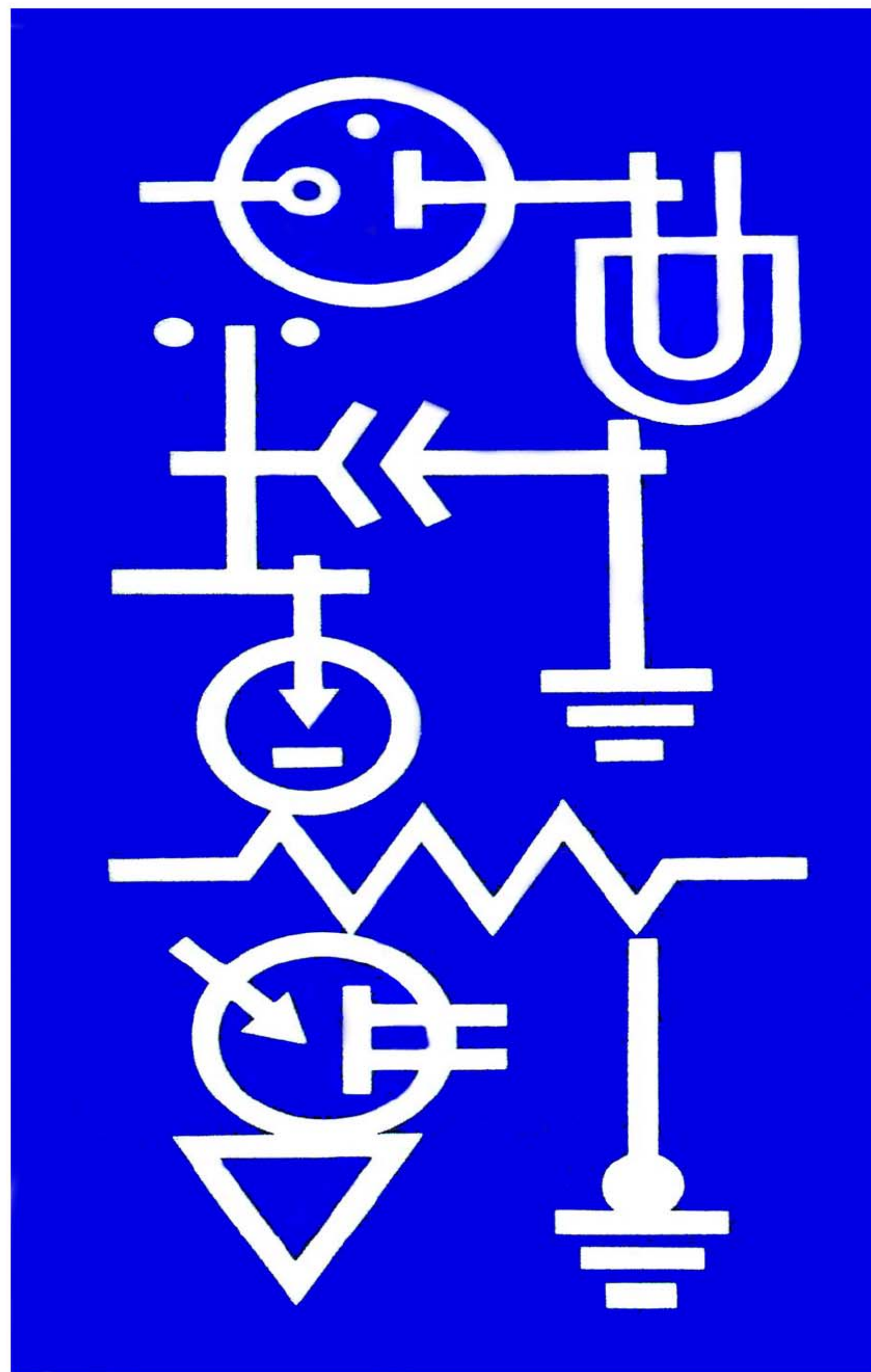




# 1978 Truck Wiring Diagrams

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Covers Models

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**F100-350 Series**

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## **1978 Ford Truck Wiring Diagrams (Bronco, Econoline, F100-350 Series)**

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**ISBN: 1-60371-206-2**

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## How to Print Wiring Diagram Pages

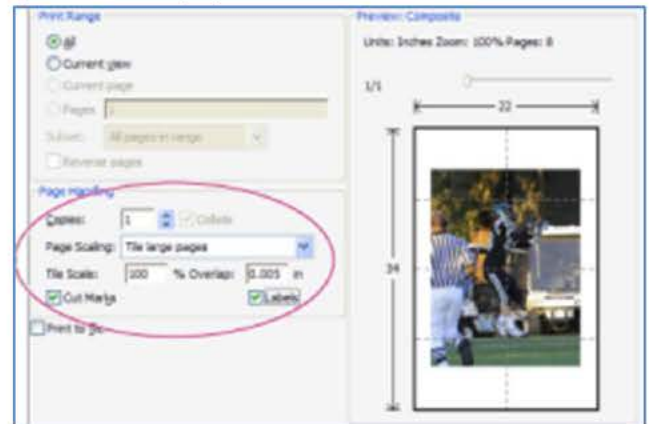
Many of the original Ford wiring manuals were created in a very large format (11x17, 17x24, and 17x36) making it difficult to print on a standard home printer. Some printers will print only a portion of the entire page, while others will shrink the page into an unreadable format. However, Adobe Reader has the ability to print sections (known as Tiles) of the page onto standard 8.5x11 paper. Please use the steps below to print these wiring diagrams.



You can print a large format document, such as these wiring diagrams, by splitting the page across multiple sheets of paper (called "tiling"). The tiling option calculates how many sheets of paper are needed. You can adjust the size of the original to best fit the paper and specify how much each "tile" overlaps. You can then piece together the tiles.

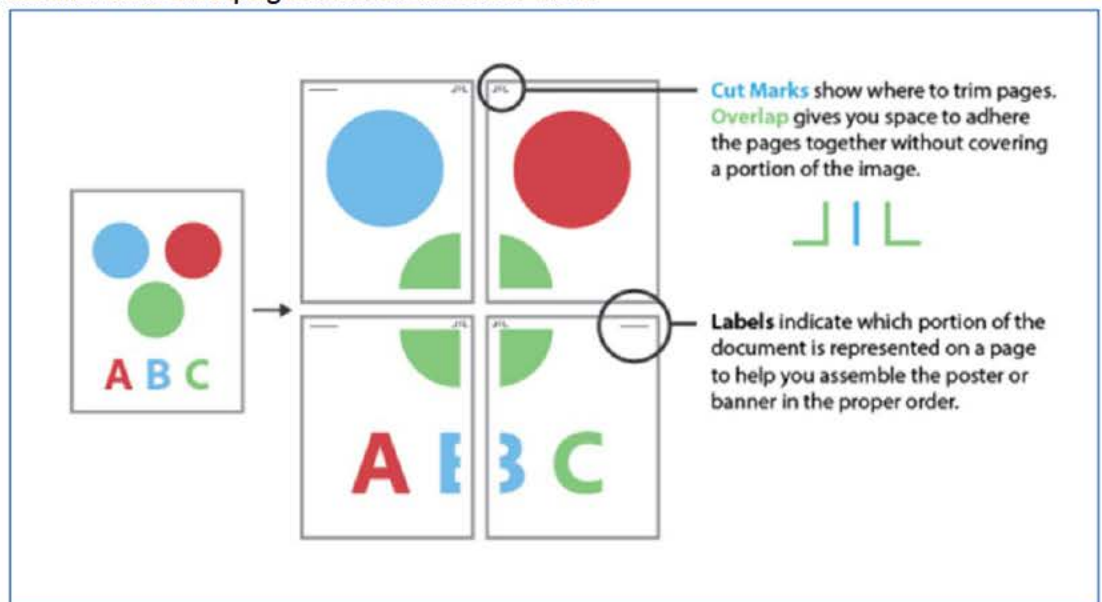
1. Choose File > Print.
2. From the Page Scaling pop-up menu, select one of the following options:  
**Tile Large Pages** Tile only the pages that are larger than the paper.  
**Tile All Pages** Tile all the pages in the PDF file.

**Note:** If the tile options are not in the menu, make sure that the following options are not selected in the Advanced Print dialog box: Print As Image or, for Acrobat only, Separations or In-RIP Separations. Also check your version of Reader. Reader 9 does not support tiling.



3. Set the following options as needed:  
**Tile Scale** Scales the pages by the amount you specify.  
**Overlap** Determines the amount each tile overlaps adjacent tiles.  
**Cut Marks** Adds guide marks to each page to help you trim the overlap.  
**Labels** Adds the filename and page number on each "tile".

4. Click OK or Print.



## How to Print a Portion of a Wiring Diagram



You can print a portion of a page in a PDF. The Snapshot Tool lets you select just the area you want to print. The area can be text, graphics, or both. You can print the selected area full size or resize it to fit the paper.

1. Open the PDF in Adobe Reader or Adobe Acrobat.

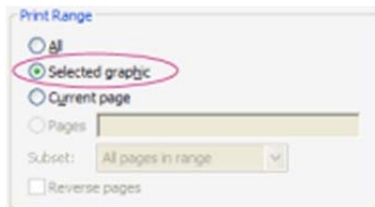
2. (Acrobat X/Reader X) Choose Edit > Take A Snapshot.

(Acrobat 9/Reader 9) Choose Tools > Select & Zoom > Snapshot Tool.

3. Drag a rectangle around the area you want to print.

4. Choose File > Print.

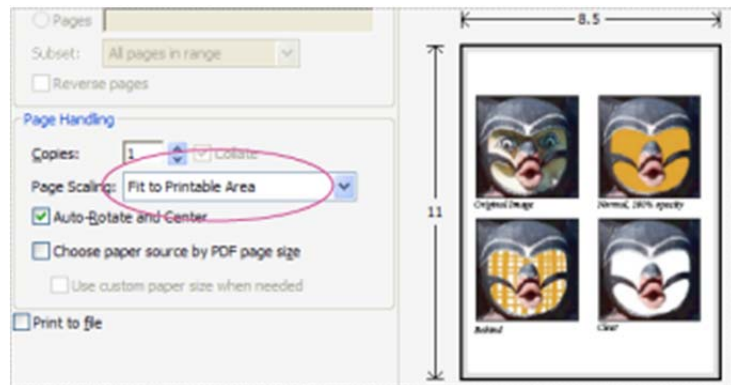
5. Make sure that the **Selected Graphic** option is selected in the Print Range area of the Print dialog box.



6. (Optional) To enlarge the selected text or graphic to fit the sheet of paper, choose Fit To Printable Area from the Page Scaling pop-up menu.

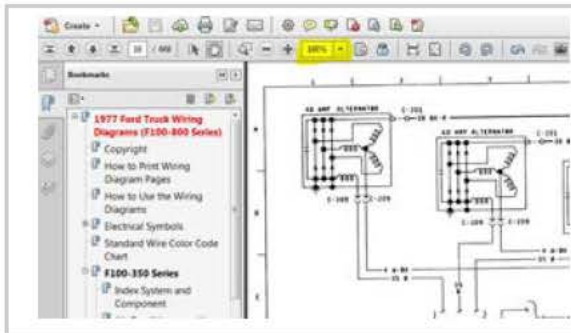
**Note:** Enlarging the area reduces the printed resolution.

7. Click OK or Print.



# How to Print a Portion of a Wiring Diagram

## Print Current View

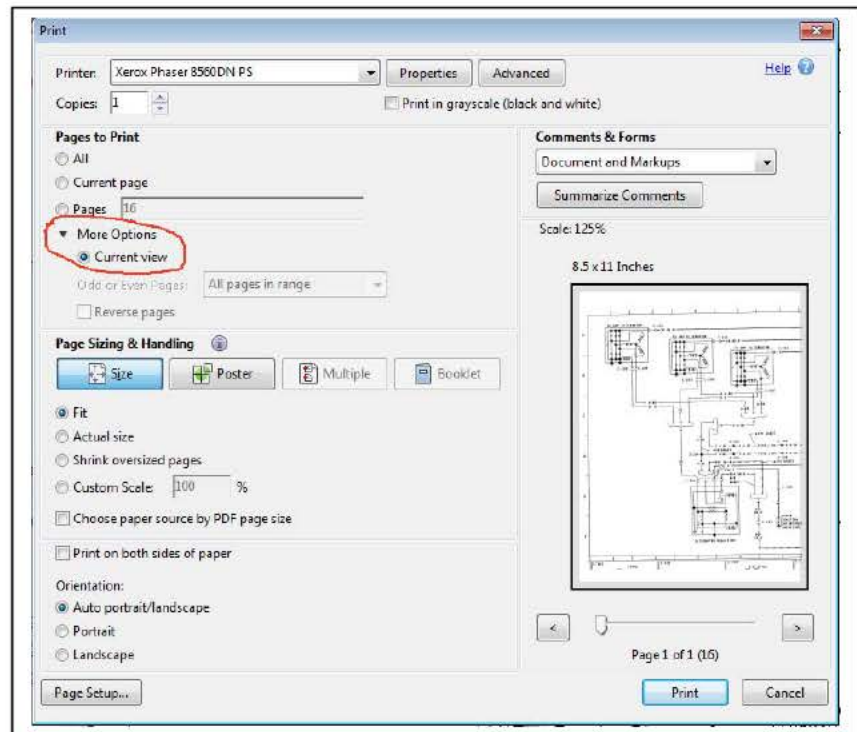


You can print just the current zoom-in view of a page in a PDF. The print **Current View** lets you print just the current view seen on the screen. The area can be text, graphics, or both. You can print the selected area full size or resize it to fit the paper.

1. Open the PDF in Adobe Reader or Adobe Acrobat.
2. Zoom into the portion of the diagram you want to print.
3. Choose File > Print.
4. Make sure the **Current View** option is selected in the Pages to Print area of the Print dialog box.

Note – To select Current view, you may need to click the “More Options” dropdown.

5. (Optional) To enlarge the selected text or graphic to fit the sheet of paper, choose Fit To Printable Area from the Page Scaling pop-up menu.



**Note:** Enlarging the area reduces the printed resolution.

6. Click OK or Print.

# 1978 TRUCK WIRING DIAGRAMS

- Bronco
- Econoline
- Parcel Delivery
- F-100-350 Series
- F-600-800 Series (Cab)
- B-F-600-800 Series (Cowl)
- C-Series
- L-Series (Line Haul)
- L-Series (City Delivery)
- CL-Series

 Ford Parts and Service Division  
Training and Publications Department

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## HOW TO USE THE WIRING DIAGRAMS

### INDEX

An INDEX is provided behind the divider for each truck series. The index page contains an alphabetically arranged list of systems and components and a bulb usage list. The index lists the location of the components on the drawing. Examples of the two types of index references are shown:

- To locate an electrical part at D-49, find the location number 49 at the top of the illustration. Then, find the letter D on the side of the illustration. Follow the number and the letter until the lines intersect. The part will be within an inch or two of the intersection.
- To locate an electrical part at PG3-D10, turn to page 3 as indicated in the lower right corner of the sheet. Then, find the number 10 at the top of the illustration and the letter D on the side of the illustration. Follow the number and the letter until the lines intersect. The part will be within an inch or two of the intersecting lines.

### BASIC INFORMATION

Generally, the power supply for all components on this drawing comes from the top of the page and over to the battery at the left.

The ground for each component is always toward the bottom of the drawing that are explained as follows:

- Ground symbols are shown in Figure 1. A ground wire connected away from the component is identified by a code G1 or G2, etc. The location of the remote ground is listed in the GROUND CODES chart and the bottom of the page.

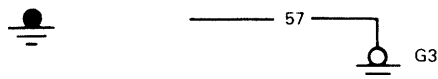


Fig. 1 — Ground Symbols

- Wire color code is shown in Figure 2. Wire color codes (by color) are listed on page 5.

640 (Red-Yellow Hash)

Fig. 2 — Wire Color Code

If a vehicle specific wire color in a connector does not match the diagram shown, it can usually be identified by comparing the other colors shown at the wire connectors. Specific wire color deviations in the manufacturing of a wire harness are usually for a short duration.

- Harness number is shown in Figure 3. The 5 or 6 digit number near the wire indicates the wire harness basic part number.

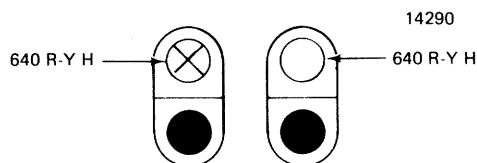


Fig. 3 — Harness Number

- Wire connector identification code is shown in Figure 4. The key for the connector codes is located at the bottom of the wiring diagram.

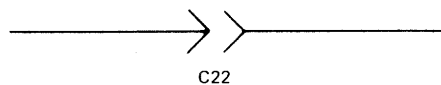


Fig. 4 — Wire Connector Code

- Male connector symbol is illustrated in Figure 5. The symbol used for the diagram and chart is shown.

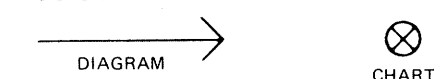


Fig. 5 — Male Connector Codes

- Female connector symbol is shown in Figure 6.



Fig. 6 — Female Connector Codes

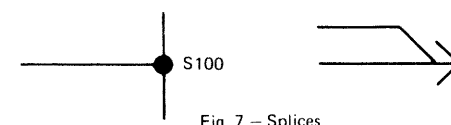


Fig. 7 — Splices

- Splice is shown in Figure 7. A splice is a common point where two wires are joined together. Location of splice is at bottom of schematic page.

- Heavy lines for the wires indicate a direct to battery feed.

- Heavy dashed lines indicate an ignition switch accessory feed.

Electrical symbols used in the schematics are illustrated and described below and on the next page.

## ELECTRICAL SYMBOLS

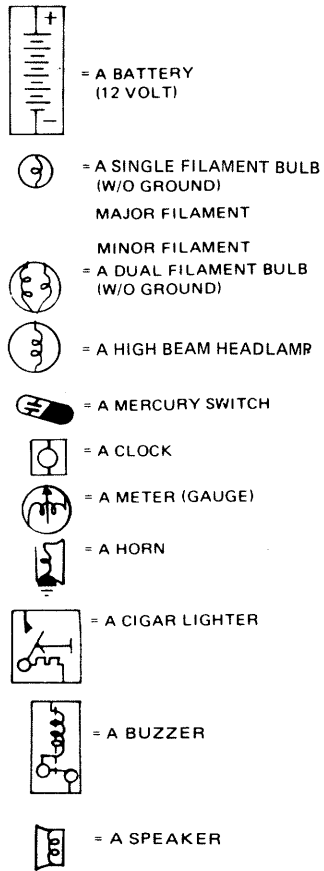
### BASIC SYMBOLS

|                                                                                       |                                                                                                                      |                                                                                       |                                                                  |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------|
|    | = A TERMINAL CONNECTION                                                                                              |    | = A FIXED RESISTANCE                                             |
|    | = A FEMALE TERMINAL                                                                                                  |    | = A VARIABLE RESISTANCE                                          |
|    | = A MALE TERMINAL                                                                                                    |    | = A THERMISTOR                                                   |
|    | = A GRAPHIC FEMALE ROUND TERMINAL, AND/OR A SWITCH CONTACT, AND/OR A STUD ON A COMPONENT.                            |    | = A POTENTIOMETER OR A RHEOSTAT, DEPENDING ON EXTERNAL CIRCUITY. |
|    | = A GRAPHICS MALE TERMINAL (STD.)                                                                                    |    | = A FIXED CAPACITOR                                              |
|    | = A SPLICE, AND/OR A CHASSIS CONNECTION, AND/OR A GRAPHICS EMPTY CONNECTOR CAVITY FOR A STANDARD ROUND PIN TERMINAL. |    | = A VARIABLE CAPACITOR                                           |
|    | = A GRAPHICS BIG FEMALE TERMINAL                                                                                     |    | = A HEATER AND/OR TEMPERATURE SENSITIVE ELEMENT                  |
|    | = A GRAPHICS BIG MALE TERMINAL                                                                                       |    | = VARIOUS SIZE FUSES (USED WITH FUSE PANELS)                     |
|    | = A GRAPHICS EMPTY CONNECTOR CAVITY FOR A BIG ROUND TERMINAL.                                                        |    | = AN INLINE FUSE & HOLDER                                        |
|   | = A GRAPHICS ARCLESS FEMALE TERMINAL                                                                                 |   | = A CIRCUIT BREAKER (FUSE PANEL MOUNTED) (SELF RE-SETTABLE)      |
|  | = A GRAPHICS ARCLESS MALE TERMINAL                                                                                   |  | = A CIRCUIT BREAKER (FUSE PANEL MOUNTED) (MANUALLY RE-SETTABLE)  |
|  | = A GRAPHICS EMPTY CONNECTOR CAVITY FOR ARCLESS TERMINALS.                                                           |  | = AN INLINE CIRCUIT BREAKER (SELF RE-SETTABLE)                   |
|  | = A WIRE TERMINATION                                                                                                 |  | = A COIL AND/OR INDUCTOR (W/O IRON CORE)                         |
|  | = AN EYELET TERMINAL GROUND                                                                                          |  | = A COIL AND/OR INDUCTOR (WITH IRON CORE)                        |
|  | = A CHASSIS GROUND                                                                                                   |  | = A DIODE                                                        |
|  | = A SINGLE EYELET CONNECTION                                                                                         |  | = A SILICON CONTROL RECTIFIER                                    |
|  | = AN EYELET CONNECTION TO A STUD, OR A SERIES OF EYELET CONNECTIONS.                                                 |  | = A ZENER DIODE                                                  |
|  | = WIRE SHIELD                                                                                                        |  | = AN INLINE DIODE                                                |
|  | = JUNCTION BLOCKS                                                                                                    |  | = A TRANSISTOR (PNP)                                             |
|  | 1 = SINGLE TERMINAL                                                                                                  |  | = A TRANSISTOR (NPN)                                             |
|  | 2 = DOUBLE TERMINAL                                                                                                  |                                                                                       |                                                                  |
|  | 3 = DOUBLE TERMINAL WITH BUSS BAR                                                                                    |                                                                                       |                                                                  |
|  | = MOMENTARY SWITCH CONTACT                                                                                           |                                                                                       |                                                                  |
|  | = DISTRIBUTOR SWITCH CONTACT                                                                                         |                                                                                       |                                                                  |
|  | = BREAK BEFORE MAKE SWITCH WIPER (THREE OR MORE POSITIONS)                                                           |                                                                                       |                                                                  |
|  | = MAKE BEFORE BREAK SWITCH WIPER (THREE OR LESS POSITIONS)                                                           |                                                                                       |                                                                  |
|  | = HINGED PALL SWITCH WIPER (THREE OR LESS POSITIONS)                                                                 |                                                                                       |                                                                  |
|  | = A PUSH OR PULL SWITCH WIPER                                                                                        |                                                                                       |                                                                  |

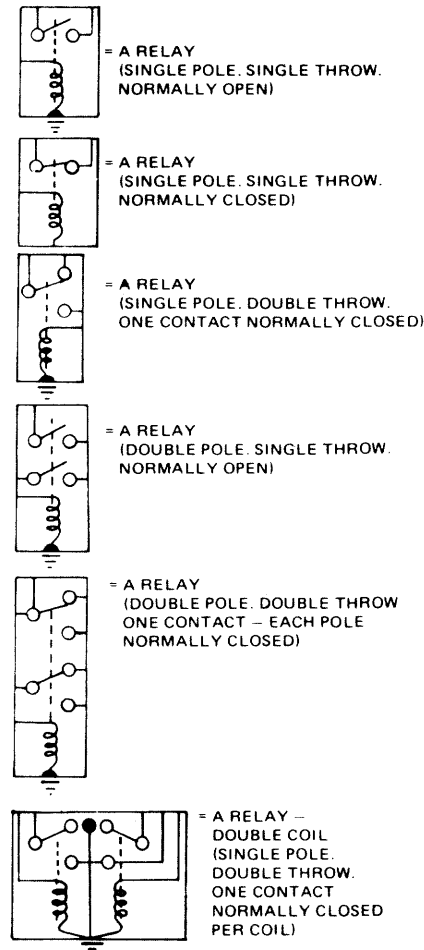
# ELECTRICAL SYMBOLS

## COMPONENT SYMBOLS

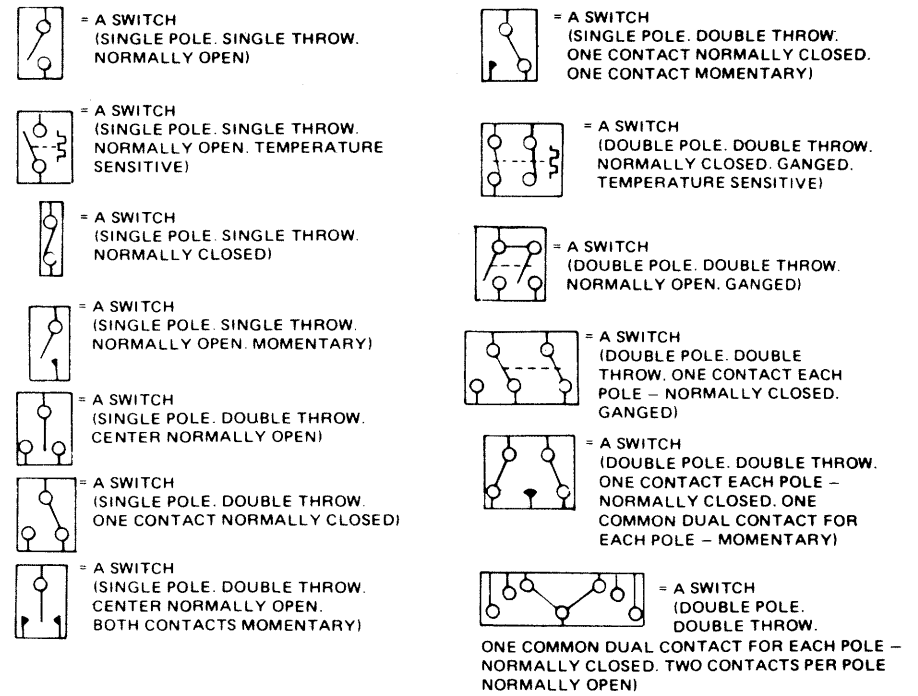
### MISCELLANEOUS COMPONENTS



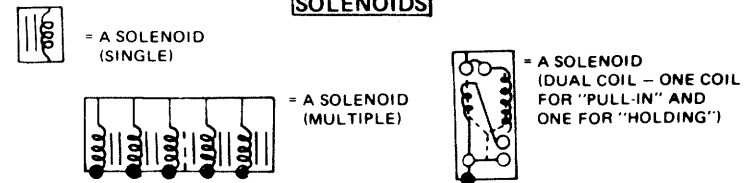
### RELAYS



### HINGED PALL SWITCHES

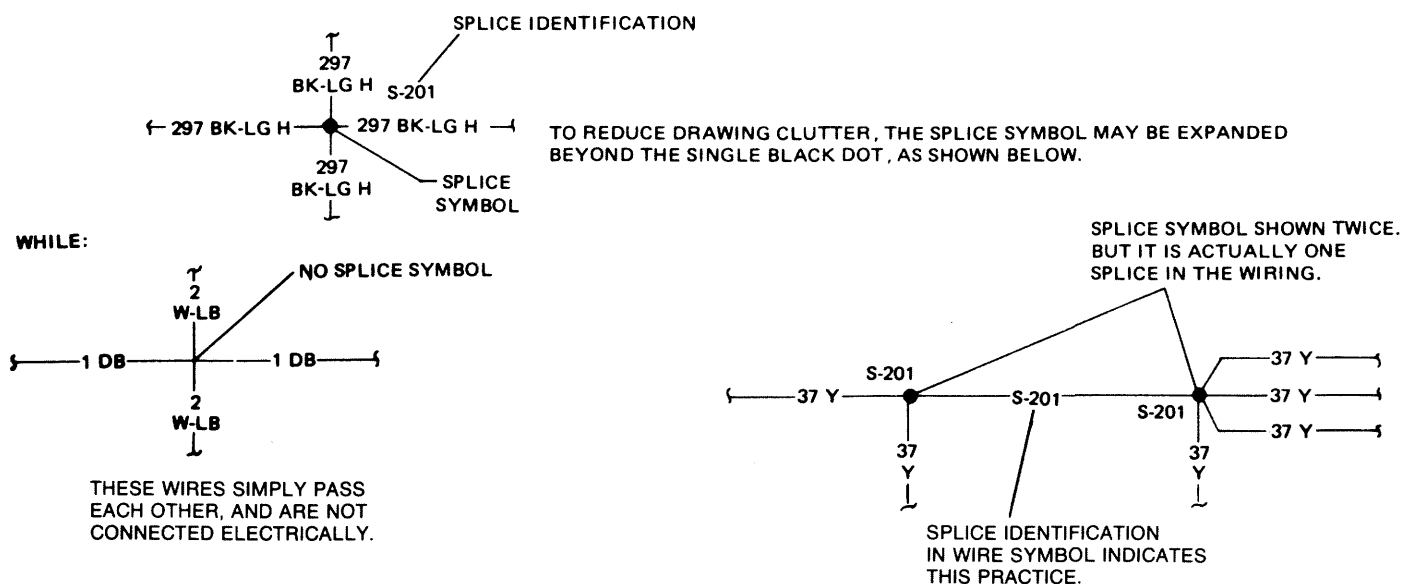


### SOLENOIDS

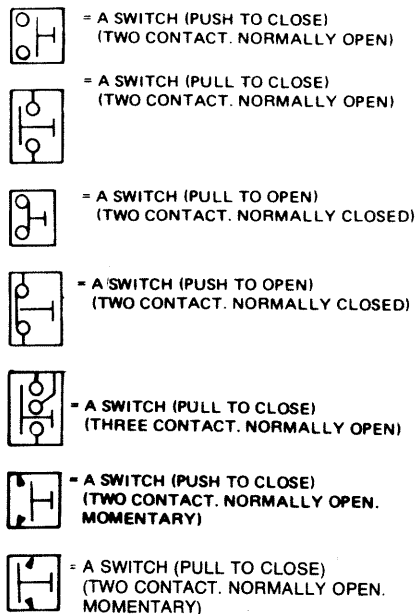


### SPLICES

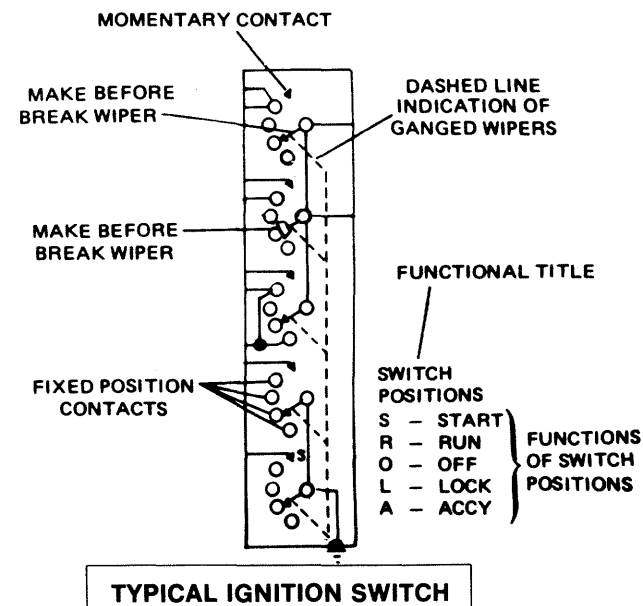
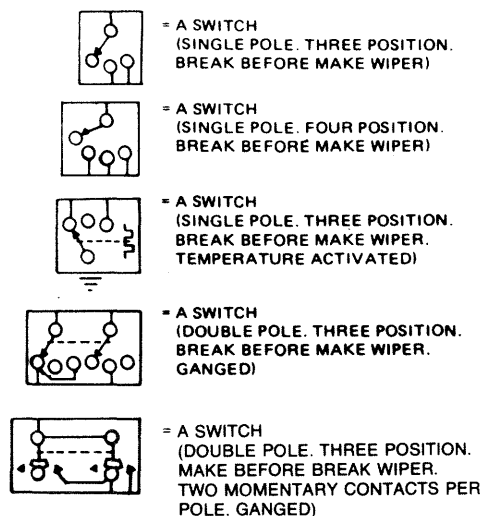
SPLICED WIRES SHALL BE REPRESENTED BY:



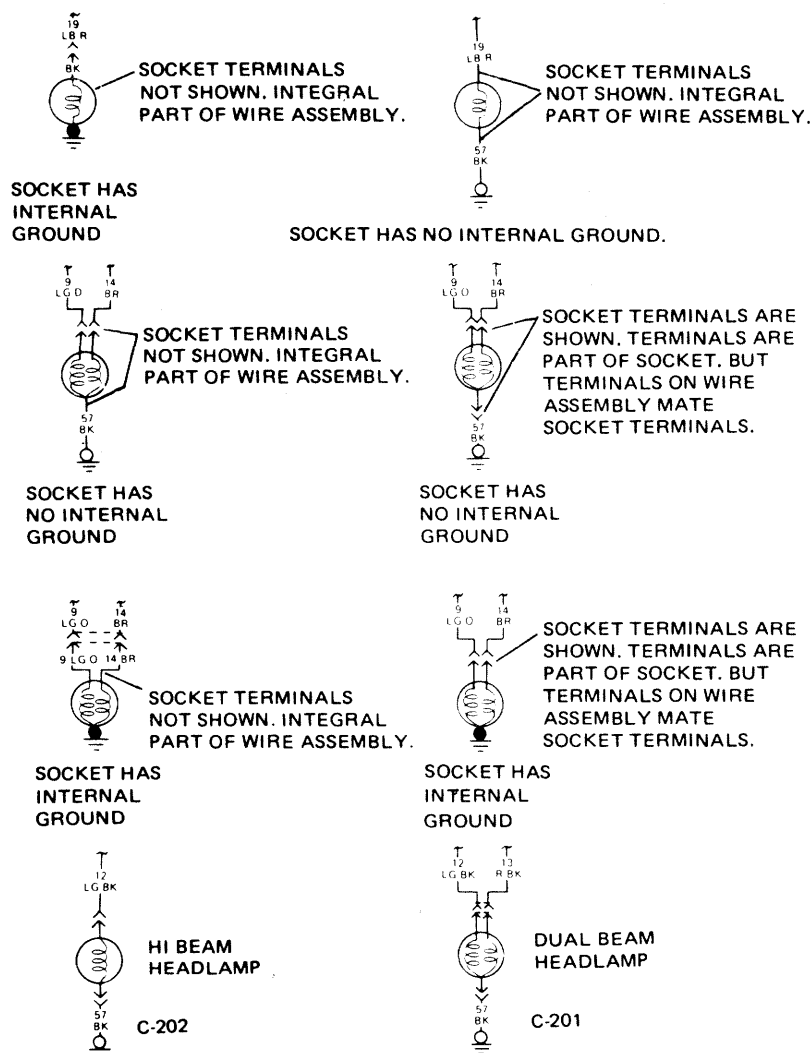
## PUSH-PULL SWITCHES



## MULTIPLE POSITION SWITCHES

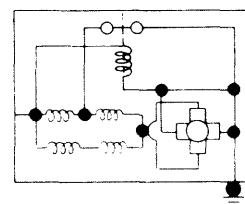
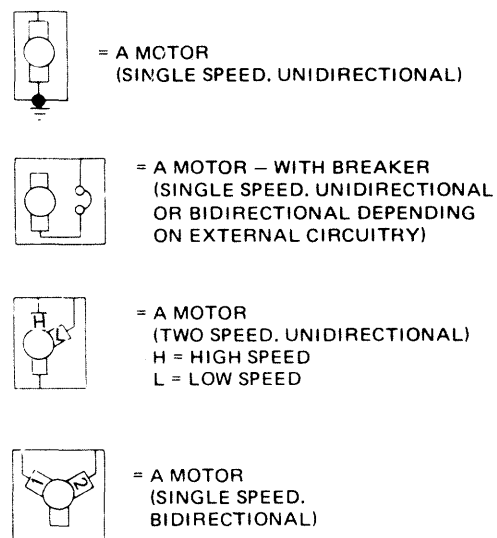


## SOCKETS



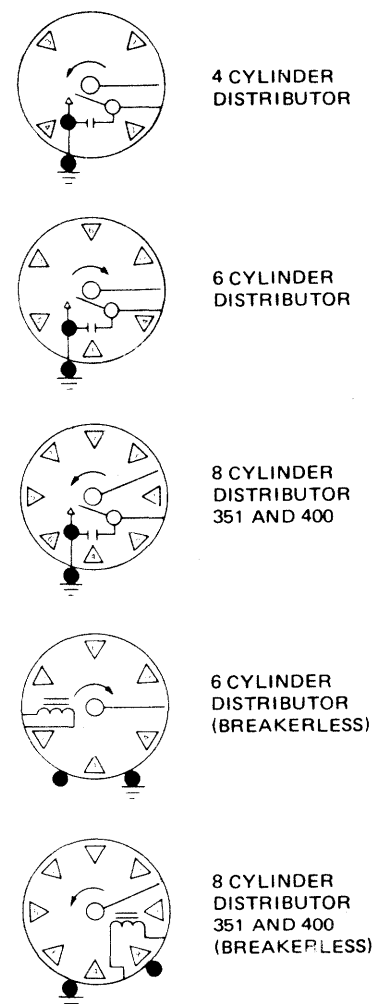
HEADLAMPS DO NOT HAVE SOCKETS.  
AND ARE SHOWN AS ABOVE.

## VARIOUS MOTOR TYPES



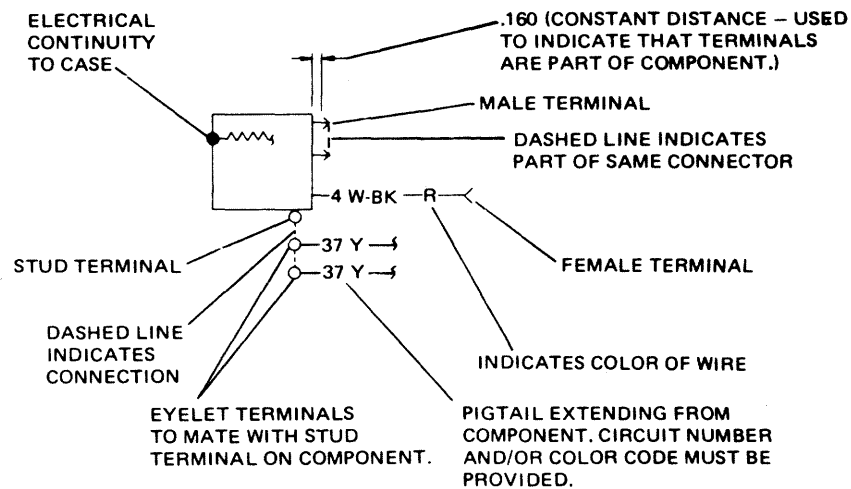
TYPICAL STARTER MOTOR  
(FOUR POLE. UNIDIRECTIONAL)

## TYPICAL DISTRIBUTORS

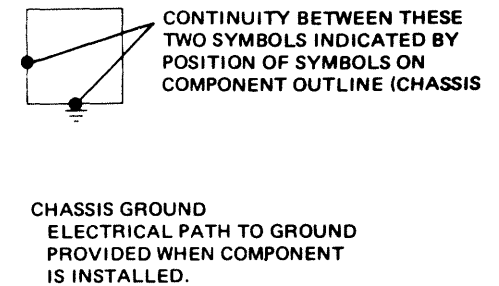
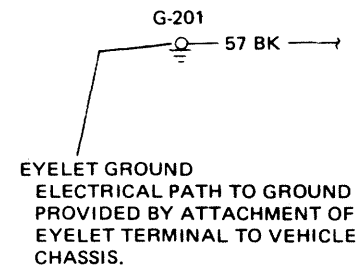


# ELECTRICAL SYMBOLS

## COMPONENT TERMINATIONS



## GROUND INDICATIONS



## TERMINALS AND CONNECTORS

AS USED ON THE DIAGRAMS, INDIVIDUAL TERMINALS SHALL BE REPRESENTED BY:

- A. → MALE
- B. ← FEMALE
- C. ○ EYELET

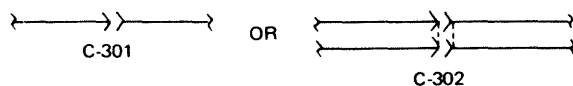
TERMINALS PHYSICALLY LOCATED IN THE SAME CONNECTOR SHELL MAY BE REPRESENTED SEPARATELY ON THE DIAGRAM. I.E.

→ C-201

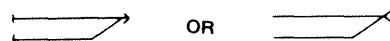
OR DESIGNATED AS BEING IN THE SAME CONNECTOR SHELL. I.E.

→ C-201 DASHED LINE INDICATES TERMINALS ARE IN SAME CONNECTOR SHELL.

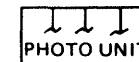
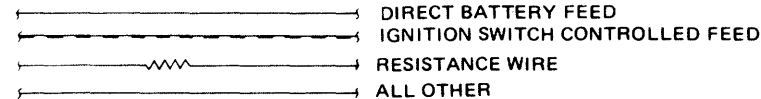
MATING TERMINALS ARE, THEREFORE, REPRESENTED AS:



TWO WIRES PHYSICALLY ATTACHED TO A SINGLE TERMINAL ARE REPRESENTED BY:



## WIRE TYPES



TYPICAL EXAMPLES OF COMPONENTS WITH UNDEFINED INTERNALS.

USED IN CASES WHERE COMPONENTS ARE NOT SERVICEABLE AND ARE CONSIDERED REPLACEABLE ONLY. AND INTERNAL CIRCUITRY IS NOT CONSIDERED NECESSARY FOR CLEAR UNDERSTANDING OF ASSOCIATED WIRING AND COMPONENTS.

# STANDARD WIRE COLOR CODE CHART

| CIRCUIT | DESCRIPTION                                                | COLOR                | CIRCUIT | DESCRIPTION                                                               | COLOR               |
|---------|------------------------------------------------------------|----------------------|---------|---------------------------------------------------------------------------|---------------------|
| 1       | HORN SWITCH TO HORN RELAY                                  | BLUE-YELLOW STRIPE   | 96      | WINDSHIELD WIPER CONTROL SW. TO W/S WIPER MOTOR GRND.                     | ORANGE-BLACK STRIPE |
| 2       | TURN SIGNAL SW. TO RH FRONT TURN SIGNAL LAMP               | WHITE-BLUE STRIPE    | 98      | "A" TERM. IGN. SW. TO ALT. REG. "IGN." TERM                               | BLACK               |
| 3       | TURN SIGNAL SWITCH TO LH FRONT TURN SIGNAL LAMP            | GREEN-WHITE STRIPE   | 99      | CONTROL SWITCH TO IGNITION SWITCH                                         | BLACK               |
| 4       | ALTERNATOR REG. "S" TERM. TO ALTERNATOR "S" TERM.          | WHITE-BLACK STRIPE   | 100     | CONTROL SWITCH TO VOLTAGE REGULATOR                                       | BLACK-RED STRIPE    |
| 5       | ENGINE BRAKE SWITCH "ON" TO FUSE PANEL                     | RED-BLACK STRIPE     | 101     | REMOTE CONTROL MIRROR SWITCH FEED                                         | GRAY                |
| 6       | HORN RELAY TO HORN                                         | YELLOW-GREEN STRIPE  | 102     | REMOTE CONTROL MIRROR SWITCH TO CONTROL UNIT                              | PURPLE              |
| 7       | ENGINE BRAKE SWITCH "OFF" TO CLUTCH SWITCH                 | GREEN                | 103     | REMOTE CONTROL MIRROR SWITCH TO CONTROL UNIT                              | BLACK               |
| 8       | IGNITION SWITCH TO TURN SIGNAL FLASHER                     | ORANGE-YELLOW STRIPE | 104     | REMOTE CONTROL MIRROR SWITCH TO CONTROL UNIT                              | GREEN               |
| 9       | CLUTCH SWITCH TO JUNCTION BLOCK                            | GREEN                | 109     | BATTERY TO STARTER MOTOR RELAY FEED                                       | YELLOW              |
| 10      | FUSE PANEL TO STOPLAMP SWITCH                              | GREEN-RED STRIPE     | 110     | FUEL TANK SOLENOID VALVE TO AUX. CIRC. BREAKER                            | BLACK-GREEN STRIPE  |
| 11      | HEADLAMP SWITCH TO PARKING LAMPS                           | BLACK-YELLOW STRIPE  | 112     | WARNING LAMP RELAY FEED                                                   | RED                 |
| 12      | HEADLAMP DIMMER SWITCH TO HIGH BEAMS                       | GREEN-BLACK STRIPE   | 113     | STARTER MOTOR TO STARTER MOTOR RELAY                                      | YELLOW-BLACK STRIPE |
| 13      | HEADLAMP DIMMER SWITCH TO LOW BEAMS                        | RED-BLACK STRIPE     | 117     | DOOR LOCK MOTOR (LOCK)                                                    | PINK-BLACK STRIPE   |
| 15      | HEADLAMP SWITCH TO HEADLAMP DIMMER SWITCH                  | RED-YELLOW STRIPE    | 118     | HEATER RELAY TO HEATER CIRC. BREAKER                                      | RED                 |
| 16      | IGNITION SWITCH TO IGNITION COIL "BATT." TERMINAL          | RED-GREEN STRIPE     | 119     | DOOR LOCK SWITCH (LOCK)                                                   | PINK-YELLOW STRIPE  |
| 17      | LOW OIL PRESSURE WARNING LAMP TO LOW OIL PRESS. SNDG. UNIT | WHITE                | 120     | CIRCUIT BREAKER (POWER & CHARGING) TO FUSE PANEL                          | BLACK               |
| 18      | AUX. CIRC. BREAKER TO GLOVE BOX LAMP                       | BLACK-BLUE STRIPE    | 121     | DOOR LOCK SWITCH (UNLOCK)                                                 | PINK-GREEN STRIPE   |
| 19      | HEADLAMP SWITCH TO INSTRUMENT PANEL LAMPS                  | BLUE-RED STRIPE      | 122     | DOOR LOCK MOTOR (UNLOCK)                                                  | PINK-ORANGE STRIPE  |
| 21      | BATTERY TO IGNITION SWITCH FEED                            | YELLOW               | 128     | STARTER MOTOR RELAY TO STARTER MOTOR                                      | BLACK               |
| 22      | BRAKE FEED                                                 | BLUE-BLACK STRIPE    | 129     | GLOW PLUG C.B. TO GLOW PLUG SW.                                           | GREEN               |
| 23      | CIRCUIT BREAKER TO VOLTAGE DIVIDER                         | ORANGE               | 130     | ACCESSORY RELAY "ARM./TERM." TO ACCY. TERM. OF FUSE PANEL                 | YELLOW              |
| 24      | ALTERNATOR OUTPUT (24 VOLTS) TO STARTER MOTOR              | BLUE-YELLOW STRIPE   | 132     | MOTOR TO GROUND (2 SPEED AXLE)                                            | GREEN               |
| 25      | JUNCTION BLOCK TO HEADLAMP SWITCH                          | BLACK-ORANGE STRIPE  | 136     | TWO SPEED AXLE SWITCH TO TWO SPEED ADAPTER                                | BLACK               |
| 26      | ALTERNATOR GROUND (NEG. TERM.)                             | BLACK-RED STRIPE     | 137     | FUSE PANEL TO RADIO                                                       | YELLOW-BLACK STRIPE |
| 27      | WINDSHIELD WIPER CIRC. BRKR. TO W/S WIPER SWITCH           | RED                  | 138     | FUSE PANEL TO BACK UP LAMP SWITCH                                         | WHITE-PURPLE STRIPE |
| 28      | WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR             | BLACK-WHITE STRIPE   | 139     | IGN. SW. "ACC." TERM. TO BATT. TERM. OF CIRCUIT BRKR.                     | GREEN-YELLOW STRIPE |
| 30      | IGN. SW. TO CONSTANT VOLTAGE UNIT & INDICATOR LAMPS        | BLACK-GREEN STRIPE   | 140     | BACK UP LAMP SWITCH TO BACK UP LAMP                                       | BLACK-RED STRIPE    |
| 31      | OIL PRESS. INDICATOR TO OIL PRESS. SENDING UNIT            | WHITE-RED STRIPE     | 141     | TWO OR THREE SPD. AXLE SW. TO TWO OR THREE SPD. AXLE MTR.                 | BLACK-PINK STRIPE   |
| 32      | IGNITION SWITCH TO STARTER MOTOR RELAY                     | RED-BLUE STRIPE      | 142     | TWO OR THREE SPEED AXLE CIRCUIT BREAKER LOAD TERM. TO SPEED AXLE TERMINAL | GREEN               |
| 33      | BATTERY TO HORN RELAY                                      | YELLOW               | 143     | TWO OR THREE SPD. AXLE SW. TO TWO OR THREE SPD. AXLE MTR.                 | RED                 |
| 34      | HEADLAMP DIMMER SW. TO HIGH BEAM INDICATOR LAMP            | GREEN-BLACK STRIPE   | 144     | CIRCUIT BRKR. LOAD TERM. TO NO. 142 SPLICE (2 SPEED AXLE)                 | GREEN               |
| 35      | ALTERNATOR REGULATOR "F" TERM. TO ALTERNATOR               | ORANGE               | 145     | SPEED ADAPTOR TO NO. 141, NO. 146 SPLICE (2 SPEED AXLE)                   | BLACK               |
| 36      | ALTERNATOR REGULATOR TO RECTIFIER TERM.                    | YELLOW-BLACK STRIPE  | 146     | SHIFT MOTOR TO NO. 141, NO. 145 SPLICE (2 SPEED AXLE)                     | BLACK               |
| 37      | LOAD TERM. OF AMMETER TO ALTERNATOR OUTPUT TERM.           | BLACK-YELLOW STRIPE  | 147     | SHIFT MOTOR TO NO. 143 SPLICE (2 SPEED AXLE)                              | RED                 |
| 38      | LOAD THRU AMMETER TO BATTERY                               | BLACK-RED STRIPE     | 148     | HEADLAMP SW. TO AUTO. TRANS. IND. LAMP                                    | BLACK-BLUE STRIPE   |
| 39      | TEMP. GAGE TO TEMP. SENDING UNIT                           | RED-WHITE STRIPE     | 149     | AUX. LAMP CIRCUIT BREAKER LOAD TERM. TO AUX. LAMP FEED                    | YELLOW              |
| 40      | BATTERY TO CIGAR LIGHTER                                   | BLUE-WHITE STRIPE    | 150     | BATTERY FEED TO FUSE PANEL                                                | RED                 |
| 41      | WARNING LAMP FEED                                          | BLACK-YELLOW STRIPE  | 151     | SPEED CONTROL ON-OFF SWITCH TO AMPLIFIER                                  | BLUE-BLACK STRIPE   |
| 42      | SWITCH TO WARNING LAMP                                     | RED-WHITE STRIPE     | 152     | ALT. OUTPUT "A" TERM. TO VOLTAGE REG. "A" TERM.                           | YELLOW              |
| 43      | IGN. TERM. OF IGN. SW. TO LOW AIR BUZZER                   | ORANGE-BLUE STRIPE   | 153     | STARTER MOTOR RELAY TO FLASHER                                            | RED-WHITE STRIPE    |
| 44      | TURN SIGNAL FLASHER TO TURN SIGNAL SWITCH                  | BLUE                 | 154     | AIR TANK VALVE                                                            | RED                 |
| 45      | HOT WATER TEMP. RELAY TO HOT WATER TEMP. SENDING UNIT      | YELLOW-RED STRIPE    | 156     | AIR TANK VALVE FEED                                                       | BLUE                |
| 48      | BLIND CIRCUIT TERMINATING IN HARNESS (COLOR OPT.)          | BLACK                | 158     | KEY WARNING SWITCH TO BUZZER                                              | BLACK-WHITE STRIPE  |
| 49      | TURN SIG. SW. TO RIGHT TURN SIG. INDICATOR LAMP            | WHITE-BLUE STRIPE    | 159     | DOOR JAMB SWITCH TO BUZZER                                                | RED                 |
| 50      | TURN SIG. SW. TO LEFT TURN SIG. INDICATOR LAMP             | GREEN-WHITE STRIPE   | 160     | BUZZER TO WARNING INDICATOR RELAY                                         | WHITE               |
| 53      | COURTESY LAMP SWITCH TO COURTESY LAMP                      | BLACK-BLUE STRIPE    | 161     | IGN. SW. (ACC. TERM.) TO EMERG. BRAKE WARNING LAMP                        | GREEN               |
| 54      | FUSE PANEL TO COURTESY LAMP SWITCH                         | GREEN-YELLOW STRIPE  | 162     | EMERG. BRAKE WARNING LAMP TO EMERG. BRAKE SWITCH                          | GREEN-RED STRIPE    |
| 55      | CARGO LAMP SW. TO CARGO LAMP                               | BLACK-RED STRIPE     | 169     | OVER RIDE SWITCH TO 3 x 6 MODULE                                          | BLUE-YELLOW STRIPE  |
| 56      | WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR             | BLUE                 | 170     | CARBURETOR SOLENOID TO 3 x 6 MODULE                                       | BLUE-RED STRIPE     |
| 57      | GROUND CIRCUIT                                             | BLACK                | 171     | DISABLER SOLENOID TO 3 x 6 MODULE                                         | BLUE-BLACK STRIPE   |
| 58      | WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR             | WHITE-ORANGE STRIPE  | 172     | THROTTLE ANGLE TO 3 x 6 MODULE                                            | BLUE-WHITE STRIPE   |
| 59      | HEATED EXTERIOR MIRROR FEED                                | GREEN-PURPLE STRIPE  | 173     | THIRD GEAR SWITCH TO 3 x 6 MODULE                                         | BLUE-ORANGE STRIPE  |
| 60      | CONSTANT VOLTAGE UNIT TO GAUGE                             | BLACK-WHITE STRIPE   | 174     | VACUUM SWITCH TO 3 x 6 MODULE                                             | BLUE-GREEN STRIPE   |
| 61      | WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR             | YELLOW               | 175     | INDICATOR LAMP TO OVER RIDE SWITCH                                        | BLUE-BROWN STRIPE   |
| 63      | WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR             | RED                  | 176     | INDICATOR LAMP TO 3 x 6 MODULE                                            | BLUE-PURPLE STRIPE  |
| 65      | WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR             | GREEN                | 181     | FUSE PANEL TO HEATER BLOWER MOTOR                                         | ORANGE              |
| 66      | AIR SHIFT SWITCH TO DASH LAMP                              | BLUE                 | 182     | AIR COND. CIRC. BRKR. (LOAD TERM) TO THERMOSTAT SW.                       | BROWN-WHITE STRIPE  |
| 67      | STOP LAMP SW. TO INDICATOR LAMP                            | GREEN-WHITE STRIPE   | 183     | AIR COND. CIRC. BRKR. (LOAD TERM) TO A/C BLOWER SW. FEED                  | BROWN               |
| 68      | DEFROSTER MOTOR (FEED) TO IGN. SW. ACCY. TERM.             | ORANGE-BLACK STRIPE  | 184     | AIR COND. SW. (LOW) TO AIR COND. BLOWER MOTOR                             | RED                 |
| 69      | COIL TERM. IGN. SW. TO FUEL SOLENOID                       | RED-GREEN STRIPE     | 185     | AIR COND. SW. (HIGH) TO AIR COND. BLOWER MOTOR                            | BLACK               |
| 71      | IGNITION SWITCH TO FUSE PANEL                              | BLACK                | 188     | CIRCUIT BRKR. TO HEADLAMP SW. "BATT." TERM.                               | BLACK               |
| 72      | ENGINE ALARM RELAY (OIL PRESSURE) TO IND. LAMP             | GREEN                | 189     | TERM. BLOCK TO CIRCUIT BREAKER                                            | GREEN-YELLOW STRIPE |
| 73      | LOW AIR BUZZER TO LOW AIR BUZZER SWITCH                    | ORANGE-GREEN STRIPE  | 190     | IGNITION SW. ACCY. TERM. TO AIR COND. CIRCUIT BREAKER                     | YELLOW              |
| 74      | RELAY "H" TERMINAL TO LAMP (WATER)                         | GREEN                | 195     | EMERG. BRAKE SW. TO SIGNAL LAMP & RESISTOR GND.                           | RED                 |
| 75      | STARTER MOTOR RELAY TO SERIES PARALLEL SW. (NO. 1 TERM)    | GREEN                | 196     | ACCY. FEED FROM FUSE PANEL TO RELAY                                       | RED                 |
| 76      | MARKER LAMP FEED (NON TRACTOR) TO AUX. CIRC. BREAKER       | GREEN-RED STRIPE     | 197     | AUX. ACCY. FEED FROM RELAY                                                | RED-BLUE STRIPE     |
| 78      | CIR. BREAKER TO RH & LH MARKER LAMPS                       | BLACK-GREEN STRIPE   | 198     | BATT. TERM. OF STARTER SOLENOID TO RELAY                                  | BLACK               |
| 79      | CONTROL RECTIFIER TO ALT. REG. "IGN." TERM.                | BLUE-YELLOW STRIPE   | 199     | CIRCUIT BREAKER FEED                                                      | BLACK-ORANGE STRIPE |
| 80      | BATTERY TO ENGINE COMPARTMENT LAMP                         | GREEN-RED STRIPE     | 200     | CIRCUIT BREAKER TO SPLICE                                                 | BLUE                |
| 81      | THERMAL SW. TO BLOWER MOTOR CONTROL RLEY                   | BLACK-WHITE STRIPE   | 201     | SPLICE TO HEADLAMP SWITCH                                                 | BLUE-YELLOW STRIPE  |
| 83      | HEADLAMP SW. (REAR LAMP) TO SPEEDOMETER LAMP               | BROWN                | 203     | INTERIOR LAMP PICKUP BOX COVER                                            | WHITE-YELLOW STRIPE |
| 84      | WINDSHIELD WIPER/WASHER SW. TO FUSE PANEL                  | BLACK                | 205     | CIRC. BRKR. LOAD TERM. TO STOPLAMP WRNG. RELAY ARM. TERM.                 | GREEN               |
| 87      | IGNITION SW. ACCY. TERM. TO CIRC. BREAKER                  | RED                  | 206     | GROUND RETURN TO TOWING VEHICLE                                           | WHITE               |
| 88      | INSTR. PANEL LAMP SWITCH FEED                              | GREEN-ORANGE STRIPE  | 207     | MARKER LAMP SWITCH TO MARKER LAMPS                                        | BLACK               |
| 89      | GLOW PLUG TO GLOW PLUG SWITCH                              | BLACK-WHITE STRIPE   |         |                                                                           |                     |
| 90      | AIR PRESSURE GAUGE TO TRANSMITTER                          | ORANGE               |         |                                                                           |                     |
| 92      | ELECT. FUEL PUMP TO AUX. CIRC. BREAKER                     | GREEN-WHITE STRIPE   |         |                                                                           |                     |
| 93      | STARTER SWITCH TO ELECT. FUEL PUMP                         | BLUE                 |         |                                                                           |                     |
| 95      | WINDSHIELD WIPER CONTROL SWITCH TO GROUND                  | BLUE-YELLOW STRIPE   |         |                                                                           |                     |
|         |                                                            | WHITE                |         |                                                                           |                     |

# STANDARD WIRE COLOR CODE CHART (Continued)

| CIRCUIT | DESCRIPTION                                                                | COLOR               | CIRCUIT | DESCRIPTION                                                       | COLOR                |
|---------|----------------------------------------------------------------------------|---------------------|---------|-------------------------------------------------------------------|----------------------|
| 208     | WATER TEMP. SW. (HOT) TO DELAY & CONTROL RELAY                             | RED-WHITE STRIPE    | 374     | STARTING MOTOR RELAY TO ENGINE USAGE INDICATOR                    | RED                  |
| 209     | STOPLAMP SW. TO RELAY                                                      | YELLOW              | 376     | HORN BUTTON TO HORN                                               | BLUE-YELLOW STRIPE   |
| 210     | INDICATOR LAMP TO SWITCH                                                   | BLUE                | 377     | AUX. CIRCUIT BRKR. TO HORN BUTTON                                 | YELLOW-BLUE STRIPE   |
| 212     | AUX. CIRC. FEED TO TRACTOR TRAILER PLUG                                    | BLUE                | 383     | EMERGENCY WARNING FLASHER FEED                                    | RED-WHITE STRIPE     |
| 213     | OIL LEVEL SENDER TO SIGNAL UNIT (LAMP)                                     | RED                 | 384     | FLASHER TO EMERGENCY WARNING LAMP                                 | WHITE-BLUE STRIPE    |
| 214     | SIGNAL UNIT (LAMP) TO TEMP. SIGNAL LAMP                                    | RED-BLACK STRIPE    | 385     | FLASHER TO EMERGENCY WARNING SWITCH                               | WHITE-RED STRIPE     |
| 215     | SIGNAL UNIT (LAMP) TO FUEL SIGNAL RELAY                                    | YELLOW-BLACK STRIPE | 386     | FLASHER TO EMERGENCY WARNING INDICATOR                            | YELLOW               |
| 221     | IGNITION SW. "ACCY. TERM" TO HEATER TEMPERATURE SW. FD.                    | BLUE                | 388     | AUX. CIRCUIT BREAKER FEED                                         | YELLOW-RED STRIPE    |
| 222     | TEMPERATURE CONTROL SW. TO HEATER MOTOR BLOWER SW.                         | RED                 | 399     | FUSE PANEL TO HEATER BLOWER SWITCH                                | BROWN                |
| 230     | EMISSION CONTROL VALVE TO SWITCH                                           | BROWN-YELLOW STRIPE | 400     | SAFETY RELAY (LOAD TERM) TO WINDOW REGULATOR SWITCH FEED          | BLUE-BLACK STRIPE    |
| 231     | "L" TERM. VOLTAGE REG. TO ACCESSORY TERM. IGN. SW.                         | YELLOW-BLACK STRIPE | 404     | WINDOW REGULATOR SWITCH TO BACK WINDOW SWITCH                     | PURPLE-GREEN STRIPE  |
| 232     | ELECTRONIC SW. TO IGN. COIL NEG. TERM.                                     | GREEN-YELLOW STRIPE | 405     | WINDOW REGULATOR SWITCH TO BACK WINDOW SWITCH                     | PURPLE-BLUE STRIPE   |
| 233     | WINDSHIELD WASHER MOTOR TO IGN. SW.                                        | GREEN               | 407     | WINDOW REGULATOR SWITCH REAR TO LIMIT SWITCH                      | TAN-BLACK STRIPE     |
| 234     | WINDSHIELD WASHER MOTOR TO IGN. SW.                                        | BLACK               | 450     | IGN. SW. TO SEAT BELT WARNING INDICATOR LAMP FEED                 | GREEN                |
| 235     | ALTERNATOR RELAY TO ALTERNATOR REGULATOR                                   | YELLOW-BLACK STRIPE | 451     | SEAT BELT WARNING LAMP TO SEAT BELT WARNING RELAY                 | BLACK-RED STRIPE     |
| 252     | CIRCUIT BREAKER (LOAD) TO 3 SPEED AXLE SWITCH                              | GREEN               | 452     | IGN. SW. TO SEAT BELT WARNING IND. RELAY                          | GREEN-WHITE STRIPE   |
| 253     | INTERMEDIATE TERMINAL 3 SPEED AXLE SWITCH TO SOLENOID VALVE FORWARD TANDEM | RED                 | 453     | SEAT BELT WARNING IND. GRD. SW. TO S/B WRNG. IND. RELAY           | BLACK-YELLOW STRIPE  |
| 254     | HIGH TERM. 3 SPEED AXLE SW. TO SOLE. VALVE REAR TANDEM                     | BLACK               | 454     | IGN. SW. COIL TERM. TO CIRCUIT BREAKER                            | RED-GREEN STRIPE     |
| 255     | CIRCUIT BREAKER (LOAD) TO AXLE LOCKOUT DIFFERENTIAL                        | BLUE                | 455     | CIRCUIT BREAKER TO FUEL VALVE                                     | GREEN-RED STRIPE     |
| 256     | ACCESSORY TERM IGN. SW. TO 3 SPEED AXLE SWITCH                             | GREEN               | 460     | BATTERY TO HORN SWITCH                                            | YELLOW               |
| 257     | IGN. SW. "ACCY. TERM." TO BLOWER MOTOR                                     | YELLOW              | 469     | IGN. SW. ACCY. TERM. TO SEAT BELT WARNING SWITCH                  | GREEN                |
| 258     | EMERG. BRAKE WARNING LAMP TO EMERG. BRAKE SWITCH                           | BLACK               | 474     | IGNITION SW. (ACCY.) TO STOPLAMP RELAY (BATT. TERM.)              | RED                  |
| 259     | IGN. SW. TO EMERG. BRAKE WARNING LAMP                                      | BLACK-RED STRIPE    | 475     | STOPLAMP SW. TO STOPLAMP RELAY (COIL TERM.)                       | GREEN-WHITE STRIPE   |
| 260     | BLOWER MOTOR TO SWITCH — LOW                                               | RED-BLACK STRIPE    | 477     | CIRCUIT BREAKER TO FOG LAMP SWITCH                                | BLUE-BLACK STRIPE    |
| 261     | BLOWER MOTOR TO SWITCH — HIGH                                              | ORANGE-BLACK STRIPE | 478     | FOG LAMP SWITCH TO FOG LAMP                                       | GRAY                 |
| 262     | STARTER MOTOR RELAY TO IGN. COIL "I" TERM.                                 | BROWN               | 480     | HI LAMP FEED FROM HEADLAMP SWITCH TO FUSE PANEL                   | YELLOW-ORANGE STRIPE |
| 263     | CLICKER RELAY TERM. NO. 4 TO AIR VALVE ASSY.                               | RED                 | 482     | HORN SWITCH TO HORNS                                              | BLACK-YELLOW STRIPE  |
| 264     | CLICKER RELAY TERM. NO. 3 TO AIR VALVE ASSY.                               | BLUE                | 483     | INHIBITOR SWITCH TO MAKE READY SWITCH                             | YELLOW-BLUE STRIPE   |
| 265     | CLICKER RELAY TERM. NO. 1 TO SPEED CONTROL BRAIN                           | WHITE               | 484     | CLICKER RELAY TERM. NO. 1 TO RESUME SPEED SWITCH                  | BLACK                |
| 266     | BRAKE SW. TO CLICKER RELAY TERM. NO. 4                                     | YELLOW              | 489     | EMERGENCY FLASHER SWITCH TO STOPLAMP RELAY                        | ORANGE               |
| 267     | CONTROL HEAD MAKE READY SW. TO BRAKE SW.                                   | BLACK-YELLOW STRIPE | 490     | IGNITION SWITCH TO TRANSMISSION INDICATOR LAMP                    | BLUE-RED STRIPE      |
| 268     | HEATER SW. TO HEATER BLOWER MOTOR (LOW)                                    | RED-BLACK STRIPE    | 491     | CIRC. BREAKER (BATT. TERM) TO STOPLAMP RELAY (BATT. TERM)         | RED-WHITE STRIPE     |
| 269     | HEATER SW. TO HEATER BLOWER MOTOR (MEDIUM)                                 | BLUE-RED STRIPE     | 492     | STOPLAMP RELAY (ARM TERM.) TO TURN SIGNAL SWITCH                  | GREEN                |
| 270     | HEATER SW. TO HEATER BLOWER MOTOR (HIGH)                                   | BLACK-YELLOW STRIPE | 494     | TURN SIGNAL RELAY TO T/S FLASHER                                  | WHITE                |
| 271     | AIR COND. MASTER SW. TO "F" TERM. OF FAST IDLE RELAY                       | BLUE                | 509     | AIR COND. CONDENSOR THERMAL SWITCH FEED                           | YELLOW               |
| 272     | NEUTRAL SWITCH TO "B" TERM. OF FAST IDLE RELAY                             | GREEN               | 510     | AIR COND. CONDENSOR THERMAL SW. TO BLOWER MOTOR                   | ORANGE               |
| 273     | IGN. SWITCH TO FAST IDLE RELAY                                             | YELLOW              | 511     | STOPLAMP SW. TO TURN SIGNAL SW.                                   | GREEN                |
| 274     | FAST IDLE RELAY TO STARTING MOTOR RELAY                                    | RED                 | 512     | SWITCH TO TRAILER AUX. LAMPS                                      | BLACK                |
| 275     | FAST IDLE RELAY "A" TERM. TO FAST IDLE SOLENOID                            | BLACK               | 513     | CIRCUIT BREAKER TO STOPLAMP RELAY FEED                            | BROWN                |
| 276     | STARTER MOTOR RELAY TO NEUTRAL SWITCH                                      | YELLOW              | 514     | EMERGENCY WRNG. SW. TO EMERG. WRNG. RELAY COIL TERM.              | BLUE                 |
| 277     | BLOWER MOTOR TO SWITCH                                                     | GREEN               | 515     | HEATER RESISTOR TO BLOWER MOTOR (HI)                              | ORANGE               |
| 280     | COORDINATOR SW. TO WINDSHIELD WIPER MOTOR                                  | WHITE-GREEN STRIPE  | 517     | CIRCUIT BREAKER (LOAD TERM.) TO CONTROL SWITCH (BATTERY TERMINAL) | BLACK-WHITE STRIPE   |
| 281     | COORDINATOR SW. TO WINDSHIELD WIPER MOTOR                                  | BLUE-BLACK STRIPE   | 519     | GLOW PLUG SW. TO LAMP (FEED)                                      | WHITE                |
| 282     | TURN SIGNAL SW. TO RH REAR TURN SIGNAL LAMP                                | GREEN               | 520     | SEAT BELT WARNING LAMP TO WARNING LAMP SWITCH                     | PURPLE-WHITE STRIPE  |
| 283     | TURN SIGNAL SW. TO LH REAR TURN SIGNAL LAMP                                | YELLOW-BLACK STRIPE | 526     | CIRCUIT BREAKER TO MARKER LAMP SW. FEED                           | BLACK-WHITE STRIPE   |
| 284     | BATTERY FEED TO STOPLAMP SWITCH                                            | RED                 | 532     | IGNITION SWITCH TO VACUUM SWITCH                                  | ORANGE               |
| 285     | "R" TERMINAL HEADLAMP SWITCH TO REAR LAMP                                  | BROWN               | 533     | VACUUM SWITCH TO INDICATOR LAMP                                   | BLACK                |
| 286     | FUEL GAUGE INDICATOR TO TANK SENDING UNIT                                  | ORANGE              | 536     | BLOWER MOTOR RELAY (LOAD TERM) TO BLOWER MOTOR                    | BLACK                |
| 288     | "R" TERM. OF ALT. REG. TO ALT. "R" TERM                                    | WHITE-BLACK STRIPE  | 537     | COMPRESSOR TO CLUTCH                                              | YELLOW               |
| 289     | FAST IDLE RELAY "A" TERM. TO COMPRESSOR CLUTCH                             | BLACK               | 546     | STARTER CONTROL TO INTERLOCK MODULE                               | WHITE-PINK STRIPE    |
| 292     | REAR TERM. OF HEADLAMP SW. TO STORAGE COMPT. LAMP                          | WHITE               | 560     | SEAT BELT WRNG. TIMER TO L.F. RETRACTOR SWITCH                    | BROWN-BLUE STRIPE    |
| 296     | FUSE PANEL ACCY. FEED TO SPLICE                                            | RED                 | 561     | SEAT BELT WRNG. TIMER TO R.F. SEAT SENSOR                         | BLUE-WHITE STRIPE    |
| 297     | IGN. SW. (ACCY. TERM) TO FUSE PANEL ACCY. FEED                             | BLACK-GREEN STRIPE  | 562     | SENSOR SIGNAL TO AMPLIFIER                                        | GREEN-WHITE STRIPE   |
| 313     | WINDOW REGULATOR SWITCH TO WINDOW REGULATOR MOTOR (DOWN)                   | ORANGE-WHITE STRIPE | 563     | AUX. HEADLAMP SW. TO AUX. HD. LAMP RELAY                          | BROWN                |
| 314     | WINDOW REGULATOR SWITCH TO WINDOW REGULATOR MOTOR (UP)                     | WHITE-ORANGE STRIPE | 564     | HEADLAMP SW. TO AUX. HEADLAMP RELAY                               | ORANGE               |
| 331     | WINDSHIELD WASHER SW. (FLOOR) TO W/SHIELD WIPER SW.                        | RED                 | 565     | AUX. HEADLAMPS TO AUX. HD. RELAY                                  | BLUE                 |
| 332     | WINDSHIELD WASHER SW. FEED (FLR.) TO IGN. SW. ACCY. TERM                   | YELLOW              | 568     | ALTERNATOR RELAY TO ALTERNATOR REGULATOR                          | GREEN                |
| 333     | WINDOW REGULATOR SWITCH TO WINDOW REGULATOR MOTOR                          | YELLOW-RED STRIPE   | 569     | INTERLOCK MODULE TO CENTER BUCKLE SWITCH                          | ORANGE-WHITE STRIPE  |
| 334     | WINDOW REGULATOR SWITCH TO WINDOW REGULATOR MOTOR                          | RED-YELLOW STRIPE   | 570     | INTERLOCK MODULE TO CENTER SEAT SENSOR                            | YELLOW-GREEN STRIPE  |
| 345     | RELAY NO. 1 TERM. TO POST. TERM. VOLT. REG.                                | GREEN-WHITE STRIPE  | 572     | ENGINE WARNING SYSTEM                                             | RED-WHITE STRIPE     |
| 346     | RELAY NO. 2 TERM. TO BATT. TERM. START RELAY                               | WHITE-GREEN STRIPE  | 575     | LIGHT SWITCH FEED                                                 | RED-BLACK STRIPE     |
| 347     | THERMOSTATIC SW. TO CLUTCH                                                 | BLACK               | 576     | LIGHT SWITCH TO RELAY                                             | BLUE                 |
| 348     | THERMOSTATIC SW. TO AIR COND. SW. SELECTOR TERM.                           | GREEN-WHITE STRIPE  | 577     | FUSE PANEL TO CIRCUIT BREAKER                                     | GREEN                |
| 349     | THERMOSTATIC SW. TO AIR COND. SW.                                          | BROWN               | 578     | CIRCUIT BREAKER TO RELAY FEED                                     | YELLOW               |
| 350     | AIR COND. SW. "HI" TERM. TO CLUTCH RELAY "BATT." TERM.                     | YELLOW              | 579     | RELAY TO JUNCTION BLOCK                                           | BLACK-ORANGE STRIPE  |
| 351     | CLUTCH RELAY TO CLUTCH                                                     | RED                 | 580     | FUSE PANEL TO ANTI-SKID                                           | BLUE                 |
| 358     | IGN. SW. (ACCY. TERM) TO AIR COND. EVAPORATOR MOTOR SW.                    | YELLOW              | 581     | FAILURE MODULE TO RELAY                                           | GREEN-WHITE STRIPE   |
| 359     | EVAPORATOR THERMOSTAT TO COMPRESSOR CLUTCH                                 | BLACK-WHITE STRIPE  | 583     | INTERMITTENT GOV. TO INTERMITTENT GOV. FEED                       | BLACK                |
| 360     | SPEED CONTROL BRAKE SW. TO SPEED CONTROL IND. LAMP                         | YELLOW-BLUE STRIPE  | 584     | IGN. SW. TO SEAT BELT WARNING IND.                                | GREEN-BLUE STRIPE    |
| 364     | ACCY. TERM. IGN. SW. (FUSE PANEL) TO BLWR. MOTOR RELAY                     | BLACK-GREEN STRIPE  | 587     | W/SHIELD WIPER SW. TO INTERMITTENT GOVERNOR FEED                  | BLACK-WHITE STRIPE   |
| 369     | VACUUM SOLENOID TO TEMP. SW.                                               | BROWN               | 588     | W/SHLD. WIPER MOTOR DYN. BRAKE TO W/S WIPER SW. GRND.             | WHITE-BLACK STRIPE   |
| 370     | AIRSHIFT SW. TO BATT. TERM. OF IGN. SW.                                    | YELLOW              | 589     | W/SHLD. WIPER SW. TO INTERMITTENT GOV. GRND. DYN. BRKG.           | ORANGE               |
| 371     | BLOWER MOTOR RELAY (LOAD TERM) TO BLOWER MOTOR                             | RED                 | 590     | INTERMITTENT GOVERNOR TO W/S WIPER SWITCH                         | BLUE-WHITE STRIPE    |
| 373     | BATTERY FEED TO CIRCUIT BREAKER (BATT. TERM)                               | YELLOW              | 591     | SPEED CONTROL RELAY TO SPEED REGULATOR                            | BLACK-ORANGE STRIPE  |
|         |                                                                            |                     | 592     | STOPLAMP SW. TO SPEED CONTROL RELAY                               | BLUE-WHITE STRIPE    |
|         |                                                                            |                     | 593     | SPEED CONTROL ACTUATOR TO CUTOFF RELAY                            | YELLOW               |

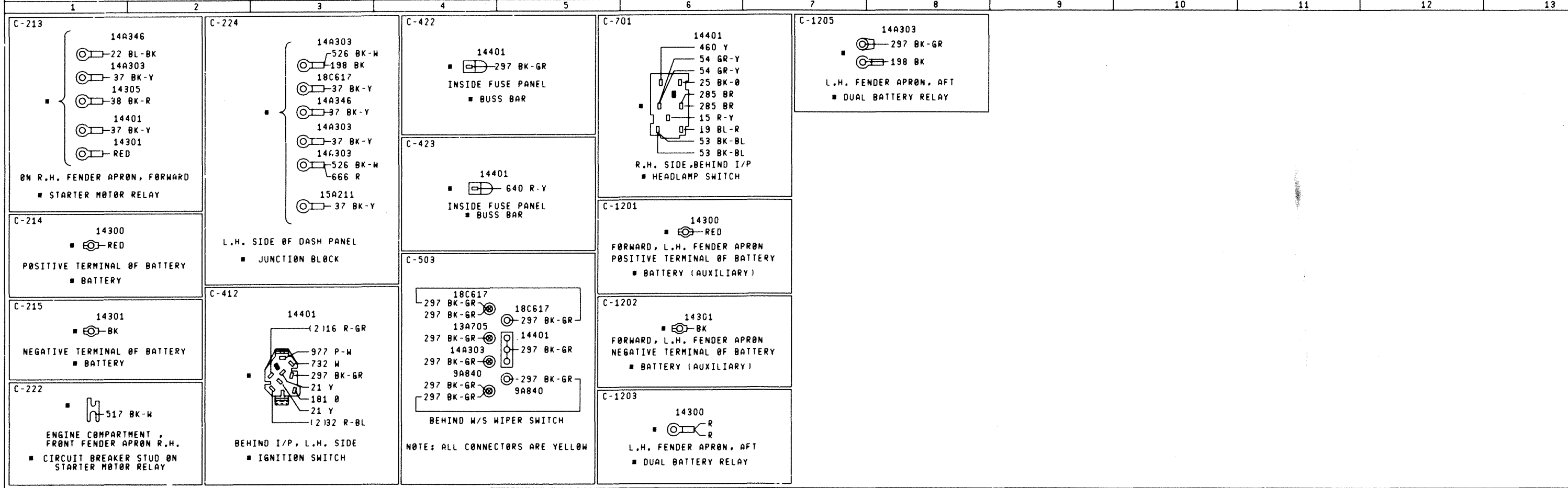
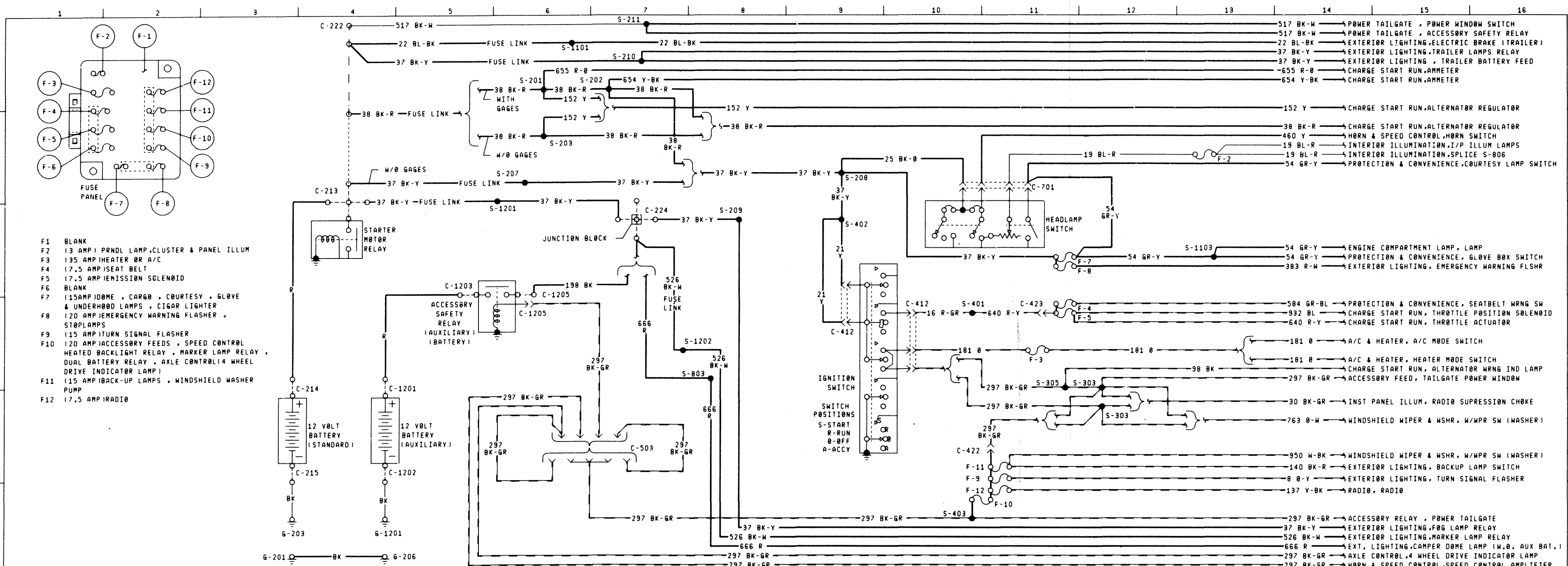
## STANDARD WIRE COLOR CODE CHART (Continued)

| CIRCUIT | DESCRIPTION                                                 | COLOR               | CIRCUIT | DESCRIPTION                                                            | COLOR                |
|---------|-------------------------------------------------------------|---------------------|---------|------------------------------------------------------------------------|----------------------|
| 594     | TEMP. TRANSMITTER TO IND. LAMP (ENGINE COLD)                | GREEN               | 701     | C.B. SQUELCH CONTROL                                                   | WHITE-PURPLE STRIPE  |
| 596     | PRIMER SW. TO OIL PRESSURE SAFETY SWITCH                    | BLACK               | 702     | C.B. PUSH TO TALK                                                      | WHITE-BLACK STRIPE   |
| 597     | COIL TERM. OF IGN. SW. TO OIL PRESSURE SAFETY SW.           | RED                 | 703     | C.B. DOWN SWITCH                                                       | WHITE-ORANGE STRIPE  |
| 598     | COIL TERM. OF IGN. SW. TO FUEL PUMP PRIMER SWITCH           | RED-BROWN STRIPE    | 704     | FRONT RADIO SPEAKER VOICE COIL GROUND                                  | BLACK-RED STRIPE     |
| 599     | START TERM. OF IGN. SW. TO FUEL PUMP PRIMER SWITCH          | RED-BLUE STRIPE     | 705     | CIRCUIT BREAKER TO HEATER BLOWER SWITCH                                | BROWN                |
| 600     | FAILURE MODULE TO TANDEM RR. AXLE CONTROLLER                | BLUE-BLACK STRIPE   | 706     | C.B. SCAN L.E.D.                                                       | GRAY                 |
| 601     | BRAKE SKID CONTROL MODULE FEED                              | BLUE                | 707     | C.B. UP SWITCH                                                         | WHITE-YELLOW STRIPE  |
| 602     | COIL TERM. OF IGN. SW. TO BRAKE SKID CONTROL MODULE         | RED-PURPLE STRIPE   | 708     | RADIO SPEAKER VOICE COIL FEED                                          | BLACK-ORANGE STRIPE  |
| 603     | DUAL BRAKE WARNING LIGHT TO BRAKE SKID CONTROL MODULE       |                     | 709     | C.B. VOLUME CONTROL                                                    | WHITE-BLUE STRIPE    |
| 604     | SKID CONTROL MODULE TO R.H. WHEEL SENSOR (HIGH)             | GREEN               | 710     | C.B. SCAN SWITCH                                                       | WHITE-GREEN STRIPE   |
| 605     | SKID CONTROL MODULE TO R.H. WHEEL SENSOR (LOW)              | YELLOW              | 711     | C.B. REGULATED 5V                                                      | GREEN-BLACK STRIPE   |
| 606     | SKID CONTROL MUDULE TO L.H. WHEEL SENSOR (HIGH)             | BROWN               | 712     | C.B. A-DIGIT                                                           | PURPLE               |
| 607     | SKID CONTROL MODULE TO L.H. WHEEL SENSOR (LOW)              | YELLOW              | 713     | C.B. MIC-AUDIO                                                         | WHITE                |
| 608     | FAILURE MOD. TO FRONT AXLE CONTROL                          | BROWN               | 714     | C.B. C-DIGIT                                                           | ORANGE               |
| 609     | ESOTP MODULE TO THERMOCOUPLE (NEG.)                         | BLUE-WHITE STRIPE   | 715     | C.B. A-DIGIT                                                           | GREEN                |
| 610     | THERMOCOUPLE (-) MODULE TO SENSOR                           | RED                 | 716     | C.B. B-DIGIT                                                           | YELLOW               |
| 611     | THERMOCOUPLE (+) MODULE TO SENSOR                           | RED-YELLOW STRIPE   | 717     | C.B. SPEAKER TO TRANCEIVER                                             | BLUE-RED STRIPE      |
| 612     | AIR DUMP VALVE (-) TO MODULE                                | YELLOW              | 718     | C.B. ON/OFF                                                            | RED-WHITE STRIPE     |
| 613     | EGR VALVE (-)                                               | BLUE                | 719     | C.B. NOISE BLANKER                                                     | GREEN-ORANGE STRIPE  |
| 614     | SPEED SENSOR                                                | BROWN               | 720     | C.B. B-DIGIT                                                           | BLUE                 |
| 615     | FEED TO FAILURE SWITCH                                      | GREEN               | 721     | C.B. SPEAKER VOICE COIL RETURN                                         | BLUE-GREEN STRIPE    |
| 617     | FUSE PANEL TO SKID CONTROL MODULE                           | BLACK-YELLOW STRIPE | 722     | C.B. RELAY DRIVE                                                       | GREEN-RED STRIPE     |
| 618     | FAILURE MOD. TO RR. AXLE CONTROL                            | BLACK-GREEN STRIPE  | 723     | C.B. SPEAKER RELAY TO MIC                                              | BLUE-ORANGE STRIPE   |
| 619     | FAILURE MOD. TO RR. AXLE CONTROL                            | RED                 | 724     | C.B. C-DIGIT                                                           | GREEN-WHITE STRIPE   |
| 620     | FAILURE MOD. TO RR. AXLE CONTROL                            | GREEN-YELLOW STRIPE | 725     | C.B. D-DIGIT                                                           | BROWN                |
| 621     | FAILURE MOD. TO FRONT AXLE CONTROL                          | BLUE                | 730     | BATTERY TO VOLT METER                                                  | RED                  |
| 622     | FAILURE MOD. TO FRONT AXLE CONTROL                          | GREEN               | 732     | DISTRIBUTOR ELECTRONIC CONTROL FEED                                    | WHITE                |
| 625     | IGNITION SW. COIL TERM. TO PRIMER SWITCH                    | RED-WHITE STRIPE    | 733     | AMPLIFIER GROUND BREAKERLESS MODULE TO DISTRIBUTOR                     | BLACK-GREEN STRIPE   |
| 629     | FAILURE MOD. TO RR. AXLE CONTROL                            | BLUE                | 734     | AMPLIFIER TO SERVO TRANSDUCER FEED                                     | ORANGE-YELLOW STRIPE |
| 630     | FUSE PANEL TO FAILURE INDICATOR RELAY                       | RED-BLACK STRIPE    | 735     | AMPLIFIER FEEDBACK POTENTIOMETER FEED                                  | PURPLE-BLUE STRIPE   |
| 631     | FAILURE MOD. TO TAN. RR. AXLE CONTROL                       | WHITE               | 737     | AIR CONDITIONER MOTOR TO GROUND                                        | GREEN                |
| 632     | IGN. SW. COIL TERM. TO OIL TEMP. WARNING LAMP               | GREEN-BLACK STRIPE  | 738     | FUEL PUMP RELAY "H" TERMINAL TO OIL PRESSURE SWITCH                    | GREEN-ORANGE STRIPE  |
| 633     | IGN. SW. TO OIL TEMP. WARNING RELAY                         | BLACK               | 739     | FUEL PUMP RELAY TO SELECT SWITCH "B" TERMINAL                          | RED-YELLOW STRIPE    |
| 634     | OIL TEMP. WARNING RELAY TO OIL TEMP. WARNING LAMP           | RED                 | 740     | IGNITION SWITCH (COIL TERM.) TO FUEL PUMP RELAY                        | GREEN                |
| 635     | OIL TEMP. WARNING LAMP TO OIL TEMP. WARNING SWITCH          | BLUE                | 741     | IGNITION SWITCH (ACCY. TERM.) TO FUEL PUMP RELAY                       | RED                  |
| 636     | OIL TEMP. WARNING RELAY TO OIL TEMP. SW.                    | GREEN               | 742     | FUEL PUMP RELAY TO FUEL PUMP                                           | BLUE                 |
| 637     | OIL TEMP. WARNING RELAY TO FLASHER                          | GREEN               | 743     | FUEL PUMP RELAY TO OIL PRESSURE SW.                                    | YELLOW               |
| 638     | FLASHER TO OIL PRESS. SWITCH                                | BLACK               | 747     | FUSE PANEL TO RADIO RECEIVER                                           | BLACK                |
| 639     | FLASHER TO OIL TEMP. WARNING LAMP                           | YELLOW              | 748     | A/C MODE SHIFT TO HEATER CONTROL SWITCH                                | BLUE                 |
| 640     | IGN. SWITCH COIL TERM. TO WARNING LAMPS                     | YELLOW-RED STRIPE   | 749     | RADIO RECEIVER TO F.M. TUNER FEED                                      | BLACK                |
| 641     | IGN. SWITCH GROUND TERM. TO WARNING LAMP                    | RED-YELLOW STRIPE   | 753     | HEATER & A/C CONTROL SWITCH TO BLOWER RELAY SWITCH                     | YELLOW-RED STRIPE    |
| 642     | WATER TEMP. WARNING LAMP TO WATER TEMP. SW. (COLD)          | BLACK-RED STRIPE    | 763     | ACC. TERM. OF IGN. SW. TO W/S WIPER CIRCUIT BREAKER                    | ORANGE-WHITE STRIPE  |
| 643     | CHARGE INDICATOR LAMP TO SPICE                              | WHITE-GREEN STRIPE  | 764     | W/S WIPER CIRCUIT BREAKER TO W/S WIPER MOTOR                           | BLACK-ORANGE STRIPE  |
| 644     | OIL TEMP. WARNING LAMP TO IGN. SWITCH (ACCY. TERM.)         | YELLOW-BLACK STRIPE | 778     | SEAT BELT SW. FEED. "P" TERM.                                          | YELLOW               |
| 645     | IGNITION SWITCH COIL TERMINAL TO TACHOMETER                 | RED-GREEN STRIPE    | 779     | MARKER LAMP SWITCH TO BLINK SWITCH                                     | WHITE-BLACK STRIPE   |
| 646     | TACH. THRU IGN. RESISTOR TO BATTERY TERM. OF IGN. COIL      | BLACK               | 780     | ENGINE ALARM RELAY (OIL PRESS.) "F" TERM. TO "A" TERM. IGNITION SWITCH | RED                  |
| 647     | WATER TEMP. WARNING LAMP TO WATER TEMP. SWITCH (HOT)        | RED                 | 781     | BRAKE PAD SWITCH TO HOLDING RELAY                                      | BROWN                |
| 648     | IGNITION SW. COIL TERMINAL TO TACHOMETER                    | RED                 | 784     | STEREO SPEAKER VOICE COIL RETURN                                       | PURPLE               |
| 649     | TACHOMETER TO IGNITION COIL "B" TERM.                       | RED-GREEN STRIPE    | 786     | FUEL PUMP PRIMER SW. TO FUEL PUMP RELAY                                | RED                  |
| 654     | ALT. SHUNT "A" TERM. TO AMMETER                             | YELLOW-BLACK STRIPE | 787     | FUEL PUMP SAFETY SWITCH TO FUEL PUMP MOTOR                             | RED-BROWN STRIPE     |
| 655     | STARTER MOTOR RELAY SHUNT TO AMMETER                        | RED-ORANGE STRIPE   | 789     | VACUUM SWITCH TO HOLDING RELAY                                         | BROWN-WHITE STRIPE   |
| 666     | DOME LAMP FEED                                              | RED                 | 795     | NEUTRAL SAFETY RELAY TO NEUTRAL SWITCH                                 | RED-BLACK STRIPE     |
| 668     | IGN. RELAY TO STARTER MOTOR RELAY                           | BLACK               | 796     | ACCESS. FEED TO NEUTRAL SAFETY RELAY                                   | BLACK                |
| 669     | IGN. RELAY TO STARTER MOTOR RELAY STARTER TERM.             | RED-BLUE STRIPE     | 797     | BATTERY FEED TO STEREO                                                 | GREEN                |
| 670     | FAILURE INDICATOR TO MODULE                                 | PINK                | 802     | SPEAKER VOICE COIL FEED-FRONT (LEFT CHANNEL)                           | BLUE                 |
| 671     | SPEED REG. SW. "ON" POSITION TO ON & OFF RELAY              | WHITE               | 803     | SPEAKER VOICE COIL FEED-FRONT (RIGHT CHANNEL)                          | RED                  |
| 672     | SELECTOR SW. TO LEFT HAND PUMP MOTOR                        | BROWN               | 804     | FADER CONTROL TO FADER ARM (LEFT CHANNEL)                              | RED                  |
| 673     | SELECTOR SW. TO LEFT FUEL GAUGE                             | GREEN               | 805     | FADER CONTROL TO FADER ARM (RIGHT CHANNEL)                             | BLUE                 |
| 674     | SELECTOR SW. TO RIGHT HAND PUMP MOTOR                       | BROWN-WHITE STRIPE  | 806     | SPEAKER VOICE COIL FEED (RIGHT CHANNEL)                                | WHITE                |
| 675     | SELECTOR SW. TO RIGHT FUEL GAUGE                            | GREEN-RED STRIPE    | 807     | SPEAKER VOICE COIL FEED (LEFT CHANNEL)                                 | ORANGE               |
| 676     | L.H. SENSOR FEED JUNCTION BLOCK TO CONTROLLER               | ORANGE              | 808     | SELECTOR SWITCH TO FUEL TANK SOLENOID VALVE                            | BROWN-ORANGE STRIPE  |
| 677     | L.H. SENSOR COMMON JUNCTION BLOCK TO CONTROLLER             | GREEN               | 809     | STOPLAMP SWITCH TO STOPLAMP                                            | RED-BLACK STRIPE     |
| 678     | R.H. SENSOR COMMON JUNCTION BLOCK TO CONTROLLER             | GREEN-WHITE STRIPE  | 810     | STOPLAMP SWITCH TO STOPLAMP                                            | RED-BLACK STRIPE     |
| 679     | R.H. SENSOR FEED JUNCTION BLOCK TO CONTROLLER               | ORANGE-WHITE STRIPE | 811     | RELAY "A" TERM. TO TRAILER TAIL LAMPS                                  | BROWN                |
| 680     | SELECTOR SWITCH TO MIDSHIP FUEL TANK                        | BLUE                | 812     | MARKER LAMP SWITCH TO MIRROR LAMP                                      | BLUE                 |
| 682     | H/L SW. BATT. TERM. TO TRACTOR — TRAILER RELAY "B" TERM.    | YELLOW              | 813     | BRAKE SWITCH TO TRAILER RELAY "B" TERM.                                | YELLOW-BLACK STRIPE  |
| 683     | H/L SW. "R" TERM. TO TRACTOR — TRAILER RELAY "F" TERM.      | BROWN               | 814     | IGN. SWITCH COIL TERM. TO VOLTAGE RELAY                                | WHITE                |
| 684     | TRACTOR — TRAILER RELAY "A" TERM. TO MARKER LAMP SW.        | BLACK-WHITE STRIPE  | 816     | CIRCUIT BREAKER TO REVERSE RELAY FEED                                  | YELLOW-BLUE STRIPE   |
| 685     | TRACTOR — TRAILER RELAY CIRC. BRKR. TO AUX. MARKER LAMP SW. |                     | 822     | FRONT SPEAKER TO FADER CONTROL SWITCH                                  | BROWN                |
| 687     | ACCESSORY FEED                                              | BLACK-RED STRIPE    | 823     | FADER CONTROL SWITCH TO RADIO                                          | GREEN                |
| 688     | HEATED BACKLITE SWITCH                                      | GRAY-YELLOW STRIPE  | 824     | FRONT SPEAKER TO RADIO                                                 | BLUE                 |
| 689     | ENG. SPEED SENSOR UNIT TO MANIFOLD VACUUM SENSING SW.       | GRAY-BLUE STRIPE    | 825     | SERVO SOURCE VACUUM SOLE TO CONTROL TRANSISTOR                         | GRAY-BLACK STRIPE    |
| 690     | HYDRO-BOOST SW. TO WARNING LAMP                             | PURPLE              | 826     | SERVO VENT VACUUM SOLE TO CONTROL TRANSISTOR                           | WHITE-PINK STRIPE    |
| 691     | SKID CONTROL MODULE TO AXLE SENSOR                          | GREEN-WHITE STRIPE  | 827     | SERVO FEEDBACK POTENTIOMETER SIGNAL TO AMPLIFIER                       | YELLOW-RED STRIPE    |
| 692     | SKID CONTROL WARNING RELAY TO SKID CONT. MODULE             | YELLOW              | 828     | SERVO FEEDBACK POTENTIOMETER BASE TO AMPLIFIER                         | BROWN-GREEN STRIPE   |
| 693     | BRAKE SYSTEM WARNING RELAY TO SW.                           | BROWN               | 829     | IGN. SW. (ACCY. TERM.) TO VACUUM SOLENOID                              | RED                  |
| 694     | TURN SIG. FLASHER "P" TERM. TO TURN SIGNAL IND. LAMPS       | BROWN               | 830     | SENSOR SIGNAL TO AMPLIFIER                                             | GREEN-WHITE STRIPE   |
| 697     | SPEED REG. SW. "OFF" POSITION TO ON & OFF RELAY             | BROWN               | 832     | CONTROL RELAY TO HOLDING RELAY                                         | YELLOW-BLACK STRIPE  |
|         |                                                             | ORANGE-BLACK STRIPE | 833     | IGN. SW. ACCY. TERM. TO EMERGENCY STOP LAMP SW.                        | GREEN                |
|         |                                                             |                     | 834     | REAR SPEAKER VOICE COIL FEED (RIGHT CHANNEL)                           | BLUE                 |

## STANDARD WIRE COLOR CODE CHART (Continued)

| CIRCUIT | DESCRIPTION                                                  | COLOR               | CIRCUIT | DESCRIPTION                                                      | COLOR               |
|---------|--------------------------------------------------------------|---------------------|---------|------------------------------------------------------------------|---------------------|
| 835     | REAR SPEAKER VOICE COIL FEED (LEFT CHANNEL)                  | RED                 | 908     | STARTER MOTOR RELAY TO LOCK IN COIL                              | YELLOW              |
| 836     | INDICATOR LAMP TO FLASHER                                    | RED                 | 910     | BRAKE SWITCH TO AIR VALVE                                        | BLUE-WHITE STRIPE   |
| 837     | FLASHER TO EMERGENCY BRAKE SWITCH                            | BLACK               | 911     | FUSE PANEL (ACCY. FEED) TO SPEED REGULATOR SWITCH                | ORANGE-WHITE STRIPE |
| 838     | THERMAL RELAY TO LOCK IN VALVE                               | ORANGE-BLACK STRIPE | 912     | SPEED REGULATOR SWITCH TO SELECTOR SWITCH                        | YELLOW              |
| 839     | BATTERY TO STOP LAMP CIRCUIT BREAKER                         | WHITE               | 913     | HEATER RESISTOR TO BLOWER MOTOR (HI)                             | YELLOW              |
| 847     | STARTER RELAY SOLENOID "SM" TERM. TO C.S. RELAY COIL         | WHITE               | 914     | FUSE PANEL TO SPEED REG. SW. FEED                                | GREEN               |
| 848     | BALLAST RESISTOR "E" TERM. TO TRANSISTOR UNIT "E" TERM.      | RED-WHITE STRIPE    | 915     | SPEED REG. BRAKE SW. TO SPEED REG. COIL                          | BLACK-ORANGE STRIPE |
| 849     | STARTER MOTOR RELAY TO TACH BLOCK                            | BROWN               | 916     | SPEED REG. COIL TO AUTOMATIC CONTROL                             | RED                 |
| 850     | BALLAST RESISTOR COIL TERM. TO IGN. COIL BATT. TERM.         | BLUE-WHITE STRIPE   | 918     | IGN. SW. TO TRANS. NEUTRAL SW.                                   | GREEN               |
| 851     | TRANSISTOR UNIT "B" TERM. TO DISTRIBUTOR                     | GREEN               | 919     | TRANS. NEUTRAL SW. TO INDICATOR LAMP                             | BLUE                |
| 852     | TRANSISTOR "C" TERM. TO BALLAST RESISTOR "C" TERM.           | BLUE                | 920     | BRAKE SW. TO SPEED CONTROL REG.                                  | YELLOW              |
| 853     | COIL TERM. IGN. SW. TO BALLAST RESISTOR "E" TERM.            | RED-GREEN STRIPE    | 921     | SPEED CONTROL "OFF POSITION" TO SPEED REGULATOR                  | GREEN-PURPLE STRIPE |
| 854     | C.S. RELAY TO STARTER SOLENOID "I" TERM.                     | BROWN               | 922     | SPEED CONTROL "ON POSITION" TO SPEED REGULATOR                   | WHITE               |
| 855     | TRANSISTOR UNIT TO PICK-UP COIL                              | PURPLE              | 923     | SPEED CONTROL SW. TO SPEED REG. SOLENOID                         | PURPLE              |
| 856     | PICK-UP COIL TO TRANSISTOR UNIT                              | ORANGE              | 924     | HOLDING RELAY TO SPEED CONTROL SW. FEED                          | RED                 |
| 857     | TRANSISTOR UNIT TO START TERM. TO STARTER RELAY              | WHITE               | 925     | SPEED CONTROL SW. TO SPEED REG. COUPLING COIL                    | WHITE-ORANGE STRIPE |
| 858     | MAKE READY SWITCH TO BRAKE PEDAL PAD SWITCH                  | RED                 | 926     | HEATER BLOWER MOTOR SW. TO BLOWER MOTOR MED.                     | RED-BLUE STRIPE     |
| 859     | BRAKE PEDAL PAD SWITCH TO CONTROL RELAY TERM. NO. 4          | YELLOW              | 931     | SPEED CONTROL SWITCH TO SPEED REG.                               | BLACK               |
| 860     | MAKE READY SWITCH TO SET SPEED SWITCH                        | PURPLE-WHITE STRIPE | 932     | IGN. SWITCH TO THROTTLE SOLENOID                                 | BLUE                |
| 861     | RETARD SWITCH TO CONTROL RELAY TERM. NO. 7                   | BLUE-WHITE STRIPE   | 933     | EMISSION MODULATOR CONTROL FEED                                  | RED                 |
| 862     | RESUME SWITCH TO CONTROL RELAY TERM. NO. 8                   | WHITE-BLUE STRIPE   | 934     | EMISSION SPEED SENSOR TO MODULATOR CONTROL                       | BLUE                |
| 863     | BRAKE SWITCH TO HOLDING RELAY                                | BLACK-YELLOW STRIPE | 935     | TRANSISTOR BASE TERM. TO DIST. TERM. OF IGN. COIL                | BLUE                |
| 864     | BRAKE SWITCH TO 20 M.P.H. SWITCH                             | ORANGE              | 936     | TRANSISTOR EMITTER TERM. TO TRANSISTOR TERM. OF IGN. COIL        | BLACK               |
| 865     | SELECTOR SWITCH TO WARNING LAMP (LOW OIL PRESSURE)           | BLACK               | 937     | EMISSION SPEED SENSOR GROUND                                     | BLACK               |
| 866     | CONTROL SWITCH TO OIL PRESSURE PUMP                          | BLACK               | 939     | MODULATOR TO THERMO SWITCH                                       | GRAY                |
| 867     | IGNITION SWITCH TO OIL PRESSURE SWITCH                       | RED                 | 941     | WASHER CONTROL SW. TO WASHER PUMP MOTOR FEED                     | BLACK-WHITE STRIPE  |
| 868     | OIL PRESSURE SWITCH TO CONTROL SWITCH                        | RED-BROWN STRIPE    | 943     | TRACTOR TRAILER RELAY TO TRACTOR TRAILER CIRC. BRKER. LOAD TERM. | GREEN               |
| 869     | RETARD VALVE TO CONTROL RELAY TERM. NO. 1                    | GREEN-YELLOW STRIPE | 948     | FLASHER TO R.H. LAMP                                             | ORANGE              |
| 870     | EMERGENCY STOPLAMP SWITCH TO TRACTOR — TRAILER PLUG          | BLACK-WHITE STRIPE  | 949     | FLASHER TO L.H. LAMP                                             | BLUE                |
| 871     | LOCK-IN VALVE TO CONTROL RELAY TERM. NO. 2                   | RED-WHITE STRIPE    | 950     | FUSE PANEL TO WASHER CONTROL SWITCH                              | WHITE-BLACK STRIPE  |
| 872     | STARTER MOTOR RELAY TO CONTROL RELAY TERM. NO. 11            | RED-BLUE STRIPE     | 951     | WASHER CONTROL SW. TO WASHER PUMP MOTOR FEED                     | GREEN-BLACK STRIPE  |
| 873     | HEADLAMP SWITCH "R" TERM. TO ASH RECPT. LAMP FEED            | WHITE-BLACK STRIPE  | 952     | BATTERY TO TRACTOR TRAILER CIRC. BREAKER BATT. TERM.             | YELLOW-BLUE STRIPE  |
| 876     | HEADLAMP SW. BATT. TERM. TO ALT. "A" TERM.                   | YELLOW              | 953     | COORDINATOR SW. TO W/SHIELD WIPER MOTOR                          | WHITE-ORANGE STRIPE |
| 877     | ALT. "F" TERM. TO REG. "F" TERM.                             | WHITE               | 954     | W/SHIELD WIPER SW. TO COORDINATOR SW. FEED                       | BLACK-WHITE STRIPE  |
| 878     | REG. "A" TERM. TO IGN. SW. COIL TERM.                        | GREEN               | 955     | W/SHIELD WIPER MOTOR ARM RH TO W/S WIPER SWITCH                  | RED-ORANGE STRIPE   |
| 879     | BLOWER SW. MED. NO. 1 THRU RESISTOR TO HI BLOWER MOTOR FIELD | BLACK-ORANGE STRIPE | 956     | W/SHIELD WIPER SW. TO W/SHIELD WIPER MOTOR FIELD RH              | GREEN-ORANGE STRIPE |
| 880     | BLOWER SW. MED. NO. 2 TO LOW BLOWER MOTOR FIELD              | BLACK-RED STRIPE    | 957     | W/SHIELD WIPER SWITCH FEED TO IGN. SWITCH                        | YELLOW              |
| 881     | 20 MPH SWITCH TO CONTROL RELAY TERMINAL NO. 16               | GRAY                | 958     | ACCY. TERMINAL IGN. SW. TO WASHER CONTROL SW.                    | WHITE               |
| 882     | A/C BLOWER SW. TO A/C REFRIGERANT SOL. FEED                  | WHITE               | 960     | AUX. HEATER FEED TO SWITCH                                       | RED                 |
| 883     | CIRCUIT BREAKER TO A/C CONTROL RELAY                         | ORANGE              | 961     | GLOW PLUG SW. TO GLOW PLUG WARNING LAMP                          | BLACK-WHITE STRIPE  |
| 884     | A/C CONTROL RELAY TO A/C SW. (FEED)                          | YELLOW              | 962     | DIFF. TEMP. SW. TO FRONT DIFFERENTIAL                            | RED                 |
| 885     | ACCY. TERM. IGN. SW. TO A/C CONTROL RELAY                    | WHITE               | 963     | DIFF. TEMP. TO REAR DIFFERENTIAL                                 | GREEN               |
| 886     | LAMP TO SENDING UNIT                                         | BLUE                | 964     | ALT. TO REG. FIELD CONTROL                                       | BLUE                |
| 887     | SPLICE TO OIL TEMP. ENG.                                     | RED                 | 965     | RELAY (BATT. TERM.) TO BATT. CUT-OFF SWITCH                      | BLACK               |
| 888     | W/SHIELD WIPER SWITCH TO RELAY                               | RED                 | 968     | AXLE TEMPERATURE GAUGE TO SELECTOR SWITCH                        | WHITE-RED STRIPE    |
| 889     | W/SHIELD WIPER SWITCH TO RELAY                               | GREEN               | 970     | SELECTOR SWITCH TO FORWARD REAR AXLE SENDING UNIT                | RED-WHITE STRIPE    |
| 890     | W/SHIELD WIPER SWITCH TO RELAY                               | YELLOW              | 971     | SELECTOR SWITCH TO REAR AXLE SENDING UNIT                        | WHITE-PURPLE STRIPE |
| 891     | W/SHIELD WIPER MOTOR TO RELAY                                | YELLOW-BLACK STRIPE | 973     | BATTERY FEED TO FUEL CONTROL VALVE                               | RED                 |
| 892     | W/SHIELD WIPER SWITCH TO RELAY                               | BLUE                | 974     | FUEL CONTROL SWITCH TO FUEL CONTROL VALVE                        | ORANGE              |
| 893     | W/SHIELD WIPER MOTOR TO RELAY                                | BLUE-ORANGE STRIPE  | 975     | TRANSMISSION TEMPERATURE LAMP INDICATOR FEED                     | RED-GREEN STRIPE    |
| 895     | IGN. SW. TO W/SHIELD WIPER MOTOR CIRCUIT BREAKER             | RED                 | 976     | FUSE PANEL TO FUEL GAUGE INDICATOR                               | BLACK-GREEN STRIPE  |
| 896     | IGN. SW. COIL TERM. TO IND. LAMPS, OIL PRESS. & WATER TEMP.  | BLACK               | 977     | BRAKE WARNING SWITCH TO INDICATOR LAMP                           | PURPLE-WHITE STRIPE |
| 897     | CONTROL RELAY TO THERMAL RELAY                               | RED                 | 978     | TRANSMISSION TEMPERATURE GAUGE TO SENDER                         | YELLOW              |
| 898     | BRAKE SWITCH TO VACUUM SWITCH                                | GREEN               | 984     | MARKER LAMP SWITCH TO MARKER LAMP                                | BROWN               |
| 899     | ALTERNATOR NEU. TERM. TO ALT. REG. (NEU.-TERM.)              | RED                 | 985     | TURN SIGNAL RELAY TO LEFT TURN SIGNAL SWITCH                     | RED                 |
| 900     | ALTERNATOR AUX. TERM. TO IGN. SW. ACCY. TERM.                | RED-GREEN STRIPE    | 986     | TURN SIGNAL RELAY TO RIGHT TURN SIGNAL SWITCH                    | BROWN               |
| 901     | ALTERNATOR AUX. TERM. TO CHARGE IND. LAMP                    | YELLOW-BLACK STRIPE | 987     | TURN SIGNAL RELAY TO LEFT TURN CANCEL SWITCH                     | RED-BLUE STRIPE     |
| 902     | ALTERNATOR RECTIFIER (+TERM.) TO LOAD                        | BLACK-YELLOW STRIPE | 988     | TURN SIGNAL RELAY TO RIGHT TURN CANCEL SWITCH                    | BROWN-BLUE STRIPE   |
| 903     | ALTERNATOR AUX. TERM. TO ALT. REG. FIELD FEED TERM.          | GREEN-RED STRIPE    | 990     | RELAY TO INDICATOR LAMP                                          | BLACK-YELLOW STRIPE |
| 904     | IGNITION SWITCH (COIL/ACCY.) TO ALT. REG. (IGN. TERM.)       | GREEN-RED STRIPE    | 993     | INTERMITTENT GOVERNOR TO WINDSHIELD WIPER SWITCH                 | BROWN-WHITE STRIPE  |
| 905     | AIR COND. SW. "MED." TO BLOWER MOTOR                         | BLUE                | 994     | ELECTRIC COOLING P.V.S. SWITCH                                   | YELLOW              |
| 906     | IGN. SW. (ACCY. TERM.) TO CIRCUIT BREAKER                    | BLACK-YELLOW STRIPE | 995     | HEADLAMP SWITCH TO LO-BEAM OF HEADLAMP                           | RED-BLACK STRIPE    |
| 907     | HOLDING RELAY TO 25 MPH SW.                                  | BLACK-ORANGE STRIPE | 996     | HEADLAMP SWITCH TO WORKLAMP                                      | YELLOW-BLACK STRIPE |
|         |                                                              |                     | 997     | IMPLEMENT LAMP SW. TO IMPLEMENT LAMP                             | BROWN-YELLOW STRIPE |
|         |                                                              |                     | 998     | HEADLAMP SWITCH TO HI-BEAM OF HEADLAMP                           | GREEN-BLACK STRIPE  |

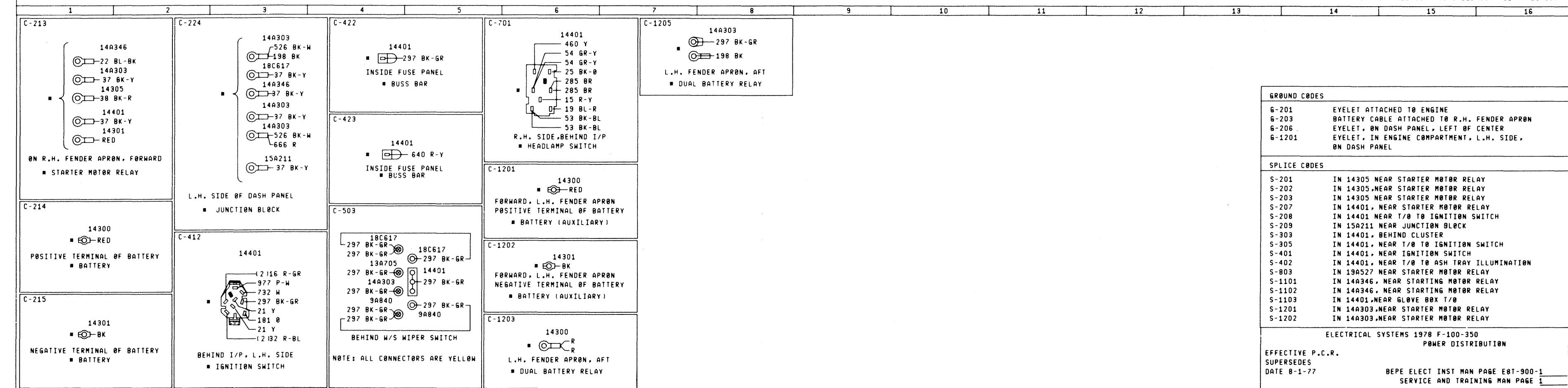
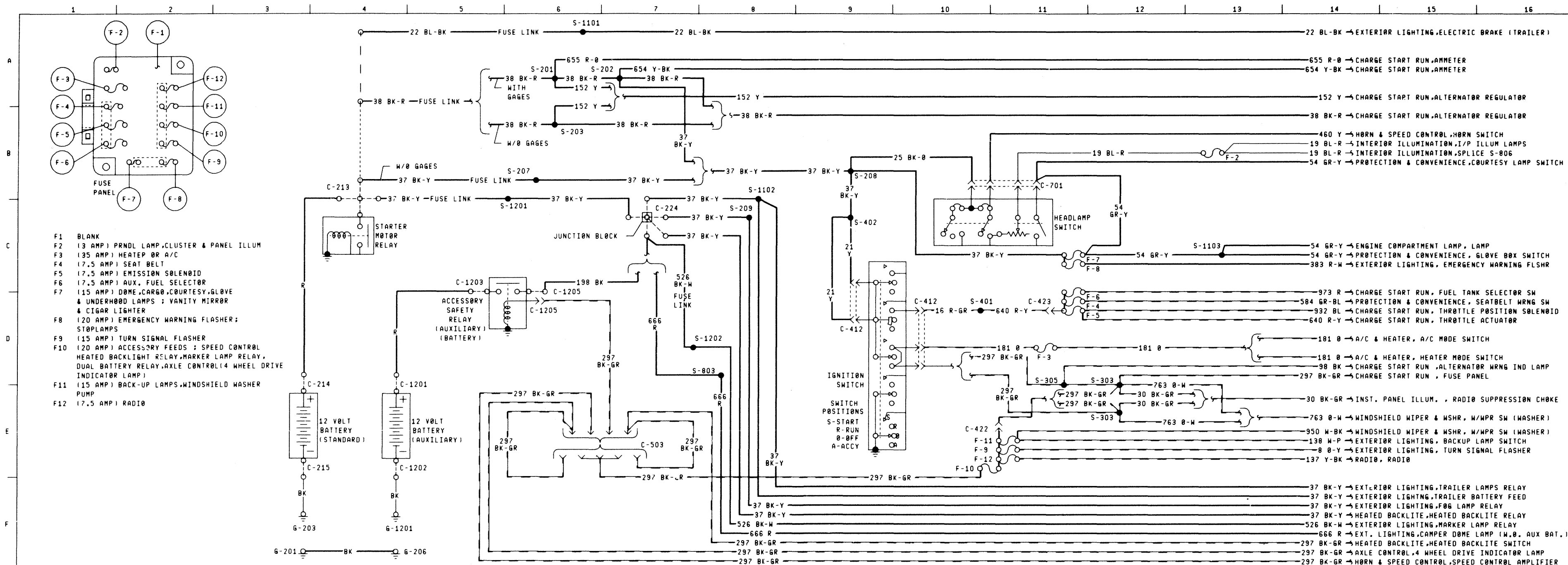




| GROUND CODES                                                       |                                                         |
|--------------------------------------------------------------------|---------------------------------------------------------|
| G-201                                                              | EYELET ATTACHED TO ENGINE                               |
| G-203                                                              | BATTERY CABLE ATTACHED TO R.H. FENDER APRON             |
| G-206                                                              | EYELET, ON DASH PANEL, LEFT OF CENTER                   |
| G-1201                                                             | EYELET, IN ENGINE COMPARTMENT, L.H. SIDE, ON DASH PANEL |
| SPICE CODES                                                        |                                                         |
| S-201                                                              | IN 14305 NEAR STARTER MOTOR RELAY                       |
| S-202                                                              | IN 14305 NEAR STARTER MOTOR RELAY                       |
| S-203                                                              | IN 14305 NEAR STARTER MOTOR RELAY                       |
| S-207                                                              | IN 14401, NEAR STARTER MOTOR RELAY                      |
| S-208                                                              | IN 14401 NEAR T/O TO IGNITION SWITCH                    |
| S-209                                                              | IN 15A211 NEAR JUNCTION BLOCK                           |
| S-210                                                              | IN 14A303 NEAR STARTER MOTOR RELAY                      |
| S-211                                                              | IN 14401, NEAR T/O TO HEATER BLWR MTR RESISTOR          |
| S-303                                                              | IN 14401, BEHIND CLUSTER                                |
| S-305                                                              | IN 14401, NEAR T/O TO IGNITION SWITCH                   |
| S-401                                                              | IN 14401, NEAR IGNITION SWITCH                          |
| S-402                                                              | IN 14401, NEAR T/O TO ASH TRAY ILLUMINATION             |
| S-403                                                              | IN 14401, MAIN BODY NEAR FUSE PANEL                     |
| S-803                                                              | IN 14405 NEAR LICENSE LAMP T/O                          |
| S-1101                                                             | IN 14A346, NEAR STARTING MOTOR RELAY                    |
| S-1103                                                             | IN 14401, NEAR GLOVE BOX T/O                            |
| S-1201                                                             | IN 14A303, NEAR STARTER MOTOR RELAY                     |
| S-1202                                                             | IN 14A303, NEAR STARTER MOTOR RELAY                     |
| ELECTRICAL SYSTEMS 1978 BRONCO POWER DISTRIBUTION                  |                                                         |
| EFFECTIVE P.C.R. SUPERSEDES DATE 7-21-77                           |                                                         |
| TRPO ELECT INST MAN PAGE EBT-900-1 SERVICE AND TRAINING MAN PAGE 1 |                                                         |





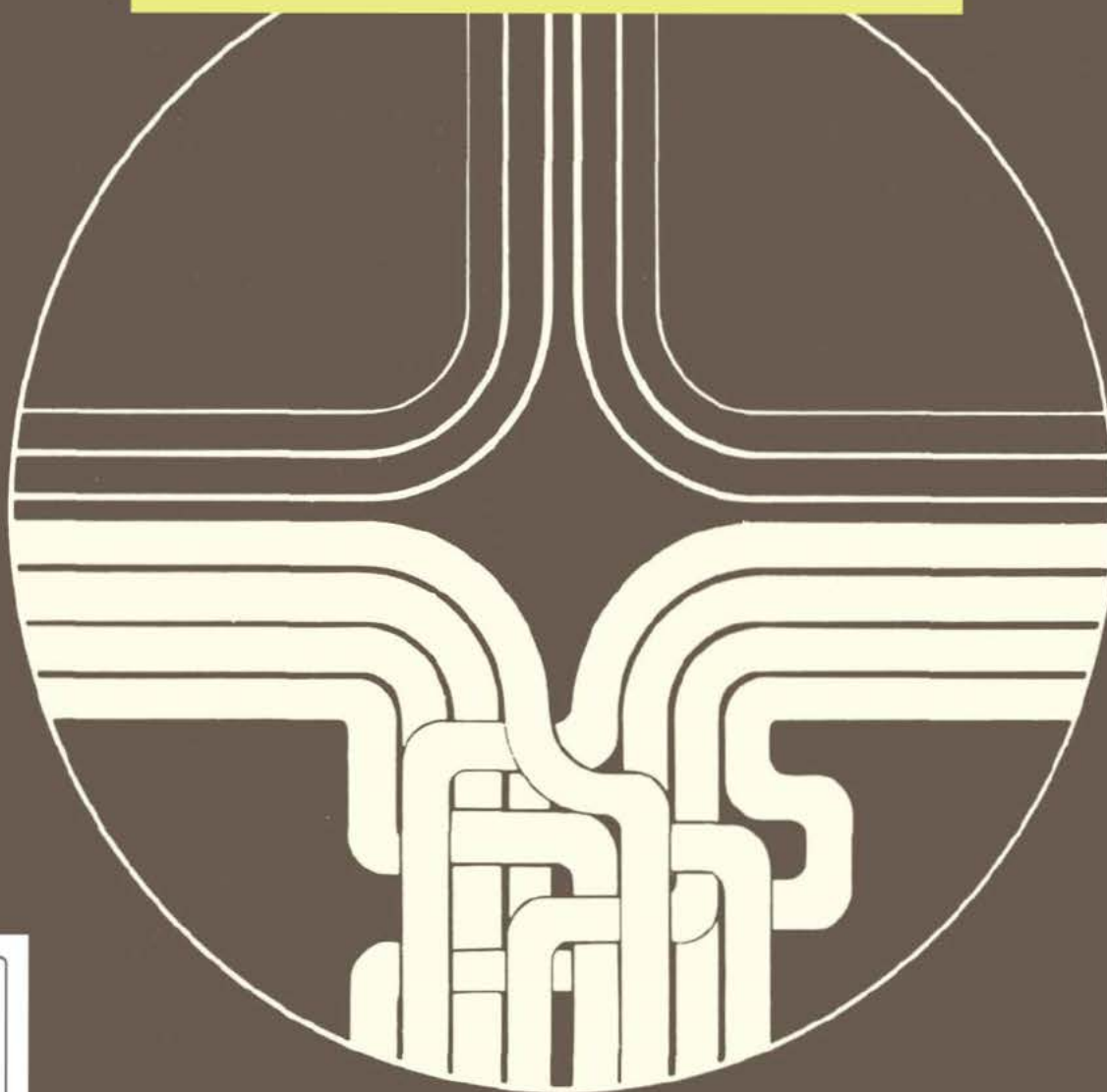


| GROUND CODES                       |                                                         |
|------------------------------------|---------------------------------------------------------|
| G-201                              | EYELET ATTACHED TO ENGINE                               |
| G-203                              | BATTERY CABLE ATTACHED TO R.H. FENDER APRON             |
| G-206                              | EYELET, ON DASH PANEL, LEFT OF CENTER                   |
| G-1201                             | EYELET, IN ENGINE COMPARTMENT, L.H. SIDE, ON DASH PANEL |
| SPICE CODES                        |                                                         |
| S-201                              | IN 14305 NEAR STARTER MOTOR RELAY                       |
| S-202                              | IN 14305 NEAR STARTER MOTOR RELAY                       |
| S-203                              | IN 14305 NEAR STARTER MOTOR RELAY                       |
| S-207                              | IN 14401, NEAR STARTER MOTOR RELAY                      |
| S-208                              | IN 14401 NEAR T/O TO IGNITION SWITCH                    |
| S-209                              | IN 15A211 NEAR JUNCTION BLOCK                           |
| S-303                              | IN 14401, BEHIND CLUSTER                                |
| S-305                              | IN 14401, NEAR T/O TO IGNITION SWITCH                   |
| S-401                              | IN 14401, NEAR IGNITION SWITCH                          |
| S-402                              | IN 14401, NEAR T/O TO ASH TRAY ILLUMINATION             |
| S-803                              | IN 19A527 NEAR STARTER MOTOR RELAY                      |
| S-1101                             | IN 14A346, NEAR STARTING MOTOR RELAY                    |
| S-1102                             | IN 14A346, NEAR STARTING MOTOR RELAY                    |
| S-1103                             | IN 14401, NEAR GLOVE BOX T/O                            |
| S-1201                             | IN 14A303, NEAR STARTER MOTOR RELAY                     |
| S-1202                             | IN 14A303, NEAR STARTER MOTOR RELAY                     |
| ELECTRICAL SYSTEMS 1978 F-100-350  |                                                         |
| POWER DISTRIBUTION                 |                                                         |
| EFFECTIVE P.C.R.                   |                                                         |
| SUPERSEDES                         |                                                         |
| DATE 8-1-77                        |                                                         |
| BEPE ELECT INST MAN PAGE E8T-900-1 |                                                         |
| SERVICE AND TRAINING MAN PAGE 1    |                                                         |



# 1978 Truck Shop Manual Volume 3 & 4 Body-Electrical

**Source Document  
Extract Only  
Volume 3 - Electrical**



Official  
Licensed  
Product

# **GROUP AND PART INDEX**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                      |
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# foreword...

This 1978 Truck Shop Manual has been prepared to provide information covering normal service repairs and maintenance for 1978 Ford Trucks manufactured in the United States and Canada. It is divided into five volumes, each covering a specific major area:

Volume 1 — Chassis

Volume 2 — Engine

Volumes 3 & 4 — Body and Electrical

Volume 5 — Pre-Delivery, Maintenance and Lubrication.

Information in each volume is divided into Groups covering a general system.

For 1978, the basic part number for components covered in the Group is also included in parenthesis after the Group number.

Example:

|                                    |                 |                                                       |
|------------------------------------|-----------------|-------------------------------------------------------|
| <u>Cooling System</u>              | <u>Group 27</u> | <u>(8000)</u>                                         |
| General System Covered<br>in Group | Group Number    | Basic Part Number<br>for Cooling System<br>Components |

Some components covered within a Group do not have the same basic part number. In these cases, more than one basic part number will appear on the Group index.

|                                    |                 |                                                              |   |                                                             |
|------------------------------------|-----------------|--------------------------------------------------------------|---|-------------------------------------------------------------|
| Example: <u>Gasoline Engines</u>   | <u>Group 21</u> | <u>(6000)</u>                                                | & | <u>9000)</u>                                                |
| General System<br>Covered in Group |                 | Basic Part<br>Number for<br>Gasoline<br>Engine<br>Components |   | Intake and<br>Exhaust Manifold<br>Basic Part<br>Number Only |

For easy reference, information in each Group has been divided into smaller units or Parts. There is one Part for each component in the system, as well as a General Service Part in some Groups to cover procedures common to several components within the Group. In general, each Part contains the Description, Operation, Diagnosis and Testing, Removal and Installation and Disassembly and Assembly procedures for the component covered in the Part. Diagnosis Charts are also included in some Parts to help you systematically locate and correct problems encountered. In most cases, specifications are included at the end of each Part.

To aid in locating specific items in this manual, the index at the front of each volume provides an alphabetical listing, with page number, for all Parts in the volume. The tab locator on the right side of this index will help you find the first page of each Group.

On the first page of each Group there is an index listing the Part title and Part number for each component covered within the Group. The first page of each Part contains an index to locate service operations covered in that Part. This Group-Part breakdown is also indicated in the page number located at the top of each page.

Example: 11-02-21 = (Group) 11 — (Part) 02 — (Page) 21

Metric conversion tables have been included at the back of each volume to aid in converting specifications in this manual to the metric equivalent.

The descriptions and specifications in this manual were in effect at the time this manual was approved for printing. Ford Motor Company reserves the right to discontinue models at any time, or change specifications or design without notice and without incurring obligation.

## **IMPORTANT SAFETY NOTICE**

Appropriate service methods and proper repair procedures are essential for the safe, reliable operation of all motor vehicles as well as the personal safety of the individual doing the work. This Shop Manual provides general directions for accomplishing service and repair work with tested, effective techniques. Following them will help assure reliability.

There are numerous variations in procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the individual doing the work. This Manual cannot possibly anticipate all such variations and provide advice or cautions as to each. Accordingly, anyone who departs from the instructions provided in this Manual must first establish that he compromises neither his personal safety nor the vehicle integrity by his choice of methods, tools or parts.



**Ford Parts and Service Division  
Training and Publications Department**

# IDENTIFICATION CODES

**GROUP  
30**

## Identification Codes

**PART  
30-00**

### APPLIES TO ALL MODELS

| SUBJECT                           | PAGE  | SUBJECT                             | PAGE  |
|-----------------------------------|-------|-------------------------------------|-------|
| RATING PLATE .....                | 00-1  | VEHICLE DATA (Cont'd)               |       |
| VEHICLE CERTIFICATION DECAL ..... | 00-1  | Exterior Paint Color Codes .....    | 00-7  |
| VEHICLE DATA .....                | 00-1  | Max. GVW Codes .....                | 00-8  |
| Assembly Plant Codes .....        | 00-6  | Sequential Serial and Warranty      |       |
| Axle Codes (Front) .....          | 00-15 | Number Codes .....                  | 00-6  |
| Axle Codes (Rear) .....           | 00-15 | Transmission Codes .....            | 00-15 |
| Body Codes .....                  | 00-12 | Truck Series Codes .....            | 00-4  |
| D.S.O. Codes .....                | 00-15 | Type/GVW Codes .....                | 00-8  |
| Engine Codes .....                | 00-5  | Wheelbase Codes .....               | 00-15 |
|                                   |       | VEHICLE IDENTIFICATION NUMBER ..... | 00-1  |

## GENERAL INFORMATION

### VEHICLE CERTIFICATION DECAL

The Vehicle Certification Decal (V.C. Decal) is attached to the rear face of the driver's door or door pillar (Fig. 1). The upper half of the decal contains the name of the manufacturer, the month and year of manufacture and the certification statement. The V.C. Decal also contains the Vehicle Identification Number.

The remaining information codes on the V.C. Decal are the same as the Truck Rating Plate Codes (Fig. 2). Vehicle codes shown on the Truck Rating Plate are explained in the following paragraphs.

### RATING PLATE

Fig. 2 illustrates a typical Truck Rating Plate. On light and medium cowl and windshield vehicles, the Rating Plate is mounted on the right side of the cowl top panel under the hood. On stripped Parcel Delivery vehicles, the rating plate is placed in an envelope stapled to the dunnage box. On Bronco models, the plate is mounted on the inside panel of the glove compartment door. On all other vehicles, the Rating Plate is mounted on the rear face of the left front door.

### VEHICLE IDENTIFICATION NUMBER (VEHICLE SERIAL AND WARRANTY)

The identification number is the first line of numbers and letters appearing on the Rating Plate (Fig. 2). The first letter and two numbers indicate the truck series code. The letter following the truck series code designates the engine identification code. The letter following the engine identification code indicates the assembly plant at which the vehicle was built. The remaining numbers indicate the consecutive unit number (Serial and Warranty Number). The charts that follow list the various vehicle identification number codes.

### VEHICLE DATA

The Vehicle Data appears on the Rating Plate on the two lines following the identification number. The first three digits under W.B. designate the wheelbase in inches. The one or two letters under COLOR identify the exterior paint color (two letters designate a two-tone). The letter and three digits under TYPE/G.V.W. designate the

truck model within a series and the gross vehicle weight rating. The letter and numerals under BODY designate the interior trim, seat and body type. The transmission installed in the vehicle is identified under TRANS by either a numeric or alphabetical code (if two symbols appear, the first identifies the auxiliary transmission, if so equipped, and the second symbol identifies the main transmission). A letter and a number or two numbers under AXLE identify the rear axle ratio (when required, a letter is also stamped behind the rear axle code to identify the front axle capacity). The maximum gross vehicle weight in pounds is stamped under MAX. G.V.W.

A two-digit number is stamped under D.S.O. to identify the district which ordered the vehicle. If the vehicle is built to special order (Domestic Special Order, Foreign Special Order, Limited Production Option, or other special order), the complete order number will also appear under D.S.O. The charts that follow Figure 2 list the various vehicle data codes.

## COMPLETE VEHICLES

## (UNITED STATES)

|                                                                                                                                                                      |                                  |                |                 |       |      |      |       |      |      |      |       |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------|-----------------|-------|------|------|-------|------|------|------|-------|-----|
| 1                                                                                                                                                                    | MFD. BY FORD MOTOR CO. IN U.S.A. | 7              |                 |       |      |      |       |      |      |      |       |     |
| 2                                                                                                                                                                    | 08/77                            | GYWR:          | 5750 LB/2608 KG |       |      |      |       |      |      |      |       |     |
| 3                                                                                                                                                                    | FRONT GAWR: 2870 LB              | REAR GAWR      | 3218 LB         |       |      |      |       |      |      |      |       |     |
| 4                                                                                                                                                                    | 1301 KG                          | WITH           | 1459 KG         |       |      |      |       |      |      |      |       |     |
| 5                                                                                                                                                                    | H78 — 15B                        | TIRES          | H78 — 15B       |       |      |      |       |      |      |      |       |     |
| 6                                                                                                                                                                    | 15 x 5.5K                        | RIMS           | 15 x 5.5K       |       |      |      |       |      |      |      |       |     |
| 8                                                                                                                                                                    | AT 30 PSI COLD                   | AT 32 PSI COLD |                 |       |      |      |       |      |      |      |       |     |
| THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.                                     |                                  |                |                 |       |      |      |       |      |      |      |       |     |
| VEH IDENT NO. E04BHAE0000                                                                                                                                            |                                  | F0187          |                 |       |      |      |       |      |      |      |       |     |
| TYPE TRUCK                                                                                                                                                           |                                  | T0571          |                 |       |      |      |       |      |      |      |       |     |
| <table border="1"> <tr> <td>COLOR</td> <td>DSO</td> <td>BODY</td> <td>TRIM</td> <td>SCH.</td> <td>DATE</td> <td>AXLE</td> <td>TRANS</td> <td>A/C</td> </tr> </table> |                                  |                |                 | COLOR | DSO  | BODY | TRIM  | SCH. | DATE | AXLE | TRANS | A/C |
| COLOR                                                                                                                                                                | DSO                              | BODY           | TRIM            | SCH.  | DATE | AXLE | TRANS | A/C  |      |      |       |     |

## (CANADA)

|                                                                                                                                                                      |     |                         |      |       |      |      |       |      |      |      |       |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|------|-------|------|------|-------|------|------|------|-------|-----|
| MFD. BY FORD MOTOR CO. OF CANADA LTD.                                                                                                                                |     |                         |      |       |      |      |       |      |      |      |       |     |
| GYWR:                                                                                                                                                                |     |                         |      |       |      |      |       |      |      |      |       |     |
| FRONT GAWR:                                                                                                                                                          |     | REAR GAWR:              |      |       |      |      |       |      |      |      |       |     |
| WITH                                                                                                                                                                 |     | WITH                    |      |       |      |      |       |      |      |      |       |     |
| TIRES                                                                                                                                                                |     | TIRES                   |      |       |      |      |       |      |      |      |       |     |
| RIMS                                                                                                                                                                 |     | RIMS                    |      |       |      |      |       |      |      |      |       |     |
| AT PSI COLD                                                                                                                                                          |     | AT PSI COLD             |      |       |      |      |       |      |      |      |       |     |
| THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE                                      |     |                         |      |       |      |      |       |      |      |      |       |     |
| VEH. IDENT. NO.                                                                                                                                                      |     | CANADA BUILT UNITS      |      |       |      |      |       |      |      |      |       |     |
| TYPE                                                                                                                                                                 |     | UTILITZE SAME TYPE DATA |      |       |      |      |       |      |      |      |       |     |
| AS U.S.A.                                                                                                                                                            |     |                         |      |       |      |      |       |      |      |      |       |     |
| <table border="1"> <tr> <td>COLOR</td> <td>DSO</td> <td>BODY</td> <td>TRIM</td> <td>SCH.</td> <td>DATE</td> <td>AXLE</td> <td>TRANS</td> <td>A/C</td> </tr> </table> |     |                         |      | COLOR | DSO  | BODY | TRIM  | SCH. | DATE | AXLE | TRANS | A/C |
| COLOR                                                                                                                                                                | DSO | BODY                    | TRIM | SCH.  | DATE | AXLE | TRANS | A/C  |      |      |       |     |
| MADE IN CANADA                                                                                                                                                       |     |                         |      |       |      |      |       |      |      |      |       |     |



DECAL APPLIED TO  
ALL CANADIAN BUILT  
UNITS.

## INCOMPLETE VEHICLES

THE INCOMPLETE VEHICLE LABEL IS ATTACHED TO A BOOKLET (INCOMPLETE VEHICLE MANUAL) AND SECURED TO A SUITABLE INTERIOR LOCATION FOR INFORMATION USE AT DESTINATION.

## (UNITED STATES)

|                                                                                                                                                                         |           |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
| THIS INCOMPLETE VEHICLE MFD. BY<br>FORD MOTOR COMPANY<br>THE AMERICAN ROAD<br>DEARBORN, MICHIGAN 48121 ON: 08/77<br>VEH. IDENT. NO. E37HHAE0002<br>GVWR 1000 LB/4335 KG |           |                |
| FRONT GAWR                                                                                                                                                              | REAR GAWR | REAR REAR GAWR |
| 4000 LB                                                                                                                                                                 | 6700 LB   | LB             |
| 1814 KG                                                                                                                                                                 | 3039 KG   | KG             |
| FRONT                                                                                                                                                                   |           | REAR           |
| 8.00 — 16.5E                                                                                                                                                            |           | 8.00 — 16.5E   |
| 16.5 x 6.0                                                                                                                                                              |           | 16.5 x 6.0     |
| 60                                                                                                                                                                      |           | 55             |
| TIRES<br>RIMS<br>PSI COLD                                                                                                                                               |           |                |
| MAY BE<br>COMPLETED AS: TRUCK BUS (NOT SCHOOL BUS)                                                                                                                      |           |                |

## (EXPORT)

|                                                                                                                                             |           |                |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
| THIS INCOMPLETE VEHICLE MFD. BY<br>FORD MOTOR COMPANY<br>THE AMERICAN ROAD<br>DEARBORN, MICHIGAN 48121 ON: 08/77<br>VEH. IDENT. NO.<br>GVWR |           |                |
| FRONT GAWR                                                                                                                                  | REAR GAWR | REAR REAR GAWR |
| FRONT                                                                                                                                       |           |                |
| REAR                                                                                                                                        |           |                |
| TIRES<br>RIMS<br>PSI COLD                                                                                                                   |           |                |
| MAY BE<br>COMPLETED AS: THIS VEHICLE MFD FOR EXPORT<br>ONLY ON DATE SHOWN ABOVE                                                             |           |                |

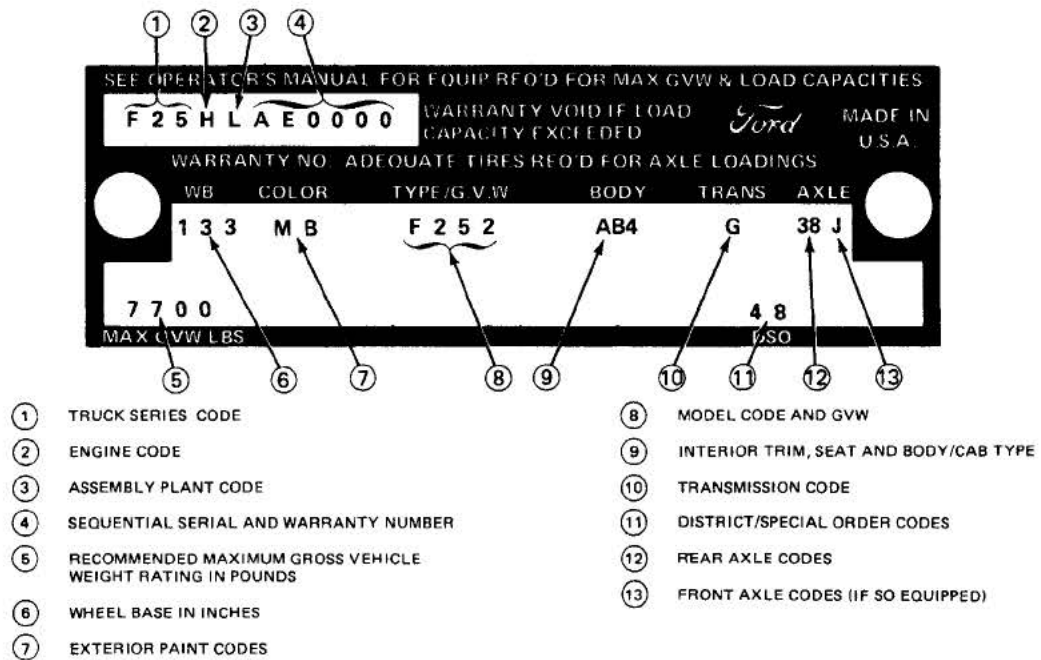
NOTE — The same information is on all safety certification decal although the location of the information on the decal may be different.

- ① Name of Manufacturer
- ② Date of Manufacture
- ③ Front Gross Axle Weight Ratings in Pounds (LB) and Kilograms (KG)
- ④ Front Tire Size
- ⑤ Rim Size
- ⑥ Front Tire Cold PSI
- ⑦ Gross Vehicle Weight Rating in Pounds (LB) and Kilograms (KG)

- ⑧ Rear Gross Axle Weight Rating in Pounds (LB) and Kilograms (KG)
- ⑨ Rear Tire Size
- ⑩ Rim Size
- ⑪ Rear Tire Cold PSI
- ⑫ Vehicle Identification Number (See Fig. 2 for details)
- ⑬ Vehicle Data (See Fig. 2 for details)

CY1813-A

FIG. 1 Typical Vehicle Certification Decal



W1017-L

FIG. 2 Typical Truck Rating Plate

## TRUCK SERIES CODES

OPERATOR'S MANUAL FOR EQUIPMENT FOR MAX GVW & LOAD CAPACITIES  
 F 25 H L A E 0 0 0 0 WARRANTY VOID IF LOAD CAPACITY EXCEEDED  
 WARRANTY NOT ADEQUATE IF THIS BOLD FOR AXLE LOADING  
 1 3 3 M B F 2 5 2 A B 4 G 3 8 J  
 7 7 0 0 4 8  
 MAX GVW LBS DSO

## BRONCO

| Code | Description       |
|------|-------------------|
| U15  | U-150 (Wagon) 4x4 |

## E-100 THRU E-350

| Conventional Code   | Super Code | Description                 |
|---------------------|------------|-----------------------------|
| <b>E-100 Series</b> |            |                             |
| E01                 | —          | E100 Club Wagon 5 Passenger |
| E02                 | —          | E100 Club Wagon 8 Passenger |
| E04                 | —          | E100 Cargo Van              |
| E05                 | —          | E100 Window Van             |
| E06                 | —          | E100 Display Van            |
| <b>E-150 Series</b> |            |                             |
| E11                 | S11        | E150 Club Wagon 5 Passenger |
| E12                 | S12        | E150 Club Wagon 8 Passenger |
| E14                 | S14        | E150 Cargo Van              |
| E15                 | S15        | E150 Window Van             |
| E16                 | S16        | E150 Display Van            |

## E-250 Series

|     |     |                              |
|-----|-----|------------------------------|
| E20 | S20 | E250 Club Wagon 11 Passenger |
| E21 | S21 | E250 Club Wagon 5 Passenger  |
| E22 | S22 | E250 Club Wagon 8 Passenger  |
| E23 | S23 | E250 Club Wagon 12 Passenger |
| —   | S29 | E250 Club Wagon 15 Passenger |
| E24 | S24 | E250 Cargo Van               |
| E25 | S25 | E250 Window Van              |
| E26 | S26 | E250 Display Van             |

## E-350 Series

|     |     |                              |
|-----|-----|------------------------------|
| E30 | S30 | E350 Club Wagon 11 Passenger |
| —   | S32 | E350 Club Wagon 8 Passenger  |
| —   | S33 | E350 Club Wagon 12 Passenger |
| —   | S39 | E350 Club Wagon 15 Passenger |
| E34 | S34 | E350 Cargo Van               |
| E35 | S35 | E350 Window Van              |
| E36 | S36 | E350 Display Van             |

## Econoline "Cutaway" Model

|     |   |              |
|-----|---|--------------|
| E27 | — | E250 Cutaway |
| E37 | — | E350 Cutaway |

## Parcel Delivery

|     |   |              |
|-----|---|--------------|
| E28 | — | E250 Cutaway |
| E38 | — | E350 Cutaway |

## F-SERIES CONVENTIONAL — GAS

| Chassis Cab Code | Pick-Up Code | Basic Series |
|------------------|--------------|--------------|
| F17              | F10          | F100         |
| F16              | F14          | F150 4x4     |
| F19              | F15          | F150         |
| F27              | F25          | F250         |
| F28              | F26          | F250 4x4     |
| F37              | F35          | F350         |

## F-SERIES SUPER CAB — GAS

| Chassis Cab Code | Pick-Up Code | Basic Series |
|------------------|--------------|--------------|
| X17              | X10          | F100         |
| X16              | X14          | F150 4x4     |
| X19              | X15          | F150         |
| X27              | X25          | F250         |
| X28              | X26          | F250 4x4     |
| X37              | X35          | F350         |

## F-600 — CONVENTIONAL — GAS

| Code | Basic Series |
|------|--------------|
| F60  | F600         |
| F61  | F600         |
| F65  | F600 4x4     |
| F66  | F600 4x4     |

## B-600 — COWL BUS — GAS

| Code | Basic Series |
|------|--------------|
| B60  | B600         |
| B61  | B600         |

## F-700 — 7000 — CONVENTIONAL

| Code | Basic Series   |
|------|----------------|
| F70  | F700 (Gas)     |
| F82  | F800 (Gas)     |
| K70  | F7000 (Diesel) |
| K71  | F7000 (Diesel) |

## B-700 — 7000 BUS CHASSIS COWL

| Code | Basic Series   |
|------|----------------|
| B70  | B700 (Gas)     |
| B71  | B700 (Gas)     |
| J70  | B7000 (Diesel) |

## P-600 — GAS

| Code | Basic Series |
|------|--------------|
| P60  | P600         |

## L-SERIES — CONVENTIONAL

| Code                     | Basic Series          |
|--------------------------|-----------------------|
| <b>L-Series — Diesel</b> |                       |
| A90                      | LT-900 (LTL 9000 DSO) |
| <b>L-Series — Gas</b>    |                       |
| F80, F81                 | L800                  |
| F90, F91                 | L900                  |

## L-SERIES — CONVENTIONAL (Cont'd)

| Code                       | Basic Series |
|----------------------------|--------------|
| <b>L-Series — Diesel</b>   |              |
| K80                        | L8000        |
| K81                        | L8000        |
| K90                        | L9000        |
| <b>LT-Series — Gas</b>     |              |
| T80, T81                   | LT800        |
| T90, T91                   | LT900        |
| <b>LT-Series — Diesel</b>  |              |
| U80, U81                   | LT8000       |
| U90, U91                   | LT9000       |
| <b>LTS-Series — Gas</b>    |              |
| V80, V81                   | LTS800       |
| V90, V91, V92              | LTS900       |
| <b>LTS-Series — Diesel</b> |              |
| Y80, Y81                   | LTS8000      |
| Y90, Y91, Y92              | LTS9000      |

## N-SERIES — SHORT CONVENTIONAL

| Code                      | Basic Series |
|---------------------------|--------------|
| <b>N-Series — Gas</b>     |              |
| N60                       | N600         |
| N61, N62                  | N600         |
| N70, N71                  | N700         |
| N75, N76                  | N750         |
| N80, N81                  | N800         |
| N90, N91                  | N900         |
| <b>N-Series — Diesel</b>  |              |
| R70, R71                  | N7000        |
| R80, R81                  | N8000        |
| R90                       | N9000        |
| <b>NT-Series — Gas</b>    |              |
| S80, S81                  | NT800        |
| S90, S91                  | NT900        |
| <b>NT-Series — Diesel</b> |              |
| W80, W81                  | NT8000       |
| W90, W91                  | NT9000       |

## C-SERIES — LOW TILT CABS

| Code                      | Basic Series |
|---------------------------|--------------|
| <b>C-Series — Gas</b>     |              |
| C60                       | C600         |
| C61                       | C600         |
| C70                       | C700         |
| C75                       | C750         |
| C80                       | C800         |
| C90, C91                  | C900         |
| <b>C-Series — Diesel</b>  |              |
| D70                       | C7000        |
| D80                       | C8000        |
| <b>CT-Series — Gas</b>    |              |
| L80                       | CT800        |
| L90, L91                  | CT900        |
| <b>CT-Series — Diesel</b> |              |
| Q80                       | CT8000       |

## ENGINE CODES

## ENGINE CODES

## GAS ENGINE CODES—BRONCO

| Code | Engine CID | Litre | Cyl. |
|------|------------|-------|------|
| H    | 351-2V     | 5.8L  | 8    |
| S    | 400-2V     | 6.6L  | 8    |

## GAS ENGINE CODES—LT. TRUCK (F-100 THRU F-350)

| Code | Engine CID | Litre | Cyl. |
|------|------------|-------|------|
| B    | 300-1V     | 4.9L  | 6    |
| G    | 302-2V     | 5.0L  | 8    |
| Z    | (DSO)      |       |      |
| H    | 351-2V     | 5.8L  | 8    |
| S    | 400-2V     | 6.6L  | 8    |
| J    | 460-4V     | 7.5L  | 8    |

## GAS ENGINE CODES—MEDIUM TRUCK (F AND B-600)

| Code | Engine CID       | Litre | Cyl. |
|------|------------------|-------|------|
| B    | 300-1V H.D.      | 4.9L  | 6    |
| D    | 330-2V X.D.      | 5.4L  | 8    |
| E    | 361-4V X.D.      | 5.9L  | 8    |
| O    | 330-2V LPG (DSO) | 5.4L  | 8    |
| W    | 361-4V LPG (DSO) | 5.9L  | 8    |
| M    | 361-2V LPG (DSO) | 5.9L  | 8    |
| X    | 391-4V LPG (DSO) | 6.4L  | 8    |
| J    | 300-2V LPG (DSO) | 4.9L  | 6    |
| Z    | (DSO)            |       |      |

## GAS ENGINE CODES—EXPORT LOW COMP.

| Code | Engine CID  | Litre | Cyl. |
|------|-------------|-------|------|
| 2    | 300-1V      | 4.9L  | 6    |
| 4    | 330-2V X.D. | 5.4L  | 8    |
| 5    | 361-2V X.D. | 5.9L  | 8    |
| 8    | 351-2V      | 5.8L  | 8    |

## GAS ENGINE CODES—E-100 THRU E-350 (ECONOLINE AND CLUB WAGON)

| Code | Engine CID                | Litre | Cyl. |
|------|---------------------------|-------|------|
| B    | 300-1V                    | 4.9L  | 6    |
| H    | 351-2V                    | 5.8L  | 8    |
| A    | 460-4V                    | 7.5L  | 8    |
| C    | 300-1V (3x6 Fuel Economy) | 4.9L  | 6    |

## GAS ENGINE CODES—700-900 SERIES AND N600-C600 PARCEL

| Code | Low Comp. Code | Engine CID  | Litre | Cyl. |
|------|----------------|-------------|-------|------|
| G    | —              | 300-1V H.D. | 4.9L  | 6    |
| D    | 4              | 330-2V H.D. | 5.4L  | 8    |
| E    | —              | 361-4V H.D. | 5.9L  | 8    |
| F    | —              | 361-4V H.D. | 5.9L  | 8    |
| J    | —              | 475-4V      | 7.8L  | 8    |
| K    | —              | 477-4V S.D. | 7.8L  | 8    |
| L    | —              | 534-4V S.D. | 8.8L  | 8    |
| Z    | —              | DSO         |       |      |

SEE OPERATOR'S MANUAL FOR EQUIP. RECD. FOR MAX. GVW & LOAD CAPACITY.

F 2 5 H L A E 0 0 0 0

WARRANTY VOID IF EXCEEDS CAPACITY EXCEEDED

WARRANTY NO. ADEQUATE TIRTS REQUIRED FOR AVE.

| WB    | COLOR | TYPE/GVW | BODY | TRAN | AX   |
|-------|-------|----------|------|------|------|
| 1 3 3 | M B   | F 2 5 2  | AB4  | G    | 38 J |

7 7 0 0

MAX GVW LBS

4 8

DSO

## DIESEL ENGINE CODES — CATERPILLAR

| CODE | CID | MODEL                         | H.P.  | RPM  |
|------|-----|-------------------------------|-------|------|
| B    | 636 | 3208                          | 175HP | 2800 |
| D    | 636 | 3208                          | 210HP | 2800 |
| Q    | 636 | 3208                          | 200HP | 2800 |
| H    | 893 | 3406                          | 280HP | 2100 |
| J    | 893 | 3406 HT                       | 280HP | 1900 |
| M    | 893 | 3406                          | 325HP | 2100 |
| C    |     | Special Order Caterpillar DSO |       |      |

## DIESEL ENGINE CODES — CUMMINS

| CODE | CID | MODEL                     | H.P.  | RPM  |
|------|-----|---------------------------|-------|------|
| 1    | 855 | NH230                     | 230HP | 2100 |
| 9    | 855 | NTC230                    | 230HP | 2100 |
| X    | 855 | NTC230                    | 230HP | 1900 |
| F    | 855 | NTC250                    | 250HP | 2100 |
| 5    | 855 | NTC250                    | 250HP | 1900 |
| K    | 855 | NTC270PT                  | 270HP | 2100 |
| V    | 855 | NTC290                    | 290HP | 2100 |
| U    | 855 | NTC290                    | 290HP | 1900 |
| 8    | 855 | NTC350                    | 320HP | 2100 |
| 3    | 855 | NTC350                    | 320HP | 1900 |
| L    | 855 | NTC350                    | 350HP | 2100 |
| P    | 855 | NTC350                    | 350HP | 1900 |
| G    | 903 | V903                      | 295HP | 2600 |
| S    |     | Special Order Cummins DSO |       |      |

## DIESEL ENGINE CODES — DETROIT

| Code | CID | Model                      | H.P.  | RPM  |
|------|-----|----------------------------|-------|------|
| 1    | 318 | 6V-53TT                    | 210HP | 2500 |
| 0    | 318 | 6V-53TT                    | 225HP | 2500 |
| 2    | 426 | 671N                       | 228HP | 2100 |
| 7    | 568 | 8V71N                      | 263HP | 2100 |
| 6    | 568 | 8V71N                      | 280HP | 2100 |
| T    | 568 | 8V71N                      | 304HP | 2100 |
| N    | 568 | 8V71T                      | 308HP | 2100 |
| E    | 568 | 8V71T                      | 335HP | 2100 |
| Y    | 568 | 8V71T                      | 350HP | 2100 |
| 4    | 568 | 8V71TT                     | 305HP | 1950 |
| A    |     | Special Order Detroit DSO  |       |      |
| Z    |     | Special Order DSO          |       |      |
| R    |     | Delete Engine (Glider) DSO |       |      |

## ASSEMBLY PLANT AND SEQUENTIAL SERIAL AND WARRANTY NUMBER CODES

## ASSEMBLY PLANT CODES

| Code | Assembly Plant |
|------|----------------|
| B    | Oakville       |
| C    | Ontario Truck  |
| E    | Mahwah         |
| H    | Lorain         |
| K    | Kansas City    |
| L    | Michigan Truck |
| N    | Norfolk        |
| R    | San Jose       |
| S    | Allen Park     |
| U    | Louisville     |
| V    | Kentucky Truck |

SEE OPERATOR'S MANUAL FOR EQUIP REQ'D FOR MAX GVW & LOAD CAPACITY

WARRANTY VOID IF LOAD CAPACITY EXCEEDED

WARRANTY VOID IF ADEQUATE TIRES REQ'D FOR AXLE LOADING

WB COLOR TYPE GVW BODY TRANS AXLE

1 3 2 M B F 2 5 2 AB4 G 38 J

7 7 0 0 4 8

MAX GVW LBS DSO

SEQUENTIAL SERIAL AND NUMBER WARRANTY NUMBER CODES  
(1978 MODEL YEAR)

## Bronco, LT Truck (F-100 Thru F-350)

| Code                | Month and Year  |
|---------------------|-----------------|
| AE0, 000 — AF9, 999 | August, 1977*   |
| AG0, 000 — AH9, 999 | September, 1977 |
| AJ0, 000 — AK9, 999 | October, 1977   |
| BA0, 000 — BB9, 999 | November, 1977  |
| BC0, 000 — BD9, 999 | December, 1977  |
| BE0, 000 — BF9, 999 | January, 1978   |
| BG0, 000 — BH9, 999 | February, 1978  |
| BJ0, 000 — BK9, 999 | March, 1978     |
| CA0, 000 — CB9, 999 | April, 1978     |
| CC0, 000 — CD9, 999 | May, 1978       |
| CE0, 000 — CF9, 999 | June, 1978      |
| CG0, 000 — CH9, 999 | July, 1978      |
| CJ0, 000 — CK9, 999 | August, 1978    |

## F- and B-800 (Kentucky Truck Plant)

| Code                | Month and Year  |
|---------------------|-----------------|
| AE0, 000 — AE4, 999 | August, 1977*   |
| AG0, 000 — AG4, 999 | September, 1977 |
| AJ0, 000 — AJ4, 999 | October, 1977   |
| BA0, 000 — BA4, 999 | November, 1977  |
| BC0, 000 — BC4, 999 | December, 1977  |
| BE0, 000 — BE4, 999 | January, 1978   |
| BG0, 000 — BG4, 999 | February, 1978  |
| BJ0, 000 — BJ4, 999 | March, 1978     |
| CA0, 000 — CA4, 999 | April, 1978     |
| CC0, 000 — CC4, 999 | May, 1978       |
| CE0, 000 — CE4, 999 | June, 1978      |
| CG0, 000 — CG4, 999 | July, 1978      |
| CJ0, 000 — CJ4, 999 | August, 1978    |

## E-100 Thru E-350 (Econoline and Club Wagon)

| Code                | Month and Year  |
|---------------------|-----------------|
| AE0, 000 — AF9, 999 | August, 1977*   |
| AG0, 000 — AH9, 999 | September, 1977 |
| AJ0, 000 — AK9, 999 | October, 1977   |
| BA0, 000 — BB9, 999 | November, 1977  |
| BC0, 000 — BD9, 999 | December, 1977  |
| BE0, 000 — BF9, 999 | January, 1978   |
| BG0, 000 — BH9, 999 | February, 1978  |
| BJ0, 000 — BK9, 999 | March, 1978     |
| CA0, 000 — CB9, 999 | April, 1978     |
| CC0, 000 — CD9, 999 | May, 1978       |
| CE0, 000 — CF9, 999 | June, 1978      |
| CG0, 000 — CH9, 999 | July, 1978      |
| CJ0, 000 — CK9, 999 | August, 1978    |

## 700Thru 9000 Series and N600 — C600 Parcel

| Code                | Month and Year  |
|---------------------|-----------------|
| AE5, 000 — AF9, 999 | August, 1977*   |
| AG5, 000 — AH9, 999 | September, 1977 |
| AJ5, 000 — AK9, 999 | October, 1977   |
| BA5, 000 — BB9, 999 | November, 1977  |
| BC5, 000 — BD9, 999 | December, 1977  |
| BE5, 000 — BF9, 999 | January, 1978   |
| BG5, 000 — BH9, 999 | February, 1978  |
| BJ5, 000 — BK9, 999 | March, 1978     |
| CA5, 000 — CB9, 999 | April, 1978     |
| CC5, 000 — CD9, 999 | May, 1978       |
| CE5, 000 — CF9, 999 | June, 1978      |
| CG5, 000 — CH9, 999 | July, 1978      |
| CJ5, 000 — CK9, 999 | August, 1978    |

\*Job #1—1978 Model Year

## EXTERIOR PAINT COLOR CODES

SEE OPERATOR'S MANUAL FOR EQUIP REQ'D FOR MAX GVW & LOAD CAPACITIES

F 2 5 H L A E 0 0 0 0

WARRANTY NO. ADEQUATE TIRES REQ'D FOR AXLE LOADINGS

WB COLOR TYPE GVW BODY TRANS AXLE

1 3 3 M B F 2 5 2 AB4 G 38 J

7 7 0 0 4 8

MAX GVW LBS DSO

| Color Code <sup>①</sup>                                   | Color              | Suffix # | Spec. #  | Ref. # |
|-----------------------------------------------------------|--------------------|----------|----------|--------|
| 1C (A)                                                    | Black              | C1A      | JASAXXA  | 1724-A |
| 1G (J)                                                    | Silver Met.        | 90P      | SPLCXXA  | 5299-A |
| 1M (V)                                                    | Med. Silver Met.   | 85P      | EPKCXXA  | 5488-A |
| 2E (T)                                                    | Candyapple Red     | 80D      | JDMAXXA  | 2008-A |
| 2J (N)                                                    | Maroon             | 65D      | JDQAXXA  | 3059-A |
| 2R (K)                                                    | Brt. Red           | 78D      | CDJAXXA  | 5440-A |
| 2V (J)                                                    | Rangoon Red        | 79D      | JDNAXXA  | 1515-A |
| 3G (S)                                                    | Brt. Dk. Blue Met. | H9B      | SBQCXXA  | 5094-A |
| 3T (I)                                                    | Brt. Med. Blue     | C8B      | QBMAXXA  | 5004-A |
| 3U (8)                                                    | Lt. Blue           | 87B      | EBLAXXA  | 5467-A |
| 46 (B)                                                    | Dk. Jade Met.      | 16K      | AKQCXXA  | 5328-A |
| 2A (F) <sup>①</sup>                                       | Coral              | 77D      | JDKAXXA  | 1730-A |
| 5Q (F) <sup>②</sup>                                       | Dk. Brown Met.     | 75T      | YTQCXXA  | 5477-A |
| 6P (U)                                                    | Cream              | 34V      | AVFAXXA  | 5406-A |
| 6S (G)                                                    | Chrome Yellow      | 07V      | JVMAXXA  | 1526-A |
| 64 (6)                                                    | Brt. Yellow        | 09V      | GVTAXXA  | 5574-A |
| 6U (X)                                                    | Lt. Tan            | 52U      | CULAXXA  | 5441-A |
| 7A (R)                                                    | Lt. Jade           | 12R      | CRJAXXA  | 5445-A |
| 7D (L)                                                    | Holly Green        | 89R      | JRQAXXA  | 1237-A |
| 7U (W)                                                    | Brt. Emerald       | 08M      | EMNAXXA  | 5500-A |
| 72 (L)                                                    | Midnight Jade      | 45R      | GRSAXXA  | 5530-A |
| 8F (Q)                                                    | Tangerine          | 13E      | CEKAXXA  | 5459-A |
| 8Q (I)                                                    | Med. Copper        | 41C      | CCMAXXA  | 5475-A |
| 82 (H)                                                    | Dk. Brown Met.     | 70T      | ZTQCXXA  | 5282-A |
| 83 (7)                                                    | Tan                | 43T      | GTJAXXA  | 5524-A |
| 9A (M)                                                    | White              | 26W      | JWFAXXA  | 1619-A |
| 9E (C)                                                    | Special White      | 32W      | JWGAXXA  | 1525-A |
| 99 (9)                                                    | Prime              | —        | XW Prime | — — —  |
| <b>Glamour Colors<sup>③</sup></b>                         |                    |          |          |        |
| 7N (Y)                                                    | Jade Met.          | 62R      | ERVDXXA  | 5505-A |
| 8U (P)                                                    | Dk. Nectarine Met. | 08T      | ETQDXXA  | 5506-A |
| <b>RPO Unique Colors<br/>(Non Polish) "D"<sup>①</sup></b> |                    |          |          |        |
| 7N (Y)                                                    | Jade Met.          | 62R      | ERVDXXA  | 5505-A |
| 8T (E)                                                    | Nectarine Met.     | 37T      | CTMDXXA  | 5507-A |
| 3V (D)                                                    | Brt. Blue Met.     | 89B      | EBMDXXA  | 5480-A |

① E-100 thru E-350 Only

② All Except E-100 thru E-350

③ Bronco, Lt Truck, Medium Truck, 100 thru 600 series only

④ Bronco, E-100 thru E-350, Light and Medium Trucks use the two digit paint identification code system (corporate code) but will only show the single code for the rating plate exterior paint color code as shown in ( ) parenthesis in the code column.

CY1815-A

## TYPE/GVW AND MAX. G.V.W. CODES

SEE OPERATOR'S MANUAL FOR EQUIP. RECD FOR MAX. LOAD & LOAD CAPACITIES

WARRANTY VOID IF LOAD CAPACITY EXCEEDED

WARRANTY NO. ADEQUATE TIRES RECD FOR AXLE LOADINGS

WB COLOR TYPE G.V.W. BODY TRANS AXLE

1 3 3 M B F 2 5 2 AB4 G 38 J

7 7 0 0 4 8

MAX GVW LBS DSO

| BRONCO                |                  |        |
|-----------------------|------------------|--------|
| Code                  | G.V.W.           |        |
| U150                  | 6100             |        |
| U151                  | 6400             |        |
| U152                  | 6550             |        |
| U153                  | 6010             |        |
| F-100 (4x2)           |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| F100                  | F170             | 4900   |
| F101                  | F171             | 4800   |
| F106                  | F176             | 5400   |
| F107                  | F177             | 5600   |
| F10N                  | F17N             | 5200   |
| F-100 (4x2) Super Cab |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| X108                  | X178             | 5700   |
| X109                  | X179             | 5800   |
| X10N                  | X17N             | 5200   |
| F-150 (4x2)           |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| F150                  | F190             | 6050   |
| F151                  | F191             | 6150   |
| F150 (4x2) Super Cab  |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| X150                  | X190             | 6050   |
| X152                  | X192             | 6200   |
| X153                  | X193             | 6400   |
| F-150 (4x4)           |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| F140                  | F160             | 6050   |
| F141                  | F161             | 6300   |
| F142                  | F162             | 6500   |
| F-150 (4x4) SUPER CAB |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| X143                  | X163             | 6400   |
| F-250 (4x2)           |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| F250                  | F270             | 6200   |
| F251                  | F271             | 6800   |
| F252                  | F272             | 7700   |
| F253                  | F273             | 7900   |
| F-250 (4x2) SUPER CAB |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| X251                  | X271             | 6800   |
| X254                  | X274             | 6300   |
| X255                  | X275             | 6550   |
| X256                  | X276             | 7800   |
| X257                  | X277             | 7050   |
| X258                  | X278             | 7600   |
| X259                  | X279             | 8100   |
| X25N                  | X27N             | 7500   |

| F-250 (4x4)           |                  |        |
|-----------------------|------------------|--------|
| Pickup Code           | Chassis Cab Code | G.V.W. |
| F263                  | F283             | 6700   |
| F264                  | F284             | 7300   |
| F265                  | F285             | 8100   |
| F266                  | F286             | 8400   |
| F-250 (4x4) SUPER CAB |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| X260                  | X280             | 7100   |
| X261                  | X281             | 7600   |
| X262                  | X282             | 8500   |
| F-350 (4x2)           |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| F351                  | F370             | 6600   |
| —                     | F371             | 6750   |
| —                     | F372             | 8000   |
| F353                  | F373             | 8200   |
| —                     | F374             | 8300   |
| —                     | F375             | 8500   |
| —                     | F376             | 8900   |
| —                     | F377             | 9500   |
| —                     | F378             | 10,000 |
| F354                  | —                | 8300   |
| F356                  | —                | 8900   |
| F359                  | —                | 9900   |
| —                     | F37N             | 10,250 |
| —                     | F37P             | 9100   |
| F-350 (4x2) SUPER CAB |                  |        |
| Pickup Code           | Chassis Cab Code | G.V.W. |
| X359                  | X379             | 9200   |
| F-600 (4x2)           |                  |        |
| Code                  | G.V.W.           |        |
| F600                  | 16,000           |        |
| F602                  | 19,200           |        |
| F603                  | 14,000           |        |
| F604                  | 16,000           |        |
| F605                  | 17,400           |        |
| F606                  | 17,400           |        |
| F611                  | 20,200           |        |
| F612                  | 21,000           |        |
| F613                  | 22,000           |        |
| F614                  | 22,000           |        |
| F615                  | 23,000           |        |
| F616                  | 24,000           |        |
| F618                  | 17,900 U-Haul    |        |
| F-600 (4x4)           |                  |        |
| Code                  | G.V.W.           |        |
| F650                  | 17,200           |        |
| F660                  | 21,700           |        |
| F661                  | 24,000           |        |
| B600 BUS (4x2)        |                  |        |
| Code                  | G.V.W.           |        |
| B600                  | 17,400           |        |
| B601                  | 19,200           |        |
| B602                  | 19,200           |        |
| B610                  | 19,700           |        |
| B611                  | 20,200           |        |
| B613                  | 21,000           |        |
| B615                  | 22,000           |        |
| B617                  | 24,500           |        |
| B618                  | 22,160           |        |
| B619                  | 23,160           |        |

## E-100 CLUB, CUSTOM, AND CHATEAU WAGONS

| Conv. Code | G.V.W. |
|------------|--------|
| E010       | 5500   |
| E012       | 5900   |
| E013       | 5700   |
| E020       | 5900   |
| E021       | 6000   |

## E-150 CLUB, CUSTOM, AND CHATEAU WAGONS

| Conv. Code | Super Code | Conv. G.V.W. | Super G.V.W. |
|------------|------------|--------------|--------------|
| —          | S110       | —            | 6025         |
| —          | S111       | —            | 6200         |
| E112       | S112       | 6200         | 6400         |
| E113       | S113       | 6400         | 6600         |
| E114       | S114       | 6500         | 6800         |
| E120       | S120       | 6300         | 6200         |
| —          | S121       | —            | 6400         |
| —          | S122       | —            | 6600         |
| E123       | S123       | 6500         | 6800         |
| E124       | —          | 6700         | —            |

## E-250 CLUB, CUSTOM, AND CHATEAU WAGONS

| Conv. Code | Super Code | Conv. G.V.W. | Super G.V.W. |
|------------|------------|--------------|--------------|
| —          | S200       | —            | 7600         |
| —          | S201       | —            | 7800         |
| —          | S202       | —            | 8000         |
| E203       | S203       | 7600         | 8300         |
| E204       | S204       | 7900         | 8500         |
| E205       | —          | 8100         | —            |
| E206       | —          | 8500         | —            |
| E207       | —          | 8900         | —            |
| —          | S210       | —            | 7000         |
| —          | S211       | —            | 7200         |
| —          | S212       | —            | 7400         |
| —          | S213       | —            | 7700         |
| E214       | S214       | 6800         | 8000         |
| E215       | —          | 7100         | —            |
| E216       | —          | 7800         | —            |
| —          | S220       | —            | 6900         |
| —          | S221       | —            | 7200         |
| E222       | S222       | 8200         | 7400         |
| —          | S223       | —            | 7700         |
| E224       | S224       | 6900         | 8000         |
| E225       | S225       | 7100         | 8300         |
| E226       | —          | 7300         | —            |
| E227       | —          | 7500         | —            |
| E228       | —          | 7700         | —            |
| —          | S230       | —            | 7600         |
| —          | S231       | —            | 7800         |
| —          | S232       | —            | 8000         |
| E233       | S233       | 7600         | 8300         |
| E234       | S234       | 7900         | 8500         |
| E235       | —          | 8100         | —            |
| E236       | —          | 8500         | —            |
| E237       | —          | 8900         | —            |
| —          | S290       | —            | 7000         |
| —          | S291       | —            | 7900         |
| —          | S292       | —            | 8100         |
| —          | S293       | —            | 8200         |
| —          | S294       | —            | 8300         |
| —          | S295       | —            | 8400         |

## E-350 CLUB, CUSTOM, AND CHATEAU WAGONS

| Code (Super) | G.V.W. |
|--------------|--------|
| S300         | 8000   |
| S301         | 8300   |
| S302         | 8800   |
| S303         | 9000   |
| S304         | 9300   |
| S320         | 7900   |
| S321         | 8100   |
| S322         | 8400   |
| S323         | 8700   |
| S324         | 9100   |
| S330         | 8000   |
| S331         | 8300   |
| S332         | 8800   |
| S333         | 9000   |
| S334         | 9300   |
| S390         | 8600   |
| S391         | 8800   |
| S392         | 9100   |
| S393         | 9400   |

## TYPE/GVW AND MAX. GVW CODES — CONTINUED

SEE OPERATOR'S MANUAL FOR TIRE RECOMMENDATIONS FOR MAX GVW & LOAD CAPACITIES  
 F 2 5 H L A E 0 0 0 0 WARRANTY VOID IF LOAD CAPACITY EXCEEDED  
 WARRANTY NO. ADEQUATE TIRES REQUIRED FOR AXLE LOADINGS  
 1 3 3 M B F 2 5 2 A B 4 G 3 8 J  
 7 7 0 0 - 4 8  
 MAX GVW LBS. DSO

## E-100 ECONOLINE CARGO, WINDOW, AND DISPLAY VANS

| Conv.<br>Cargo<br>Code | Conv.<br>Window<br>Code | Conv.<br>Display<br>Code | G.V.W. |
|------------------------|-------------------------|--------------------------|--------|
| E040                   | E050                    | E060                     | 5150   |
| E041                   | E051                    | E061                     | 5750   |

## E-150 ECONOLINE CARGO, WINDOW, AND DISPLAY VANS

| Conv.<br>Cargo<br>Code | Super<br>Cargo<br>Code | Conv.<br>Window<br>Code | Super<br>Window<br>Code | Conv.<br>Display<br>Code | Super<br>Display<br>Code | G.V.W.<br>(Conv.) | G.V.W.<br>(Super) |
|------------------------|------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-------------------|-------------------|
| —                      | S140                   | —                       | S150                    | —                        | S160                     | —                 | 6050              |
| E141                   | —                      | E151                    | —                       | E161                     | —                        | 6100              | —                 |
| E142                   | —                      | E152                    | —                       | E162                     | —                        | 6300              | —                 |

## E-250 ECONOLINE CARGO, WINDOW, AND DISPLAY VANS

| Conv.<br>Cargo<br>Code | Super<br>Cargo<br>Code | Conv.<br>Window<br>Code | Super<br>Window<br>Code | Conv.<br>Display<br>Code | Super<br>Display<br>Code | G.V.W.<br>(Conv.) | G.V.W.<br>(Super) |
|------------------------|------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-------------------|-------------------|
| —                      | S240                   | —                       | S250                    | —                        | S260                     | —                 | 6500              |
| E241                   | S241                   | E251                    | S251                    | E261                     | S261                     | 7550              | 7100              |
| —                      | S242                   | —                       | S252                    | —                        | S262                     | —                 | 7900              |
| E243                   | —                      | E253                    | —                       | E263                     | —                        | 6750              | —                 |
| E244                   | —                      | E254                    | —                       | E264                     | —                        | 8250              | —                 |

## E-250 CUTAWAY VAN

| Code | G.V.W. |
|------|--------|
| E270 | 8400   |

## E-250 CUTAWAY PARCEL DELIVERY VAN

| Code | G.V.W. |
|------|--------|
| E280 | 7700   |

## E-350 ECONOLINE CARGO, WINDOW, AND DISPLAY VANS

| Conv.<br>Cargo<br>Code | Super<br>Cargo<br>Code | Conv.<br>Window<br>Code | Super<br>Window<br>Code | Conv.<br>Display<br>Code | Super<br>Display<br>Code | G.V.W.<br>(Conv.) | G.V.W.<br>(Super) |
|------------------------|------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-------------------|-------------------|
| —                      | S340                   | —                       | S350                    | —                        | S360                     | —                 | 8100              |
| —                      | S341                   | —                       | S351                    | —                        | S361                     | —                 | 9100              |
| —                      | S342                   | —                       | S352                    | —                        | S362                     | —                 | 9400              |
| E343                   | —                      | E353                    | —                       | E363                     | —                        | 8550              | —                 |
| E344                   | —                      | E354                    | —                       | E364                     | —                        | 9500              | —                 |
| E345                   | —                      | E355                    | —                       | E365                     | —                        | 9800              | —                 |

## E-350 CUTAWAY VAN

| Code | G.V.W.           |
|------|------------------|
| E370 | 8700 Single Rear |
| E371 | 9650 Single Rear |
| E372 | 8750 Dual Rear   |
| E374 | 11,000 Dual Rear |
| E375 | 10,000 Dual Rear |
| E376 | 10,100 Dual Rear |

## E-350 CUTAWAY PARCEL DELIVERY VAN

| Code | G.V.W.           |
|------|------------------|
| E380 | 8750 Dual Rear   |
| E382 | 10,000 Dual Rear |
| E383 | 10,500 Dual Rear |
| E384 | 9800 Dual Rear   |

## TYPE/GVW AND MAX. G.V.W. CODES — CONTINUED

SEE OPERATOR'S MANUAL FOR CODES AND WEIGHTS. (SEE PAGE 30-00-10)

**F 2 5 H L A E 0 0 0 0**

VARIANTS NOT APPLICABLE FOR THIS TYPE OF CHASSIS

1 3 3 M B F 2 5 2 AB4 G 38 J

7 7 0 0 4 8

| B-700 BUS CHASSIS COWL — GAS |        |
|------------------------------|--------|
| Code                         | G.V.W. |
| B702                         | 23,160 |
| B705                         | 25,080 |
| B706                         | 24,500 |
| B707                         | 25,250 |
| B708                         | 27,080 |
| B709                         | 26,500 |
| B710                         | 27,250 |

| B-7000 BUS CHASSIS COWL — DIESEL |        |
|----------------------------------|--------|
| J707                             | 26,500 |
| J708                             | 27,250 |
| J709                             | 27,080 |

| F-700 — GAS |        |
|-------------|--------|
| F701        | 21,000 |
| F703        | 23,000 |
| F704        | 24,000 |
| F706        | 25,500 |
| F707        | 25,000 |
| F708        | 27,000 |
| F709        | 27,500 |

| F-800 — GAS |        |
|-------------|--------|
| F820        | 23,000 |
| F821        | 25,000 |
| F822        | 25,500 |
| F823        | 27,000 |
| F824        | 27,500 |
| F825        | 29,000 |
| F826        | 31,000 |
| F827        | 32,000 |

| F-7000 — DIESEL |        |
|-----------------|--------|
| K703            | 23,000 |
| K705            | 24,000 |
| K706            | 25,500 |
| K707            | 27,500 |
| K708            | 25,000 |
| K709            | 27,000 |
| K710            | 21,000 |

| L-800 — GAS |        |
|-------------|--------|
| F800        | 23,000 |
| F801        | 25,000 |
| F803        | 25,500 |
| F804        | 27,500 |
| F805        | 29,000 |

| L-800 — GAS (Cont'd) |        |
|----------------------|--------|
| F806                 | 31,000 |
| F807                 | 32,000 |
| F808                 | 34,000 |
| F809                 | 35,000 |
| F811                 | 31,800 |
| F812                 | 27,000 |

| L-900 — GAS |        |
|-------------|--------|
| F900        | 25,500 |
| F902        | 27,500 |
| F905        | 31,000 |
| F906        | 32,000 |
| F908        | 34,000 |
| F909        | 35,000 |
| F912        | 23,000 |
| F913        | 31,800 |

| L-8000 — GAS |        |
|--------------|--------|
| K802         | 25,500 |
| K803         | 27,000 |
| K805         | 31,000 |
| K806         | 32,000 |
| K807         | 34,000 |
| K808         | 35,000 |
| K812         | 23,100 |
| K813         | 31,800 |

| L-9000 — GAS |        |
|--------------|--------|
| K902         | 32,000 |
| K904         | 35,000 |
| K907         | 28,000 |
| K908         | 31,000 |

| LT-800 — GAS |        |
|--------------|--------|
| T804         | 43,000 |
| T806         | 46,000 |
| T811         | 41,000 |
| T812         | 44,800 |

| LT-900 — GAS |        |
|--------------|--------|
| T900         | 39,000 |
| T902         | 41,000 |
| T904         | 43,000 |
| T906         | 46,000 |
| T907         | 50,000 |
| T908         | 50,000 |
| T909         | 54,000 |

| LT-900 — GAS (Cont'd) |        |
|-----------------------|--------|
| T911                  | 60,000 |
| T914                  | 44,800 |
| T915                  | 48,000 |
| T916                  | 52,000 |
| T917                  | 58,000 |

| LT-8000 — DIESEL |        |
|------------------|--------|
| U800             | 39,000 |
| U805             | 46,000 |
| U806             | 50,000 |
| U807             | 50,000 |
| U808             | 54,000 |
| U809             | 60,000 |
| U810             | 55,000 |
| U811             | 56,000 |
| U812             | 62,000 |
| U815             | 41,000 |
| U816             | 44,800 |
| U817             | 61,000 |

| LT-9000 — DIESEL |        |
|------------------|--------|
| U900             | 43,000 |
| U903             | 46,000 |
| U904             | 50,000 |
| U905             | 50,000 |
| U906             | 54,000 |
| U907             | 58,000 |
| U908             | 60,000 |
| U909             | 60,000 |
| U910             | 62,000 |
| U911             | 52,000 |
| U912             | 62,000 |
| U913             | 72,000 |
| U914             | 44,800 |
| U915             | 61,000 |
| U916             | 48,000 |
| U917             | 58,000 |
| U918             | 74,000 |
| U919             | 76,000 |

| LTS-800 — GAS |        |
|---------------|--------|
| V804          | 46,000 |
| V809          | 41,000 |
| V810          | 44,000 |

| LTS-900 — GAS |        |
|---------------|--------|
| V900          | 39,000 |
| V904          | 46,000 |

| LTS-900 — GAS (Cont'd) |        |
|------------------------|--------|
| V905                   | 50,000 |
| V906                   | 50,000 |
| V907                   | 52,000 |
| V908                   | 54,000 |
| V909                   | 56,000 |
| V911                   | 58,000 |
| V912                   | 60,000 |
| V913                   | 62,000 |
| V914                   | 64,000 |
| V915                   | 61,000 |
| V918                   | 41,000 |
| V920                   | 48,000 |

| LT-9000 — GAS |        |
|---------------|--------|
| A900          | 44,800 |
| A901          | 46,000 |
| A902          | 48,000 |
| A903          | 50,000 |
| A904          | 50,000 |
| A905          | 52,000 |
| A906          | 54,000 |
| A907          | 58,000 |
| A908          | 60,000 |

| LTS-9000 — GAS |        |
|----------------|--------|
| Y900           | 44,800 |
| Y901           | 58,000 |
| Y902           | 60,000 |
| Y903           | 50,000 |
| Y904           | 50,000 |
| Y905           | 52,000 |
| Y906           | 54,000 |
| Y907           | 56,000 |
| Y908           | 61,000 |
| Y909           | 58,000 |
| Y910           | 60,000 |
| Y911           | 62,000 |
| Y912           | 62,000 |
| Y913           | 72,000 |
| Y914           | 74,000 |
| Y915           | 76,000 |
| Y916           | 78,000 |
| Y917           | 77,100 |
| Y918           | 70,000 |
| Y919           | 48,000 |
| Y920           | 79,100 |
| Y921           | 81,100 |

## TYPE/GVW AND MAX. G.V.W. CODES — (CONTINUED)

SEE OPERATOR'S MANUAL FOR EQUIPMENT FOR MAX GVW & LOAD CAPACITIES

**F 2 5 H L A E 0 0 0 0** WARRANTY VOID IF LOAD CAPACITY EXCEEDED *Ford* MADE IN U.S.A.

WARRANTY NO. ADEQUATE TIRE USED FOR AXLE LOADINGS

VR COLOR TYPE GVW BODY TRANS AXLE

**1 3 3 M B F 2 5 2 AB4 G 38 J**

**7 7 0 0** **4 8**

MAX GVW LBS DSO

| LTS-8000 — DIESEL |        |
|-------------------|--------|
| Code              | G.V.W. |
| Y800              | 39,000 |
| Y804              | 46,000 |
| Y805              | 50,000 |
| Y806              | 50,000 |
| Y807              | 52,000 |
| Y808              | 54,000 |
| Y812              | 60,000 |
| Y814              | 64,000 |
| Y815              | 55,000 |
| Y816              | 56,000 |
| Y817              | 61,000 |
| Y818              | 41,000 |
| Y819              | 62,000 |
| N-600 — GAS       |        |
| N601              | 16,500 |
| N602              | 19,500 |
| N603              | 21,500 |
| N612              | 23,000 |
| N615              | 24,000 |
| N620              | 22,000 |
| N-700 — GAS       |        |
| N702              | 23,000 |
| N703              | 25,500 |
| N705              | 27,000 |
| N706              | 27,500 |
| N707              | 25,000 |
| N710              | 21,000 |
| N712              | 24,000 |
| N-800 — GAS       |        |
| N800              | 23,000 |
| N801              | 25,000 |
| N803              | 25,500 |
| N804              | 27,500 |
| N805              | 29,000 |
| N806              | 31,000 |
| N807              | 27,000 |
| N808              | 34,000 |
| N813              | 31,800 |
| N814              | 32,000 |
| N815              | 35,000 |

| N-900 — GAS  |        |
|--------------|--------|
| Code         | G.V.W. |
| N900         | 25,500 |
| N902         | 27,500 |
| N905         | 31,000 |
| N906         | 32,000 |
| N908         | 34,000 |
| N909         | 35,000 |
| N911         | 23,100 |
| N912         | 31,800 |
| N-7000 — GAS |        |
| R702         | 23,000 |
| R704         | 25,500 |
| R705         | 25,000 |
| R707         | 27,500 |
| R708         | 27,000 |
| R710         | 21,000 |
| R712         | 24,000 |
| N-8000 — GAS |        |
| R802         | 25,500 |
| R803         | 27,500 |
| R805         | 31,000 |
| R806         | 32,000 |
| R807         | 34,000 |
| R808         | 35,000 |
| R810         | 23,100 |
| R811         | 31,800 |
| N-9000 — GAS |        |
| R902         | 32,000 |
| R904         | 35,000 |
| R906         | 28,000 |
| R907         | 31,800 |
| NT-800 — GAS |        |
| S804         | 43,000 |
| S806         | 46,000 |
| S811         | 41,000 |
| S812         | 44,800 |
| NT-900 — GAS |        |
| S900         | 39,000 |
| S902         | 41,000 |
| S904         | 43,000 |
| S906         | 46,000 |
| S907         | 50,000 |
| S909         | 54,000 |
| S914         | 44,800 |
| S915         | 48,000 |
| S916         | 52,000 |

| NT-8000 — DIESEL |        |
|------------------|--------|
| Code             | G.V.W. |
| W800             | 39,000 |
| W803             | 56,000 |
| W804             | 62,000 |
| W805             | 46,000 |
| W806             | 50,000 |
| W807             | 50,000 |
| W808             | 54,000 |
| W812             | 41,000 |
| W814             | 44,800 |
| W815             | 55,000 |
| W816             | 60,000 |
| W817             | 61,000 |
| NT-9000 — DIESEL |        |
| W903             | 46,000 |
| W904             | 50,000 |
| W906             | 54,000 |
| W907             | 43,000 |
| W910             | 58,000 |
| W911             | 44,800 |
| W912             | 48,000 |
| W913             | 52,000 |
| W914             | 60,000 |
| W915             | 62,000 |
| W916             | 72,000 |
| W917             | 74,000 |
| W918             | 76,000 |
| P-600 — GAS      |        |
| P600             | 15,000 |
| P603             | 12,000 |
| P602             | 17,000 |
| P605             | 17,000 |
| C-600 — GAS      |        |
| C602             | 17,000 |
| C612             | 23,000 |
| C613             | 24,000 |
| C617             | 21,200 |
| C-700 — GAS      |        |
| C700             | 24,000 |
| C701             | 25,000 |
| C702             | 25,500 |
| C703             | 27,000 |
| C704             | 27,500 |
| C705             | 21,000 |

| C-800 — GAS      |        |
|------------------|--------|
| Code             | G.V.W. |
| C802             | 27,500 |
| C803             | 31,000 |
| C804             | 34,000 |
| C807             | 25,100 |
| C-900 — GAS      |        |
| C904             | 25,100 |
| C906             | 31,000 |
| C907             | 32,000 |
| C910             | 34,000 |
| C912             | 37,000 |
| C914             | 25,100 |
| C915             | 39,000 |
| C-7000 — GAS     |        |
| D701             | 21,000 |
| D702             | 25,500 |
| D703             | 24,000 |
| D704             | 25,000 |
| D705             | 27,500 |
| D706             | 27,000 |
| D708             | 23,000 |
| C-8000 — GAS     |        |
| D802             | 27,500 |
| D806             | 25,100 |
| D807             | 32,000 |
| D808             | 35,000 |
| CT-800 — GAS     |        |
| L801             | 42,860 |
| L803             | 44,000 |
| L805             | 45,000 |
| L807             | 46,000 |
| L808             | 48,000 |
| L809             | 50,000 |
| CT-900 — GAS     |        |
| L901             | 42,860 |
| L902             | 44,000 |
| L903             | 45,000 |
| L914             | 46,000 |
| L915             | 48,000 |
| L916             | 50,000 |
| L917             | 52,000 |
| L918             | 54,000 |
| L919             | 50,000 |
| CT-9000 — DIESEL |        |
| Q801             | 42,860 |
| Q803             | 45,000 |
| Q804             | 44,000 |
| Q805             | 41,000 |
| Q807             | 46,000 |
| Q808             | 48,000 |
| Q809             | 50,000 |

## BODY CODES (BRONCO, LIGHT TRUCK, MEDIUM TRUCK, SCHOOL BUS, 100 THRU 600 SERIES)

SEE OPERATOR'S MANUAL FOR EQUIP. REC'D FOR MAX. GVW & LOAD CAPACITIES

**F 2 5 H L A E 0 0 0 0** WARRANTY VOID IF LOAD CAPACITY EXCEEDED *Ford* MADE IN U.S.A.

WARRANTY NO. ADEQUATE TIRES REQ'D FOR AXLE LOADINGS

| WB | COLOR | TYPE | GVW | BODY    | TRANS | AXLE   |
|----|-------|------|-----|---------|-------|--------|
| 1  | 3     | M    | B   | F 2 5 2 | AB4   | G 38 J |

7 7 0 0 MAX GVW LBS 4 8 DSO

BODY

On Cowl/Windshield Bus & Parcel Units the first two spaces remain blank.

## TRIM CODE (Material and Seat Type)

| Bronco Custom            |                       |                                    | Ranger           |                               |  |
|--------------------------|-----------------------|------------------------------------|------------------|-------------------------------|--|
| Code                     | Trim Type             |                                    | Code             | Bench Trim Type               |  |
| A                        | Vinyl                 | Bucket                             | B                | Vinyl                         |  |
| B                        | Vinyl                 | Bench                              | E                | Knit & Vinyl                  |  |
|                          |                       |                                    | H                | Leather Grain Vinyl           |  |
|                          |                       |                                    | K                | B/Cloth & Vinyl (LGO Decor)   |  |
|                          |                       |                                    | P                | Vinyl (Youth Package)         |  |
|                          |                       |                                    | Q                | B/Cloth and Vinyl             |  |
|                          |                       |                                    | U                | Knit and Vinyl                |  |
|                          |                       |                                    | Z                | Knit and Vinyl                |  |
| Bronco Ranger            |                       |                                    | Ranger XLT Bench |                               |  |
| C                        | Vinyl                 | Bucket                             | C                | B/Cloth and Vinyl             |  |
| D                        | B/Cloth and Vinyl     | Bucket                             | F                | Knit and Vinyl                |  |
| E                        | Vinyl                 | Bench                              | J                | Leather Grain Vinyl           |  |
| F                        | B/Cloth and Vinyl     | Bench                              | K                | B/Cloth and Vinyl (LGO Decor) |  |
|                          |                       |                                    | L                | Vinyl                         |  |
|                          |                       |                                    | P                | Vinyl (Youth Package)         |  |
|                          |                       |                                    | V                | Knit and Vinyl                |  |
| Light Truck Custom Bench |                       |                                    |                  |                               |  |
| A                        | Vinyl                 |                                    |                  |                               |  |
| D                        | Knit & Vinyl          |                                    |                  |                               |  |
| G                        | Leather Grain Vinyl   |                                    |                  |                               |  |
| P                        | Vinyl (Youth Package) |                                    |                  |                               |  |
| F600 Cabs                |                       |                                    |                  |                               |  |
| A                        | Vinyl                 | Standard Trim Standard Cab         | L/B Bench        |                               |  |
| D                        | Knit and Vinyl        | Optional Trim Standard Cab         | L/B Bench        |                               |  |
| E                        | Knit and Vinyl        | Optional Custom Cab                |                  |                               |  |
| G                        | Leather Vinyl         | Optional Heavy Duty Standard Cab   |                  |                               |  |
| H                        | Leather Vinyl         | Optional Heavy Duty Custom Cab     | L/B Bench        |                               |  |
| K                        | Leather Vinyl         | Optional Bostrom Seat Standard Cab | L/B Bench        |                               |  |
| L                        | Leather Vinyl         | Optional Bostrom Seat Custom Cab   |                  |                               |  |

## TRIM COLOR CODES

With HD Vinyl Opt. (Black Seat Only)

| Code | Color  | Code | Color  |
|------|--------|------|--------|
| Q    | Blue   | A    | Black  |
| N    | Red    | B    | Blue   |
| 5    | Jade   | D    | Red    |
| 9    | Saddle | R    | Jade   |
|      |        | Z    | Saddle |

## BODY TYPE CODE

| F100-350            |                |              |                   | F/B 600 |                                       |
|---------------------|----------------|--------------|-------------------|---------|---------------------------------------|
| 6-Man Crew Cab Code | Super Cab Code | Regular Code | Specifications    | Code    | Specifications                        |
| —                   | —              | 3            | Flareside Pick-Up | 7       | Cowl                                  |
| D                   | M              | 4            | Styleside Pick-Up | 8       | Chassis Cab Steel Regular             |
| —                   | —              | 5            | Platform Stake    | G       | Chassis Crew Cab                      |
| G                   | P              | 8            | Chassis Cab       | 6       | Chassis Cab Steel, Fire Truck Regular |
| —                   | —              | 9            | Platform          |         |                                       |

## BODY CODES (E-100 THRU E-350)

SEE OPERATOR'S MANUAL FOR EQUIP REQ'D FOR MAX GVW & LOAD CAPACITIES

**F 2 5 H L A E 0 0 0 0** WARRANTY VOID IF LOAD CAPACITY EXCEEDED *Ford* MADE IN U.S.A.

WARRANTY NO. ADEQUATE TIRES REQ'D FOR AXLE LOADINGS

| WB    | COLOR | TYPE    | GVW | BODY | TRANS | AXLE |
|-------|-------|---------|-----|------|-------|------|
| 1 3 3 | M B   | F 2 5 2 |     | AB4  | G     | 38 J |

7 7 0 0 MAX GVW LBS 4 8 DSO

BODY

## TRIM CODE (Material and Seat Type)

| Cutaway,<br>Wagons and<br>Vans with<br>Pass. Seat<br>Codes | Cutaway<br>Vans<br>Driver<br>Only<br>Code | Cutaway<br>Vans with<br>Jump<br>Seat<br>Code | Trim Scheme          |               |
|------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------------|---------------|
| A                                                          | V                                         | Z                                            | A Vinyl              | Bucket        |
| B                                                          | W                                         | —                                            | B Vinyl              | Bucket        |
| C                                                          | X                                         | —                                            | C B/Cloth & Vinyl    | Bucket        |
| D                                                          | Y                                         | —                                            | D Vinyl              | Bucket        |
| F                                                          | —                                         | —                                            | F Vinyl              | Captain Chair |
| G                                                          | —                                         | —                                            | G Vinyl              | Captain Chair |
| H                                                          | —                                         | —                                            | H B/Cloth & Vinyl    | Captain Chair |
| J                                                          | —                                         | —                                            | J Vinyl              | Captain Chair |
| K                                                          | —                                         | —                                            | K Vilon Knit & Vinyl | Captain Chair |
| L                                                          | —                                         | —                                            | L Vilon Knit & Vinyl | Captain Chair |
| M                                                          | —                                         | —                                            | M Vilon Knit & Vinyl | Captain Chair |

## TRIM COLOR CODES

| Code | Color |
|------|-------|
| A    | Black |
| B    | Blue  |
| R    | Jade  |
| U    | Tan   |

BLANK (Not used on Econoline)

## BODY CODES (700 THRU 9000 SERIES, N600 — C800 PARCEL)

SEE OPERATOR'S MANUAL FOR EQUIP RECD FOR MAX GVW & LOAD CAPACITIES

F 2 5 H L A E 0 0 0 0

WARRANTY VOID IF LOAD CAPACITY EXCEEDED

WARRANTY NO. ADEQUATE TIRES RECD FOR AXLE LOADINGS

VR COLOR TYPE GVW BODY TRANS AXLE

1 3 3 M B F 2 5 2 AB4 G 38 J

7 7 0 0 4 8

MAX GVW LBS DSO

## CAB TRIM CODE

| Custom Trim Code | Standard Trim Code | Color   |
|------------------|--------------------|---------|
| A                | 1                  | Gray    |
| B                | 2                  | Blue    |
| C                | 3                  | Saddle  |
| D                | 4                  | Black   |
| E                | 5                  | Red     |
| F                | 6                  | Jade    |
| H                | 8                  | Tobacco |

On cowl/bus units the first two spaces remain blank

BODY

## SEAT TYPE CODE

| HD Black Vinyl Seat Code | W/Comp. Pass. Seat Code | Single Driver Seat Code | Bench Seat Code | Seat Type                  |
|--------------------------|-------------------------|-------------------------|-----------------|----------------------------|
| A                        | —                       | —                       | 1               | Bench Seat                 |
| B                        | —                       | —                       | 2               | Bench Custom Seat          |
| —                        | C                       | 3                       | —               | L-S (Unison Action)        |
| —                        | D                       | 4                       | —               | L-S #675                   |
| —                        | E                       | 5                       | —               | Bostrom Westcoaster        |
| —                        | F                       | 6                       | —               | Bostrom T-Bar              |
| —                        | G                       | —                       | —               | National Cush-n-Aire Lo/Bk |
| —                        | H                       | 8                       | —               | Bostrom Levelaire          |
| —                        | I                       | 9                       | —               | National Cush-n-Aire Hi/Bk |

## BODY TYPE CODE

| Sleeper W/Foam Mattress Code | Less Mattress Code | Body Type                                 |
|------------------------------|--------------------|-------------------------------------------|
| —                            | —                  | 0 Parcel                                  |
| —                            | —                  | 2 Chassis Cab/w Butterfly Hood            |
| —                            | —                  | 7 Cowl                                    |
| A                            | Y                  | 8 Chassis Cab, Steel                      |
| —                            | —                  | 6 Fire Truck/Emergency CC Steel           |
| —                            | —                  | 3 Chassis Cab w/Butterfly Hood Fire Truck |

## WHEELBASE, TRANSMISSION, AXLE, AND D.S.O. CODES

SEE OPERATOR'S MANUAL FOR EQUIP. RECD FOR MAX GVW & LOAD CAPACITIES

**F 2 5 H L A E 0 0 0 0** WARRANTY VOID IF LOAD CAPACITY EXCEEDED *Ford* MADE IN U.S.A.

WARRANTY NO. ADEQUATE TIRES RECD FOR AXLE LOADINGS

| WB    | COLOR | TYPE    | GVW | BODY | TRANS | AXLE |
|-------|-------|---------|-----|------|-------|------|
| 1 3 3 | M B   | F 2 5 2 |     | AB4  | G     | 38 J |

7 7 0 0 MAX GVW LBS

4 8 DSO

## WHEEL BASE

Wheel Base of the vehicle in inches.

## TRANSMISSION CODES

Refer to Volume 1 (Group 10-00), Volume 2 (Group 20-00), or Volume 5 (Group 50-00) for a complete list of transmission codes.

## AXLE CODES

Refer to Volume 1 (Group 10-00), Volume 2 (Group 20-00), or Volume 5 (Group 50-00) for a complete list of front and rear axle codes.

## DISTRICT SALES OFFICE (DSO) CODE

## DSO — FSO — PTO (DOMESTIC, FOREIGN AND SPECIAL ORDER)

The D.S.O. space will show a two digit code number of the district which ordered the unit (see chart below). This code will appear on all units — domestic or export. If unit is built on a D.S.O., E.S.O., P.T.O., (special orders) the complete order number is under the D.S.O. space after the district code.

## DISTRICT CODES

|                 |                 |                            |                             |                     |
|-----------------|-----------------|----------------------------|-----------------------------|---------------------|
| 11 Boston       | 41 Chicago      | 71 Los Angeles             | <b>Ford of Canada</b>       |                     |
| 12 Buffalo      | 42 Cleveland    | 72 San Jose                |                             |                     |
| 13 New York     | 43 Milwaukee    | 73 Salt Lake City          | <b>Mercury Regions</b>      | <b>Ford Regions</b> |
| 14 Pittsburgh   | 45 Lansing      | 74 Seattle                 | A1 Central                  | B1 Central          |
| 15 Newark       | 46 Indianapolis | 75 Phoenix                 | A2 Eastern                  | B2 Eastern          |
| 16 Philadelphia | 47 Cincinnati   | 76 Denver                  | A3 Atlantic                 | B3 Atlantic         |
| 17 Washington   | 48 Detroit      |                            | A4 Midwestern               | B4 Midwestern       |
| 21 Atlanta      | 52 Dallas       | 83 Government              | A6 Western                  | B6 Western          |
| 22 Charlotte    | 53 Kansas City  | 84 Home Office Reserve     | A7 Pacific                  | B7 Pacific          |
| 23 Memphis      | 54 Omaha        | 85 American Red Cross      | 12 Export                   | 12 Export           |
| 24 Jacksonville | 55 St. Louis    | 89 Transportation Services | Note: Export Alphabetical 1 |                     |
| 25 Richmond     | 56 Davenport    | 87 Body Company            |                             |                     |
| 26 New Orleans  | 57 Houston      | 90's Export                |                             |                     |
| 28 Louisville   | 58 Twin Cities  |                            |                             |                     |

# CHARGING SYSTEM

**GROUP**  
**31**  
(10000)

| PART TITLE                                | PART NO. | PART TITLE            | PART NO. |
|-------------------------------------------|----------|-----------------------|----------|
| Alternator Electro-Mechanical             |          | E.E.D. Rear Terminal  |          |
| Regulator . . . . .                       | 31-40    | Alternator . . . . .  | 31-10    |
| Alternator Transistorized                 |          | G.P.D. Side Terminal  |          |
| Regulator . . . . .                       | 31-41    | Alternator . . . . .  | 31-12    |
| Batteries . . . . .                       | 31-02    | Leece-Neville         |          |
| Charging System General Service . . . . . | 31-01    | Alternators . . . . . | 31-21    |

## Charging System General Service

**PART**  
**31-01**

### APPLIES TO ALL MODELS

| SUBJECT                             | PAGE | SUBJECT                                 | PAGE |
|-------------------------------------|------|-----------------------------------------|------|
| DESCRIPTION AND OPERATION . . . . . | 01-1 | TESTING . . . . .                       | 01-4 |
| Fuse Link . . . . .                 | 01-1 | Alternator Indicator                    |      |
| DIAGNOSIS . . . . .                 | 01-2 | Light (Alt.) . . . . .                  | 01-5 |
| Battery Check . . . . .             | 01-2 | Ammeter Test . . . . .                  | 01-5 |
| Charging System Check . . . . .     | 01-2 | Battery Drain Test . . . . .            | 01-5 |
| Diagnosis Guides . . . . .          | 01-3 | Bench Tests . . . . .                   | 01-6 |
| Isolating the Problem . . . . .     | 01-2 | Charging System Fuse Link . . . . .     | 01-8 |
| Preliminary Information . . . . .   | 01-2 | General Charging System Tests . . . . . | 01-5 |
|                                     |      | On Vehicle Tests . . . . .              | 01-4 |

## DESCRIPTION AND OPERATION

The alternator charging system is a negative ground system, and consists of an alternator, regulator, charge indicator, storage battery, fuse link and associated wiring. Refer to the Wiring Diagram Manual for schematics and locations of wiring harnesses.

### FUSE LINK

The fuse link used on the Bronco, Econoline, Club Wagons, Parcel Delivery and light trucks, is a short length of insulated wire integral with the

engine compartment wiring harness. It is several wire gages smaller than the circuit that it protects and is the color of the circuit being supplied by the fuse link. Service fuse links are green or black depending on usage. All fuse links have a flag moulded on the wire or on the terminal insulator. Color identification of the flag or connector is Red—18 gage wire, Orange—16 gage wire, or Green—14 gage wire.

The fuse link is designed to burn out, thus protecting the alternator and wiring

when heavy reverse current flows, such as when a booster battery is connected incorrectly, or a short to ground occurs in the wiring harness.

A burned out link may have bare wire ends protruding from the insulation, or it may only have expanded or bubbled insulation. If it is hard to determine if the link is burned out, perform a continuity test.

Refer to Part 34-31 for testing procedures for fuse links used in the charging system.

## DIAGNOSIS

Certain tests outlined in the Parts within this Group are illustrated in the schematic and in pictorial form. The schematic illustrates the internal connections of the Rotunda or equivalent equipment so these connections can be duplicated when this equipment is not available. The various circuits involved in the tests can be selected by means of switches without the necessity of changing connections when the illustrated equipment is used. This reduces the time required to test units and circuits on the vehicle.

### PRELIMINARY INFORMATION

Before performing charging or starting system tests on the vehicle, note the complaint such as: slow cranking, battery dead or using an excessive amount of water, top of battery wet, ammeter shows charge at all times and/or no charge, alternator warning lamp does not come on and/or never goes out. This information will aid in isolating the part of the system causing the symptom.

Next, visually inspect as follows:

1. Check the fuse link located between the starter solenoid and the alternator. Replace the fuse link if burned.
2. Check battery posts and battery cable terminals for clean and tight connections. Remove the battery cables (if corroded), clean and install them securely.

3. Check for clean and tight wiring connections at the alternator, regulator and engine.
4. Check the alternator belt tension and tighten to specification (if necessary), as shown in Part 31-10.

### ISOLATING THE PROBLEM

Battery, starting system, and light systems problems can be caused by poor charging system performance. It is also possible to suspect the charging system because of an overload in another area of the electrical system.

To avoid guesswork, it is necessary to isolate the battery, the charging system, and the electrical circuits to correctly identify the area where the difficulty lies. The best method to do this is to check the battery first before any electrical system diagnosis. The battery must be in proper state of charge. The battery must be operating properly before the other areas of the electrical system can perform normally.

### BATTERY CHECK

The battery should be checked to see if it has the capacity and ability to accept and hold a charge. If the battery is good, then the charging system should be checked to see that it performs its function of keeping the battery charged.

The battery capacity, specific gravity and cell comparison test will determine

the ability of a battery to accept and hold a charge. If the battery cannot meet the specifications it should be replaced and the new battery fully charged before further diagnosis of other areas of the electrical system.

If the battery is found to meet the required specifications, it should be fully charged before proceeding with the diagnosis of other electrical system components.

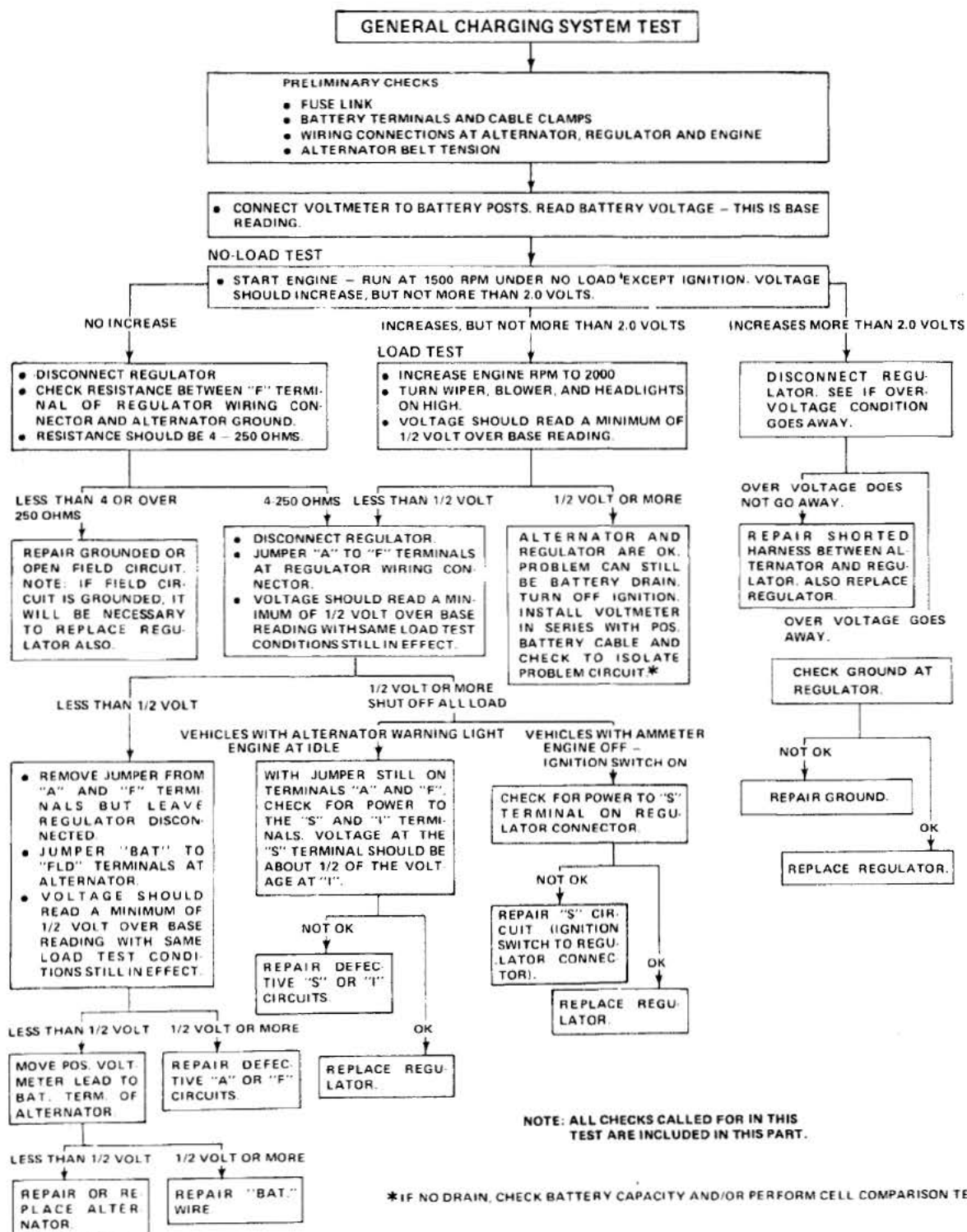
### CHARGING SYSTEM CHECK

The General Charging System Test should be performed before testing any of the individual charging system components. It's "road-map" type of layout should reduce confusion in determining "what to do next" and speed up diagnosis. The component tests will determine the type of component repairs to be made.

The test instruments used in the General Charging System Test are a voltmeter (0-20 or 0-30 volt scale) and an ohmmeter. Special care should be given when using the ohmmeter near "hot" circuits. The component to be checked should be disconnected from the circuit or the battery terminals should be disconnected.

Continue through the Diagnosis Guides until a repair has been made. Then, again test the system to see if the repair has corrected the system problem.

## DIAGNOSIS GUIDES



| COMPLAINT                                                                                                                                               | POSSIBLE CAUSE                                                                                                                                                                                                                                                                               | CORRECTION                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Battery does not stay charged — engine starts OK</li> </ul>                                                      | <ul style="list-style-type: none"> <li>Worn or damaged battery</li> <li>Loose or worn alternator belt</li> <li>Worn or damaged wiring or cables</li> <li>Alternator or regulator</li> <li>Other vehicle electrical systems</li> </ul>                                                        | <ul style="list-style-type: none"> <li>Test battery, replace if necessary</li> <li>Adjust or replace belt</li> <li>Clean, repair as required</li> <li>Perform general charging systems test. Repair or replace as required.</li> <li>Check other systems for current draw. Repair as required</li> </ul>                                                                             |
| <ul style="list-style-type: none"> <li>Battery uses excessive water — lights burn out frequently</li> </ul>                                             | <ul style="list-style-type: none"> <li>Alternator regulator</li> <li>Worn or damaged wiring</li> <li>Worn or damaged battery</li> </ul>                                                                                                                                                      | <ul style="list-style-type: none"> <li>Test, replace if necessary</li> <li>Tighten all ground connections. Repair as required</li> <li>Test battery, replace if necessary</li> </ul>                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>Alternator noisy</li> </ul>                                                                                      | <ul style="list-style-type: none"> <li>Loose or worn alternator belt</li> <li>Bent pulley flanges</li> <li>Alternator</li> </ul>                                                                                                                                                             | <ul style="list-style-type: none"> <li>Adjust or replace belt</li> <li>Replace pulley</li> <li>Perform alternator tests. Repair or replace as required</li> </ul>                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>Charge indicator light does not light when the ignition switch is turned on</li> </ul>                           | <ul style="list-style-type: none"> <li>Loose or improper wiring connections</li> <li>Bulb burnt out</li> <li>Worn or damaged regulator or wiring</li> </ul>                                                                                                                                  | <ul style="list-style-type: none"> <li>Repair as required</li> <li>Replace bulb</li> <li>Disconnect regulator plug connector. Connect jumper wire from "I" terminal of connector to ground. Indicator should light. Connect jumper wire from "I" to "F". Indicator light should light. Check regulator to alternator wiring for continuity. Repair or replace as required</li> </ul> |
| <ul style="list-style-type: none"> <li>Charge indicator light stays on — engine running</li> </ul>                                                      | <ul style="list-style-type: none"> <li>Loose or worn alternator belt</li> <li>Alternator regulator</li> <li>Alternator</li> </ul>                                                                                                                                                            | <ul style="list-style-type: none"> <li>Adjust or replace belt</li> <li>By-pass regulator. If light goes out, replace regulator</li> <li>Perform general charging systems test. Repair or replace as required</li> </ul>                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>Charge light stays on — key off</li> </ul>                                                                       | <ul style="list-style-type: none"> <li>Worn or damaged wiring</li> <li>Alternator or regulator</li> </ul>                                                                                                                                                                                    | <ul style="list-style-type: none"> <li>Check and repair as required</li> <li>Disconnect connect plug from regulator. Check for voltage at "S" terminal of plug. If no volts and light goes out, replace regulator. If volt reading, repair or replace alternator</li> </ul>                                                                                                          |
| <ul style="list-style-type: none"> <li>Charge indicator gauge shows steady charge</li> </ul>                                                            | <ul style="list-style-type: none"> <li>Worn or damaged battery</li> <li>Poor regulator ground</li> <li>Loose wiring connections</li> <li>Alternator or regulator</li> </ul>                                                                                                                  | <ul style="list-style-type: none"> <li>Check battery. Replace if necessary</li> <li>Assure good ground</li> <li>Tighten all wiring connections</li> <li>Perform general charging systems test. Repair or replace as required</li> </ul>                                                                                                                                              |
| <ul style="list-style-type: none"> <li>Charge indicator light flickers while vehicle is being driven</li> </ul>                                         | <ul style="list-style-type: none"> <li>Loose or worn alternator belt</li> <li>Loose or improper wiring connections</li> <li>Alternator or regulator</li> </ul>                                                                                                                               | <ul style="list-style-type: none"> <li>Adjust or replace belt</li> <li>Assure good proper connections</li> <li>Perform general charging systems test. Repair or replace as required</li> </ul>                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>Charge indicator gauge shows discharge (if constant high reading, see "Battery Uses Excessive Water")</li> </ul> | <ul style="list-style-type: none"> <li>Loose or worn alternator belt</li> <li>Worn or damaged wiring</li> <li>Alternator or regulator</li> <li>Charge indicator gauge wiring and connections</li> <li>Worn or damaged gauge</li> <li>Other vehicle electrical systems malfunction</li> </ul> | <ul style="list-style-type: none"> <li>Adjust or replace belt</li> <li>Check battery to alternator wiring for ground or open. Repair if necessary</li> <li>Perform general charging systems test. Repair or replace as required</li> <li>Repair as required</li> <li>Replace gauge</li> <li>Check and repair as required</li> </ul>                                                  |

CJ1910-B1

## TESTING

A voltmeter (0 to 20 volt scale), ohmmeter, jumper wire and a test light (12 volt) are the only tools required to perform an accurate check of the complete charging system. The meters should be calibrated once a year and the date of calibration stamped on the meter face. It is recommended that this practice be followed by all technicians to maintain their meters at acceptable accuracy.

The tests are divided into On Vehicle and On Bench Test procedures.

Troubleshooting or diagnosis is required before actual repairs can be made in the electrical system. Even where

an obvious fault makes the replacement of a unit necessary, find out why the unit failed. Refer to the Diagnosis Guide in this Part. When a trouble is diagnosed correctly, unnecessary repairs are prevented, the time the vehicle is out of service will be decreased, and the repairs that are made will be permanent.

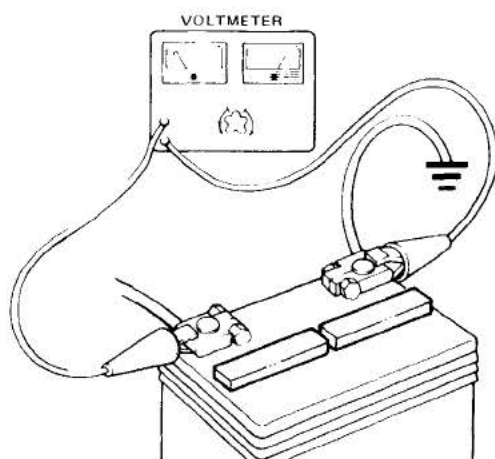
### ON VEHICLE TESTS

Before performing charging system tests on the vehicle, note the complaint such as: slow cranking, battery dead or using an excessive amount of water, top of battery wet, ammeter shows charge at

all times or no charge, alternator warning lamp does not come on or never goes out. This information will aid in isolating the part of the system causing the symptom.

#### Visual Inspection

1. Check the fuse link if so equipped located between the starter relay and the alternator. If burned, determine cause, repair system and replace fuse link.
2. The battery must be in proper state of charge (at least 1.200 specific gravity). Check the battery posts and battery cable terminals for clean and tight connections. Remove the



VOLTMETER CONNECTIONS - TO BATTERY

K2628-C

FIG. 1 Voltmeter—To—Battery Connections

- battery cables (if corroded), clean and install them securely.
- 3. Check for clean and tight wiring connections at the alternator, regulator and engine.
- 4. Check the alternator belt tension and tighten to specification (if necessary). Refer to Part 31-10.

### BATTERY DRAIN TEST

1. Connect a 12-volt test light in-series with the positive terminal of the battery. Test with all switches OFF. Do not be misled by clock-winding current. Touch cable clamp to terminal to wind clock.
2. If light glows, pull fuses, one at a time, and check each circuit for short. Repair wiring harnesses or components as required.

### ALTERNATOR INDICATOR LIGHT (ALT) TEST

#### Normal Charge Indicator

With Ignition switch off, lamp is off.

With Ignition switch on (engine not running), charge indicator (ALT) lamp is on.

With Ignition switch on (engine running), charge indicator (ALT) lamp is off.

1. If the charge indicator lamp does not come on with the ignition key in the ON position and the engine not running, check the I wiring circuit (ignition switch to regulator I terminal), for an open circuit or burned out charge indicator lamp.
2. If the charge indicator light does not come on, disconnect the wiring plug connector at the regulator and connect a jumper wire from the I terminal of the regulator wiring plug to the negative battery post cable

3. The charge indicator lamp should go on with the ignition key turned to the ON position.
4. If the charge indicator bulb does not go on, check the bulb for continuity and replace (if burned out).
5. If the bulb is not burned out, an open circuit exists between the ignition switch and the regulator.

### Electro Mechanical and Transistorized Regulators

A good indication of a problem in the I wiring circuit (ignition switch to regulator I terminal) will show when the charge indicator light goes out when engine rpm is high. This may be caused by an open circuit in the 15 ohm resistor wire (connected in parallel with the indicator light) generally at the terminal point (either end of the resistor wire).

### AMMETER TEST

#### Normal Charge Indication

With ignition switch off and no electrical load . . . Ammeter should show 0 or center scale.

With ignition switch ON and the engine running (fully charged battery), needle deflects towards charge and returns toward center scale in time.

With ignition switch off and headlights on . . . Ammeter should show discharge. If the ammeter does not register a discharge, check for loose connections at the ammeter prior to replacing the gauge.

### GENERAL CHARGING SYSTEM TESTS

When performing charging system tests with a voltmeter, turn OFF all lights and electrical components. Place the transmission in neutral and apply the

### Base Voltage Test

1. Connect the negative lead of the voltmeter to the negative battery cable clamp.
2. Connect the positive lead of the voltmeter to the positive battery cable clamp (Fig. 1). Record the battery voltage reading shown on the voltmeter scale, (this is called the base voltage).

### No Load Test

3. Connect a tachometer to the engine.
4. Start the engine and increase speed to approximately 1500 rpm. With no other electrical load (foot off brake pedal and doors closed), the voltmeter pointer should move upward (increase), but not more than 2 volts above the base voltage (first recorded battery voltage reading). The reading should be taken when the voltmeter pointer stops rising. It may take a few minutes to reach this point. If the pointer continues to rise, perform the OVER VOLTAGE TESTS described below.
5. With the engine running, turn the heater or air conditioner blower motor ON (high speed) and headlights on high beam.

### Load Test

6. Increase the engine speed to approximately 2000 rpm. The voltmeter should indicate a minimum of 0.5 volt above the base voltage. If not, perform the UNDER VOLTAGE TEST described below.

If the above tests indicate proper voltage readings, the charging system is operating normally. Proceed to the tests below if one or more of the readings is different than shown above and use a test light and check for battery drain.

### Over Voltage Tests

1. If the voltmeter reading indicates more than 2.0 volts above the base voltage, connect a jumper wire between the regulator base and the alternator frame. Repeat the NO LOAD test. This will check the ground connections between the regulator and alternator and/or regulator to engine. If an over voltage condition appears, clean and tighten connections securely.
2. If over voltage condition still exists, disconnect the regulator wiring plug from the regulator and repeat the NO LOAD test.
3. If over voltage condition disappears (voltmeter reads battery voltage), replace voltage regulator.
4. If over voltage still exists with the regulator wiring plug disconnected, repair the short in the wiring harness between the alternator and regulator.

Replace the regulator and connect the regulator wiring plug to the regulator.

### Under Voltage Tests

1. To determine if the jumping procedure is safe, the field circuit should be checked with the regulator wiring plug disconnected and an ohmmeter connected from the F terminal of the regulator wiring plug to the battery ground. The ohmmeter should indicate more than three ohms (Fig. 2).
2. If the load voltage did not increase 1/2 volt above the base voltage, connect a jumper across the A and F terminals of the plug and repeat the LOAD TEST (Fig. 3).

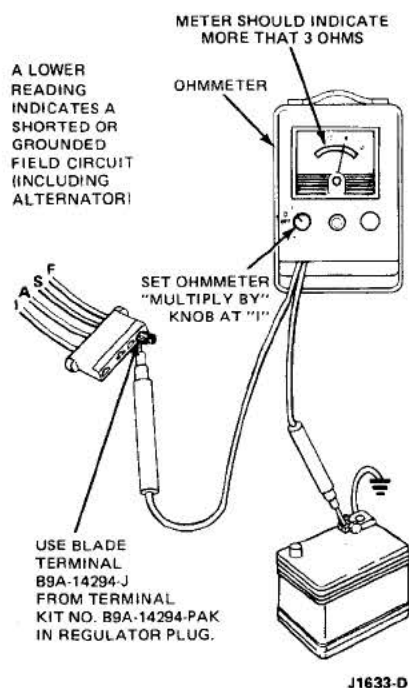


FIG. 2 Field Circuit Test

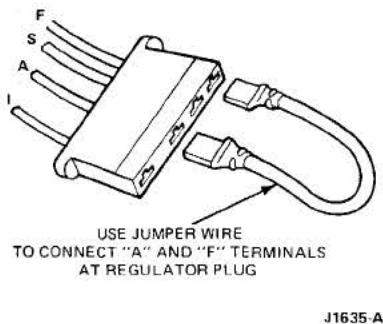


FIG. 3 Regulator Plug Jumper Wire Connections

3. If the Voltmeter still indicates under voltage, remove the jumper wire from the regulator plug and leave the plug disconnected from the regulator. Connect a jumper wire to the FLD and BAT

terminals on the alternator (Fig. 4) and repeat the LOAD TEST. If the voltmeter now indicates more than 1/2 volt above the base voltage, repair the wiring harness from the alternator to the regulator.

4. If the voltmeter still indicates under voltage, stop the engine and move the positive voltmeter lead to the alternator BAT terminal.
5. If the voltmeter now indicates the base voltage reading, repair the alternator. If the voltmeter indicates zero volts, repair the BAT wire (circuit 38).

### Regulator I and S Circuit Tests S—Circuit With Ammeter

1. Connect the positive lead of the voltmeter to the S terminal of the regulator wiring plug. Then, turn the ignition switch to the ON position. Do not start the engine.
2. The voltmeter should indicate battery voltage.
3. If there is no voltage reading, repair the S wire lead from the ignition switch to the regulator wiring plug.
4. Connect the positive voltmeter lead to the positive battery cable terminal, connect regulator wiring plug to regulator and repeat the LOAD TEST.

### S and I Circuit—With Indicator Light

1. Disconnect the regulator wiring plug and install a jumper wire between the A and F terminals (Fig. 3).
2. With the engine idling, connect the positive lead of the voltmeter to the S terminal and then to the I terminal of the regulator wiring plug. The voltage of the S circuit should read approximately 1/2 of the I circuit.
3. If no voltage is present, repair the wiring circuit. Reconnect the positive voltmeter lead to the positive battery cable terminal.
4. If the above circuit tests are satisfactory, install a new regulator.
5. Then, remove the jumper wire from the regulator wiring plug and connect the wiring plug to the regulator. Repeat the LOAD TEST.

### Diode Test—On Vehicle

1. Disconnect the electric choke.
2. Disconnect voltage regulator wiring plug.
3. Connect a jumper between A and F terminal of voltage regulator wiring plug (Fig. 3).
4. Connect voltmeter to battery cable clamps.
5. Start engine—let engine run at idle.
6. Read and record the system voltage.

7. Move positive voltmeter lead to S-terminal of the alternator
8. Note the voltmeter reading.
9. Run the engine as described under NO LOAD TEST.

### Test Results

1. If the voltmeter reads 1/2 of the system voltage, the diodes are OK.
2. If voltmeter reads approximately 1.5 volts, alternator has shorted negative diode, or a grounded stator winding.
3. If voltmeter reads approximately 1.5 volts less than battery voltage, alternator has shorted positive diode.
4. If voltmeter reads about 1.0 to 1.5 volts less than 1/2 battery voltage, alternator has an open positive diode.
5. If voltmeter reads about 1.0 to 1.5 volts more than 1/2 battery voltage, alternator has an open negative diode.
6. Connect the electric choke into the circuit after the test is completed.

### BENCH TESTS

#### Rectifier Short or Grounded and Stator Grounded Test

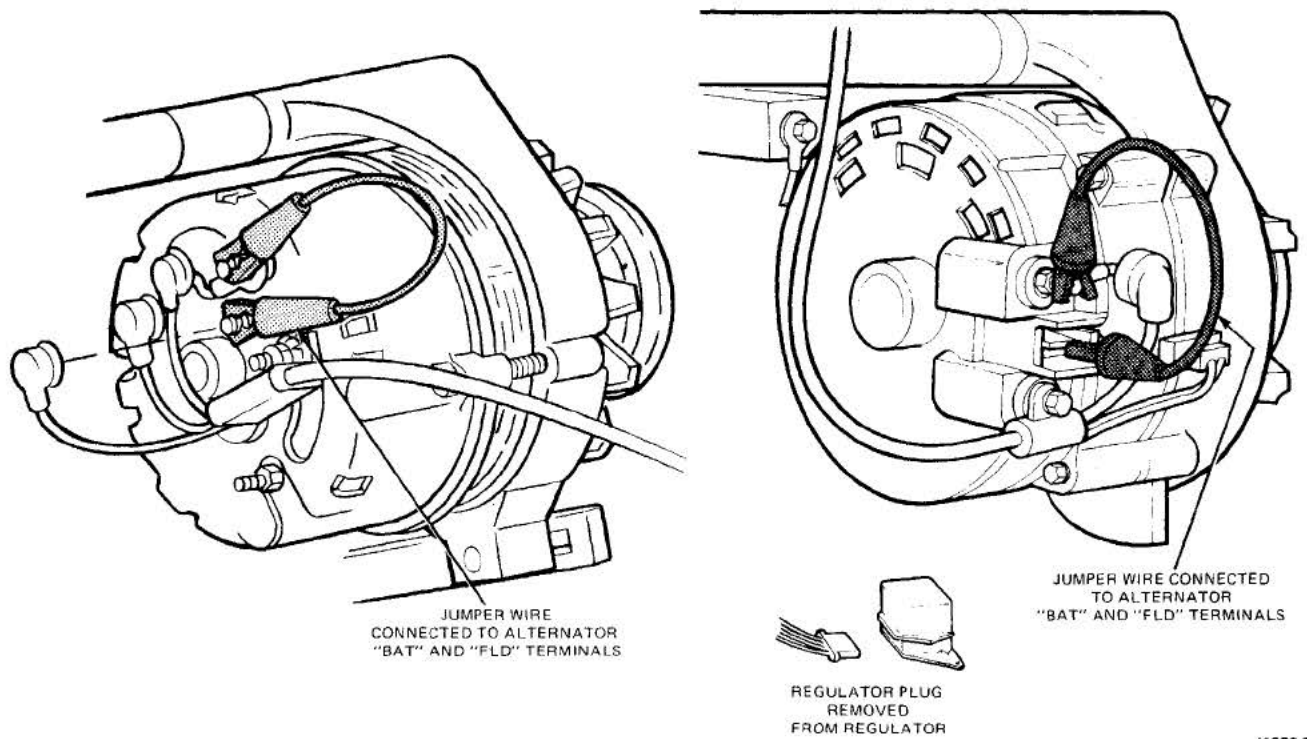
These tests are performed with an ARE 27-42 ohmmeter or equivalent. Set the Multiply By knob at 10, and calibrate the ohmmeter as directed inside the instrument cover.

1. Contact one ohmmeter probe to the alternator BAT terminal (Fig. 5) and the other probe to the STA terminal (rear blade terminal). Then, reverse the ohmmeter probes and repeat the test. A reading of about 60 ohms should be obtained in one direction and no needle movement with the probes reversed. A reading in both directions indicates a bad positive diode, a grounded positive diode plate or a grounded BAT terminal.
2. Perform the same test using the STA and GND (ground) terminals of the alternator. A reading in both directions indicates either a bad negative diode, a grounded stator winding, a grounded stator terminal, a grounded positive diode plate, or a grounded BAT terminal.
3. Infinite readings (no needle movement) in all four probe positions in the preceding tests indicates an open STA terminal lead connection inside the alternator.

#### Field Open or Short Circuit Test

This test is performed with an ARE 27-42 ohmmeter or equivalent. Set the ohmmeter Multiply By knob at 1 and calibrate the ohmmeter as directed inside the instrument cover.

1. Contact the alternator field terminal with one probe and the ground terminal with the other probe (Fig. 6). Then, spin the alternator pulley. The



J1636-B

FIG. 4 Jumper Wire Connections

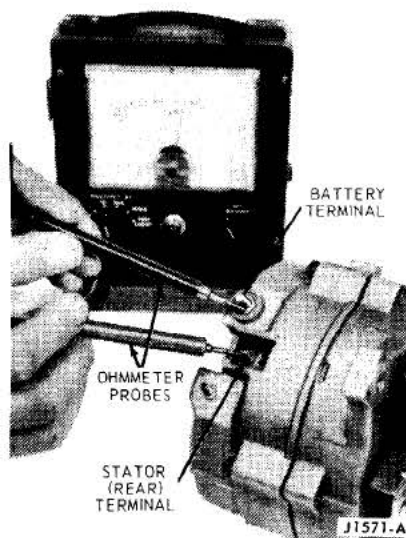


FIG. 5 Rectifier Short or Grounded and Stator Grounded Test

ohmmeter reading should be between 2.4 and 200 ohms and should fluctuate while the pulley is turning.

2. An infinite reading (no meter movement) indicates an open brush lead, worn or stuck brushes, or a bad rotor assembly.
3. An ohmmeter reading less than 2.4 ohms indicates a grounded brush

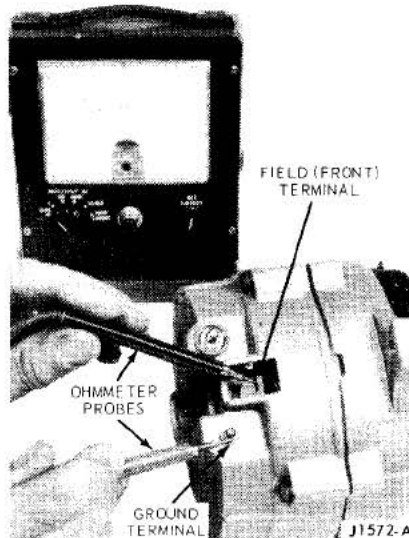


FIG. 6 Field Open or Short Circuit Test

assembly, a grounded field terminal or a bad rotor.

#### Diode Test

Remove the rectifier assembly from the alternator as outlined in the appropriate Part in Group 31. Set the ohmmeter Multiply By Knob at 10 and calibrate the meter as directed inside the cover.

1. To test one set of diodes, contact one probe to the diode plate as shown in Fig. 7 and contact each of the three stator lead terminals with the other probe. Reverse the probes and repeat the test. All diodes should show a low reading of about 60 ohms in one direction, and an infinite reading (no needle movement) with the probes reversed.
2. Repeat the preceding tests for the other set of diodes except that the other diode plate is used. The diode test for the Leece-Neville alternator is accomplished by placing one probe on the heat sink and contacting each of the three stator lead terminals with the other probe as shown in Fig. 8. The readings should be as indicated in the previous paragraph.
3. If the meter readings are not as specified, replace the rectifier assembly.

#### Stator Coil Open or Grounded Test

These tests are made to determine if the stator coil is operating properly. Disassemble the stator from the alternator as outlined under Disassembly in the appropriate alternator Part in Group 31.

Set the ARE 27-42 ohmmeter or equivalent Multiply By knob at 1, and calibrate the meter as directed inside the cover.

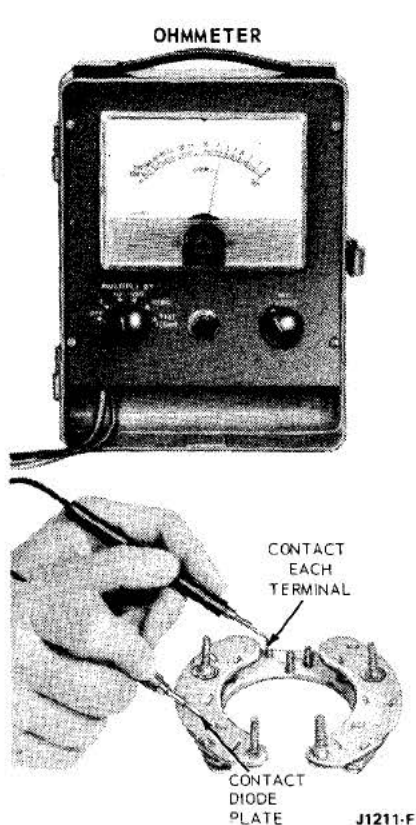


FIG. 7 Diode Test—Rear Terminal Alternator

1. Connect the ohmmeter probes between each pair of stator leads (3 different ways). The ohmmeter must show equal readings for each pair of stator leads. Replace the stator if the readings are not the same.
2. Set the ohmmeter Multiply By knob at 1000. Connect the ohmmeter probes to one of the stator leads and to the stator laminated core. Be sure that the probe makes a good electrical connection with the stator core. The meter should show an infinite reading (no meter movement).
3. If the meter does not indicate an infinite reading (needle moves), the

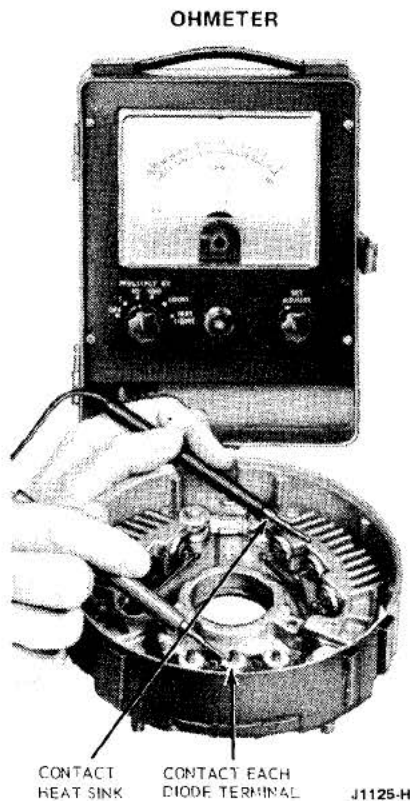


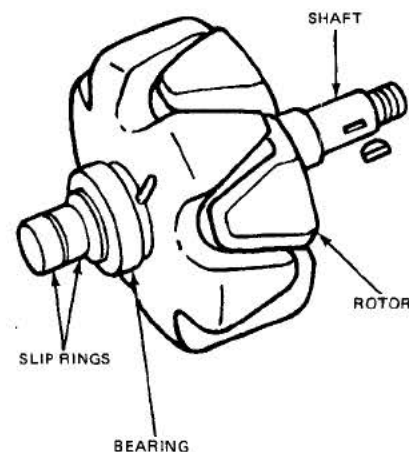
FIG. 8 Diode Test—Leece Neville Alternator

stator winding is shorted to the core and must be replaced. Repeat this test for each of the stator leads.

#### Rotor Open or Short Circuit Test

Disassemble the front housing and rotor from the rear housing and stator as outlined under Disassembly in the appropriate alternator part in Group 31. Set the ohmmeter Multiply By knob at 1 and calibrate the meter as directed inside the ohmmeter cover.

1. Contact each ohmmeter probe to a rotor slip ring (Fig. 9). The meter reading should be 2.4 to 4.9 ohms. A higher reading indicates a weak or



J2022-A

FIG. 9 Rotor Assembly—Typical

broken slip ring solder connection or a broken wire. A lower reading indicates a shorted wire or slip ring. Replace the rotor if it cannot be repaired.

2. Contact one ohmmeter probe to a slip ring and the other probe to the rotor shaft. The meter reading should be infinite (no deflection).
3. A reading other than infinite indicates the rotor is shorted to the shaft. Inspect the slip ring soldered terminals to be sure they are not bent and touching the rotor shaft, or that excess solder is not grounding the rotor coil connections to the shaft. Replace the rotor if it is shorted and cannot be repaired.

#### CHARGING SYSTEM FUSE LINK

Fuse links are included in the charging system wiring on some vehicles. Refer to Part 34-31 for fuse link repair procedures.

| <b>Batteries</b>                         |             | <b>PART<br/>31-02</b>              |             |
|------------------------------------------|-------------|------------------------------------|-------------|
| <b>APPLIES TO ALL MODELS</b>             |             |                                    |             |
| <b>SUBJECT</b>                           | <b>PAGE</b> | <b>SUBJECT</b>                     | <b>PAGE</b> |
| GENERAL INFORMATION .....                | 02-1        | TESTING (Cont'd.)                  |             |
| Jump Start .....                         | 02-1        | Tests Using Rotunda Battery-       |             |
| TESTING .....                            | 02-1        | Starter Tester or Equivalent ..... | 02-1        |
| Tests Using Christie or Equivalent ..... | 02-1        | SPECIFICATIONS .....               | 02-3        |

## GENERAL INFORMATION

### **DANGER—EXPLOSIVE GASES**

Batteries produce explosive gases. Keep sparks, flame and cigarettes away, ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.

**POISON—CAUSES SEVERE BURNS** Batteries contain sulphuric acid. Avoid contact with skin, eyes, or clothing. Antidote: External - Flush with water. Eyes: Flush with water for 15 minutes and get prompt medical attention. Internal: Drink large amounts of water or milk, follow with Milk of Magnesia, beaten egg or vegetable oil. Call Physician immediately. Keep out of the reach of children.

### **Jump Start**

When starting vehicles with another battery and jumper cables, the following instructions should be followed to prevent

sparks at the battery terminals and to prevent damage to other electrical components on the vehicle.

1. Be sure the ignition key is in OFF position.
2. Shield eyes. Use safety goggles or similar eye protection.
3. Place damp cloth across the tops of both batteries.
4. Connect ends of one cable to positive (+) terminals of each battery.
5. Connect one end of the other cable to negative (-) terminal of "good" battery.
6. Connect other end of cable to engine bolthead or similar good contact spot on the vehicle being started (NOT to negative (-) terminal of battery).
7. To prevent damage to other electrical components on vehicle being started,

make certain that engine is at idle speed before disconnecting jumper cables.

**NOTE:** Batteries are heavy, weighing 25 lbs and up. Lift them with your legs rather than your back to prevent muscle strains, and be careful not to drop them (possible breakage) nor to spill the contents (sulfuric acid).

**NOTE:** Twelve-volt starting motors can be damaged beyond repair if connected to a 24-volt power supply (two 12-volt batteries in series, or a 24-volt motor-generator set), even when cranking loads are relatively light. Extensive starting motor damage is more likely if the starter is connected to a 24-volt supply while being subjected to prolonged heavy cranking loads such as attempting to start an engine in subzero temperatures.

## TESTING

Tests are made on a battery to determine the state of charge and also the condition. The ultimate result of these tests is to show that the battery is good, needs recharging, or must be replaced.

If a battery has failed, is low in charge, or requires water frequently, good service demands that the reason for this condition be found. It may be necessary to follow trouble shooting procedures to locate the cause of the trouble.

Refer to Part 31-01 for charging system trouble shooting procedures.

Before attempting to test a battery, it is important to give it a thorough examination to determine if it has been

damaged. Possible battery damage with replacement often necessary is indicated by moisture on the outside of the case (possible cracked and leaking case) and/or low electrolyte level in one or more cells (possible leak or weak cell).

Original equipment batteries incorporate a single one-piece cover which completely seals the top of the battery and the individual cell connectors. This cover must not be pierced with test probes to perform individual cell tests.

### **TESTS USING CHRISTIE OR EQUIVALENT**

Follow the instructions that come with the unit.

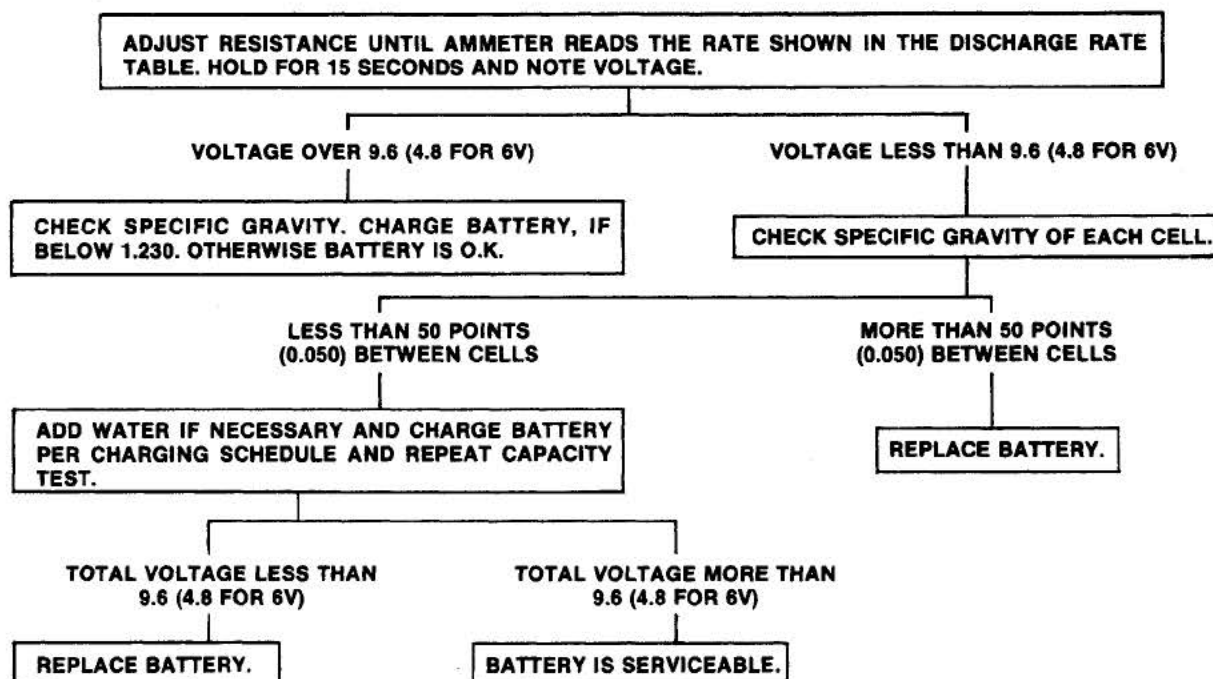
### **TESTS USING THE ROTUNDA BATTERY-STARTER TESTER OR EQUIVALENT**

#### **Battery Capacity Test (Fig. 1)**

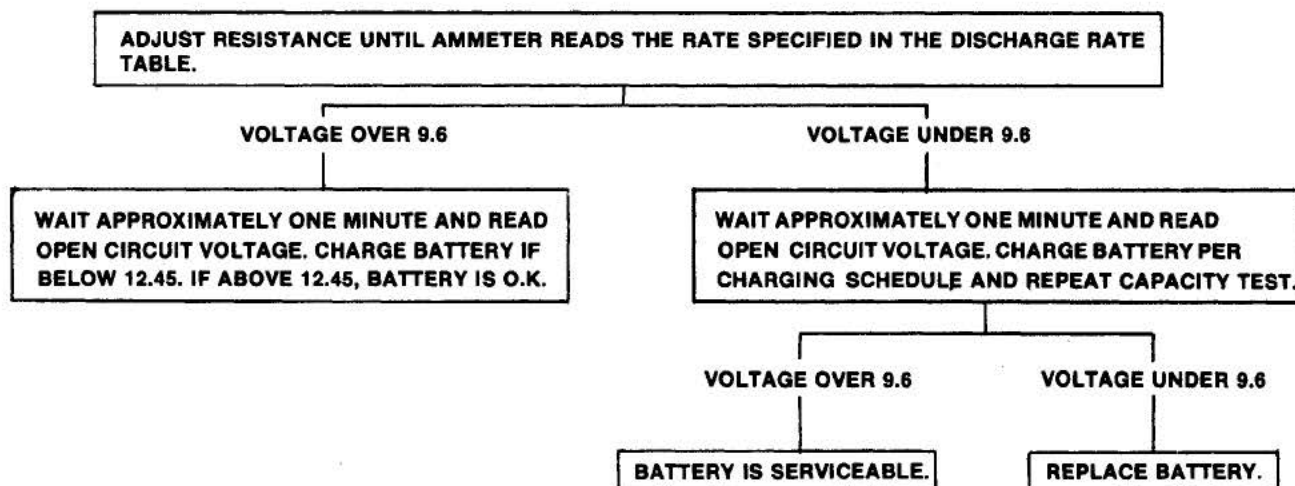
A high rate discharge tester (Rotunda Battery-Starter Tester or equivalent) in conjunction with a voltmeter is used for this test.

1. Turn the control knob on the Battery Starter Tester to the OFF position.
2. Turn the voltmeter selector switch to the 20-volt position.
3. Position the selector switch to "AMP".
4. Adjust the load control knob until the ammeter reading corresponds to the

## NON-MAINTENANCE FREE BATTERY CAPACITY TEST



## MAINTENANCE FREE BATTERY CAPACITY TEST



CJ1039-G

FIG 1. Battery Capacity Test Outline  
rate shown in the battery discharge rate table.

5. With the ammeter reading the required load for 15 seconds, note the voltmeter reading. Avoid leaving the high discharge load on the battery for periods longer than 15 seconds.
6. If the voltmeter reading is 9.6 volts or more for a 12-volt battery and 4.8 volts or more for a 6-volt battery, the battery has good output capacity and will readily accept a charge, if

required. Check the state of charge by reading the specific gravity of a Non-Maintenance Free Battery or the open circuit voltage of a Maintenance Free Battery. If the open circuit voltage is below 12.45, charge the battery according to the battery charge time schedule.

Always disconnect the battery ground cable when charging the battery.

7. If the voltage reading obtained during the capacity test of a Non-Maintenance Free Battery is below 9.6 volts for a 12-volt battery and 4.8 volts for a 6-volt battery, check the specific gravity of each cell.

If the difference between any two cells is more than 50 points (0.050), the battery is not satisfactory for service and should be replaced.

If the difference between cells is less than 50 points (0.050), the battery should be charged according to the charging schedule in the Specifications Section.

In some cases the electrolyte level may be too low to obtain a specific gravity reading. In such cases, water should be added until the electrolyte level just covers the ring in the filler well, then charge the battery at 35 amperes for the maximum charging time indicated in Specifications for the capacity of the battery being tested.

Batteries that are completely discharged may not accept a fast charge. If this is found, the battery should be slowly charged at 4 amps for (2) hours so the battery will be capable of accepting a fast charge. A specific gravity reading taken at this time will show no change from the original reading and the battery must be charged accord-

ing to the high rate charge time schedule.

8. If the voltage reading obtained during the capacity test on a Maintenance Free Battery is below 9.6 volts, check the open circuit voltage approximately one minute after the capacity test. Charge the battery according to the charge time schedule for Maintenance Free Batteries.
9. After the battery has been charged, repeat the capacity test. If the capacity test battery voltage is still less than 9.6 volts, replace the battery. If the voltage is 9.6 volts or more, the battery is satisfactory for service.
10. If the battery is found to be discharged only, check for a loose fan belt, loose electrical connections and charging system performance.

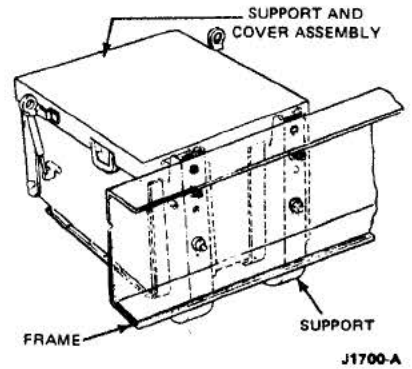


FIG. 2 Typical Heavy-Duty (2 12-Volt) Battery Box

## SPECIFICATIONS

| Non-Maintenance Free Battery<br>Discharge Rates |                           |
|-------------------------------------------------|---------------------------|
| Battery Capacity<br>Ampere Hours                | Discharge Rate<br>Amperes |
| 41                                              | 145                       |
| 53                                              | 175                       |
| 55                                              | 175                       |
| 68                                              | 220                       |
| 70                                              | 210                       |
| 77                                              | 225                       |
| 81                                              | 200                       |
| 95                                              | 290                       |
| 155                                             | 350                       |
| 158 (6V)                                        | 350                       |
| 172 (6V)                                        | 415                       |
| 204                                             | 440                       |

CJ2023-A

| Maintenance Free Battery<br>Discharge Rate |                           |
|--------------------------------------------|---------------------------|
| Battery Capacity<br>Ampere Hours           | Discharge Rate<br>Amperes |
| 68                                         | 235                       |

CJ2024-A

| NON-MAINTENANCE FREE BATTERY HIGH RATE CHARGE TIME SCHEDULE |                     |                               |        |         |         |         |          |         |         |          |
|-------------------------------------------------------------|---------------------|-------------------------------|--------|---------|---------|---------|----------|---------|---------|----------|
| Specific Gravity Reading                                    | Charge Rate Amperes | Battery Capacity Ampere Hours |        |         |         |         |          |         |         |          |
|                                                             |                     | 41                            | 53-55  | 68-70   | 95      | 155     | 158(6-V) | 204     | 172(6V) | 77-81    |
| 1.125-1.150 ①                                               | 35                  | 65 min                        | 80 min | 100 min | 135 min | 225 min | 225 min  | 300 min | 250     | 115 min. |
| 1.150-1.175                                                 | 35                  | 50 min                        | 60 min | 80 min  | 105 min | 175 min | 175 min  | 230 min | 190     | 95 min.  |
| 1.175-1.200                                                 | 35                  | 40 min                        | 50 min | 60 min  | 85 min  | 140 min | 140 min  | 185 min | 155     | 70 min.  |
| 1.200-1.225                                                 | 35                  | 30 min                        | 35 min | 45 min  | 60 min  | 100 min | 100 min  | 135 min | 110     | 50 min.  |
| Above 1.225                                                 | 5                   | ②                             | ②      | ②       | ②       | ③       | ③        | ③       | ③       | ②        |

① If the specific gravity is below 1.125, use the time indicated for the 1.125 specific gravity, then charge at 5 amperes until the specific gravity reaches 1.250 at 80°F.

② Charge at 5 ampere rate only until the specific gravity reaches 1.250 at 80°F.

③ Charge at 10 ampere rate only until the specific gravity reaches 1.250 at 80°F.

At no time during the charging operation should the electrolyte temperature exceed 130°F.

CJ1645-D

#### MAINTENANCE FREE BATTERY ALLOWABLE BATTERY CHARGE TIME SCHEDULE — 68 A.H. BATTERY

| Open Circuit Voltage | Charge Rate — Amperes |          |           |           |
|----------------------|-----------------------|----------|-----------|-----------|
|                      | 5                     | 10       | 20        | 30        |
| Below 11.85          | 13 hrs.               | 6.5 hrs. | 3.25 hrs. | 2 hrs.    |
| 11.85-12.00          | 10 hrs.               | 5 hrs.   | 2.5 hrs.  | 1.5 hrs.  |
| 12.00-12.10          | 8 hrs.                | 4 hrs.   | 2 hrs.    | 1.25 hrs. |
| 12.10-12.25          | 6 hrs.                | 3 hrs.   | 1.5 hrs.  | 1 hr.     |
| 12.25-12.35          | 4 hrs.                | 2 hrs.   | 1 hr.     | 30 min.   |
| Above 12.35          | 2.5 hrs               | —        | —         | —         |

CAUTION: Do not exceed 30 ampere charge rate.

CJ2025-A

If gassing or spewing of the electrolyte occur during charging, the charge rate must be reduced.

# Motorcraft



## 1973 / 79

### Truck Master Parts and Accessories Catalog (100-500 Series)

**Source Document  
Extract Only  
Sections 103 thru 145**

**FORD MOTOR COMPANY**

**Dearborn, Michigan**



## **MASTER PARTS AND ACCESSORIES CATALOG**

(ILLUSTRATIONS)

### **FORD DIVISION**

#### **GENERAL INSTRUCTIONS**

This Ford Truck Master Parts Catalog contains parts illustrations for truck series B500, E100/300, F100/500 and P350/500 for model year 1973 for U.S. and Canadian built vehicles.

Use these ILLUSTRATIONS in conjunction with the TEXT in the front portion of the catalog.

For greater convenience this catalog is divided into specific sections such as brakes, front suspension, engine, transmission, etc. For example, FRONT SUSPENSION appears in Section 30, STEERING in Section 35, REAR AXLE in Section 40, etc.

The TEXT portion of the catalog is divided into sections also and like parts are shown under similar section numbers in both the TEXT and ILLUSTRATION portions of the catalog.

A listing of Ford group numbers and their related section numbers appears in the General Information Section of the TEXT portion of the catalog.

Illustrations contain group numbers only, therefore, it is necessary to refer to the group within the TEXT portion of the catalog listing for complete applicable part number.

The driver's side is the left hand side of the vehicle and determines whether such parts as fenders, lamps, etc. are right or left hand.

Model year application is indicated by showing the first year followed by a diagonal line to indicate continued usage in all subsequent years until the insertion of the last year of usage, which is shown after the diagonal line. If no diagonal line is shown the part is applicable only to the year shown.

**Example.**

- 73/ indicates part used 1973 through subsequent models.
- 73/74 indicates part used 1973 through 1974 model years.
- 73 indicates part used 1973 model year only.

For Warranty Plate Data, Catalog Model Codes and Body Type Codes refer to the General Information Section of the TEXT portion of the catalog.

#### **SYMBOLS COMMONLY USED IN THIS CATALOG**

- \* identifies Motorcraft Sales Number.
- # indicates some form of Identification.
- ★ indicates Not Serviced-must be improvised or procured locally.

#### **MODEL CODES**

Truck models are listed throughout this catalog by truck series. A listing of series codes shown on Warranty Plates is included in the General Information Section of the TEXT portion of the catalog. Refer to these codes to determine the series listed in this catalog. Model application is often consolidated as shown below:

**Example:**

- F100/350 means F100 thru F350 or F100, F250 and F350.
- and: B-F500 means B500 and F500.

1973/79  
TRUCK SERIES 100/500

## CHASSIS PARTS ILLUSTRATION INDEX

Following is a general index of the major groups shown in the Chassis and Body Parts Illustration Sections. For more specific information refer to the Index appearing in front of the Section number listed below:

| MAJOR GROUP                   | ● TABBED DIVIDER TITLE                                         | INDEX SECTION |
|-------------------------------|----------------------------------------------------------------|---------------|
| Accelerator Linkage           | Fuel                                                           | 90            |
| Accessories                   | Listed in their appropriate groups as identified in this index |               |
| Air Cleaner                   | Fuel                                                           | 90            |
| Air Conditioner               | Air Cond.-Heaters-Radios-Shock Absorbers                       | 180           |
| Alternator                    | Generator-Alternator-Starter-Distributor                       | 103           |
| Automatic Transmission        | Automatic Transmission                                         | A70           |
| Axle (Front)                  | Front Axle-Steering                                            | 30            |
| Axle (Rear)                   | Rear Axle                                                      | 40            |
| Battery                       | Generator-Alternator-Starter-Distributor                       | 103           |
| Battery Carriers              | Generator-Alternator-Starter-Distributor                       | 103           |
| Brake System                  | Wheel-Brake                                                    | 10            |
| Bumpers                       | Bumpers-Mirrors-Speedo. Cable-Tow Hooks-Wipers-Washers         | 175           |
| Camshaft                      | Engine                                                         | 60            |
| Carburetor                    | Fuel                                                           | 90            |
| Carrier (Wheel)               | Wheel-Brake                                                    | 10            |
| Clutch                        | Transmission-Clutch                                            | 70            |
| Cooling System                | Cooling-Grille                                                 | 80            |
| Coupling Shaft                | Driveshaft-Coupling Shaft                                      | 40            |
| Crankcase Vent System         | Engine                                                         | 60            |
| Cylinder Block                | Engine                                                         | 60            |
| Cylinder Head and Valves      | Engine                                                         | 60            |
| Distributor                   | Generator-Alternator-Starter-Distributor                       | 103           |
| Driveshaft                    | Driveshaft-Coupling Shaft                                      | 40            |
| Electrical                    | Generator-Alternator-Starter-Distributor                       | 103           |
| Electrical                    | Lamps-Wiring                                                   | 130           |
| Emission Control (Thermactor) | Fuel                                                           | 90            |
| Engine                        | Engine                                                         | 60            |
| Engine Supports               | Engine                                                         | 60            |
| Exhaust System                | Frames-Muffler-Exhaust                                         | 50            |
| Fan                           | Cooling-Grille                                                 | 80            |
| Fenders                       | Fender-Hood                                                    | 160           |
| Frame                         | Frame-Muffler-Exhaust                                          | 50            |
| Front Axle                    | Front Axle-Steering                                            | 30            |
| Front Springs                 | Spring-Rear Suspension                                         | 50            |
| Front Suspension              | Front Axle-Steering                                            | 30            |
| Fuel Filter                   | Fuel                                                           | 90            |
| Fuel Pump                     | Fuel                                                           | 90            |
| Fuel System                   | Fuel                                                           | 90            |
| Fuel Tank                     | Fuel                                                           | 90            |
| Gearshift Lever               | Transmission-Clutch                                            | 70            |
| Grille                        | Cooling-Grille                                                 | 80            |

● Applicable to Loose Leaf Catalogs only.

# 1973/79 TRUCK SERIES 100/500

GENERAL  
INFORMATION

3

## CHASSIS PARTS ILLUSTRATION INDEX cont'd.

| MAJOR GROUP                  | • TABBED DIVIDER TITLE                                     | INDEX SECTION |
|------------------------------|------------------------------------------------------------|---------------|
| Heater                       | Air Cond.-Heaters-Radios-Shock Absorber                    | 180           |
| Hood                         | Fender-Hood                                                | 160           |
| Horn                         | Lamps-Wiring                                               | 130           |
| Hubs                         | Wheel-Brake                                                | 10            |
| Ignition System              | Generator-Alternator-Starter-Distributor                   | 103           |
| Instrument Cluster           | Generator-Alternator-Starter-Distributor                   | 103           |
| Lamps                        | Lamps-Wiring                                               | 130           |
| Lever (Gearshift)            | Transmission-Clutch                                        | 70            |
| Manifolds                    | Fuel                                                       | 90            |
| Mirrors                      | Bumpers-Mirrors-Speedo. Cable-Tow Hooks-<br>Wipers-Washers | 175           |
| Muffler                      | Frame-Muffler-Exhaust                                      | 50            |
| Oil Pump                     | Engine                                                     | 60            |
| Piston and Connecting Rod    | Engine                                                     | 60            |
| Pump (Fuel)                  | Fuel                                                       | 90            |
| Pump (Oil)                   | Engine                                                     | 60            |
| Pump (Water)                 | Cooling-Grille                                             | 80            |
| Radiator                     | Cooling-Grille                                             | 80            |
| Radios                       | Air Cond.-Heaters-Radios-Shock Absorbers                   | 180           |
| Rear Axle                    | Rear Axle                                                  | 40            |
| Rear Springs                 | Springs-Rear Suspension                                    | 50            |
| Shaft (Coupling)             | Driveshaft-Coupling Shaft                                  | 40            |
| Shock Absorbers              | Air Cond.-Heaters-Radios-Shock Absorber                    | 180           |
| Spare Wheel Carrier          | Wheel-Brake                                                | 10            |
| Speedo. Cable                | Bumpers-Mirrors-Speedo. Cable-Tow Hooks-<br>Wipers-Washers | 175           |
| Springs                      | Springs-Rear Suspension                                    | 50            |
| Stabilizer (Front)           | Front Axle-Steering                                        | 30            |
| Starter                      | Generator-Alternator-Starter-Distributor                   | 103           |
| Steering                     | Front Axle-Steering                                        | 30            |
| Steering Wheel               | Front Axle-Steering                                        | 30            |
| Suspension (Front)           | Front Axle-Steering                                        | 30            |
| Suspension (Rear)            | Springs-Rear Suspension                                    | 50            |
| Tank (Fuel)                  | Fuel                                                       | 90            |
| Tow Hooks                    | Bumpers-Mirrors-Speedo. Cable-Tow Hooks-<br>Wipers-Washers | 175           |
| Thermostatic Choke Control   | Fuel                                                       | 90            |
| Transfer Case                | Transmission-Clutch                                        | 70            |
| Transmission (Automatic)     | Automatic Transmission                                     | A70           |
| Transmission (Manual)        | Transmission-Clutch                                        | 70            |
| Valves, Push Rods and Covers | Engine                                                     | 60            |
| Voltage Regulator            | Generator-Alternator-Starter-Distributor                   | 103           |
| Water Pump                   | Cooling-Grille                                             | 80            |
| Wheels                       | Wheels-Brakes                                              | 10            |
| Windshield Wiper and Washers | Bumpers-Mirrors-Speedo. Cable-Tow Hooks-<br>Wipers-Washers | 175           |
| Wiring                       | Lamps-Wiring                                               | 130           |

• Applicable to Loose Leaf Catalogs only.  
October, 1979

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NEW ISSUE

**GENERAL  
INFORMATION**

**1973/79  
TRUCK SERIES 100/500**

**BODY PARTS ILLUSTRATION INDEX**

| MAJOR GROUP                | • TABBED DIVIDER TITLE                   | INDEX SECTION         |
|----------------------------|------------------------------------------|-----------------------|
| American Road Camper Parts | Recreational Vehicles                    | Refer to text catalog |
| Back Door                  | Body Parts                               | Δ                     |
| Door Parts                 | Body Parts                               | Δ                     |
| Exterior Trim              | Sheet Metal-Exterior Mldg.-Interior Trim | Δ                     |
| Interior Trim              | Sheet Metal Exterior Mldg.-Interior Trim | Δ                     |
| Platform and Racks         | Sheet Metal-Exterior Mldg.-Interior Trim | Δ                     |
| Seats                      | Body Parts                               | Δ                     |
| Sheet Metal                | Sheet Metal-Exterior Mldg.-Interior Trim | Δ                     |
| Storage Compartment        | Body Parts                               | Δ                     |
| Windows (Back and Side)    | Body Parts                               | Δ                     |
| Windshield                 | Body Parts                               | Δ                     |

**HOW TO USE THIS CATALOG**

There are three ways of finding part numbers if the group number is not known.

1. By Part Name
2. By Illustration
3. By Identification

Should an inquiry be received for a radiator grille for a 1978 F100:

**BY PART NAME -**

- A. Refer to the Chassis Parts Alphabetical Index in the Text Catalog, form FPS 8096-A.
- B. Refer to the alphabetical nomenclature and find the part name "Grille (radiator)".  
The group number listed is 8200.
- C. Refer to group number 8200 and locate 1973 in the "YEAR" column. Find the series F100/350 in the "MODEL/RESTRICTIONS" column.
- D. The part number shown is D5TZ 8200-A.

**BY ILLUSTRATION -**

- A. Refer to the tabbed divider marked "COOLING-GRILLE" in this catalog.
- B. Refer to the index immediately behind the divider and find the illustration titles for the F Series.
- C. Under the heading "RADIATOR GRILLE and RELATED PARTS" find the "Grille" illustration for the 1973 F100.
- D. Refer to the illustration designated (on page 2 of Illustration Section 82) and find the group number for the grille to be 8200.
- E. Refer to group number 8200 in the Text Catalog and locate 1973 in the "YEAR" column. Find the series F100/350 in the "MODEL/RESTRICTIONS" column.
- F. The part number shown is D5TZ 8200-A.

**BY IDENTIFICATION -**

Certain parts and most major assemblies are identified with a part number shown on an attached tag or plate or on the part itself. Reference to identification numbers is made throughout the catalog and cross reference charts are included in some sections to provide immediate knowledge of the service part number when the identification number is known. All identification information other than charts will be preceded by the symbol (#).

**IMPORTANT -** Identification tags and plates must be retained with the part or assembly with which they are originally supplied.

- 
- Applicable to Loose Leaf Catalogs only.
  - Δ Refer to Index Section in front of Body Illustrations.

**1973/79  
TRUCK SERIES 100/500**

**GENERAL  
INFORMATION**

5

**HOW TO ORDER PARTS**

When ordering parts, always give the complete part number.

In the event the part number is not known, the following information should be included.

- A. Complete description of part.
- B. Model year and body type.
- C. Dimension, number of teeth, size, etc., if possible rough sketch of part.
- D. If applicable to engine, transmission, axle, steering, etc., specify type, such as 302 cubic inch, Automatic Transmission, Power Steering, etc.
- E. Advise how shipment is to be made - Freight, Express, Air, Parcel Post.

**EXPLANATION OF SYMBOL ★**

★Symbol indicates part is not supplied for service due to the following:

- a. Part is superseded and replaced as indicated in the description column of the text catalog.
- b. Part can be improvised as indicated in the description column of text catalog.
- c. Due to its function there would be little or no demand.

NOTE - ALWAYS REFER TO THE DESCRIPTION COLUMN OF THE TEXT FOR POSSIBLE SUBSTITUTION, OR FOR MATERIAL SPECIFICATIONS AND DIMENSIONS WHICH MAY BE HELPFUL IN OBTAINING THE NON-SERVICED PART LOCALLY.

# 1973/79 TRUCK SERIES 100/500

ILLUSTRATION  
SECTION 103

A

## INDEX

INCLUDED IN THIS INDEX ARE THE FOLLOWING MAJOR GROUPS IN THE ORDER SHOWN BELOW

ALTERNATOR  
BATTERY CARRIER  
DISTRIBUTOR  
EMISSION SYSTEM

GOVERNOR ASSY.  
IGNITION WIRING  
INSTRUMENT CLUSTER  
STARTER  
VOLTMETER

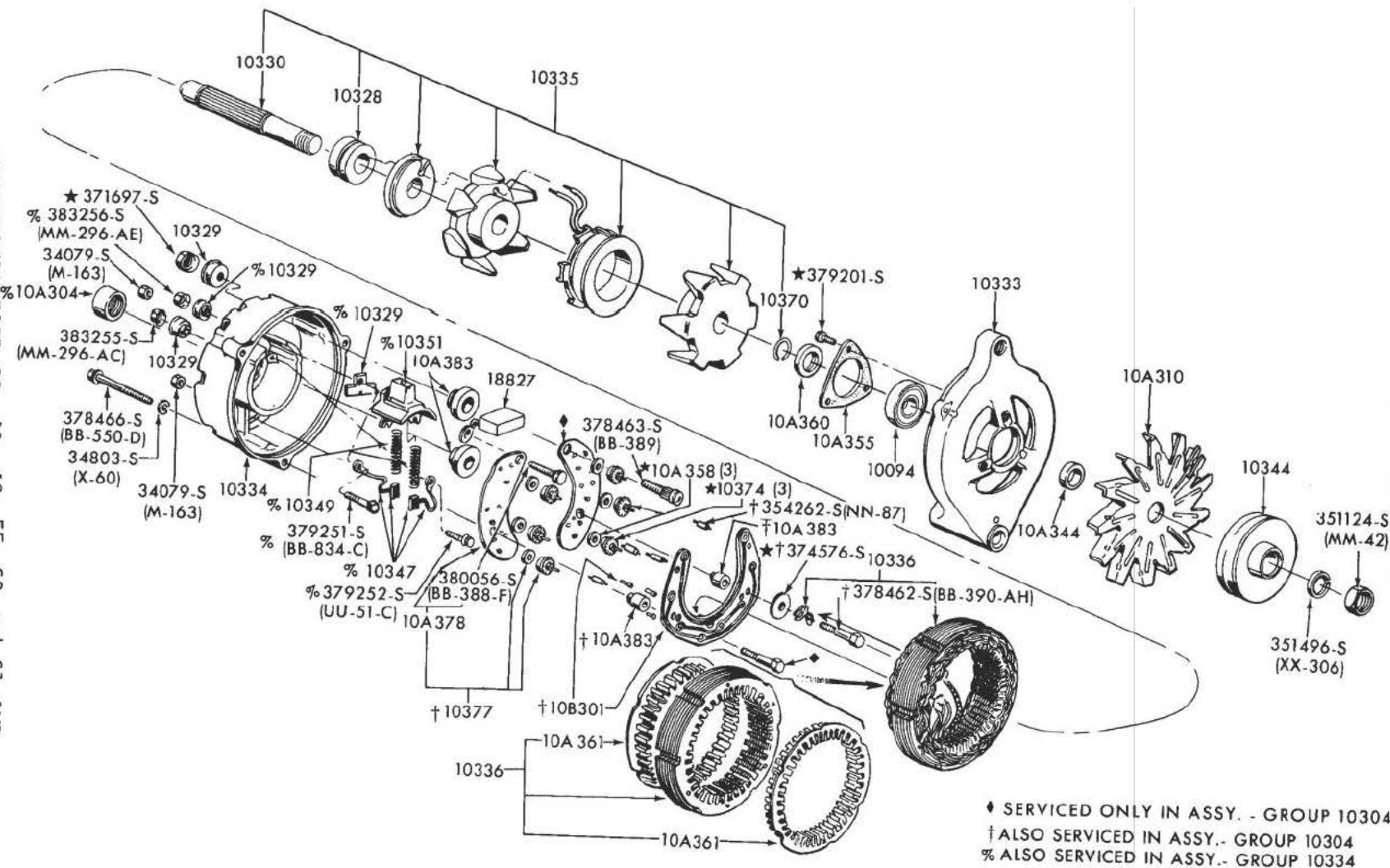
| YEAR<br>19__                                               | TITLE                                                                      | SECTION                  | PAGE    | ILLUS.<br>NO. |               |
|------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------|---------|---------------|---------------|
| ALTERNATORS                                                |                                                                            |                          |         |               |               |
| 73/                                                        | Alternator-Ford 38, 40, 42, 55, 60 and 61 amp.                             | 103                      | 1       | P-4508        |               |
| 73/                                                        | Alternator-Ford 70 amp.                                                    | 103                      | 2       | P-5394        |               |
| 75/                                                        | Alternator-Motorcraft 90, 100 amp.                                         | 103                      | 3       | P-10328       |               |
| 76/                                                        | Alternator mounting brackets--F100, E100-6 cyl. 300                        | 103                      | 4       | P-12724       |               |
| 76/                                                        | Alternator mounting brackets--F100-8 cyl. 302                              | 103                      | 4       | P-12725       |               |
| 76/                                                        | Alternator mounting brackets--E250/350-8 cyl. 460                          | 103                      | 5       | P-12726       |               |
| 76/                                                        | Alternator mounting brackets--F150/350-8 cyl. 460                          | 103                      | 5       | P-12727       |               |
| 76                                                         | Alternator mounting brackets--F100/350-8 cyl. 360, 390-with T/E            | 103                      | 6       | P-12728       |               |
| 76                                                         | Alternator mounting brackets--F100/350-8 cyl. 360, 390-without T/E         | 103                      | 6       | P-12729       |               |
|                                                            |                                                                            |                          |         |               |               |
|                                                            |                                                                            |                          |         |               |               |
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| YEAR<br>19__                                               | TITLE                                                                      | MODEL                    | SECTION | PAGE          | ILLUS.<br>NO. |
| BATTERY CARRIERS                                           |                                                                            |                          |         |               |               |
| 73/74                                                      | Battery carrier and related parts                                          | E100/300                 | 106     | 10            | P-6723        |
| 75/                                                        | Battery carrier and related parts--6 cyl. eng.                             | E100/350                 | 106     | 13            | P-12096       |
| 75/                                                        | Battery carrier and related parts--8 cyl. eng.                             | E100/350                 | 106     | 14            | P-12097       |
| 73/                                                        | Battery carrier and related parts                                          | F100/350                 | 106     | 9             | P-5307        |
| 73/77                                                      | Battery carrier and related parts-typical                                  | B-F500                   | 106     | 9             | P-5786        |
| 73/77                                                      | Battery carrier and related parts                                          | P350/500                 | 106     | 10            | P-11936       |
| 73/                                                        | Battery carrier and related parts (L. H. fender-mounted-auxiliary battery) | F100/350--w/dual battery | 106     | 12            | P-10751       |
| 73/76                                                      | Battery carrier and related parts                                          | M450/500                 | 106     | 12            | P-11421       |
|                                                            |                                                                            |                          |         |               |               |
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| YEAR<br>19__                                               | TITLE                                                                      | SECTION                  | PAGE    | ILLUS.<br>NO. |               |
| DISTRIBUTORS                                               |                                                                            |                          |         |               |               |
| 73/                                                        | Distributor (conventional)--6 cyl. eng.                                    | 120                      | 1       | P-10451       |               |
| 73/                                                        | Distributor (conventional)--8 cyl. eng.                                    | 120                      | 2       | P-9288        |               |
| 74/                                                        | Distributor (breakerless)--8 cyl. eng.                                     | 120                      | 3       | P-11057       |               |
| 74                                                         | Distributor (breakerless)--6 cyl. eng.                                     | 120                      | 3       | P-11057       |               |
| 75/                                                        | Distributor (breakerless)--6 cyl. eng.                                     | 120                      | 4       | P-12857       |               |
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|                                                            |                                                                            |                          |         |               |               |
| DISTRIBUTOR VACUUM HOSES                                   |                                                                            |                          |         |               |               |
| 78/                                                        | Distributor vacuum hoses--F150-8 cyl. 302-exc. Calif.                      | 120.2                    | 1       | P-14306       |               |
|                                                            |                                                                            |                          |         |               |               |
|                                                            |                                                                            |                          |         |               |               |
| EMISSION SYSTEM                                            |                                                                            |                          |         |               |               |
| Emission system - exhaust gas recirculation (E.G.R.)       |                                                                            |                          |         |               |               |
| --Refer to emissions in Illustration Index 90 Section 94.1 |                                                                            |                          |         |               |               |
|                                                            |                                                                            |                          |         |               |               |
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B

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**1973/79  
TRUCK SERIES 100/500**
**INDEX**

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| 73/77                                            | Ignition wiring (conventional distributor) system-typical--B-E-F-P100/500-6 cyl.<br>240 and 300 | 120.1   | 2    | P-8239        |
| 73/                                              | Ignition wiring (conventional distributor) system-typical--E-F100/350-6 cyl.<br>240 and 300     | 120.1   | 2    | P-8239        |
| 73/74                                            | Ignition wiring (conventional distributor) system-typical--E100/300 and F100-<br>8 cyl. 302     | 120.1   | 3    | P-8240        |
| 73/74                                            | Ignition wiring (conventional distributor) system-typical--F100/350-8 cyl. 360 and 390          | 120.1   | 4    | P-8244        |
| 73/74                                            | Ignition wiring (conventional distributor) system-typical--B-F500-8 cyl. 330 M/D                | 120.1   | 5    | P-8241        |
| 74/                                              | Ignition wiring (breakerless distributor) system-typical--B-F500, P350/500-6 cyl. 300           | 120.1   | 6    | P-11780       |
| 74/                                              | Ignition wiring (breakerless distributor) system-typical--F100-8 cyl. 302                       | 120.1   | 7    | P-11781       |
| 74/75                                            | Ignition wiring (breakerless distributor) system-typical--F100/350-8 cyl. 360 and 390           | 120.1   | 8    | P-11782       |
| 74/                                              | Ignition wiring (breakerless distributor) system-typical--F100/350-8 cyl. 460                   | 120.1   | 9    | P-11783       |
| <b>GOVERNOR ASSEMBLY</b>                         |                                                                                                 |         |      |               |
| 73/                                              | Governor assy.-velocity type-typical--6 cyl. 300                                                | 120.1   | 1    | P-6700        |
| <b>INSTRUMENT CLUSTERS</b>                       |                                                                                                 |         |      |               |
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| 73/                                              | Instrument cluster and related parts--F100/350(81)-w/warning lights                             | 106     | 2    | P-10168       |
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| 73/77                                            | - w/integral solenoid w/side cable attachment                                                   | 110     | 2    | P-5952        |
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ALTERNATOR-FORD 38, 40, 42, 55, 60 and 61 AMP.  
1973/



1973/79  
TRUCK SERIES 100/500

ILLUSTRATION  
SECTION 103

**1973/79  
TRUCK SERIES 100/500**

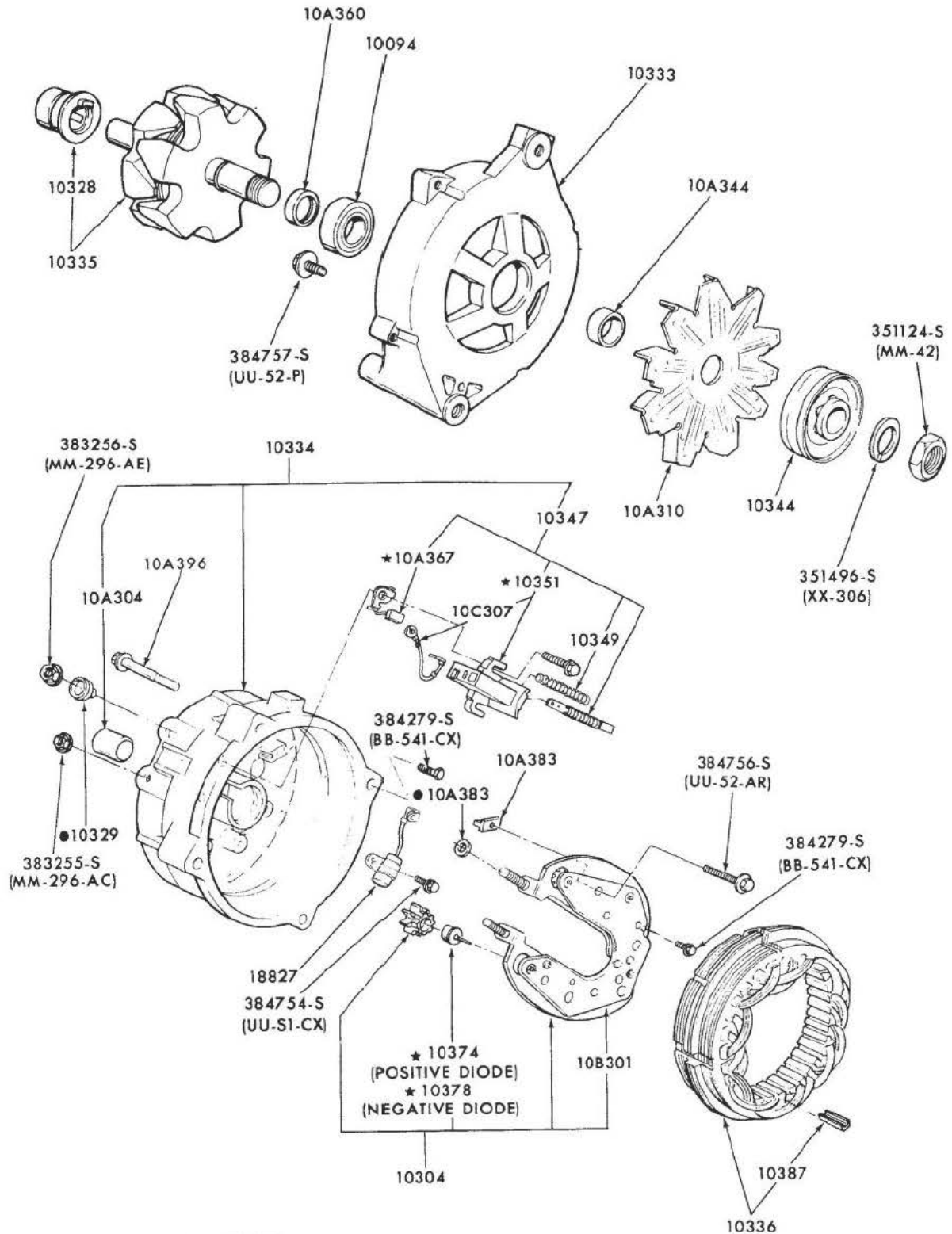


ALTERNATOR-FORD 70 AMP.  
1973/

**1973/79  
TRUCK SERIES 100/500**

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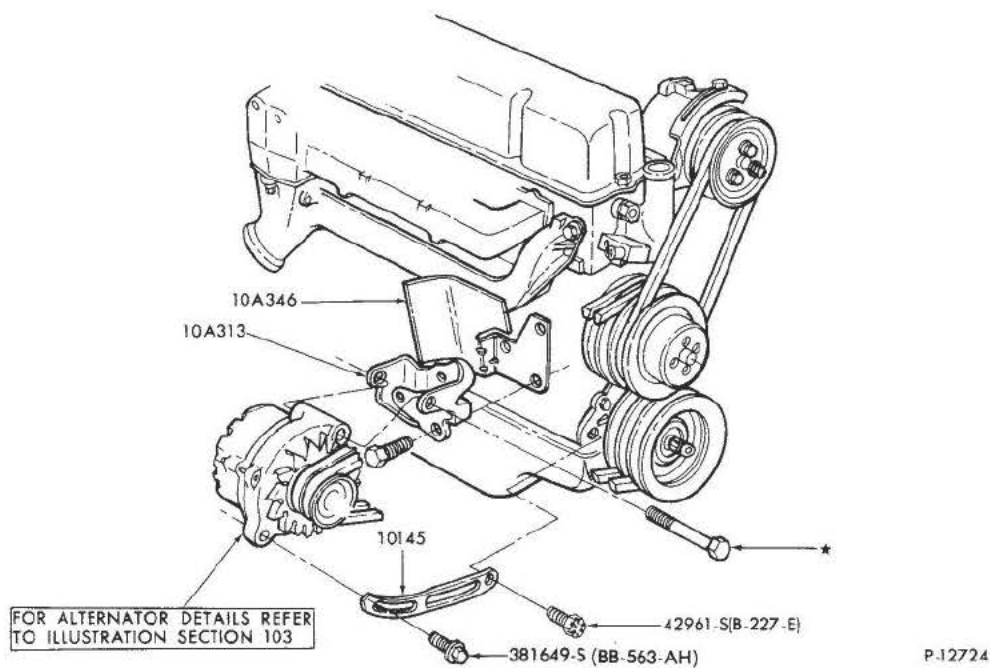
3



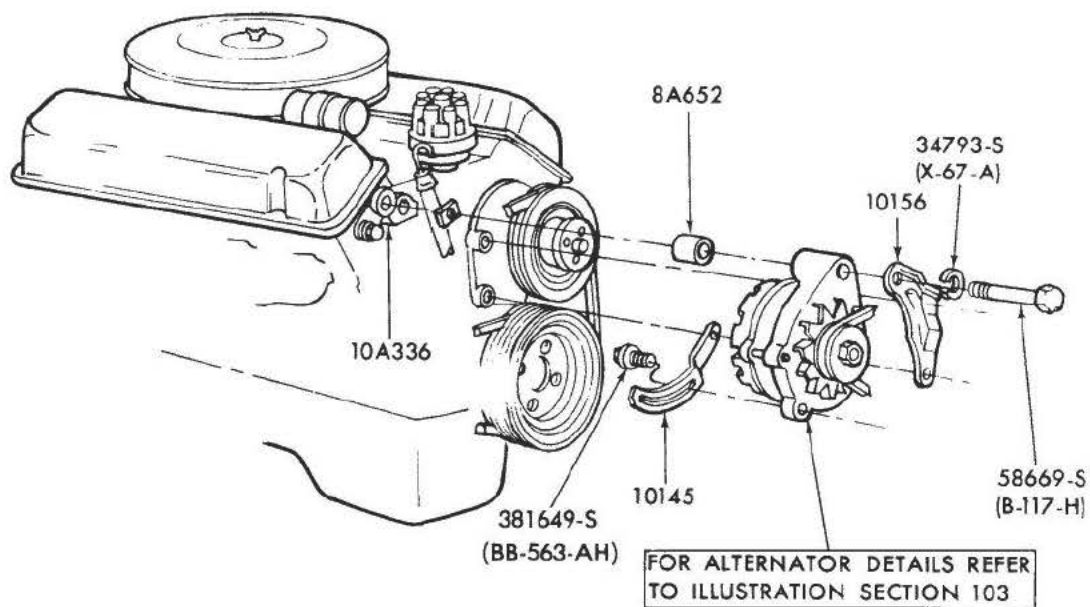
● ALSO PART OF 10A383 KIT

P-10328

ALTERNATOR - MOTORCRAFT 90 and 100 AMP.  
1975/

**1973/79  
TRUCK SERIES 100/500**

ALTERNATOR MOUNTING BRACKETS  
1976/ F100 and E100--6 CYL. 300



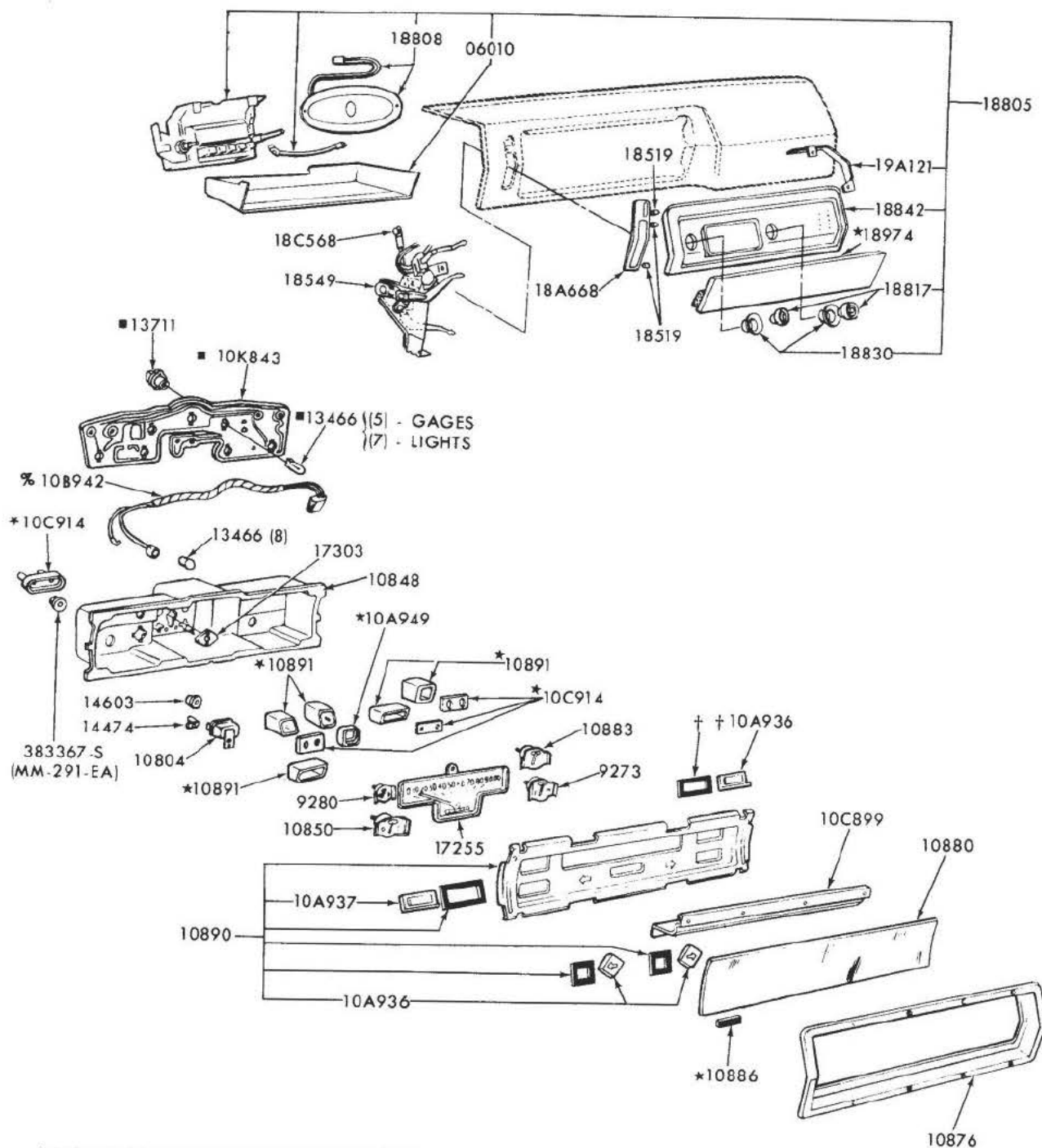
P-12725

ALTERNATOR MOUNTING BRACKETS  
1976/ F100--8 CYL. 302

**1973/79  
TRUCK SERIES 100/500**

**ILLUSTRATION  
SECTION 106**

**1**



† ALSO SUPPLIED IN 10890 MASK ASSEMBLY  
■ 1970/  
% 1969

P-8999

**INSTRUMENT CLUSTER and RELATED PARTS  
1973/74 E100/300**

October, 1979

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COMPANY

**NEW ISSUE**



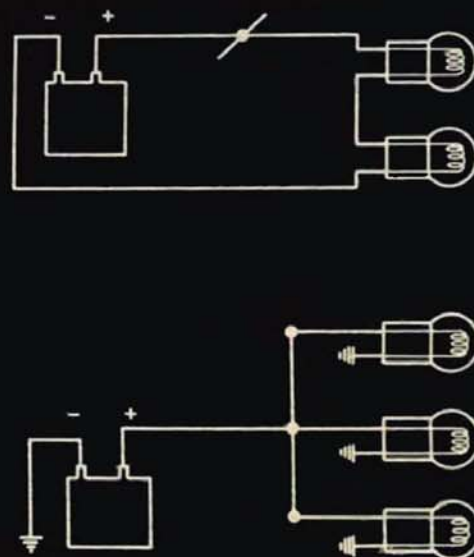
READY REFERENCE

13001

# HOW TO READ WIRING DIAGRAMS



VOL 68 S7 L2A



# HOW TO READ WIRING DIAGRAMS

COURSE 13001 • VOL. 68 S7 L2A

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The descriptions, testing procedures, and specifications in this handbook were in effect at the time the handbook was approved for printing. Ford Motor Company reserves the right to discontinue models at any time, or change specifications, design, or testing procedures without notice and without incurring obligations.

NATIONAL SERVICE OFFICE  
FORD DIVISION



FIRST PRINTING — JANUARY, 1968

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DEARBORN, MICHIGAN

# INTRODUCTION

## *The Why and Wherefore of Wiring Diagrams*

To the uninformed, a wiring diagram — or a wiring assembly — looks like it might take a genius to figure out.

Not so — as you'll find out when you get better acquainted with these subjects.

There're as understandable and logical as a road map and road markers, when you're finding your way on a cross-country drive.

The ability to read a wiring diagram and relate it to a vehicle's wiring system is, of course, an essential part of a modern service technician's skill. And it's growing in relative importance, too, due to owner's increasing demands for the comforts and conveniences supplied by electrically-operated options and accessories. This opens up greater opportunities, for the forward-looking technician.

## *The Purpose of this Booklet . . .*

. . . is to acquaint you with the systems by which electrical circuits are traced on vehicles. Specifically, it is designed to help you acquire the ability to make your own power checks, quickly and accurately.

## *Scope of the Booklet*

Basically, this is a printed version of the film, "How to Read a Wiring Diagram." It is in no sense a manual of the shop methods by which electrical repairs are made.

It *can* be a helpful guide that can introduce you to the principles of wiring diagrams and vehicle wiring. As you gain experience in reading wiring diagrams, you'll accumulate your own know-how in this important skill. When it becomes "second nature" to you, these pages will have served their purpose — and yours.

**Buy Now**

