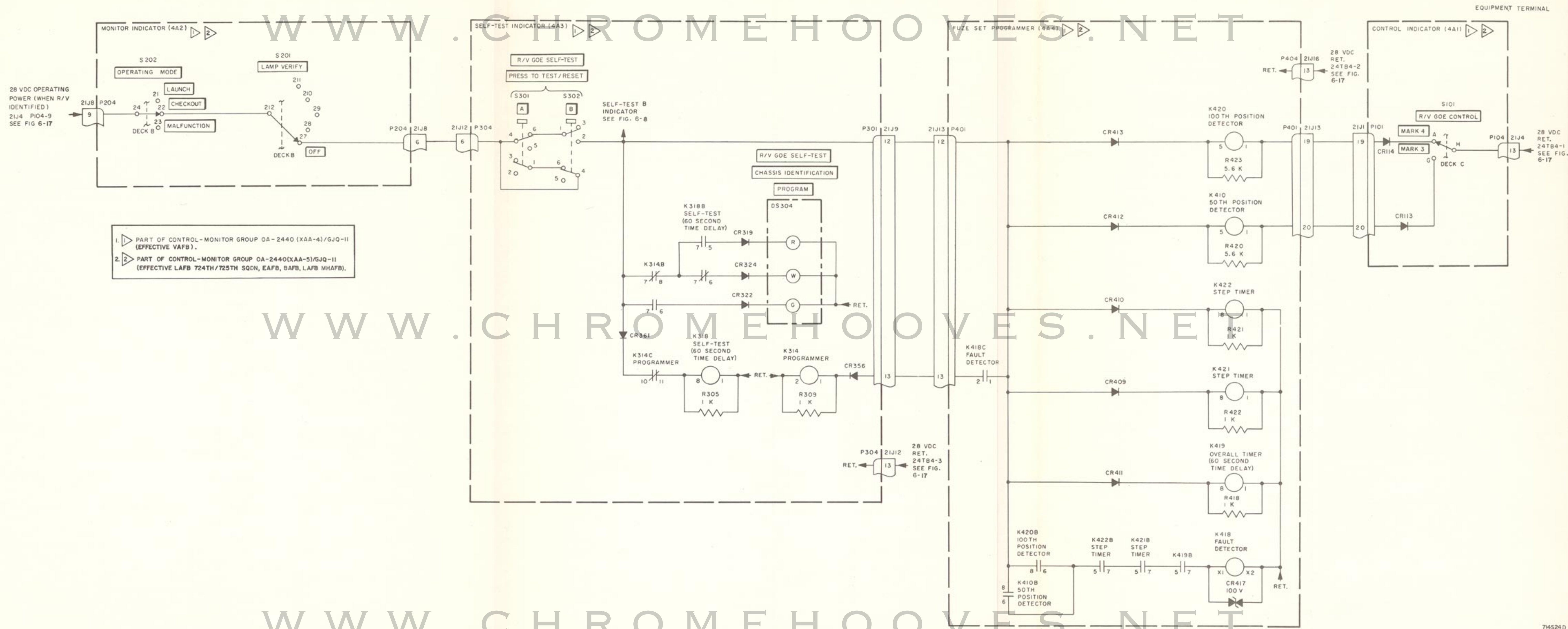
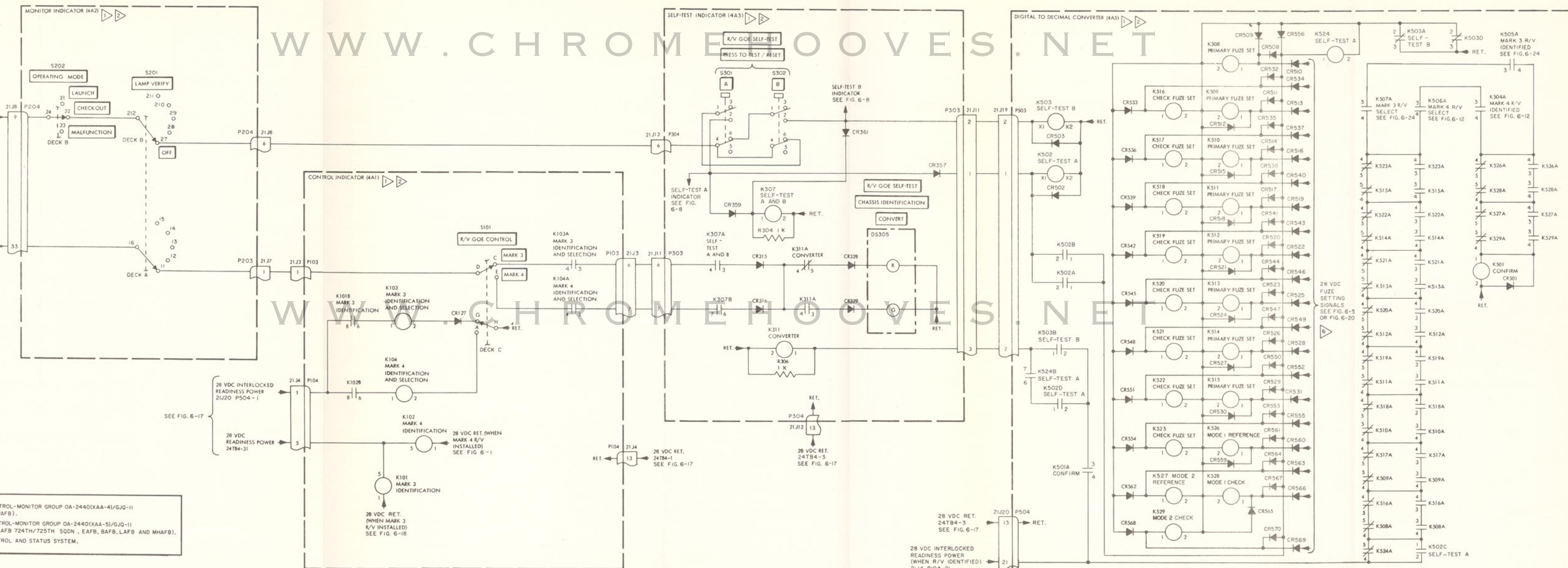


Figure 6-13. Fuze Set Programmer Assembly Self-Test B
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

EQUIPMENT TERMINAL

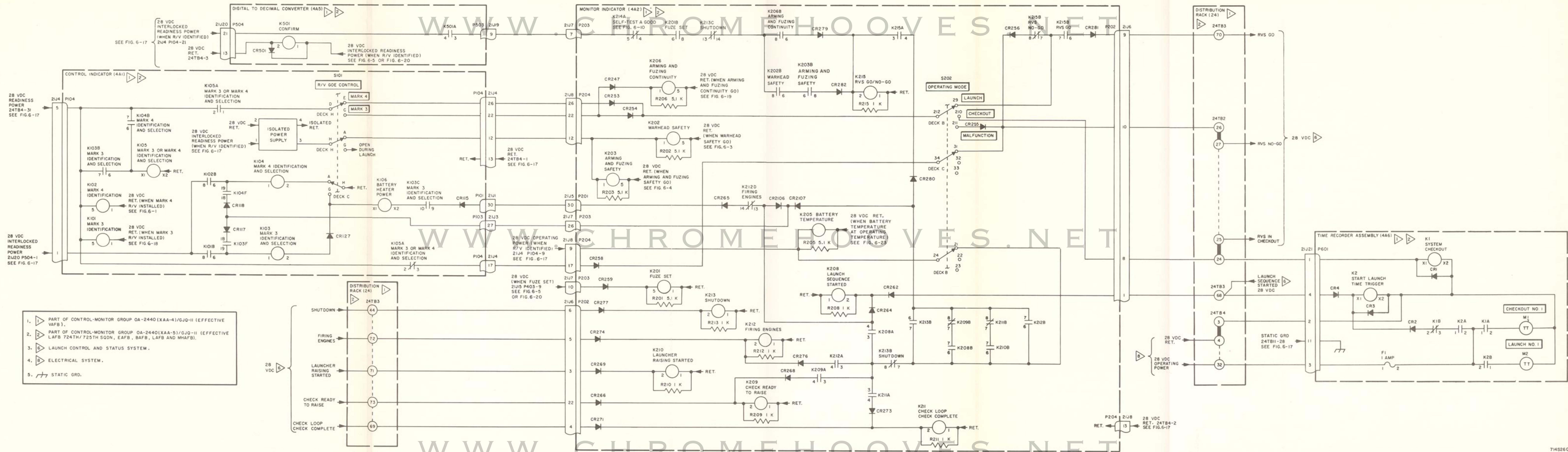
SEE FIG. 6-17



- 1. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-4)/GJQ-II (EFFECTIVE VAFB).
- 2. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-5)/GJQ-II (EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB).
- 3. LAUNCH CONTROL AND STATUS SYSTEM.

Figure 6-14. Digital to Decimal Converter Assembly Self-Test A and B
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

EQUIPMENT TERMINAL



- 1. PART OF CONTROL-MONITOR GROUP OA-2440 (XAA-41)/GJQ-II (EFFECTIVE VAFB).
- 2. PART OF CONTROL-MONITOR GROUP OA-2440 (XAA-5)/GJQ-II (EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB).
- 3. LAUNCH CONTROL AND STATUS SYSTEM.
- 4. ELECTRICAL SYSTEM.
- 5. STATIC GRD.

Figure 6-15. Launch and Checkout Sequence Monitor Status Control and Time Recorder Assembly

Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

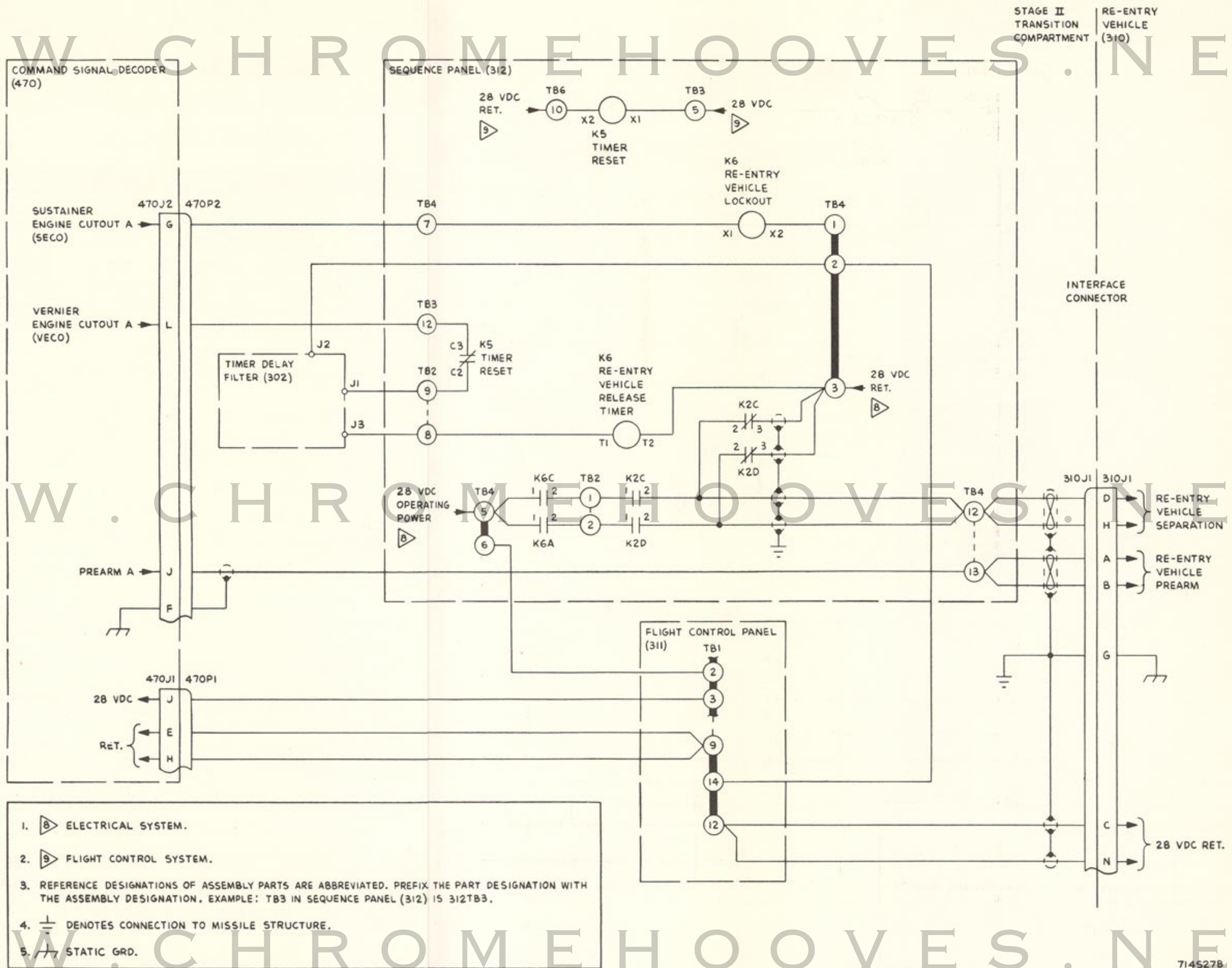
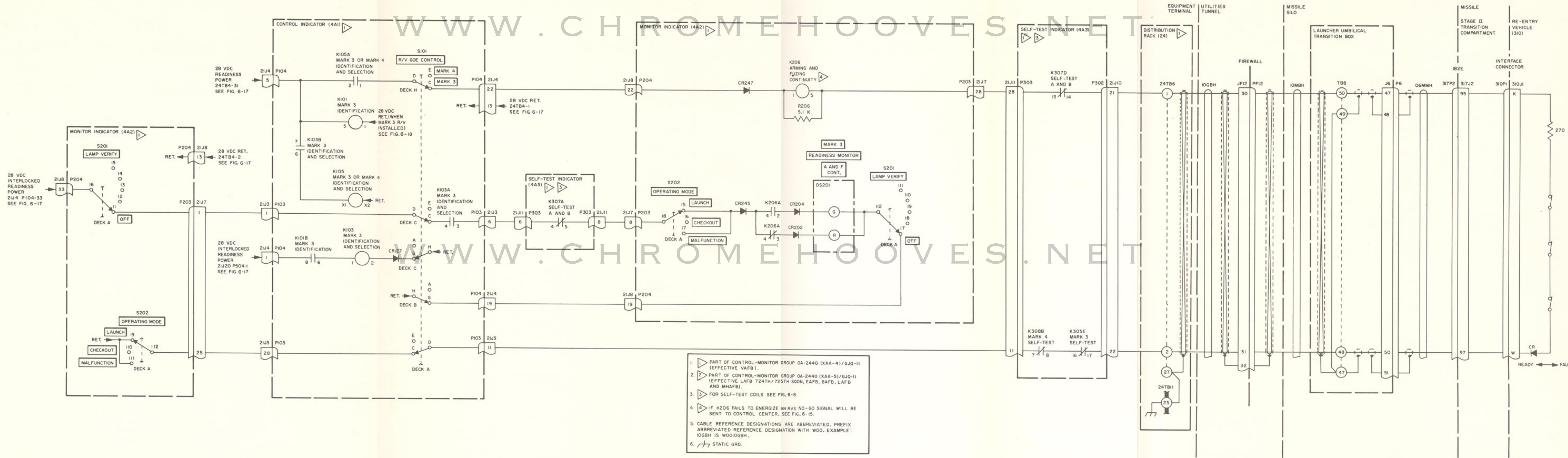
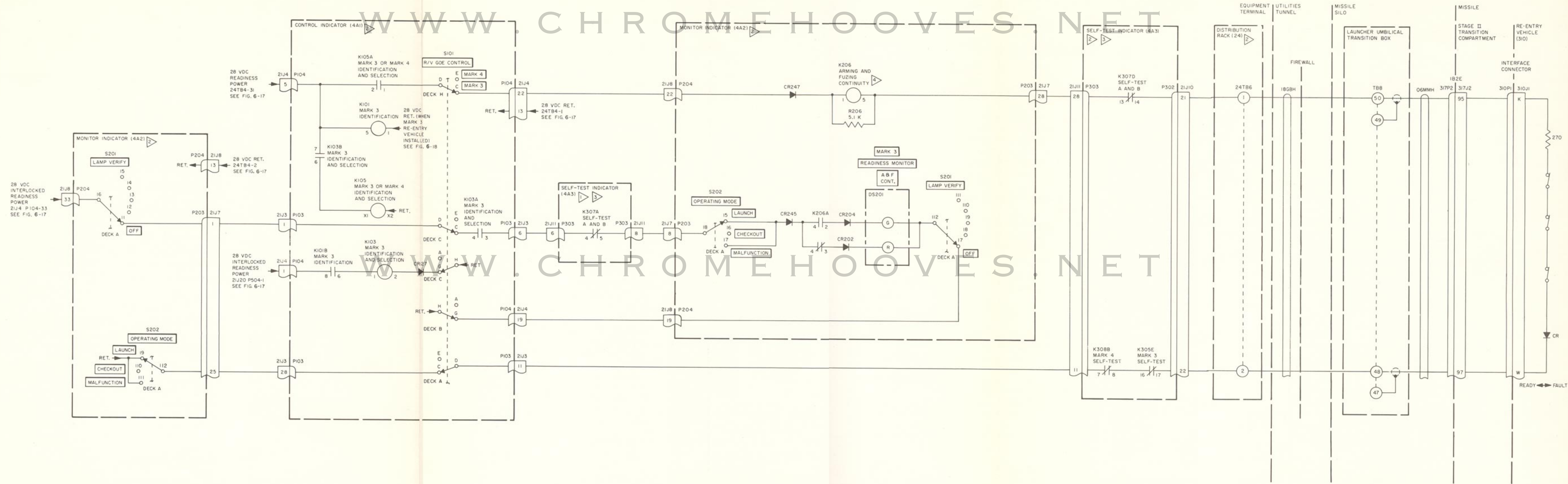


Figure 6-16. Separation



NOTE: EFFECTIVE VAFB.

Figure 6-19. Mark 3 Readiness Monitor Arming and Fuzing Continuity (Sheet 1 of 2)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)



NOTE: EFFECTIVE LAFB 724TH/725TH SODN, EAFB, BAFB, LAFB AND MHAFB.

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Figure 6-19. Mark 3 Readiness Monitor Arming and Fuzing Continuity (Sheet 2 of 2)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

1. PART OF CONTROL-MONITOR GROUP OA-2440 (XAA-4) GJQ-II (EFFECTIVE VAFB).
2. PART OF CONTROL-MONITOR GROUP OA-2440 (XAA-5) GJQ-II (EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFFB).
3. FOR SELF-TEST COILS SEE FIG.6-B.
4. LAUNCH CONTROL AND STATUS SYSTEM.
5. ALL MAGNETIC LATCHING RELAY CONTACTS SHOWN RESET.
6. EFFECTIVE VAFB.
7. EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFFB.
8. CABLE REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX ABBREVIATED REFERENCE DESIGNATIONS WITH WOO. EXAMPLE: IOGBH IS WOOIOGBH.
9. STATIC GRD.
10. DENOTES CONNECTION TO MISSILE STRUCTURE.

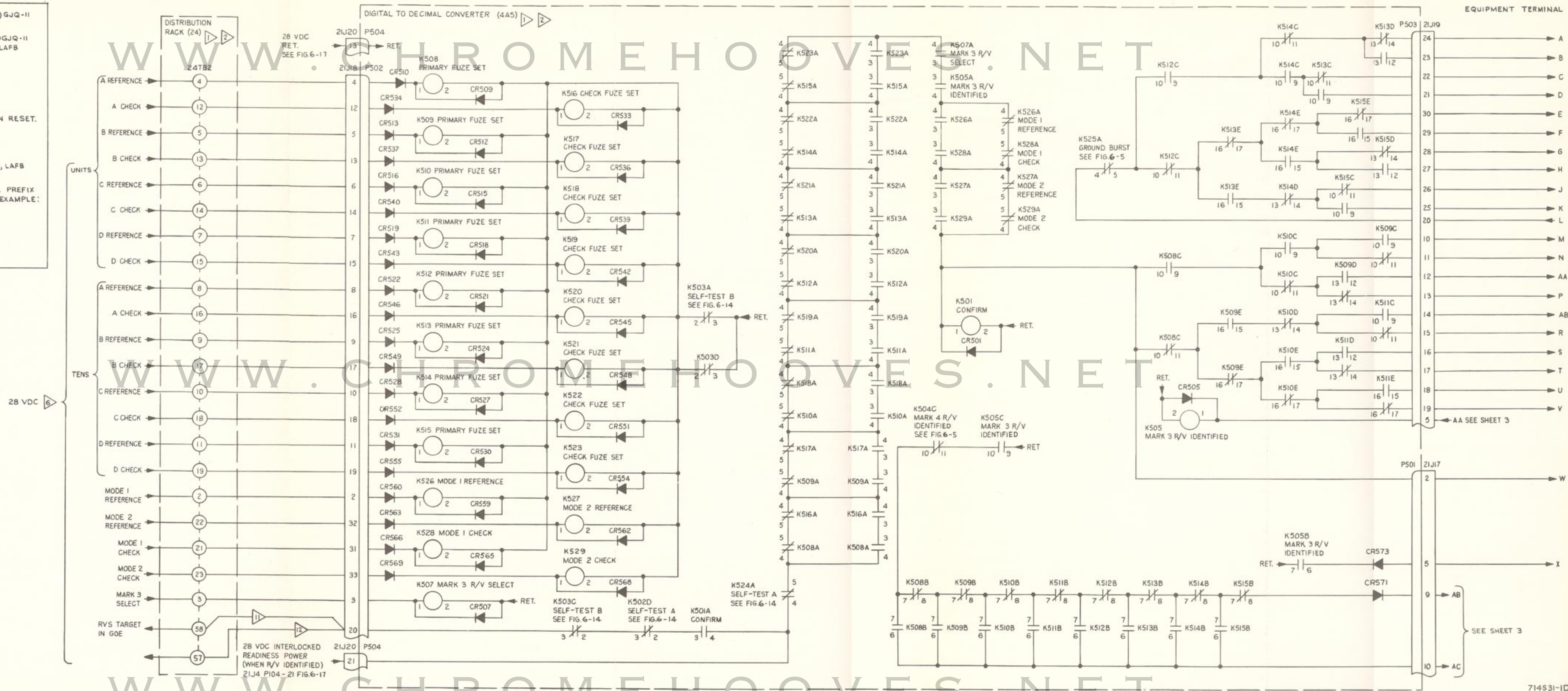


Figure 6-20. Mark 3 Readiness Monitor Fuze Set (Sheet 1 of 4)

Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

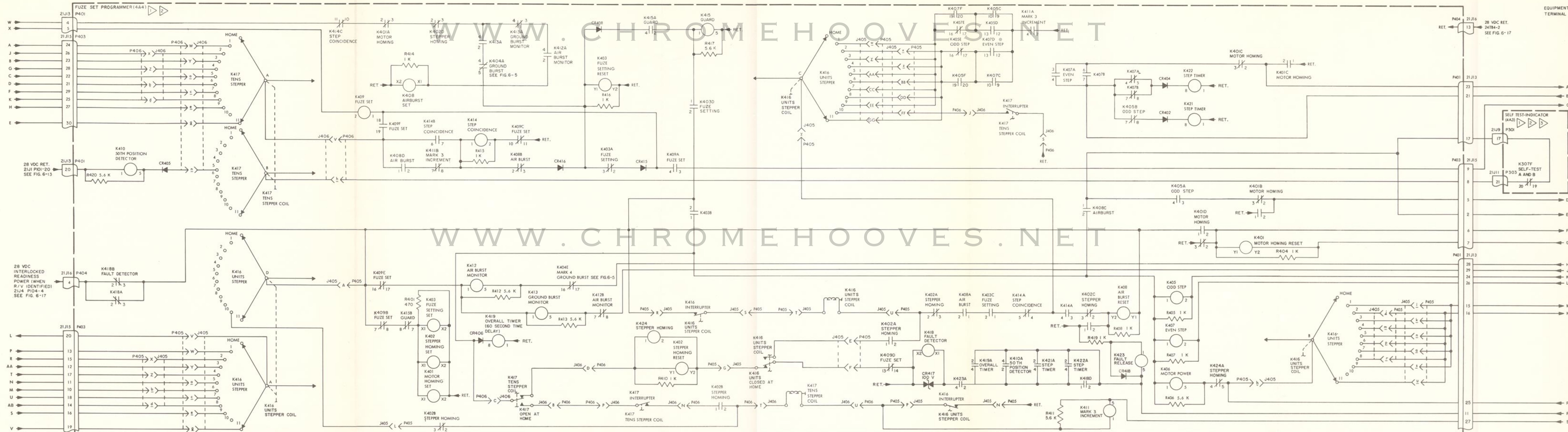


Figure 6-20. Mark 3 Readiness Monitor Fuze Set (Sheet 2 of 4)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

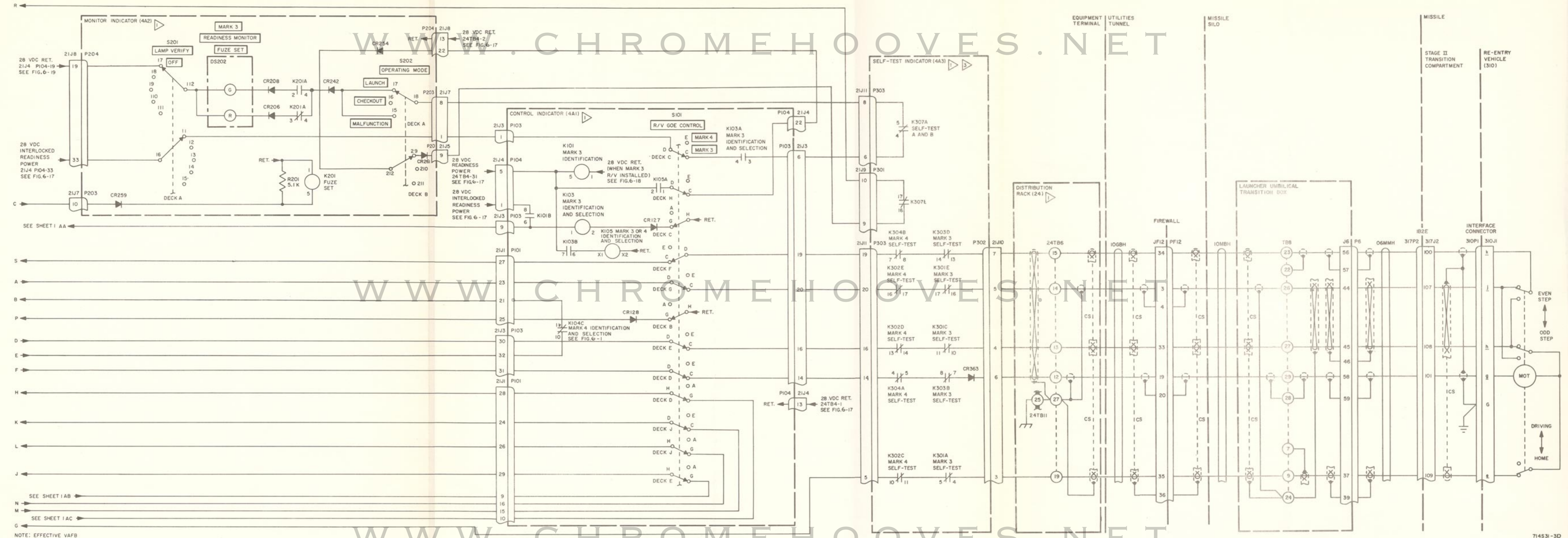
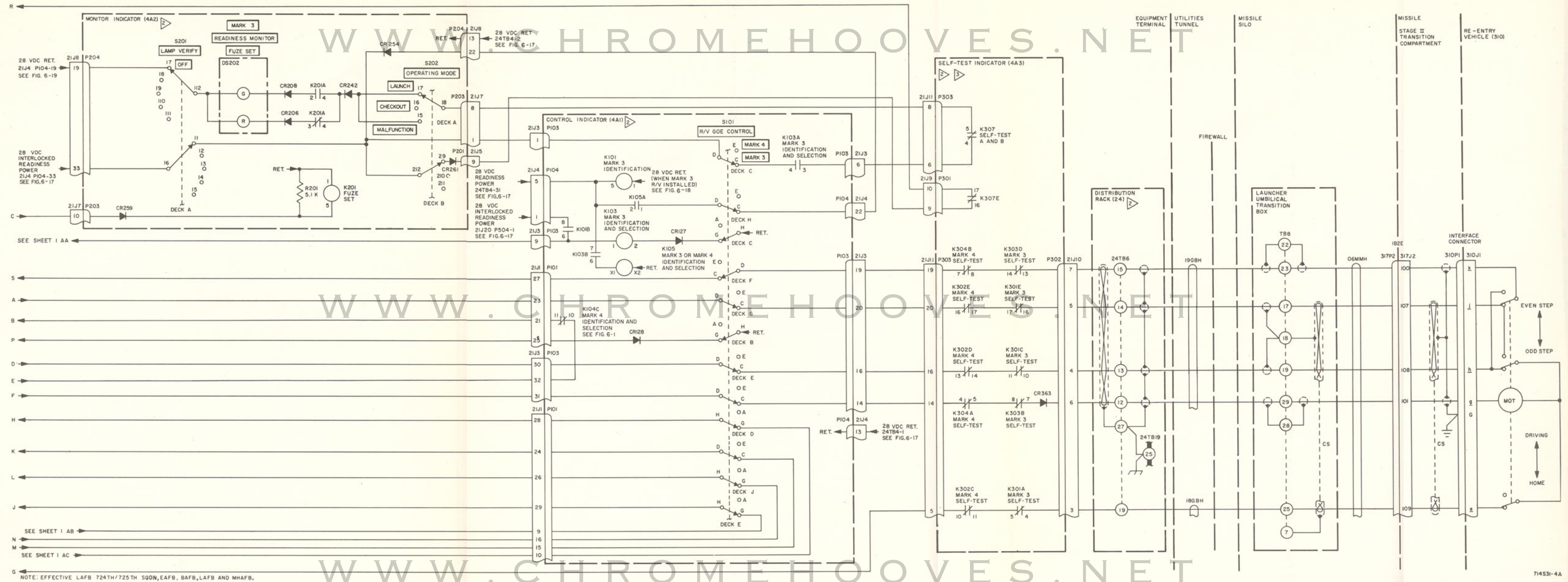


Figure 6-20. Mark 3 Readiness Monitor Fuze Set (Sheet 3 of 4)

Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

714531-3D



NOTE: EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB.

Figure 6-20. Mark 3 Readiness Monitor Fuze Set (Sheet 4 of 4)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

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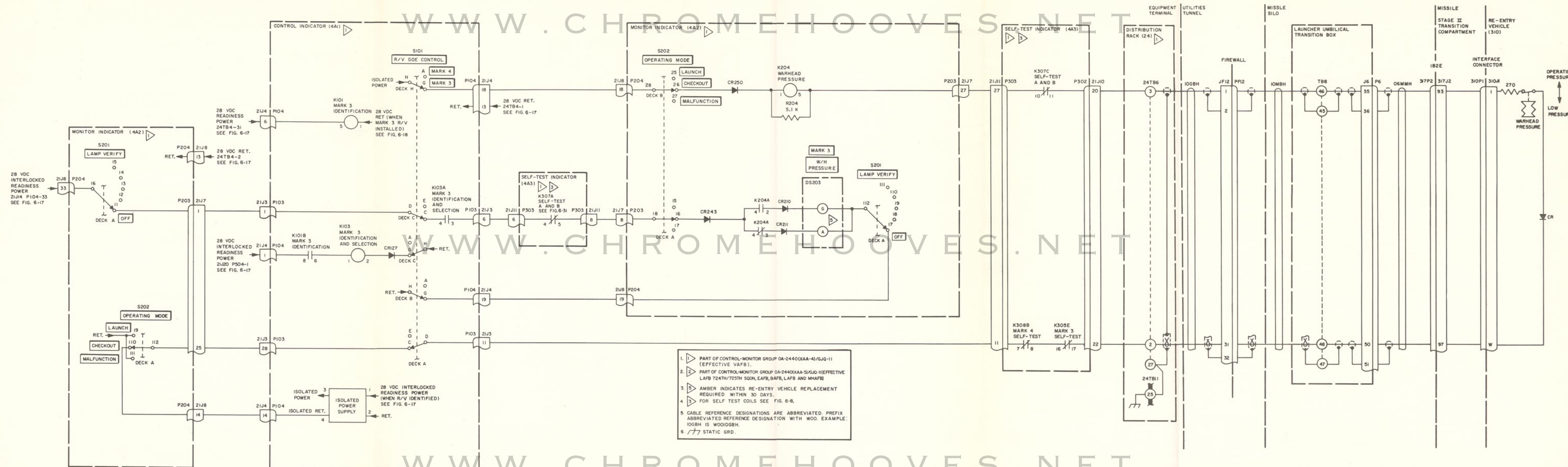
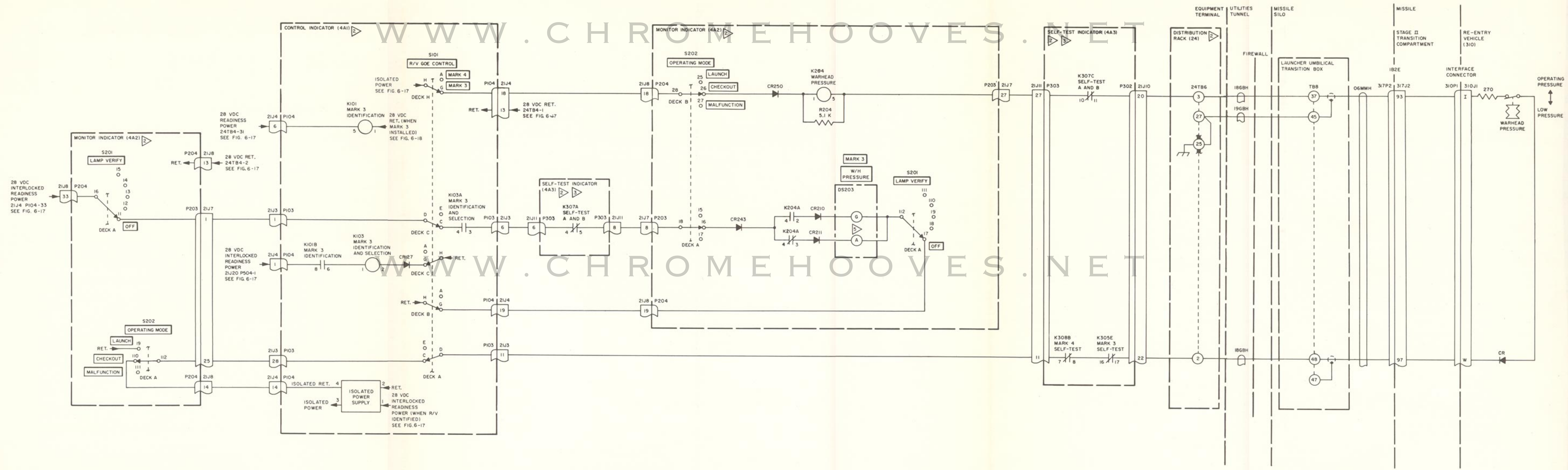


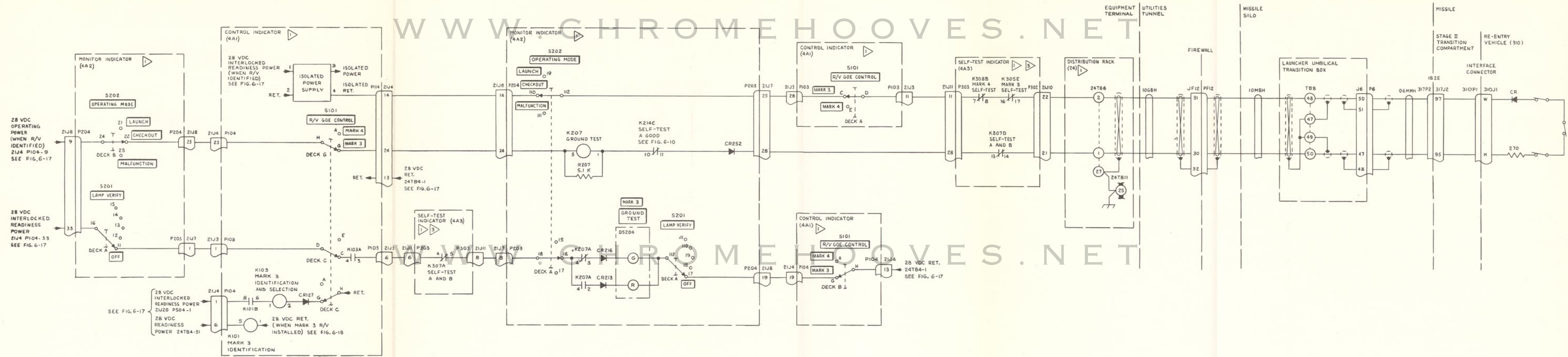
Figure 6-21. Mark 3 Warhead Pressure (Sheet 1 of 2)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)



NOTE: EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB.

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Figure 6-21. Mark 3 Warhead Pressure (Sheet 2 of 2)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

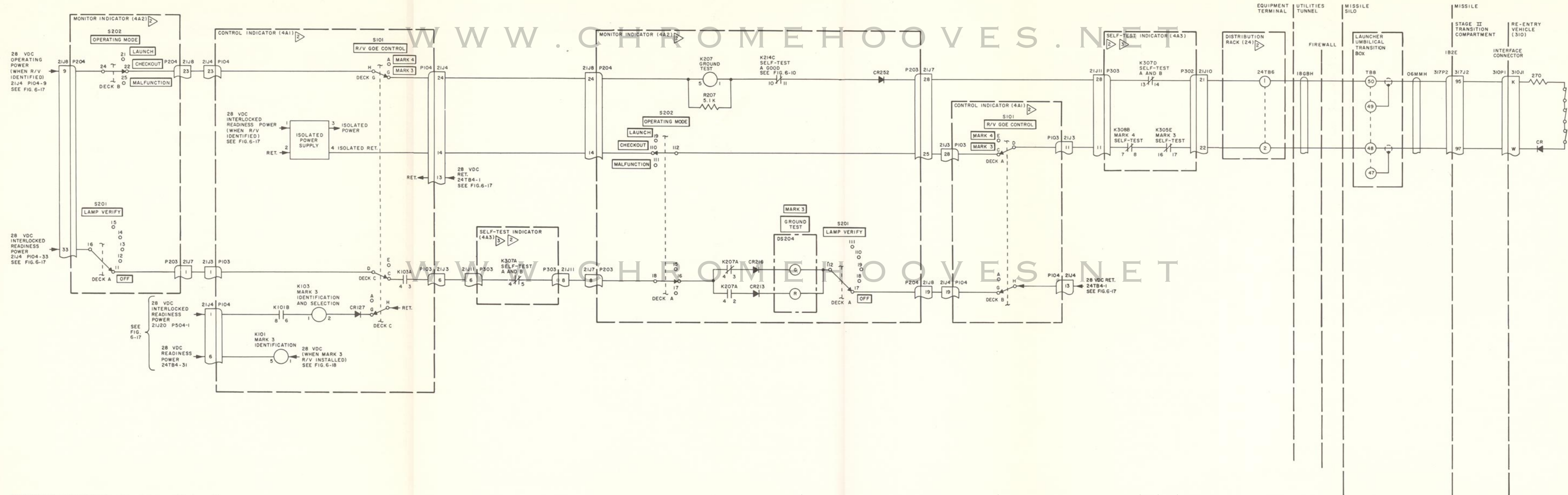


1. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-4)/GJQ-II (EFFECTIVE VAFB).
2. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-5)/GJQ-II (EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFF).
3. FOR SELF-TEST COILS SEE FIG. 6-8.
4. CABLE REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX ABBREVIATED REFERENCE DESIGNATIONS WITH WOO. EXAMPLE: 10GBH IS WOO10GBH.
5. STATIC GRD.

NOTE: EFFECTIVE VAFB.

Figure 6-22. Mark 3 Ground Test (Short Circuit Monitor) (Sheet 1 of 2)

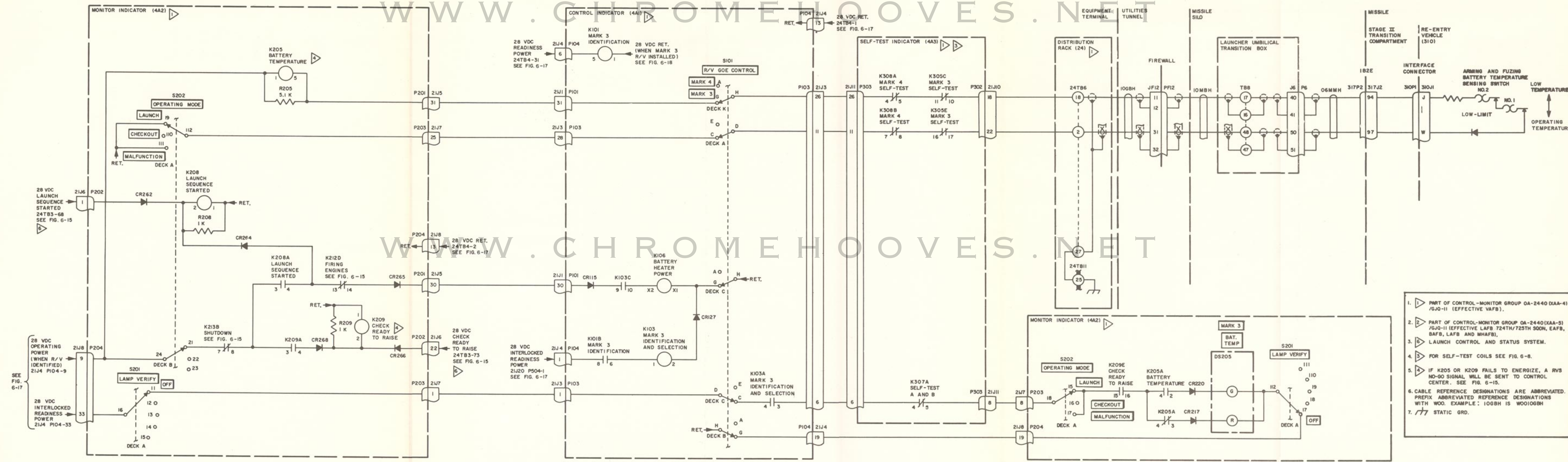
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)



NOTE: EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MAFB.

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Figure 6-23. Mark 3 Ground Test (Short Circuit Monitor) (Sheet 2 of 2)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)



NOTE: EFFECTIVE VAFB.

1. PART OF CONTROL-MONITOR GROUP OA-2440 (XAA-4) /GJO-II (EFFECTIVE VAFB).
2. PART OF CONTROL-MONITOR GROUP OA-2440 (XAA-5) /GJO-II (EFFECTIVE LAFB 724TH/725TH SOON, EAFB, BAFB, LAFB AND MHAFFB).
3. LAUNCH CONTROL AND STATUS SYSTEM.
4. FOR SELF-TEST COILS SEE FIG. 6-8.
5. IF K205 OR K209 FAILS TO ENERGIZE, A RV5 NO-GO SIGNAL WILL BE SENT TO CONTROL CENTER. SEE FIG. 6-15.
6. CABLE REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX ABBREVIATED REFERENCE DESIGNATIONS WITH WOO. EXAMPLE: 10GBH IS WOO10GBH.
7. STATIC GRD.

Figure 6-23. Mark 3 Battery Temperature (Sheet 1 of 2)

Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

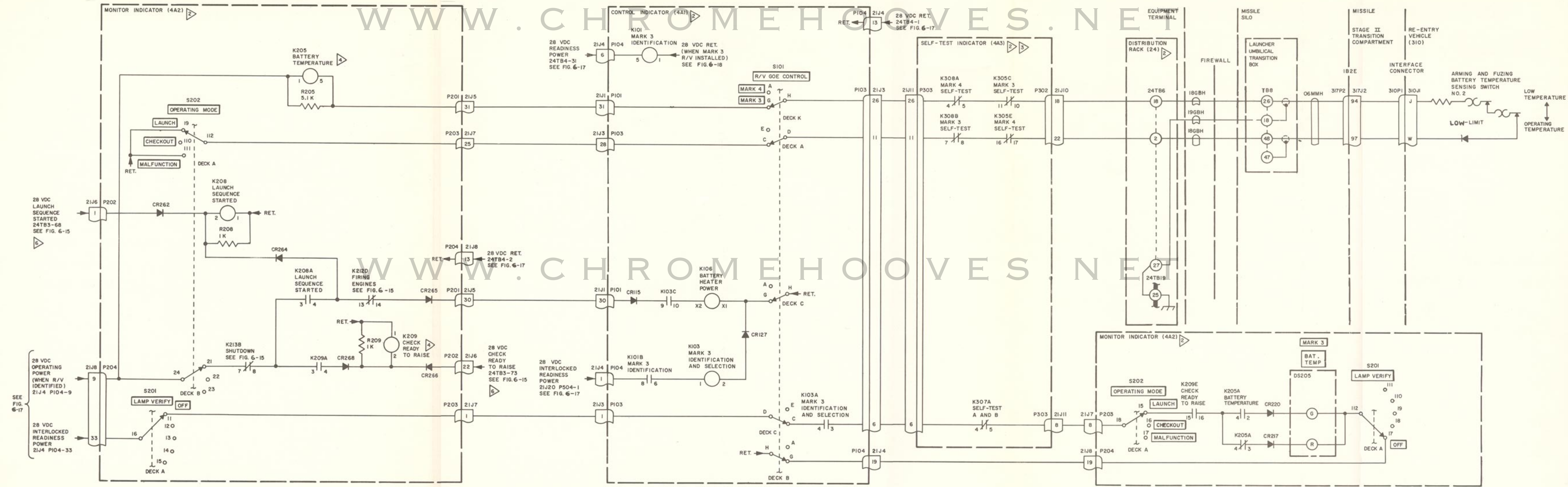
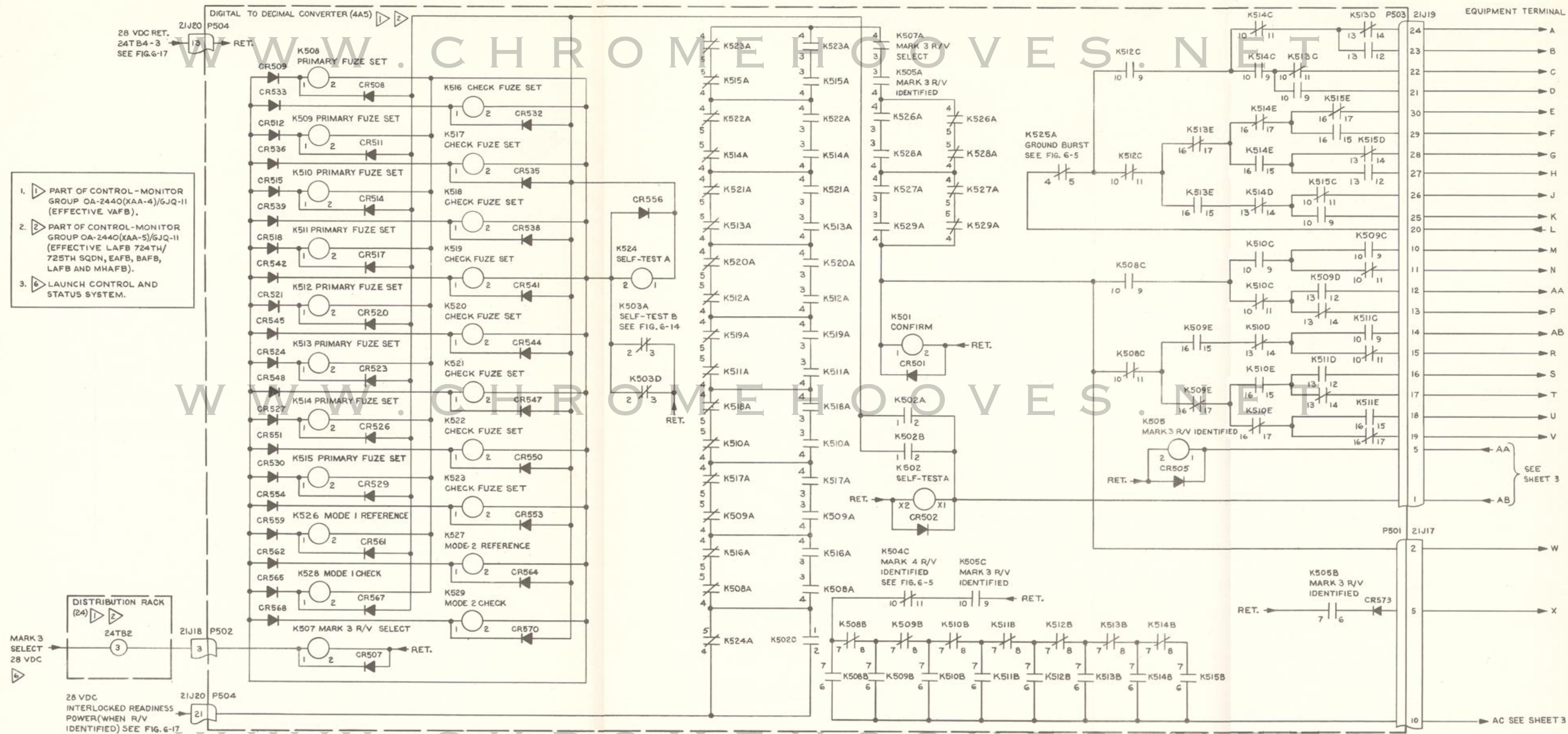


Figure 6-23. Mark 3 Battery Temperature (Sheet 2 of 2)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)



1. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-4)/GJQ-II (EFFECTIVE VAFB).
2. PART OF CONTROL-MONITOR GROUP OA-2440(XAA-5)/GJQ-II (EFFECTIVE LAFB 724TH/725TH SQDN, EAFB, BAFB, LAFB AND MHAFB).
3. LAUNCH CONTROL AND STATUS SYSTEM.

Figure 6-24. Mark 3 Fuze Set Programmer Assembly Self-Test A (Sheet 1 of 3)
 Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

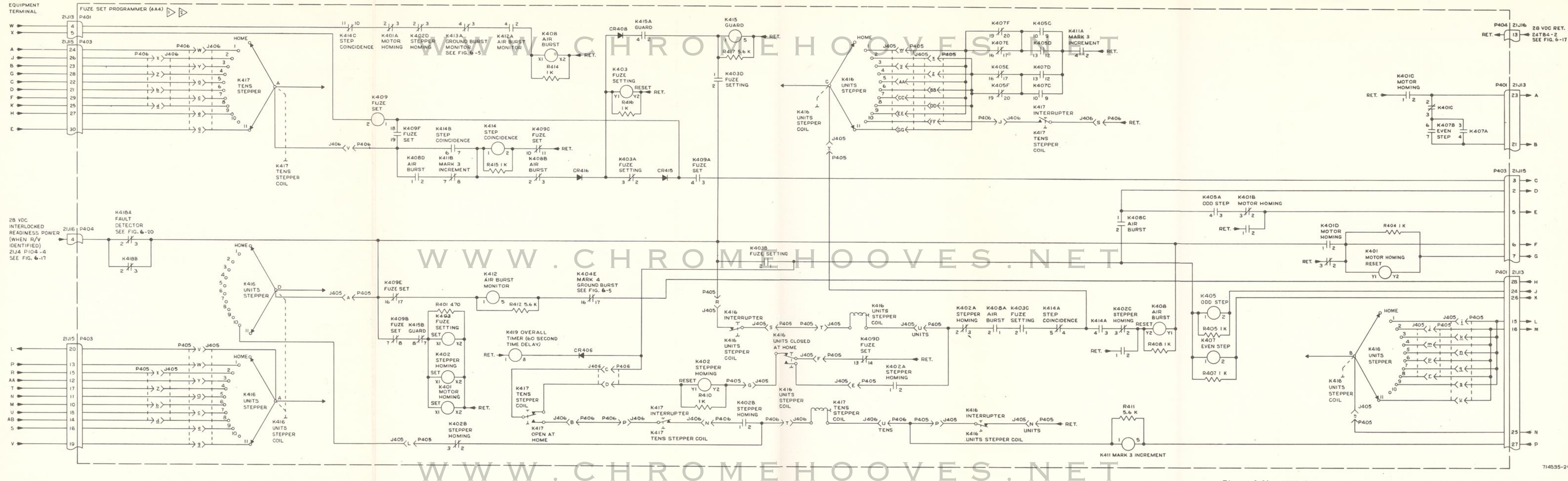
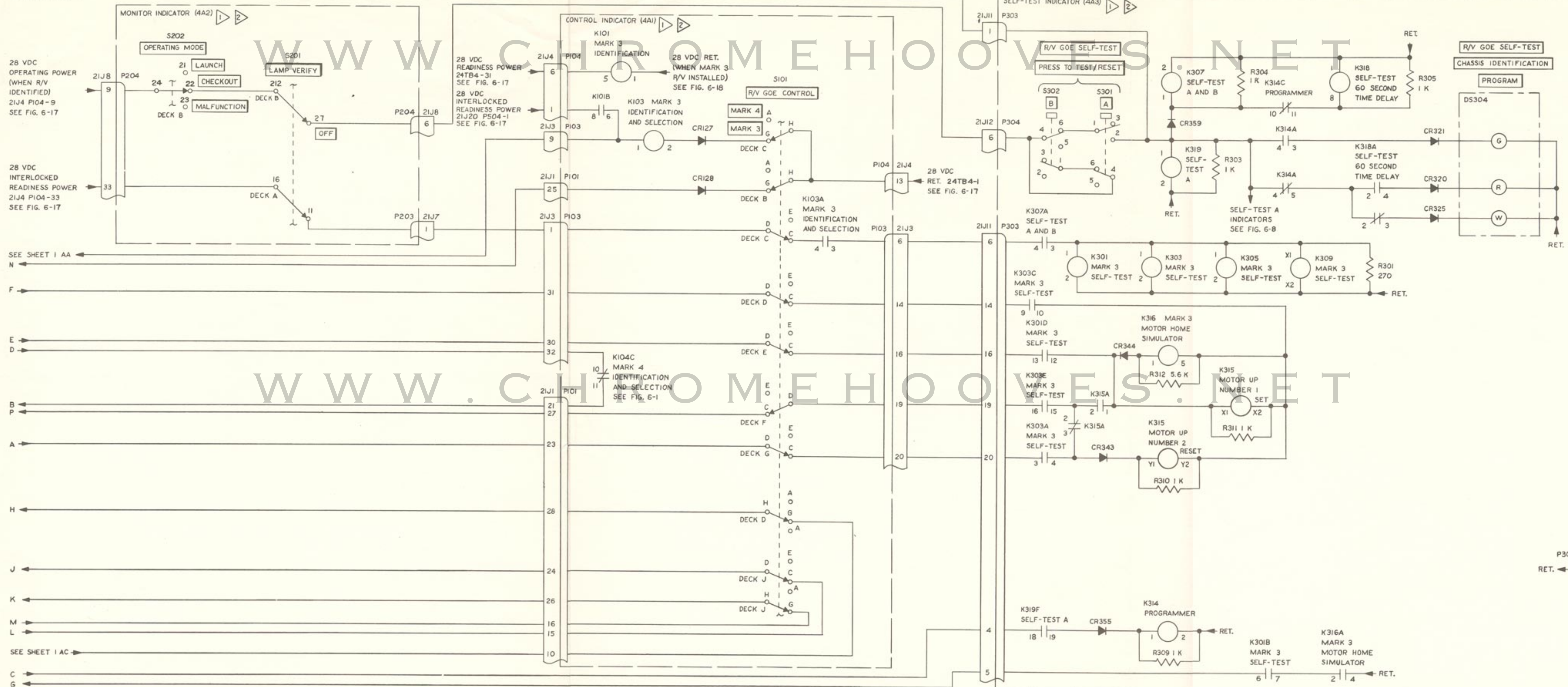


Figure 6-24. Mark 3 Fuze Set Programmer Assembly Self-Test A (Sheet 2 of 3)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)

SEE SHEET I AB



SEE SHEET I AA

F

E

D

B

A

H

J

K

M

L

SEE SHEET I AC

C

G

P304 21J12 28 VDC RET. 24TB4-3 SEE FIG. 6-17

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Figure 6-24. Mark 3 Fuze Set Programmer Assembly Self-Test A (Sheet 3 of 3)
Changed 23 August 1963 TOCN 2J-5-3 (DEN-18)