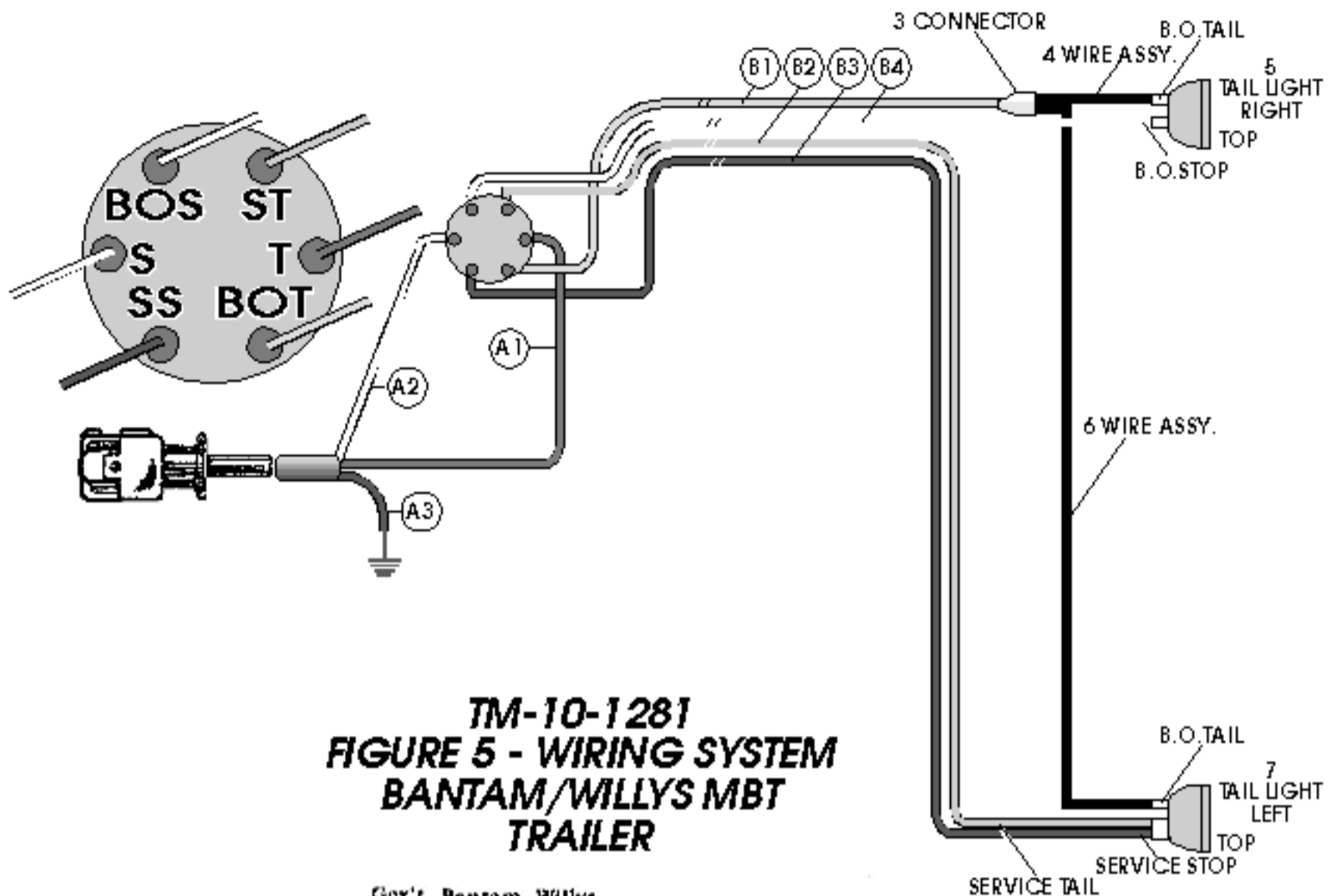


ELECTRICAL SYSTEM



TM-10-1281
FIGURE 5 - WIRING SYSTEM
BANTAM/WILLYS MBT
TRAILER

Item No.	Gov't Group No.	Bantam Part No.	Willys Part No.	Name
1	0606	14276	A-6021	Blackout Switch
2	0606	14317	A-6387	Coupling Socket Plug & Cable Assem.
3	0606	14356	635985	Connector (3-Way)
4	0606	14318	A-6340	Cable, Right (Connector to Blackout Tail Light)
5	0608	R-11540	A-1065	Tail Light Assembly—Right
6	0606	14342	A-6339	Cable, Left (Connector to Blackout Tail Light)
7	0608	R-11544	A-1064	Tail Light Assembly—Left

The wiring system Fig. 5, shows the general arrangement of all electrical circuits together with the units in relation to the position in which they are found. When inserting the socket plug in the back of the truck it is necessary to turn the lugs on the plug so that they line up with the slot in the socket. See Fig. 3.

Regular inspection of all connections avoids failures in the electrical system. To facilitate wiring, the terminals on the socket plug and light switch are marked. When tracing any one particular circuit in the wiring diagram, refer to the Wiring Chart below for color of wire and tracer.

COUPLING SOCKET CABLE ASSEMBLY

No.	Color	Name
A-1	Brown	Coupling Socket Terminal "TL" to Trailer Switch Terminal "T"—Cable
A-2	White	Coupling Socket Terminal "SL" to Trailer Switch Terminal "S"—Cable
A-3	Red	Coupling Socket Terminal "GR" to Trailer Ground—Cable

TRAILER WIRING HARNESS EXTENSION

No.	Color	Name
B-1	Yellow with 2 Black Tracers	Trailer Switch "BOT" to Blackout Tail Light Connector—Cable
B-2	Blue with 2 White Tracers	Trailer Switch "ST" to Service Tail Light—Cable
B-3	Red with 2 White Tracers	Trailer Switch "SS" to Service Stop Light—Cable
B-4	White with 2 Black Tracers	Trailer Switch "BOS" to Blackout Stop Light—Cable, Right side

OPERATION OF CAR AND TRAILER LIGHTING SYSTEM

Truck Main Light Switch Position	Foot Brake Off or On	Truck Tail Lights	Trailer Tail Light With Trailer Switch In Service Position	Trailer Tail Light With Trailer Switch Blackout Position
Off	Off	Off	Off	Off
Stoplight	Off	Off	Off	Off
Stoplight	On	Service Stop	Service Stop	Blackout Stop
Service Head	Off	Service Tail	Service Tail	Blackout Tail
Service Head	On	Service Tail & Service Stop	Service Tail & Service Stop	Blackout Tail & Blackout Stop
Blackout Head	Off	Blackout Tail	Service Tail	Blackout Tail
Blackout Head	On	Blackout Tail & Blackout Stop	Service Tail & Service Stop	Blackout Tail & Blackout Stop

The trailer lighting system operates in connection with the truck except in changing over from service to blackout or vice versa. In this case it is necessary to operate the light switch on the trailer located just below the hand brake lever. Push the switch cover aside, use a screw driver or the handle end of the car key to turn the switch ¼ turn to the right side of the trailer for blackout lights and to the left for service lights. When the truck main light switch is in position for the lights to operate, the stop lights function as the brakes are applied by the driver. Keep the trailer light switch turned to the left side of the trailer (Service Position), except when Blackout is desired.

The tail and stop lamps, Fig. 6, consist of two separately sealed units placed in the Lamp Body.

The upper left rear stop light, or service unit is a combination tail and stop light and consists of lens, gasket, reflector and a 21-3 C.P. Bulb. The upper right rear is a blackout stop light and uses a 3 C.P. bulb. The lower unit in each lamp is the blackout tail light. These bulbs, lenses and reflectors are sealed units. When a filament burns out, the bulb and lens unit must be replaced.

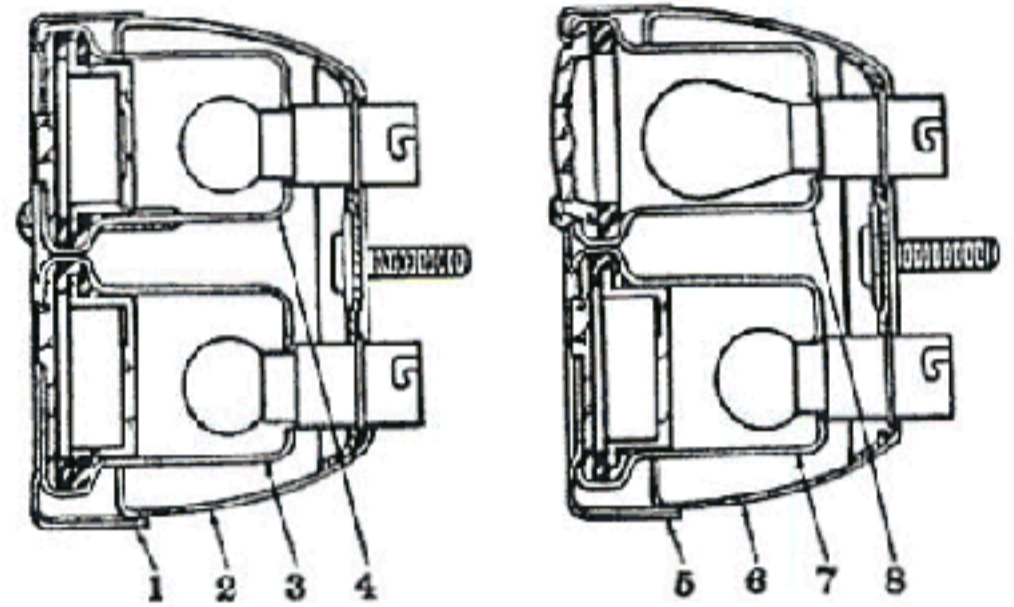


FIG. 6—TAIL LAMPS

Item No.	Gov't No.	Willys Part No.	Bantam Part No.	Name
1	0608	A-1079	R-21380	Door—Tail and Stop Lamp Assembly (Right)
2	0608	A-1073	R-21379	Housing Sub-Assembly
3	0608	A-1075	R-21357	Lower Tail Lamp Unit Assembly
4	0608	A-1078	R-21356	Upper Stop Lamp Unit Assembly—Tail and Stop Lamp Assembly (Right)
5	0608	A-1076	R-21381	Door—Tail and Stop Lamp Assembly (Left)
6	0608	A-1073	R-21379	Housing Sub-Assembly
7	0608	A-1075	R-21357	Lower Tail Lamp Unit Assembly
8	0608	A-1074	R-21355	Upper Service Assembly—Tail and Stop Lamp Assembly (Left)

ELECTRICAL TROUBLES AND REMEDIES

SYMPTOMS

Lights Burn Dim

- Loose or dirty terminals.....
- Leak in wires.....
- Poor switch contact.....
- Poor ground connection.....
- Poor plug connection.....
- Battery in truck not fully charged.....

- Clean and tighten
- Check entire circuit for broken insulation
- Install new switch
- Clean and tighten
- Re-connect to get good contact
- Recharge or replace

Do Not Light

- Bulb burned out.....
- Broken wire.....
- Connector dirty or loose.....
- Trailer light switch not fully on.....
- Trailer light switch in wrong position.....
- Ground connection poor.....
- Coupling socket connection poor.....
- Wires loose on switch or socket.....

- Replace service unit
- Splice and tape
- Clean and repair
- Switch on
- Turn switch
- Clean and tighten
- Re-connect
- Tighten

Wrong Lights On

- Connectors at light in wrong sockets.....
- Trailer light switch turned to wrong position.....

- Change around
- Turn switch

ELECTRICAL SYSTEM SPECIFICATIONS

Lamps:

- Light switch make..... Douglas
- Coupling and socket..... Wagner
- Tail and stop lamps..... Willys—Corcoran-Brown; Bantam—Arrow Safety
- Tail and stop lamp bulbs 6-8V 3-21CP, DC... Mazda No. 1154—6-8V 3 CP. SC... Mazda No. 63
- Blackout bulbs—6-8V 3CP. SC..... Mazda No. 63