Vehicle Components:

Chassis – 1950 Ford F-1 pickup


Transmission – 4L60E, from 1998 C1500 pickup. Transmission to be controlled by TCI EZ-TCU stand alone controller

Steering column, master cylinder and pedal assemblies from 1998 C1500 pickup

Chassis wiring harness – American Autowire, Power Plus 20

Question #1  The transmission neutral safety switch has two plug points. I would be inclined to think that the reverse/backup light signal comes from this switch also. I need to identify the function of each of the plugs and individual wires. Specifically, the wires used for the neutral/park start switch interlock and wires used for the backup light. Also, what other wires from these two plugs need to be included to give normal transmission operation.

The first has 7 pins/wires - wire colors/location:

Violet – side of plug with notch & 3 pins
Lt. green – side of plug with notch & 3 pins
Violet w/white stripe – side of plug with notch & 3 pins
Black – side of plug with 4 pins
Pink – side of plug with 4 pins
Lt. green – side of plug with 4 pins
Yellow – side of plug with 4 pins

The second plug has 4 pins/wires:

White – side of plug with 2 notches, pos C
Yellow – side of plug with 2 notches, pos D
Black – smooth side of plug, pos A
Gray – smooth side of plug, pos B

Question #2  The brake switch has one 6 pin/wire plug: I need to identify the function of each of the wires and also how the neutral safety switch wires and brake wires are combined in series to give the complete neutral interlock function, i.e. the need to have the shift lever in neutral or park and have the brake pedal depressed to be able to start the engine. Also, what other wires from this plug need to be included to give normal brake pedal operation.

White – pos A
Orange – pos B
Lt. green – pos C
Dk. Green w/white stripe
Violet – pos E
Black – pos F (connecting plug has 2 black wires)
Question #3  Confirmation of the function of the headlight wires coming from the steering column harness. Provide connector number of the low beam function.

Connector E11, Lt. green, circuit 11 - is described as high beam headlight “feed”.
Connector E12, PPL, circuit 359 – is described as headlamp feed, daytime running lamps.
Connector E13, Yellow, circuit 10 – is described as headlamp switch “output”.

Question #4  Power to ignition switch, connectors D2 & D5, circuits 342 & 242 are both described as “fuse output battery, type II fuse”. Which of these connection points should be used or do both need to be used?

Question #5  Backup light feed. Which connector is used to power the backup lights? This will probably be combined with the details of question #1.

Question #6  Explain the terms - “feed”, “output” and “return”.

Question #7  Will the following connectors/circuits be needed in my simplified electrical system?

Connector A1, circuit 17
Connector A2, circuit 139
Connector A13, circuit 41
Connector A17, circuit 1135
Connector C1, circuit 1390
Connector E8, circuit 140