

**CHAPTER**

**32**

**LANDING GEAR**



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

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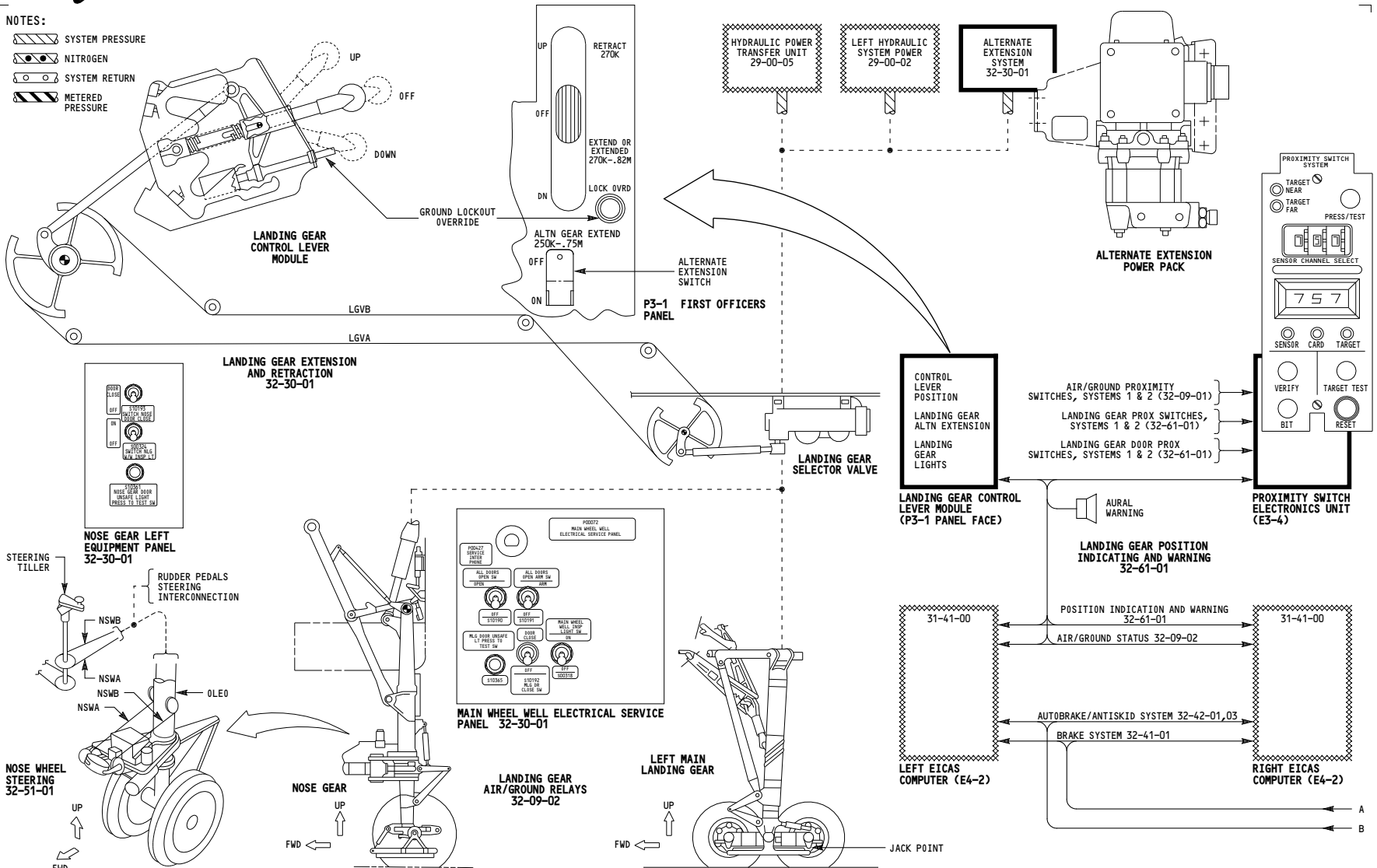
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-  SYSTEM PRESSURE
  -  NITROGEN
  -  SYSTEM RETURN
  -  METERED PRESSURE



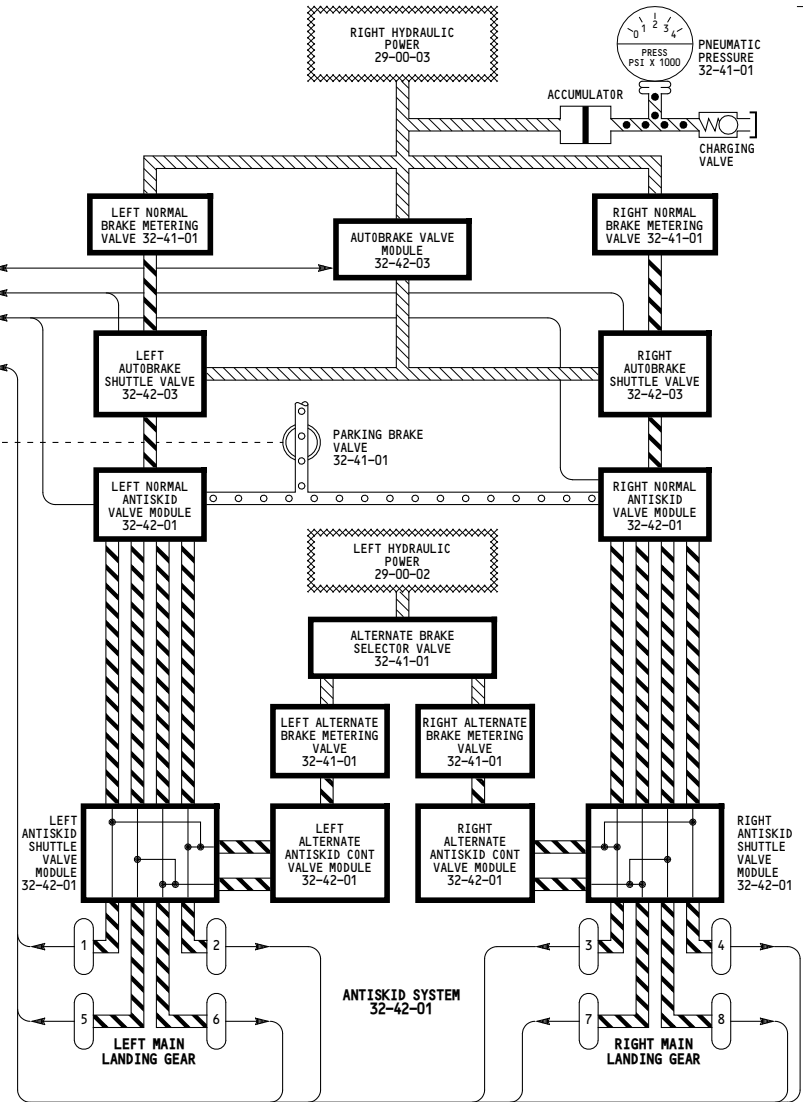
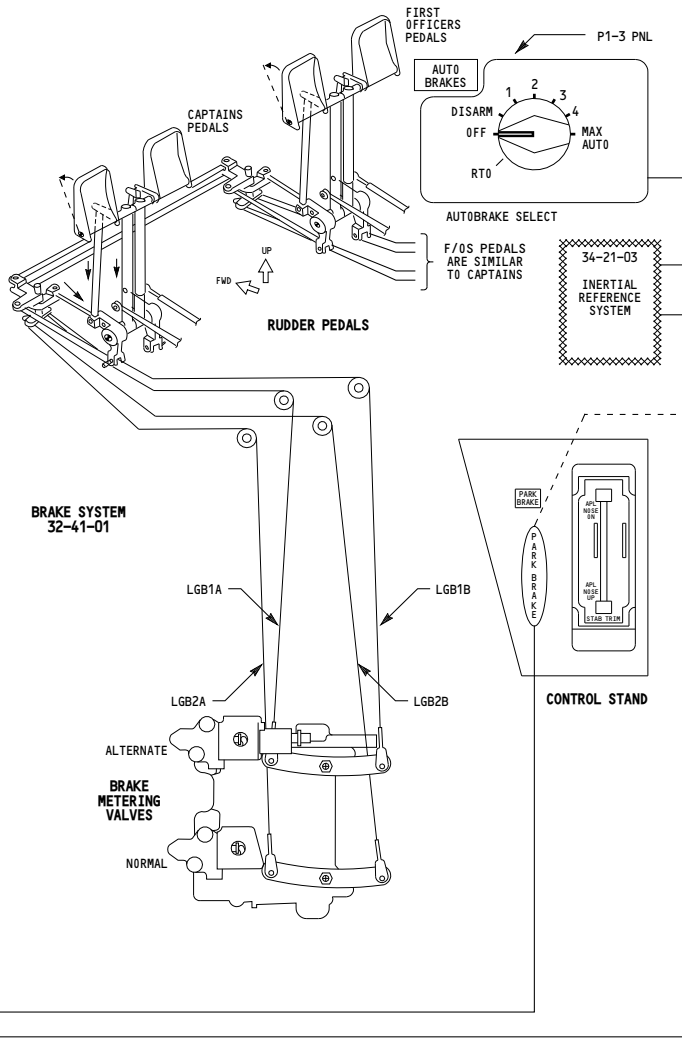
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

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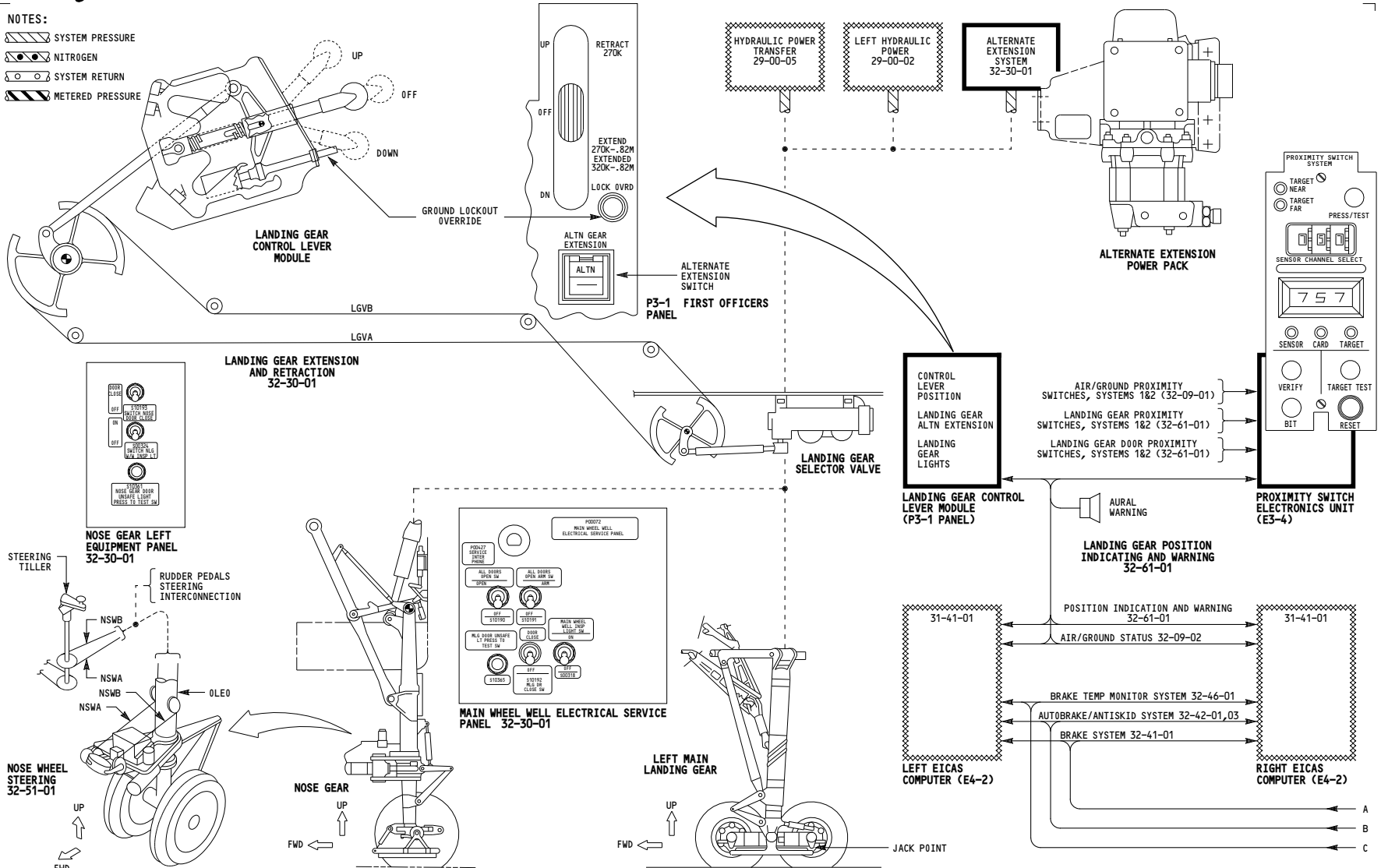
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- NOTES:**
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  -  NITROGEN
  -  SYSTEM RETURN
  -  METERED PRESSURE



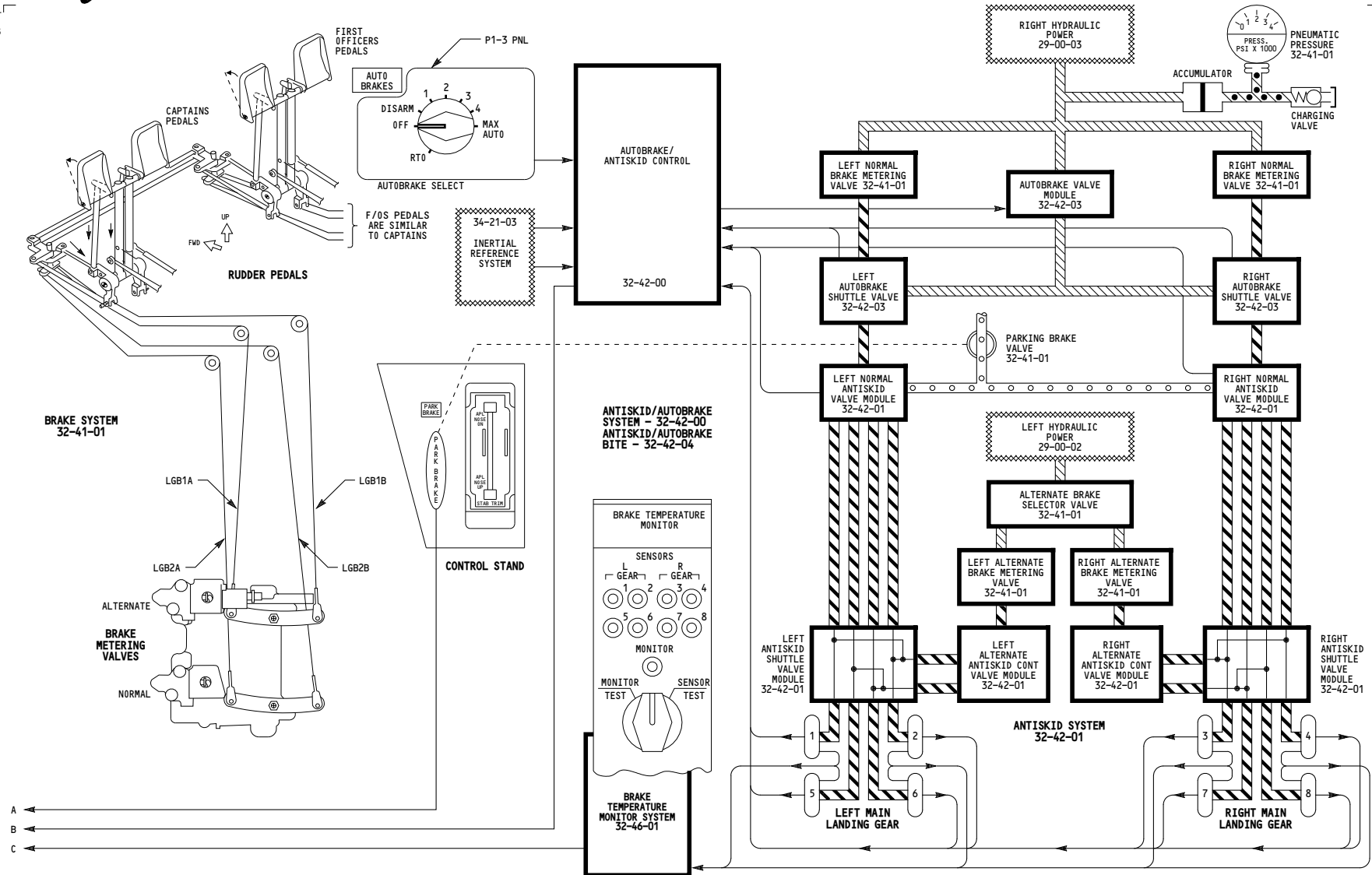
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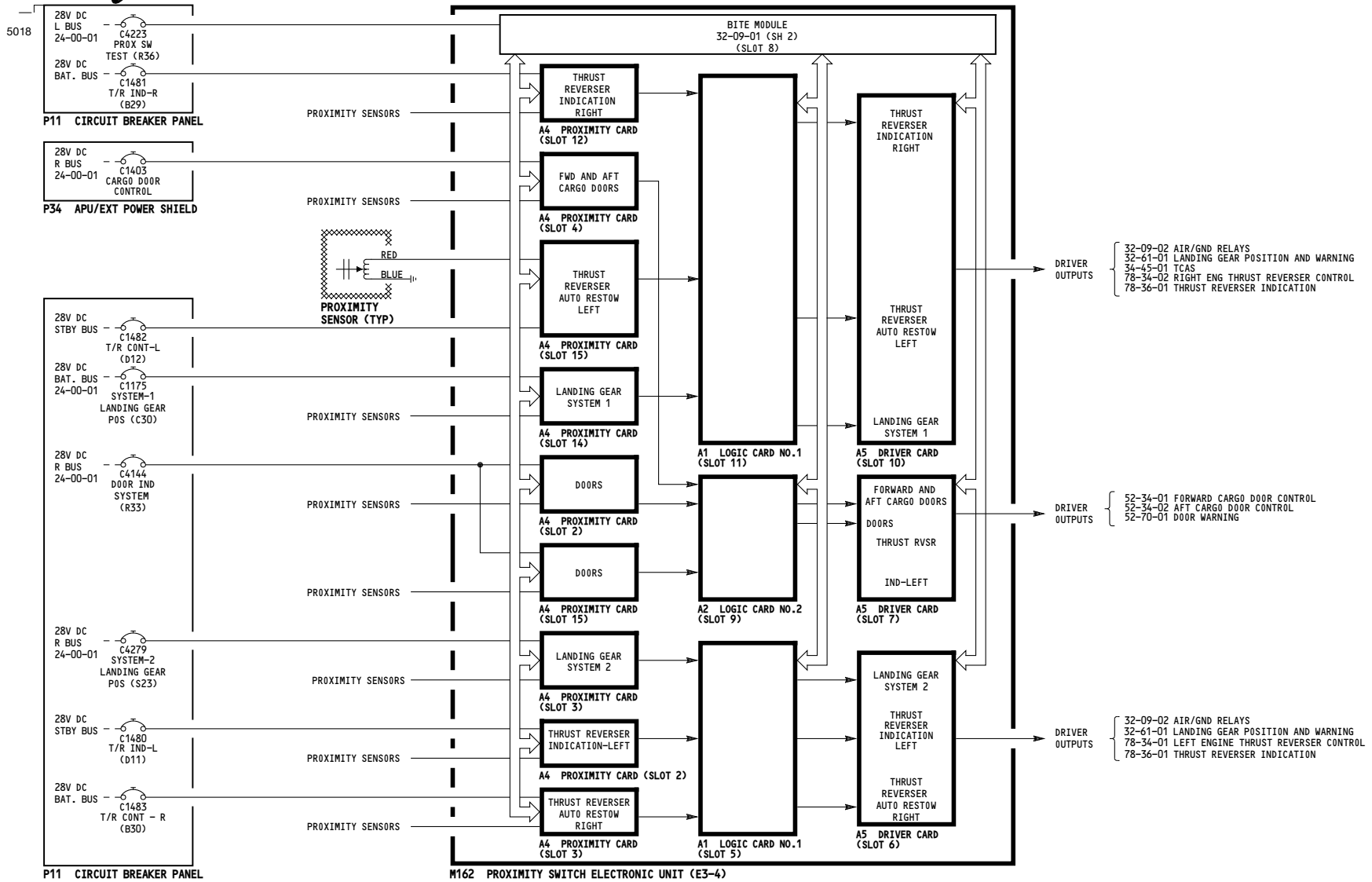


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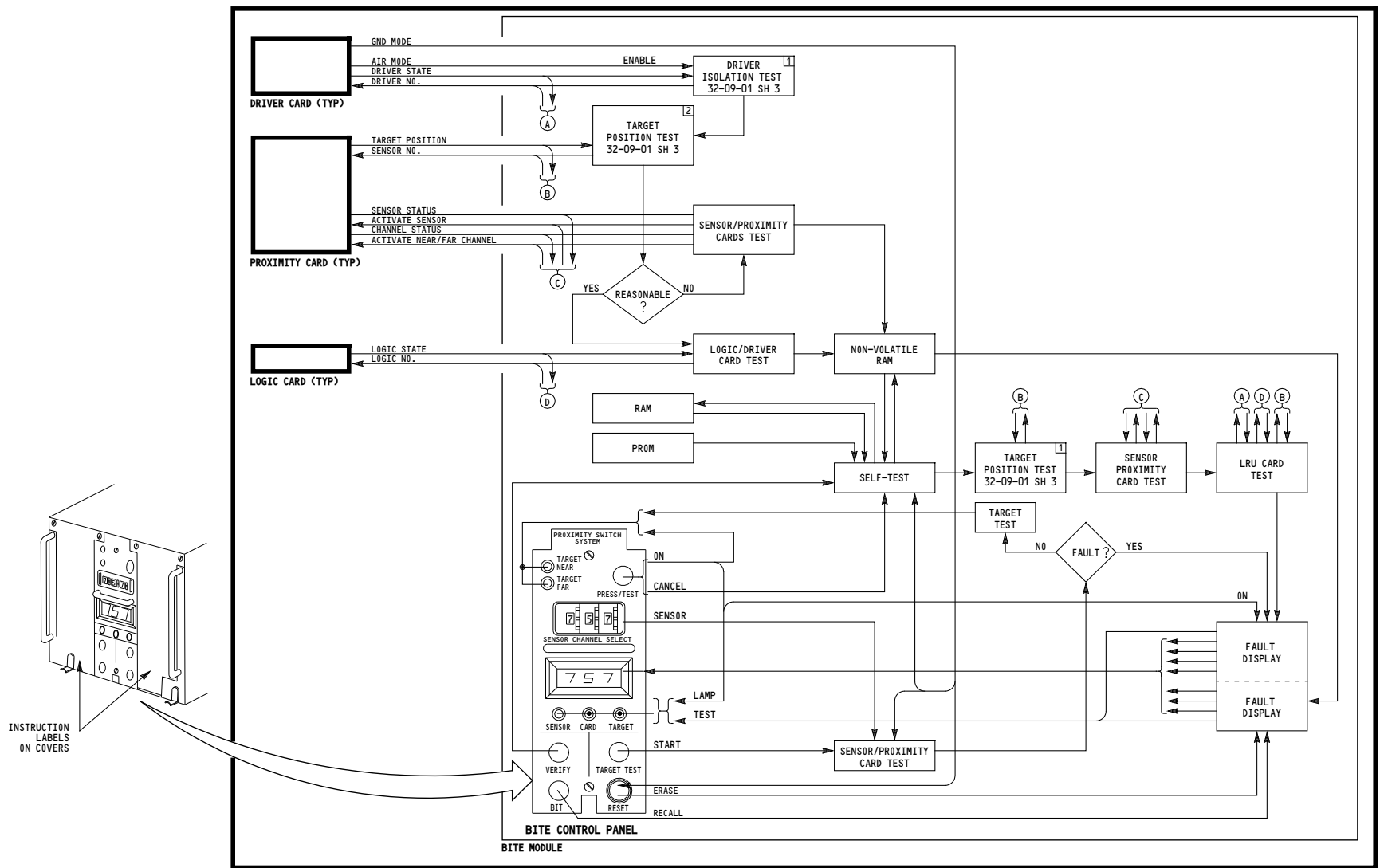
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**PROXIMITY SWITCH ELECTRONIC UNIT**

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M162(YTF) PROXIMITY SWITCH ELECTRONIC UNIT (E3-4)

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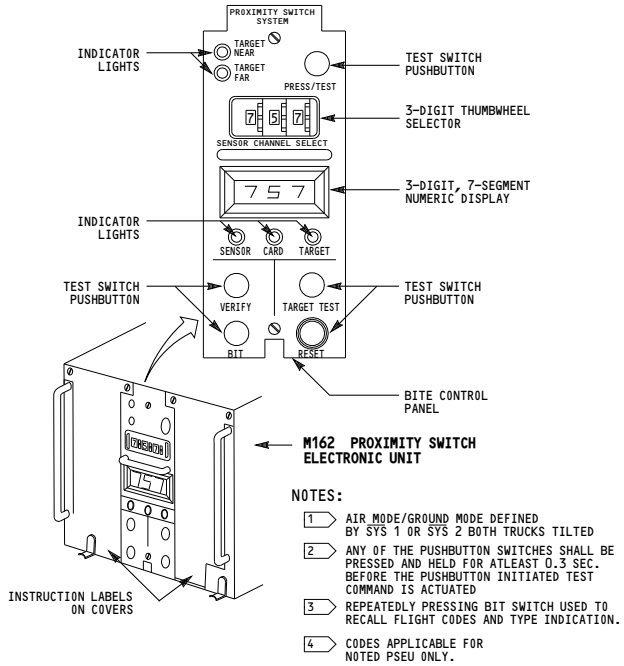
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| BITE TEST LEVEL  | TEST INITIATION                                  | DISPLAY INITIATION            | FAULT/TEST DESCRIPTION  | FAULT/TEST DISPLAY  | REMARKS   |
|------------------|--|-------------------------------|---|---|---|
| AIR MODE<br>1    | TABLE 1<br>ANY LINE,<br>ALL COLUMNS<br>SATISFIED | 2<br>PRESS BIT<br>PRESS RESET | (A) SENSORS CHECKED FOR OPEN AND SHORT CIRCUITS (TABLE 3)<br>(B) ELECTRONIC CIRCUITS INDIVIDUALLY TESTED.<br>(C) TARGET DISCREPANCIES (SENSOR GROUPS) CHECKED FOR REASONABLENESS OF POSITION (TABLE 2)  | LRU NO.<br>7 5 7<br>LRU TYPE SENSOR CARD TARGET                             | (A) SUCCESSIVE PUSHBUTTON DEPRESSION SHALL RECALL MEMORY CONTENTS ON A LAST IN-FIRST OUT BASIS.<br>(B) "000" DISPLAYED WHEN MEMORY CONTAINS NO LRU ENTRIES OR ALL ENTRIES HAVE BEEN RECALLED.<br>(C) MEMORY CONTENTS ERASED BY RESET BUTTON "EEE" WILL BE DISPLAYED                         |
| GROUND MODE<br>1 | PRESS VERIFY                                     |                               | (A) SENSORS CHECKED FOR OPEN AND SHORT CIRCUITS (TABLE 3)<br>(B) SENSOR CIRCUIT CHECKED FOR TARGET NEAR AND TARGET FAR MODES FUNCTIONALLY TESTED.<br>(C) LOGIC AND OUTPUT DRIVER CIRCUITS FUNCTIONALLY TESTED.<br>(D) TARGET DISCREPANCIES (SENSOR GROUPS) CHECKED FOR REASONABLENESS OF POSITION (TABLE 2) | LRU NO.<br>7 5 7<br>LRU TYPE SENSOR CARD TARGET                             | (A) WHEN A DISCREPANT LRU IS DETECTED AND IDENTIFIED, THE TEST IS INTERRUPTED AND THE LRU IS DISPLAYED AND IDENTIFIED.<br>(B) TEST CONTINUATION INITIATED BY DEPRESSING VERIFY TEST SWITCH.<br>(C) "999" DISPLAYED ON COMPLETION OF TEST.<br>(D) "CCC" FLASHING INDICATES TEST IN PROGRESS. |
| TARGET           | SELECT LRU #<br>7 5 7<br>SENSOR CHANNEL SELECT   | PRESS TARGET TEST             | TARGET POSITION CHECKED WITH RESPECT TO ITS SENSOR  | TARGET NEAR<br>TARGET FAR<br>TARGET POSITION<br>LRU TYPE SENSOR CARD TARGET | (A) DISPLAY SHALL BE BLANK IF INVALID LRU NO. IS SELECTED (TABLE 3)<br>(B) CHANNEL FIRST CHECKED FOR CONTINUITY AND PROPER OPERATION, THEN FOR TARGET NEAR OR FAR   |
| LAMP             | PRESS PRESS/TEST                                 |                               | LAMPS AND 3-DIGIT DISPLAY TESTED  | TARGET NEAR<br>TARGET FAR<br>SENSOR CARD TARGET<br>7 5 7                    | (A) "888" DISPLAYED ON 3 DIGIT DISPLAY<br>(B) AMBER LIGHTS ILLUMINATED  |

| REF      | SYSTEM/MODE                                 | PSEU CODE FOR SENSORS WITH               |  | BITE      |           |
|----------|---|--|--|-----------|-----------|
|          |   | TARGET NEAR                              | TARGET FAR                               | IN FLIGHT | ON GROUND |
| 52-70-01 | DOOR SYSTEM:<br>DOORS CLOSED                | 008, 085, 086<br>088, THRU 097           | NONE                                     | YES       | —         |
| 32-61-01 | LANDING GEAR SYSTEM NO.1<br>MODE: EXTENDED  | 241, 242, 243,<br>057, 065, 066, 061     | 238, 239, 240                            | YES       | YES       |
|          | LANDING GEAR SYSTEM NO.2<br>MODE: RETRACTED | 238, 239, 240, 241<br>242, 243, 065      | 057, 066, 061                            | YES       | —         |
|          | LANDING GEAR SYTEM NO.2<br>MODE: EXTENDED   | 072, 076, 081, 070<br>076, 079, 074      | 077, 069, 073                            | YES       | YES       |
| 32-09-02 | TILT SENSORS<br>MODE: GROUND                | 059, 064<br>060, 062                     | 067, 068                                 | YES       | —         |
|          | TILT SENSORS<br>MODE: AIR                   | 067, 068                                 | 059, 064<br>060, 062                     | —         | YES       |
| 78-36-01 | THRUST REVERSER<br>LEFT ENGINE-MODE STOWED  | 164, 165(-16 PSEU)<br>435, 436(-17 PSEU) | 166, 167(-16 PSEU)<br>437, 438(-17 PSEU) | YES       | YES       |
|          | THRUST REVERSER<br>RIGHT ENGINE-MODE STOWED | 170, 171                                 | 172, 173                                 | YES       | YES       |



| REF                  | TABLE 1 IN FLIGHT TEST INITIATION               |             |
|----------------------|---|-------------|
|                      | LOAD & FUNCTION                                 | DELAY (SEC) |
| 78-36-01             | L6 EITHER ACTUATOR UNLOCKED - LEFT ENGINE       | 5           |
|                      | L9 EITHER ACTUATOR UNLOCKED - RIGHT ENGINE      | 5           |
|                      | L18 ANY ACCESS DOOR UNSAFE                      | 2           |
| 52-70-01             | L19 ANY CARGO DOOR UNSAFE                       | 2           |
|                      | L32 ANY ENTRY DOOR UNSAFE                       | 2           |
|                      | L33 ANY EMERGENCY DOOR UNSAFE                   | 2           |
| 32-61-01             | L44B ANY GEAR NOT IN SELECTED POSITION SYSTEM 1 | 60          |
|                      | L65B ANY GEAR NOT IN SELECTED POSITION SYSTEM 2 | 60          |
| 32-09-01<br>32-09-02 | L59A, B, C, D ON GROUND SYSTEM 2                | 5           |
|                      | L38A, B, C, D ON GROUND SYSTEM 1                | 5           |
|                      | L53 NOSE GEAR COMPRESSED SYSTEM 1               | 5           |
|                      | L74 NOSE GEAR COMPRESSED SYSTEM 2               | 5           |

| SENSOR NO.  | DESCRIPTION                   | SENSOR CODE | SENSOR NO.                   | DESCRIPTION                    | SENSOR CODE |
|---|-------------------------------|-------------|------------------------------|--------------------------------|-------------|
| <b>CARGO DOOR CONTROL</b>                         |                               |             |                              |                                |             |
| S10350  | FWD DOOR OPEN A               | 350         | <b>LANDING GEAR SYSTEM 1</b> |                                |             |
| S10352  | FWD DOOR DOWN A               | 352         | S10238                       | NOSE GEAR UP                   | 238         |
| S10353  | FWD DOOR DOWN B               | 353         | S10239                       | RIGHT GEAR UP AND LK           | 239         |
| S10357  | AFT DOOR OPEN A               | 357         | S10240                       | LEFT GEAR UP AND LK            | 240         |
| S10359  | AFT DOOR DOWN A               | 359         | S10241                       | RIGHT GEAR DOOR CLOSED         | 241         |
| S10360  | AFT DOOR DOWN B               | 360         | S10242                       | LEFT GEAR DOOR CLOSED          | 242         |
| <b>THRUST REFERSER INDICATION - LEFT ENGINE</b>   |                               |             |                              |                                |             |
| -17, -24 -16                                      |                               |             |                              |                                |             |
| S164  | LEFT ACTUATOR LOCKED          | 435, 164    | S10067                       | NOSE GEAR NOT COMPRESSED       | 067         |
| S165  | RIGHT ACTUATOR LOCKED         | 436, 165    | S10057                       | RIGHT GEAR ON AND LK           | 057         |
| S166  | LEFT COWL DEPLOYED            | 437, 166    | S10065                       | NOSE GEAR LOCKED               | 065         |
| S167  | RIGHT COWL DEPLOYED           | 438, 167    | S10066                       | NOSE GEAR DOWN                 | 066         |
| <b>THRUST REVERSER INDICATION - RIGHT ENGINE</b>  |                               |             |                              |                                |             |
| -17, -24 -16                                      |                               |             |                              |                                |             |
| S10105  | REVERSER STOWED LEFT          | 433, 105    | S10061                       | LEFT GEAR ON AND LK            | 061         |
| S10108  | REVERSER STOWED RIGHT         | 434, 108    | S10060                       | RIGHT TRUCK NOT TILTED         | 060         |
| <b>LANDING GEAR SYSTEM 2</b>                      |                               |             |                              |                                |             |
| <b>THRUST REVERSER AUTO RESTOW - LEFT ENGINE</b>  |                               |             |                              |                                |             |
| -17, -24 -16                                      |                               |             |                              |                                |             |
| S10077  | NOSE GEAR UP                  | 077         | S10078                       | NOSE GEAR LOCKED               | 078         |
| S10069  | RIGHT GEAR UP AND LK          | 069         | S10079                       | NOSE GEAR DOWN                 | 079         |
| S10073  | LEFT GEAR UP AND LK           | 073         | S10074                       | LEFT GEAR ON AND LK            | 074         |
| S10072  | RIGHT GEAR DOOR CLOSED        | 072         | S10059                       | RIGHT TRUCK NOT TILTED         | 059         |
| S10076  | LEFT GEAR DOOR CLOSED         | 076         | S10064                       | LEFT TRUCK NOT TILTED          | 064         |
| S10081  | NOSE GEAR DOOR CLOSED         | 081         | <b>DOOR SYSTEMS</b>          |                                |             |
| S10068  | NOSE GEAR NOT COMPRESSED      | 068         | S10083                       | FWD CARGO DOOR LOCKED          | 083         |
| S10070  | RIGHT GEAR ON AND LK          | 070         | S10085                       | FWD ACCESS DOOR LOCKED         | 085         |
| S10078  | NOSE GEAR LOCKED              | 078         | S10086                       | E/E ACCESS DOOR LOCKED         | 086         |
| S10079  | NOSE GEAR DOWN                | 079         | S10088                       | AFT CARGO DOOR NO.1 LOCKED     | 088         |
| S10074  | LEFT GEAR ON AND LK           | 074         | S10089                       | AFT CARGO DOOR NO.2 LOCKED     | 089         |
| S10059  | RIGHT TRUCK NOT TILTED        | 059         | S10090                       | RIGHT FWD DOOR LOCKED          | 090         |
| S10064  | LEFT TRUCK NOT TILTED         | 064         | S10091                       | RIGHT CENTER ENTRY DOOR LOCKED | 091         |
| <b>THRUST REVERSER AUTO RESTOW - RIGHT ENGINE</b> |                               |             |                              |                                |             |
| -17, -24 -16                                      |                               |             |                              |                                |             |
| S10093  | RIGHT AFT ENRY DOOR LOCKED    | 093         | S10092                       | RIGHT EMERGENCY DOOR LOCKED    | 092         |
| S10094  | LEFT FWD ENTRY DOOR LOCKED    | 094         | S10093                       | RIGHT AFT ENRY DOOR LOCKED     | 093         |
| S10095  | LEFT CENTER ENTRY DOOR LOCKED | 095         | S10094                       | LEFT FWD ENTRY DOOR LOCKED     | 094         |
| S10096  | LEFT EMERGENCY DOOR LOCKED    | 096         | S10095                       | LEFT CENTER ENTRY DOOR LOCKED  | 095         |
| S10097  | LEFT AFT ENTRY DOOR LOCKED    | 097         | S10096                       | LEFT EMERGENCY DOOR LOCKED     | 096         |
| S10097  | LEFT AFT ENTRY DOOR LOCKED    | 097         | S10097                       | LEFT AFT ENTRY DOOR LOCKED     | 097         |

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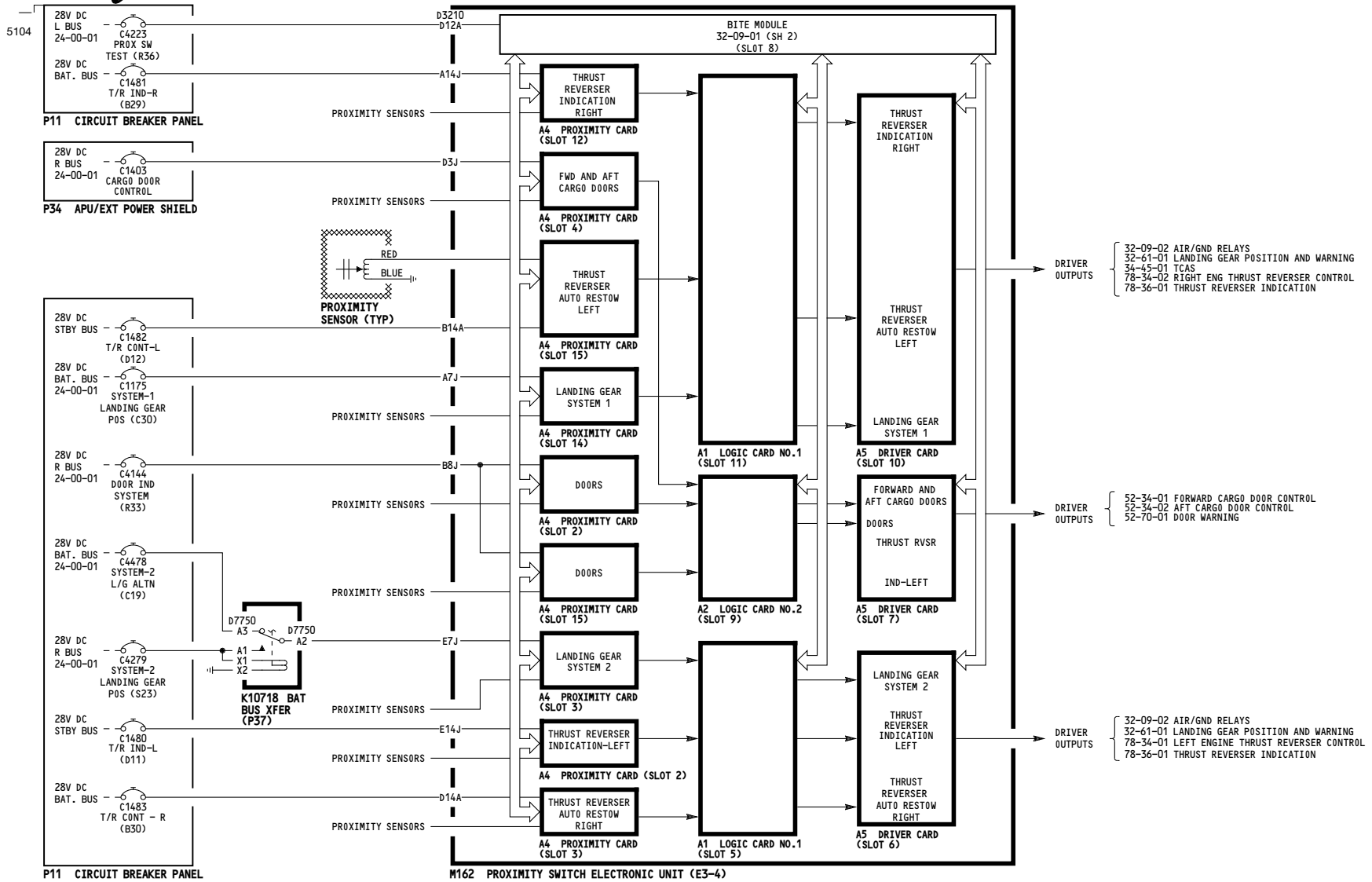
**PROXIMITY SWITCH ELECTRONIC UNIT**

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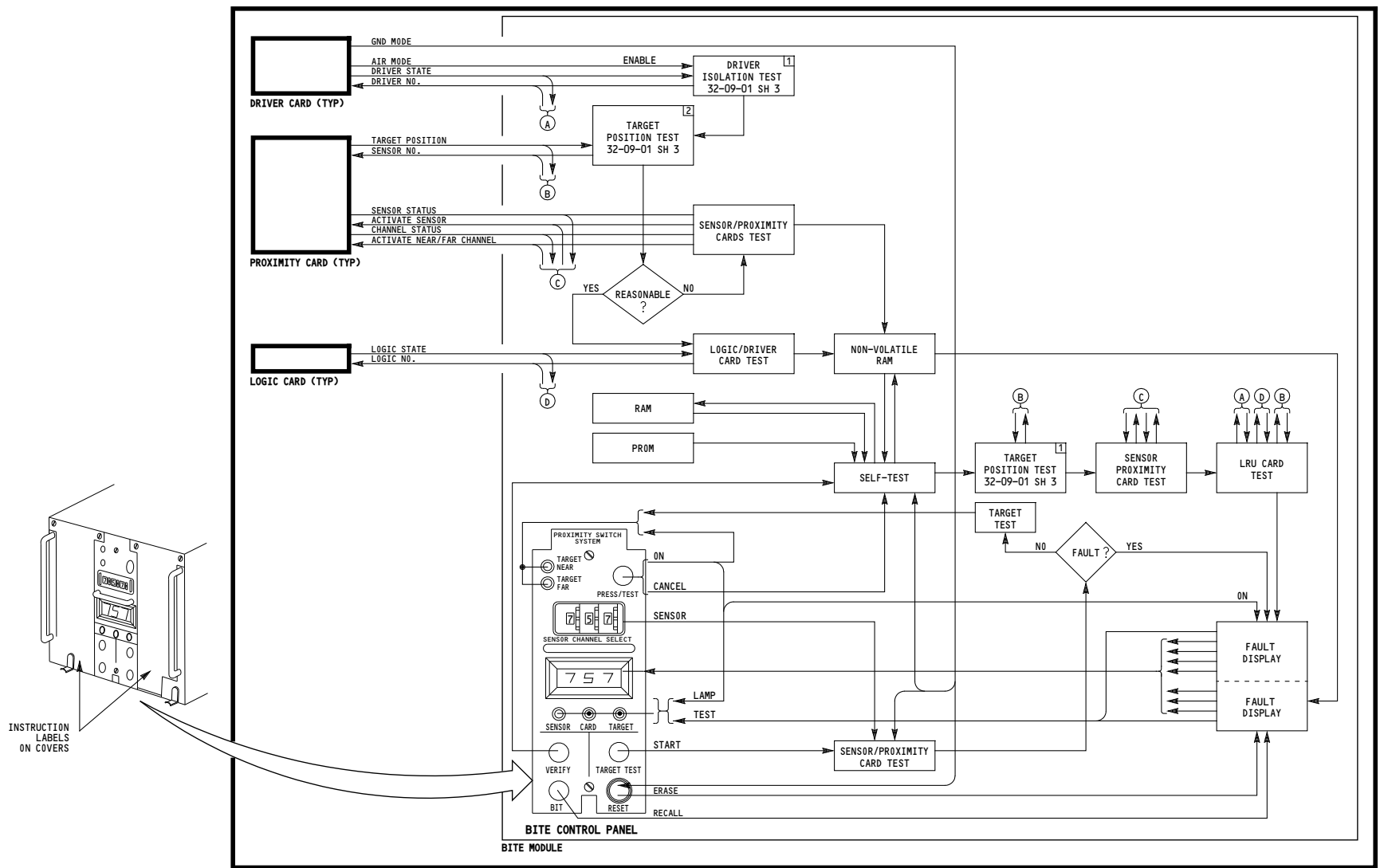
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**PROXIMITY SWITCH ELECTRONIC UNIT**

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5011



M162(YTF) PROXIMITY SWITCH ELECTRONIC UNIT (E3-4)

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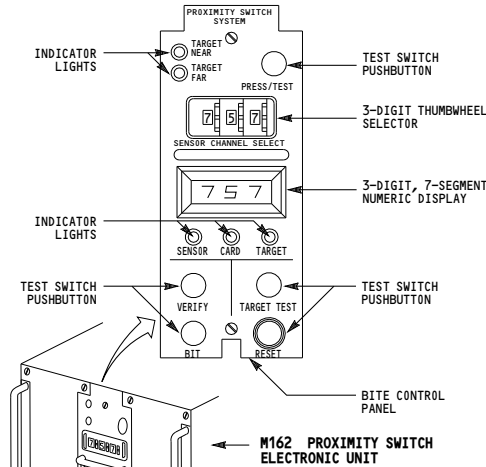
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**32-09-01**

-B-  
5011

| BITE TEST LEVEL  | TEST INITIATION                                  | DISPLAY INITIATION            | FAULT/TEST DESCRIPTION   | FAULT/TEST DISPLAY                              | REMARKS   |
|------------------|--|-------------------------------|--|---|---|
| AIR MODE<br>1    | TABLE 1<br>ANY LINE,<br>ALL COLUMNS<br>SATISFIED | 2<br>PRESS BIT<br>PRESS RESET | (A) SENSORS CHECKED FOR OPEN AND SHORT CIRCUITS (TABLE 3)<br>(B) ELECTRONIC CIRCUITS INDIVIDUALLY TESTED.<br>(C) TARGET DISCREPANCIES (SENSOR GROUPS) CHECKED FOR REASONABLENESS OF POSITION (TABLE 2)   | LRU NO.<br>7 5 7<br>LRU TYPE SENSOR CARD TARGET | (A) SUCCESSIVE PUSHBUTTON DEPRESSION SHALL RECALL MEMORY CONTENTS ON A LAST IN-FIRST OUT BASIS.<br>(B) "000" DISPLAYED WHEN MEMORY CONTAINS NO LRU ENTRIES OR ALL ENTRIES HAVE BEEN RECALLED.<br>(C) MEMORY CONTENTS ERASED BY RESET BUTTON "EEE" WILL BE DISPLAYED                         |
| GROUND MODE<br>1 | PRESS VERIFY                                     |                               | (A) SENSORS CHECKED FOR OPEN AND SHORT CIRCUITS (TABLE 3)<br>(B) SENSOR CIRCUIT CHECKED FOR TARGET NEAR AND TARGET FAR MODES<br>(C) LOGIC AND OUTPUT DRIVER CIRCUITS FUNCTIONALLY TESTED.<br>(D) TARGET DISCREPANCIES (SENSOR GROUPS) CHECKED FOR REASONABLENESS OF POSITION (TABLE 2) | LRU NO.<br>7 5 7<br>LRU TYPE SENSOR CARD TARGET | (A) WHEN A DISCREPANT LRU IS DETECTED AND IDENTIFIED, THE TEST IS INTERRUPTED AND THE LRU IS DISPLAYED AND IDENTIFIED.<br>(B) TEST CONTINUATION INITIATED BY DEPRESSING VERIFY TEST SWITCH.<br>(C) "999" DISPLAYED ON COMPLETION OF TEST.<br>(D) "CCC" FLASHING INDICATES TEST IN PROGRESS. |
| TARGET           | SELECT LRU #<br>SENSOR CHANNEL SELECT            | PRESS TARGET TEST             | TARGET POSITION CHECKED WITH RESPECT TO ITS SENSOR   | TARGET NEAR<br>TARGET FAR<br>TARGET POSITION    | (A) DISPLAY SHALL BE BLANK IF INVALID LRU NO. IS SELECTED (TABLE 3)<br>(B) CHANNEL FIRST CHECKED FOR CONTINUITY AND PROPER OPERATION, THEN FOR TARGET   |
| LAMP             | PRESS PRESS/TEST                                 |                               | LAMPS AND 3-DIGIT DISPLAY TESTED   | TARGET NEAR<br>TARGET FAR<br>SENSOR CARD TARGET | (A) "888" DISPLAYED ON 3 DIGIT DISPLAY<br>(B) AMBER LIGHTS ILLUMINATED  |

| REF      | SYSTEM/MODE                                 | PSEU CODE FOR SENSORS WITH               |  | BITE      |           |
|----------|---|--|--|-----------|-----------|
|          |   | TARGET NEAR                              | TARGET FAR                               | IN FLIGHT | ON GROUND |
| 52-70-01 | DOOR SYSTEM:<br>DOORS CLOSED                | 008, 085, 086<br>088, THRU 097           | NONE                                     | YES       | —         |
| 32-61-01 | LANDING GEAR SYSTEM NO.1<br>MODE: EXTENDED  | 241, 242, 243,<br>057, 065, 066, 061     | 238, 239, 240                            | YES       | YES       |
|          | LANDING GEAR SYSTEM NO.2<br>MODE: RETRACTED | 238, 239, 240, 241<br>242, 243, 065      | 057, 066, 061                            | YES       | —         |
|          | LANDING GEAR SYTEM NO.2<br>MODE: EXTENDED   | 072, 076, 081, 070<br>076, 079, 074      | 077, 069, 073                            | YES       | YES       |
| 32-09-02 | LANDING GEAR SYSTEM NO.2<br>MODE: RETRACTED | 078, 077, 069, 073<br>072, 076, 081      | 074, 073, 070                            | YES       | —         |
|          | TILT SENSORS<br>MODE: GROUND                | 059, 064<br>060, 062                     | 067, 068                                 | YES       | —         |
| 78-36-01 | TILT SENSORS<br>MODE: AIR                   | 067, 068                                 | 059, 064<br>060, 062                     | —         | YES       |
|          | THRUST REVERSER<br>LEFT ENGINE-MODE STOWED  | 164, 165(-16 PSEU)<br>435, 436(-17 PSEU) | 166, 167(-16 PSEU)<br>437, 438(-17 PSEU) | YES       | YES       |
|          | THRUST REVERSER<br>RIGHT ENGINE-MODE STOWED | 170, 171                                 | 172, 173                                 | YES       | YES       |



- NOTES:**
- AIR MODE/GROUND MODE DEFINED BY SYS 1 OR SYS 2 BOTH TRUCKS TILTED
  - ANY OF THE PUSHBUTTON SWITCHES SHALL BE PRESSED AND HELD FOR ATLEAST 0.3 SEC. BEFORE THE PUSHBUTTON INITIATED TEST COMMAND IS ACTUATED
  - REPEATEDLY PRESSING BIT SWITCH USED TO RECALL FLIGHT CODES AND TYPE INDICATION.
  - CODES APPLICABLE FOR NOTED PSEU ONLY.

| REF                  | TABLE 1 IN FLIGHT TEST INITIATION               |             |
|----------------------|---|-------------|
|                      | LOAD & FUNCTION                                 | DELAY (SEC) |
| 78-36-01             | L6 EITHER ACTUATOR UNLOCKED - LEFT ENGINE       | 5           |
|                      | L9 EITHER ACTUATOR UNLOCKED - RIGHT ENGINE      | 5           |
|                      | L18 ANY ACCESS DOOR UNSAFE                      | 2           |
| 52-70-01             | L19 ANY CARGO DOOR UNSAFE                       | 2           |
|                      | L32 ANY ENTRY DOOR UNSAFE                       | 2           |
|                      | L33 ANY EMERGENCY DOOR UNSAFE                   | 2           |
| 32-61-01             | L44B ANY GEAR NOT IN SELECTED POSITION SYSTEM 1 | 60          |
|                      | L65B ANY GEAR NOT IN SELECTED POSITION SYSTEM 2 | 60          |
| 32-09-01<br>32-09-02 | L59A, B, C, D ON GROUND SYSTEM 2                | 5           |
|                      | L38A, B, C, D ON GROUND SYSTEM 1                | 5           |
|                      | L53 NOSE GEAR COMPRESSED SYSTEM 1               | 5           |
|                      | L74 NOSE GEAR COMPRESSED SYSTEM 2               | 5           |

| SENSOR NO.                                       | DESCRIPTION                   | SENSOR CODE | SENSOR NO. | DESCRIPTION                   | SENSOR CODE |
|--|-------------------------------|-------------|------------|-------------------------------|-------------|
| <b>CARGO DOOR CONTROL</b>                        |                               |             |            |                               |             |
| <b>LANDING GEAR SYSTEM 1</b>                     |                               |             |            |                               |             |
| S10238   | NOSE GEAR UP                  | 238         | S10239     | RIGHT GEAR UP AND LK          | 239         |
| S10352   | FWD DOOR DOWN A               | 352         | S10240     | LEFT GEAR UP AND LK           | 240         |
| S10353   | FWD DOOR DOWN B               | 353         | S10241     | RIGHT GEAR DOOR CLOSED        | 241         |
| S10357   | AFT DOOR OPEN A               | 357         | S10242     | LEFT GEAR DOOR CLOSED         | 242         |
| S10359   | AFT DOOR DOWN A               | 359         | S10243     | NOSE GEAR DOOR CLOSED         | 243         |
| S10360   | AFT DOOR DOWN B               | 360         | S10067     | NOSE GEAR NOT COMPRESSED      | 067         |
| <b>THRUST REFRERER INDICATION - LEFT ENGINE</b>  |                               |             |            |                               |             |
| -17, -24 -16                                     |                               |             |            |                               |             |
| S164   | LEFT ACTUATOR LOCKED          | 435, 164    | S10057     | RIGHT GEAR ON AND LK          | 057         |
| S165   | RIGHT ACTUATOR LOCKED         | 436, 165    | S10065     | NOSE GEAR LOCKED              | 065         |
| S166   | LEFT COWL DEPLOYED            | 437, 166    | S10066     | NOSE GEAR DOWN                | 066         |
| S167   | RIGHT COWL DEPLOYED           | 438, 167    | S10061     | LEFT GEAR ON AND LK           | 061         |
| <b>THRUST REVERSER INDICATION - RIGHT ENGINE</b> |                               |             |            |                               |             |
| -17, -24 -16                                     |                               |             |            |                               |             |
| S10105   | REVERSER STOWED LEFT          | 433, 105    | S10060     | RIGHT TRUCK NOT TILTED        | 060         |
| S10108   | REVERSER STOWED RIGHT         | 434, 108    | S10062     | LEFT TRUCK NOT TILTED         | 062         |
| <b>LANDING GEAR SYSTEM 2</b>                     |                               |             |            |                               |             |
| S10077   | NOSE GEAR UP                  | 077         | S10069     | RIGHT GEAR UP AND LK          | 069         |
| S10073   | LEFT GEAR UP AND LK           | 073         | S10072     | RIGHT GEAR DOOR CLOSED        | 072         |
| S10072   | RIGHT GEAR DOOR CLOSED        | 072         | S10076     | LEFT GEAR DOOR CLOSED         | 076         |
| S10076   | LEFT GEAR DOOR CLOSED         | 076         | S10081     | NOSE GEAR DOOR CLOSED         | 081         |
| S10081   | NOSE GEAR DOOR CLOSED         | 081         | S10068     | NOSE GEAR NOT COMPRESSED      | 068         |
| <b>THRUST REVERSER AUTO RESTOW - LEFT ENGINE</b> |                               |             |            |                               |             |
| -17, -24 -16                                     |                               |             |            |                               |             |
| S10074   | LEFT GEAR ON AND LK           | 074         | S10078     | NOSE GEAR LOCKED              | 078         |
| S10059   | RIGHT TRUCK NOT TILTED        | 059         | S10079     | NOSE GEAR DOWN                | 079         |
| S10064   | LEFT TRUCK NOT TILTED         | 064         | S10074     | LEFT GEAR ON AND LK           | 074         |
| <b>DOOR SYSTEMS</b>                              |                               |             |            |                               |             |
| S10083   | FWD CARGO DOOR LOCKED         | 083         | S10090     | RIGHT FWD DOOR LOCKED         | 090         |
| S10085   | FWD ACCESS DOOR LOCKED        | 085         | S10091     | RIGHT CENTER ENRY DOOR LOCKED | 091         |
| S10086   | E/E ACCESS DOOR LOCKED        | 086         | S10092     | RIGHT EMERGENCY DOOR LOCKED   | 092         |
| S10088   | AFT CARGO DOOR NO.1 LOCKED    | 088         | S10093     | RIGHT AFT ENRY DOOR LOCKED    | 093         |
| S10089   | AFT CARGO DOOR NO.2 LOCKED    | 089         | S10094     | LEFT FWD ENRY DOOR LOCKED     | 094         |
| S10090   | RIGHT FWD DOOR LOCKED         | 090         | S10095     | LEFT CENTER ENTRY DOOR LOCKED | 095         |
| S10091   | RIGHT CENTER ENRY DOOR LOCKED | 091         | S10096     | LEFT EMERGENCY DOOR LOCKED    | 096         |
| S10092   | RIGHT EMERGENCY DOOR LOCKED   | 092         | S10097     | LEFT AFT ENTRY DOOR LOCKED    | 097         |
| S10093   | RIGHT AFT ENRY DOOR LOCKED    | 093         |            |                               |             |
| S10094   | LEFT FWD ENRY DOOR LOCKED     | 094         |            |                               |             |
| S10095   | LEFT CENTER ENTRY DOOR LOCKED | 095         |            |                               |             |
| S10096   | LEFT EMERGENCY DOOR LOCKED    | 096         |            |                               |             |
| S10097   | LEFT AFT ENTRY DOOR LOCKED    | 097         |            |                               |             |

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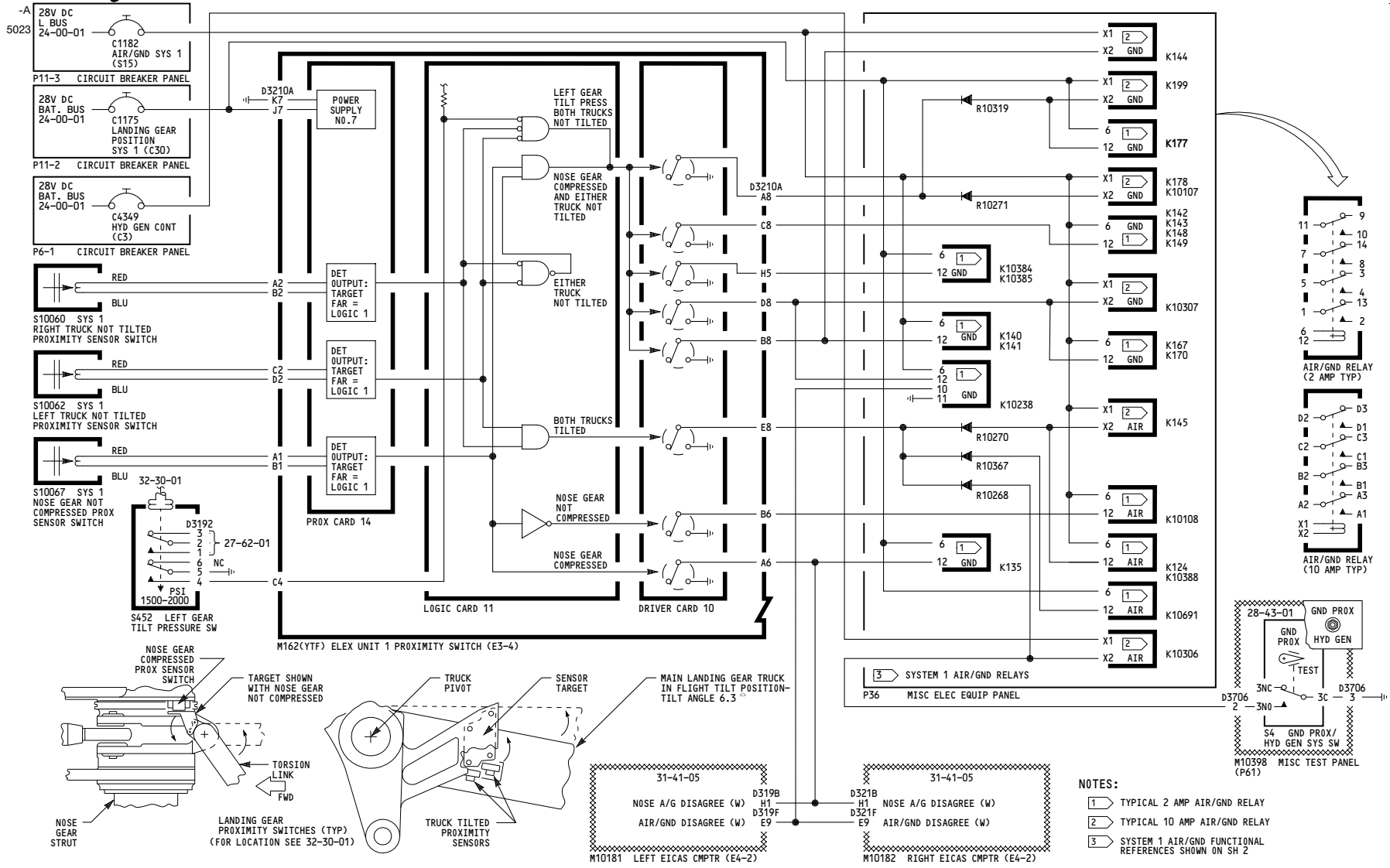
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|                  |                                       |
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| 001-002          | <b>LANDING GEAR AIR/GROUND RELAYS</b> |
| <b>D280N032S</b> |                                       |

**32-09-02**



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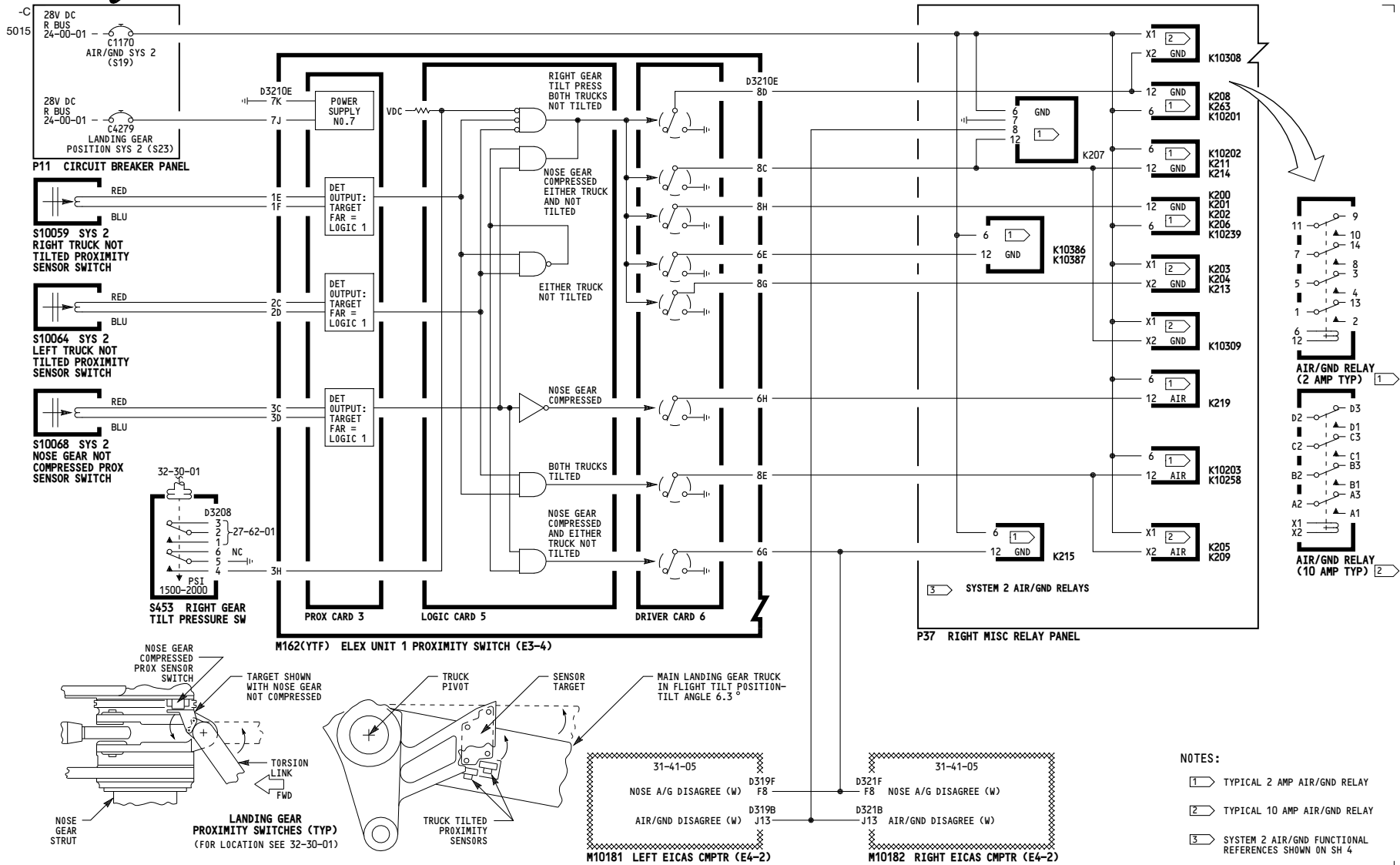
| RELAY                | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC  |          |
|----------------------|-----------|----|----|------------------------|---|--|----------|
|                      | ENERGIZED | C  | NC | NO                     |   |  |          |
| K124<br>D582<br>AIR  | 5         | 3  | 4  |                        | ACARS INPUT   | 23-22-01   |          |
|                      | 1         | 13 | 2  |                        | ENABLES L RECIRC FAN  | 21-25-01   |          |
|                      | 7         | 14 | 8  |                        | INHIBITS EQUIP COOL. GND HORN   | 21-58-01   |          |
| K135<br>D1780<br>GND | 11        | 9  | 10 |                        | PROVIDES "ON GND" INPUT TO CSEU                                       | PROVIDES "IN AIR" INPUT TO CSEU                                  | 27-09-06 |
|                      | 7         | 14 | 8  |                        | ENABLES L STALL WARNING   |  | 27-32-01 |
|                      | 5         | 3  | 4  |                        | ENABLES VOICE RCDR ERASE (BRAKES SET)                                 |  | 23-71-01 |
|                      | 1         | 13 | 2  |                        | INHIBITS TAKE OFF WARNING   |  | 31-51-05 |
| K140<br>D584<br>GND  | 11        | 9  | 10 |                        | ENABLES EICAS MAINT FUNCTION  |  | 31-41-01 |
|                      | 5         | 3  | 4  |                        | DRIVES COOLING DOORS FULL OPEN  | INHIBITS L PACK TEMP CONTROL BITE                                | 21-51-03 |
|                      | 1         | 13 | 2  |                        | PROVIDES INPUT TO L FUEL QTY PROCESSOR                                | PROVIDES INPUT TO L FUEL QTY PROCESSOR                           | 28-41-01 |
| K141<br>D586<br>GND  | 7         | 14 | 8  |                        | ENABLES P3-3 MD&T AND P1-3 MD&T                                       |  | 33-16-02 |
|                      | 1         | 13 | 2  |                        |   | INHIBITS ZONE TEMP CONT BITE                                     | 21-61-01 |
| K142<br>D588<br>GND  | 11        | 9  | 10 | }                      | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  | 22-41-01 |
|                      | 7         | 14 | 8  |                        |   |  | 22-41-01 |
|                      | 5         | 3  | 4  | }                      | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   | 22-14-01 |
|                      | 1         | 13 | 2  |                        |   |  | 22-14-01 |
| K143<br>D590<br>GND  | 11        | 9  | 10 |                        | PROVIDES INPUT TO L ATC TRANSPONDER BITE MEM                          |  | 34-53-01 |
|                      | 7         | 14 | 8  |                        | PROVIDES INPUT TO C RAD ALTM AND ILS BITE                             |  | 34-33-03 |
|                      | 5         | 3  | 4  |                        | ARMS TAT PROBE FAULT IND DURING TEST                                  | ARMS TAT PROBE HEAT FAULT IND                                    | 30-33-01 |
|                      | 1         | 13 | 2  |                        | PROVIDES "ON GND" INPUT TO TMC  |  | 22-32-01 |
| K144<br>D592<br>GND  | C2        | C3 | C1 |                        | INHIBITS A0A HEAT (ENGS RUNNING)                                      | ENABLES L A0A HEAT   | 30-32-01 |
| K145<br>D594<br>AIR  | D2        | D3 | D1 |                        |   | ENABLES CAPT FOOT HEATER   | 21-45-01 |
|                      | B2        | B3 | B1 |                        | ENABLES AUTO APU FIRE EXT (ENGS RUNNING)                              |  | 26-22-01 |
| K148<br>D600<br>GND  | 5         | 3  | 4  |                        | ENABLES R REV THRUST FAULT ISLN VALVE IND                             |  | 78-36-01 |
|                      | 11        | 9  | 10 |                        | ENABLES AIR DATA CMPTR TEST   |  | 34-12-01 |
|                      | 7         | 14 | 8  |                        |   | INHIBITS TAKEOFF WARNING   | 31-51-03 |
|                      | 1         | 13 | 2  |                        |   | INHIBITS EQUIP COOL TEST FUNCTIONS                               | 21-58-03 |
| K149<br>D602<br>GND  | 11        | 9  | 10 |                        | ENABLES STALL WARN SELF TEST  |  | 27-32-01 |
|                      | 5         | 3  | 4  |                        | ENABLES ELEC LOAD SHED  |  | 24-51-15 |
|                      | 1         | 13 | 2  |                        | ENABLES L FWD FUEL BOOST PUMP AUTO OPERATION WITH SWITCH OFF (APU ON) |  | 28-25-01 |
| K167<br>D1782<br>GND | 7         | 14 | 8  |                        |   | PROVIDES INPUT TO L RAD ALTM, ILS, VOR, DME AND ADF BITE         | 34-33-01 |
|                      | 5         | 3  | 4  |                        | ENABLES AUTO SPEEDBRAKE   |  | 27-62-01 |
|                      | 1         | 13 | 2  |                        | R PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | R PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN | 21-51-05 |

| RELAY                  | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC                              |          |
|------------------------|-----------|----|----|------------------------|---|--|----------|
|                        | ENERGIZED | C  | NC | NO                     |   |  |          |
| K170<br>D604<br>GND    | 11        | 9  | 10 |                        | ENABLES MD&T FOR P3-1 AND P3-3                    |  | 33-16-02 |
|                        | 7         | 14 | 8  |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
| K177<br>D606<br>GND    | 11        | 9  | 10 |                        | ENABLES MD&T FOR P3-1 AND P3-3                    |  | 33-16-02 |
|                        | 5         | 3  | 4  |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
|                        | D2        | D3 | D1 |                        |   | ENABLES R AUX P/S FAULT IND                      | 30-31-02 |
| K178<br>D608<br>GND    | C2        | C3 | C1 |                        |   | ENABLES F/O P/S FAULT IND                        | 30-31-02 |
|                        | B2        | B3 | B1 |                        | ENABLES F/O AND R AUX P/S LO HT                   |  | 30-31-02 |
|                        | A2        | A3 | A1 |                        |   | PROVIDE P1 PROBE HEAT IND                        | 30-34-01 |
|                        | D2        | D3 | D1 |                        | ALLOWS C RUD/ELEV SOV TO CLOSE                    |  | 29-00-04 |
| K199<br>D598<br>GND    | C2        | C3 | C1 |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
|                        | B2        | B3 | B1 |                        | ENGINE CONTROL - LOW IDLE                         | ENABLES HIGH IDLE WITH LANDING FLAPS             | 73-21-03 |
|                        | A2        | A3 | A1 |                        | ENABLES THRUST REVERSERS OPERATION                | INHIBIT THRUST REVERSERS                         | 78-34-01 |
|                        | D2        | D3 | D1 |                        | ALLOWS L RUD/ELEV SOV TO CLOSE                    |  | 29-00-02 |
| K10107<br>D596<br>GND  | C2        | C3 | C1 |                        | ENABLES F/O & R AUX P/S LO HT                     |  | 30-31-02 |
|                        | A2        | A3 | A1 |                        |   | ENABLE P1 PROBE HEAT                             | 30-34-01 |
| K10108<br>D1784<br>AIR | 11        | 9  | 10 |                        | PROVIDES INPUT TO BUS PWR CONTROL UNIT            | PROVIDES INPUT TO BUS POWER CONTROL UNIT         | 24-22-08 |
|                        | 7         | 14 | 8  |                        |   | INHIBITS AURAL WARNING DURING TAKE OFF           | 31-51-07 |
|                        | 1         | 13 | 2  |                        | ENABLES MASTER FIRE WRN ON TAKE OFF               | INHIBITS MASTER FIRE WARNING DURING TAKE OFF     | 31-51-02 |
| K10238<br>D2754<br>GND | 11        | 9  | 10 |                        | PROVIDES "ON GND" INPUT TO EICAS                  |  | 32-09-02 |
|                        | 7         | 14 | 8  |                        | PROVIDES "ON GND" INPUT TO L FMC                  | PROVIDES "IN AIR" INPUT TO L FMC                 | 34-61-07 |
|                        | 5         | 3  | 4  |                        | INPUT TO CABIN PRESSURE CONTROL                   |  | 21-32-01 |
| K10307<br>D4184<br>GND | D2        | D3 | D1 |                        |   | ENABLES CAPT P/S FAULT IND                       | 30-31-01 |
|                        | C2        | C3 | C1 |                        |   | ENABLES L AUX P/S FAULT IND                      | 30-31-01 |
|                        | B2        | B3 | B1 |                        | ENABLES CAPT AND L AUX P/S LOW HT                 | ENABLES CAPT P/S HI HT                           | 30-31-01 |
| K10384<br>D4706<br>GND | A2        | A3 | A1 |                        | ENABLES CAPT AND L AUX P/S LO HT                  |  | 30-31-01 |
|                        | 5         | 3  | 4  |                        | INHIBITS RAM AIR TURBINE DEPLOYMENT               |  | 29-00-04 |
| K10385<br>D4708<br>GND | 1         | 13 | 2  |                        | PROVIDES "ON GND" INPUT TO CSEU                   | PROVIDES "IN AIR" INPUT TO CSEU                  | 27-09-06 |
|                        | 7         | 14 | 8  | }                      | PROVIDES "ON GND" INPUT TO CSEU (MULTI FUNCTIONS) | PROVIDES "IN AIR" INPUT TO CSEU (MULTI FUNCTION) | 27-09-06 |
|                        | 5         | 3  | 4  |                        |   |  | 27-09-06 |
|                        | 1         | 13 | 2  |                        |   |  | 27-09-06 |
| K10388<br>D4510<br>AIR | 11        | 9  | 10 |                        |   | PROVIDES INPUT TO L VHF BITE                     | 23-12-01 |
|                        | 5         | 3  | 4  |                        | PROVIDES "ON GND" INPUT TO RUD/ELEV PCU MONITOR   | PROVIDES "IN AIR" INPUT TO RUD/ELEV PCU MONITOR  | 27-23-01 |
|                        | 1         | 13 | 2  |                        | ENABLES AUTO BRAKES AFTER WHEEL SPIN UP           |  | 32-42-03 |
| K10306<br>D4182<br>AIR | A2        | A3 | A1 |                        |   | ENABLES AUX POWER                                | 24-25-01 |

|         |   |
|---------|---|
| 001-002 | <b>LANDING GEAR AIR/GROUND RELAYS</b><br><br><b>D280N032S</b> |
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| 001-002 | <p align="center"><b>LANDING GEAR AIR/GROUND RELAYS</b></p> <p align="center">D280N032S</p> |
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| RELAY ENERGIZED | POLE |    |    | NORMAL SYSTEM FUNCTION  |  | REFERENCE SCHEMATIC |
|-----------------|------|----|----|---|--|---------------------|
|                 | C    | NC | NO | ON GROUND   | IN AIR   |                     |
| K200 D610 GND   | 11   | 9  | 10 |   | PROVIDES INPUT TO FUEL QUANTITY PROCESSOR                        | 28-41-01            |
|                 | 7    | 14 | 8  | PROVIDES "ON GND" INPUT TO R FMC                                      | PROVIDES "IN AIR" INPUT TO R FMC                                 | 34-61-07            |
|                 |      |    |    |   |  |                     |
| K201 D612 GND   | 11   | 9  | 10 |   | AFT EQUIP EXHAUST FAN SWITCHING                                  | 21-58-04            |
|                 | 7    | 14 | 8  |   | PROVIDES INPUT TO R ATC TRANSPONDER BITE MEM                     | 34-53-02            |
|                 | 1    | 13 | 2  |   | PROVIDES INPUT TO VHF COMM                                       | 23-12-01            |
| K202 D614 GND   | 11   | 9  | 10 | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  | 22-41-01            |
|                 | 7    | 14 | 8  |   |  | 22-41-01            |
|                 | 5    | 3  | 4  | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   | 22-14-01            |
|                 | 1    | 13 | 2  |   |  | 22-14-01            |
| K203 D616 GND   | C2   | C3 | C1 | ALLOWS R SYS RUD/ELEV HYD SOV TO CLOSE                                |  | 29-00-03            |
|                 | B2   | B3 | B1 | INHIBITS TAT PROBE HEAT EXC DURING TEST                               | ENABLES TAT PROBE HEAT   | 30-33-01            |
|                 | A2   | A3 | A1 | ENABLES THRUST REVERSERS  | INHIBITS THRUST REVERSERS OPERATION                              | 78-34-02            |
| K204 D618 GND   | B2   | B3 | B1 | PROVIDES INPUT FOR REDUCED PROBE HEAT                                 |  | 30-31-01            |
|                 | A2   | A3 | A1 | ENABLES WING ANTI-ICE TEST  | ENABLES WING ANTI-ICE  | 30-11-01            |
| K205 D620 AIR   | C2   | C3 | C1 | ENABLES DRAIN MAST LO HEAT  | ENABLES DRAIN MAST HI HEAT                                       | 30-71-01            |
|                 | B2   | B3 | B1 |   | ENABLES F/O FOOT HEATER  | 21-45-01            |
| K206 D622 GND   | 11   | 9  | 10 | INHIBITS DFDR OPERATION (ENG RUNNING. SW IN NORM)                     |  | 31-31-01            |
|                 | 1    | 13 | 2  |   | SWITCHES GND POWER   | 24-51-50            |
| K207 D624 GND   | 5    | 3  | 4  |   | ENABLES STALL WARNING  | 27-32-02            |
|                 | 11   | 9  | 10 | PROVIDES PRESS. OUTFLOW VALVE FULL OPEN                               | ENABLES AUTO 2 CABIN PRESS.                                      | 21-31-02            |
|                 | 1    | 13 | 2  | ENABLES AIR DATA CMPTR TEST   |  | 34-12-02            |
|                 | 7    | 4  | 8  | PROVIDES "ON GND" FOR EICAS   |  | 32-09-02            |
| K208 D1868 GND  | 7    | 14 | 8  | PROVIDES "ON GND" INPUT TO DFDAU                                      | PROVIDES "IN AIR" INPUT TO DFDAU                                 | 31-31-01            |
|                 | 5    | 3  | 4  |   | PROVIDES INPUT TO GPWS BITE                                      | 34-46-01            |
|                 | 1    | 13 | 2  | L PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | L PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN | 21-51-06            |
| K209 D626 AIR   | A2   | A3 | A1 |   | ENABLES LDG GEAR CONTROL LEVER UP                                | 32-30-01            |
|                 | 7    | 14 | 8  | ENABLES AUTO SPEEDBRAKE   |  | 27-62-01            |
| K211 D630 GND   | 1    | 13 | 2  | L PACK-HI FLOW CONTROL WITH APU OR GND AIR                            |  | 21-51-01            |
|                 | A2   | A3 | A1 |   | ENABLES P2/T2 PROBE HEAT - R                                     | 30-34-01            |
| K213 D634 GND   | C2   | C3 | C1 |   | ENABLES R A0A HEAT   | 30-32-02            |
|                 | B2   | B3 | B1 | PROVIDES LO IDLE  | PROVIDES HIGH IDLE WITH LDG FLAPS                                | 73-21-03            |

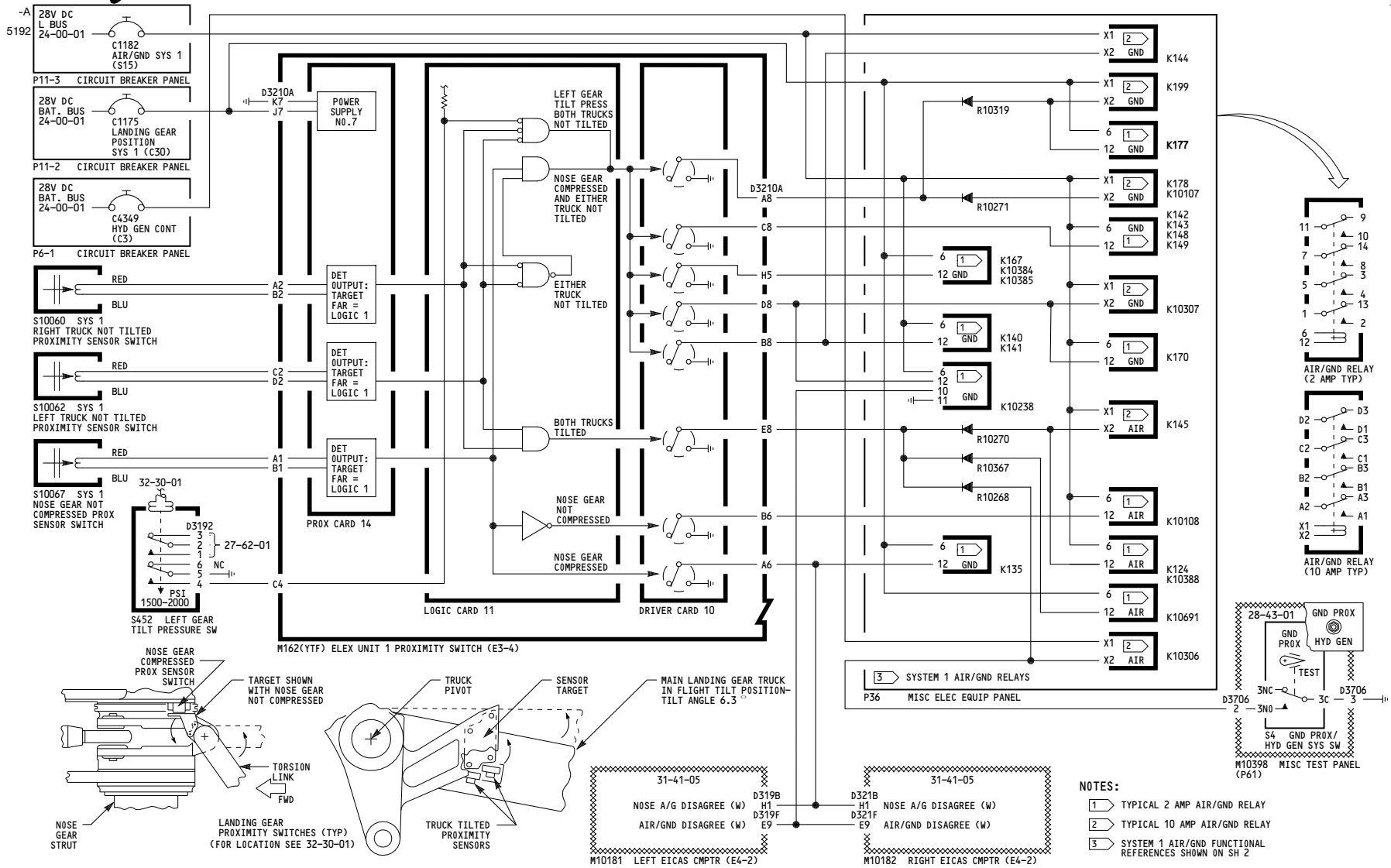
| RELAY ENERGIZED         | POLE |    |    | NORMAL SYSTEM FUNCTION                            |  | REFERENCE SCHEMATIC |
|-------------------------|------|----|----|---|--|---------------------|
|                         | C    | NC | NO | ON GROUND   | IN AIR   |                     |
| K214 D636 GND           | 11   | 9  | 10 | DRIVES COOLING DOORS FULL OPEN                    | INHIBITS R PACK TEMP CONTROL BITE                        | 21-51-04            |
|                         | 7    | 14 | 8  | INPUT TO APU                                      |  | 49-61-01            |
|                         | 5    | 3  | 4  |   | PROVIDES INPUT TO R RAD ALTM, ILS, VOR, DME AND ADF BITE | 34-33-02            |
|                         | 1    | 13 | 2  |   | INHIBITS APU SHUTDOWN (BAT. SW OFF)                      | 49-61-01            |
| K215 D1872 GND          | 11   | 9  | 10 | PROVIDES "ON GND" INPUT TO CSEU                   | PROVIDES "IN AIR" INPUT TO CSEU                          | 27-09-06            |
|                         | 1    | 13 | 2  |   | ENABLES R STALL WARNING                                  | 27-32-02            |
| K219 D1870 AIR          | 5    | 3  | 4  |   | INHIBITS APU GND FIRE WARNING HORN                       | 26-15-02            |
|                         | 7    | 14 | 8  | ENABLES REV THRUST ISLN VALVE FAULT IND           |  | 78-36-01            |
| K263 D1866 GND          |      |    |    |   |  |                     |
| K10201 D1864 GND        | 5    | 3  | 4  |   | AIR SUPPLY APU VALVE CONTROL                             | 36-11-03            |
|                         | 7    | 14 | 8  | R PACK-HI FLOW CONTROL WITH APU OR GND AIR        |  | 21-51-02            |
| K10202 D628 GND         |      |    |    |   |  |                     |
| K10203 D632 AIR         | 5    | 3  | 4  | ENABLES EXT PWR PRIORITY OVER R GCU               |  | 24-22-02            |
|                         | 1    | 13 | 2  |   | ENABLES ELEC LOAD SHED RESET                             | 24-51-10            |
| K10239 D2676 GND        | 7    | 14 | 8  | INPUTS FLIGHT COMPLETE TO TCAS                    |  | 34-45-01            |
|                         | 7    | 14 | 8  | ENABLES AUTO. BRAKE AFTER WHEEL SPIN UP           |  | 32-42-03            |
| K10308 D4090 GND        | D2   | D3 | D1 | ENABLES CAPT AND L AUX P/S LO HT                  |  | 30-31-01            |
|                         | B2   | B3 | B1 |   | ENABLES L AUX P/S FAULT IND                              | 30-31-01            |
|                         | C2   | C3 | C1 | ENABLES P2/T2 PROBE HEAT IND - R ENG RUNNING      |  | 30-34-01            |
|                         | A2   | A3 | A1 |   | ENABLES CAPT P/S FAULT IND                               | 30-31-01            |
| K10309 D4092 GND        | D2   | D3 | D1 |   | ENABLES F/O P/S FAULT IND                                | 30-31-02            |
|                         | C2   | C3 | C1 |   | ENABLES R AUX P/S FAULT IND                              | 30-31-02            |
|                         | B2   | B3 | B1 | ENABLES F/O AND R AUX P/S LO HT                   |  | 30-31-02            |
|                         | A2   | A3 | A1 | ENABLES F/O AND R AUX P/S LO HT                   | ENABLES F/O P/S HI HT                                    | 30-31-02            |
| K10386 D4674 NOT TILTED | 7    | 14 | 8  | PROVIDES "ON GND" INPUT TO CSEU (MULTI-FUNCTIONS) | PROVIDES "IN AIR" INPUT TO CSEU (MULTI FUNCTIONS)        | 27-09-06            |
|                         | 5    | 3  | 4  |   |  | 27-09-06            |
|                         | 1    | 13 | 2  |   |  | 27-09-06            |
| K10387 D4676 NOT TILTED | 1    | 13 | 2  | PROVIDES "ON GND" INPUT TO CSEU                   | PROVIDES "IN AIR" INPUT TO CSEU                          | 27-09-06            |

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**LANDING GEAR AIR/GROUND RELAYS**

D280N032S

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**LANDING GEAR AIR/GROUND RELAYS**

D280N032S

Incorporates  
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| RELAY                | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC  |
|----------------------|-----------|----|----|------------------------|---|--|
|                      | ENERGIZED | C  | NC | NO                     | ON GROUND   |  |
| K124<br>D582<br>AIR  | 5         | 3  | 4  |                        | ACARS INPUT   | 23-22-01   |
|                      | 1         | 13 | 2  |                        | ENABLES L RECIRC FAN  | 21-25-01   |
|                      | 7         | 14 | 8  |                        |   | INHIBITS EQUIP COOL. GND HORN                                    |
| K135<br>D1780<br>GND | 11        | 9  | 10 |                        | PROVIDES "ON GND" INPUT TO CSEU                                       | PROVIDES "IN AIR" INPUT TO CSEU                                  |
|                      | 7         | 14 | 8  |                        |   | ENABLES L STALL WARNING  |
|                      | 5         | 3  | 4  |                        | ENABLES VOICE RCDR ERASE (BRAKES SET)                                 |  |
|                      | 1         | 13 | 2  |                        |   | INHIBITS TAKE OFF WARNING  |
| K140<br>D584<br>GND  | 11        | 9  | 10 |                        | ENABLES EICAS MAINT FUNCTION  | 31-41-01   |
|                      | 5         | 3  | 4  |                        | DRIVES COOLING DOORS FULL OPEN  | INHIBITS L PACK TEMP CONTROL BITE                                |
|                      | 1         | 13 | 2  |                        | PROVIDES INPUT TO L FUEL QTY PROCESSOR                                | PROVIDES INPUT TO L FUEL QTY PROCESSOR                           |
| K141<br>D586<br>GND  | 7         | 14 | 8  |                        | ENABLES P3-3 MD&T AND P1-3 MD&T                                       | 33-16-02   |
|                      | 1         | 13 | 2  |                        |   | INHIBITS ZONE TEMP CONT BITE                                     |
| K142<br>D588<br>GND  | 11        | 9  | 10 | }                      | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  |
|                      | 7         | 14 | 8  |                        |   | 22-41-01   |
|                      | 5         | 3  | 4  | }                      | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   |
|                      | 1         | 13 | 2  |                        |   | 22-14-01   |
| K143<br>D590<br>GND  | 11        | 9  | 10 |                        | PROVIDES INPUT TO L ATC TRANSPONDER BITE MEM                          | 34-53-01   |
|                      | 7         | 14 | 8  |                        | PROVIDES INPUT TO C RAD ALTM AND ILS BITE                             | 34-33-03   |
|                      | 5         | 3  | 4  |                        | ARMS TAT PROBE FAULT IND DURING TEST                                  | ARMS TAT PROBE HEAT FAULT IND                                    |
|                      | 1         | 13 | 2  |                        | PROVIDES "ON GND" INPUT TO TMC  | 22-32-01   |
| K144<br>D592<br>GND  | C2        | C3 | C1 |                        | INHIBITS A0A HEAT (ENGS RUNNING)                                      | ENABLES L A0A HEAT   |
| K145<br>D594<br>AIR  | D2        | D3 | D1 |                        |   | ENABLES CAPT FOOT HEATER   |
|                      | B2        | B3 | B1 |                        | ENABLES AUTO APU FIRE EXT (ENGS RUNNING)                              | 26-22-01   |
| K148<br>D600<br>GND  | 5         | 3  | 4  |                        | ENABLES R REV THRUST FAULT ISLN VALVE IND                             | 78-36-01   |
|                      | 11        | 9  | 10 |                        | ENABLES AIR DATA CMPTR TEST   | 34-12-01   |
|                      | 7         | 14 | 8  |                        |   | INHIBITS TAKEOFF WARNING   |
|                      | 1         | 13 | 2  |                        |   | INHIBITS EQUIP COOL TEST FUNCTIONS                               |
| K149<br>D602<br>GND  | 11        | 9  | 10 |                        | ENABLES STALL WARN SELF TEST  | 27-32-01   |
|                      | 5         | 3  | 4  |                        | ENABLES ELEC LOAD SHED  | 24-51-15   |
|                      | 1         | 13 | 2  |                        | ENABLES L FWD FUEL BOOST PUMP AUTO OPERATION WITH SWITCH OFF (APU ON) | 28-25-01   |
| K167<br>D1782<br>GND | 7         | 14 | 8  |                        |   | PROVIDES INPUT TO L RAD ALTM, ILS, VOR, DME AND ADF BITE         |
|                      | 5         | 3  | 4  |                        | ENABLES AUTO SPEEDBRAKE   | 27-62-01   |
|                      | 1         | 13 | 2  |                        | R PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | R PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN |

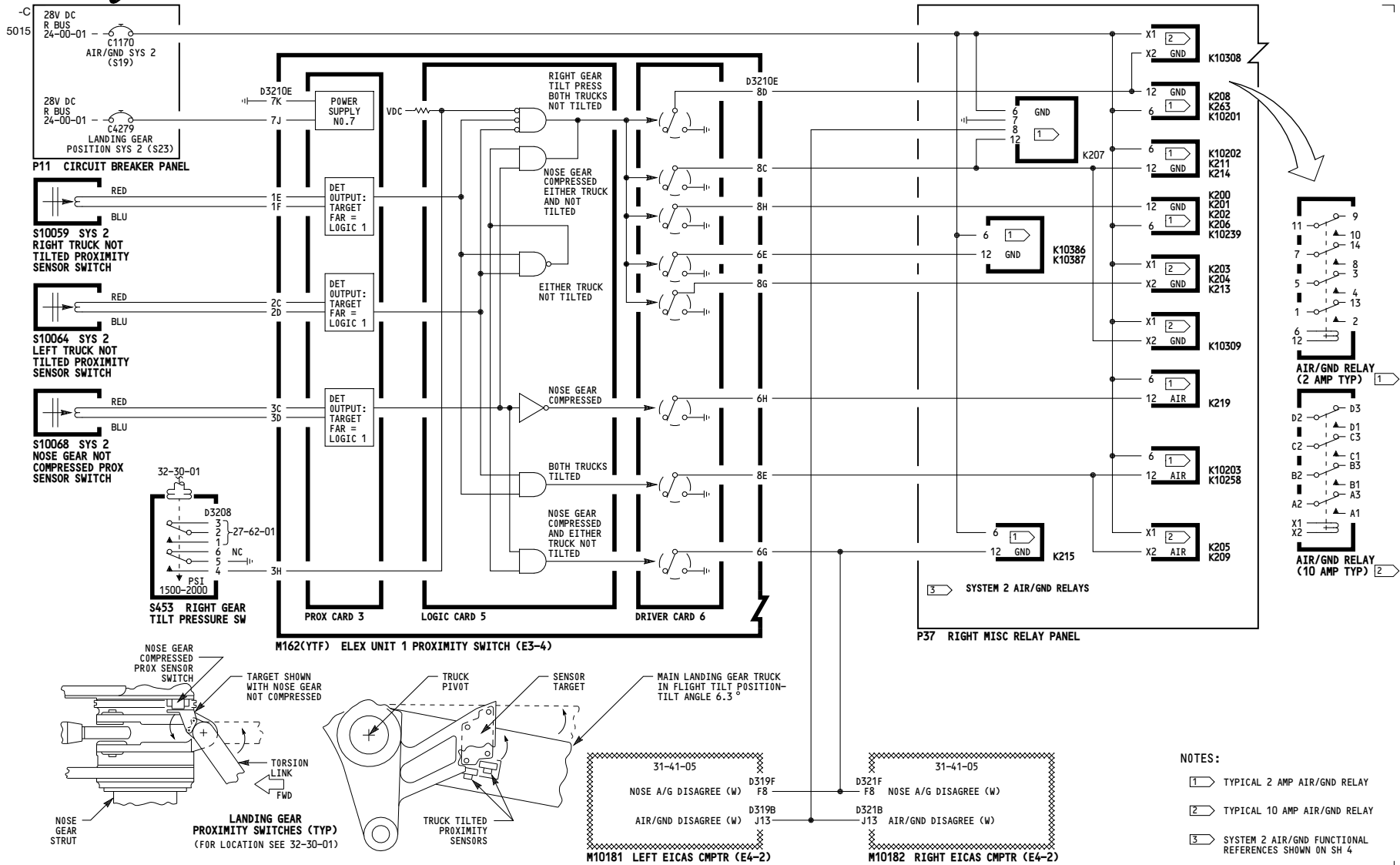
| RELAY                  | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC                              |
|------------------------|-----------|----|----|------------------------|---|--|
|                        | ENERGIZED | C  | NC | NO                     | ON GROUND   |  |
| K170<br>D604<br>GND    | 11        | 9  | 10 |                        | ENABLES MD&T FOR P3-1 AND P3-3                    | 33-16-02   |
|                        | 7         | 14 | 8  |                        | ENABLES THRUST REVERSERS                          | 78-34-01   |
| K177<br>D606<br>GND    | 11        | 9  | 10 |                        | ENABLES MD&T FOR P3-1 AND P3-3                    | 33-16-02   |
|                        | 5         | 3  | 4  |                        | ENABLES THRUST REVERSERS                          | 78-34-01   |
|                        | D2        | D3 | D1 |                        |   | ENABLES R AUX P/S FAULT IND                      |
| K178<br>D608<br>GND    | C2        | C3 | C1 |                        |   | ENABLES F/O P/S FAULT IND                        |
|                        | B2        | B3 | B1 |                        | ENABLES F/O AND R AUX P/S LO HT                   | 30-31-02   |
|                        | A2        | A3 | A1 |                        |   | PROVIDE P1 PROBE HEAT IND                        |
|                        | D2        | D3 | D1 |                        | ALLOWS C RUD/ELEV SOV TO CLOSE                    | 29-00-04   |
| K199<br>D598<br>GND    | C2        | C3 | C1 |                        | ENABLES THRUST REVERSERS                          | 78-34-01   |
|                        | B2        | B3 | B1 |                        | ENGINE CONTROL - LOW IDLE                         | ENABLES HIGH IDLE WITH LANDING FLAPS             |
|                        | A2        | A3 | A1 |                        | ENABLES THRUST REVERSERS OPERATION                | INHIBIT THRUST REVERSERS                         |
|                        | D2        | D3 | D1 |                        | ALLOWS L RUD/ELEV SOV TO CLOSE                    | 29-00-02   |
| K10107<br>D596<br>GND  | C2        | C3 | C1 |                        | ENABLES F/O & R AUX P/S LO HT                     | 30-31-02   |
|                        | A2        | A3 | A1 |                        |   | ENABLE P1 PROBE HEAT                             |
| K10108<br>D1784<br>AIR | 11        | 9  | 10 |                        | PROVIDES INPUT TO BUS PWR CONTROL UNIT            | PROVIDES INPUT TO BUS POWER CONTROL UNIT         |
|                        | 7         | 14 | 8  |                        |   | INHIBITS AURAL WARNING DURING TAKE OFF           |
|                        | 1         | 13 | 2  |                        | ENABLES MASTER FIRE WRN ON TAKE OFF               | INHIBITS MASTER FIRE WARNING DURING TAKE OFF     |
| K10238<br>D2754<br>GND | 11        | 9  | 10 |                        | PROVIDES "ON GND" INPUT TO EICAS                  | 32-09-02   |
|                        | 7         | 14 | 8  |                        | PROVIDES "ON GND" INPUT TO L FMC                  | PROVIDES "IN AIR" INPUT TO L FMC                 |
|                        | 5         | 3  | 4  |                        | INPUT TO CABIN PRESSURE CONTROL                   | 21-32-01   |
| K10307<br>D4184<br>GND | D2        | D3 | D1 |                        |   | ENABLES CAPT P/S FAULT IND                       |
|                        | C2        | C3 | C1 |                        |   | ENABLES L AUX P/S FAULT IND                      |
|                        | B2        | B3 | B1 |                        | ENABLES CAPT AND L AUX P/S LOW HT                 | ENABLES CAPT P/S HI HT                           |
|                        | A2        | A3 | A1 |                        | ENABLES CAPT AND L AUX P/S LO HT                  | 30-31-01   |
| K10384<br>D4706<br>GND | 5         | 3  | 4  |                        | INHIBITS RAM AIR TURBINE DEPLOYMENT               | 29-00-04   |
|                        | 1         | 13 | 2  |                        | PROVIDES "ON GND" INPUT TO CSEU                   | PROVIDES "IN AIR" INPUT TO CSEU                  |
| K10385<br>D4708<br>GND | 7         | 14 | 8  | }                      | PROVIDES "ON GND" INPUT TO CSEU (MULTI FUNCTIONS) | PROVIDES "IN AIR" INPUT TO CSEU (MULTI FUNCTION) |
|                        | 5         | 3  | 4  |                        |   | 27-09-06   |
|                        | 1         | 13 | 2  |                        |   | 27-09-06   |
| K10388<br>D4510<br>AIR | 11        | 9  | 10 |                        | PROVIDES INPUT TO L VHF BITE                      | 23-12-01   |
|                        | 5         | 3  | 4  |                        | PROVIDES "ON GND" INPUT TO RUD/ELEV PCU MONITOR   | PROVIDES "IN AIR" INPUT TO RUD/ELEV PCU MONITOR  |
|                        | 1         | 13 | 2  |                        | ENABLES AUTO BRAKES AFTER WHEEL SPIN UP           | 32-42-03   |
| K10306<br>D4182<br>AIR | A2        | A3 | A1 |                        |   | ENABLES AUX POWER                                |

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**LANDING GEAR AIR/GROUND RELAYS**

D280N032S

**32-09-02**



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| 001 | <p><b>LANDING GEAR AIR/GROUND RELAYS</b></p> <p>D280N032S</p> |
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757-200 SYSTEM SCHEMATIC MANUAL

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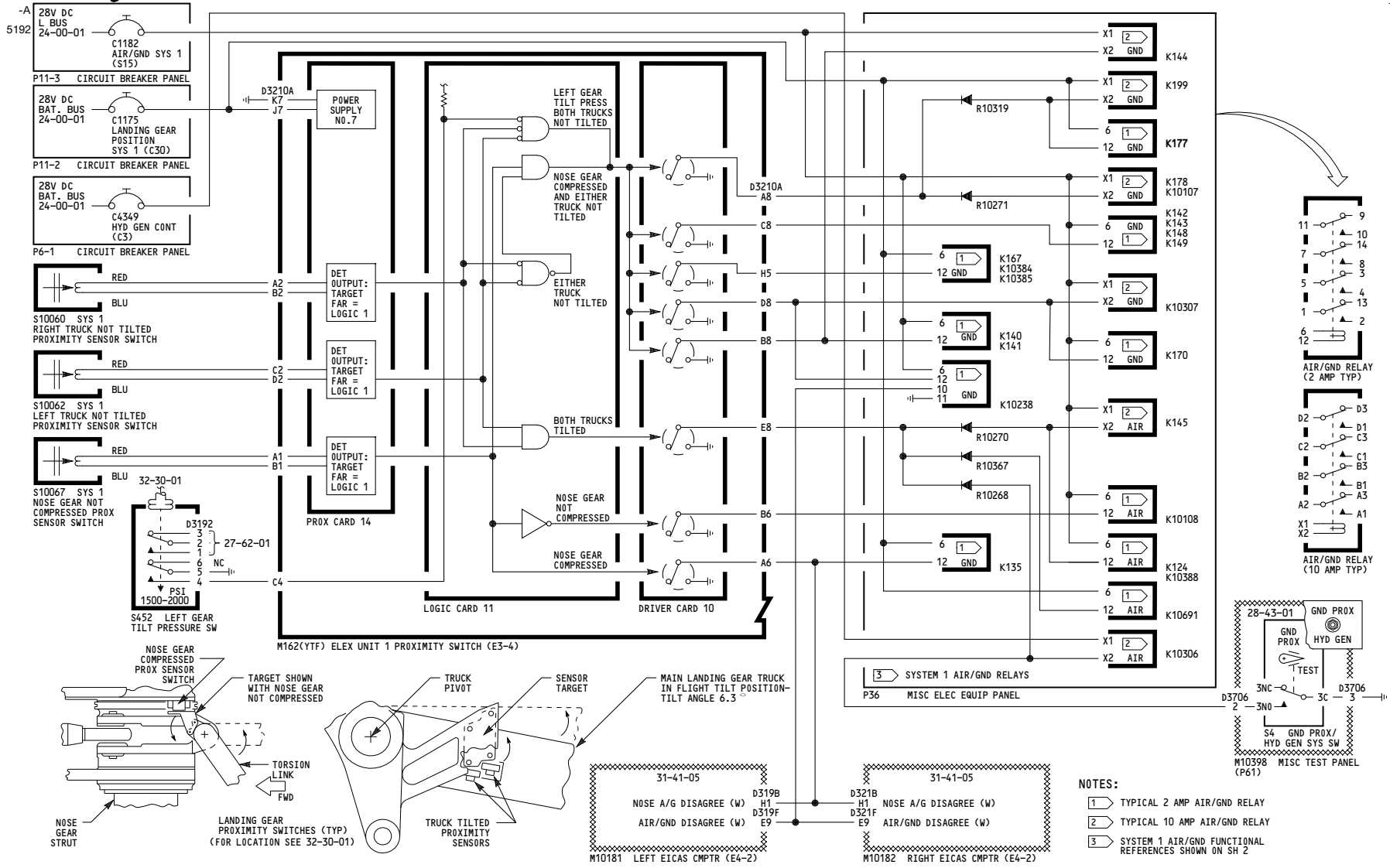
| RELAY ENERGIZED      | POLE |    |    | NORMAL SYSTEM FUNCTION  |  | REFERENCE SCHEMATIC |
|----------------------|------|----|----|---|--|---------------------|
|                      | C    | NC | NO | ON GROUND   | IN AIR   |                     |
| K200<br>D610<br>GND  | 11   | 9  | 10 |   | PROVIDES INPUT TO FUEL QUANTITY PROCESSOR                        | 28-41-01            |
|                      | 7    | 14 | 8  | PROVIDES "ON GND" INPUT TO R FMC                                      | PROVIDES "IN AIR" INPUT TO R FMC                                 | 34-61-07            |
|                      |      |    |    |   |  |                     |
| K201<br>D612<br>GND  | 11   | 9  | 10 |   | AFT EQUIP EXHAUST FAN SWITCHING                                  | 21-58-04            |
|                      | 7    | 14 | 8  |   | PROVIDES INPUT TO R ATC TRANSPONDER BITE MEM                     | 34-53-02            |
|                      | 1    | 13 | 2  |   | PROVIDES INPUT TO VHF COMM                                       | 23-12-01            |
| K202<br>D614<br>GND  | 11   | 9  | 10 | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  | 22-41-01            |
|                      | 7    | 14 | 8  |   |  | 22-41-01            |
|                      | 5    | 3  | 4  | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   | 22-14-01            |
|                      | 1    | 13 | 2  |   |  | 22-14-01            |
| K203<br>D616<br>GND  | C2   | C3 | C1 | ALLOWS R SYS RUD/ELEV HYD SOV TO CLOSE                                |  | 29-00-03            |
|                      | B2   | B3 | B1 | INHIBITS TAT PROBE HEAT EXC DURING TEST                               | ENABLES TAT PROBE HEAT   | 30-33-01            |
|                      | A2   | A3 | A1 | ENABLES THRUST REVERSERS  | INHIBITS THRUST REVERSERS OPERATION                              | 78-34-02            |
| K204<br>D618<br>GND  | B2   | B3 | B1 | PROVIDES INPUT FOR REDUCED PROBE HEAT                                 |  | 30-31-01            |
|                      | A2   | A3 | A1 | ENABLES WING ANTI-ICE TEST  | ENABLES WING ANTI-ICE  | 30-11-01            |
| K205<br>D620<br>AIR  | C2   | C3 | C1 | ENABLES DRAIN MAST LO HEAT  | ENABLES DRAIN MAST HI HEAT                                       | 30-71-01            |
|                      | B2   | B3 | B1 |   | ENABLES F/O FOOT HEATER  | 21-45-01            |
| K206<br>D622<br>GND  | 11   | 9  | 10 | INHIBITS DFDR OPERATION (ENG RUNNING. SW IN NORM)                     |  | 31-31-01            |
|                      | 1    | 13 | 2  |   | SWITCHES GND POWER   | 24-51-50            |
|                      |      |    |    |   |  |                     |
| K207<br>D624<br>GND  | 5    | 3  | 4  |   | ENABLES STALL WARNING  | 27-32-02            |
|                      | 11   | 9  | 10 | PROVIDES PRESS. OUTFLOW VALVE FULL OPEN                               | ENABLES AUTO 2 CABIN PRESS.                                      | 21-31-02            |
|                      | 1    | 13 | 2  | ENABLES AIR DATA CMPTR TEST   |  | 34-12-02            |
|                      | 7    | 4  | 8  | PROVIDES "ON GND" FOR EICAS   |  | 32-09-02            |
| K208<br>D1868<br>GND | 7    | 14 | 8  | PROVIDES "ON GND" INPUT TO DFDAU                                      | PROVIDES "IN AIR" INPUT TO DFDAU                                 | 31-31-01            |
|                      | 5    | 3  | 4  |   | PROVIDES INPUT TO GPWS BITE                                      | 34-46-01            |
|                      | 1    | 13 | 2  | L PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | L PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN | 21-51-06            |
| K209<br>D626<br>AIR  |      |    |    |   |  |                     |
|                      | A2   | A3 | A1 |   | ENABLES LDG GEAR CONTROL LEVER UP                                | 32-30-01            |
| K211<br>D630<br>GND  | 7    | 14 | 8  | ENABLES AUTO SPEEDBRAKE   |  | 27-62-01            |
|                      | 1    | 13 | 2  | L PACK-HI FLOW CONTROL WITH APU OR GND AIR                            |  | 21-51-01            |
| K213<br>D634<br>GND  | A2   | A3 | A1 |   | ENABLES P2/T2 PROBE HEAT - R                                     | 30-34-01            |
|                      | C2   | C3 | C1 |   | ENABLES R A0A HEAT   | 30-32-02            |
|                      | B2   | B3 | B1 | PROVIDES LO IDLE  | PROVIDES HIGH IDLE WITH LDG FLAPS                                | 73-21-03            |

| RELAY ENERGIZED                  | POLE |    |    | NORMAL SYSTEM FUNCTION                                  |   | REFERENCE SCHEMATIC |
|----------------------------------|------|----|----|---|---|---------------------|
|                                  | C    | NC | NO | ON GROUND   | IN AIR  |                     |
| K214<br>D636<br>GND              | 11   | 9  | 10 | DRIVES COOLING DOORS FULL OPEN                          | INHIBITS R PACK TEMP CONTROL BITE                           | 21-51-04            |
|                                  | 7    | 14 | 8  | INPUT TO APU  |   | 49-61-01            |
|                                  | 5    | 3  | 4  |   | PROVIDES INPUT TO R RAD ALTM, ILS,<br>VOR, DME AND ADF BITE | 34-33-02            |
|                                  | 1    | 13 | 2  |   | INHIBITS APU SHUTDOWN (BAT. SW OFF)                         | 49-61-01            |
| K215<br>D1872<br>GND             | 11   | 9  | 10 | PROVIDES "ON GND" INPUT TO CSEU                         | PROVIDES "IN AIR" INPUT TO CSEU                             | 27-09-06            |
|                                  | 1    | 13 | 2  |   | ENABLES R STALL WARNING                                     | 27-32-02            |
| K219<br>D1870<br>AIR             | 5    | 3  | 4  |   | INHIBITS APU GND FIRE WARNING HORN                          | 26-15-02            |
|                                  | 7    | 14 | 8  | ENABLES REV THRUST ISLN VALVE FAULT IND                 |   | 78-36-01            |
| K263<br>D1866<br>GND             |      |    |    |   |   |                     |
| K10201<br>D1864<br>GND           | 5    | 3  | 4  |   | AIR SUPPLY APU VALVE CONTROL                                | 36-11-03            |
|                                  |      |    |    |   |   |                     |
| K10202<br>D628<br>GND            | 7    | 14 | 8  | R PACK-HI FLOW CONTROL WITH APU OR GND AIR              |   | 21-51-02            |
| K10203<br>D632<br>AIR            | 5    | 3  | 4  | ENABLES EXT PWR PRIORITY OVER R GCU                     |   | 24-22-02            |
|                                  | 1    | 13 | 2  |   | ENABLES ELEC LOAD SHED RESET                                | 24-51-10            |
| K10239<br>D2676<br>GND           | 7    | 14 | 8  | INPUTS FLIGHT COMPLETE TO TCAS                          |   | 34-45-01            |
|                                  |      |    |    |   |   |                     |
| K10258<br>D3118<br>AIR           | 7    | 14 | 8  | ENABLES AUTO. BRAKE AFTER WHEEL SPIN UP                 |   | 32-42-03            |
|                                  |      |    |    |   |   |                     |
| K10308<br>D4090<br>GND           | D2   | D3 | D1 | ENABLES CAPT AND L AUX P/S LO HT                        |   | 30-31-01            |
|                                  | B2   | B3 | B1 |   | ENABLES L AUX P/S FAULT IND                                 | 30-31-01            |
|                                  | C2   | C3 | C1 | ENABLES P2/T2 PROBE HEAT IND - R ENG RUNNING            |   | 30-34-01            |
|                                  | A2   | A3 | A1 |   | ENABLES CAPT P/S FAULT IND                                  | 30-31-01            |
| K10309<br>D4092<br>GND           | D2   | D3 | D1 |   | ENABLES F/O P/S FAULT IND                                   | 30-31-02            |
|                                  | C2   | C3 | C1 |   | ENABLES R AUX P/S FAULT IND                                 | 30-31-02            |
|                                  | B2   | B3 | B1 | ENABLES F/O AND R AUX P/S LO HT                         |   | 30-31-02            |
|                                  | A2   | A3 | A1 | ENABLES F/O AND R AUX P/S LO HT                         | ENABLES F/O P/S HI HT                                       | 30-31-02            |
| K10386<br>D4674<br>NOT<br>TILTED | 7    | 14 | 8  | PROVIDES "ON GND"<br>INPUT TO CSEU<br>(MULTI-FUNCTIONS) | PROVIDES "IN AIR"<br>INPUT TO CSEU<br>(MULTI FUNCTIONS)     | 27-09-06            |
|                                  | 5    | 3  | 4  |   |   | 27-09-06            |
|                                  | 1    | 13 | 2  |   |   | 27-09-06            |
| K10387<br>D4676<br>NOT<br>TILTED |      |    |    |   |   |                     |
|                                  | 1    | 13 | 2  | PROVIDES "ON GND" INPUT TO CSEU                         | PROVIDES "IN AIR" INPUT TO CSEU                             | 27-09-06            |
|                                  |      |    |    |   |   |                     |
|                                  |      |    |    |   |   |                     |
|                                  |      |    |    |   |   |                     |
|                                  |      |    |    |   |   |                     |

|           |                                       |
|-----------|---------------------------------------|
| 001       | <b>LANDING GEAR AIR/GROUND RELAYS</b> |
| D280N032S |                                       |

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**LANDING GEAR AIR/GROUND RELAYS**

D280N032S

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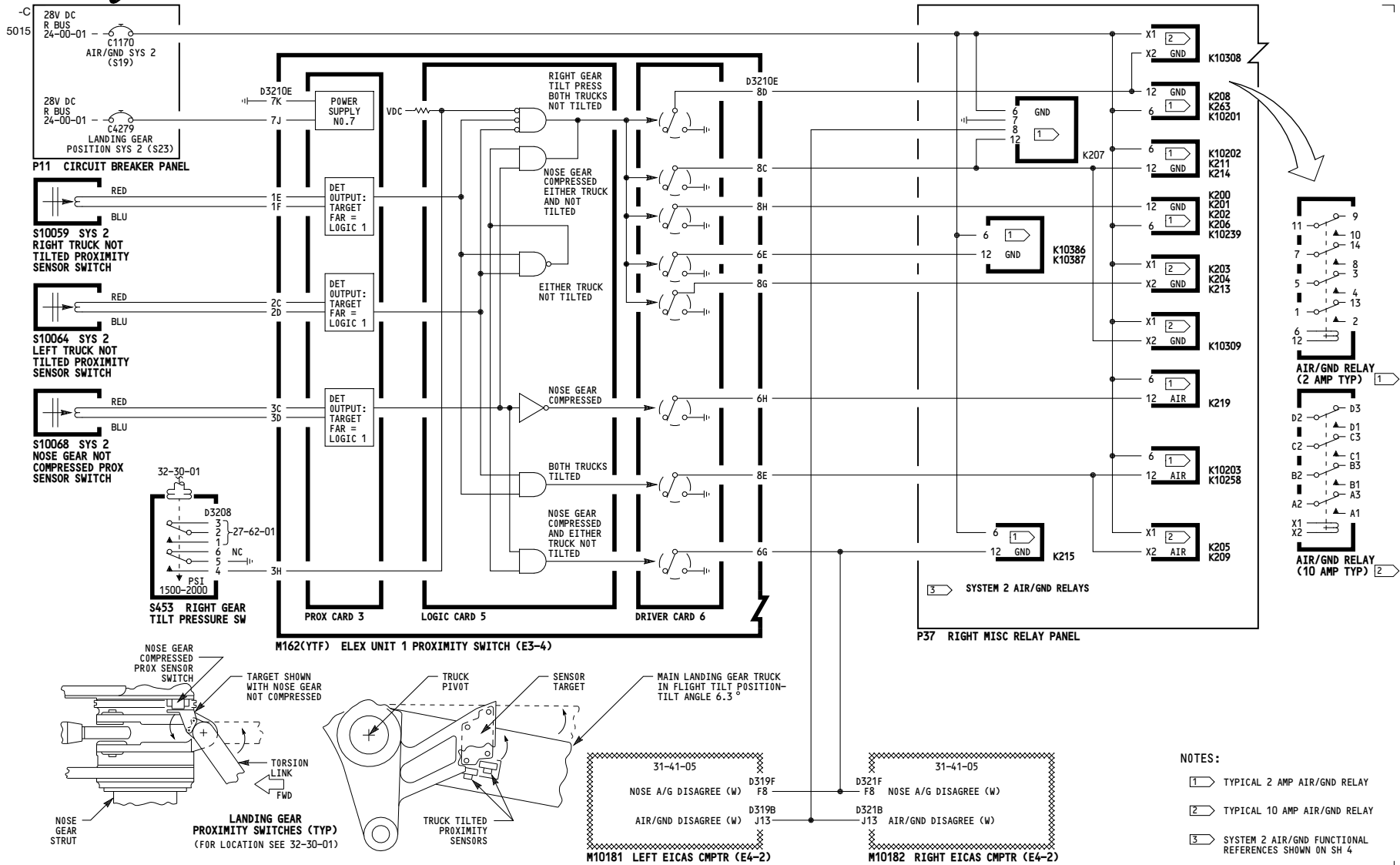
| RELAY                | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC  |          |
|----------------------|-----------|----|----|------------------------|---|--|----------|
|                      | ENERGIZED | C  | NC | NO                     | ON GROUND   |  | IN AIR   |
| K124<br>D582<br>AIR  | 5         | 3  | 4  |                        | ACARS INPUT   | 23-22-01   |          |
|                      | 1         | 13 | 2  |                        | ENABLES L RECIRC FAN  | 21-25-01   |          |
|                      | 7         | 14 | 8  |                        |   | INHIBITS EQUIP COOL. GND HORN                                    | 21-58-01 |
| K135<br>D1780<br>GND | 11        | 9  | 10 |                        | PROVIDES "ON GND" INPUT TO CSEU                                       | PROVIDES "IN AIR" INPUT TO CSEU                                  | 27-09-06 |
|                      | 7         | 14 | 8  |                        |   | ENABLES L STALL WARNING  | 27-32-01 |
|                      | 5         | 3  | 4  |                        | ENABLES VOICE RCDR ERASE (BRAKES SET)                                 |  | 23-71-01 |
|                      | 1         | 13 | 2  |                        |   | INHIBITS TAKE OFF WARNING  | 31-51-05 |
| K140<br>D584<br>GND  | 11        | 9  | 10 |                        | ENABLES EICAS MAINT FUNCTION  |  | 31-41-01 |
|                      | 5         | 3  | 4  |                        | DRIVES COOLING DOORS FULL OPEN  | INHIBITS L PACK TEMP CONTROL BITE                                | 21-51-03 |
|                      | 1         | 13 | 2  |                        | PROVIDES INPUT TO L FUEL QTY PROCESSOR                                | PROVIDES INPUT TO L FUEL QTY PROCESSOR                           | 28-41-01 |
| K141<br>D586<br>GND  | 7         | 14 | 8  |                        | ENABLES P3-3 MD&T AND P1-3 MD&T                                       |  | 33-16-02 |
|                      | 1         | 13 | 2  |                        |   | INHIBITS ZONE TEMP CONT BITE                                     | 21-61-01 |
| K142<br>D588<br>GND  | 11        | 9  | 10 | }                      | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  | 22-41-01 |
|                      | 7         | 14 | 8  |                        |   |  | 22-41-01 |
|                      | 5         | 3  | 4  | }                      | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   | 22-14-01 |
|                      | 1         | 13 | 2  |                        |   |  | 22-14-01 |
| K143<br>D590<br>GND  | 11        | 9  | 10 |                        |   | PROVIDES INPUT TO L ATC TRANSPONDER BITE MEM                     | 34-53-01 |
|                      | 7         | 14 | 8  |                        |   | PROVIDES INPUT TO C RAD ALTM AND ILS BITE                        | 34-33-03 |
|                      | 5         | 3  | 4  |                        | ARMS TAT PROBE FAULT IND DURING TEST                                  | ARMS TAT PROBE HEAT FAULT IND                                    | 30-33-01 |
|                      | 1         | 13 | 2  |                        | PROVIDES "ON GND" INPUT TO TMC  |  | 22-32-01 |
| K144<br>D592<br>GND  | C2        | C3 | C1 |                        | INHIBITS A0A HEAT (ENGS RUNNING)                                      | ENABLES L A0A HEAT   | 30-32-01 |
| K145<br>D594<br>AIR  | D2        | D3 | D1 |                        |   | ENABLES CAPT FOOT HEATER   | 21-45-01 |
|                      | B2        | B3 | B1 |                        | ENABLES AUTO APU FIRE EXT (ENGS RUNNING)                              |  | 26-22-01 |
| K148<br>D600<br>GND  | 5         | 3  | 4  |                        | ENABLES R REV THRUST FAULT ISLN VALVE IND                             |  | 78-36-01 |
|                      | 11        | 9  | 10 |                        | ENABLES AIR DATA CMPTR TEST   |  | 34-12-01 |
|                      | 7         | 14 | 8  |                        |   | INHIBITS TAKEOFF WARNING   | 31-51-03 |
|                      | 1         | 13 | 2  |                        |   | INHIBITS EQUIP COOL TEST FUNCTIONS                               | 21-58-03 |
| K149<br>D602<br>GND  | 11        | 9  | 10 |                        | ENABLES STALL WARN SELF TEST  |  | 27-32-01 |
|                      | 5         | 3  | 4  |                        | ENABLES ELEC LOAD SHED  |  | 24-51-15 |
|                      | 1         | 13 | 2  |                        | ENABLES L FWD FUEL BOOST PUMP AUTO OPERATION WITH SWITCH OFF (APU ON) |  | 28-25-01 |
| K167<br>D1782<br>GND | 7         | 14 | 8  |                        |   | PROVIDES INPUT TO L RAD ALTM, ILS, VOR, DME AND ADF BITE         | 34-33-01 |
|                      | 5         | 3  | 4  |                        | ENABLES AUTO SPEEDBRAKE   |  | 27-62-01 |
|                      | 1         | 13 | 2  |                        | R PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | R PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN | 21-51-05 |

| RELAY                  | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC                              |          |
|------------------------|-----------|----|----|------------------------|---|--|----------|
|                        | ENERGIZED | C  | NC | NO                     | ON GROUND   |  | IN AIR   |
| K170<br>D604<br>GND    | 11        | 9  | 10 |                        | ENABLES MD&T FOR P3-1 AND P3-3                    |  | 33-16-02 |
|                        | 7         | 14 | 8  |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
| K177<br>D606<br>GND    | 11        | 9  | 10 |                        | ENABLES MD&T FOR P3-1 AND P3-3                    |  | 33-16-02 |
|                        | 5         | 3  | 4  |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
|                        | D2        | D3 | D1 |                        |   | ENABLES R AUX P/S FAULT IND                      | 30-31-02 |
| K178<br>D608<br>GND    | C2        | C3 | C1 |                        |   | ENABLES F/O P/S FAULT IND                        | 30-31-02 |
|                        | B2        | B3 | B1 |                        | ENABLES F/O AND R AUX P/S LO HT                   |  | 30-31-02 |
|                        | A2        | A3 | A1 |                        |   | PROVIDE P1 PROBE HEAT IND                        | 30-34-01 |
|                        | D2        | D3 | D1 |                        | ALLOWS C RUD/ELEV SOV TO CLOSE                    |  | 29-00-04 |
| K199<br>D598<br>GND    | C2        | C3 | C1 |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
|                        | B2        | B3 | B1 |                        | ENGINE CONTROL - LOW IDLE                         | ENABLES HIGH IDLE WITH LANDING FLAPS             | 73-21-03 |
|                        | A2        | A3 | A1 |                        | ENABLES THRUST REVERSERS OPERATION                | INHIBIT THRUST REVERSERS                         | 78-34-01 |
|                        | D2        | D3 | D1 |                        | ALLOWS L RUD/ELEV SOV TO CLOSE                    |  | 29-00-02 |
| K10107<br>D596<br>GND  | C2        | C3 | C1 |                        | ENABLES F/O & R AUX P/S LO HT                     |  | 30-31-02 |
|                        | A2        | A3 | A1 |                        |   | ENABLE P1 PROBE HEAT                             | 30-34-01 |
| K10108<br>D1784<br>AIR | 11        | 9  | 10 |                        | PROVIDES INPUT TO BUS PWR CONTROL UNIT            | PROVIDES INPUT TO BUS POWER CONTROL UNIT         | 24-22-08 |
|                        | 7         | 14 | 8  |                        |   | INHIBITS AURAL WARNING DURING TAKE OFF           | 31-51-07 |
|                        | 1         | 13 | 2  |                        | ENABLES MASTER FIRE WRN ON TAKE OFF               | INHIBITS MASTER FIRE WARNING DURING TAKE OFF     | 31-51-02 |
| K10238<br>D2754<br>GND | 11        | 9  | 10 |                        | PROVIDES "ON GND" INPUT TO EICAS                  |  | 32-09-02 |
|                        | 7         | 14 | 8  |                        | PROVIDES "ON GND" INPUT TO L FMC                  | PROVIDES "IN AIR" INPUT TO L FMC                 | 34-61-07 |
|                        | 5         | 3  | 4  |                        | INPUT TO CABIN PRESSURE CONTROL                   |  | 21-32-01 |
| K10307<br>D4184<br>GND | D2        | D3 | D1 |                        |   | ENABLES CAPT P/S FAULT IND                       | 30-31-01 |
|                        | C2        | C3 | C1 |                        |   | ENABLES L AUX P/S FAULT IND                      | 30-31-01 |
|                        | B2        | B3 | B1 |                        | ENABLES CAPT AND L AUX P/S LOW HT                 | ENABLES CAPT P/S HI HT                           | 30-31-01 |
| K10384<br>D4706<br>GND | A2        | A3 | A1 |                        | ENABLES CAPT AND L AUX P/S LO HT                  |  | 30-31-01 |
|                        | 5         | 3  | 4  |                        | INHIBITS RAM AIR TURBINE DEPLOYMENT               |  | 29-00-04 |
| K10385<br>D4708<br>GND | 1         | 13 | 2  |                        | PROVIDES "ON GND" INPUT TO CSEU                   | PROVIDES "IN AIR" INPUT TO CSEU                  | 27-09-06 |
|                        | 7         | 14 | 8  | }                      | PROVIDES "ON GND" INPUT TO CSEU (MULTI FUNCTIONS) | PROVIDES "IN AIR" INPUT TO CSEU (MULTI FUNCTION) | 27-09-06 |
|                        | 5         | 3  | 4  |                        |   |  | 27-09-06 |
|                        | 1         | 13 | 2  |                        |   |  | 27-09-06 |
| K10388<br>D4510<br>AIR | 11        | 9  | 10 |                        |   | PROVIDES INPUT TO L VHF BITE                     | 23-12-01 |
|                        | 5         | 3  | 4  |                        | PROVIDES "ON GND" INPUT TO RUD/ELEV PCU MONITOR   | PROVIDES "IN AIR" INPUT TO RUD/ELEV PCU MONITOR  | 27-23-01 |
|                        | 1         | 13 | 2  |                        | ENABLES AUTO BRAKES AFTER WHEEL SPIN UP           |  | 32-42-03 |
| K10306<br>D4182<br>AIR | A2        | A3 | A1 |                        |   | ENABLES AUX POWER                                | 24-25-01 |

|     |   |
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| 002 | <b>LANDING GEAR AIR/GROUND RELAYS</b><br><br><b>D280N032S</b> |
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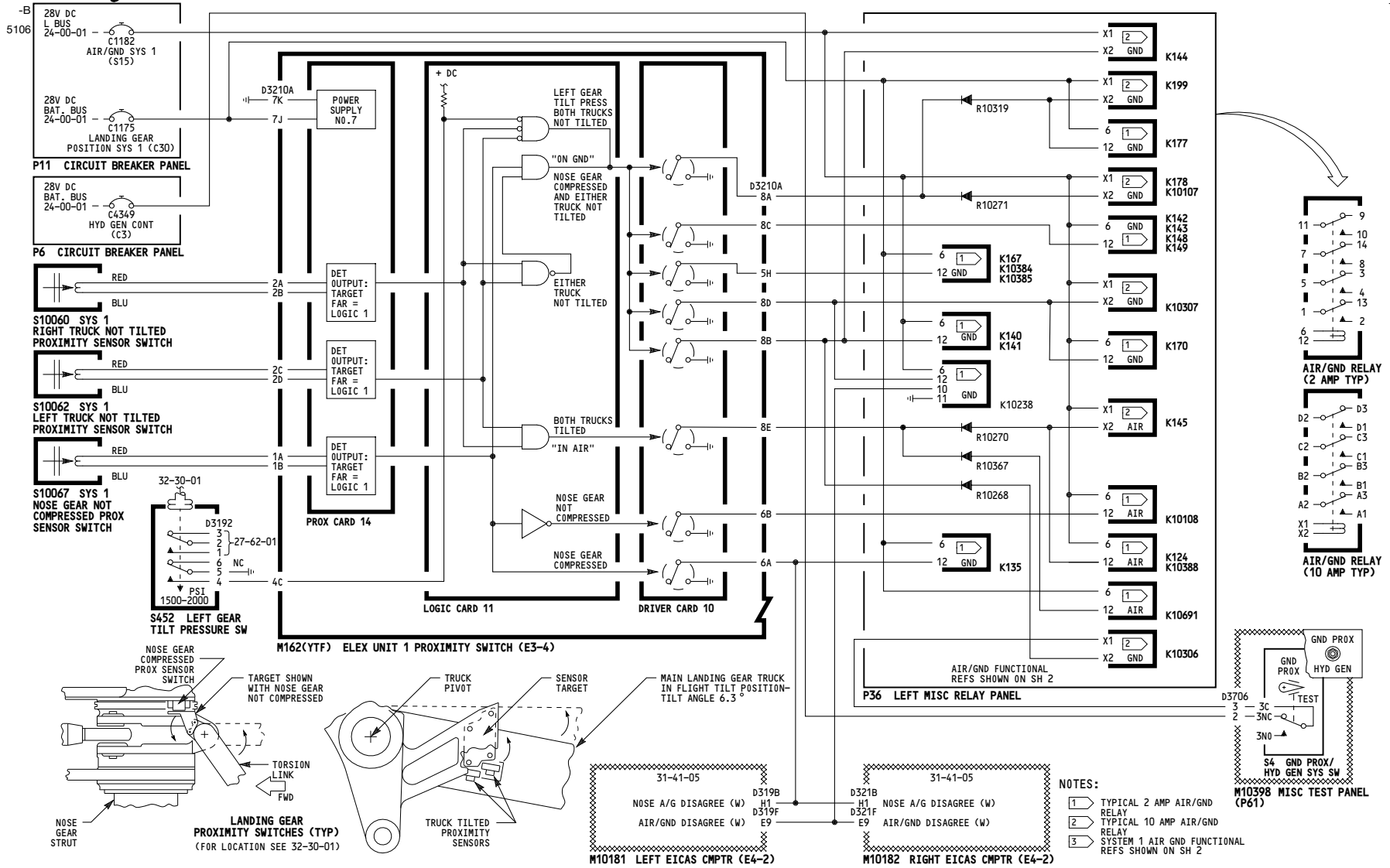
| RELAY                | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC  |          |
|----------------------|-----------|----|----|------------------------|---|--|----------|
|                      | ENERGIZED | C  | NC | NO                     |   |  |          |
| K200<br>D610<br>GND  | 11        | 9  | 10 |                        | ON GROUND   | PROVIDES INPUT TO FUEL QUANTITY PROCESSOR                        | 28-41-01 |
|                      | 7         | 14 | 8  |                        |   | PROVIDES "ON GND" INPUT TO R FMC                                 | 34-61-07 |
|                      |           |    |    |                        |   | PROVIDES "IN AIR" INPUT TO R FMC                                 |          |
| K201<br>D612<br>GND  | 11        | 9  | 10 |                        |   | AFT EQUIP EXHAUST FAN SWITCHING                                  | 21-58-04 |
|                      | 7         | 14 | 8  |                        |   | PROVIDES INPUT TO R ATC TRANSPONDER BITE MEM                     | 34-53-02 |
|                      | 1         | 13 | 2  |                        |   | PROVIDES INPUT TO VHF COMM                                       | 23-12-01 |
| K202<br>D614<br>GND  | 11        | 9  | 10 | }                      | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  | 22-41-01 |
|                      | 7         | 14 | 8  |                        |   |  |          |
|                      | 5         | 3  | 4  | }                      | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   | 22-14-01 |
|                      | 1         | 13 | 2  |                        |   |  |          |
| K203<br>D616<br>GND  | C2        | C3 | C1 |                        | ALLOWS R SYS RUD/ELEV HYD SOV TO CLOSE                                |  | 29-00-03 |
|                      | B2        | B3 | B1 |                        | INHIBITS TAT PROBE HEAT EXC DURING TEST                               | ENABLES TAT PROBE HEAT   | 30-33-01 |
|                      | A2        | A3 | A1 |                        | ENABLES THRUST REVERSERS  | INHIBITS THRUST REVERSERS OPERATION                              | 78-34-02 |
| K204<br>D618<br>GND  | B2        | B3 | B1 |                        | PROVIDES INPUT FOR REDUCED PROBE HEAT                                 |  | 30-31-01 |
|                      | A2        | A3 | A1 |                        | ENABLES WING ANTI-ICE TEST  | ENABLES WING ANTI-ICE  | 30-11-01 |
| K205<br>D620<br>AIR  | C2        | C3 | C1 |                        | ENABLES DRAIN MAST LO HEAT  | ENABLES DRAIN MAST HI HEAT                                       | 30-71-01 |
|                      | B2        | B3 | B1 |                        |   | ENABLES F/O FOOT HEATER  | 21-45-01 |
| K206<br>D622<br>GND  | 11        | 9  | 10 |                        | INHIBITS DFDR OPERATION (ENG RUNNING. SW IN NORM)                     |  | 31-31-01 |
|                      | 1         | 13 | 2  |                        |   | SWITCHES GND POWER   | 24-51-50 |
| K207<br>D624<br>GND  | 5         | 3  | 4  |                        |   | ENABLES STALL WARNING  | 27-32-02 |
|                      | 11        | 9  | 10 |                        | PROVIDES PRESS. OUTFLOW VALVE FULL OPEN                               | ENABLES AUTO 2 CABIN PRESS.                                      | 21-31-02 |
|                      | 1         | 13 | 2  |                        | ENABLES AIR DATA CMPTR TEST   |  | 34-12-02 |
|                      | 7         | 4  | 8  |                        | PROVIDES "ON GND" FOR EICAS   |  | 32-09-02 |
| K208<br>D1868<br>GND | 7         | 14 | 8  |                        | PROVIDES "ON GND" INPUT TO DFDAU                                      | PROVIDES "IN AIR" INPUT TO DFDAU                                 | 31-31-01 |
|                      | 5         | 3  | 4  |                        |   | PROVIDES INPUT TO GPWS BITE                                      | 34-46-01 |
|                      | 1         | 13 | 2  |                        | L PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | L PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN | 21-51-06 |
| K209<br>D626<br>AIR  | A2        | A3 | A1 |                        |   | ENABLES LDG GEAR CONTROL LEVER UP                                | 32-30-01 |
|                      | 7         | 14 | 8  |                        | ENABLES AUTO SPEEDBRAKE   |  | 27-62-01 |
| K211<br>D630<br>GND  | 1         | 13 | 2  |                        | L PACK-HI FLOW CONTROL WITH APU OR GND AIR                            |  | 21-51-01 |
|                      | A2        | A3 | A1 |                        |   | ENABLES P2/T2 PROBE HEAT - R                                     | 30-34-01 |
| K213<br>D634<br>GND  | C2        | C3 | C1 |                        |   | ENABLES R A0A HEAT   | 30-32-02 |
|                      | B2        | B3 | B1 |                        | PROVIDES LO IDLE  | PROVIDES HIGH IDLE WITH LDG FLAPS                                | 73-21-03 |

| RELAY                            | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC   |          |
|----------------------------------|-----------|----|----|------------------------|---|---|----------|
|                                  | ENERGIZED | C  | NC | NO                     |   |   |          |
| K214<br>D636<br>GND              | 11        | 9  | 10 |                        | DRIVES COOLING DOORS FULL OPEN                          | INHIBITS R PACK TEMP CONTROL BITE                           | 21-51-04 |
|                                  | 7         | 14 | 8  |                        | INPUT TO APU  |   | 49-61-01 |
|                                  | 5         | 3  | 4  |                        |   | PROVIDES INPUT TO R RAD ALTM, ILS,<br>VOR, DME AND ADF BITE | 34-33-02 |
|                                  | 1         | 13 | 2  |                        |   | INHIBITS APU SHUTDOWN (BAT. SW OFF)                         | 49-61-01 |
| K215<br>D1872<br>GND             | 11        | 9  | 10 |                        | PROVIDES "ON GND" INPUT TO CSEU                         | PROVIDES "IN AIR" INPUT TO CSEU                             | 27-09-06 |
|                                  | 1         | 13 | 2  |                        |   | ENABLES R STALL WARNING                                     | 27-32-02 |
| K219<br>D1870<br>AIR             | 5         | 3  | 4  |                        |   | INHIBITS APU GND FIRE WARNING HORN                          | 26-15-02 |
|                                  | 7         | 14 | 8  |                        | ENABLES REV THRUST ISLN VALVE FAULT IND                 |   | 78-36-01 |
| K10201<br>D1864<br>GND           | 11        | 9  | 10 |                        | PROVIDES AIR/GND SIGNAL TO WXR                          | PROVIDES AIR/GND SIGNAL TO WXR                              | 34-43-14 |
|                                  | 5         | 3  | 4  |                        |   | AIR SUPPLY APU VALVE CONTROL                                | 36-11-03 |
| K10202<br>D628<br>GND            | 7         | 14 | 8  |                        | R PACK-HI FLOW CONTROL WITH APU OR GND AIR              |   | 21-51-02 |
|                                  | 5         | 3  | 4  |                        | ENABLES EXT PWR PRIORITY OVER R GCU                     |   | 24-22-02 |
| K10203<br>D632<br>AIR            | 1         | 13 | 2  |                        |   | ENABLES ELEC LOAD SHED RESET                                | 24-51-10 |
|                                  | 7         | 14 | 8  |                        | INPUTS FLIGHT COMPLETE TO TCAS                          |   | 34-45-01 |
| K10258<br>D3118<br>AIR           | 7         | 14 | 8  |                        | ENABLES AUTO. BRAKE AFTER WHEEL SPIN UP                 |   | 32-42-03 |
|                                  | D2        | D3 | D1 |                        | ENABLES CAPT AND L AUX P/S LO HT                        |   | 30-31-01 |
| K10308<br>D4090<br>GND           | B2        | B3 | B1 |                        |   | ENABLES L AUX P/S FAULT IND                                 | 30-31-01 |
|                                  | C2        | C3 | C1 |                        | ENABLES P2/T2 PROBE HEAT IND - R ENG RUNNING            |   | 30-34-01 |
|                                  | A2        | A3 | A1 |                        |   | ENABLES CAPT P/S FAULT IND                                  | 30-31-01 |
|                                  | D2        | D3 | D1 |                        |   | ENABLES F/O P/S FAULT IND                                   | 30-31-02 |
| K10309<br>D4092<br>GND           | C2        | C3 | C1 |                        |   | ENABLES R AUX P/S FAULT IND                                 | 30-31-02 |
|                                  | B2        | B3 | B1 |                        | ENABLES F/O AND R AUX P/S LO HT                         |   | 30-31-02 |
|                                  | A2        | A3 | A1 |                        | ENABLES F/O AND R AUX P/S LO HT                         | ENABLES F/O P/S HI HT                                       | 30-31-02 |
|                                  | 7         | 14 | 8  | }                      | PROVIDES "ON GND"<br>INPUT TO CSEU<br>(MULTI-FUNCTIONS) | PROVIDES "IN AIR"<br>INPUT TO CSEU<br>(MULTI FUNCTIONS)     | 27-09-06 |
| 5                                | 3         | 4  |    |                        |   |   |          |
| K10387<br>D4676<br>NOT<br>TILTED | 1         | 13 | 2  |                        | PROVIDES "ON GND" INPUT TO CSEU                         | PROVIDES "IN AIR" INPUT TO CSEU                             | 27-09-06 |

|           |   |
|-----------|---|
| 002       | <b>LANDING GEAR AIR/GROUND<br/>RELAYS</b> |
| D280N032S |   |

Incorporates  
34-0200

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003-099

**LANDING GEAR AIR/GROUND RELAYS**

D280N032S

**32-09-02**

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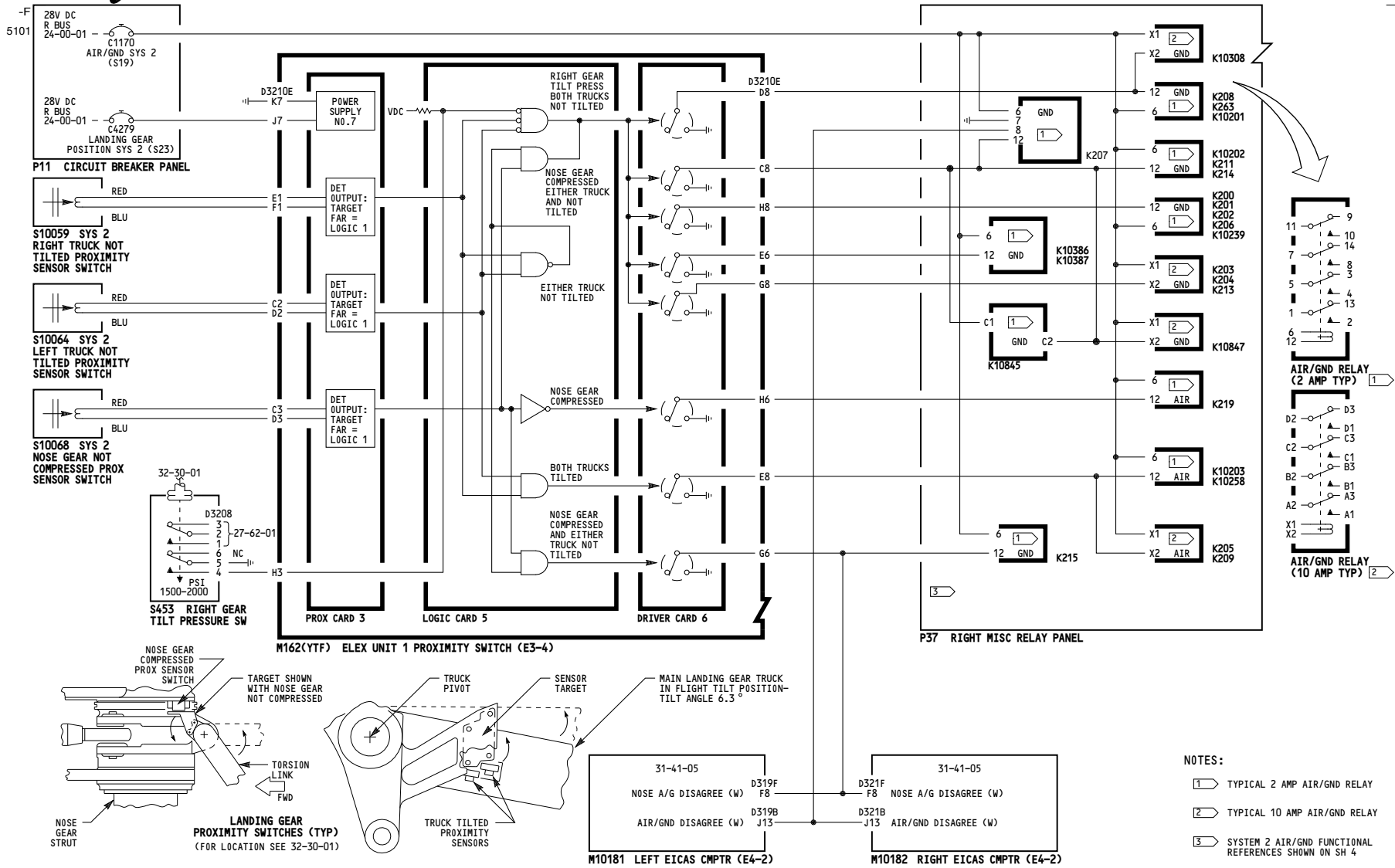
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| RELAY                | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC  |
|----------------------|-----------|----|----|------------------------|---|--|
|                      | ENERGIZED | C  | NC | NO                     | ON GROUND   |  |
| K124<br>D582<br>AIR  | 5         | 3  | 4  |                        | ACARS INPUT   | 23-22-01   |
|                      | 1         | 13 | 2  |                        | ENABLES L RECIRC FAN  | 21-25-01   |
|                      | 7         | 14 | 8  |                        |   | INHIBITS EQUIP COOL. GND HORN                                    |
| K135<br>D1780<br>GND | 11        | 9  | 10 |                        | PROVIDES "ON GND" INPUT TO CSEU                                       | PROVIDES "IN AIR" INPUT TO CSEU                                  |
|                      | 7         | 14 | 8  |                        |   | ENABLES L STALL WARNING  |
|                      | 5         | 3  | 4  |                        | ENABLES VOICE RC DR ERASE (BRAKES SET)                                |  |
|                      | 1         | 13 | 2  |                        |   | INHIBITS TAKE OFF WARNING  |
| K140<br>D584<br>GND  | 11        | 9  | 10 |                        | ENABLES EICAS MAINT FUNCTION  | 31-41-01   |
|                      | 5         | 3  | 4  |                        | DRIVES COOLING DOORS FULL OPEN  | INHIBITS L PACK TEMP CONTROL BITE                                |
|                      | 1         | 13 | 2  |                        | PROVIDES INPUT TO L FUEL QTY PROCESSOR                                | PROVIDES INPUT TO L FUEL QTY PROCESSOR                           |
| K141<br>D586<br>GND  | 7         | 14 | 8  |                        | ENABLES P3-3 MD&T AND P1-3 MD&T                                       | 33-16-02   |
|                      | 1         | 13 | 2  |                        |   | INHIBITS ZONE TEMP CONT BITE                                     |
| K142<br>D588<br>GND  | 11        | 9  | 10 | }                      | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  |
|                      | 7         | 14 | 8  |                        |   | 22-41-01   |
|                      | 5         | 3  | 4  | }                      | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   |
|                      | 1         | 13 | 2  |                        |   | 22-14-01   |
| K143<br>D590<br>GND  | 11        | 9  | 10 |                        | PROVIDES INPUT TO L ATC TRANSPONDER BITE MEM                          | 34-53-01   |
|                      | 7         | 14 | 8  |                        | PROVIDES INPUT TO C RAD ALTM AND ILS BITE                             | 34-33-03   |
|                      | 5         | 3  | 4  |                        | ARMS TAT PROBE FAULT IND DURING TEST                                  | ARMS TAT PROBE HEAT FAULT IND                                    |
|                      | 1         | 13 | 2  |                        | PROVIDES "ON GND" INPUT TO TMC  | 22-32-01   |
| K144<br>D592<br>GND  | C2        | C3 | C1 |                        | INHIBITS A0A HEAT (ENGS RUNNING)                                      | ENABLES L A0A HEAT   |
| K145<br>D594<br>AIR  | D2        | D3 | D1 |                        |   | ENABLES CAPT FOOT HEATER   |
|                      | B2        | B3 | B1 |                        | ENABLES AUTO APU FIRE EXT (ENGS RUNNING)                              | 26-22-01   |
| K148<br>D600<br>GND  | 5         | 3  | 4  |                        | ENABLES R REV THRUST FAULT ISLN VALVE IND                             | 78-36-01   |
|                      | 11        | 9  | 10 |                        | ENABLES AIR DATA CMPTR TEST   | 34-12-01   |
|                      | 7         | 14 | 8  |                        |   | INHIBITS TAKEOFF WARNING   |
| K149<br>D602<br>GND  | 1         | 13 | 2  |                        |   | INHIBITS EQUIP COOL TEST FUNCTIONS                               |
|                      | 11        | 9  | 10 |                        | ENABLES STALL WARN SELF TEST  | 27-32-01   |
|                      | 5         | 3  | 4  |                        | ENABLES ELEC LOAD SHED  | 24-51-15   |
| K167<br>D1782<br>GND | 1         | 13 | 2  |                        | ENABLES L FWD FUEL BOOST PUMP AUTO OPERATION WITH SWITCH OFF (APU ON) | 28-25-01   |
|                      | 11        | 9  | 10 |                        | THRUST REV SYNC LOCK  | 78-34-51   |
|                      | 7         | 14 | 8  |                        |   | PROVIDES INPUT TO L RAD ALTM, ILS, VOR, DME AND ADF BITE         |
|                      | 5         | 3  | 4  |                        | ENABLES AUTO SPEEDBRAKE   | 27-62-01   |
|                      | 1         | 13 | 2  |                        | R PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | R PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN |

| RELAY                  | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC                              |
|------------------------|-----------|----|----|------------------------|---|--|
|                        | ENERGIZED | C  | NC | NO                     | ON GROUND   |  |
| K170<br>D604<br>GND    | 11        | 9  | 10 |                        | ENABLES MD&T FOR P3-1 AND P3-3                    | 33-16-02   |
|                        | 7         | 14 | 8  |                        |   |  |
| K177<br>D606<br>GND    | 11        | 9  | 10 |                        | ENABLES MD&T FOR P3-1 AND P3-3                    | 33-16-02   |
|                        | 5         | 3  | 4  |                        |   |  |
|                        | D2        | D3 | D1 |                        |   | ENABLES R AUX P/S FAULT IND                      |
| K178<br>D608<br>GND    | C2        | C3 | C1 |                        |   | ENABLES F/O P/S FAULT IND                        |
|                        | B2        | B3 | B1 |                        | ENABLES F/O AND R AUX P/S LO HT                   | 30-31-02   |
|                        | A2        | A3 | A1 |                        |   | PROVIDE P1 PROBE HEAT IND                        |
|                        | D2        | D3 | D1 |                        | ALLOWS C RUD/ELEV SOV TO CLOSE                    | 29-00-04   |
| K199<br>D598<br>GND    | C2        | C3 | C1 |                        | ENABLES THRUST REVERSERS                          | 78-34-01   |
|                        | B2        | B3 | B1 |                        | ENGINE CONTROL - LOW IDLE                         | ENABLES HIGH IDLE WITH LANDING FLAPS             |
|                        | A2        | A3 | A1 |                        | ENABLES THRUST REVERSERS OPERATION                | INHIBIT THRUST REVERSERS                         |
|                        | D2        | D3 | D1 |                        | ALLOWS L RUD/ELEV SOV TO CLOSE                    | 29-00-02   |
| K10107<br>D596<br>GND  | C2        | C3 | C1 |                        | ENABLES F/O & R AUX P/S LO HT                     | 30-31-02   |
|                        | A2        | A3 | A1 |                        |   | ENABLE P1 PROBE HEAT                             |
| K10108<br>D1784<br>AIR | 11        | 9  | 10 |                        | PROVIDES INPUT TO BUS PWR CONTROL UNIT            | PROVIDES INPUT TO BUS POWER CONTROL UNIT         |
|                        | 7         | 14 | 8  |                        |   | INHIBITS AURAL WARNING DURING TAKE OFF           |
|                        | 1         | 13 | 2  |                        | ENABLES MASTER FIRE WRN ON TAKE OFF               | INHIBITS MASTER FIRE WARNING DURING TAKE OFF     |
| K10238<br>D2754<br>GND | 11        | 9  | 10 |                        | PROVIDES "ON GND" INPUT TO EICAS                  | 32-09-02   |
|                        | 7         | 14 | 8  |                        | PROVIDES "ON GND" INPUT TO L FMC                  | PROVIDES "IN AIR" INPUT TO L FMC                 |
|                        | 5         | 3  | 4  |                        | INPUT TO CABIN PRESSURE CONTROL                   | 21-32-01   |
| K10307<br>D4184<br>GND | D2        | D3 | D1 |                        |   | ENABLES CAPT P/S FAULT IND                       |
|                        | C2        | C3 | C1 |                        |   | ENABLES L AUX P/S FAULT IND                      |
|                        | B2        | B3 | B1 |                        | ENABLES CAPT AND L AUX P/S LOW HT                 | ENABLES CAPT P/S HI HT                           |
| K10384<br>D4706<br>GND | A2        | A3 | A1 |                        | ENABLES CAPT AND L AUX P/S LO HT                  | 30-31-01   |
|                        | 5         | 3  | 4  |                        | INHIBITS RAM AIR TURBINE DEPLOYMENT               | 29-00-04   |
| K10385<br>D4708<br>GND | 1         | 13 | 2  |                        | PROVIDES "ON GND" INPUT TO CSEU                   | PROVIDES "IN AIR" INPUT TO CSEU                  |
|                        | 7         | 14 | 8  | }                      | PROVIDES "ON GND" INPUT TO CSEU (MULTI FUNCTIONS) | PROVIDES "IN AIR" INPUT TO CSEU (MULTI FUNCTION) |
|                        | 5         | 3  | 4  |                        |   | 27-09-06   |
| K10388<br>D4510<br>AIR | 1         | 13 | 2  |                        |   | 27-09-06   |
|                        | 11        | 9  | 10 |                        | PROVIDES INPUT TO L VHF BITE                      | 23-12-01   |
|                        | 5         | 3  | 4  |                        | PROVIDES "ON GND" INPUT TO RUD/ELEV PCU MONITOR   | PROVIDES "IN AIR" INPUT TO RUD/ELEV PCU MONITOR  |
|                        | 1         | 13 | 2  |                        | ENABLES AUTO BRAKES AFTER WHEEL SPIN UP           | 32-42-03   |

|         |   |
|---------|---|
| 003-099 | <p><b>LANDING GEAR AIR/GROUND RELAYS</b></p> <p>D280N032S</p> |
|---------|---|

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- NOTES:**
- ① TYPICAL 2 AMP AIR/GND RELAY
  - ② TYPICAL 10 AMP AIR/GND RELAY
  - ③ SYSTEM 2 AIR/GND FUNCTIONAL REFERENCES SHOWN ON SH 4

|           |                                       |
|-----------|---------------------------------------|
| 003-099   | <b>LANDING GEAR AIR/GROUND RELAYS</b> |
| D280N032S |                                       |

**32-09-02**



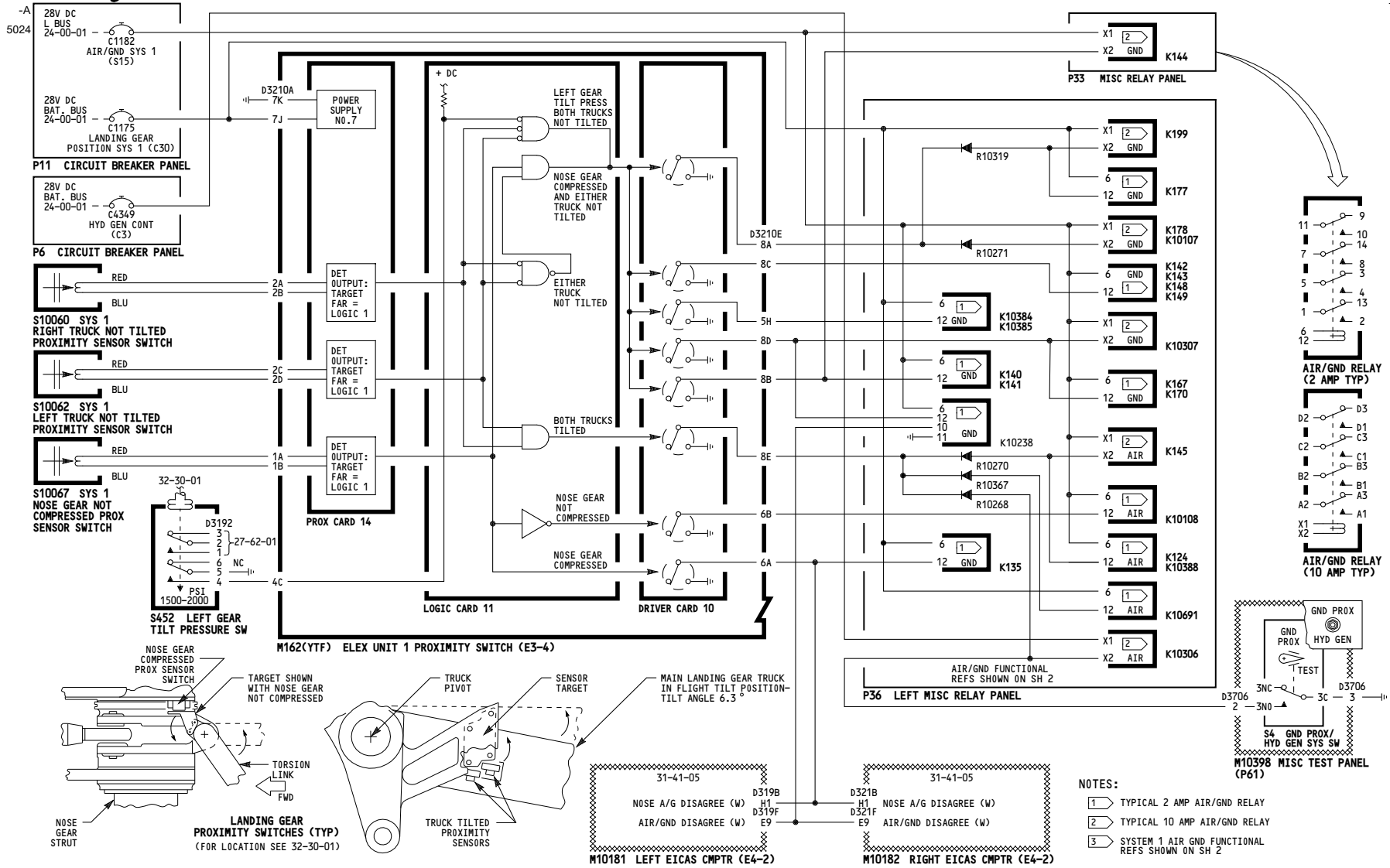
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| RELAY                | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC  |          |
|----------------------|-----------|----|----|------------------------|---|--|----------|
|                      | ENERGIZED | C  | NC | NO                     |   |  |          |
| K200<br>D610<br>GND  | 11        | 9  | 10 |                        | ON GROUND   | PROVIDES INPUT TO FUEL QUANTITY PROCESSOR                        | 28-41-01 |
|                      | 7         | 14 | 8  |                        |   | PROVIDES "ON GND" INPUT TO R FMC                                 | 34-61-07 |
|                      |           |    |    |                        |   | PROVIDES "IN AIR" INPUT TO R FMC                                 |          |
| K201<br>D612<br>GND  | 11        | 9  | 10 |                        |   | AFT EQUIP EXHAUST FAN SWITCHING                                  | 21-58-04 |
|                      | 7         | 14 | 8  |                        |   | PROVIDES INPUT TO R ATC TRANSPONDER BITE MEM                     | 34-53-02 |
|                      | 1         | 13 | 2  |                        |   | PROVIDES INPUT TO VHF COMM                                       | 23-12-01 |
| K202<br>D614<br>GND  | 11        | 9  | 10 | }                      | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  | 22-41-01 |
|                      | 7         | 14 | 8  |                        |   |  |          |
|                      | 5         | 3  | 4  | }                      | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   | 22-14-01 |
|                      | 1         | 13 | 2  |                        |   |  |          |
| K203<br>D616<br>GND  | C2        | C3 | C1 |                        | ALLOWS R SYS RUD/ELEV HYD SOV TO CLOSE                                |  | 29-00-03 |
|                      | B2        | B3 | B1 |                        | INHIBITS TAT PROBE HEAT EXC DURING TEST                               | ENABLES TAT PROBE HEAT   | 30-33-01 |
|                      | A2        | A3 | A1 |                        | ENABLES THRUST REVERSERS  | INHIBITS THRUST REVERSERS OPERATION                              | 78-34-02 |
| K204<br>D618<br>GND  | B2        | B3 | B1 |                        | PROVIDES INPUT FOR REDUCED PROBE HEAT                                 |  | 30-31-01 |
|                      | A2        | A3 | A1 |                        | ENABLES WING ANTI-ICE TEST  | ENABLES WING ANTI-ICE  | 30-11-01 |
| K205<br>D620<br>AIR  | C2        | C3 | C1 |                        | ENABLES DRAIN MAST LO HEAT  | ENABLES DRAIN MAST HI HEAT                                       | 30-71-01 |
|                      | B2        | B3 | B1 |                        |   | ENABLES F/O FOOT HEATER  | 21-45-01 |
| K206<br>D622<br>GND  | 11        | 9  | 10 |                        | INHIBITS DFDR OPERATION (ENG RUNNING. SW IN NORM)                     |  | 31-31-01 |
|                      | 1         | 13 | 2  |                        |   | SWITCHES GND POWER   | 24-51-50 |
| K207<br>D624<br>GND  | 5         | 3  | 4  |                        |   | ENABLES STALL WARNING  | 27-32-02 |
|                      | 11        | 9  | 10 |                        | PROVIDES PRESS. OUTFLOW VALVE FULL OPEN                               | ENABLES AUTO 2 CABIN PRESS.                                      | 21-31-02 |
|                      | 1         | 13 | 2  |                        | ENABLES AIR DATA CMPTR TEST   |  | 34-12-02 |
|                      | 7         | 4  | 8  |                        | PROVIDES "ON GND" FOR EICAS   |  | 32-09-02 |
| K208<br>D1868<br>GND | 7         | 14 | 8  |                        | PROVIDES "ON GND" INPUT TO DFDAU                                      | PROVIDES "IN AIR" INPUT TO DFDAU                                 | 31-31-01 |
|                      | 5         | 3  | 4  |                        |   | PROVIDES INPUT TO GPWS BITE                                      | 34-46-01 |
|                      | 1         | 13 | 2  |                        | L PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | L PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN | 21-51-06 |
| K209<br>D626<br>AIR  | A2        | A3 | A1 |                        |   | ENABLES LDG GEAR CONTROL LEVER UP                                | 32-30-01 |
|                      | 7         | 14 | 8  |                        | ENABLES AUTO SPEEDBRAKE   |  | 27-62-01 |
| K211<br>D630<br>GND  | 1         | 13 | 2  |                        | L PACK-HI FLOW CONTROL WITH APU OR GND AIR                            |  | 21-51-01 |
|                      | A2        | A3 | A1 |                        |   | ENABLES P2/T2 PROBE HEAT - R                                     | 30-34-01 |
| K213<br>D634<br>GND  | C2        | C3 | C1 |                        |   | ENABLES R A0A HEAT   | 30-32-02 |
|                      | B2        | B3 | B1 |                        | PROVIDES LO IDLE  | PROVIDES HIGH IDLE WITH LDG FLAPS                                | 73-21-03 |

| RELAY                            | POLE      |    |    | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC   |          |          |
|----------------------------------|-----------|----|----|------------------------|---|---|----------|----------|
|                                  | ENERGIZED | C  | NC | NO                     |   |   |          |          |
| K214<br>D636<br>GND              | 11        | 9  | 10 |                        | DRIVES COOLING DOORS FULL OPEN                          | INHIBITS R PACK TEMP CONTROL BITE                           | 21-51-04 |          |
|                                  | 7         | 14 | 8  |                        | INPUT TO APU  |   | 49-61-01 |          |
|                                  | 5         | 3  | 4  |                        |   | PROVIDES INPUT TO R RAD ALTM, ILS,<br>VOR, DME AND ADF BITE | 34-33-02 |          |
|                                  | 1         | 13 | 2  |                        |   | INHIBITS APU SHUTDOWN (BAT. SW OFF)                         | 49-61-01 |          |
| K215<br>D1872<br>GND             | 11        | 9  | 10 |                        | PROVIDES "ON GND" INPUT TO CSEU                         | PROVIDES "IN AIR" INPUT TO CSEU                             | 27-09-06 |          |
|                                  | 1         | 13 | 2  |                        |   | ENABLES R STALL WARNING                                     | 27-32-02 |          |
| K219<br>D1870<br>AIR             | 5         | 3  | 4  |                        |   | INHIBITS APU GND FIRE WARNING HORN                          | 26-15-02 |          |
|                                  | 7         | 14 | 8  |                        | ENABLES REV THRUST ISLN VALVE FAULT IND                 |   | 78-36-01 |          |
| K10201<br>D1864<br>GND           | 5         | 3  | 4  |                        |   | AIR SUPPLY APU VALVE CONTROL                                | 36-11-03 |          |
|                                  | 7         | 14 | 8  |                        | R PACK-HI FLOW CONTROL WITH APU OR GND AIR              |   | 21-51-02 |          |
| K10203<br>D632<br>AIR            | 5         | 3  | 4  |                        | ENABLES EXT PWR PRIORITY OVER R GCU                     |   | 24-22-02 |          |
|                                  | 1         | 13 | 2  |                        |   | ENABLES ELEC LOAD SHED RESET                                | 24-51-10 |          |
| K10239<br>D2676<br>GND           | 7         | 14 | 8  |                        | INPUTS FLIGHT COMPLETE TO TCAS                          |   | 34-45-01 |          |
|                                  | 7         | 14 | 8  |                        | ENABLES AUTO. BRAKE AFTER WHEEL SPIN UP                 |   | 32-42-03 |          |
| K10308<br>D4090<br>GND           | D2        | D3 | D1 |                        | ENABLES CAPT AND L AUX P/S LO HT                        |   | 30-31-01 |          |
|                                  | B2        | B3 | B1 |                        |   | ENABLES L AUX P/S FAULT IND                                 | 30-31-01 |          |
|                                  | C2        | C3 | C1 |                        | ENABLES P2/T2 PROBE HEAT IND - R ENG RUNNING            |   | 30-34-01 |          |
|                                  | A2        | A3 | A1 |                        |   | ENABLES CAPT P/S FAULT IND                                  | 30-31-01 |          |
| K10309<br>D4092<br>GND           | D2        | D3 | D1 |                        |   | ENABLES F/O P/S FAULT IND                                   | 30-31-02 |          |
|                                  | C2        | C3 | C1 |                        |   | ENABLES R AUX P/S FAULT IND                                 | 30-31-02 |          |
|                                  | B2        | B3 | B1 |                        | ENABLES F/O AND R AUX P/S LO HT                         |   | 30-31-02 |          |
|                                  | A2        | A3 | A1 |                        | ENABLES F/O AND R AUX P/S LO HT                         | ENABLES F/O P/S HI HT                                       | 30-31-02 |          |
| K10386<br>D4674<br>NOT<br>TILTED | 7         | 14 | 8  | }                      | PROVIDES "ON GND"<br>INPUT TO CSEU<br>(MULTI-FUNCTIONS) | PROVIDES "IN AIR"<br>INPUT TO CSEU<br>(MULTI FUNCTIONS)     | 27-09-06 |          |
|                                  | 5         | 3  | 4  |                        |   |   |          | 27-09-06 |
|                                  | 1         | 13 | 2  |                        |   |   |          | 27-09-06 |
| K10387<br>D4676<br>NOT<br>TILTED | 1         | 13 | 2  |                        | PROVIDES "ON GND" INPUT TO CSEU                         | PROVIDES "IN AIR" INPUT TO CSEU                             | 27-09-06 |          |

|                  |                                       |
|------------------|---------------------------------------|
| 003-099          | <b>LANDING GEAR AIR/GROUND RELAYS</b> |
| <b>D280N032S</b> |                                       |

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| <p>115-199</p> | <p><b>LANDING GEAR AIR/GROUND RELAYS</b></p> <p>D280N032S</p> |
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757-200 SYSTEM SCHEMATIC MANUAL

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| RELAY                | POLE      |    |          | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC  |          |
|----------------------|-----------|----|----------|------------------------|---|--|----------|
|                      | ENERGIZED | C  | NC       | NO                     |   |  |          |
| K124<br>D582<br>AIR  | 5         | 3  | 4        |                        | ACARS INPUT   | 23-22-01   |          |
|                      | 1         | 13 | 2        |                        | ENABLES L RECIRC FAN  | 21-25-01   |          |
|                      | 7         | 14 | 8        |                        | INHIBITS EQUIP COOL. GND HORN   | 21-58-01   |          |
| K135<br>D1780<br>GND | 11        | 9  | 10       |                        | PROVIDES "ON GND" INPUT TO CSEU                                       | PROVIDES "IN AIR" INPUT TO CSEU                                  | 27-09-06 |
|                      | 7         | 14 | 8        |                        | ENABLES L STALL WARNING   |  | 27-32-01 |
|                      | 5         | 3  | 4        |                        | ENABLES VOICE RCDR ERASE (BRAKES SET)                                 |  | 23-71-01 |
|                      | 1         | 13 | 2        |                        | INHIBITS TAKE OFF WARNING   |  | 31-51-05 |
| K140<br>D584<br>GND  | 11        | 9  | 10       |                        | ENABLES EICAS MAINT FUNCTION  |  | 31-41-01 |
|                      | 5         | 3  | 4        |                        | DRIVES COOLING DOORS FULL OPEN  | INHIBITS L PACK TEMP CONTROL BITE                                | 21-51-03 |
| K141<br>D586<br>GND  | 7         | 14 | 8        |                        | ENABLES P3-3 MD&T AND P1-3 MD&T                                       |  | 33-16-02 |
|                      | 1         | 13 | 2        |                        |   | INHIBITS ZONE TEMP CONT BITE                                     | 21-61-01 |
| K142<br>D588<br>GND  | 11        | 9  | 10       | }                      | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  | 22-41-01 |
|                      | 7         | 14 | 8        |                        |   |  | 22-41-01 |
|                      | 5         | 3  | 4        | }                      | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   | 22-14-01 |
| 1                    | 13        | 2  | 22-14-01 |                        |   |  |          |
| K143<br>D590<br>GND  | 11        | 9  | 10       |                        | PROVIDES INPUT TO L ATC TRANSPONDER BITE MEM                          |  | 34-53-01 |
|                      | 7         | 14 | 8        |                        | PROVIDES INPUT TO C RAD ALTM AND ILS BITE                             |  | 34-33-03 |
|                      | 5         | 3  | 4        |                        | ARMS TAT PROBE FAULT IND DURING TEST                                  | ARMS TAT PROBE HEAT FAULT IND                                    | 30-33-01 |
|                      | 1         | 13 | 2        |                        | PROVIDES "ON GND" INPUT TO TMC  |  | 22-32-01 |
| K144<br>D592<br>GND  | C2        | C3 | C1       |                        | INHIBITS A0A HEAT (ENGS RUNNING)                                      | ENABLES L A0A HEAT   | 30-32-01 |
|                      | D2        | D3 | D1       |                        |   | ENABLES CAPT FOOT HEATER   | 21-45-01 |
| K145<br>D594<br>AIR  |           |    |          |                        |   |  |          |
|                      | B2        | B3 | B1       |                        | ENABLES AUTO APU FIRE EXT (ENGS RUNNING)                              |  | 26-22-01 |
| K148<br>D600<br>GND  | 11        | 9  | 10       |                        | ENABLES AIR DATA CMPTR TEST   |  | 34-12-01 |
|                      | 7         | 14 | 8        |                        |   | INHIBITS TAKEOFF WARNING   | 31-51-03 |
|                      | 1         | 13 | 2        |                        |   | INHIBITS EQUIP COOL TEST FUNCTIONS                               | 21-58-03 |
| K149<br>D602<br>GND  | 11        | 9  | 10       |                        | ENABLES STALL WARN SELF TEST  |  | 27-32-01 |
|                      | 5         | 3  | 4        |                        | ENABLES ELEC LOAD SHED  |  | 24-51-15 |
|                      | 1         | 13 | 2        |                        | ENABLES L FWD FUEL BOOST PUMP AUTO OPERATION WITH SWITCH OFF (APU ON) |  | 28-25-01 |
| K167<br>D1782<br>GND | 7         | 14 | 8        |                        |   | PROVIDES INPUT TO L RAD ALTM, ILS, VOR, DME AND ADF BITE         | 34-33-01 |
|                      | 5         | 3  | 4        |                        | ENABLES AUTO SPEEDBRAKE   |  | 27-62-01 |
|                      | 1         | 13 | 2        |                        | R PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | R PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN | 21-51-05 |
| K10691<br>D6914      | 1         | 13 | 2        |                        | PROVIDES INPUT TO L FUEL QTY PROCESSOR                                | PROVIDES INPUT TO L FUEL QTY PROCESSOR                           | 28-41-01 |

| RELAY                  | POLE      |    |          | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC                              |          |
|------------------------|-----------|----|----------|------------------------|---|--|----------|
|                        | ENERGIZED | C  | NC       | NO                     |   |  |          |
| K170<br>D604<br>GND    | 11        | 9  | 10       |                        | ENABLES MD&T FOR P3-1 AND P3-3                    |  | 33-16-02 |
|                        |           |    |          |                        |   |  |          |
| K177<br>D606<br>GND    | 7         | 14 | 8        |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
|                        | 11        | 9  | 10       |                        | ENABLES MD&T FOR P3-1 AND P3-3                    |  | 33-16-02 |
|                        | 5         | 3  | 4        |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
| K178<br>D608<br>GND    | D2        | D3 | D1       |                        |   | ENABLES R AUX P/S FAULT IND                      | 30-31-02 |
|                        | C2        | C3 | C1       |                        |   | ENABLES F/O P/S FAULT IND                        | 30-31-02 |
|                        | B2        | B3 | B1       |                        | ENABLES F/O AND R AUX P/S LO HT                   |  | 30-31-02 |
|                        | A2        | A3 | A1       |                        |   | PROVIDE P1 PROBE HEAT IND                        | 30-34-01 |
| K199<br>D598<br>GND    | D2        | D3 | D1       |                        | ALLOWS C RUD/ELEV SOV TO CLOSE                    |  | 29-00-04 |
|                        | C2        | C3 | C1       |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
|                        | B2        | B3 | B1       |                        | ENGINE CONTROL - LOW IDLE                         | ENABLES HIGH IDLE WITH LANDING FLAPS             | 73-21-03 |
|                        | A2        | A3 | A1       |                        | ENABLES THRUST REVERSERS OPERATION                | INHIBIT THRUST REVERSERS                         | 78-34-01 |
| K10107<br>D596<br>GND  | D2        | D3 | D1       |                        | ALLOWS L RUD/ELEV SOV TO CLOSE                    |  | 29-00-02 |
|                        | C2        | C3 | C1       |                        | ENABLES F/O & R AUX P/S LO HT                     |  | 30-31-02 |
|                        | A2        | A3 | A1       |                        |   | ENABLE P1 PROBE HEAT                             | 30-34-01 |
| K10108<br>D1784<br>AIR | 11        | 9  | 10       |                        | PROVIDES INPUT TO BUS PWR CONTROL UNIT            | PROVIDES INPUT TO BUS POWER CONTROL UNIT         | 24-22-08 |
|                        | 7         | 14 | 8        |                        |   | INHIBITS AURAL WARNING DURING TAKE OFF           | 31-51-07 |
| K10238<br>D2754<br>GND | 1         | 13 | 2        |                        | ENABLES MASTER FIRE WRN ON TAKE OFF               | INHIBITS MASTER FIRE WARNING DURING TAKE OFF     | 31-51-02 |
|                        | 11        | 9  | 10       |                        | PROVIDES "ON GND" INPUT TO EICAS                  |  | 32-09-02 |
|                        | 7         | 14 | 8        |                        | PROVIDES "ON GND" INPUT TO L FMC                  | PROVIDES "IN AIR" INPUT TO L FMC                 | 34-61-07 |
| K10307<br>D4184<br>GND | 5         | 3  | 4        |                        | INPUT TO CABIN PRESSURE CONTROL                   |  | 21-32-01 |
|                        |           |    |          |                        |   |  |          |
|                        | D2        | D3 | D1       |                        |   | ENABLES CAPT P/S FAULT IND                       | 30-31-01 |
| K10384<br>D4706<br>GND | C2        | C3 | C1       |                        |   | ENABLES L AUX P/S FAULT IND                      | 30-31-01 |
|                        | B2        | B3 | B1       |                        | ENABLES CAPT AND L AUX P/S LOW HT                 | ENABLES CAPT P/S HI HT                           | 30-31-01 |
|                        | A2        | A3 | A1       |                        | ENABLES CAPT AND L AUX P/S LO HT                  |  | 30-31-01 |
| K10385<br>D4708<br>GND | 5         | 3  | 4        |                        | INHIBITS RAM AIR TURBINE DEPLOYMENT               |  | 29-00-04 |
|                        | 1         | 13 | 2        |                        | PROVIDES "ON GND" INPUT TO CSEU                   | PROVIDES "IN AIR" INPUT TO CSEU                  | 27-09-06 |
|                        | 7         | 14 | 8        | }                      | PROVIDES "ON GND" INPUT TO CSEU (MULTI FUNCTIONS) | PROVIDES "IN AIR" INPUT TO CSEU (MULTI FUNCTION) | 27-09-06 |
| 5                      | 3         | 4  | 27-09-06 |                        |   |  |          |
| K10388<br>D4510<br>AIR | 1         | 13 | 2        |                        |   |  | 27-09-06 |
|                        | 11        | 9  | 10       |                        |   | PROVIDES INPUT TO L VHF BITE                     | 23-12-01 |
|                        | 5         | 3  | 4        |                        | PROVIDES "ON GND" INPUT TO RUD/ELEV PCU MONITOR   | PROVIDES "IN AIR" INPUT TO RUD/ELEV PCU MONITOR  | 27-23-01 |
| K10306<br>D4182<br>AIR | 1         | 13 | 2        |                        | ENABLES AUTO BRAKES AFTER WHEEL SPIN UP           |  | 32-42-03 |
|                        | A2        | A3 | A1       |                        |   | ENABLES AUX POWER                                | 24-25-01 |

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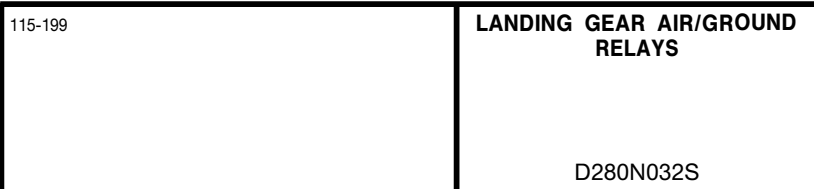
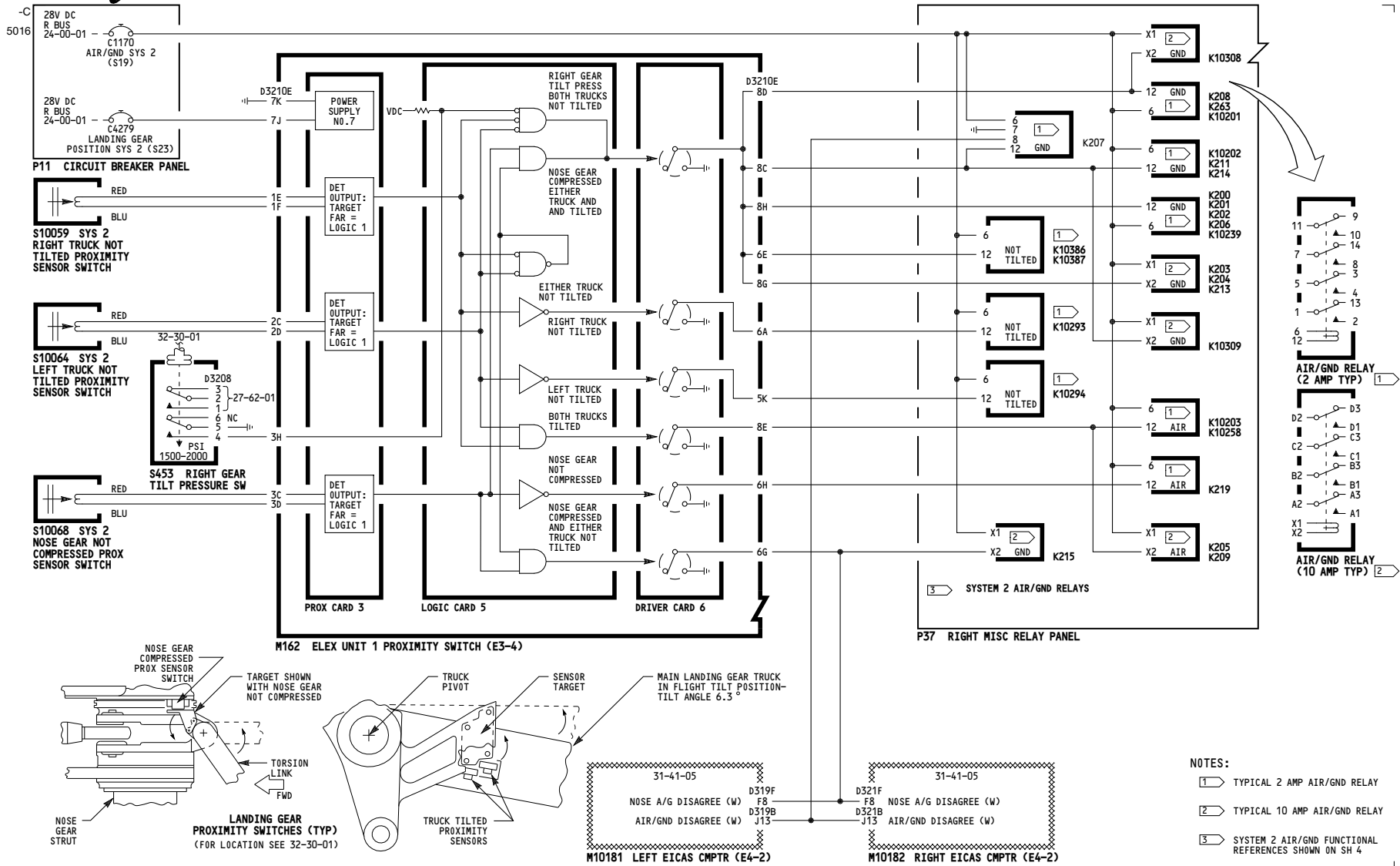
**LANDING GEAR AIR/GROUND RELAYS**

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**LANDING GEAR AIR/GROUND RELAYS**

D280N032S

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| RELAY                | POLE |    |          | NORMAL SYSTEM FUNCTION  |  | REFERENCE SCHEMATIC |
|----------------------|------|----|----------|---|--|---------------------|
|                      | C    | NC | NO       | ON GROUND   | IN AIR   |                     |
| K200<br>D610<br>GND  | 7    | 14 | 8        | PROVIDES "ON GND" INPUT TO R FMC                                      | PROVIDES "IN AIR" INPUT TO R FMC                                 | 34-61-07            |
|                      |      |    |          |   |  |                     |
|                      |      |    |          |   |  |                     |
| K201<br>D612<br>GND  | 11   | 9  | 10       |   | AFT EQUIP EXHAUST FAN SWITCHING                                  | 21-58-04            |
|                      | 7    | 14 | 8        |   | PROVIDES INPUT TO R ATC TRANSPONDER BITE MEM                     | 34-53-02            |
|                      |      |    |          |   |  | 21-58-04            |
| K202<br>D614<br>GND  | 1    | 13 | 2        |   | PROVIDES INPUT TO R VHF BITE                                     | 23-12-02            |
|                      | 11   | 9  | 10       | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  | 22-41-01            |
|                      | 7    | 14 | 8        |   |  | 22-41-01            |
|                      | 5    | 3  | 4        | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   | 22-14-01            |
| 1                    | 13   | 2  | 22-14-01 |   |  |                     |
| K203<br>D616<br>GND  | C2   | C3 | C1       | ALLOWS R SYS RUD/ELEV HYD SOV TO CLOSE                                |  | 29-00-03            |
|                      | B2   | B3 | B1       | INHIBITS TAT PROBE HEAT EXC DURING TEST                               | ENABLES TAT PROBE HEAT   | 30-33-01            |
|                      | A2   | A3 | A1       | ENABLES THRUST REVERSERS  | INHIBITS THRUST REVERSERS OPERATION                              | 78-34-02            |
| K204<br>D618<br>GND  | D2   | D3 | D1       |   |  |                     |
|                      | C2   | C3 | C1       |   |  |                     |
|                      | B2   | B3 | B1       | ENABLES CAPT & L AUX P/S LO HT  |  | 30-31-01            |
| K205<br>D620<br>AIR  | A2   | A3 | A1       | ENABLES WING ANTI-ICE TEST  | ENABLES WING ANTI-ICE  | 30-11-01            |
|                      | C2   | C3 | C1       | ENABLES DRAIN MAST LO HEAT  | ENABLES DRAIN MAST HI HEAT                                       | 30-71-01            |
| K206<br>D622<br>GND  | B2   | B3 | B1       |   | ENABLES FIRST OFFICERS FOOT HEATER                               | 21-45-01            |
|                      | 1    | 13 | 2        |   | SWITCHES GND POWER   |                     |
| K207<br>D624<br>GND  | 11   | 9  | 10       | INHIBITS DFDR OPERATION<br>(ENG RUNNING, SW IN NORM)                  |  | 31-31-01            |
|                      | 11   | 9  | 10       | PROVIDES PRESS. OUTFLOW VALVE FULL OPEN                               | ENABLES AUTO 2 CABIN PRESS.                                      | 21-31-02            |
|                      | 1    | 13 | 2        | ENABLES AIR DATA CMPTR TEST   |  | 34-12-02            |
| K208<br>D1868<br>GND | 5    | 3  | 4        |   | ENABLES STALL WARNING  | 27-32-02            |
|                      | 7    | 14 | 8        | PROVIDES "ON GND" INPUT TO EICAS                                      |  |                     |
|                      | 7    | 14 | 8        | PROVIDES "ON GND" INPUT TO DFDAU                                      | PROVIDES "IN AIR" INPUT TO DFDAU                                 | 31-31-01            |
|                      | 5    | 3  | 4        | PROVIDES INPUT TO GPWS BITE   |  | 34-46-01            |
| K209<br>D626<br>AIR  | 1    | 13 | 2        | L PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | L PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN | 21-51-06            |
|                      | A2   | A3 | A1       |   | ENABLES LDG GEAR CONTROL LEVER UP                                | 32-30-01            |
| K211<br>D630<br>GND  | 7    | 14 | 8        | ENABLES AUTO SPEED BRAKE  |  | 27-62-01            |
|                      | 1    | 13 | 2        | L PACK-HI FLOW CONTROL WITH APU OR GND AIR                            |  | 21-51-01            |
| K213<br>D634<br>GND  | A2   | A3 | A1       |   | ENABLE P2/T2 PROBE HEAT - R                                      | 30-34-01            |
|                      | C2   | C3 | C1       |   | ENABLES R AOA HEAT   | 30-32-02            |
|                      | B2   | B3 | B1       | PROVIDES LO IDLE  | PROVIDES HIGH IDLE WITH LDG FLAPS                                | 73-21-03            |
|                      | D2   | D3 | D1       |   |  |                     |

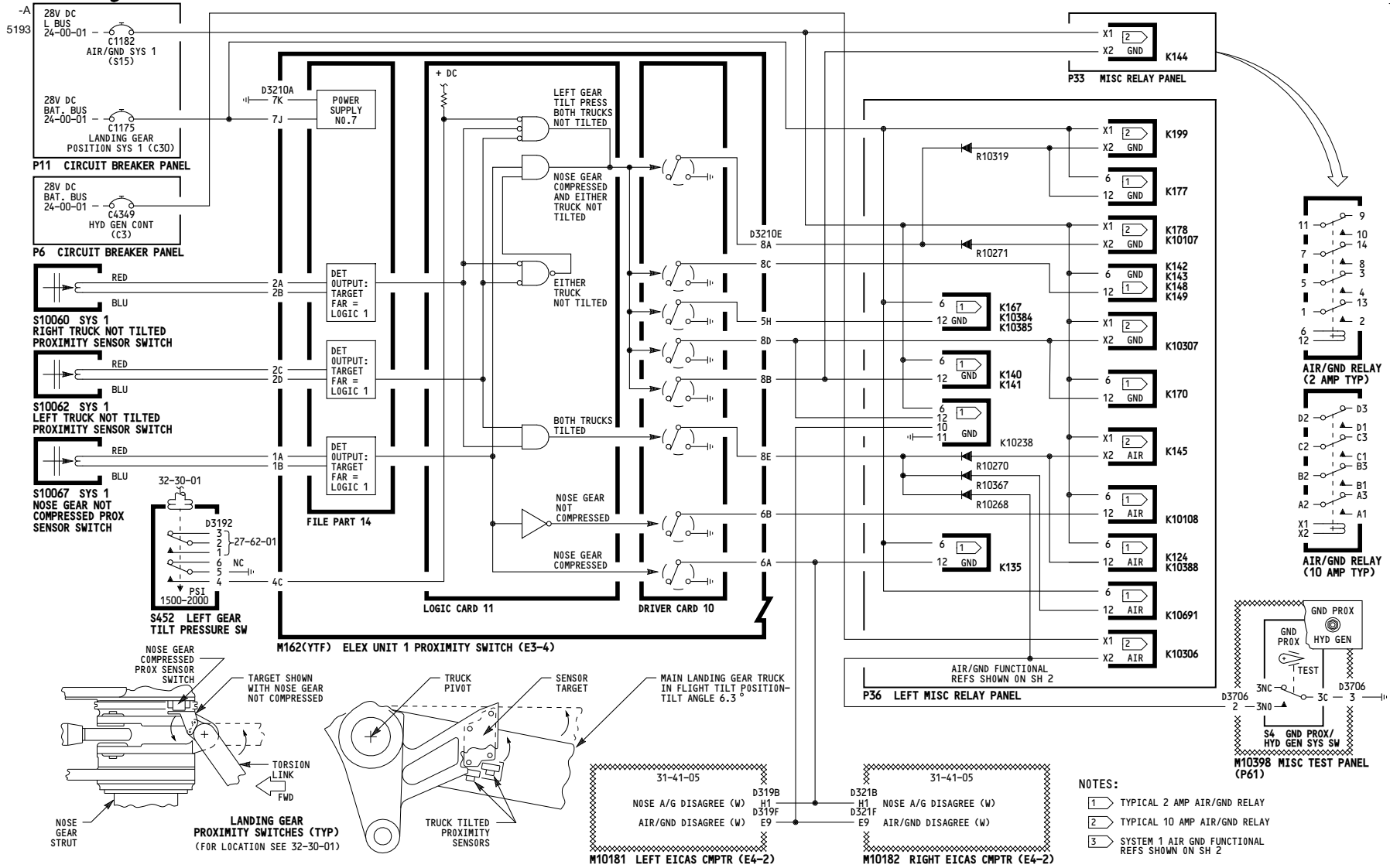
| RELAY                                       | POLE |    |    | NORMAL SYSTEM FUNCTION                                   |   | REFERENCE SCHEMATIC |
|---|------|----|----|--|---|---------------------|
|   | C    | NC | NO | ON GROUND  | IN AIR  |                     |
| K214<br>D636<br>GND                         | 11   | 9  | 10 | DRIVES COOLING DOORS FULL OPEN                           | INHIBITS R PACK TEMP CONTROL BITE                           | 21-51-04            |
|   | 7    | 14 | 8  | PROVIDES DISCRETE INPUT TO APU CONTROLLER                |   | 49-61-01            |
|   | 5    | 3  | 4  |  | PROVIDES INPUT TO R RAD ALTM, ILS,<br>VOR, DME AND ADF BITE | 34-33-02            |
|   | 1    | 13 | 2  |  | INHIBITS APU SHUTDOWN (BAT. SW OFF)                         | 49-61-01            |
| K215<br>D1872<br>GND                        | 11   | 9  | 10 | PROVIDES "ON GND" INPUT TO CSEU                          | PROVIDES "IN AIR" INPUT TO CSEU                             | 27-09-06            |
|   | 1    | 13 | 2  |  | ENABLES R STALL WARNING                                     | 27-32-02            |
| K219<br>D1870<br>AIR                        | 5    | 3  | 4  |  | INHIBITS APU GND FIRE WARNING HORN                          | 26-15-02            |
|   | 7    | 14 | 8  | ENABLES REV THRUST ISLN VALVE FAULT IND                  |   | 78-36-01            |
| K263<br>D1866<br>GND                        |      |    |    |  |   |                     |
| K10201<br>D1864<br>GND                      | 5    | 3  | 4  |  | AIR SUPPLY APU VALVE CONTROL                                | 36-11-03            |
| K10202<br>D628<br>GND                       | 7    | 14 | 8  | R PACK-HI FLOW CONTROL WITH APU OR GND AIR               |   | 21-51-02            |
| K10203<br>D632<br>AIR                       | 11   | 9  | 10 | PROVIDES INPUT TO R FUEL QTY PROCESSOR                   | PROVIDES INPUT TO R FUEL QTY PROCESSOR                      | 28-41-03            |
|   | 5    | 3  | 4  | ENABLES EXT PWR PRIORITY OVER R GCU                      |   | 24-22-02            |
| K10239<br>D2676<br>GND                      | 1    | 13 | 2  |  | ENABLES ELEC LOAD SHED RESET                                | 24-51-10            |
|   | 7    | 14 | 8  | INPUTS FLIGHT COMPLETE TO TCAS                           |   | 34-45-01            |
| K10258<br>D3118<br>AIR                      | 11   | 9  | 10 | ENABLES PWR SWITCHING FOR VIDEO<br>ENTERTAINMENT SYSTEM  |   | 23-32-01            |
|   | 7    | 14 | 8  | ENABLES AUTO. BRAKE AFTER WHEEL SPIN UP                  |   | 32-42-03            |
| K10308<br>D4090<br>GND                      | D2   | D3 | D1 | ENABLES CAPT AND L AUX P/S LO HT                         |   | 30-31-01            |
|   | C2   | C3 | C1 | ENABLES P2/T2 "ON GND" PROBE HEAT IND -<br>R ENG RUNNING |   | 30-34-01            |
|   | B2   | B3 | B1 |  | ENABLES L AUX P/S FAULT IND                                 | 30-31-01            |
| K10309<br>D4092<br>GND                      | A2   | A3 | A1 |  | ENABLES CAPT P/S FAULT IND                                  | 30-31-01            |
|   | D2   | D3 | D1 |  | ENABLES F/O P/S FAULT IND                                   | 30-31-02            |
|   | C2   | C3 | C1 |  | ENABLES R AUX P/S FAULT IND                                 | 30-31-02            |
|   | B2   | B3 | B1 | ENABLES F/O AND R AUX P/S LO HT                          |   | 30-31-02            |
| K10386<br>D4674<br>NOT<br>TILTED            | A2   | A3 | A1 | ENABLES F/O AND R AUX P/S LO HT                          | ENABLES F/O P/S HI HT                                       | 30-31-02            |
|   | 7    | 14 | 8  | PROVIDES "ON GND"<br>INPUT TO CSEU<br>(MULTI-FUNCTIONS)  | PROVIDES "IN AIR"<br>INPUT TO CSEU<br>(MULTI-FUNCTIONS)     | 27-09-06            |
|   | 5    | 3  | 4  |  |   | 27-09-06            |
| 1   | 13   | 2  |    |  | 27-09-06  |                     |
| K10387<br>D4676<br>NOT<br>TILTED            | 1    | 13 | 2  | PROVIDES "ON GND" INPUT TO CSEU                          | PROVIDES "IN AIR" INPUT TO CSEU                             | 27-09-06            |
|   |      |    |    |  |   |                     |
| K10293<br>D4046<br>R TRUCK<br>NOT<br>TILTED | 1    | 13 | 2  |  | PROVIDES R TRUCK TILT INPUT TO DFDAU                        | 31-31-01            |
| K10294<br>D4122<br>L TRUCK<br>NOT<br>TILTED |      |    |    |  |   |                     |
|   | 1    | 13 | 2  |  | PROVIDES L TRUCK TILT INPUT TO DFDAU                        | 31-31-01            |

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RELAYS**

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**LANDING GEAR AIR/GROUND RELAYS**

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| RELAY                | POLE      |    |          | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC  |          |
|----------------------|-----------|----|----------|------------------------|---|--|----------|
|                      | ENERGIZED | C  | NC       | NO                     |   |  |          |
| K124<br>D582<br>AIR  | 5         | 3  | 4        |                        | ACARS INPUT   | 23-22-01   |          |
|                      | 1         | 13 | 2        |                        | ENABLES L RECIRC FAN  | 21-25-01   |          |
|                      | 7         | 14 | 8        |                        | INHIBITS EQUIP COOL. GND HORN   | 21-58-01   |          |
| K135<br>D1780<br>GND | 11        | 9  | 10       |                        | PROVIDES "ON GND" INPUT TO CSEU                                       | PROVIDES "IN AIR" INPUT TO CSEU                                  | 27-09-06 |
|                      | 7         | 14 | 8        |                        | ENABLES L STALL WARNING   |  | 27-32-01 |
|                      | 5         | 3  | 4        |                        | ENABLES VOICE RCDR ERASE (BRAKES SET)                                 |  | 23-71-01 |
|                      | 1         | 13 | 2        |                        | INHIBITS TAKE OFF WARNING   |  | 31-51-05 |
| K140<br>D584<br>GND  | 11        | 9  | 10       |                        | ENABLES EICAS MAINT FUNCTION  |  | 31-41-01 |
|                      | 5         | 3  | 4        |                        | DRIVES COOLING DOORS FULL OPEN  | INHIBITS L PACK TEMP CONTROL BITE                                | 21-51-03 |
| K141<br>D586<br>GND  | 7         | 14 | 8        |                        | ENABLES P3-3 MD&T AND P1-3 MD&T                                       |  | 33-16-02 |
|                      | 1         | 13 | 2        |                        |   | INHIBITS ZONE TEMP CONT BITE                                     | 21-61-01 |
| K142<br>D588<br>GND  | 11        | 9  | 10       | }                      | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  | 22-41-01 |
|                      | 7         | 14 | 8        |                        |   |  | 22-41-01 |
|                      | 5         | 3  | 4        | }                      | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   | 22-14-01 |
| 1                    | 13        | 2  | 22-14-01 |                        |   |  |          |
| K143<br>D590<br>GND  | 11        | 9  | 10       |                        | PROVIDES INPUT TO L ATC TRANSPONDER BITE MEM                          |  | 34-53-01 |
|                      | 7         | 14 | 8        |                        | PROVIDES INPUT TO C RAD ALTM AND ILS BITE                             |  | 34-33-03 |
|                      | 5         | 3  | 4        |                        | ARMS TAT PROBE FAULT IND DURING TEST                                  | ARMS TAT PROBE HEAT FAULT IND                                    | 30-33-01 |
|                      | 1         | 13 | 2        |                        | PROVIDES "ON GND" INPUT TO TMC  |  | 22-32-01 |
| K144<br>D592<br>GND  | C2        | C3 | C1       |                        | INHIBITS A0A HEAT (ENGS RUNNING)                                      | ENABLES L A0A HEAT   | 30-32-01 |
|                      | D2        | D3 | D1       |                        |   | ENABLES CAPT FOOT HEATER   | 21-45-01 |
| K145<br>D594<br>AIR  |           |    |          |                        |   |  |          |
|                      | B2        | B3 | B1       |                        | ENABLES AUTO APU FIRE EXT (ENGS RUNNING)                              |  | 26-22-01 |
| K148<br>D600<br>GND  | 11        | 9  | 10       |                        | ENABLES AIR DATA CMPTR TEST   |  | 34-12-01 |
|                      | 7         | 14 | 8        |                        | INHIBITS TAKEOFF WARNING  |  | 31-51-03 |
|                      | 1         | 13 | 2        |                        | INHIBITS EQUIP COOL TEST FUNCTIONS                                    |  | 21-58-03 |
| K149<br>D602<br>GND  | 11        | 9  | 10       |                        | ENABLES STALL WARN SELF TEST  |  | 27-32-01 |
|                      | 5         | 3  | 4        |                        | ENABLES ELEC LOAD SHED  |  | 24-51-15 |
|                      | 1         | 13 | 2        |                        | ENABLES L FWD FUEL BOOST PUMP AUTO OPERATION WITH SWITCH OFF (APU ON) |  | 28-25-01 |
| K167<br>D1782<br>GND | 7         | 14 | 8        |                        |   | PROVIDES INPUT TO L RAD ALTM, ILS, VOR, DME AND ADF BITE         | 34-33-01 |
|                      | 5         | 3  | 4        |                        | ENABLES AUTO SPEEDBRAKE   |  | 27-62-01 |
|                      | 1         | 13 | 2        |                        | R PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | R PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN | 21-51-05 |
| K10691<br>D6914      | 1         | 13 | 2        |                        | PROVIDES INPUT TO L FUEL QTY PROCESSOR                                | PROVIDES INPUT TO L FUEL QTY PROCESSOR                           | 28-41-01 |

| RELAY                  | POLE      |    |          | NORMAL SYSTEM FUNCTION |   | REFERENCE SCHEMATIC                              |          |
|------------------------|-----------|----|----------|------------------------|---|--|----------|
|                        | ENERGIZED | C  | NC       | NO                     |   |  |          |
| K170<br>D604<br>GND    | 11        | 9  | 10       |                        | ENABLES MD&T FOR P3-1 AND P3-3                    |  | 33-16-02 |
|                        |           |    |          |                        |   |  |          |
| K177<br>D606<br>GND    | 7         | 14 | 8        |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
|                        | 11        | 9  | 10       |                        | ENABLES MD&T FOR P3-1 AND P3-3                    |  | 33-16-02 |
|                        | 5         | 3  | 4        |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
| K178<br>D608<br>GND    | D2        | D3 | D1       |                        |   | ENABLES R AUX P/S FAULT IND                      | 30-31-02 |
|                        | C2        | C3 | C1       |                        |   | ENABLES F/O P/S FAULT IND                        | 30-31-02 |
|                        | B2        | B3 | B1       |                        | ENABLES F/O AND R AUX P/S LO HT                   |  | 30-31-02 |
|                        | A2        | A3 | A1       |                        |   | PROVIDE P1 PROBE HEAT IND                        | 30-34-01 |
| K199<br>D598<br>GND    | D2        | D3 | D1       |                        | ALLOWS C RUD/ELEV SOV TO CLOSE                    |  | 29-00-04 |
|                        | C2        | C3 | C1       |                        | ENABLES THRUST REVERSERS                          |  | 78-34-01 |
|                        | B2        | B3 | B1       |                        | ENGINE CONTROL - LOW IDLE                         | ENABLES HIGH IDLE WITH LANDING FLAPS             | 73-21-03 |
|                        | A2        | A3 | A1       |                        | ENABLES THRUST REVERSERS OPERATION                | INHIBIT THRUST REVERSERS                         | 78-34-01 |
| K10107<br>D596<br>GND  | D2        | D3 | D1       |                        | ALLOWS L RUD/ELEV SOV TO CLOSE                    |  | 29-00-02 |
|                        | C2        | C3 | C1       |                        | ENABLES F/O & R AUX P/S LO HT                     |  | 30-31-02 |
|                        | A2        | A3 | A1       |                        |   | ENABLE P1 PROBE HEAT                             | 30-34-01 |
| K10108<br>D1784<br>AIR | 11        | 9  | 10       |                        | PROVIDES INPUT TO BUS PWR CONTROL UNIT            | PROVIDES INPUT TO BUS POWER CONTROL UNIT         | 24-22-08 |
|                        | 7         | 14 | 8        |                        |   | INHIBITS AURAL WARNING DURING TAKE OFF           | 31-51-07 |
| K10238<br>D2754<br>GND | 1         | 13 | 2        |                        | ENABLES MASTER FIRE WRN ON TAKE OFF               | INHIBITS MASTER FIRE WARNING DURING TAKE OFF     | 31-51-02 |
|                        | 11        | 9  | 10       |                        | PROVIDES "ON GND" INPUT TO EICAS                  |  | 32-09-02 |
|                        | 7         | 14 | 8        |                        | PROVIDES "ON GND" INPUT TO L FMC                  | PROVIDES "IN AIR" INPUT TO L FMC                 | 34-61-07 |
| K10307<br>D4184<br>GND | 5         | 3  | 4        |                        | INPUT TO CABIN PRESSURE CONTROL                   |  | 21-32-01 |
|                        |           |    |          |                        |   |  |          |
|                        | D2        | D3 | D1       |                        |   | ENABLES CAPT P/S FAULT IND                       | 30-31-01 |
| K10384<br>D4706<br>GND | C2        | C3 | C1       |                        |   | ENABLES L AUX P/S FAULT IND                      | 30-31-01 |
|                        | B2        | B3 | B1       |                        | ENABLES CAPT AND L AUX P/S LOW HT                 | ENABLES CAPT P/S HI HT                           | 30-31-01 |
|                        | A2        | A3 | A1       |                        | ENABLES CAPT AND L AUX P/S LO HT                  |  | 30-31-01 |
| K10385<br>D4708<br>GND | 5         | 3  | 4        |                        | INHIBITS RAM AIR TURBINE DEPLOYMENT               |  | 29-00-04 |
|                        | 1         | 13 | 2        |                        | PROVIDES "ON GND" INPUT TO CSEU                   | PROVIDES "IN AIR" INPUT TO CSEU                  | 27-09-06 |
|                        | 7         | 14 | 8        | }                      | PROVIDES "ON GND" INPUT TO CSEU (MULTI FUNCTIONS) | PROVIDES "IN AIR" INPUT TO CSEU (MULTI FUNCTION) | 27-09-06 |
| 5                      | 3         | 4  | 27-09-06 |                        |   |  |          |
| K10388<br>D4510<br>AIR | 1         | 13 | 2        |                        |   |  | 27-09-06 |
|                        | 11        | 9  | 10       |                        | PROVIDES INPUT TO L VHF BITE                      |  | 23-12-01 |
|                        | 5         | 3  | 4        |                        | PROVIDES "ON GND" INPUT TO RUD/ELEV PCU MONITOR   | PROVIDES "IN AIR" INPUT TO RUD/ELEV PCU MONITOR  | 27-23-01 |
| K10306<br>D4182<br>AIR | 1         | 13 | 2        |                        | ENABLES AUTO BRAKES AFTER WHEEL SPIN UP           |  | 32-42-03 |
|                        | A2        | A3 | A1       |                        |   | ENABLES AUX POWER                                | 24-25-01 |

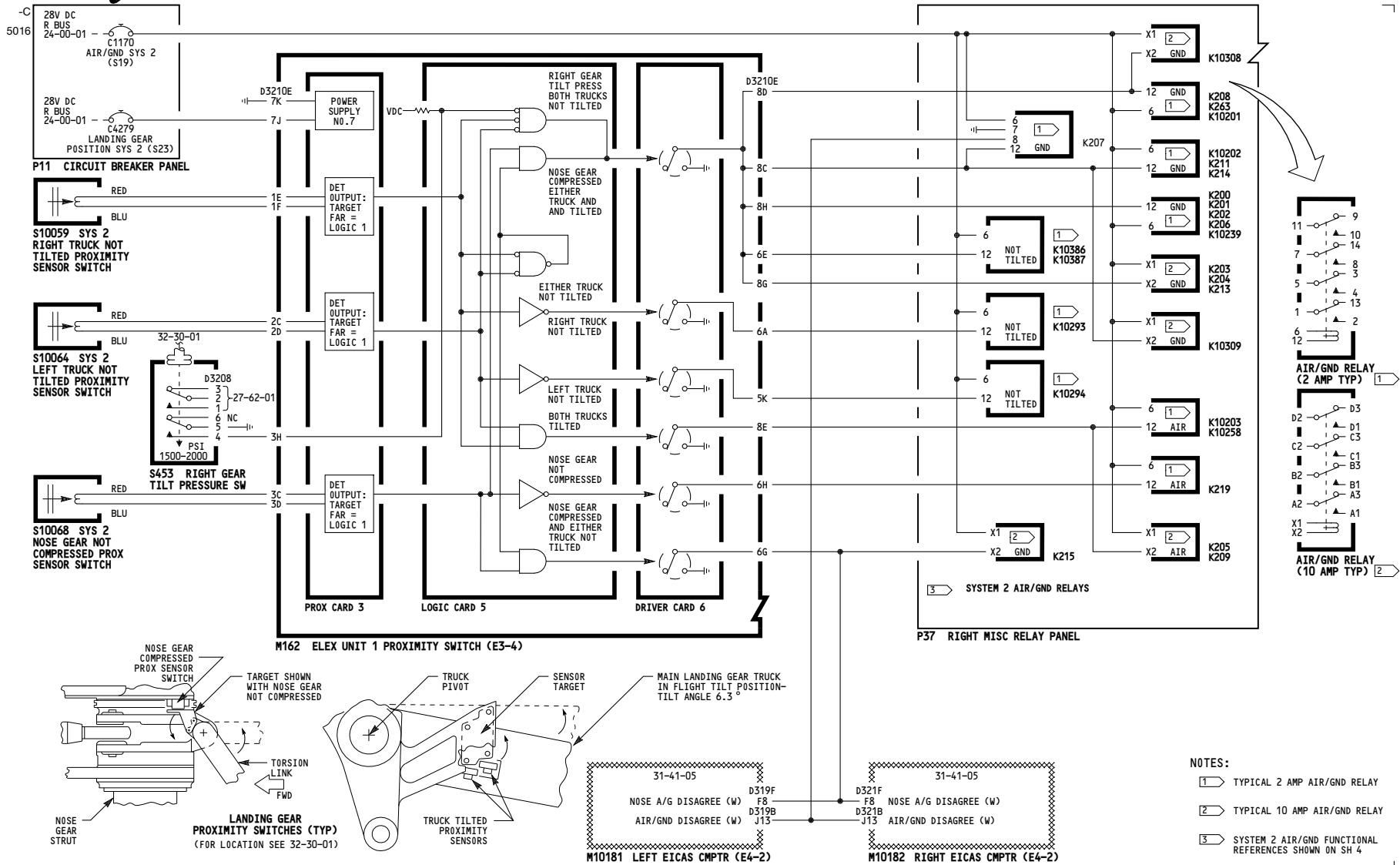
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**LANDING GEAR AIR/GROUND RELAYS**

D280N032S

**32-09-02**

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**LANDING GEAR AIR/GROUND RELAYS**

D280N032S

**32-09-02**



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| RELAY                | POLE |    |          | NORMAL SYSTEM FUNCTION  |  | REFERENCE SCHEMATIC |
|----------------------|------|----|----------|---|--|---------------------|
|                      | C    | NC | NO       | ON GROUND   | IN AIR   |                     |
| K200<br>D610<br>GND  | 7    | 14 | 8        | PROVIDES "ON GND" INPUT TO R FMC                                      | PROVIDES "IN AIR" INPUT TO R FMC                                 | 34-61-07            |
|                      |      |    |          |   |  |                     |
|                      |      |    |          |   |  |                     |
| K201<br>D612<br>GND  | 11   | 9  | 10       |   | AFT EQUIP EXHAUST FAN SWITCHING                                  | 21-58-04            |
|                      | 7    | 14 | 8        |   | PROVIDES INPUT TO R ATC TRANSPONDER BITE MEM                     | 34-53-02            |
|                      |      |    |          |   |  | 21-58-04            |
| K202<br>D614<br>GND  | 1    | 13 | 2        |   | PROVIDES INPUT TO R VHF BITE                                     | 23-12-02            |
|                      | 11   | 9  | 10       | PROVIDES "ON GND" INPUT TO MCDP                                       | PROVIDES "IN AIR" INPUT TO MCDP                                  | 22-41-01            |
|                      | 7    | 14 | 8        |   |  | 22-41-01            |
|                      | 5    | 3  | 4        | PROVIDES "ON GND" INPUT TO FCC  | PROVIDES "IN AIR" INPUT TO FCC                                   | 22-14-01            |
| 1                    | 13   | 2  | 22-14-01 |   |  |                     |
| K203<br>D616<br>GND  | C2   | C3 | C1       | ALLOWS R SYS RUD/ELEV HYD SOV TO CLOSE                                |  | 29-00-03            |
|                      | B2   | B3 | B1       | INHIBITS TAT PROBE HEAT EXC DURING TEST                               | ENABLES TAT PROBE HEAT   | 30-33-01            |
|                      | A2   | A3 | A1       | ENABLES THRUST REVERSERS  | INHIBITS THRUST REVERSERS OPERATION                              | 78-34-02            |
| K204<br>D618<br>GND  | D2   | D3 | D1       |   |  |                     |
|                      | C2   | C3 | C1       |   |  |                     |
|                      | B2   | B3 | B1       | ENABLES CAPT & L AUX P/S LO HT  |  | 30-31-01            |
|                      | A2   | A3 | A1       | ENABLES WING ANTI-ICE TEST  | ENABLES WING ANTI-ICE  | 30-11-01            |
| K205<br>D620<br>AIR  | C2   | C3 | C1       | ENABLES DRAIN MAST LO HEAT  | ENABLES DRAIN MAST HI HEAT                                       | 30-71-01            |
|                      | B2   | B3 | B1       |   | ENABLES FIRST OFFICERS FOOT HEATER                               | 21-45-01            |
| K206<br>D622<br>GND  | 1    | 13 | 2        |   | SWITCHES GND POWER   |                     |
|                      | 11   | 9  | 10       | INHIBITS DFDR OPERATION<br>(ENG RUNNING, SW IN NORM)                  |  | 31-31-01            |
| K207<br>D624<br>GND  | 11   | 9  | 10       | PROVIDES PRESS. OUTFLOW VALVE FULL OPEN                               | ENABLES AUTO 2 CABIN PRESS.                                      | 21-31-02            |
|                      | 1    | 13 | 2        | ENABLES AIR DATA CMPTR TEST   |  | 34-12-02            |
|                      | 5    | 3  | 4        |   | ENABLES STALL WARNING  | 27-32-02            |
|                      | 7    | 14 | 8        | PROVIDES "ON GND" INPUT TO EICAS                                      |  |                     |
| K208<br>D1868<br>GND | 7    | 14 | 8        | PROVIDES "ON GND" INPUT TO DFDAU                                      | PROVIDES "IN AIR" INPUT TO DFDAU                                 | 31-31-01            |
|                      | 5    | 3  | 4        |   | PROVIDES INPUT TO GPWS BITE                                      | 34-46-01            |
|                      | 1    | 13 | 2        | L PACK OFF CONFIG - INLET DOOR FULL OPEN<br>PACK CONTROL VALVE CLOSED | L PACK OFF CONFIG - INLET DOOR CLOSED<br>PACK CONTROL VALVE OPEN | 21-51-06            |
| K209<br>D626<br>AIR  |      |    |          |   |  |                     |
|                      | A2   | A3 | A1       |   | ENABLES LDG GEAR CONTROL LEVER UP                                | 32-30-01            |
| K211<br>D630<br>GND  | 7    | 14 | 8        | ENABLES AUTO SPEED BRAKE  |  | 27-62-01            |
|                      | 1    | 13 | 2        | L PACK-HI FLOW CONTROL WITH APU OR GND AIR                            |  | 21-51-01            |
| K213<br>D634<br>GND  | A2   | A3 | A1       |   | ENABLE P2/T2 PROBE HEAT - R                                      | 30-34-01            |
|                      | C2   | C3 | C1       |   | ENABLES R AOA HEAT   | 30-32-02            |
|                      | B2   | B3 | B1       | PROVIDES LO IDLE  | PROVIDES HIGH IDLE WITH LDG FLAPS                                | 73-21-03            |
|                      | D2   | D3 | D1       |   |  |                     |

| RELAY                                       | POLE |    |    | NORMAL SYSTEM FUNCTION                                   |   | REFERENCE SCHEMATIC |
|---|------|----|----|--|---|---------------------|
|   | C    | NC | NO | ON GROUND  | IN AIR  |                     |
| K214<br>D636<br>GND                         | 11   | 9  | 10 | DRIVES COOLING DOORS FULL OPEN                           | INHIBITS R PACK TEMP CONTROL BITE                           | 21-51-04            |
|   | 7    | 14 | 8  | PROVIDES DISCRETE INPUT TO APU CONTROLLER                |   | 49-61-01            |
|   | 5    | 3  | 4  |  | PROVIDES INPUT TO R RAD ALTM, ILS,<br>VOR, DME AND ADF BITE | 34-33-02            |
|   | 1    | 13 | 2  |  | INHIBITS APU SHUTDOWN (BAT. SW OFF)                         | 49-61-01            |
| K215<br>D1872<br>GND                        | 11   | 9  | 10 | PROVIDES "ON GND" INPUT TO CSEU                          | PROVIDES "IN AIR" INPUT TO CSEU                             | 27-09-06            |
|   | 1    | 13 | 2  |  | ENABLES R STALL WARNING                                     | 27-32-02            |
| K219<br>D1870<br>AIR                        | 5    | 3  | 4  |  | INHIBITS APU GND FIRE WARNING HORN                          | 26-15-02            |
|   | 7    | 14 | 8  | ENABLES REV THRUST ISLN VALVE FAULT IND                  |   | 78-36-01            |
| K263<br>D1866<br>GND                        |      |    |    |  |   |                     |
| K10201<br>D1864<br>GND                      | 5    | 3  | 4  |  | AIR SUPPLY APU VALVE CONTROL                                | 36-11-03            |
|   | 7    | 14 | 8  | R PACK-HI FLOW CONTROL WITH APU OR GND AIR               |   | 21-51-02            |
| K10203<br>D632<br>AIR                       | 11   | 9  | 10 | PROVIDES INPUT TO R FUEL QTY PROCESSOR                   | PROVIDES INPUT TO R FUEL QTY PROCESSOR                      | 28-41-03            |
|   | 5    | 3  | 4  | ENABLES EXT PWR PRIORITY OVER R GCU                      |   | 24-22-02            |
|   | 1    | 13 | 2  |  | ENABLES ELEC LOAD SHED RESET                                | 24-51-10            |
| K10239<br>D2676<br>GND                      | 7    | 14 | 8  | INPUTS FLIGHT COMPLETE TO TCAS                           |   | 34-45-01            |
|   | 11   | 9  | 10 | ENABLES PWR SWITCHING FOR VIDEO<br>ENTERTAINMENT SYSTEM  |   | 23-32-01            |
| K10258<br>D3118<br>AIR                      | 7    | 14 | 8  | ENABLES AUTO. BRAKE AFTER WHEEL SPIN UP                  |   | 32-42-03            |
|   |      |    |    |  |   |                     |
| K10308<br>D4090<br>GND                      | D2   | D3 | D1 | ENABLES CAPT AND L AUX P/S LO HT                         |   | 30-31-01            |
|   | C2   | C3 | C1 | ENABLES P2/T2 "ON GND" PROBE HEAT IND -<br>R ENG RUNNING |   | 30-34-01            |
|   | B2   | B3 | B1 |  | ENABLES L AUX P/S FAULT IND                                 | 30-31-01            |
|   | A2   | A3 | A1 |  | ENABLES CAPT P/S FAULT IND                                  | 30-31-01            |
| K10309<br>D4092<br>GND                      | D2   | D3 | D1 |  | ENABLES F/O P/S FAULT IND                                   | 30-31-02            |
|   | C2   | C3 | C1 |  | ENABLES R AUX P/S FAULT IND                                 | 30-31-02            |
|   | B2   | B3 | B1 | ENABLES F/O AND R AUX P/S LO HT                          |   | 30-31-02            |
|   | A2   | A3 | A1 | ENABLES F/O AND R AUX P/S LO HT                          | ENABLES F/O P/S HI HT                                       | 30-31-02            |
| K10386<br>D4674<br>NOT<br>TILTED            | 7    | 14 | 8  | PROVIDES "ON GND"<br>INPUT TO CSEU<br>(MULTI-FUNCTIONS)  | PROVIDES "IN AIR"<br>INPUT TO CSEU<br>(MULTI-FUNCTIONS)     | 27-09-06            |
|   | 5    | 3  | 4  |  |   | 27-09-06            |
|   | 1    | 13 | 2  |  |   | 27-09-06            |
| K10387<br>D4676<br>NOT<br>TILTED            | 1    | 13 | 2  | PROVIDES "ON GND" INPUT TO CSEU                          | PROVIDES "IN AIR" INPUT TO CSEU                             | 27-09-06            |
|   |      |    |    |  |   |                     |
| K10293<br>D4046<br>R TRUCK<br>NOT<br>TILTED | 1    | 13 | 2  |  | PROVIDES R TRUCK TILT INPUT TO DFDAU                        | 31-31-01            |
|   |      |    |    |  |   |                     |
| K10294<br>D4122<br>L TRUCK<br>NOT<br>TILTED | 1    | 13 | 2  |  | PROVIDES L TRUCK TILT INPUT TO DFDAU                        | 31-31-01            |
|   |      |    |    |  |   |                     |

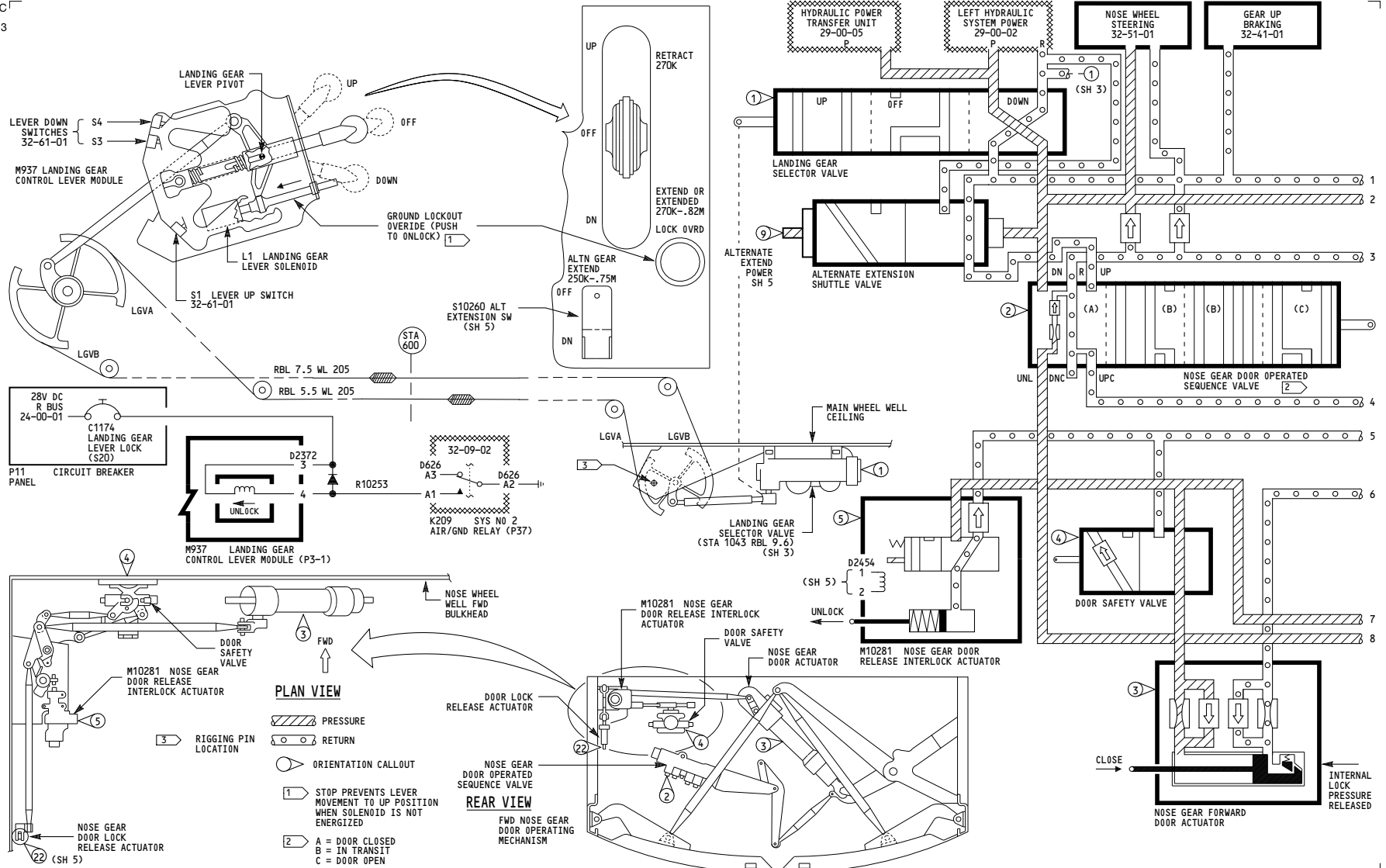
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LANDING GEAR AIR/GROUND RELAYS

D280N032S

32-09-02

5013



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| 001-099   | <b>LANDING GEAR EXTENSION AND RETRACTION</b> |
| D280N032S |  |

**32-30-01**





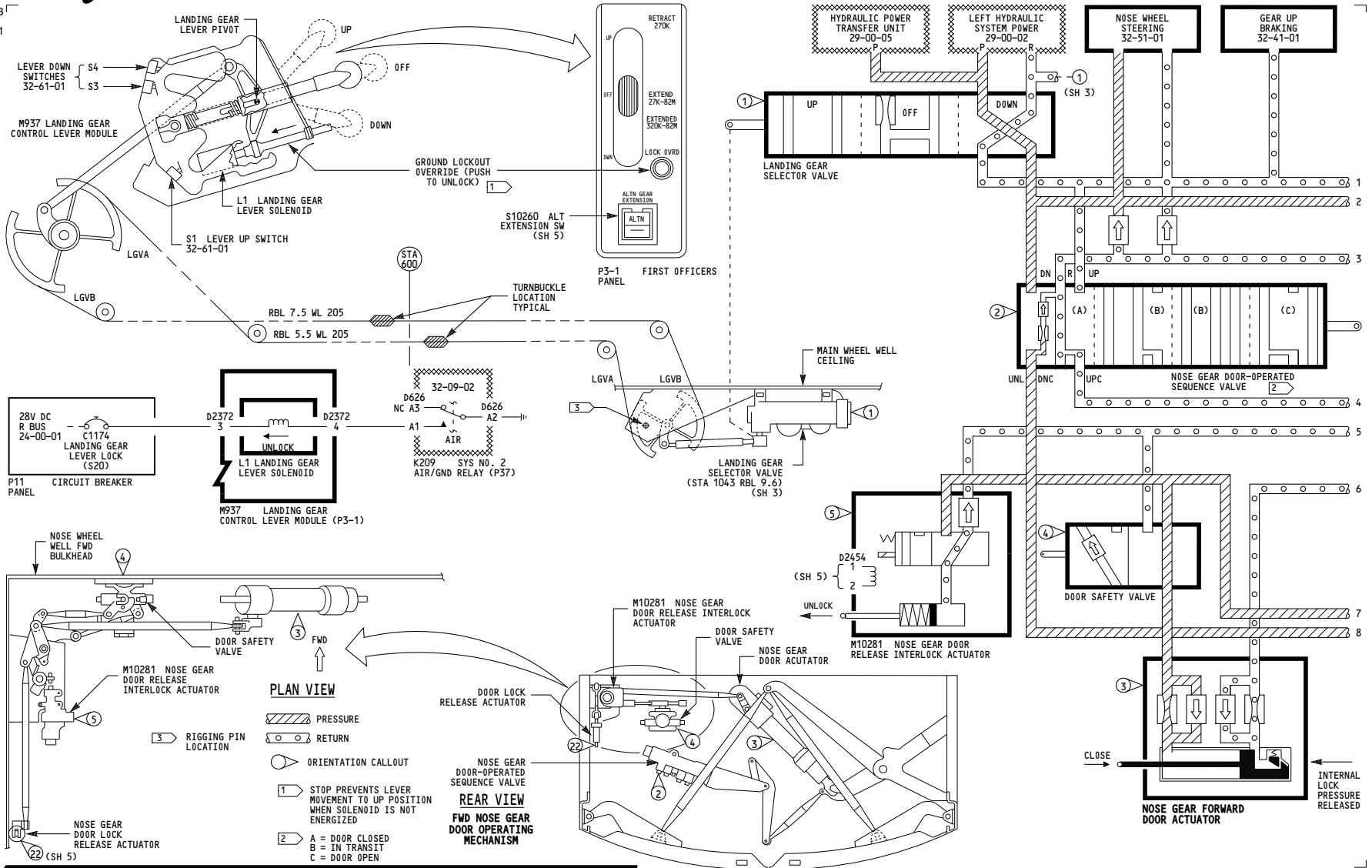






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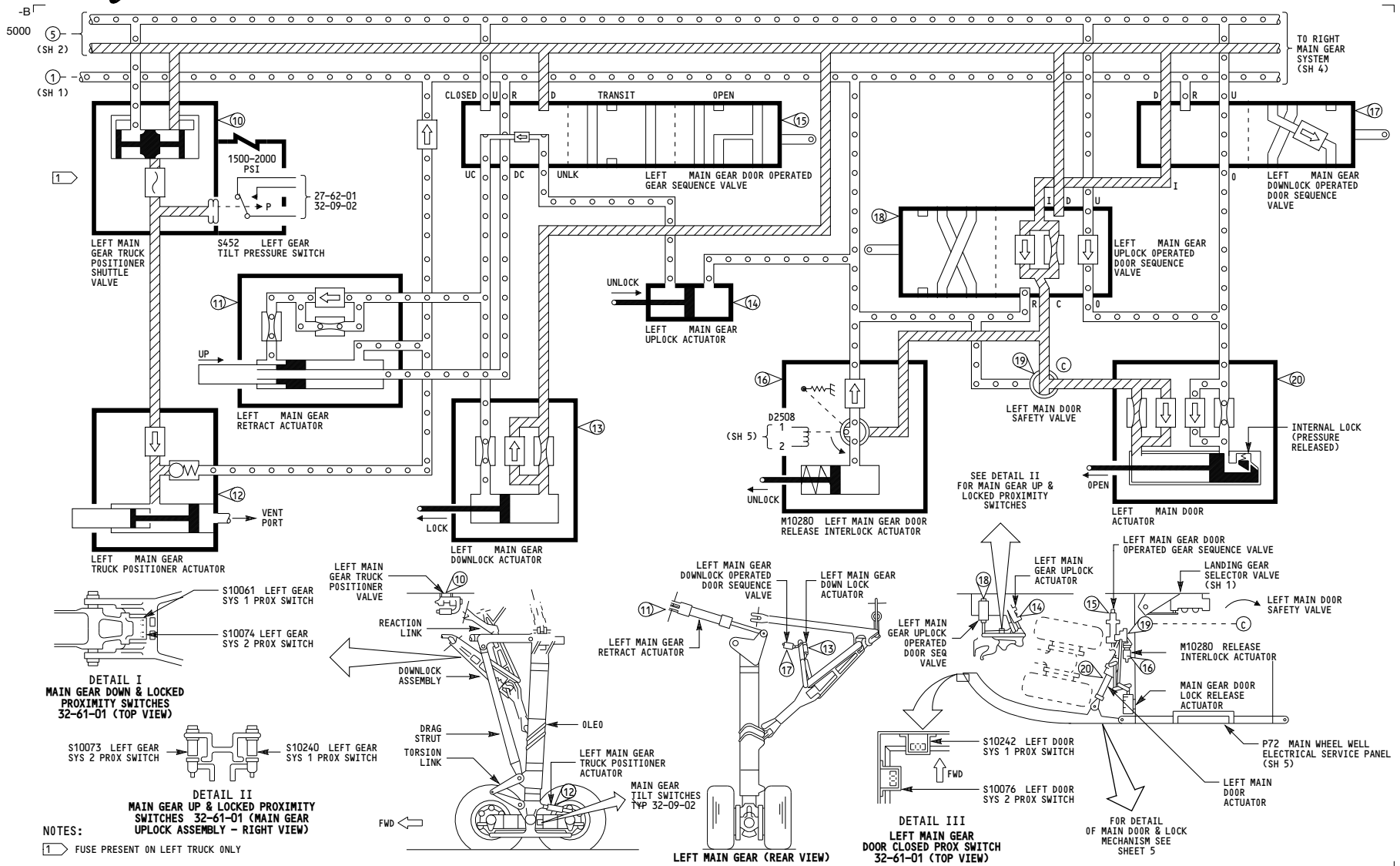
115-199

**LANDING GEAR EXTENSION AND RETRACTION**

D280N032S

**32-30-01**



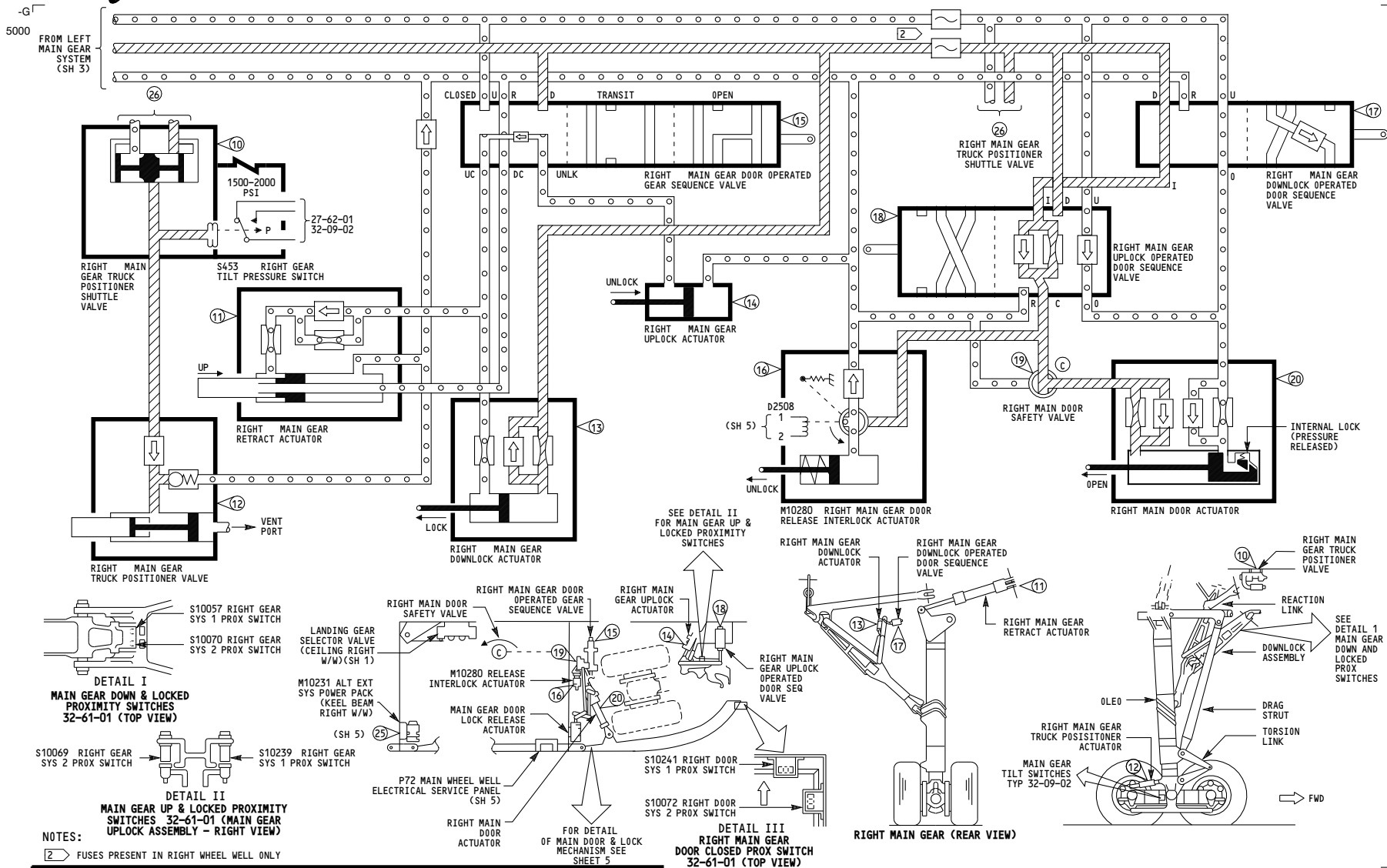


115-199

**LANDING GEAR EXTENSION AND RETRACTION**

D280N032S

**32-30-01**



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**LANDING GEAR EXTENSION AND RETRACTION**

D280N032S

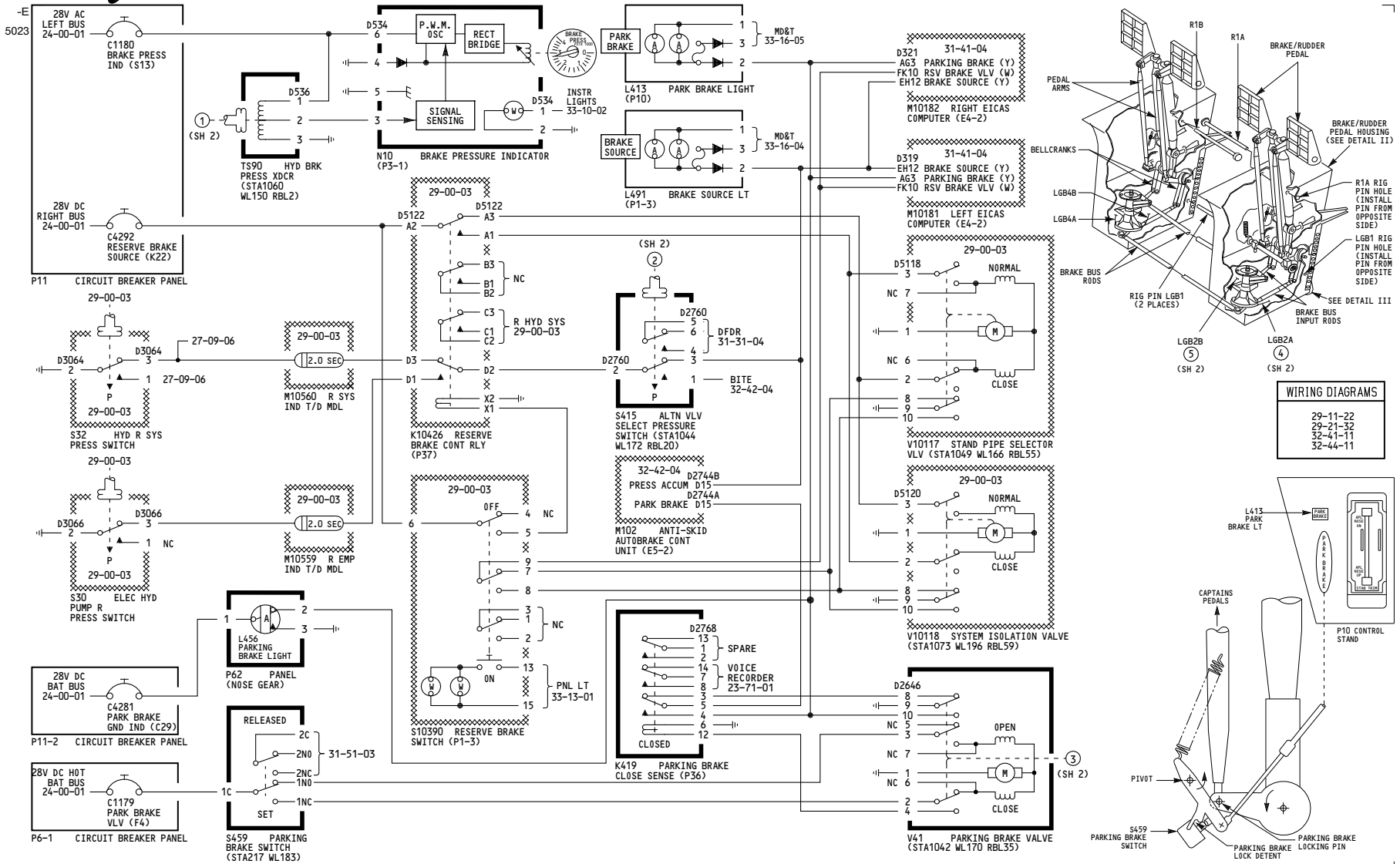
**32-30-01**

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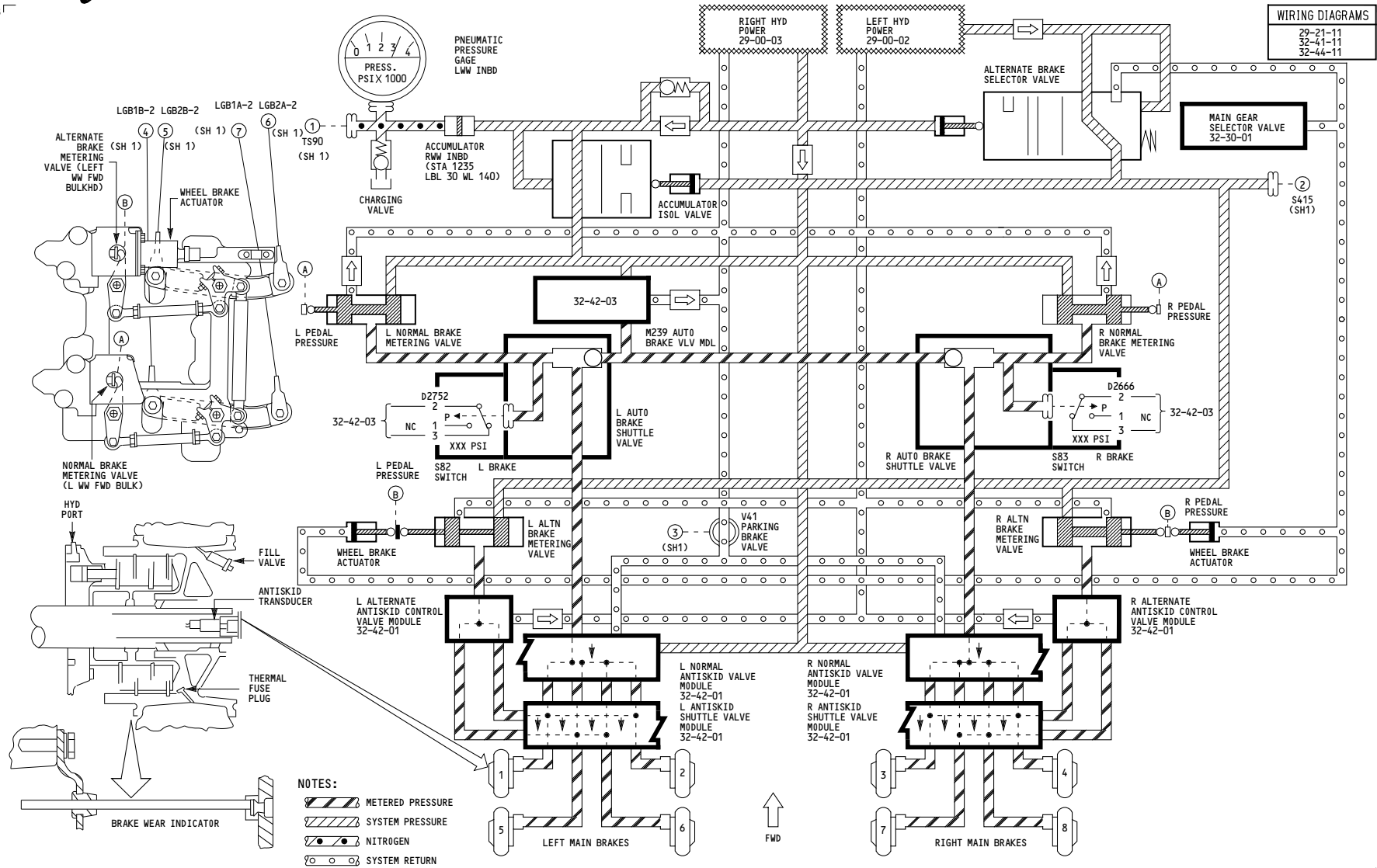
**WIRING DIAGRAMS**

|          |
|----------|
| 29-11-22 |
| 29-21-32 |
| 32-41-11 |
| 32-44-11 |

|           |                     |
|-----------|---------------------|
| 001-099   | <b>BRAKE SYSTEM</b> |
| D280N032S |                     |

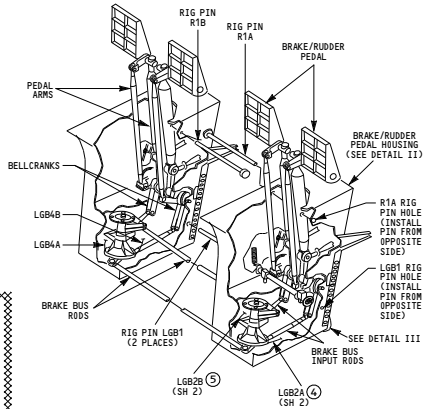
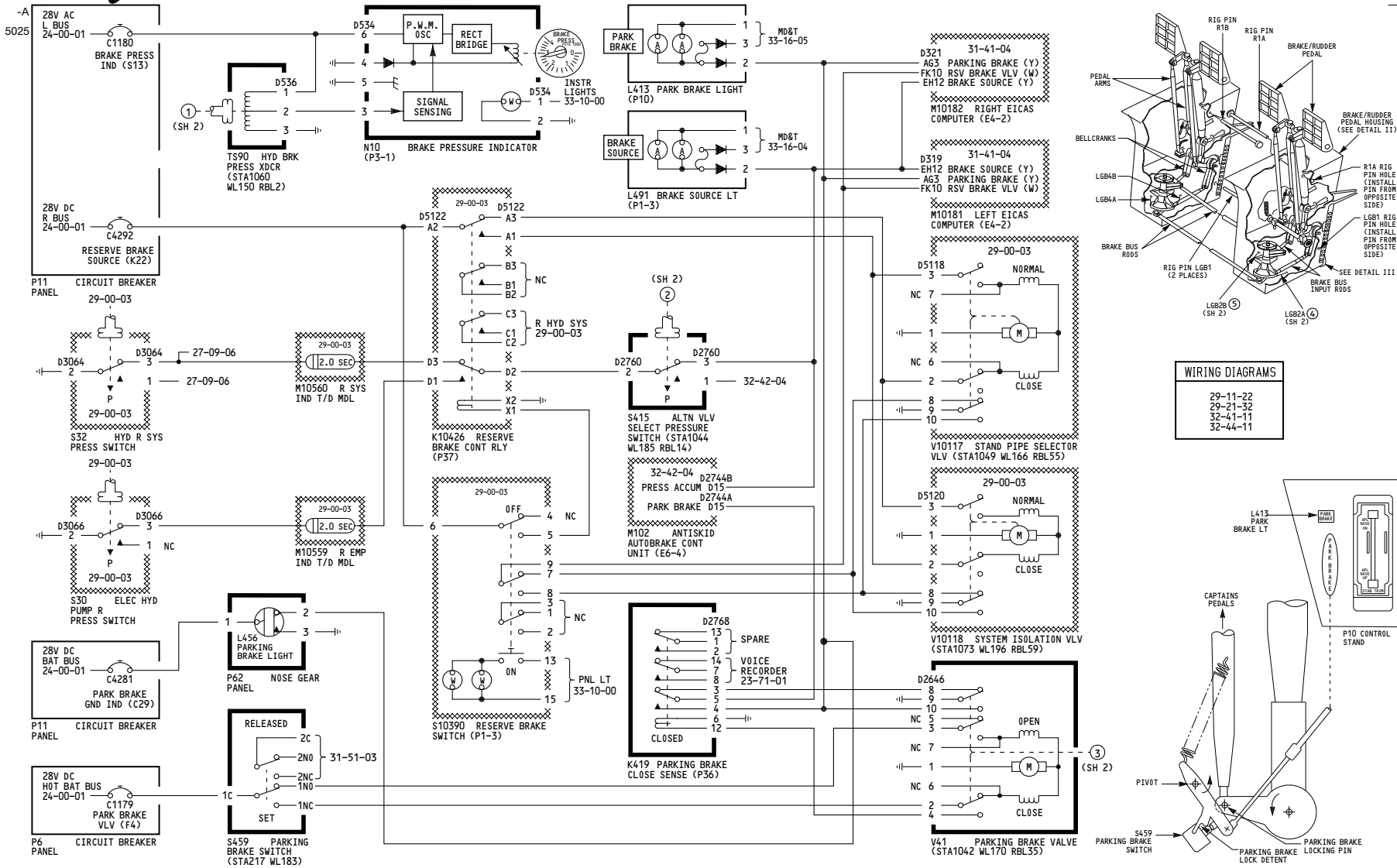
**32-41-01**

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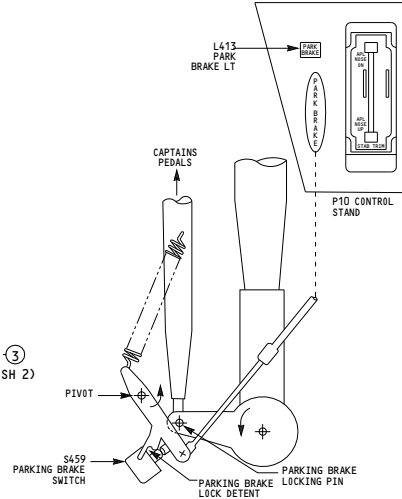
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| 001-099 | <p><b>BRAKE SYSTEM</b></p> <p>D280N032S</p> |
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**32-41-01**



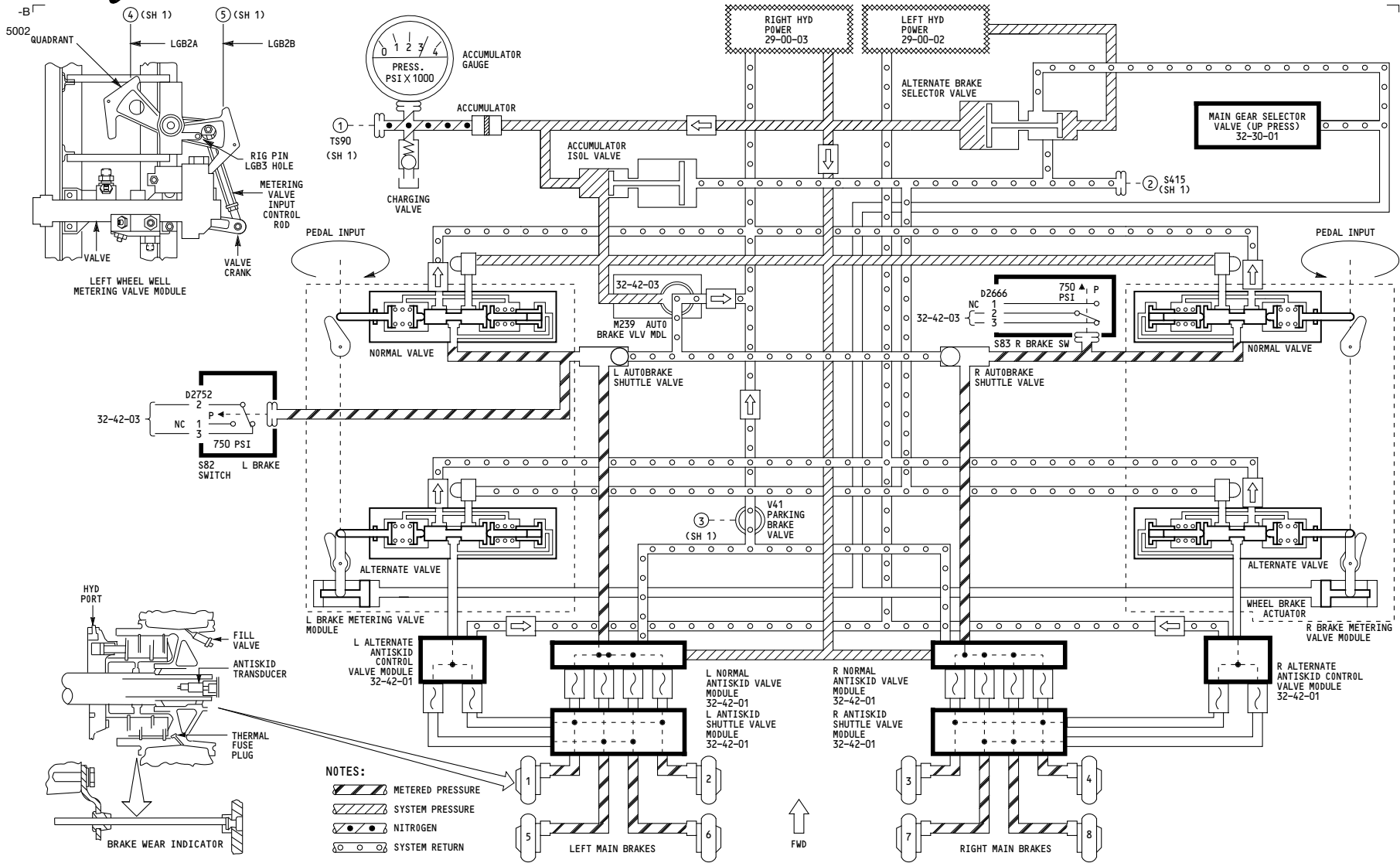
**WIRING DIAGRAMS**

|          |
|----------|
| 29-11-22 |
| 29-21-32 |
| 32-41-11 |
| 32-44-11 |



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| 115-199   | <b>BRAKE SYSTEM</b> |
| D280N032S |                     |

**32-41-01**



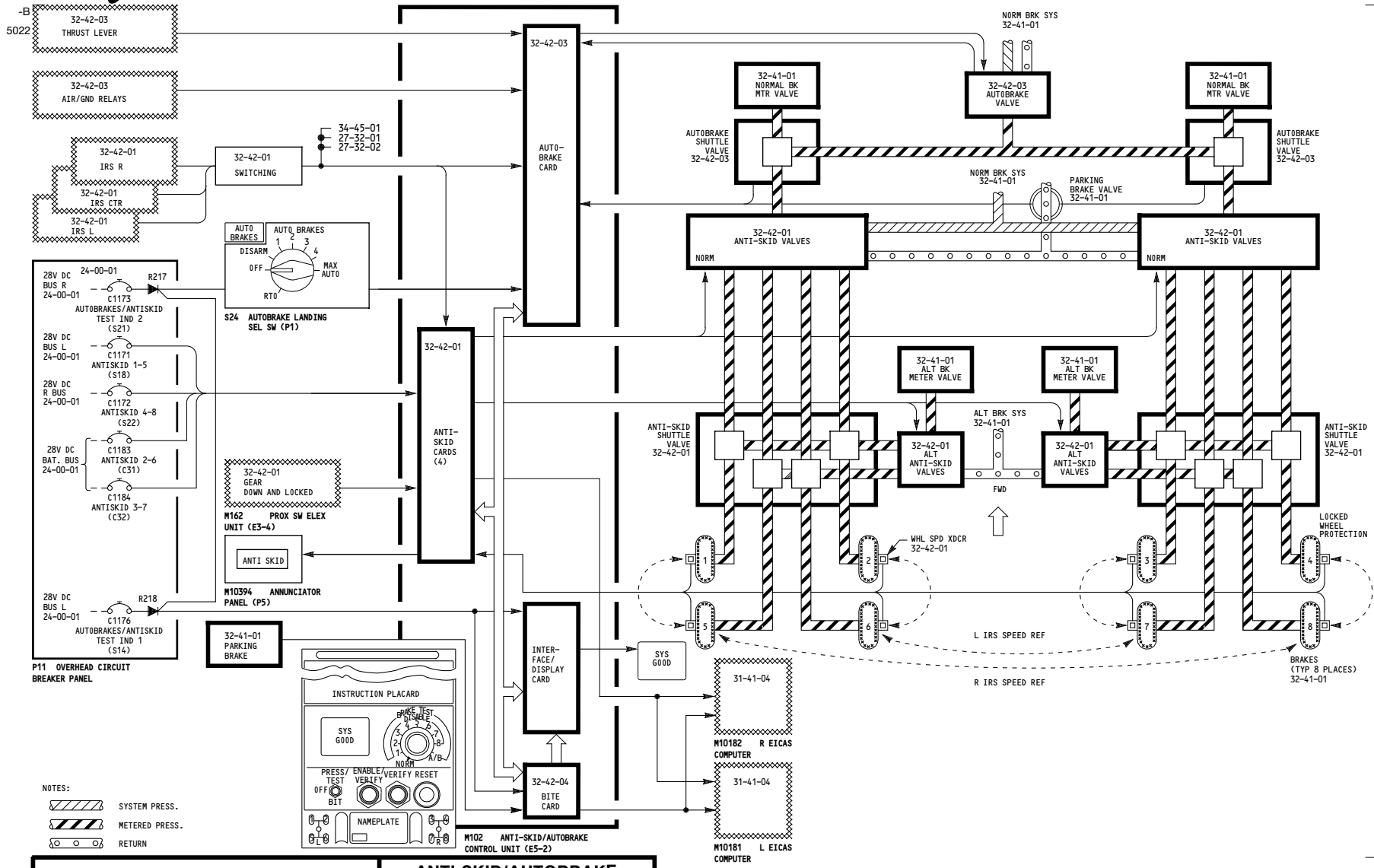
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**BRAKE SYSTEM**

D280N032S

**32-41-01**

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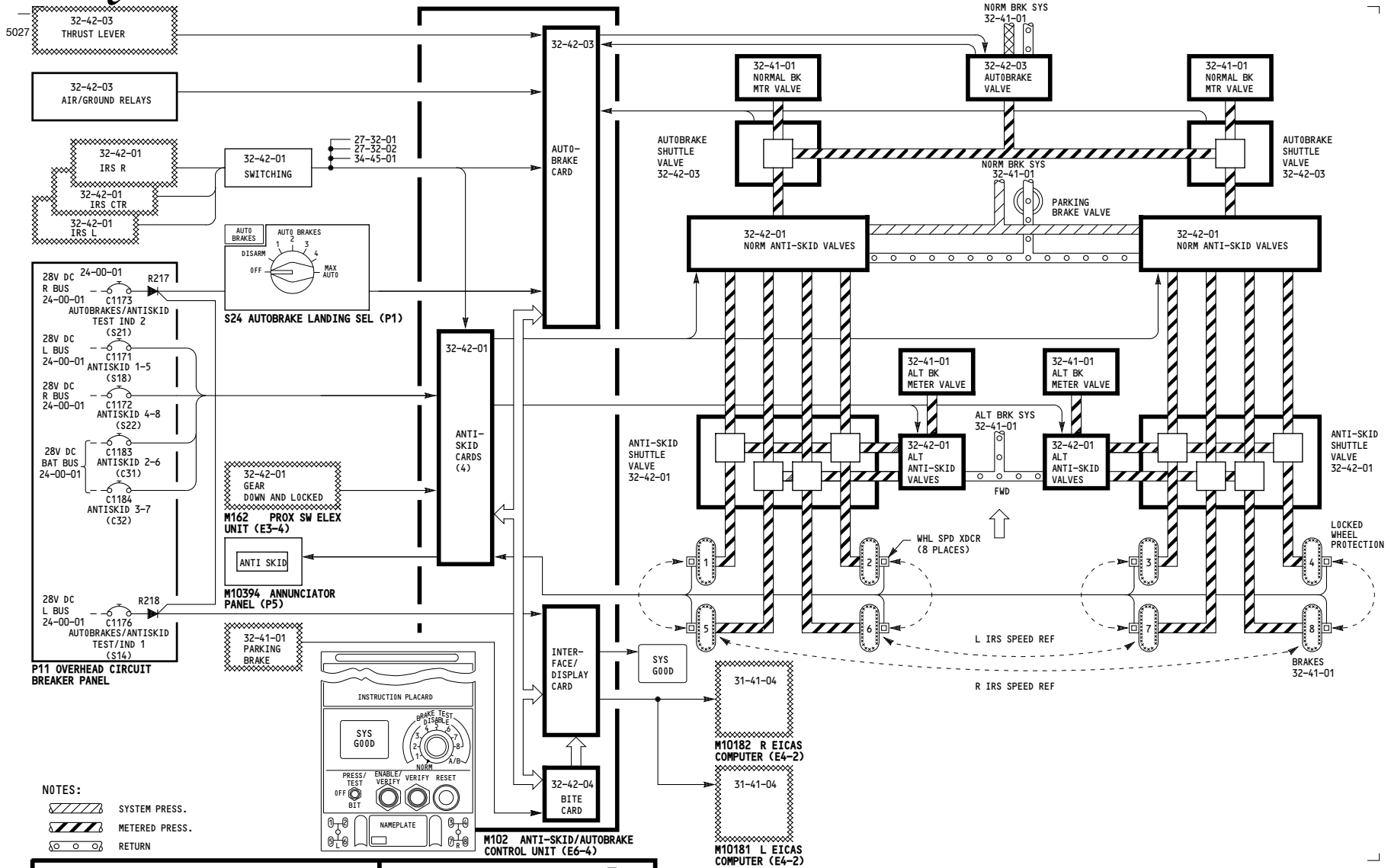
- NOTES:
- SYSTEM PRESS.
  - METERED PRESS.
  - RETURN

001-099

**ANTI-SKID/AUTOBRAKE SYSTEM - SIMPLIFIED**

D280N032S

**32-42-00**



- NOTES:**
- SYSTEM PRESS.
  - METERED PRESS.
  - RETURN

115-199

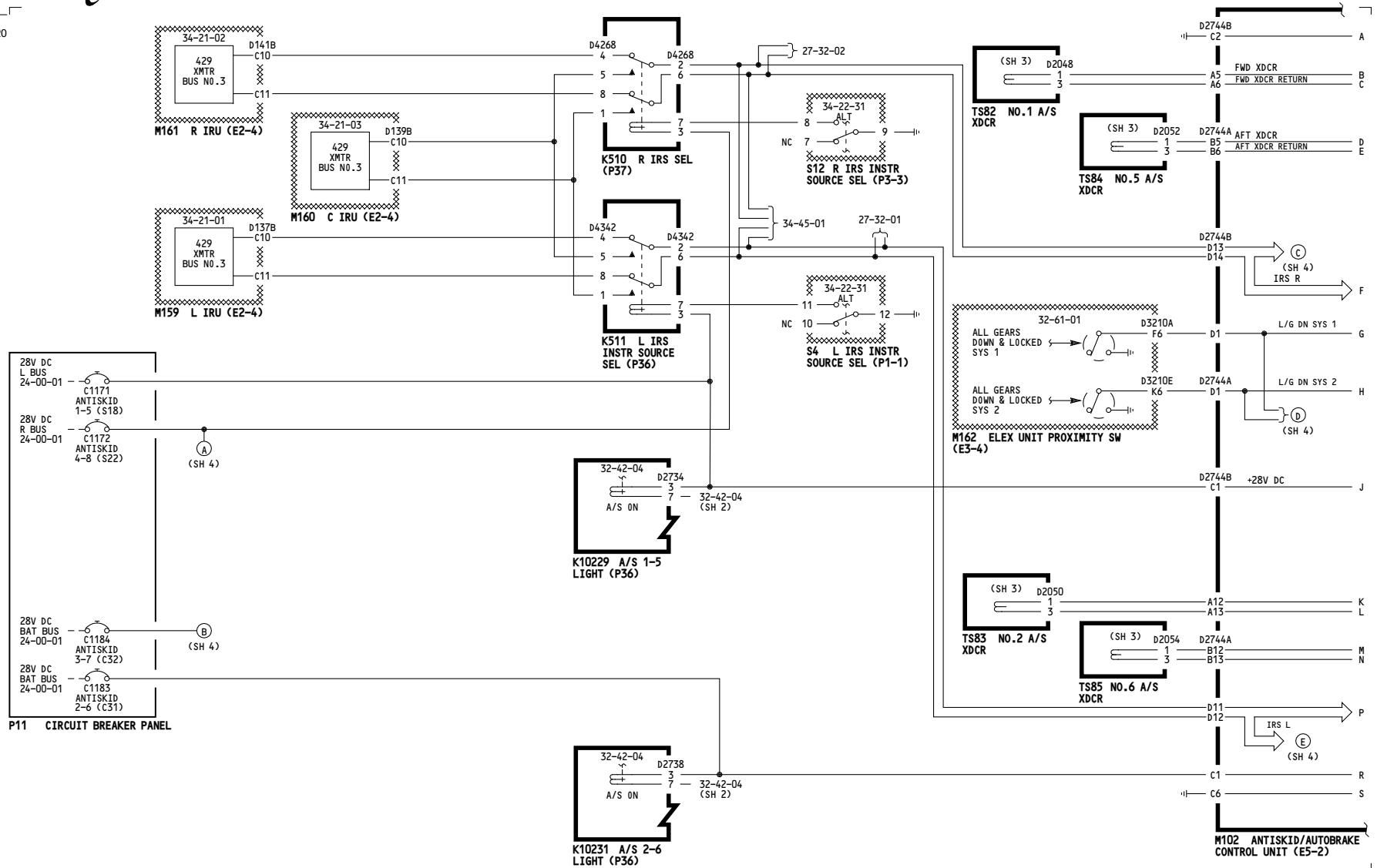
**ANTI-SKID/AUTOBRAKE SYSTEM - SIMPLIFIED**

D280N032S

**32-42-00**

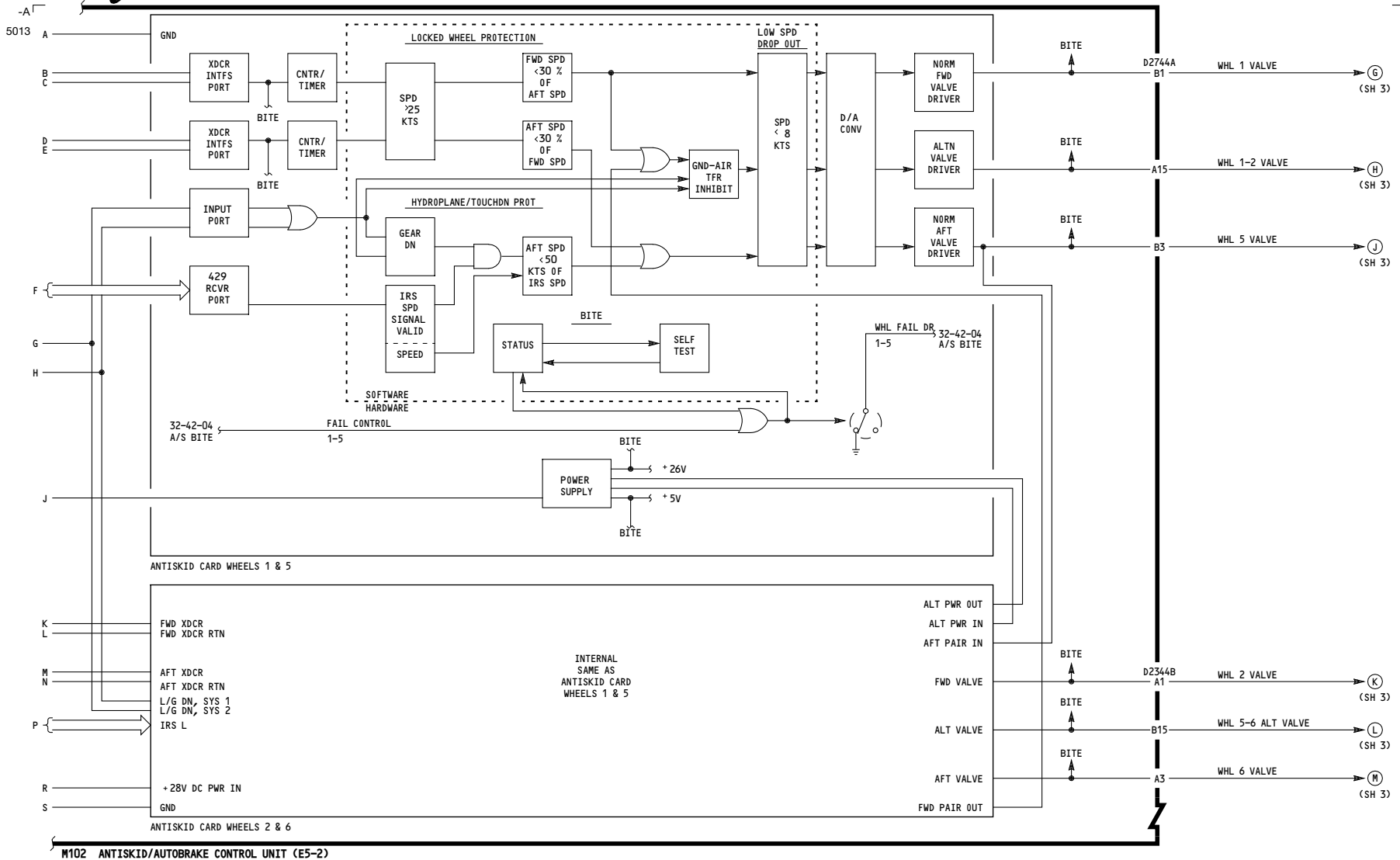


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| 001-099   | <b>ANTI-SKID SYSTEM</b> |
| D280N032S |                         |

**32-42-01**

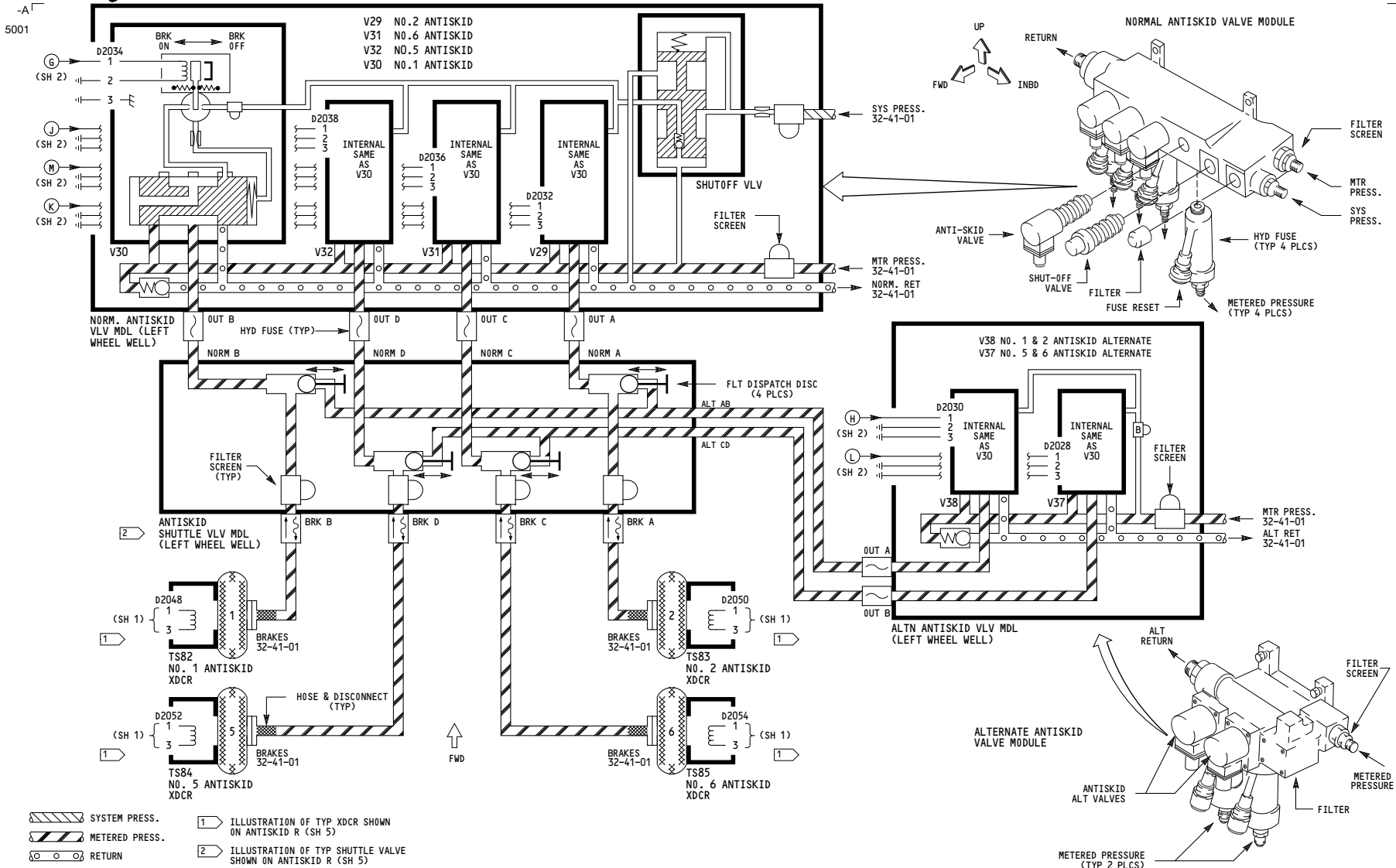


001-099

**ANTI-SKID SYSTEM**

D280N032S

**32-42-01**



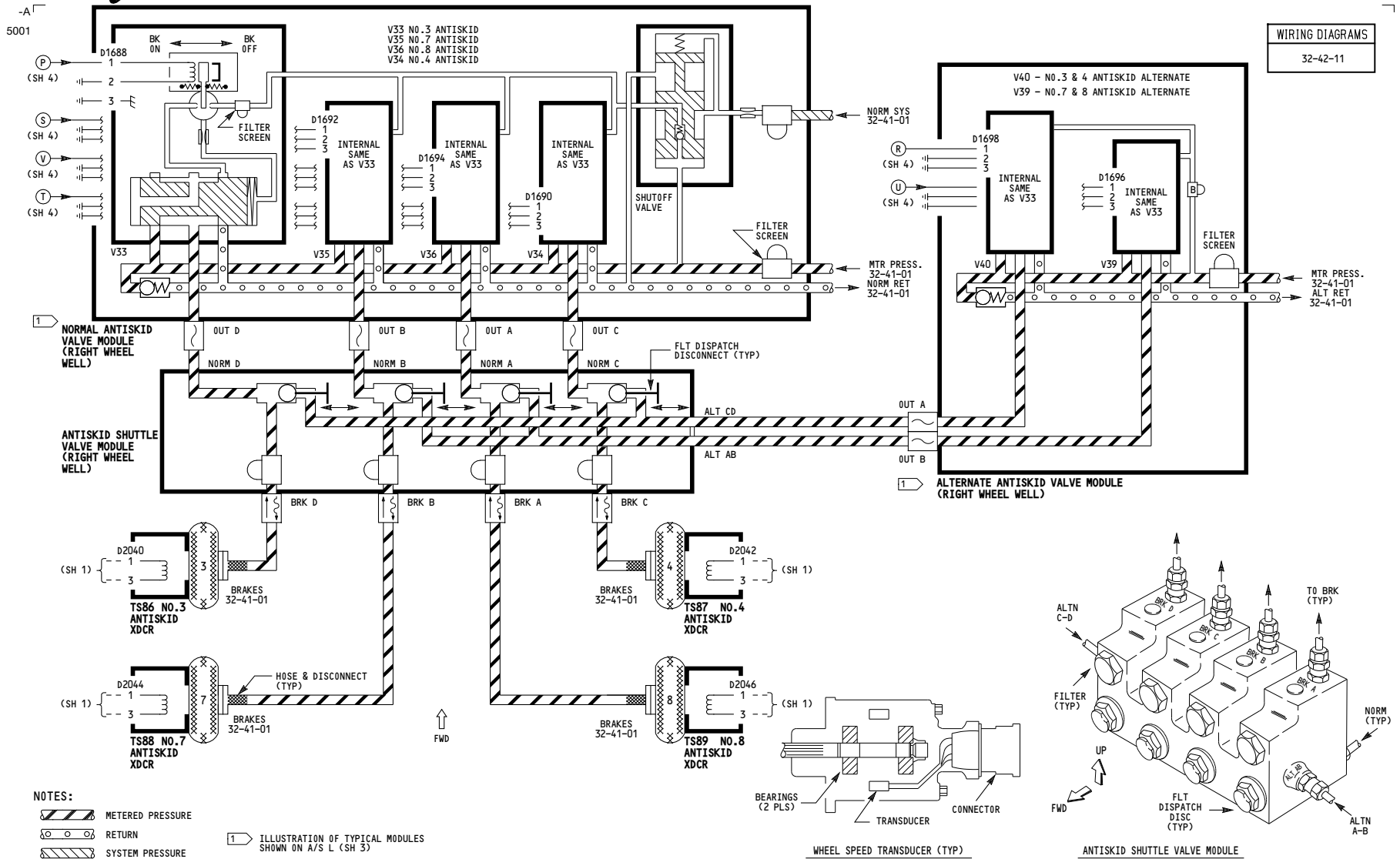
001-099

**ANTI-SKID SYSTEM**

D280N032S

**32-42-01**

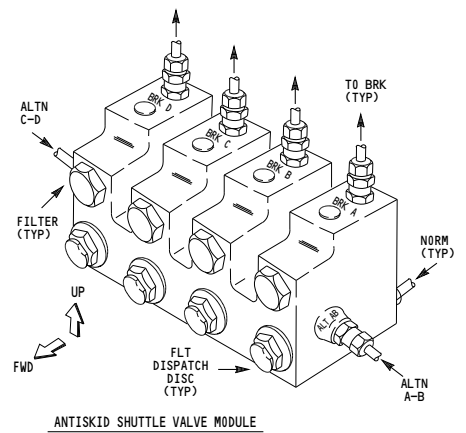




WIRING DIAGRAMS  
32-42-11

- NOTES:**
- METERED PRESSURE
  - RETURN
  - SYSTEM PRESSURE
  - ILLUSTRATION OF TYPICAL MODULES SHOWN ON A/S L (SH 3)

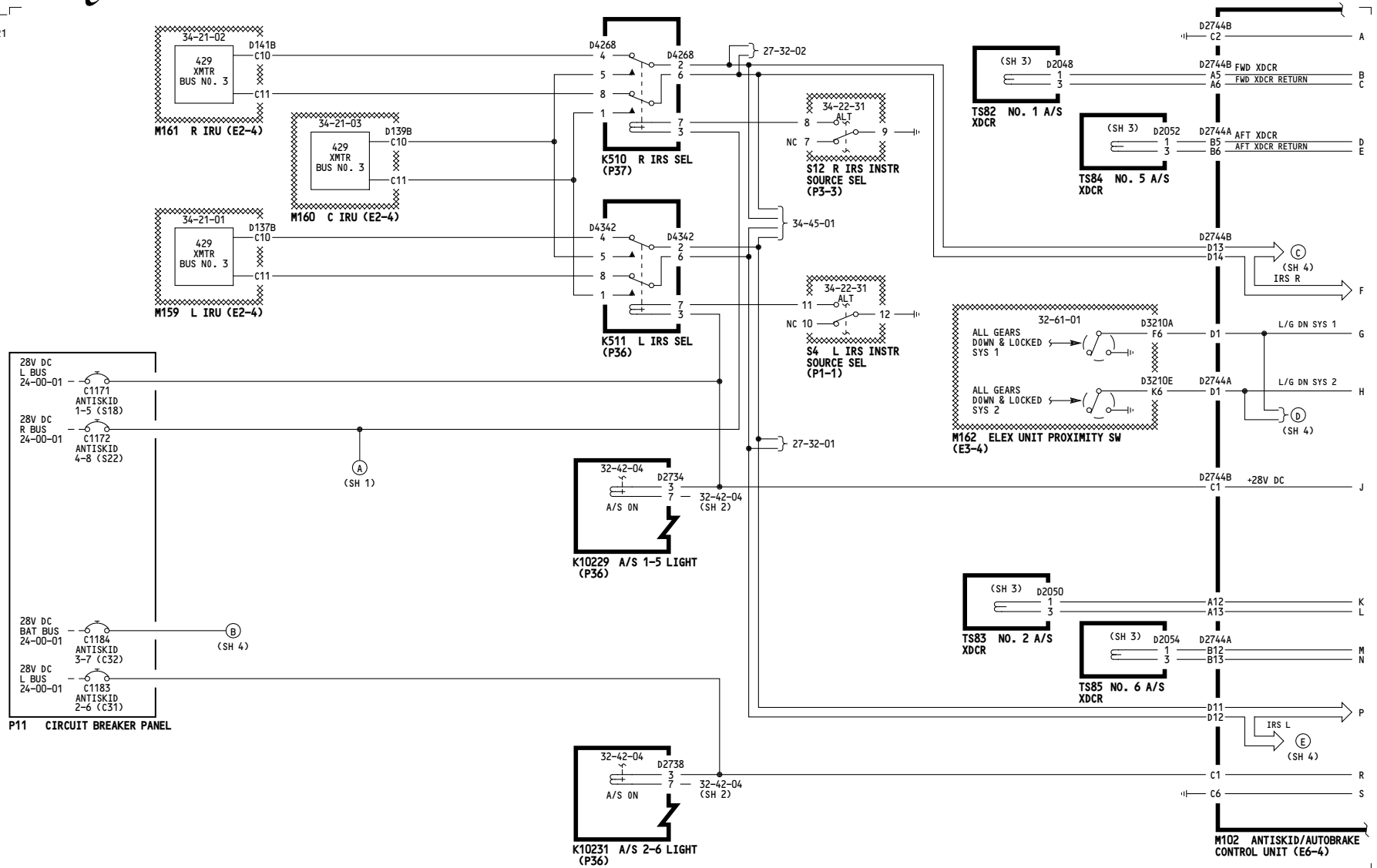
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| 001-099   | <b>ANTI-SKID SYSTEM</b> |
| D280N032S |                         |



**32-42-01**

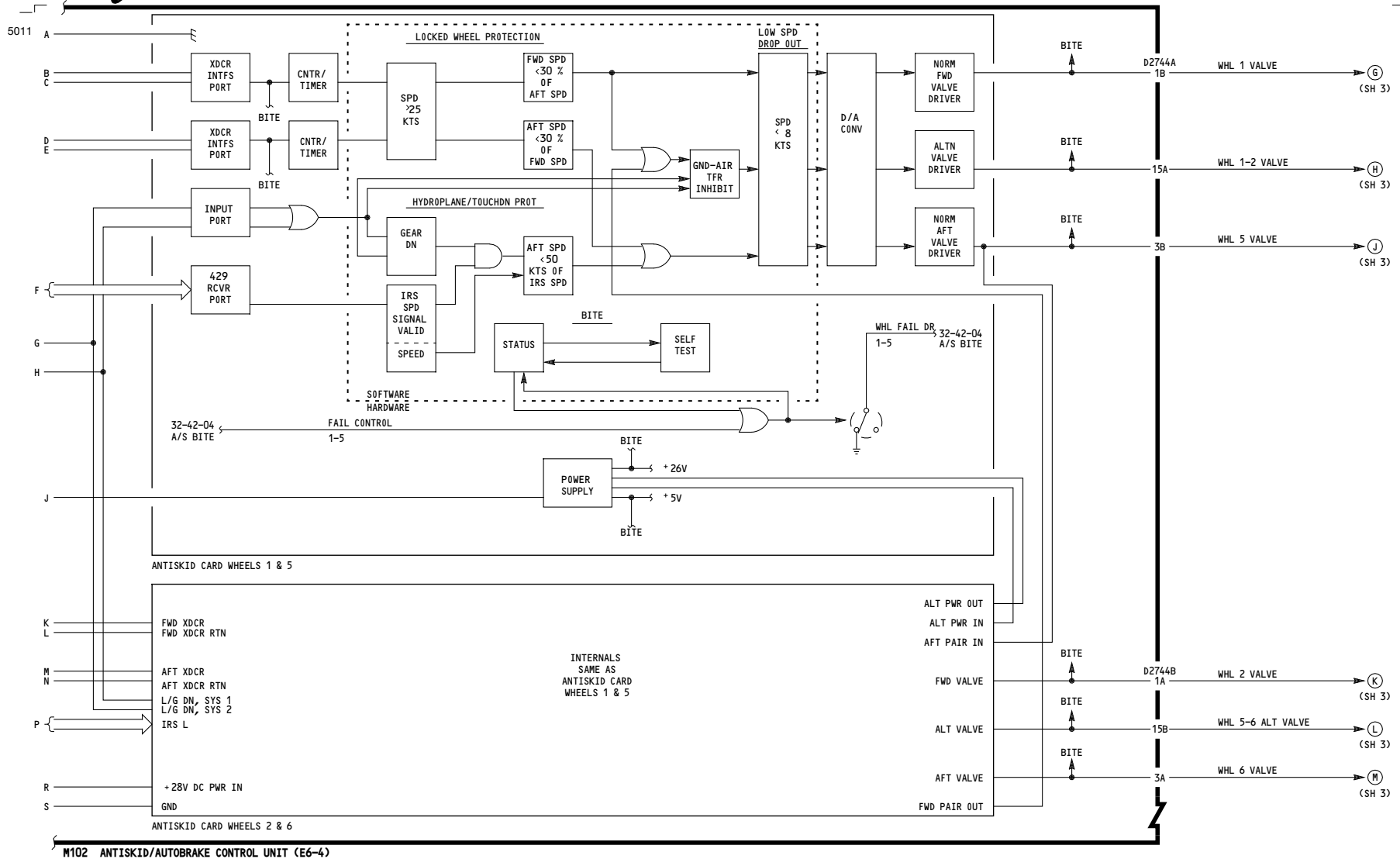
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| 115-199   | <b>ANTI-SKID SYSTEM</b> |
| D280N032S |                         |

**32-42-01**



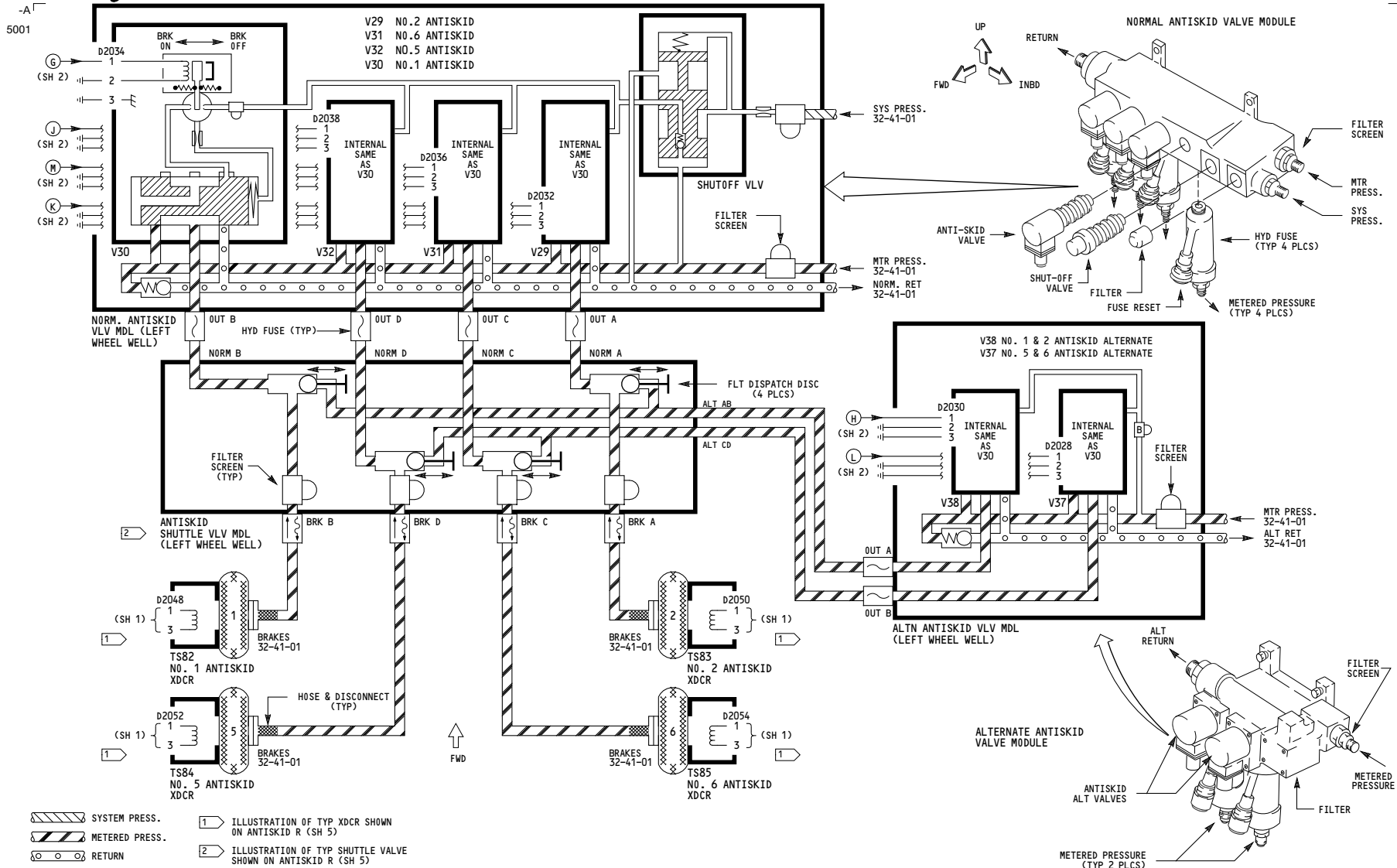
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**ANTI-SKID SYSTEM**

D280N032S

**32-42-01**





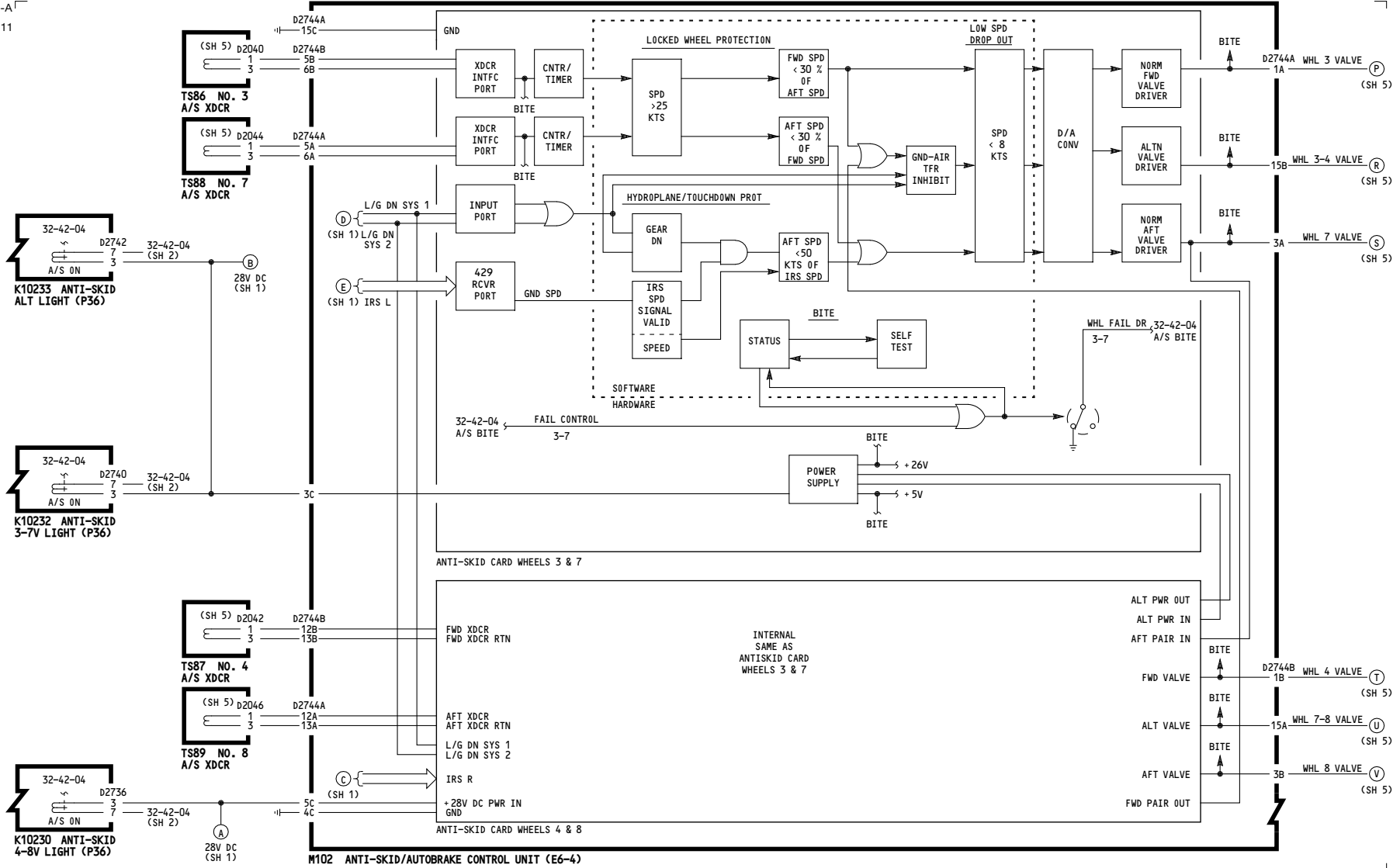
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**ANTI-SKID SYSTEM**

D280N032S

**32-42-01**

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5011

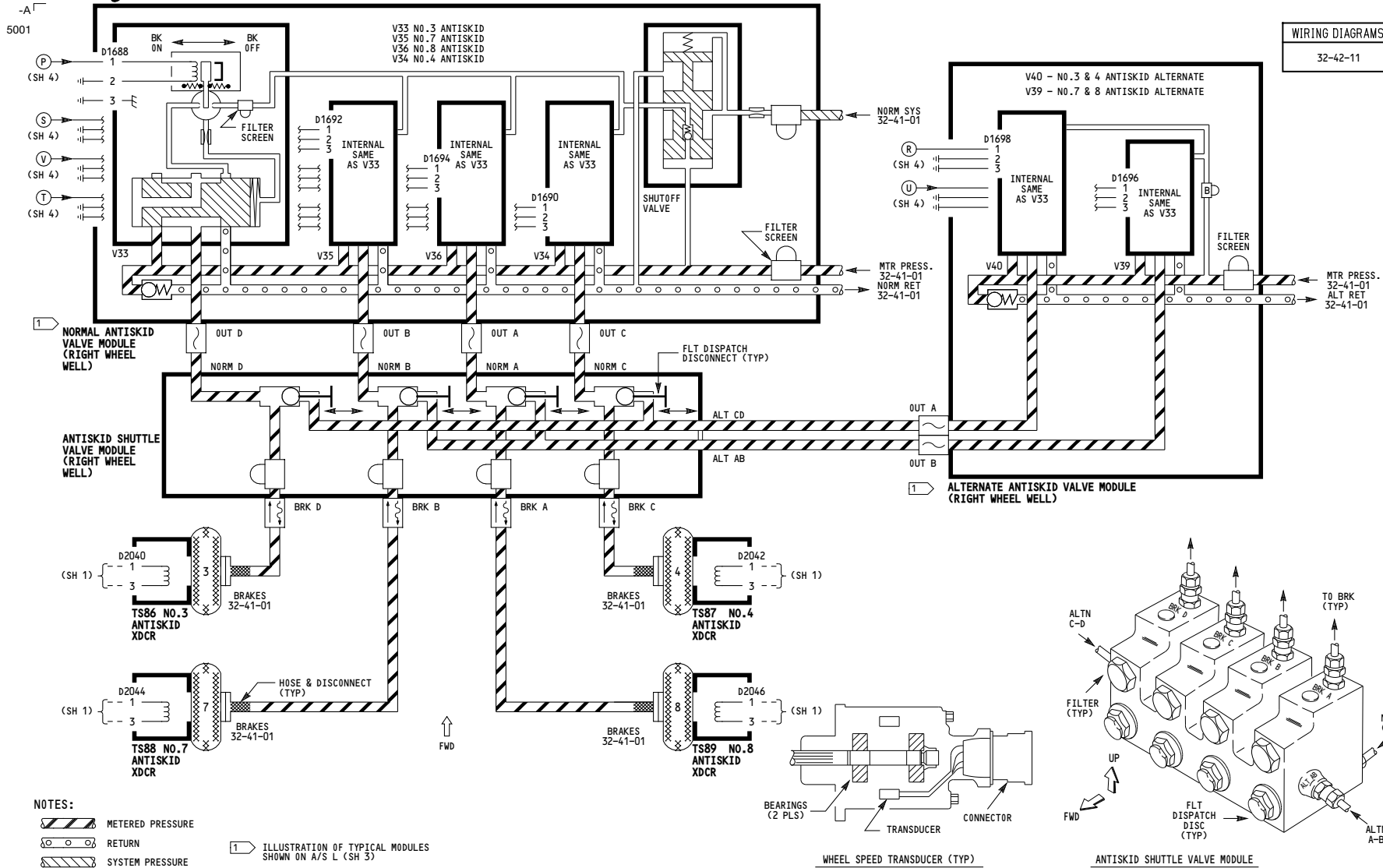


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**ANTI-SKID SYSTEM**

D280N032S

**32-42-01**

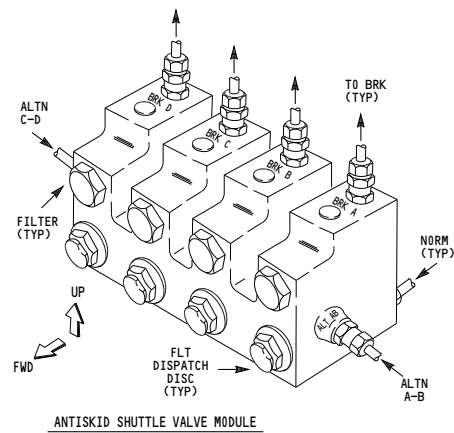


WIRING DIAGRAMS  
32-42-11

**NOTES:**

- METERED PRESSURE
- RETURN
- SYSTEM PRESSURE
- ILLUSTRATION OF TYPICAL MODULES SHOWN ON A/S L (SH 3)

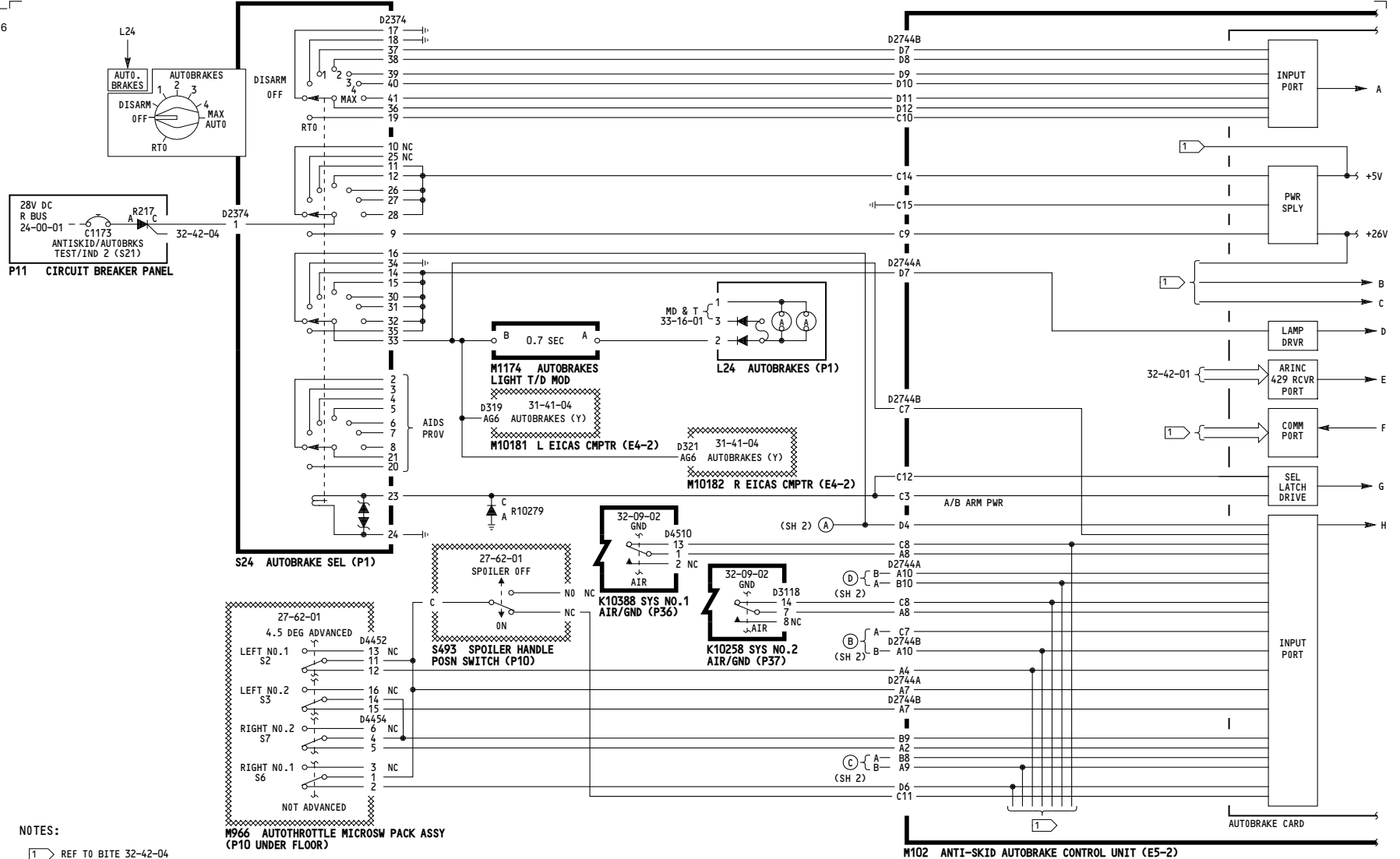
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| D280N032S |                         |



**32-42-01**

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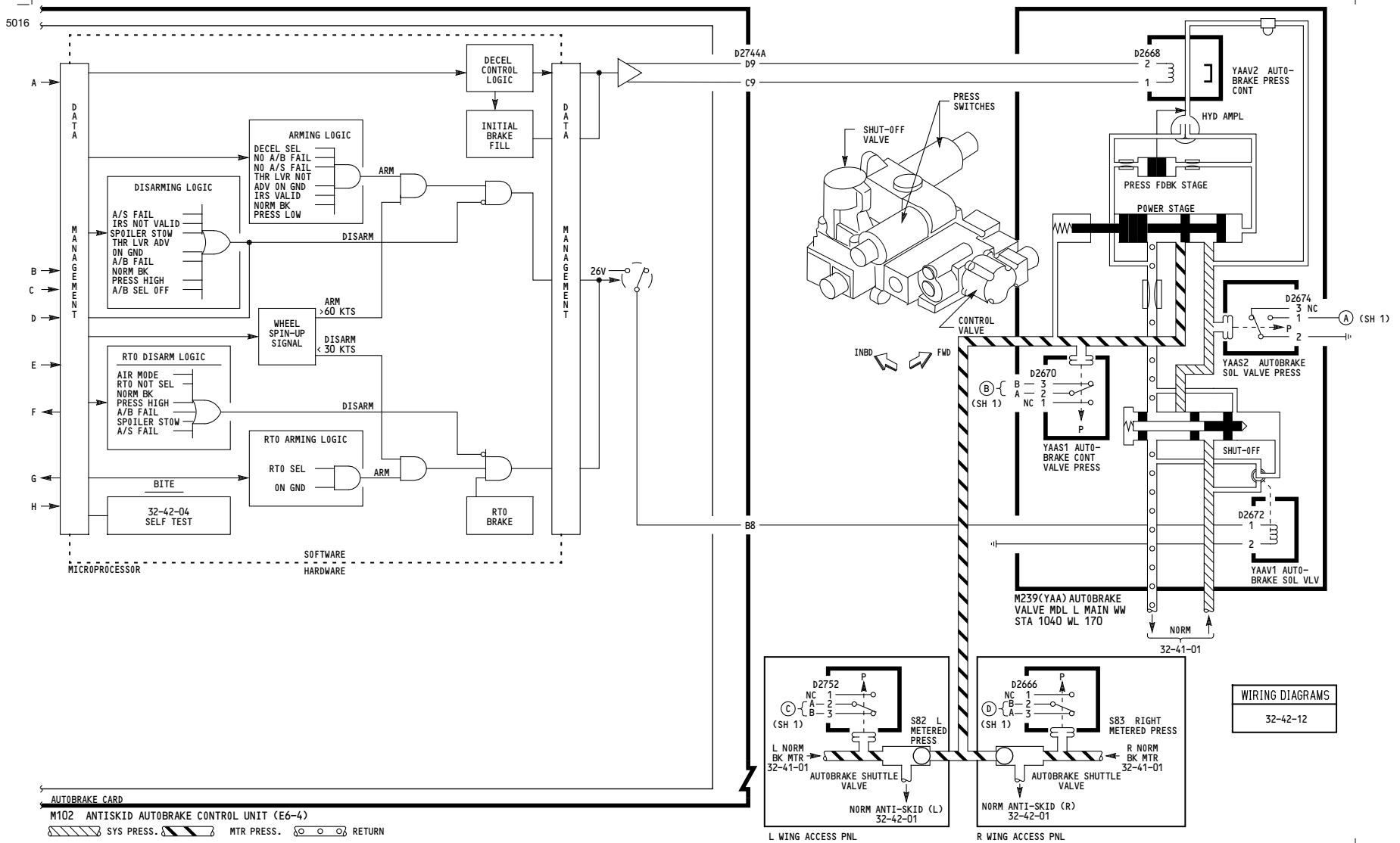
NOTES:  
 1 REF TO BITE 32-42-04

|         |                         |
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| 001-099 | <b>AUTOBRAKE SYSTEM</b> |
|         | D280N032S               |

**32-42-03**







115-199

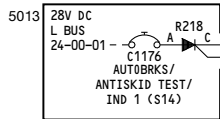
**AUTOBRAKE SYSTEM**

D280N032S

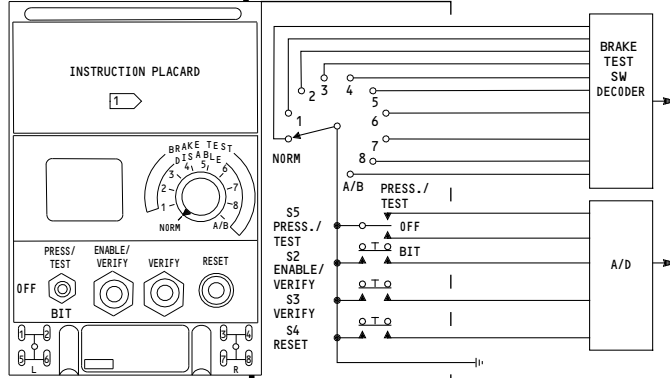
**32-42-03**

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**P11 CIRCUIT BREAKER PANEL**



**NOTES:**

**DISPLAY TEST** - SELECT "PRESS/TEST"  
ALL DISPLAY SEGMENTS LIGHT, ALL A/S & A/B INDICATORS LIGHT, TAXI SPEED (OPT) READS 15 KNOTS  
**MEMORY RECALL** - SELECT "BIT" "TEST END" OR STORED FAILURE DISPLAYED. SELECT "BIT" TO CONTINUE

**WARNING:** TESTS APPLY AND RELEASE BRAKES. VERIFY AREA AROUND BRAKES IS CLEAR

**AIRCRAFT CONFIGURATION** - CHOCK WHEELS, RELEASE PARKING BRAKE. PRESSURIZE RIGHT & LEFT HYD SYSTEMS. THRUST LEVERS IN IDLE, SPOILERS STOWED, IRS IN "NAV" MODE. ANTISKID SWITCH (OPT) ON. ANTISKID/AUTOBRAKE CONTROL TEST - ARM A/B

POSITION 1 ROTARY SW IN "NORM" POSITION. DEPRESS "ENABLE/VERIFY" AND HOLD. THEN DEPRESS "VERIFY" RELEASE BOTH.  
"TEST END" OR FAILED LRU DISPLAYED. DEPRESS "VERIFY" TO CONTINUE.

**NORMAL ANTISKID BRAKE TEST** - FULLY DEPRESS BRAKE PEDALS. ROTARY SW IN "BRAKE TEST 1" POSITION. DEPRESS "ENABLE/VERIFY" AND HOLD. THEN DEPRESS VERIFY RELEASE BOTH REPEAT FOR POSITIONS 2-8. RELEASE BRAKE PEDALS.

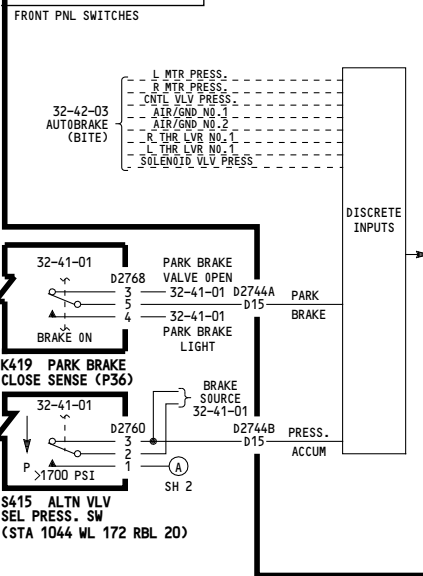
SELECTED BRAKE DISPLAYED RELEASES THEN REAPPLIES.

**ALTERNATE ANTISKID BRAKE TEST** - DEPRESSURIZE HYD SYSTEM R REPEAT ABOVE TEST

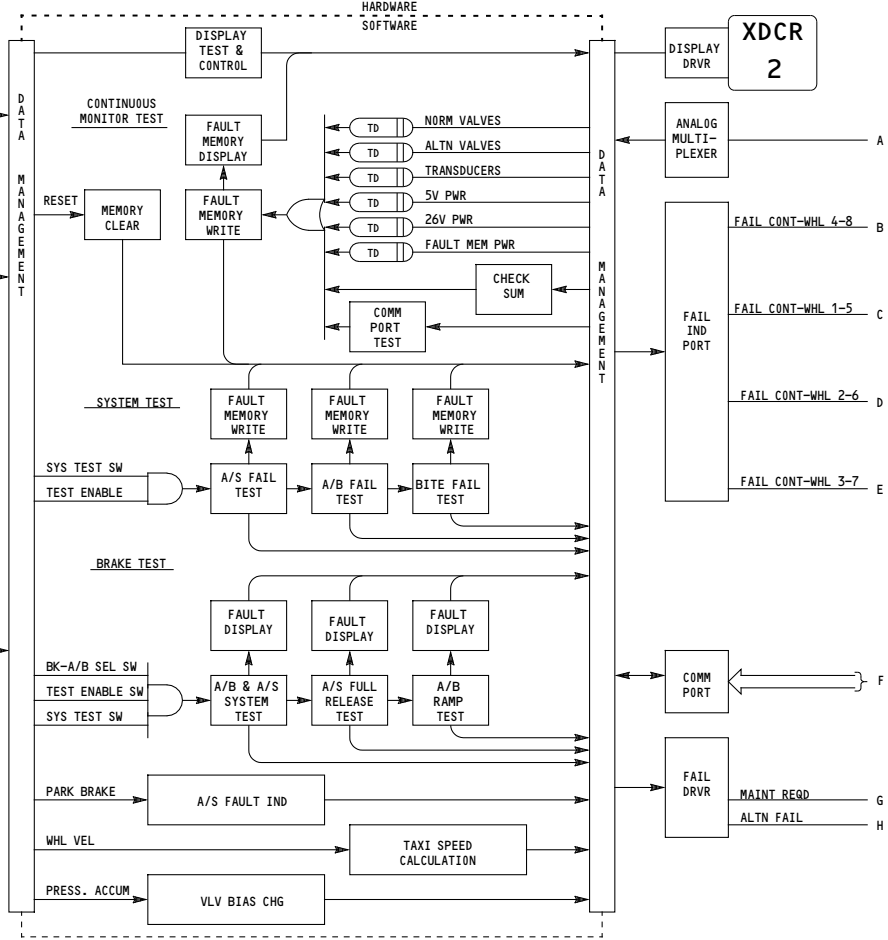
SELECTED BRAKE DISPLAYED. SELECTED BRAKE AND PAIRED BRAKE RELEASE. THEN REAPPLY.

**AUTOBRAKE APPLICATION TEST** - PRESSURIZE HYD SYS R ARM A/B POSITION 1. ROTARY SW IN "A/B" POSITION. DEPRESS "ENABLE/VERIFY" AND HOLD. THEN DEPRESS "VERIFY". RELEASE BOTH REPEAT FOR POSITIONS 2,3,4, MAX AUTO. AND RTO (OPT)

A/B SW POSITION DISPLAYED. ALL BRAKES APPLY TO LIMIT. THEN TO 200-400 PSI. THE A/B DISARMS. MEMORY CLEAR-SELECT "RESET"



**M102 ANTISKID/AUTOBRAKE CONTROL UNIT (E5-2)**



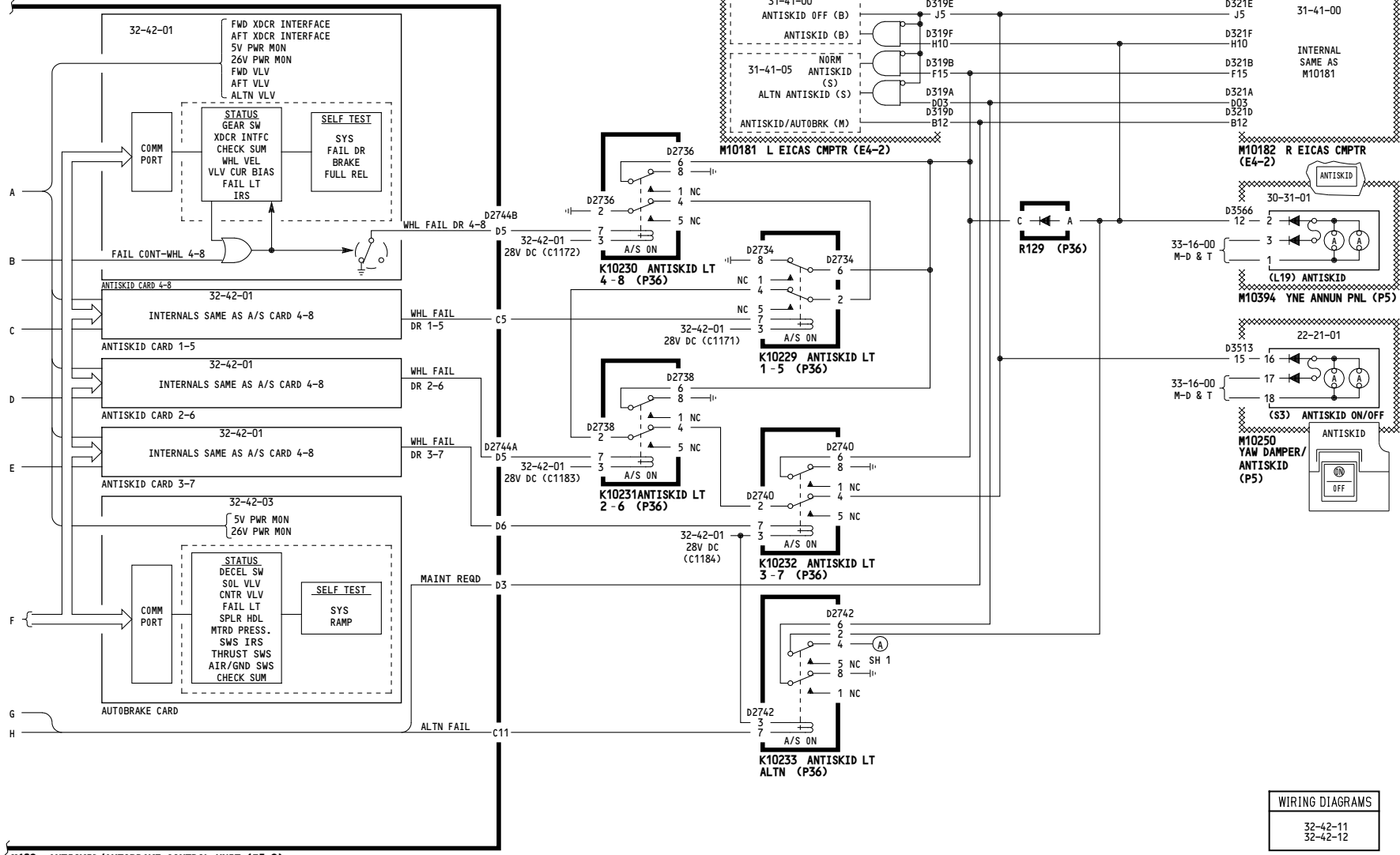
001-099

**ANTI-SKID/AUTOBRAKE - BITE**

D280N032S

**32-42-04**

5015



001-099

**ANTI-SKID/AUTOBRAKE - BITE**

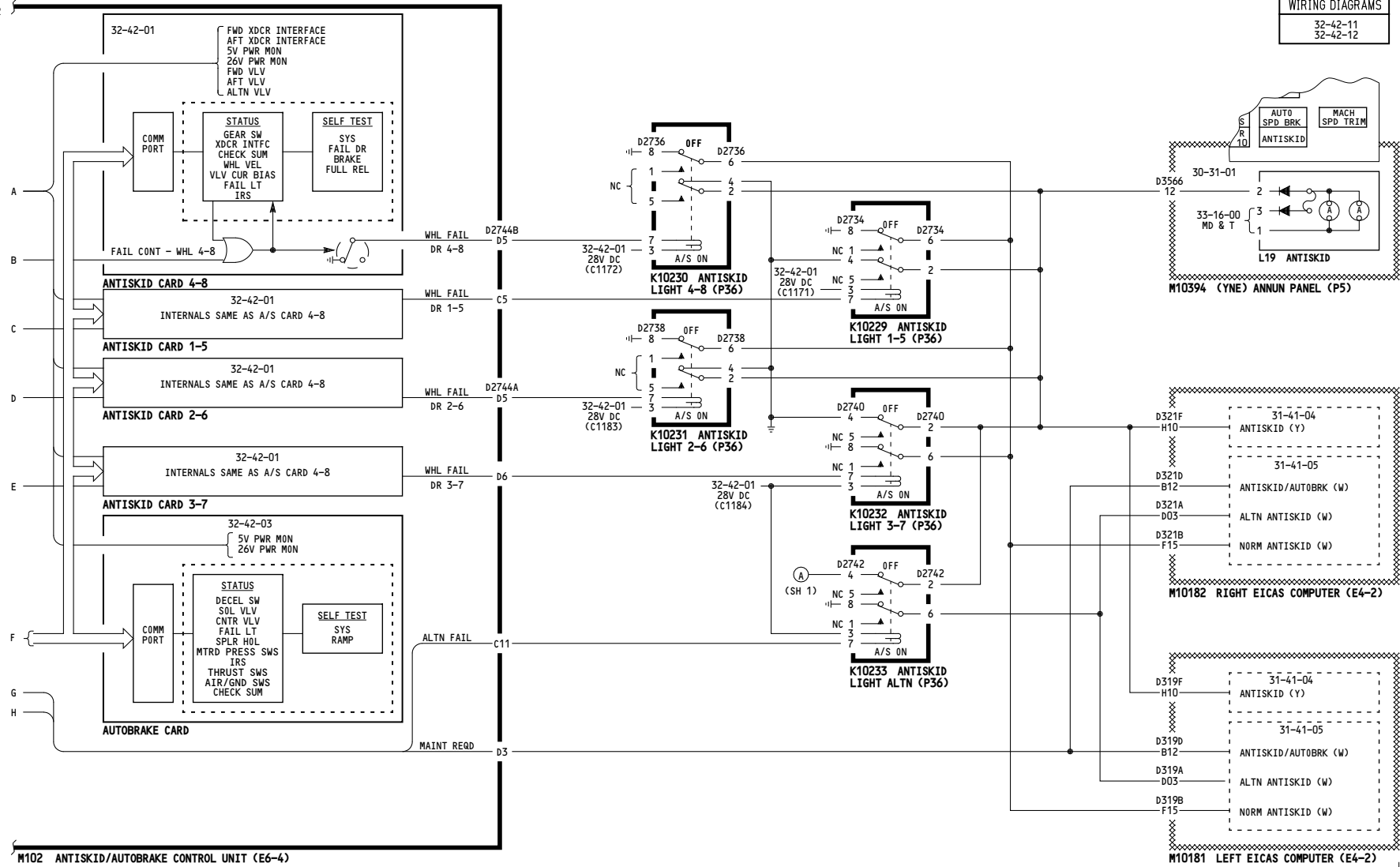
D280N032S

WIRING DIAGRAMS  
32-42-11  
32-42-12

**32-42-04**



5012

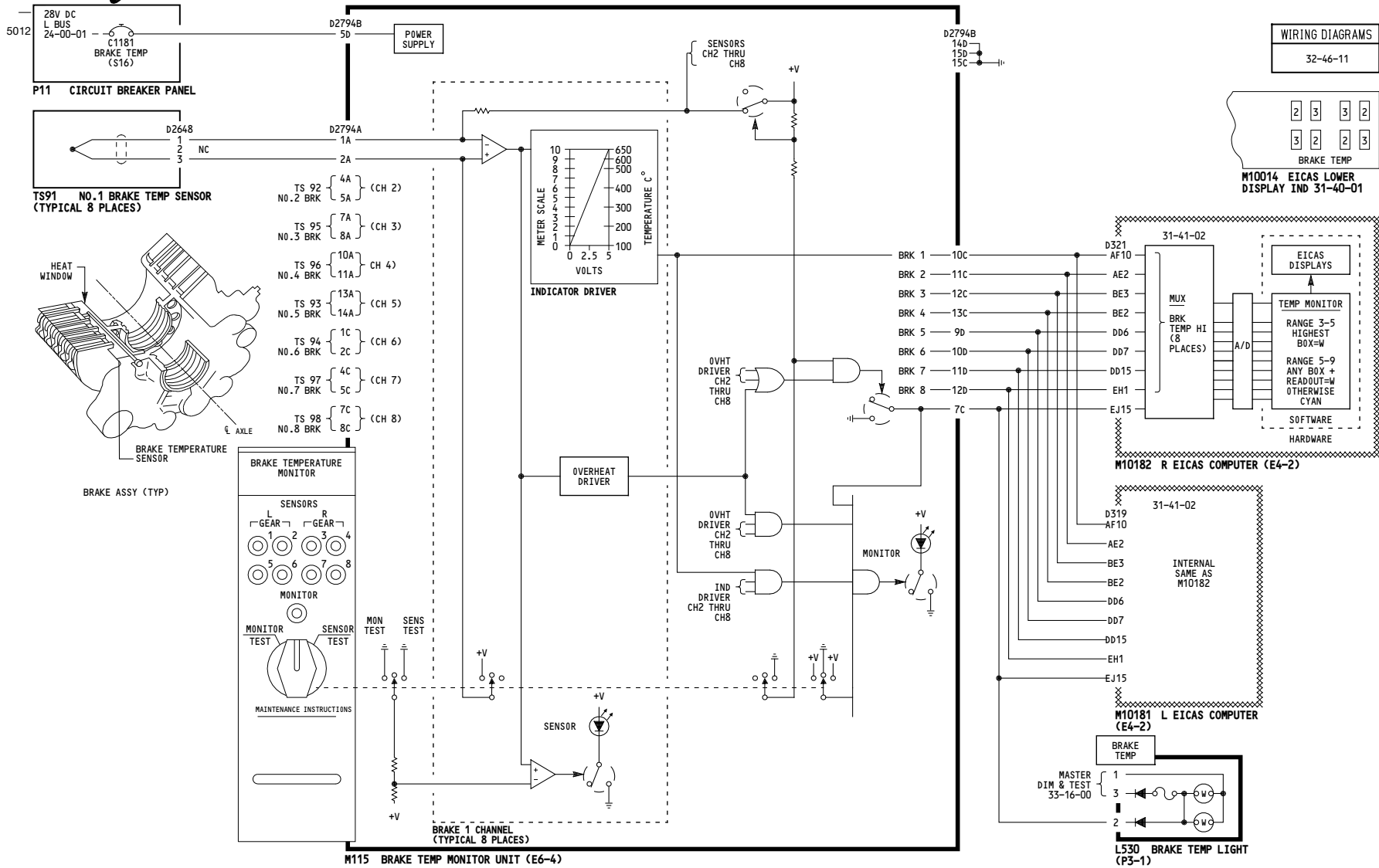


115-199

**ANTI-SKID/AUTOBRAKE - BITE**

D280N032S

**32-42-04**

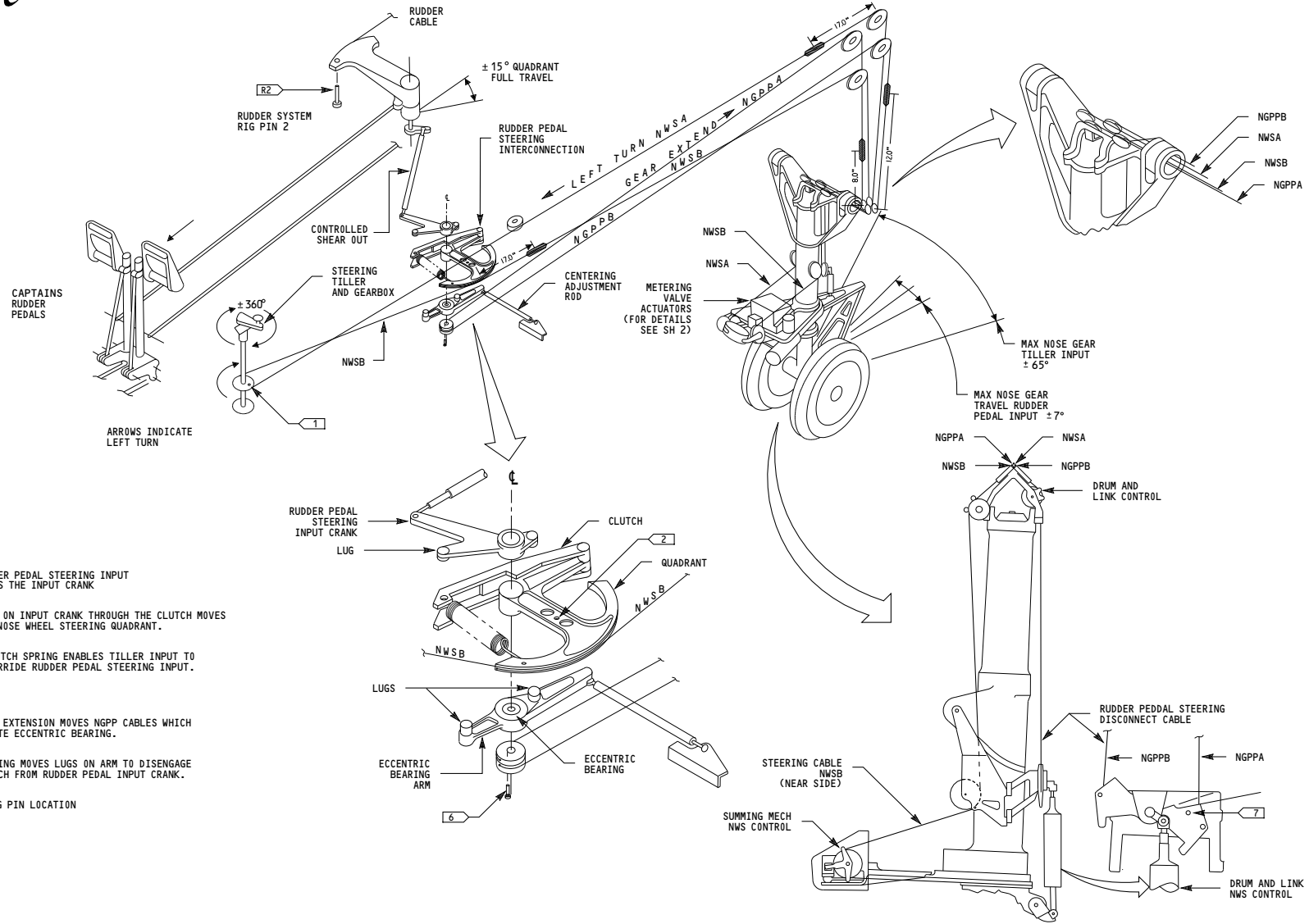


|     |  |
|-----|--|
| ALL | <b>BRAKE TEMPERATURE MONITORING SYSTEM</b> |
|     | D280N032S                                  |

**32-46-01**

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5000



**ON GROUND**

- ① RUDDER PEDAL STEERING INPUT MOVES THE INPUT CRANK
- ② LUGS ON INPUT CRANK THROUGH THE CLUTCH MOVES THE NOSE WHEEL STEERING QUADRANT.

NOTE: CLUTCH SPRING ENABLES TILLER INPUT TO OVERRIDE RUDDER PEDAL STEERING INPUT.

**IN AIR**

- ① OLEO EXTENSION MOVES NGPP CABLES WHICH ROTATE ECCENTRIC BEARING.
- ② BEARING MOVES LUGS ON ARM TO DISENGAGE CLUTCH FROM RUDDER PEDAL INPUT CRANK.

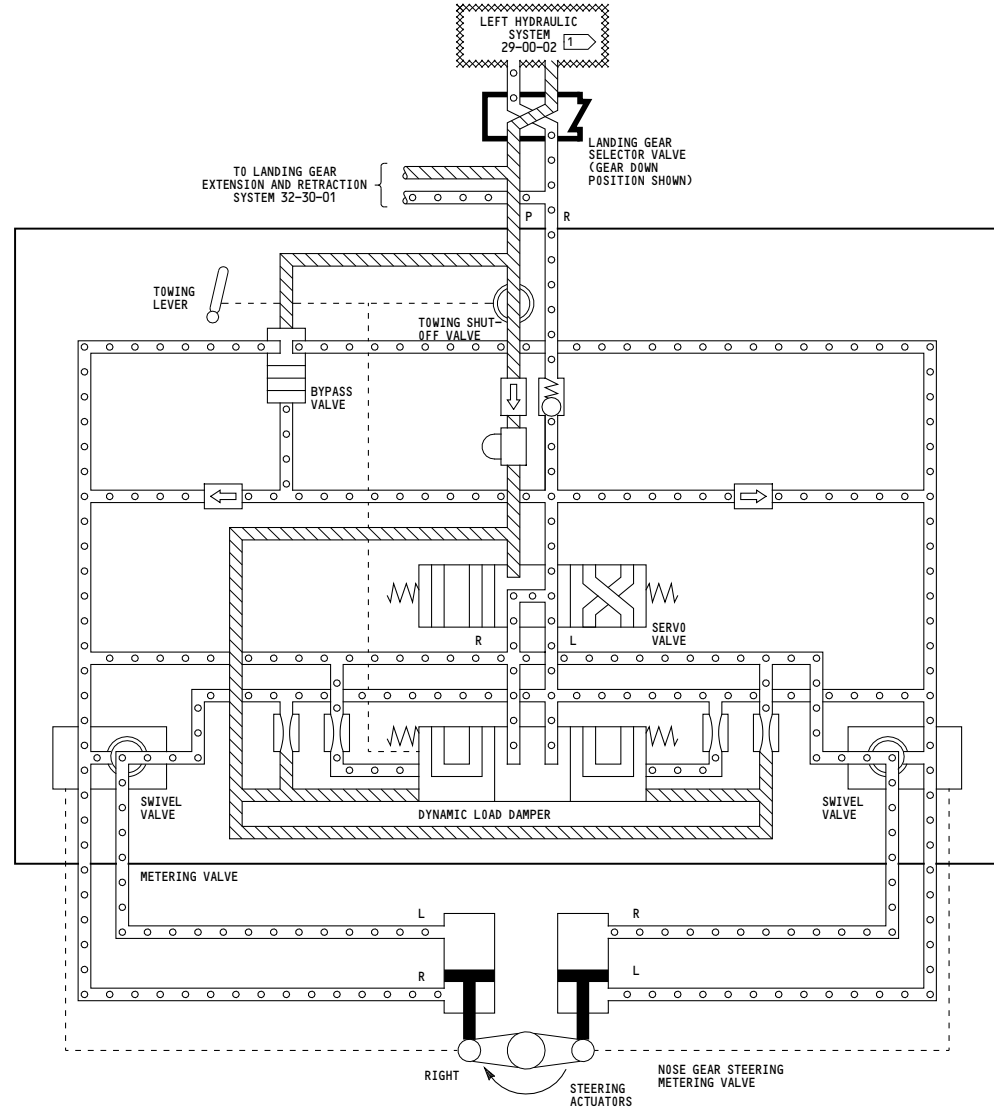
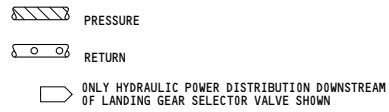
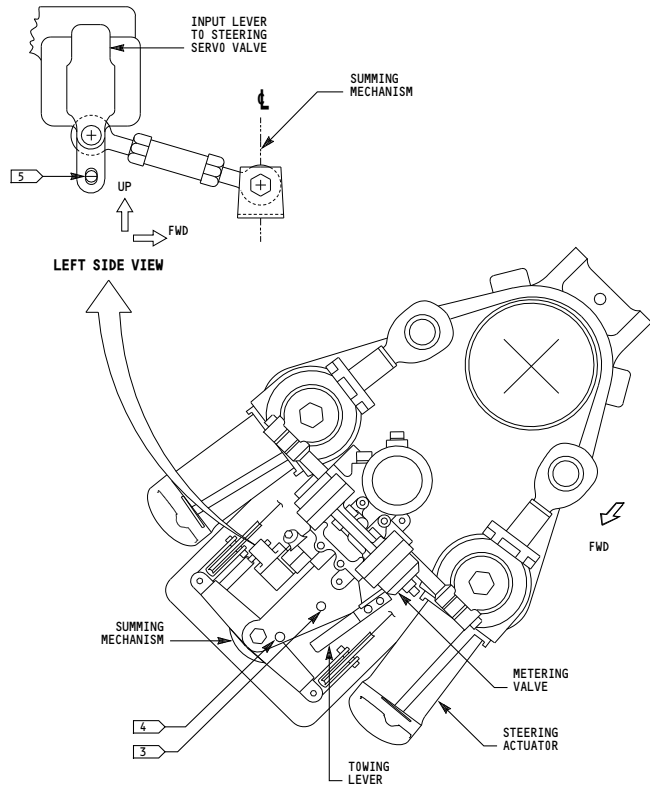
▭ RIG PIN LOCATION

|           |                            |
|-----------|----------------------------|
| 001-099   | <b>NOSE WHEEL STEERING</b> |
| D280N032S |                            |

**32-51-01**

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5000



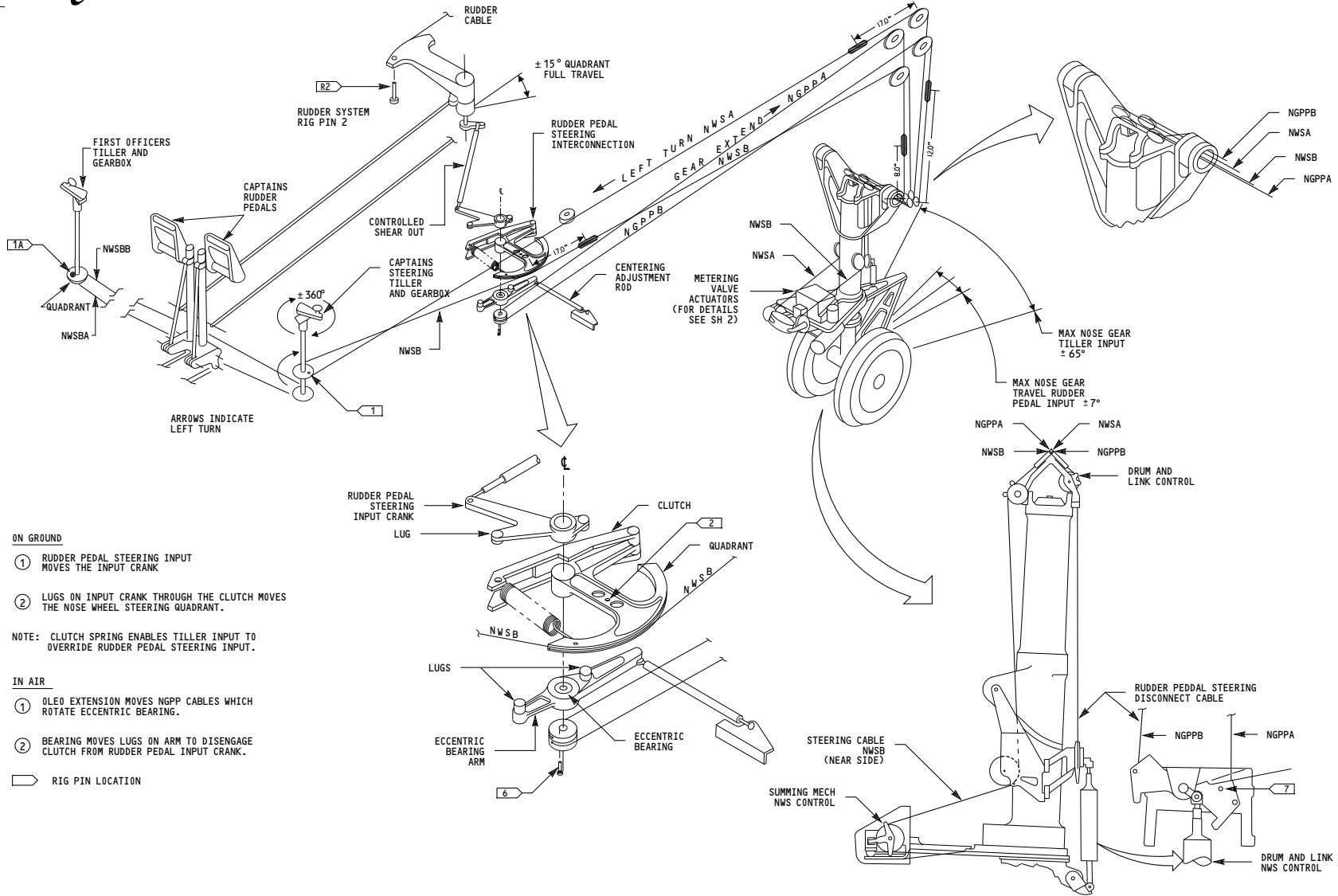
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| 001-099 | <p align="center"><b>NOSE WHEEL STEERING</b></p> <p align="center">D280N032S</p> |
|---------|--|

**32-51-01**

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Sheet 2  
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5011



**ON GROUND**

- ① RUDDER PEDAL STEERING INPUT MOVES THE INPUT CRANK
- ② LUGS ON INPUT CRANK THROUGH THE CLUTCH MOVES THE NOSE WHEEL STEERING QUADRANT.

NOTE: CLUTCH SPRING ENABLES TILLER INPUT TO OVERRIDE RUDDER PEDAL STEERING INPUT.

**IN AIR**

- ① OLEO EXTENSION MOVES NGPP CABLES WHICH ROTATE ECCENTRIC BEARING.
- ② BEARING MOVES LUGS ON ARM TO DISENGAGE CLUTCH FROM RUDDER PEDAL INPUT CRANK.

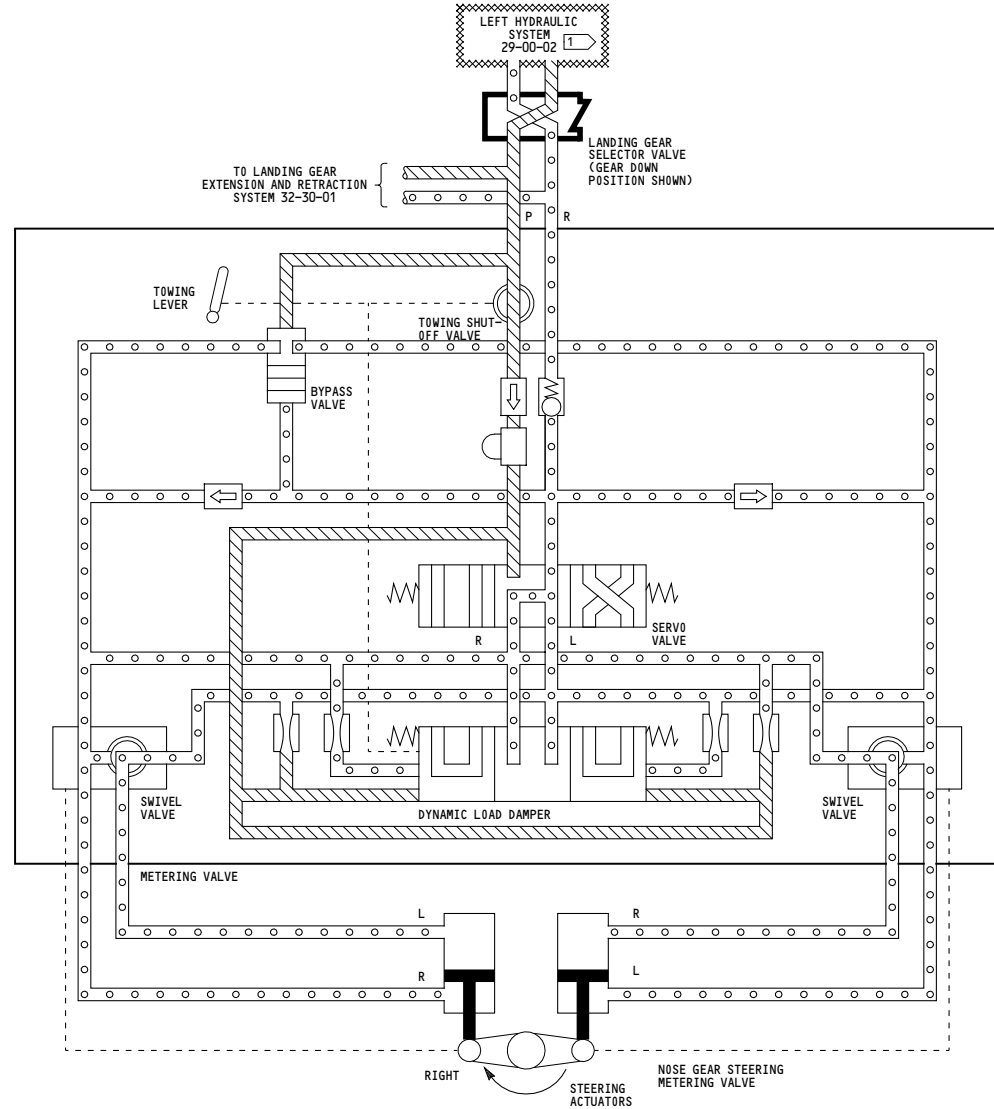
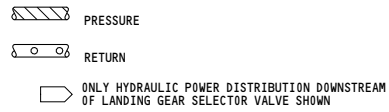
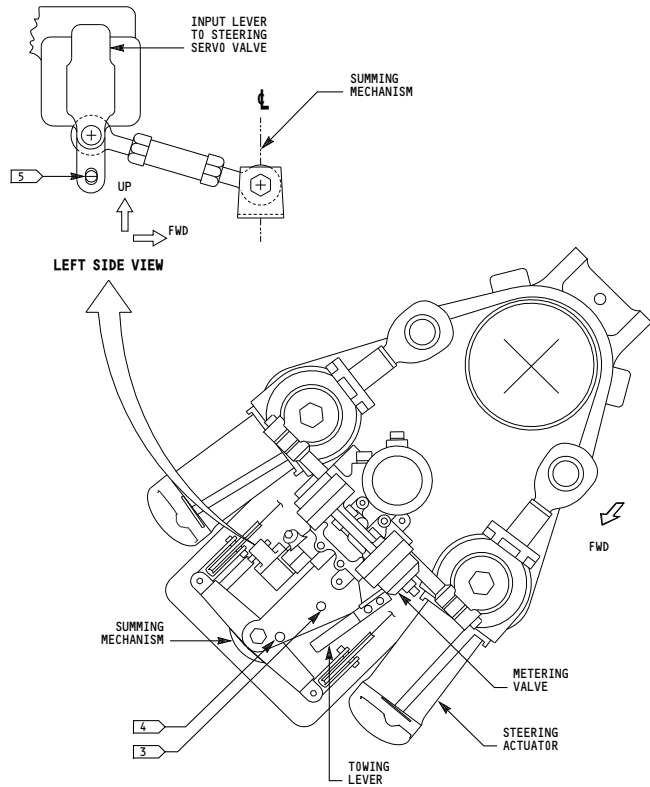
▭ RIG PIN LOCATION

|           |                            |
|-----------|----------------------------|
| 115-199   | <b>NOSE WHEEL STEERING</b> |
| D280N032S |                            |

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5000



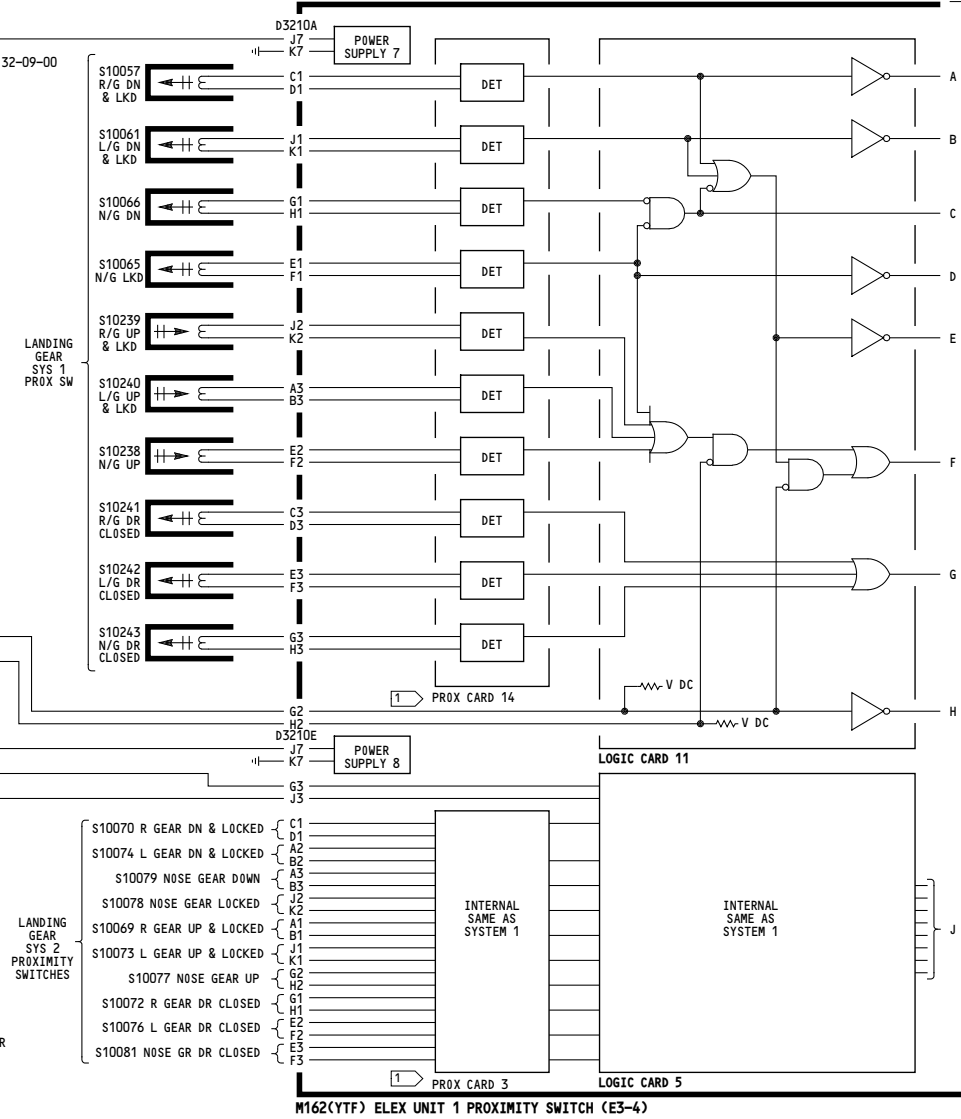
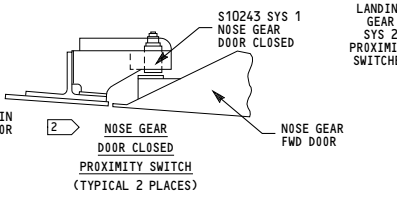
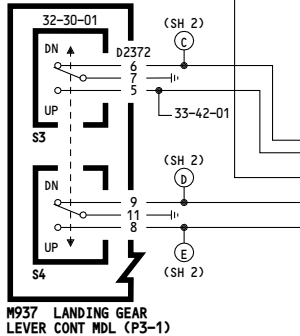
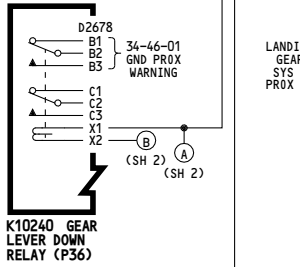
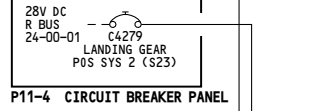
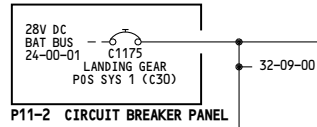
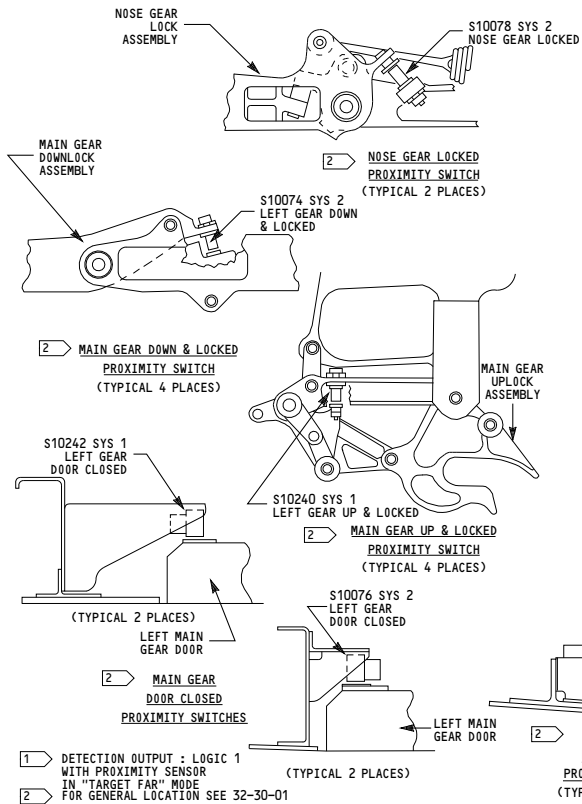
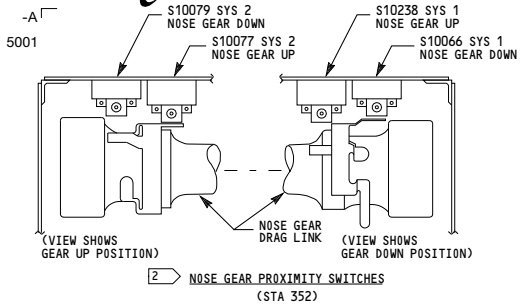
115-199

**NOSE WHEEL STEERING**

D280N032S

**32-51-01**

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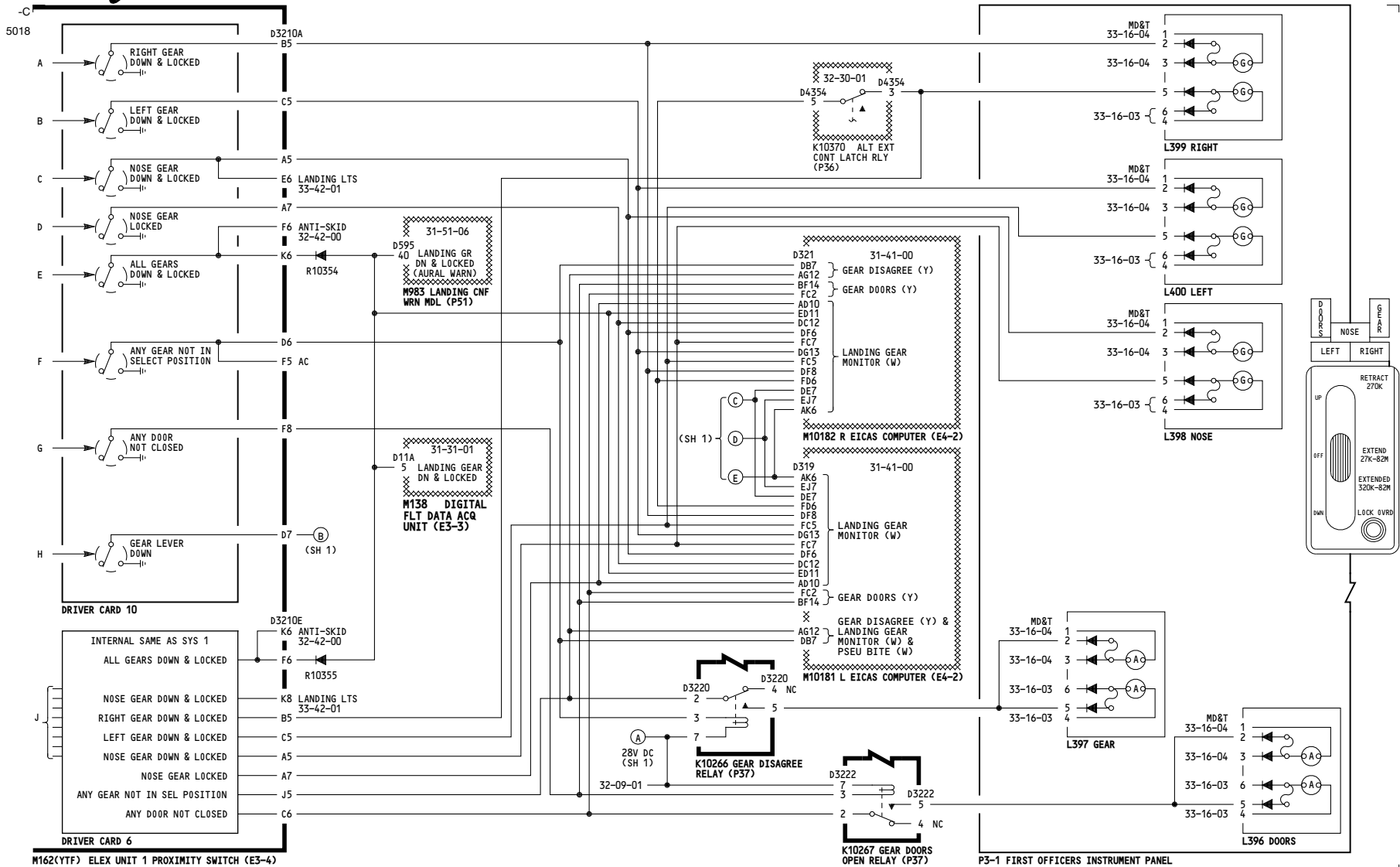


001-002

**LANDING GEAR POSITION INDICATING AND WARNING**

D280N032S

**32-61-01**



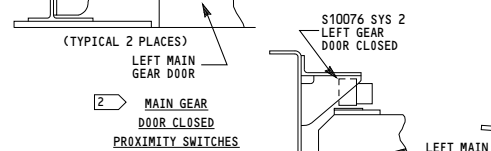
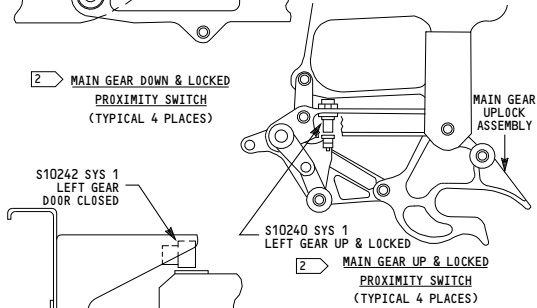
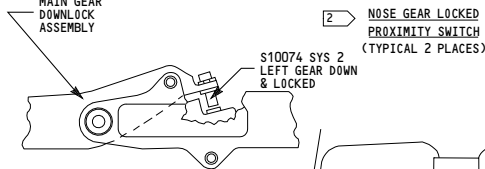
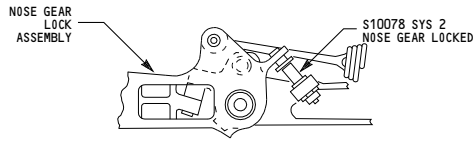
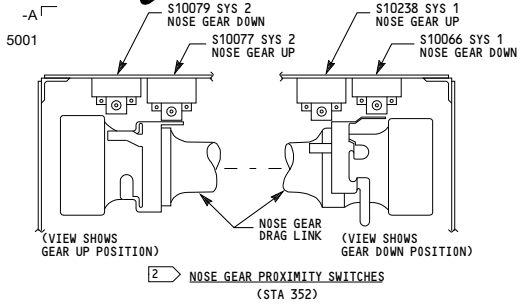
001-002

**LANDING GEAR POSITION INDICATING AND WARNING**

D280N032S

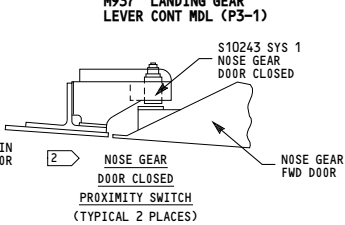
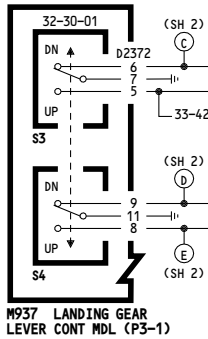
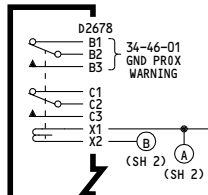
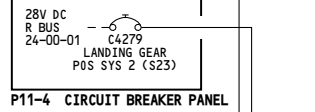
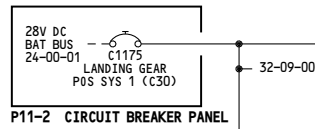
**32-61-01**

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Sheet 2  
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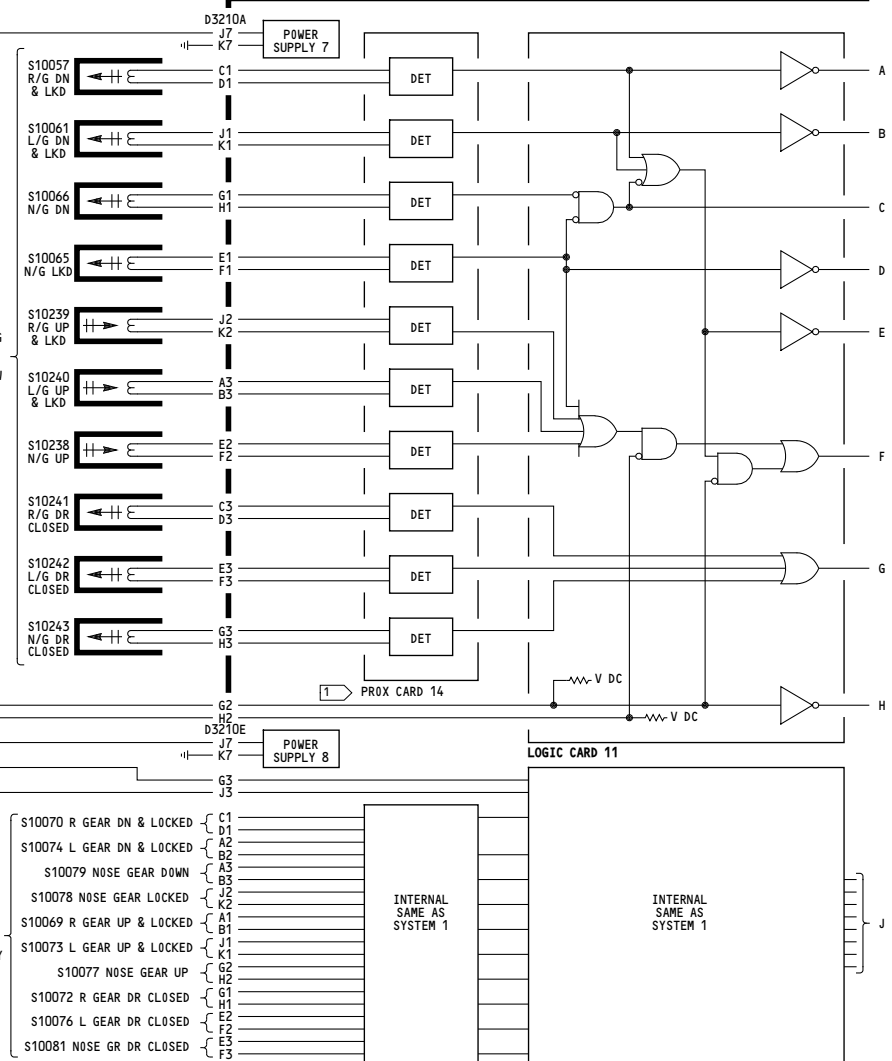
1 DETECTION OUTPUT : LOGIC 1 WITH PROXIMITY SENSOR IN "TARGET FAR" MODE FOR GENERAL LOCATION SEE 32-30-01

2



LANDING GEAR SYS 1 PROX SW

LANDING GEAR SYS 2 PROXIMITY SWITCHES



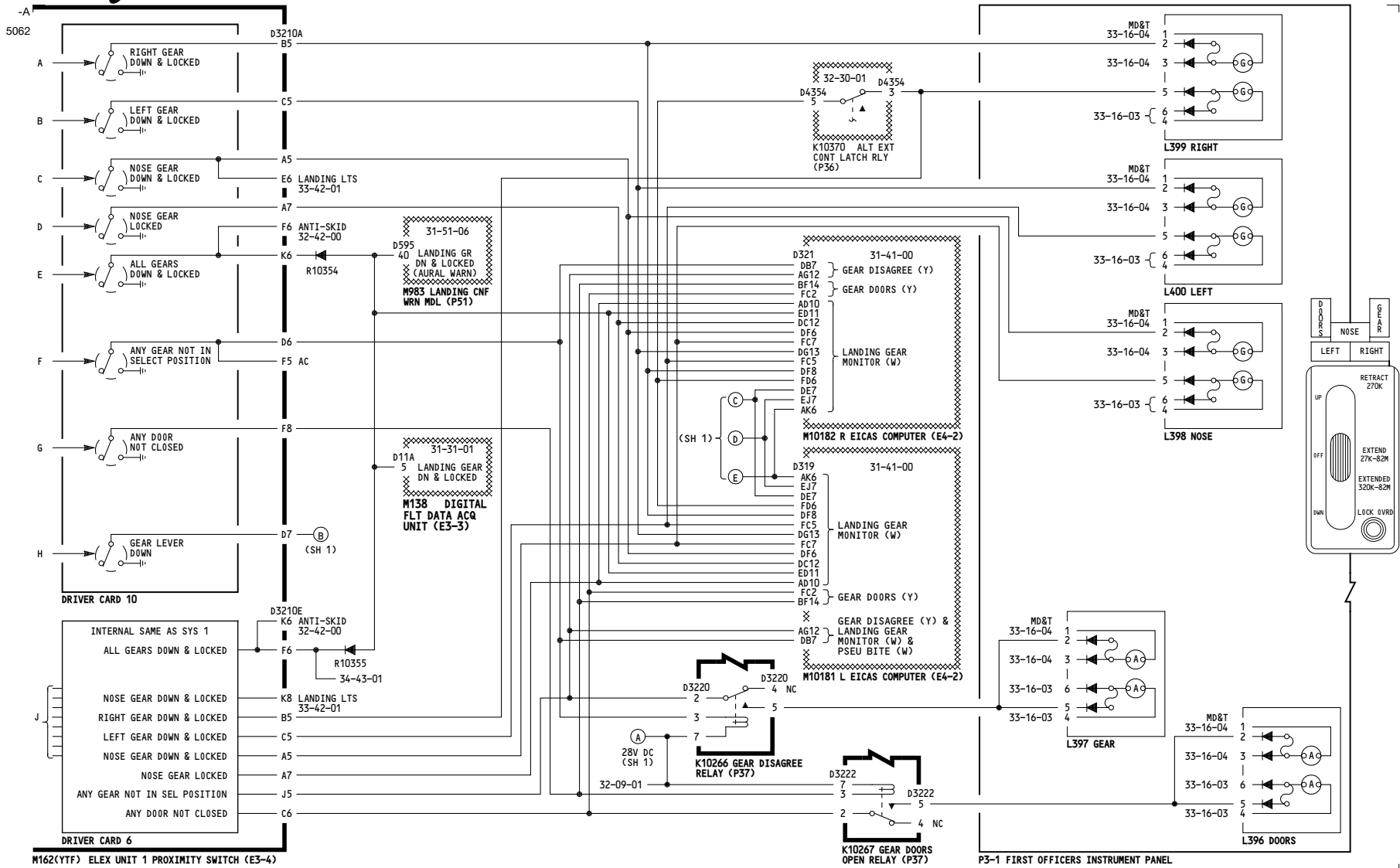
002

**LANDING GEAR POSITION INDICATING AND WARNING**

D280N032S

**32-61-01**

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002

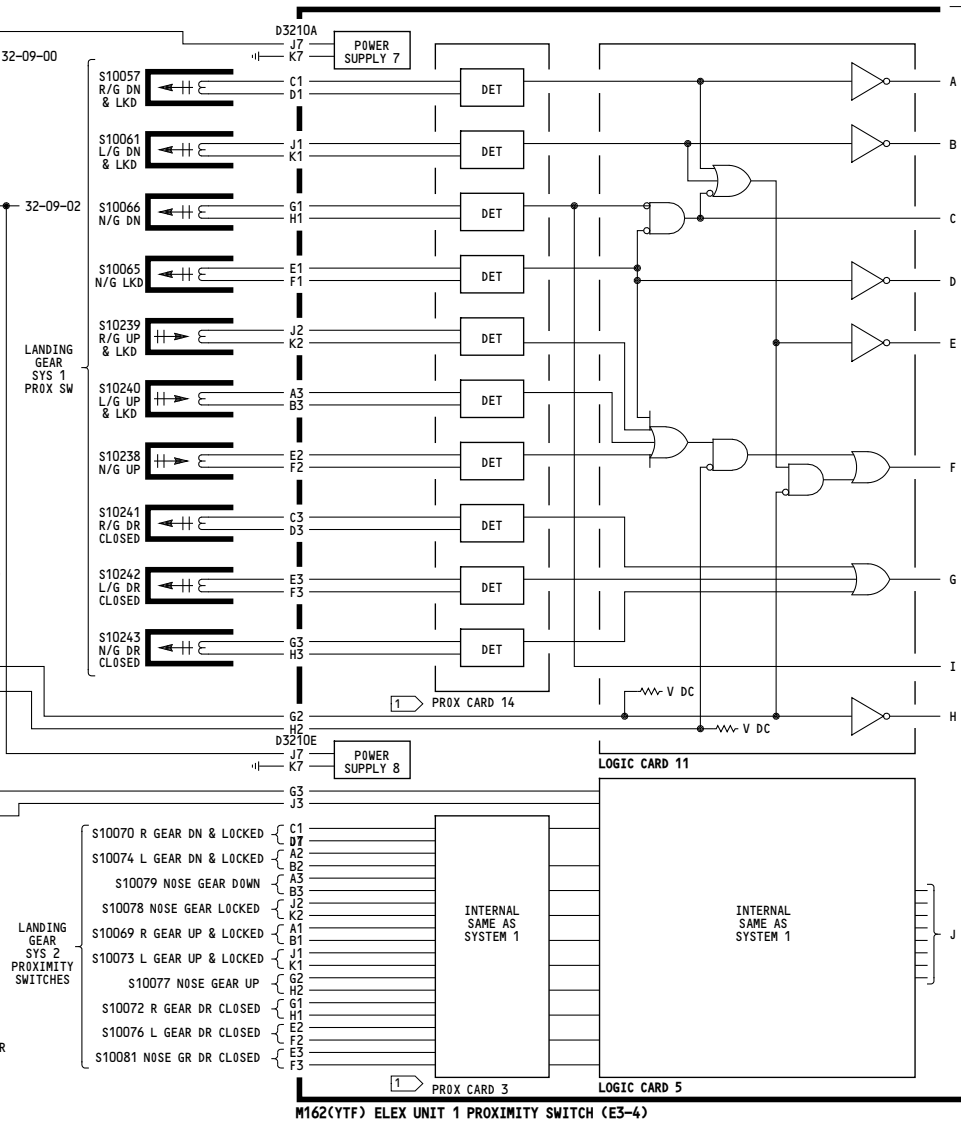
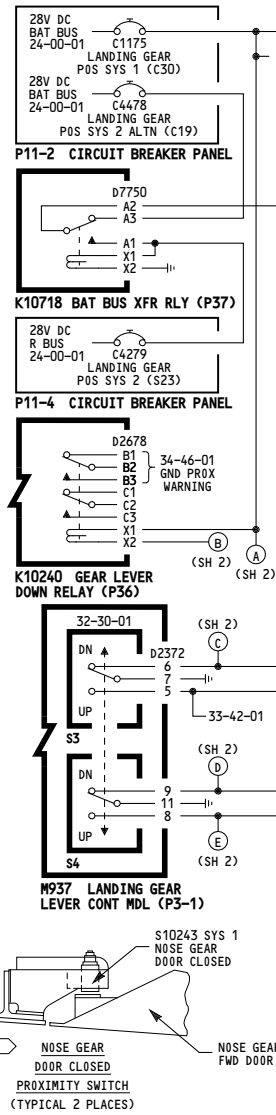
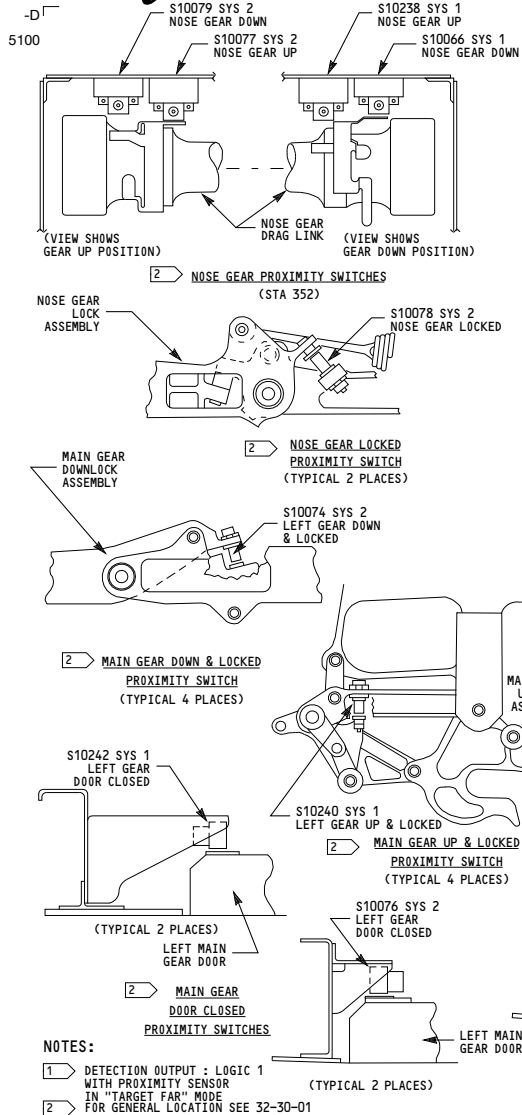
**LANDING GEAR POSITION INDICATING AND WARNING**

Incorporates 34-0200

D280N032S

**32-61-01**

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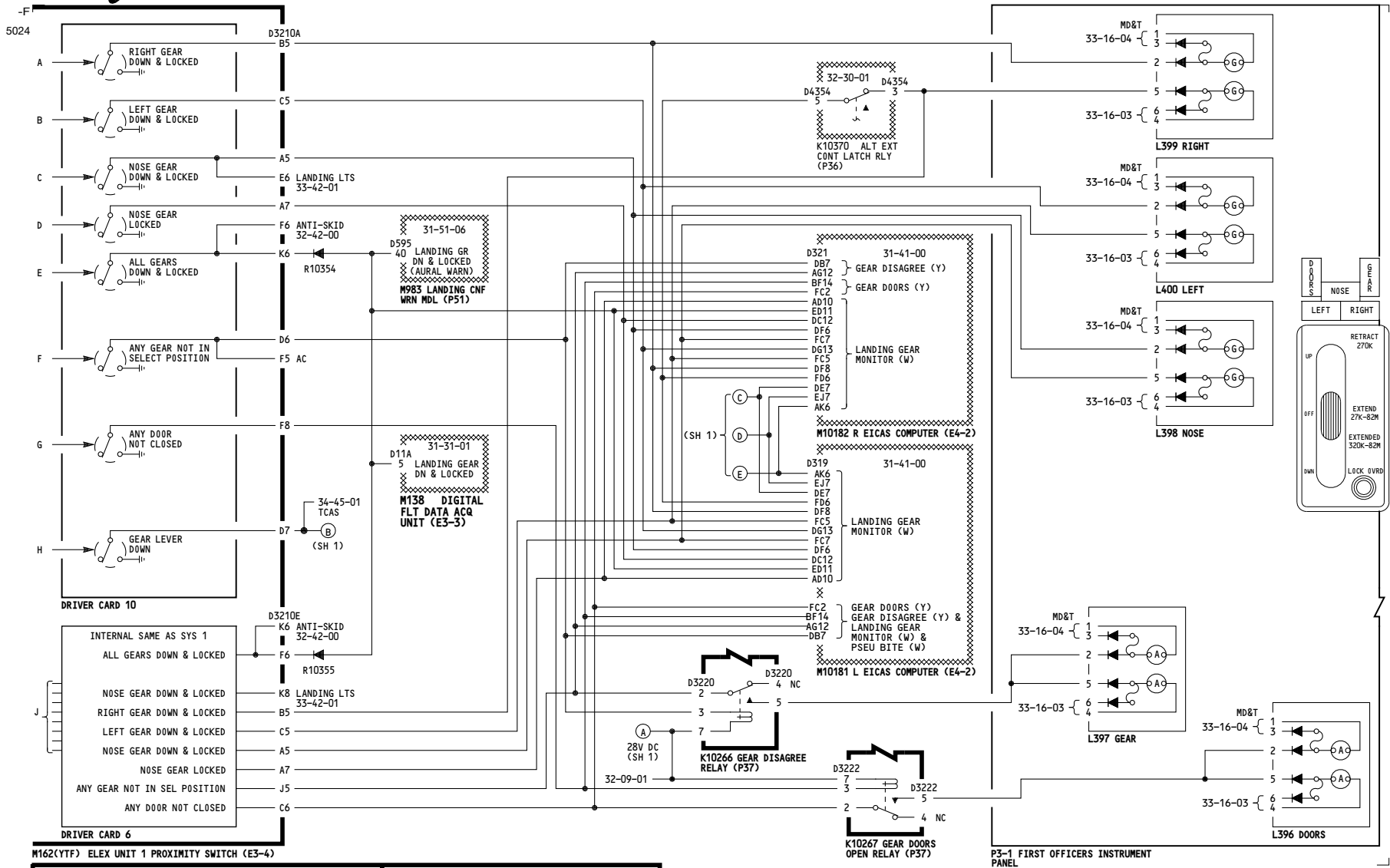


003-099

**LANDING GEAR POSITION INDICATING AND WARNING**

D280N032S

**32-61-01**



M162(YTF) ELEX UNIT 1 PROXIMITY SWITCH (E3-4)

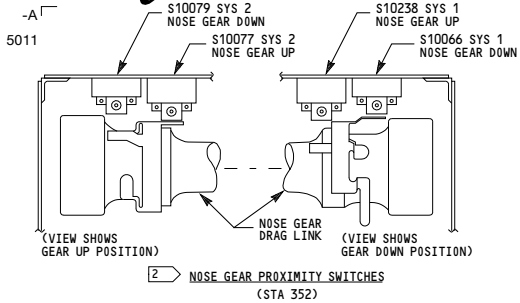
003-099

**LANDING GEAR POSITION INDICATING AND WARNING**

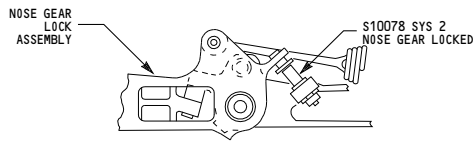
D280N032S

**32-61-01**

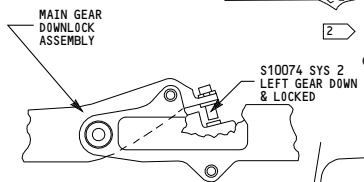




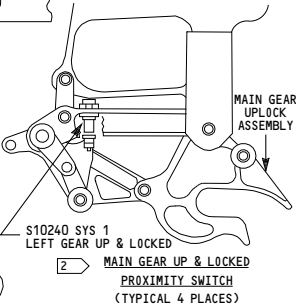
2 NOSE GEAR PROXIMITY SWITCHES (STA 352)



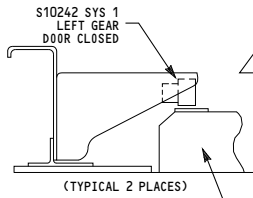
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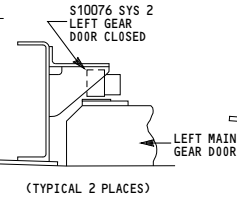
2 MAIN GEAR DOWN & LOCKED PROXIMITY SWITCH (TYPICAL 4 PLACES)



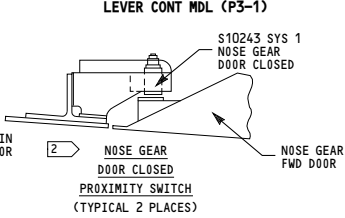
2 MAIN GEAR UP & LOCKED PROXIMITY SWITCH (TYPICAL 4 PLACES)



2 MAIN GEAR DOOR CLOSED PROXIMITY SWITCHES (TYPICAL 2 PLACES)



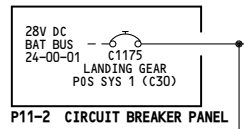
2 MAIN GEAR DOOR CLOSED PROXIMITY SWITCHES (TYPICAL 2 PLACES)



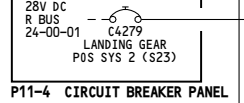
2 NOSE GEAR DOOR CLOSED PROXIMITY SWITCH (TYPICAL 2 PLACES)

1 DETECTION OUTPUT : LOGIC 1 WITH PROXIMITY SW SENSOR IN "TARGET FAR" MODE FOR GENERAL LOCATION SEE 32-30-01

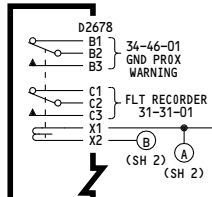
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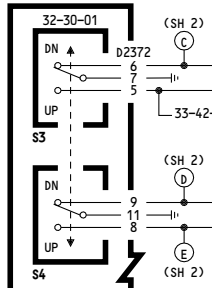
P11-2 CIRCUIT BREAKER PANEL



P11-4 CIRCUIT BREAKER PANEL



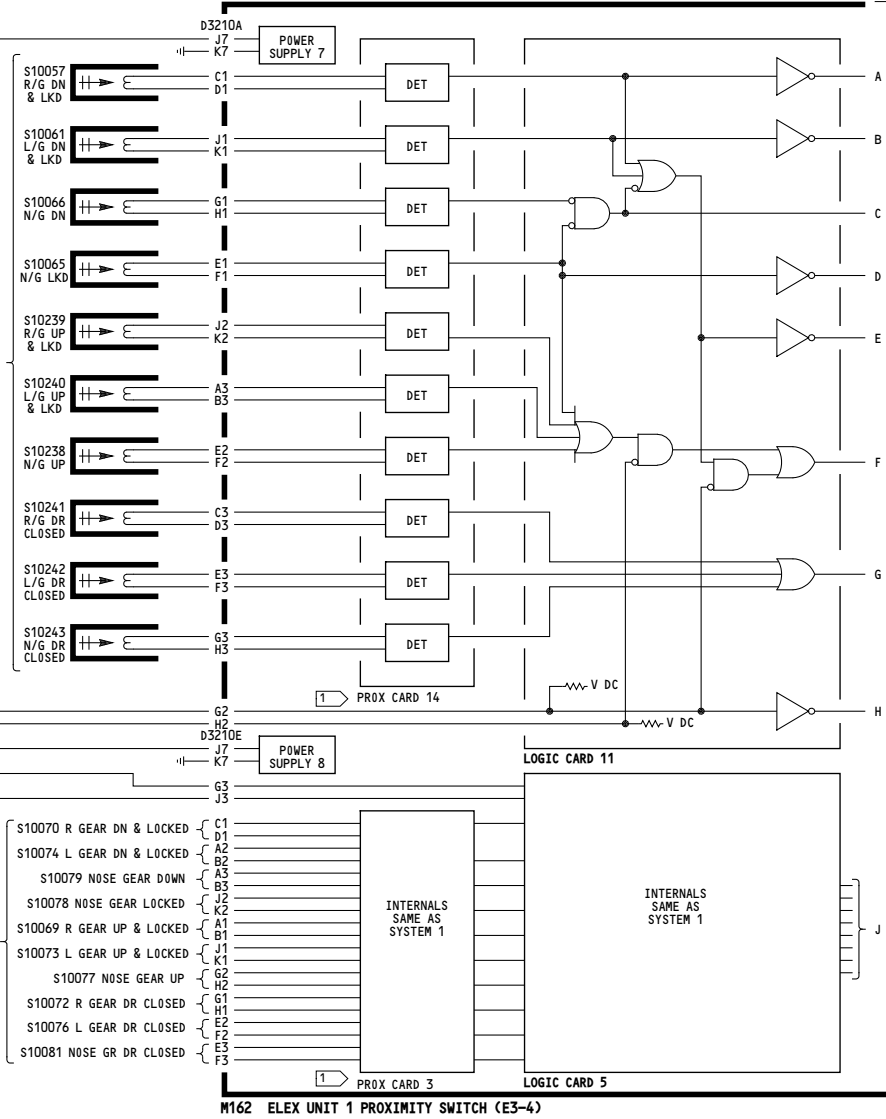
K10240 GEAR LEVER DOWN RELAY (P36)



M937 LANDING GEAR LEVER CONT MDL (P3-1)

LANDING GEAR SYS 1 PROX SW

LANDING GEAR SYS 2 PROXIMITY SWITCHES



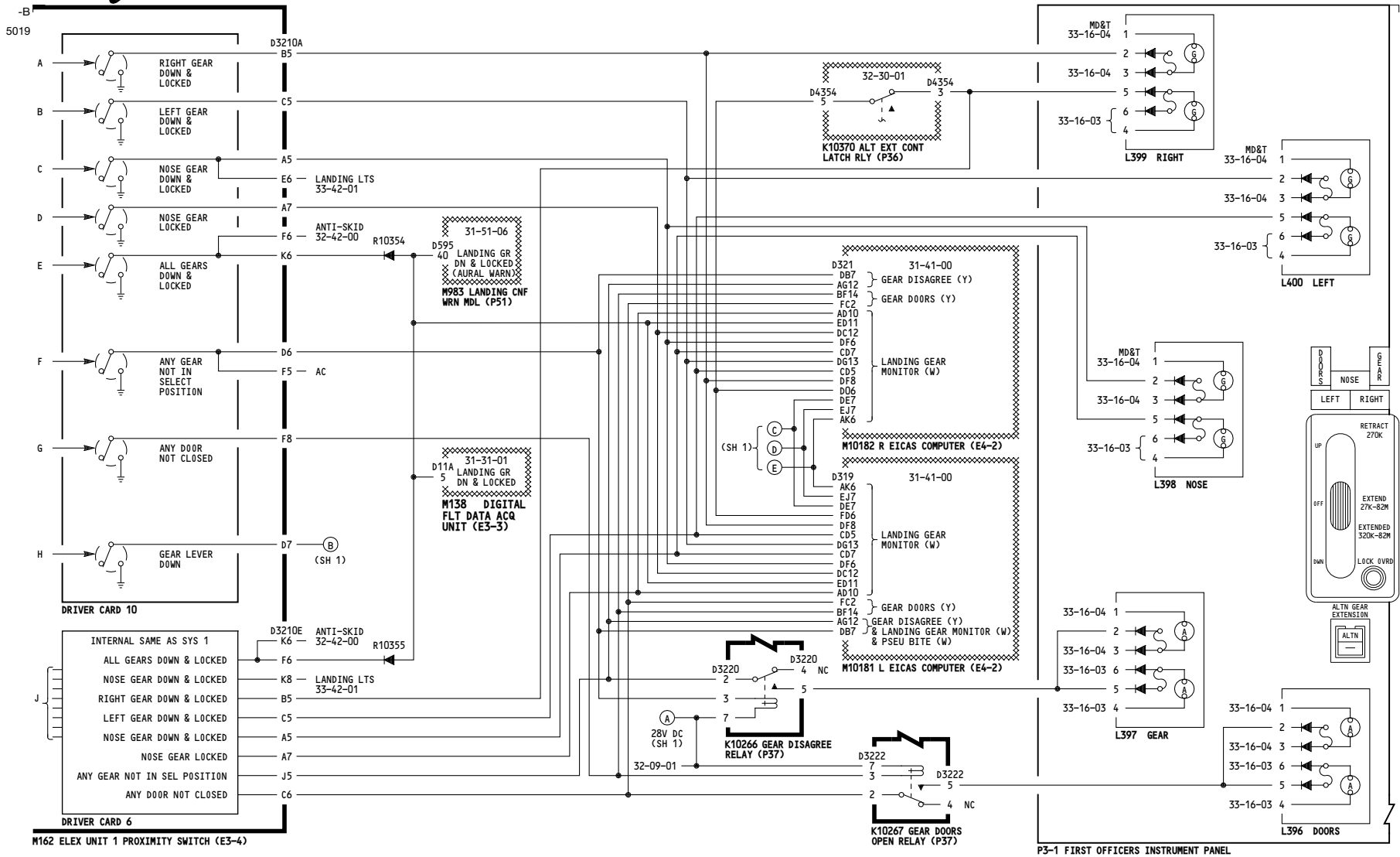
M162 ELEX UNIT 1 PROXIMITY SWITCH (E3-4)

115-199

**LANDING GEAR POSITION INDICATING AND WARNING**

D280N032S

**32-61-01**



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**LANDING GEAR POSITION INDICATING AND WARNING**

D280N032S

**32-61-01**