

MERITOR WABCO

Anti-Lock Braking System (ABS) for Trucks, Tractors and Buses

**Maintenance Manual 30
Revised 04-01**

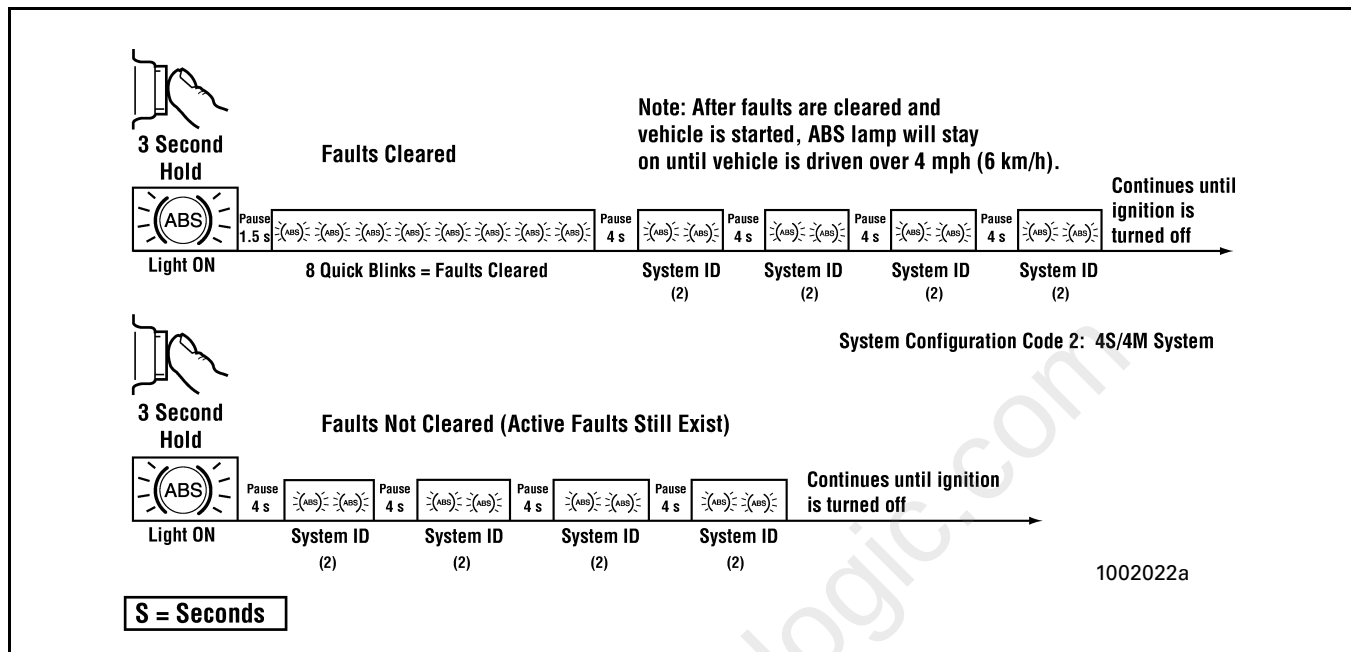
- For D Version ECUs

 Asbestos and Non-Asbestos Fibers Warnings	1
Section 1: Introduction	
Contents	3
How ABS Works	
ECU Identification	
ABS Configuration	4
ABS Indicator Lamp	5
ABS Modulator Valves	
Valve Arrangement Option	
ABS Valve Packages	6
ABS Sensors	7
Automatic Traction Control	
Off-Road ABS	
System Components	8
Section 2: Automatic Traction Control (ATC)	
ATC	11
Deep Snow and Mud Switch	
ATC Components	
Section 3: Troubleshooting & Testing	
General Maintenance Information	13
System Diagnostics	
TOOLBOX Software	
Blink Code Diagnostics	15
Diagnostic Mode	
Clear Mode	
Blink Code Diagnostics	16
Working with Blink Codes	18
Blink Code Troubleshooting and Repair	20
J1922 or J1939 Datalink Verification	21
Component Tests and Functions	22
TOOLBOX Software	
MPSI Pro-Link 9000	24
Component Tests	
Diagnostic and Testing Procedure	
Pro-Link Screens	25
Using the Pro-Link	
Tire Size Range	28
Testing Components	
Voltage Check	
Location of Sensors	
Sensor Adjustment	29
Sensor Output Voltage Test	
Sensor Resistance	
Dynamometer Testing Vehicles with ATC	
Valve Tests	30
ABS Modulator Valve	
ATC Valve	

Section 3 Troubleshooting & Testing

MERITOR WABCO

Blink Codes Illustrated (Continued)



Working with Blink Codes

Blink Code Conditions

When using blink code diagnostics, the following conditions could occur:

Blink Code Conditions		
Condition	Reason	Action
ABS indicator lamp does not come on at ignition.	Loose or burned-out bulb.	Check bulb. Check connections. Make necessary repairs.
	Voltage not within acceptable range (9.5-14 volts for a 12-volt system, 18-30 volts for a 24-volt system).	Check connections. Measure voltage. Make necessary repairs.
Can't use blink code diagnostics; ABS indicator lamp will not go off when blink code is activated.	Switch not held for proper length of time: 1 Second — Diagnostics Mode 3 Seconds — Clear All Mode	Repeat procedure, hold switch for proper length of time.
	Improper or faulty wiring.	Inspect and repair wiring.
Eight Flashes not received after blink code switch pressed for at least three seconds, then released.	Active Faults still exist.	Identify active faults, then make necessary repairs. Turn ignition OFF, then repeat Blink Code Diagnostics.

Press ENTER to display stored faults.

Pro-Link displays number, blink code, number of occurrences, and written description of stored faults.

1 of 1	(2, 3)	2X
R REAR ABS VALVE		
OPEN OR CABLE DAMAGE		
↑		↓

Press FUNC. The following screen will appear:

CLEAR ALL
STORED FAULT(S)
CLEAR Y ← → [N]

Use arrow key to move to Y (yes) to clear all stored faults at once.

CLEARING
STORED FAULT(S)

When faults are cleared, Pro-Link screen will prompt you to continue.

STORED FAULT(S)
CLEARED
[ENTER] TO CONTINUE

Press ENTER to return to ABS/ATC menu.

Component Test Screens

These screens help you test ABS components. Select this function from the Tractor ABS/ATC menu.

TRACTOR COMP TESTS
— SELECTIONS —
↑ VEHICLE VOLTAGES ↓

ABS VALVES
ATC
ABS INDICATOR LAMP
ATC INDICATOR LAMP
ABS/ATC SWITCHES
SENSORS
ENGINE DATALINK
RETARDER RELAY
RETARDER DATALINK

Select the appropriate function. Each screen has instructions to guide you through the test. Refer to the Pro-Link Manual for complete instructions.

System Information

With some ECUs, the Pro-Link will display system information — components or options supported by the ECU. Access these screens through System Setup (main ABS menu).

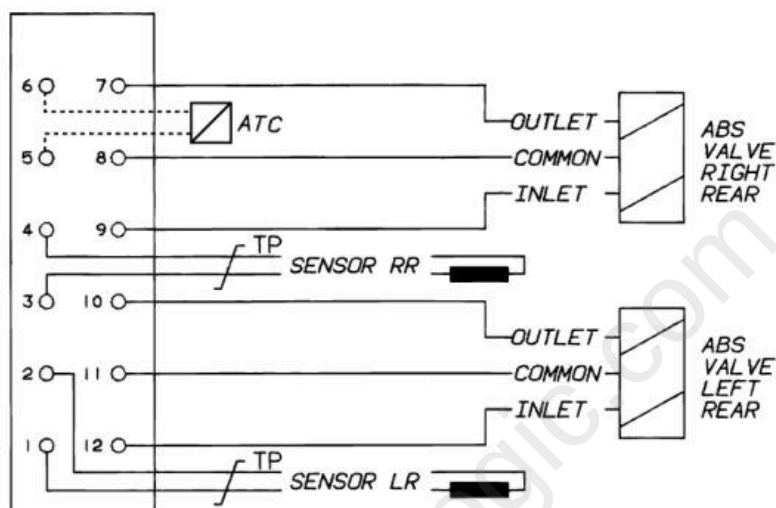
The following screens illustrate:

- A 4S/4M ABS/ATC system
- Where the ECU has not recognized a retarder relay
- Where the ECU has recognized a J1922 or J1939 datalink
- The ECU is capable of supporting ABS and ATC switches (these may not be installed on the vehicle)

TRACTOR ABS/ATC	
SYSTEM INFORMATION	
SENSORS	4
MODULATORS	4

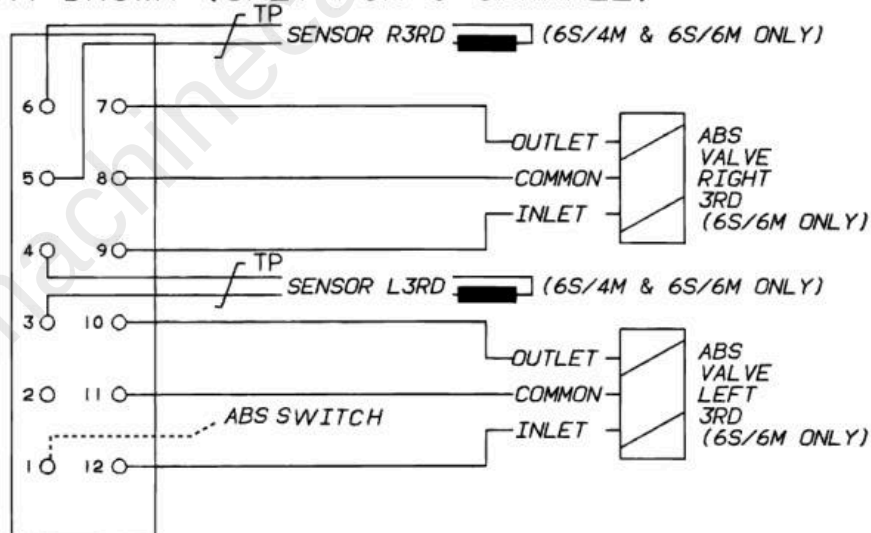
ATC VALVE	YES
RETARDER RELAY	NO
J1922	YES
J1939	NO
DIFF LOCK	NO
ABS SWITCH	YES
ATC SWITCH	YES

NOTE: Yes indicates the ECU is capable of supporting these options. These may or may not be installed on the vehicle.



X3-GREEN

X4-BROWN (ONLY FOR 6 CHANNEL)



- 1) ----- OPTIONAL EQUIPMENT
- 2) TP = TWISTED PAIR

1002053b

Full Version Available

Wabco Truck ABS D Version ECU Service Manual

Wabco Truck ABS D Version ECU component service manual with blink code diagnostics, tests, repair and reconfiguration steps. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/wabco-truck-abs-d-version-ecu-service-manual/>

Book No: MM30 · File Pages: 54 · File Count: 1 · File Language: English