H-D WIRING MADE EASY

jump boy, jump
About This Book
This project started when I rebuilt a wrecked Shovel in the early ‘80’s. The factory wiring schematic was helpful but hard to read and not real durable.

My solution was to lay out several sheets of tracing paper on the kitchen table, then sketch out an as-built drawing that was big enough to see and easy to understand. It worked fine then, but lacked portability.

Now those originals have been cleaned up, revised, and converted to Acrobat digital format — viewable on any platform, prints on any printer, easy enough for anyone to follow, and provides enough wiring basics for just about any project.

AMP Connectors
The toughtest thing about wiring an AMP socket is pin spacing, especially with larger sockets. The pin numbering’s next to invisible, soldering’s difficult, and you’ve got to make sure the numbers match - 1 to 1, 2 to 2, etc. But once installed, these connections are a foolproof and tidy project.

Connections require two connectors; a male and a female socket. There’s a big range of pin capacities, and there are designs for use in bulkheads. (Note: these aren’t push on-pull off friction fit, spade-type, or pin-lock, but full lock ring connectors designed to be plugged and unplugged repeatedly.)

The pin tool is an absolute necessity for creating and repairing connections. Trying to remove pins without the tool is guaranteed to wreck both your day and your components. And remember the dielectric grease for coating finished connections.

Relay Testing
The relay testing schematic is useful for any number of applications, including your starter wiring. These seldom go bad. Most problems are simply the result of bad connections.
WIRING DIAGRAM: 1980 FXS
9 PIN AMP CONNECTOR

1. STARTER RELAY: BK
2. IGNITION BREAKER: GY, GN, GY
3. COIL: W, W, W
4. NEUTRAL SWITCH: Y, BK
5. OIL PRESSURE SWITCH: GN, BK
6. HORN: TN, BK
7. ACCESSORY BREAKER: O, O
8. LIGHT BREAKER: BE, BE
9. HI BEAM LIGHT: BK, PK

10. STARTER SWITCH: BK
11. RUN-OFF SWITCH: W
12. HEADLIGHT: BK

Connectors:
- MALE
- FEMALE
WIRING DIAGRAM: 1980 FXS TACHOMETER/SPEEDOMETER (3.5 GALLON FAT BOBS)
STARTER RELAY INSTALL

*1 FX to ACC/IGN BREAKER
*2 FL to BATTERY

STARTER RELAY TEST

STARTER SWITCH

STARTER SOLENOID

GROUND (STARTER)

TEST BULB

TEST SWITCH

12V