

Command the PIDs ON.

For Fiesta,

Check for fan operation.

Command the LFC PID OFF.

Check for fan operation.

Do the fans operate when commanded ON?

Yes	No
The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector.	INSTALL a new Cooling Fan motor in question. Clear the PCM DTCs. REPEAT the self-test.

KF23 CHECK FOR CORRECT PCM OPERATION

Disconnect all the PCM connectors.

Visually inspect for:

pushed out pins

corrosion

Connect all the PCM connectors and make sure they seat correctly.

Carry out the PCM self-test.

Verify the concern is still present.

Is the concern still present?

Yes	No
INSTALL a new PCM. REFER to FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ ONLY MEMORY (EEPROM) , Programming the VID Block for a Replacement PCM.	The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector.

PINPOINT TEST KN: VARIABLE SPEED ELECTRIC COOLING FAN MOTOR > INTRODUCTION

This pinpoint test is intended to diagnose the following:

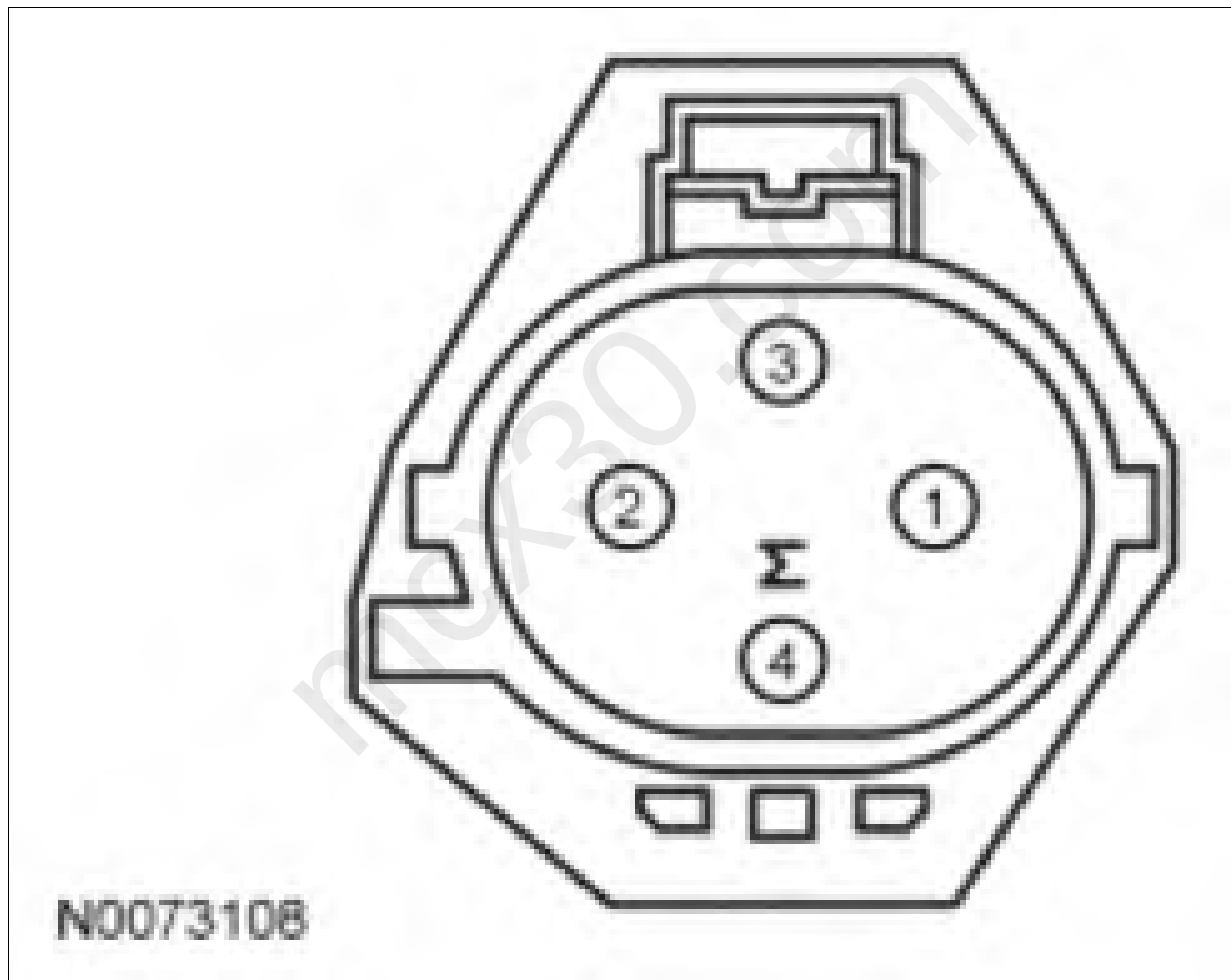
- cooling fan (CF) module (8B658)
- cooling fan assembly (8C607)
- harness circuits: FCV, FANPWR and GND

- powertrain control module (PCM) (12A650)

FCV DUTY CYCLE OUTPUT FROM PCM DESCRIPTION (NEGATIVE DUTY CYCLE)

FCV Duty Cycle Command (Negative Duty Cycle)	Cooling Fan Response And Speed
Less Than 10%	Fan OFF, Controller Inactive
10% - 90%	Linear Speed Increase
Greater Than 90% But Less Than 95%	100%
Greater Than 95% But Less Than 100%	Fan OFF

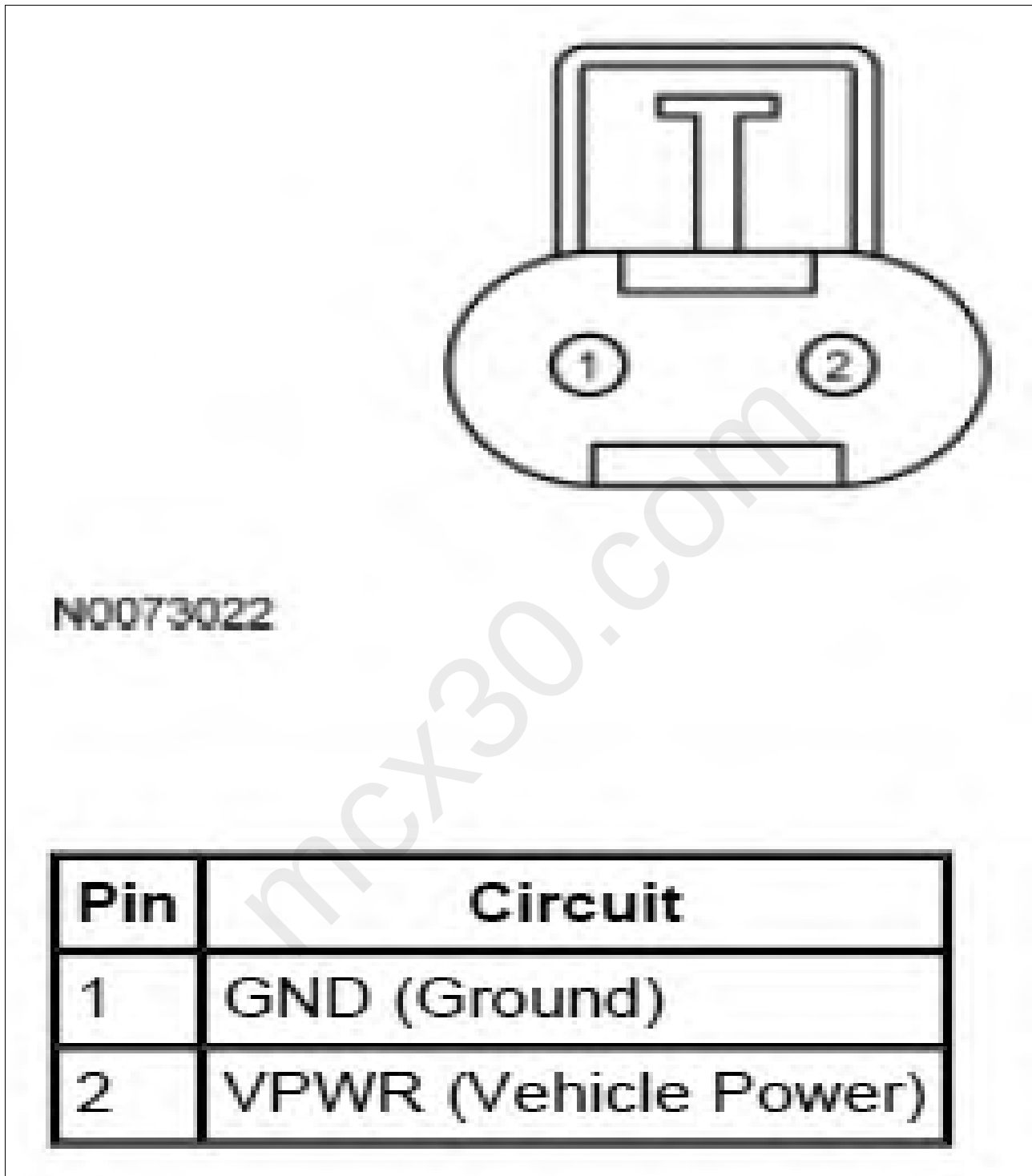
Fig 1: Identifying Cooling Fan (CF) Module Connector



Courtesy of FORD MOTOR CO.

Pin	Circuit
4	FCV (Fan Control Variable)
2	GND (Ground)

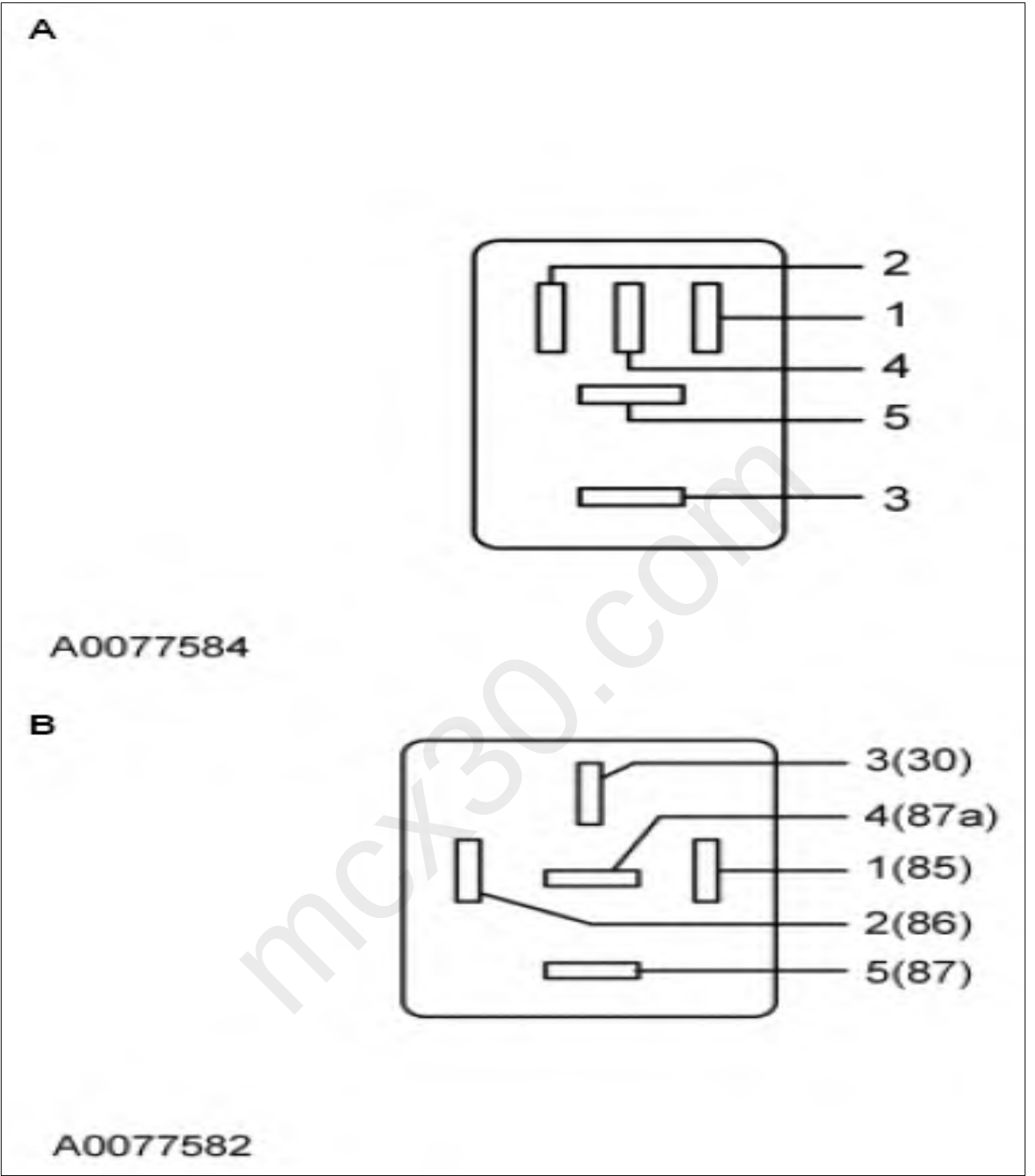
Fig 2: Identifying Cooling Fan (CF) Motor Connector



Courtesy of FORD MOTOR CO.

Pin	Circuit
1	GND (Ground)
2	FANPWR (Fan Power)

Fig 3: Identifying Fan Control (FC) Relay Connector



Courtesy of FORD MOTOR CO.

Vehicle	Connector	Pin	Circuit
Fiesta	A	5 2 1 3	FANPWR GND VPWR B+