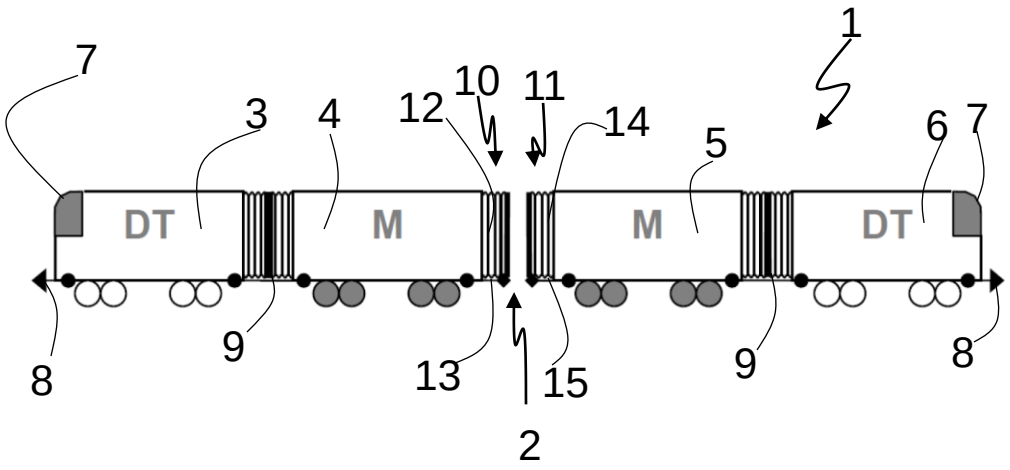

1
7
3
4
12
10
11
14
5
6
7
DT
M
M
DT
8
9
13
15
9
8
2

Fig. 1

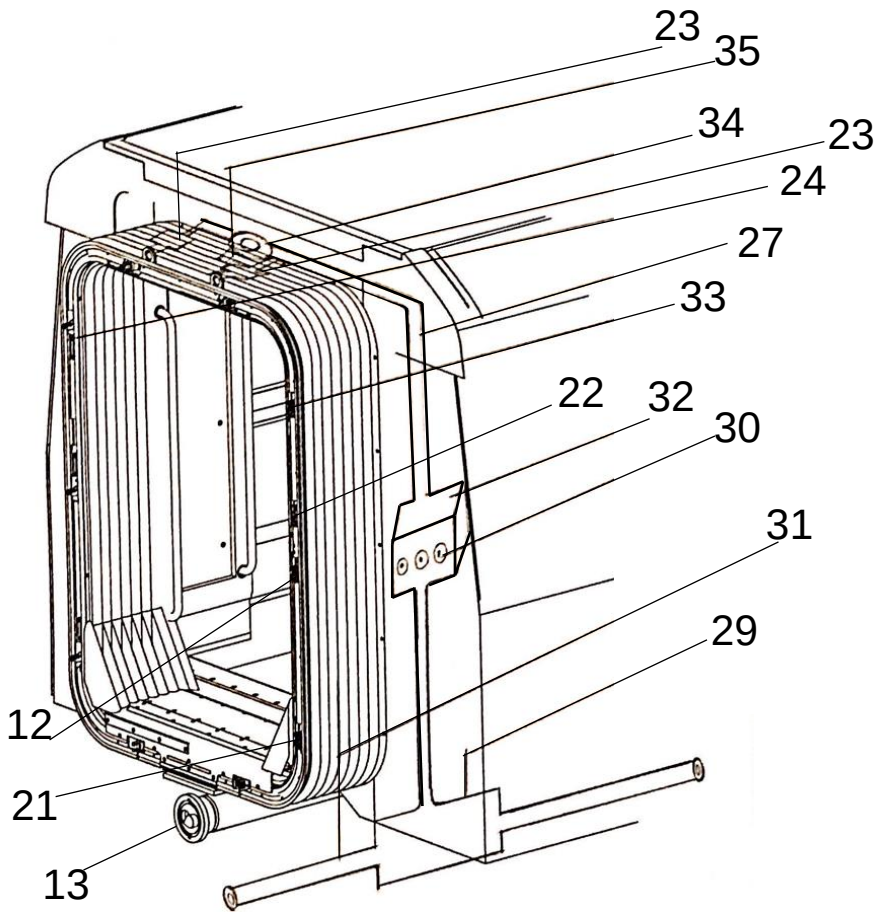

23
35
34
23
24
27
33
22
32
30
31
29
12
21
13

Fig. 2

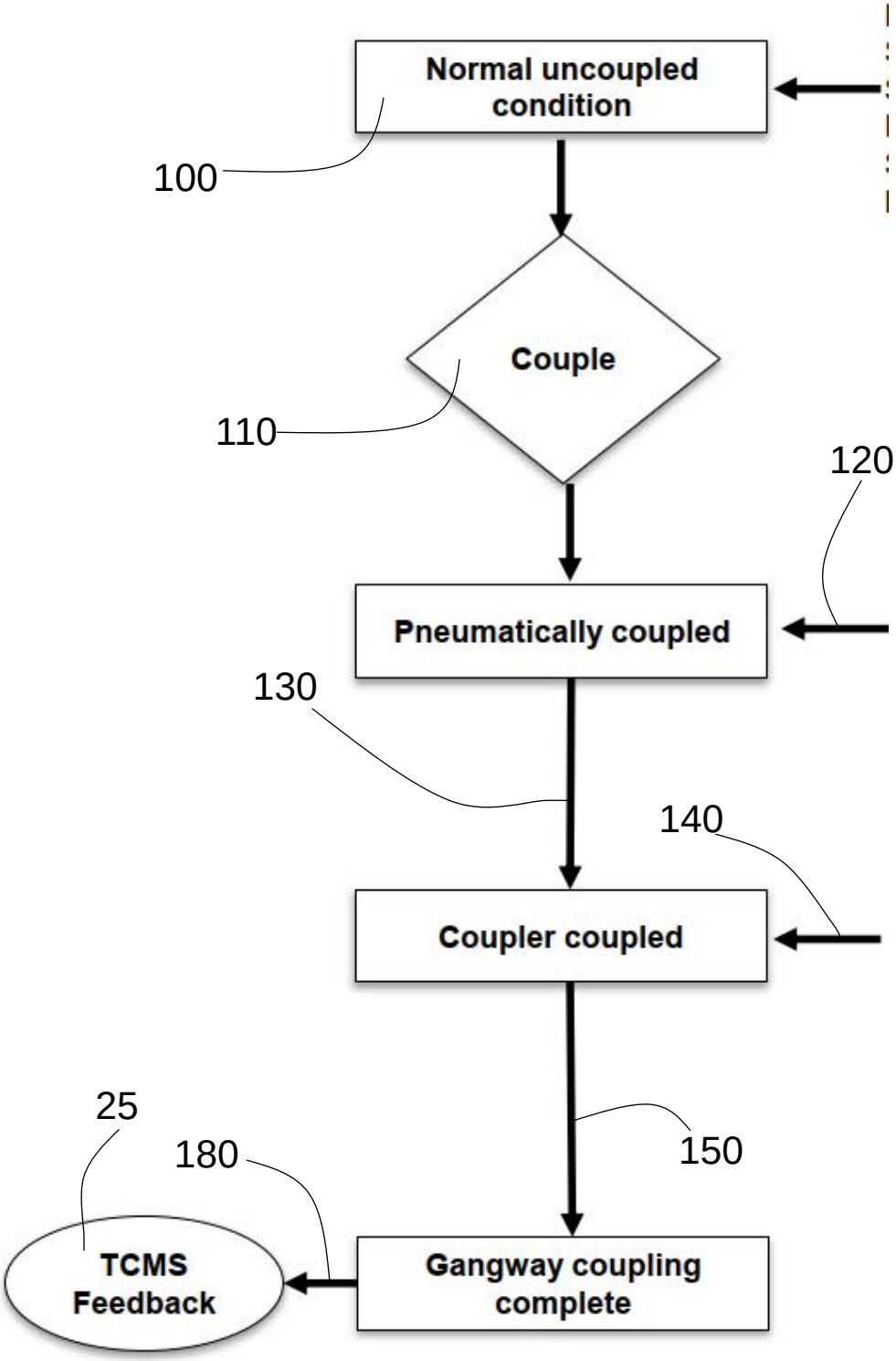

Normal uncoupled condition
100
Couple
110
120
Pneumatically coupled
130
140
Coupler coupled
25
180
150
TCMS Feedback
Gangway coupling complete

Fig. 3

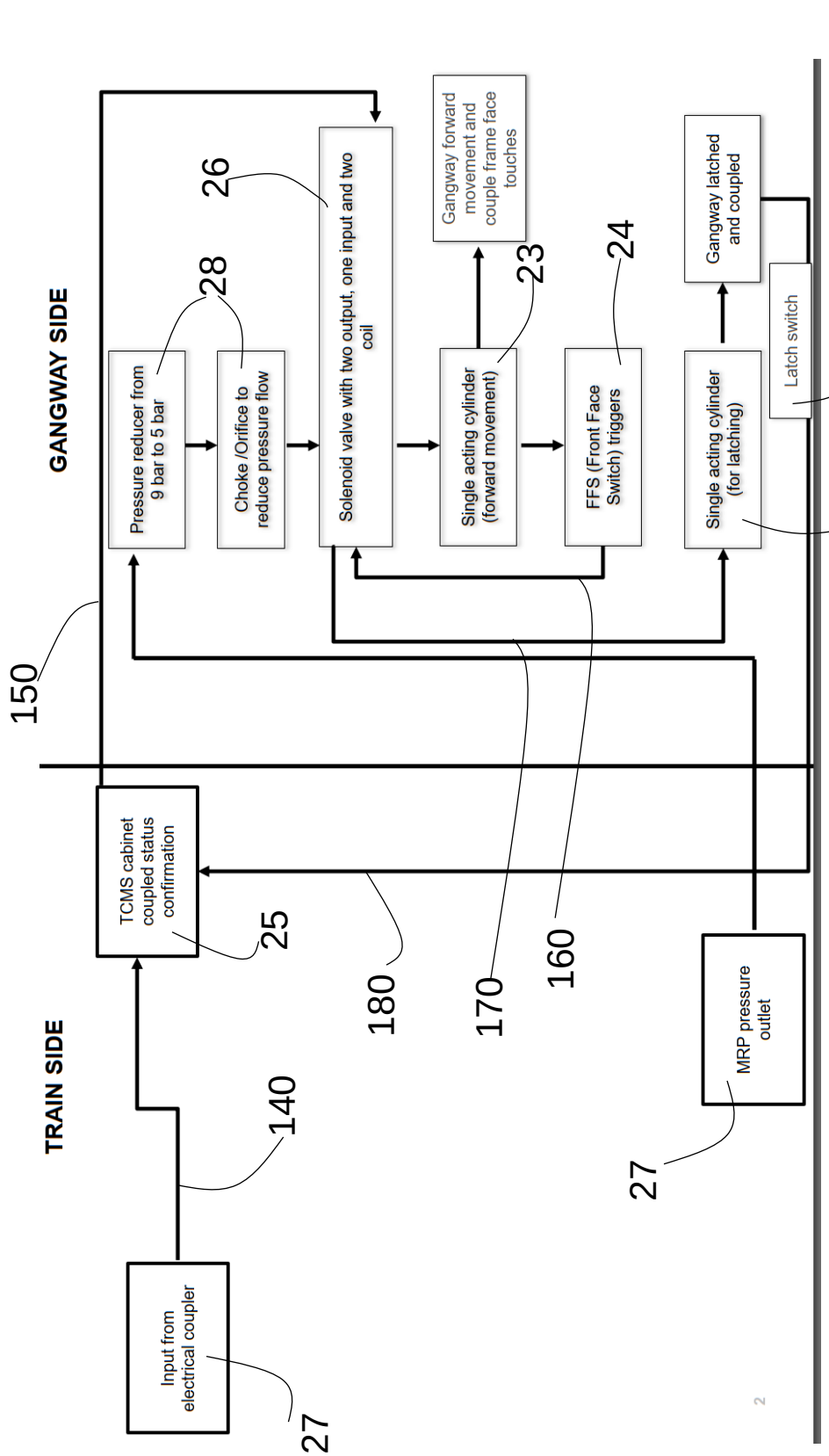

GANGWAY SIDE
TRAIN SIDE
Pressure reducer from 9 bar to 5 bar
Choke /Orifice to reduce pressure flow
Solenoid valve with two output, one input and two coil
Single acting cylinder (forward movement)
Gangway forward movement and couple frame face touches
FFS (Front Face Switch) triggers
Single acting cylinder (for latching)
Gangway latched and coupled
Latch switch
TCMS cabinet coupled status confirmation
MRP pressure outlet
Input from electrical coupler
150
140
180
170
160
25
26
28
23
24
22
21
27
27

Fig. 4

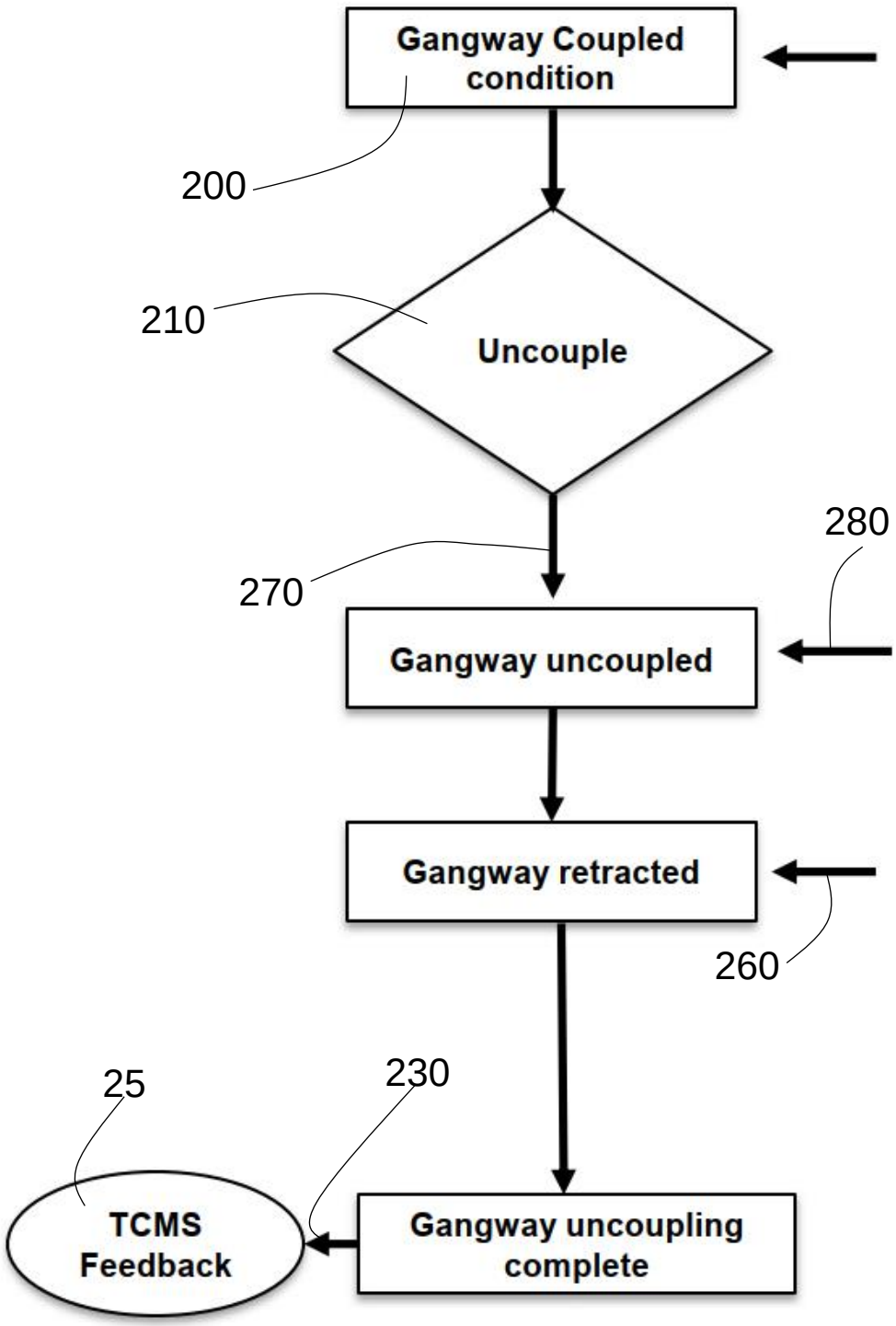

Gangway Coupled condition
200
210
Uncouple
280
270
Gangway uncoupled
Gangway retracted
260
25
230
TCMS Feedback
Gangway uncoupling complete

Fig. 5

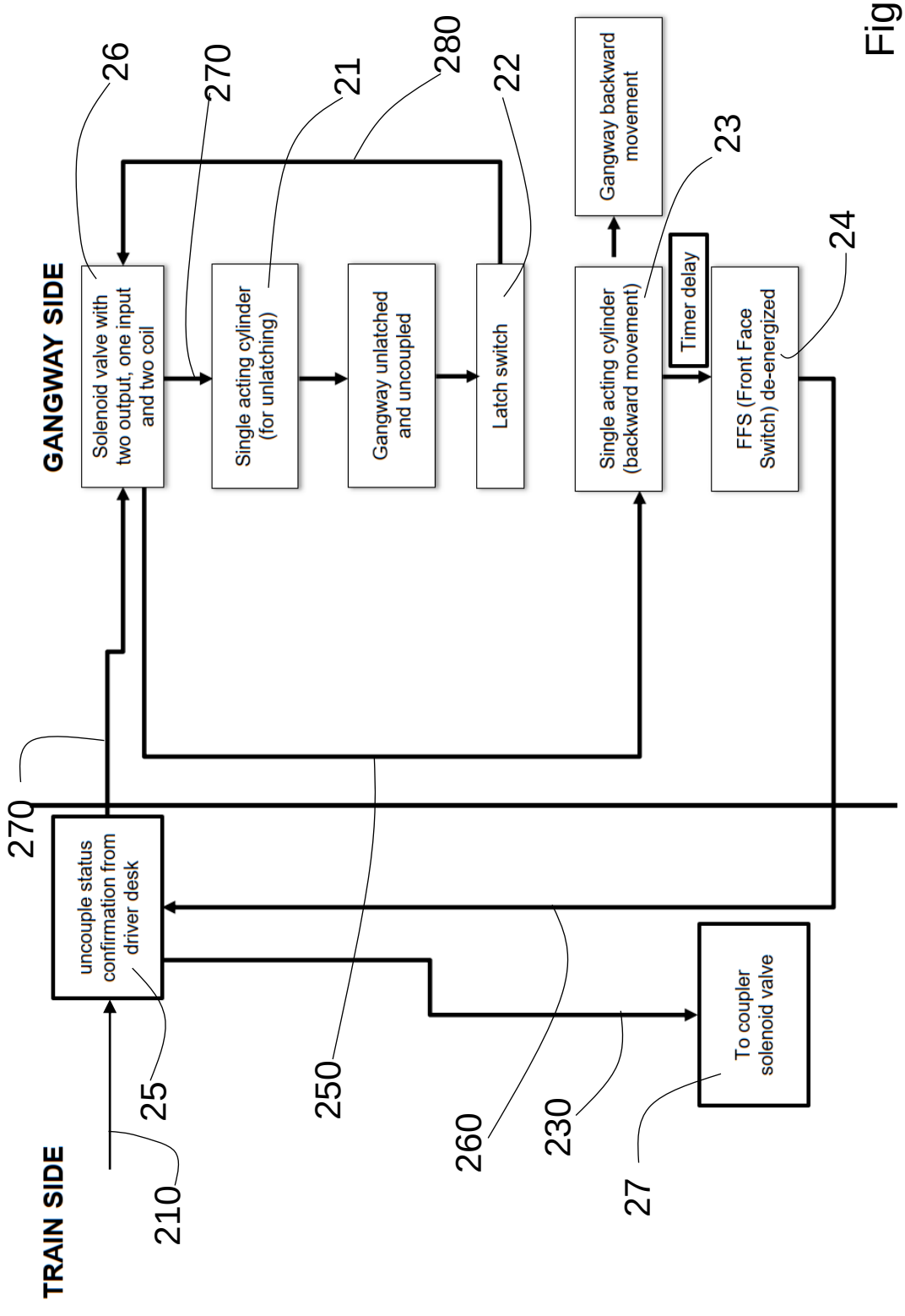

GANGWAY SIDE
TRAIN SIDE
Solenoid valve with two output, one input and two coil
Single acting cylinder (for unlatching)
Gangway unlatched and uncoupled
Latch switch
Single acting cylinder (backward movement)
Timer delay
FFS (Front Face Switch) de-energized
Gangway backward movement
uncouple status confirmation from driver desk
To coupler solenoid valve
26
270
21
280
22
23
24
270
25
210
250
260
230
27

Fig. 6