



# FARFABBRI S.R.L.

MANUFACTURERS OF AMUSEMENT RIDES

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## SERVICE BULLETIN

RIDE: Ranger DATE: 4-02-90

SUBJECT: Delay time installation BULLETIN NUMBER: FR025

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Installation of on delay time and proximity switch on Ranger lap bar safety system.

- 1) Remove existing micro switch located on inside center hub.
- 2) Install new proximity switch and adapter plate, note adapter plate must be enter welded or bolted so that head or proximity switch is within 3/8 of an inch from metal indicator plate.
- 3) When proximity switch is fixed in place wire into the normal opened position with existing wires.
- 4) Mount and locate circuit braker and "on delay" timer on din rail near control contactors.
- 5) Located at bottom terminal block in electrical box mounted on center column are (2) terminal block with wire markers FC. Disconnect top two wires and connect them to N O contacts on delay timer. (8 & 6)
- 6) Install power wire from bottom of control circuit braker to 10 amp circuit braker supplied. Install another wire from bottom of 10 amp circuit braker to one FC terminal.
- 7) Install another wire from second "FC" terminal to terminal 2 of timer relay.
- 8) Install neutral wire from camlock (white) to terminal 7 on time relay.
- 9) Install indicator lamp in operator control panel next to meter.

- 10) Install two wires from lamp to terminals 10 and 11 on plug which connects to electric box on column.
- 11) Locate wires 10 and 11 in electrical panel or column and connect to terminal 2 and 7 or the relay.
- 12) Set time for approximately 3 seconds.

Lamp or control panel will indicate that ride is in correct loading position. The delay time will prevent the lap bar and gate relay from closing unless the ride has been in the loading position for at least 3 seconds. This is to prevent accidents releasing from momentary swing by in the loading position.

If any questions, please ask Exsaco Corporation at One North Santa Fe Street, Alvarado, Texas 76009. (817) 783-2265.