

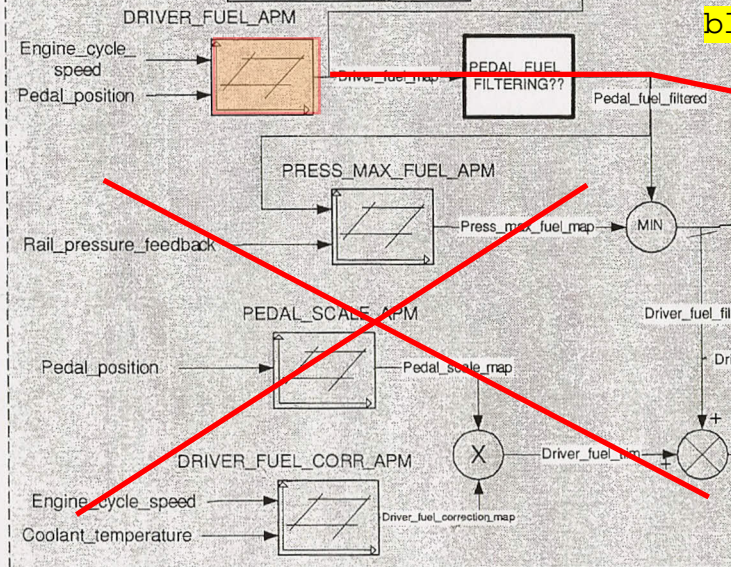
RENAULT

Delphi Diesel Systems



GLOBAL INJECTED FUEL SELECTION

DRIVER FUEL



bloc de calcul du ralenti

IDLE_FUEL_OFFSET_APV
IDLE_FUEL_OFFSET_SEL_APV

~~IDLE CONTROL~~

blocs de régulation et limitation de vitesse

~~CRUISE CONTROL~~

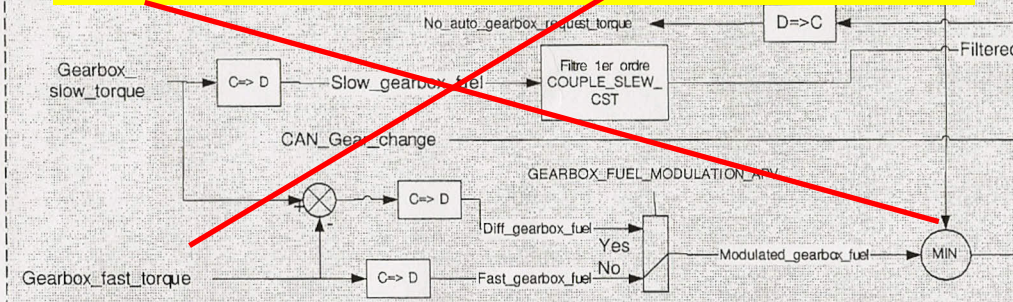
~~SPEED LIMITER CONTROL~~

~~MAX FUEL CALCULATION~~

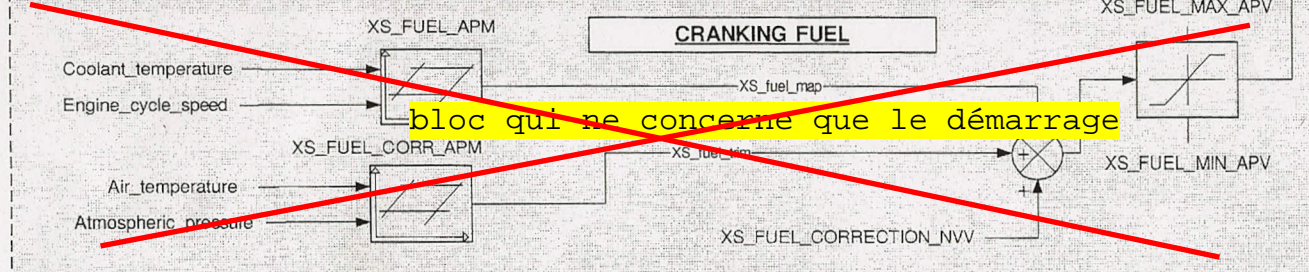
~~ANTI OSCILLATION STRATEGY~~

CAN FUEL

bloc des entrées du bus CAN (pas connecté) : informations provenant d'autres calculateurs



CRANKING FUEL



bloc qui ne concerne que le démarrage

m_fuel_pilotes

D=>C → Mean_effective_torque

MAIN_FUEL_DEMAND_MAX_APV

Checked_pilot_fuel_demand

Checked_pilot2_fuel_demand

m_fuel_main

m_fuel_total

FINAL INJECTED FUEL SELECTION

Checked_injected_fuel_demand

~~SOFT ENGINE STOP STRATEGY~~

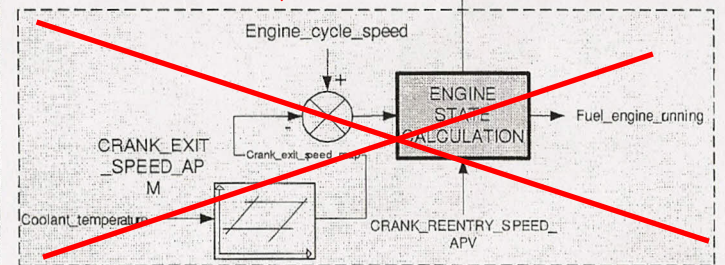
Selected_inj_fuel_demand

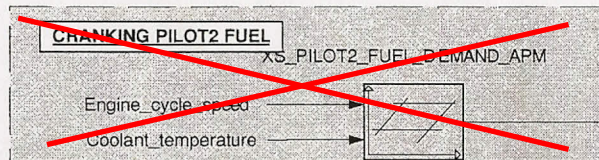
~~ECL_Demand_mode_active AND (NOT(ECL_inj_fuel_demand-ECL_INPRJT_INVALID_APV))~~

~~ECL_inj_fuel_demand~~

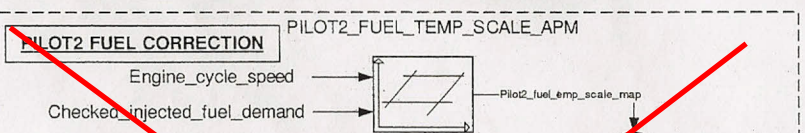
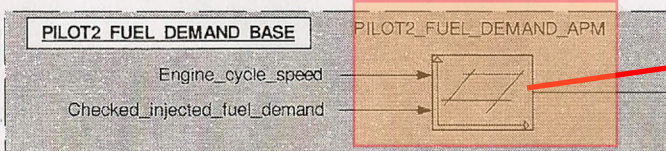
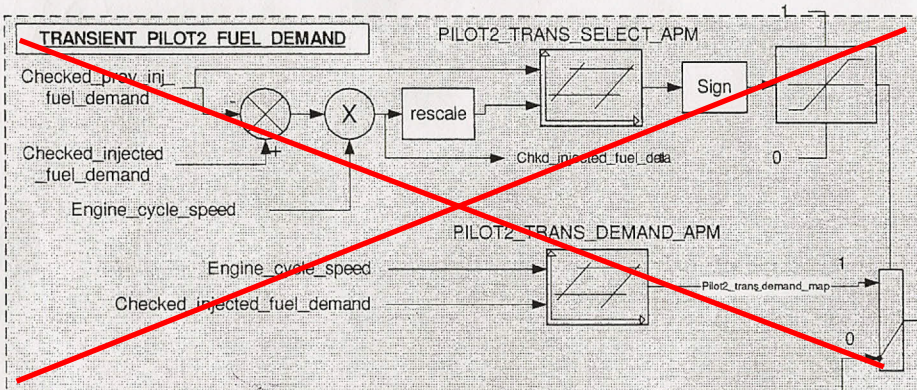
~~Mapped_inj_fuel~~

Engine_state

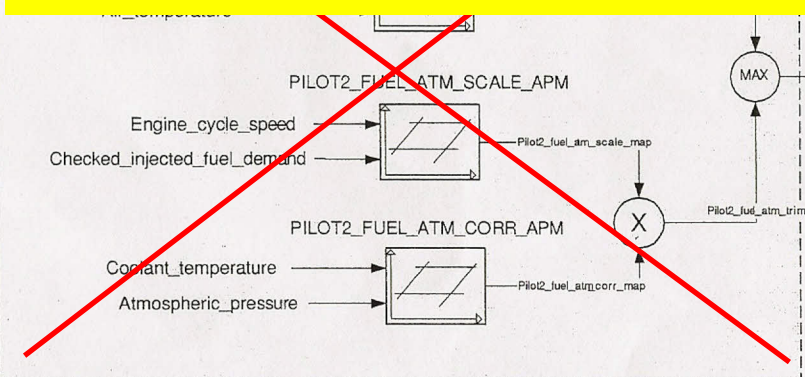




PILOT2 FUEL CALCULATION



bloc des corrections en fonction de la température d'eau, d'air et de la pression atmosphérique



Engine_state

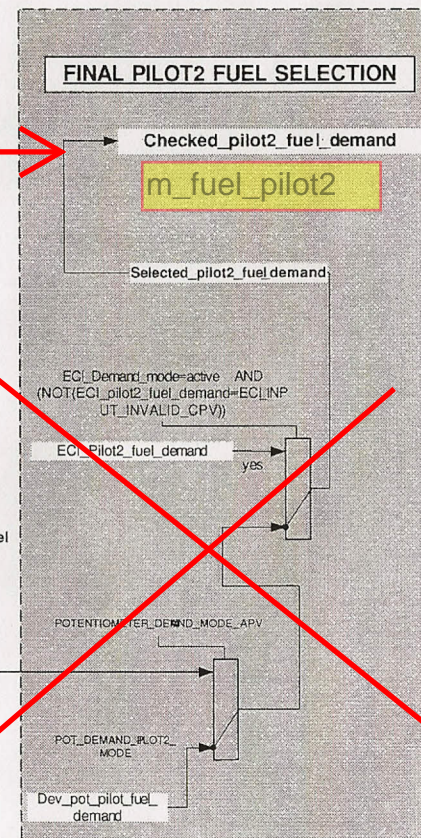
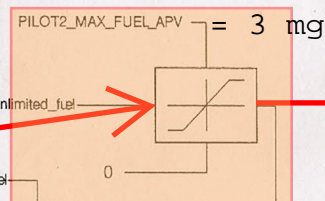
XS_pilot2_fuel_demand_map

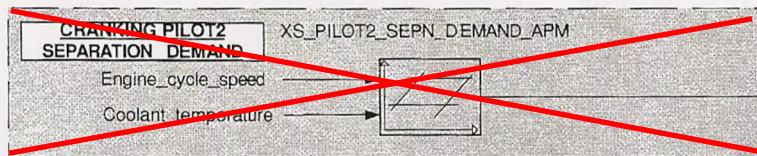
Pilot2_fuel_demand_map

Cranking

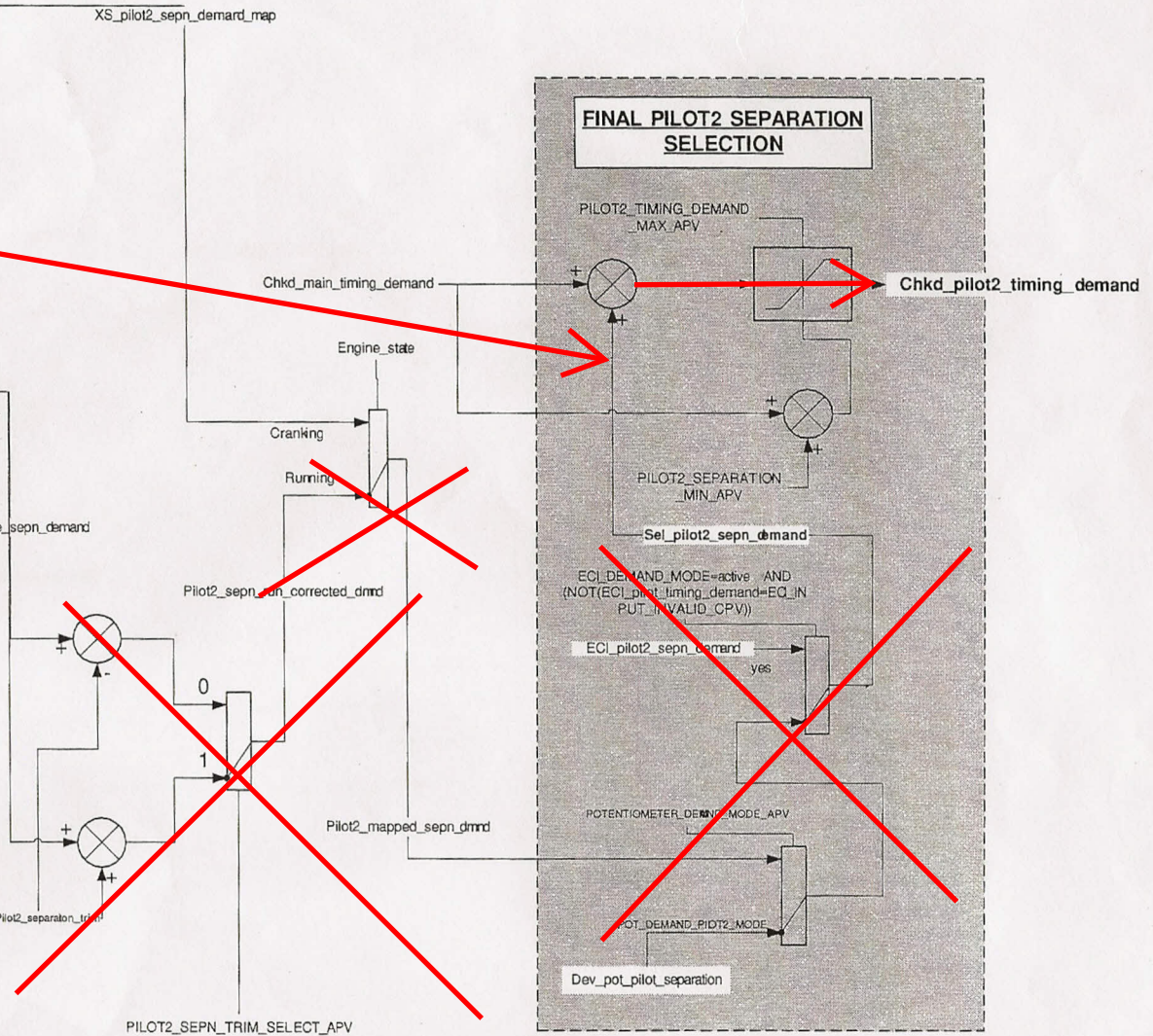
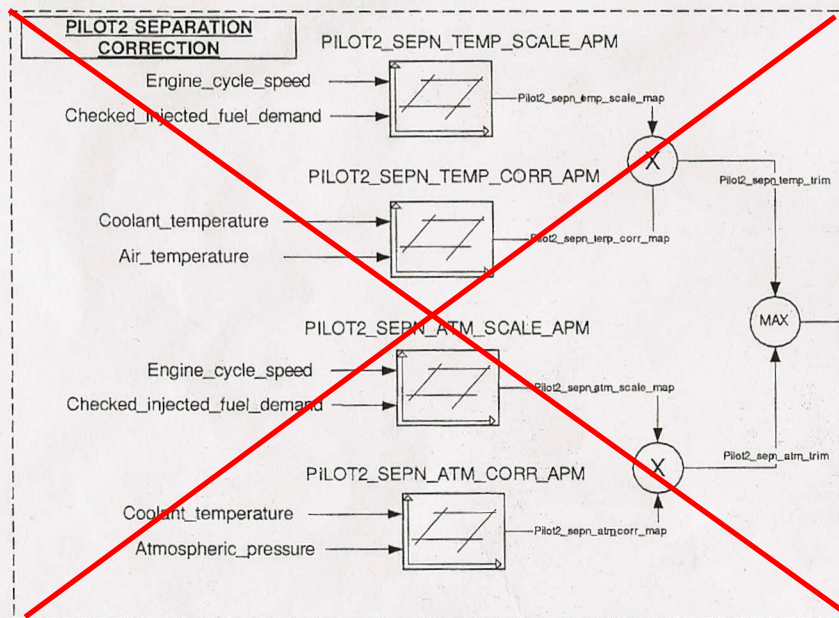
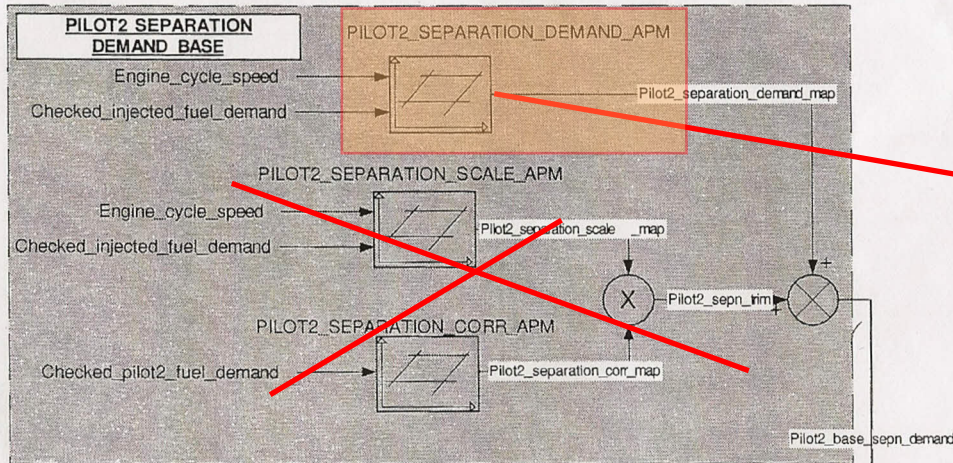
Pilot2_static_fuel

PILOT2_FUEL_TRIM_SELECT_APM

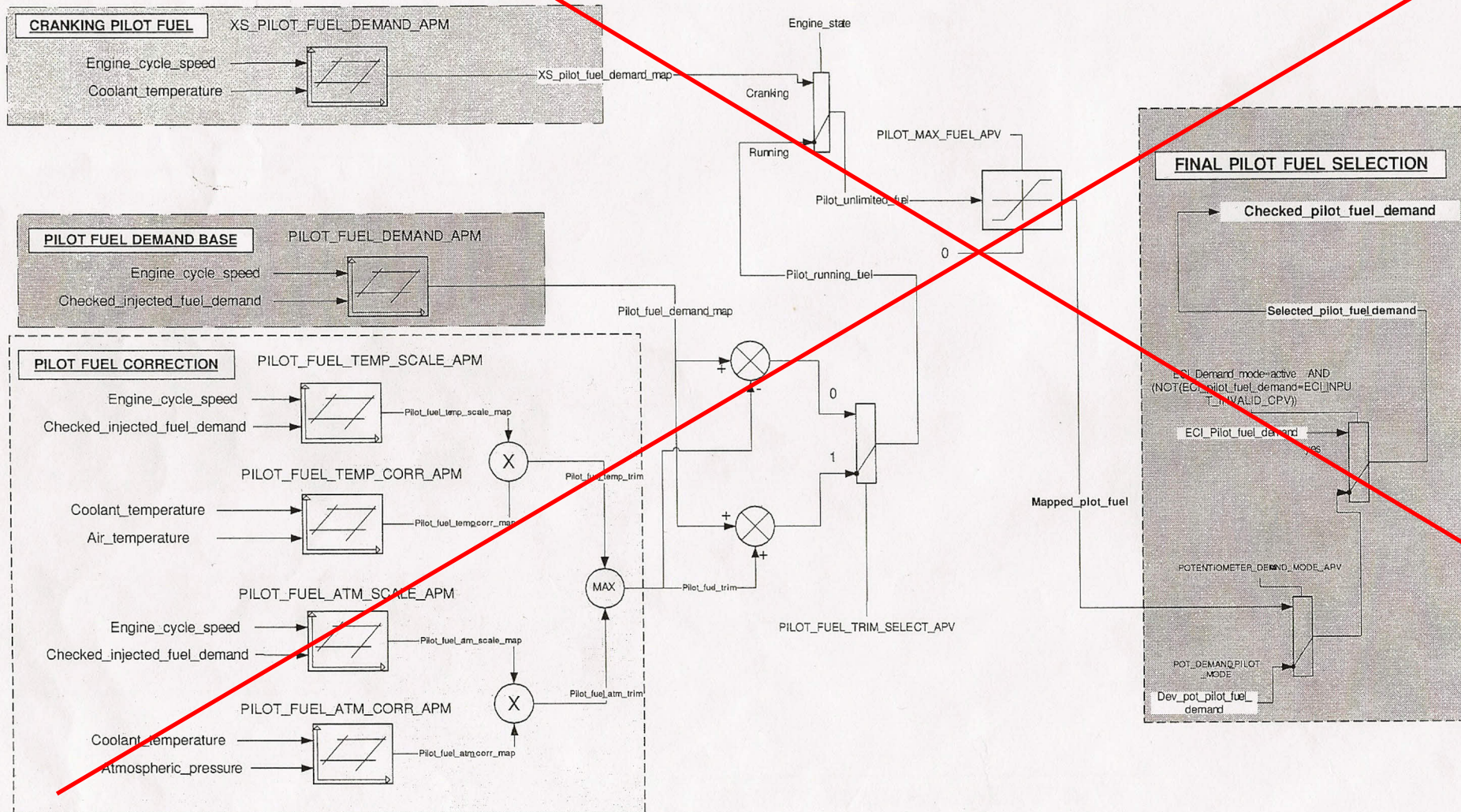




PILOT2 TIMING CALCULATION



PILOT FUEL CALCULATION

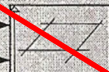


PILOT TIMING DEMAND CALCULATION

CRANKING PILOT TIMING

XS_PILOT_TIMING_DEMAND_APM

Engine_cycle_speed
Coolant_temperature

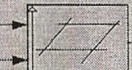


XS_pilot_timing_demand_map

PILOT TIMING DEMAND BASE

PILOT_TIMING_DEMAND_APM

Engine_cycle_speed
Checked_injected_fuel_demand

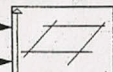


Pilot_timing_demandmap

PILOT TIMING CORRECTION

PILOT_TIMING_TEMP_SCALE_APM

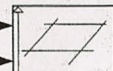
Engine_cycle_speed
Checked_injected_fuel_demand



Pilot_timing_temp_scale_map

PILOT_TIMING_TEMP_CORR_APM

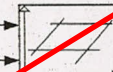
Coolant_temperature
Air_temperature



Pilot_timing_temp_corr_map

PILOT_TIMING_ATM_SCALE_APM

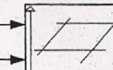
Engine_cycle_speed
Checked_injected_fuel_demand



Pilot_timing_atm_scale_map

PILOT_TIMING_ATM_CORR_APM

Coolant_temperature
Atmospheric_pressure



Pilot_timing_atm_corr_map

X

Pilot_timing_temp_trim

MAX

Pilot_TIMING_atm_trim

X

PILOT_TIMING_TRIM_SELECT_APV

Engine_state

Cracking

Running

Pilot_running_timing

FINAL PILOT TIMING SELECTION

PILOT_TIMING_DEMAND_MAX_APV

Chkd_pilot_timing_demand

Chkd_pilot2_timing_demand

Sel_pilot_timing_demand

ECI_Demand_mode=active AND
(NOT(ECI_pilot_timing_demand=EQ_IN
PUT_INVALID_CPV))

ECI_pilot_timing_demand

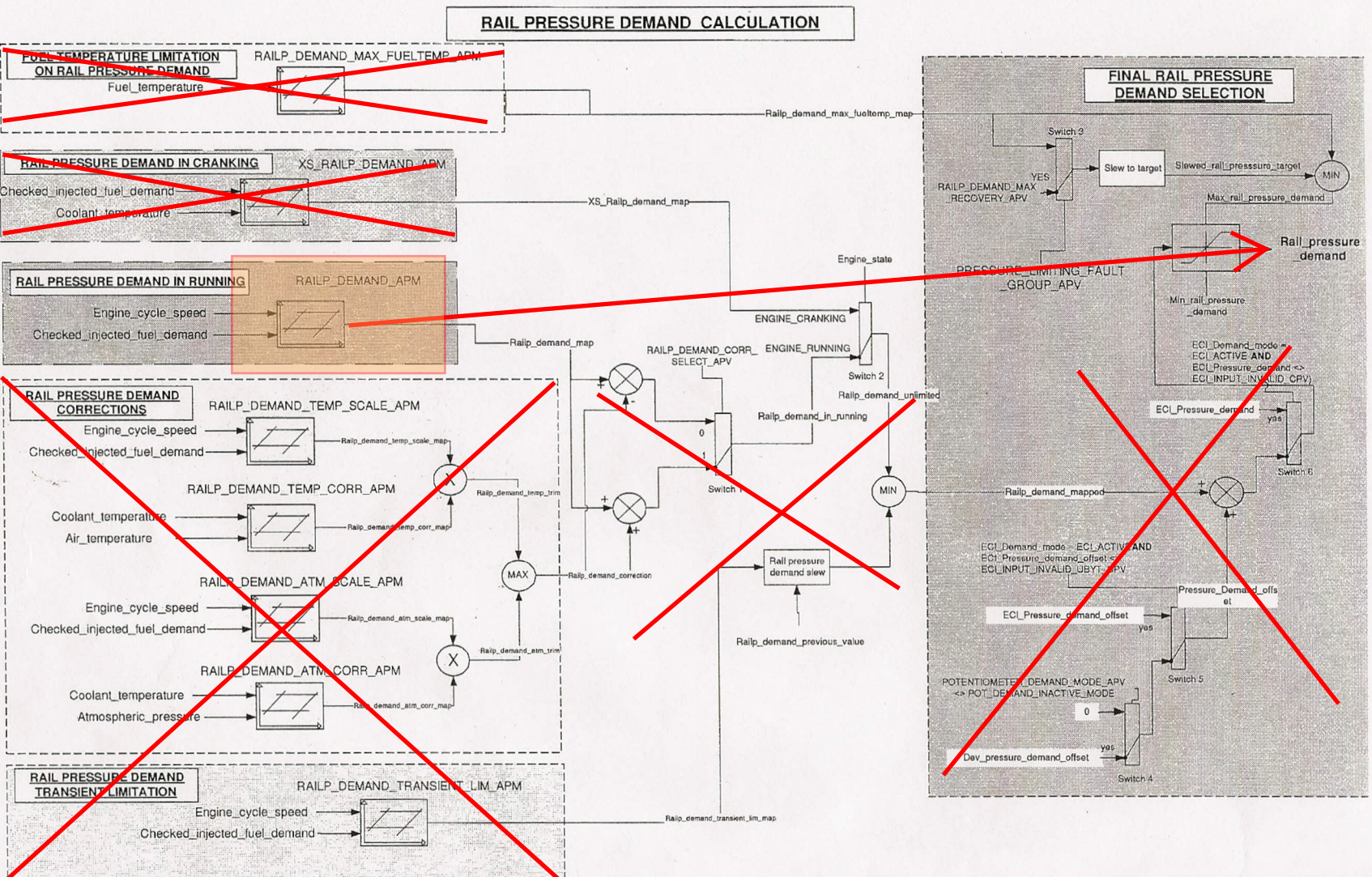
yes

POTENTIOMETER_DEMAND_MODE_APV

Pilot_unlimited_timing

POT_DEMAND_PILOT_MODE

Dev_pot_pilot_separation



DELPHI confidential

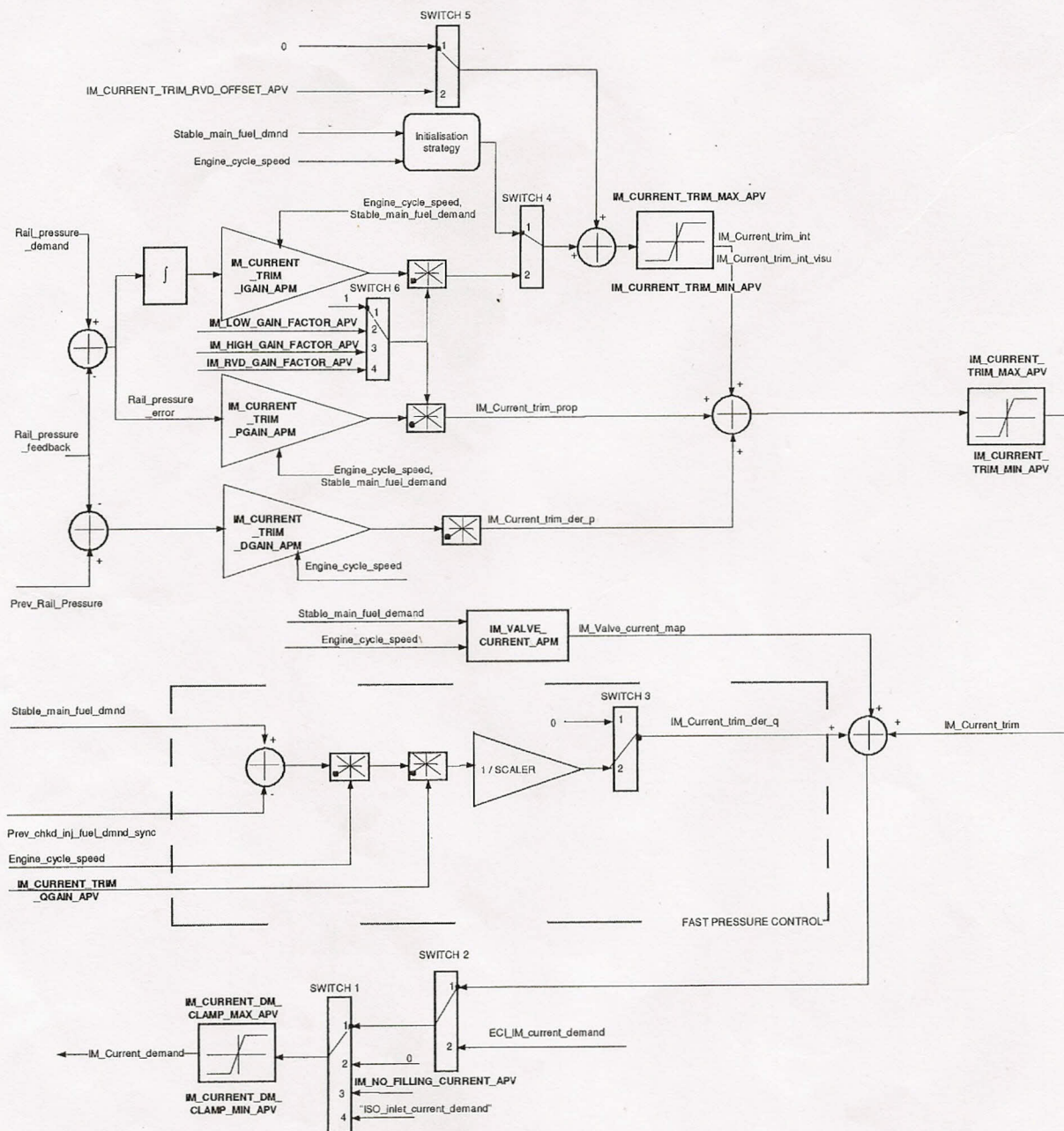
DELPHI DIESEL SYSTEMS

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LUCAS
Diesel systems
Direction Technique

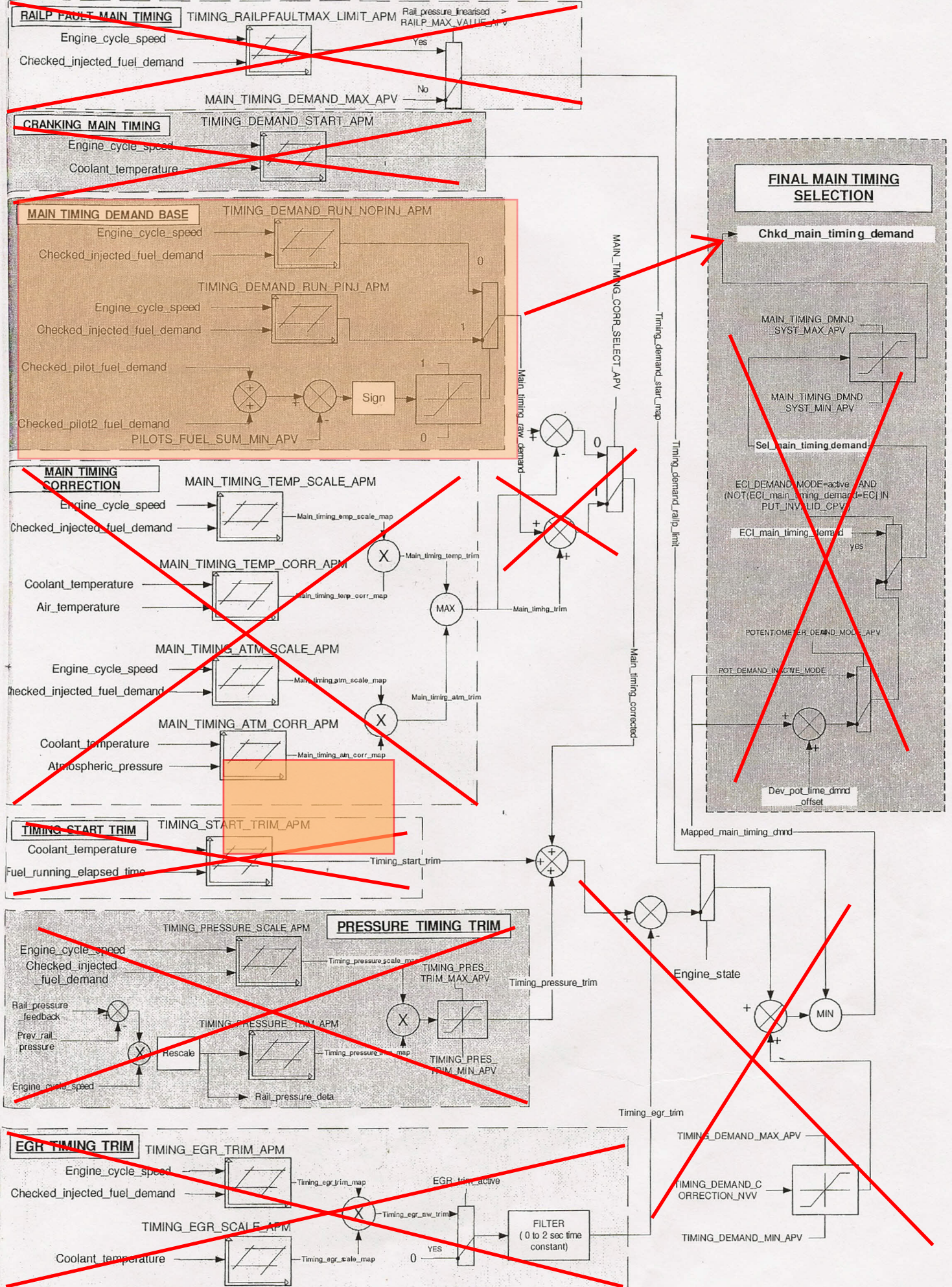
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DATE: 24/01/00
PAGE: 20/41

3.2.2.2. Flow chart



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MAIN TIMING CALCULATION



MAX FUEL CALCULATION

