

# WIPER/WASHER SYSTEM

## Article Text

1992 Mitsubishi Mirage

For a a a a

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Monday, April 01, 2002 10:00AM

### ARTICLE BEGINNING

1992 ACCESSORIES & SAFETY EQUIPMENT

Chrysler Motors/Eagle/Mitsubishi Wiper/Washer System

Dodge; Colt, Colt 200, Ram-50, Stealth

Eagle; Summit, Summit Wagon

Mitsubishi; Diamante, Eclipse, Expo/Expo LRV, Galant,

Mirage, Montero, Pickup, Precis, 3000Gt

Plymouth; Colt, Colt 200, Colt Vista

### DESCRIPTION & OPERATION

All models are equipped with a 2-speed wiper motor with an optional intermittent wiper feature. Some models are equipped with a rear wiper/washer.

Galant is equipped with a wiper system that varies the intermittent setting speed with vehicle speed. The system uses the ignition switch, wiper switch, intermittent switch, washer switch, vehicle speed sensor, and the Electronic Time and Alarm Control System (ETACS) control unit. The ETACS control unit is located behind left side of dash.

### ADJUSTMENTS

#### FRONT WIPER ARM ADJUSTMENT

NOTE: On Colt, Colt 200 and Summit, front wiper arm position is preset at factory. Before removing arm, mark arm position to motor crank for installation reference.

Except Colt, Colt 200 & Summit

Ensure wiper motor is in park position. Position wiper arm and blade assembly so tip of blade is specified distance above front window trim. See FRONT WIPER ADJUSTMENT SPECIFICATIONS table.

#### FRONT WIPER ADJUSTMENT SPECIFICATIONS TABLE

Model	Driver's Side: In. (mm)	Passenger's Side: In. (mm)
Colt Vista	.98-1.38 (25-35)	1.37-1.77 (35-45)
Diamante		
2-Speed	.79-1.18 (20-30)	.79-1.18 (20-30)
Intermittent	.91-1.30 (23-33)	.91-1.30 (23-33)
Eclipse	1.0 (25)	1.0 (25)
Expo/Expo LRV	.98-1.38 (25-35)	1.37-1.77 (35-45)
Galant & Mirage	N/A	N/A
Montero	.98-1.38 (25-35)	1.38-1.77 (35-45)
Pickup & Ram-50	.56-.98 (15-20)	.56-.98 (15-20)
Precis	1.2 (30)	1.2 (30)
Stealth & 3000GT	.6-.8 (15-20)	.6-.8 (15-20)

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Summit Wagon ..... .98-1.38 (25-35) ..... 1.37-1.77 (35-45)

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### REAR WIPER ARM ADJUSTMENT

NOTE: Diamante, Galant, Pickup and Ram-50 are not equipped with rear wipers.

Ensure wiper motor is in park position. Position wiper arm and blade assembly so tip of blade is specified distance from edge of window. See the REAR WIPER ADJUSTMENT SPECIFICATIONS table.

### REAR WIPER ADJUSTMENT SPECIFICATIONS TABLE

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Model	In. (mm)
Colt, Colt 200, Mirage & Summit .....	(1) *
Colt Vista .....	.78-1.18 (20-30)
Eclipse .....	1.2 (30)
Expo/Expo LRV .....	.78-1.18 (20-30)
Montero .....	2.56-2.95 (65-75)
Precis .....	(1) *
Stealth & 3000GT .....	(2) *
Summit Wagon .....	.78-1.18 (20-30)

(1) - Information is not available from manufacturer.

(2) - Position blade tip along ceramic edge of window.

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### TROUBLE SHOOTING

#### SPEED SENSITIVE WIPER SYSTEM

Galant (With ETACS)

Use charts to trouble shoot speed sensitive wiper/washer system. See Figs. 1, 2 and 3.

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Problem	Probable cause (s)	Checking procedure	Remedy
The wipers don't operate when the wiper switch is set to the "AUTO" position. (The wipers do operate, however, when the wiper switch is set to the "1" (low speed) position.)	Damage or disconnection of the wiring of the wiper switch (AUTO) input circuit.	If a malfunction is discovered as a result of checking inputs, check WIPER SWITCH AUTO INPUT CIRCUIT.	Repair the wiring harness, or replace the column switch.
	Damage or disconnection of the wiring of the wiper switch ("AUTO").		
	Damage or disconnection of the wiring of the ignition switch input circuit.	If a malfunction is discovered as a result of checking inputs, check IGNITION SWITCH INPUT CIRCUIT.	Repair the wiring harness.
	Damage or disconnection of the wiring of the wiper relay activation circuit.	If a malfunction is discovered as a result of checking inputs, check WIPER RELAY ACTIVATION CIRCUIT.	Repair the wiring harness, or replace the wiper relay.
	Malfunction of the wiper relay.		
Malfunction of the electronic control unit.	—	Replace the electronic control unit.	
The wipers don't stop when the wiper switch is switched OFF. (This problem occurs at the low speed of the wipers.) NOTE If the wipers continue operating (without stopping) at the "2" position (high speed) of the wiper switch, there is a short-circuit in the circuit at the wiper motor high-speed side.	Short-circuit in the wiper switch ("AUTO") input circuit.	If a malfunction is discovered as a result of checking inputs, check WIPER SWITCH AUTO INPUT CIRCUIT.	Repair the wiring harness, or replace the column switch.
	Short-circuit in the wiper switch ("AUTO").		
	Short-circuit in the wiper relay activation circuit.	Check WIPER RELAY ACTIVATION CIRCUIT.	Repair the wiring harness.
	Malfunction of the electronic control unit.	—	Replace the electronic control unit.
When the wiper switch is set to the "AUTO" position, the wipers operate continuously at low speed, not intermittent operation. (The wipers stop, however, when the wiper switch is set to "OFF".)	Short-circuit in the wiper switch ("AUTO") input circuit.	If a malfunction is discovered as a result of checking inputs, check WIPER SWITCH AUTO INPUT CIRCUIT.	Repair the wiring harness, or replace the column switch.
	Short-circuit in the wiper switch ("AUTO").		
	Malfunction of the electronic control unit.	—	Replace the electronic control unit.

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Fig. 1: Speed Sensitive Wiper/Washer Trouble Shooting Chart (1 Of 3 Galant W/ETACS)

Courtesy of Mitsubishi Motor Sales of America.

Problem	Probable cause (s)	Checking procedure	Remedy
The intermittent time does not change when the intermittent variable volume switch setting is changed. (The vehicle speed is a constant speed.)	Damage or disconnection of the wiring of the intermittent variable volume switch input circuit.	If a malfunction is discovered as a result of checking inputs, check INTERMITTENT SWITCH INPUT CIRCUIT.	Repair the wiring harness, or replace the column switch.
	Damage or disconnection of the wiring of the intermittent variable volume switch.		
	Malfunction of the electronic control unit.	—	Replace the electronic control unit.
The wipers' intermittent time does not change according to changes in the vehicle speed. (The intermittent variable volume switch setting is fixed.)	Damage or disconnection of the wiring of the vehicle-speed sensor input circuit, or a short-circuit.	If a malfunction is discovered as a result of checking inputs, check VEHICLE SPEED SENSOR INPUT CIRCUIT.	Repair the wiring harness, or replace the vehicle-speed sensor.
	Malfunction of the vehicle-speed sensor.		
	Malfunction of the electronic control unit.	—	Replace the electronic control unit.

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Fig. 2: Speed Sensitive Wiper/Washer Trouble Shooting Chart (2 Of 3 Galant W/ETACS)

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Problem	Probable cause (s)	Checking procedure	Remedy
The wipers do not function when the washer switch is switched ON for 0.6 second or longer. (With the wiper switch at the "AUTO" position, however, intermittent operation of the wipers is normal, and the washer function is normal.)	Damage or disconnection of the wiring of the washer switch input circuit.	If a malfunction is discovered as a result of checking inputs, check WASHER SWITCH INPUT CIRCUIT.	Repair the wiring harness, or replace the washer switch.
	Damage or disconnection of the wiring of the washer switch.		
	Malfunction of the electronic control unit.	—	Replace the electronic control unit.
The wipers do not function when the washer switch is switched ON for less than 0.6 second. (The wipers and washer do function, however, when the washer switch is switched ON for 0.6 second or longer.)	Malfunction of the electronic control unit.	—	Replace the electronic control unit.

**NOTE**

The "ECU" (electronic control unit) indicates the ETACS control unit.

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Fig. 3: Speed Sensitive Wiper/Washer Trouble Shooting Chart (3 Of 3 Galant W/ETACS)

Courtesy of Mitsubishi Motor Sales of America.

### TESTING

#### SPEED SENSITIVE WIPER SYSTEM TEST

##### Input Check (Galant With ETACS)

- 1) Use Multi-Use Tester (MB991341) to ensure input signals from switches are being sent to ETACS control unit.
- 2) Connect tester to diagnostic connector, located on left side kick panel, just right of fuse block. Turn ignition switch to ACC position.
- 3) Select appropriate test on tester. Tester should buzz once when each switch or sensor is activated. If buzzer sounds, switch or sensor signal is being sent to control unit.
- 4) If buzzer does not sound, a problem exists in that switch, sensor or wiring. Circuit(s) must be checked. See Figs. 4-10. When checking vehicle speed sensor input, jack up front of vehicle and rotate tires in forward direction.

##### Power Supply & Ground Circuits

- 1) Check for battery voltage at terminal No. 36 at ETACS control unit harness connector. The battery supplies voltage to 5-volt power supply in control unit at all times. If necessary, repair power supply circuit. See Figs. 4-8.
- 2) Disconnect ETACS control unit. Check continuity between

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control unit harness connector terminal No. 29 and ground, and between terminal No. 30 and ground. Continuity to ground should exist at both terminals at all times. If necessary, repair ground circuit(s).

#### Ignition Switch Input Circuit

1) Disconnect ETACS control unit. With ignition switch in ACC (accessory) position, check for battery voltage at control unit harness connector terminal No. 7. See Figs. 4-8.

2) With ignition switch in OFF position, no voltage should be present at terminal No. 7. If voltage is not as indicated, check circuit and/or ignition switch. To check ignition switch, See appropriate STEERING COLUMN SWITCHES article in the ACCESSORIES/SAFETY EQUIPMENT Section.

#### Wiper Switch AUTO Input Circuit

1) Disconnect ETACS control unit. With wiper switch in OFF position, check continuity between control unit harness connector terminal No. 10 and ground. See Figs. 4-8. No continuity should exist.

2) With wiper switch in AUTO position, check continuity between control unit harness connector terminal No. 10 and ground. Continuity should exist. If continuity is not as indicated, check circuit and/or wiper switch. To check wiper switch, See appropriate STEERING COLUMN SWITCHES article in the ACCESSORIES/SAFETY EQUIPMENT Section.

#### Intermittent Switch Input Circuit

1) Disconnect ETACS control unit. With intermittent (wiper) switch in FAST position, check resistance between control unit harness connector terminal No. 1 and ground. See Figs. 4-8. Resistance should be zero (0) ohms.

2) Rotate intermittent switch to SLOW position while measuring resistance at terminal No. 1. Resistance should gradually increase to 1000 ohms as switch position changes. If resistance is not as indicated, check circuit and/or intermittent switch. To check intermittent switch, See appropriate STEERING COLUMN SWITCHES article in the ACCESSORIES/SAFETY EQUIPMENT Section.

#### Vehicle Speed Sensor Input Circuit

Disconnect ETACS control unit. Jack up front of vehicle. Rotate tires in forward direction while measuring continuity between control unit harness connector terminal No. 4 and ground. See Figs. 4-8. Continuity should vary between continuity and NO continuity as tires rotate.

NOTE: Sensor sends 4 pulse signals, 0-8 volts for each rotation of transmission's output gear, to control unit terminal No. 4.

#### Wiper Relay Activation Circuit

1) With ignition switch and wiper switch in OFF position, check voltage between control unit harness connector terminal No. 27 and ground. See Fig. 9 and 10. No voltage should exist.

2) With ignition switch in ACC position and wiper switch in



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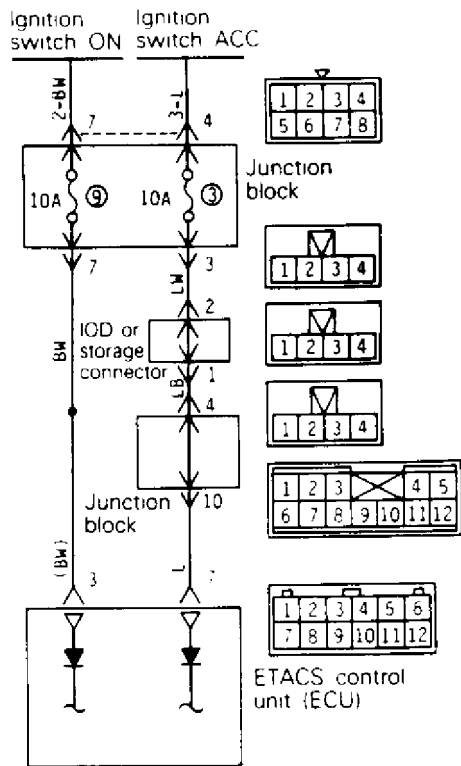
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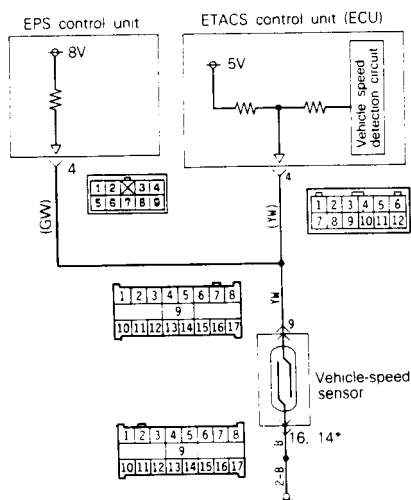
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IGNITION SWITCH CIRCUIT

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Fig. 5: Ignition Switch Circuit (Galant With ETACS)  
Courtesy of Mitsubishi Motor Sales of America



VEHICLE SPEED SENSOR CIRCUIT

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Fig. 6: Vehicle Speed Sensor Circuit (Galant With ETACS)  
Courtesy of Mitsubishi Motor Sales of America

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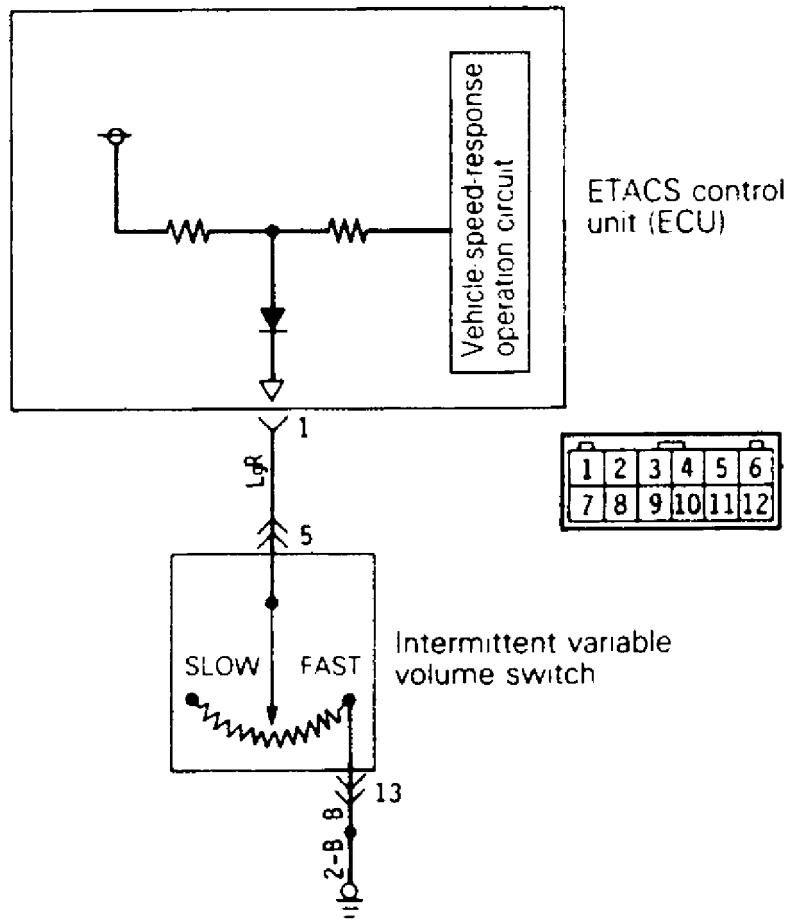
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## INTERMITTENT SWITCH CIRCUIT

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Fig. 7: Wiper Switch Circuit (Galant With ETACS)

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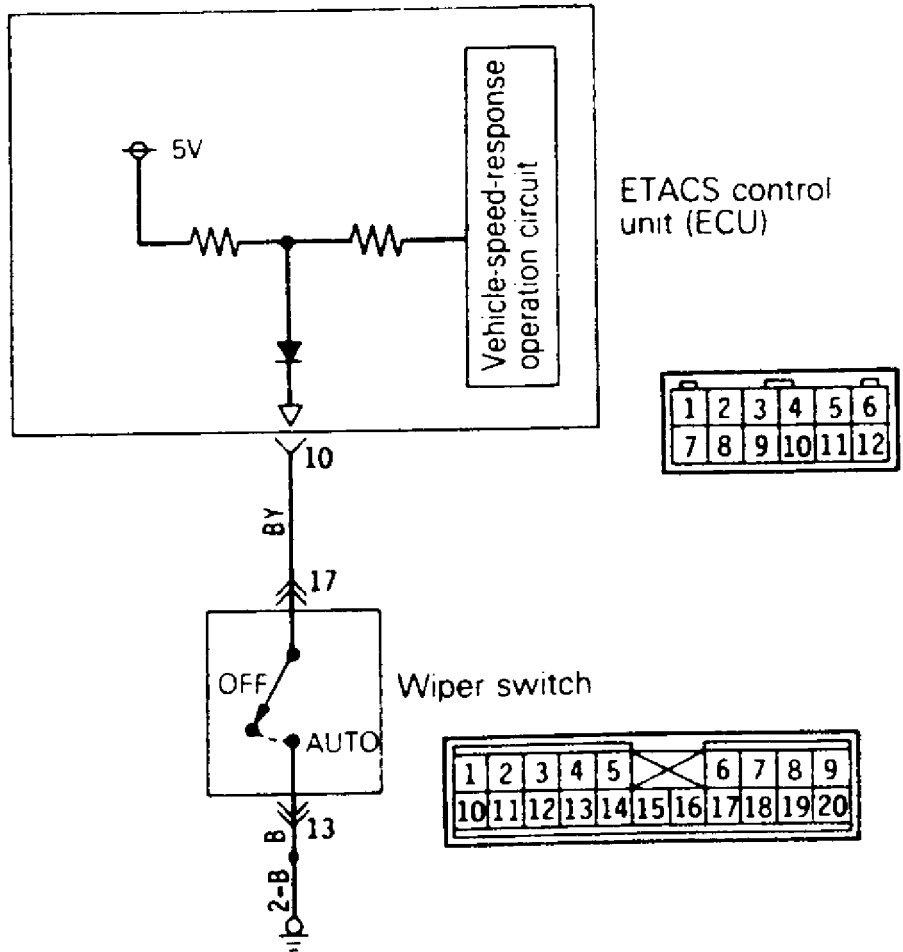
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## WIPER SWITCH CIRCUIT

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Fig. 8: Intermittent Switch Circuit (Galant With ETACS)

Courtesy of Mitsubishi Motor Sales of America

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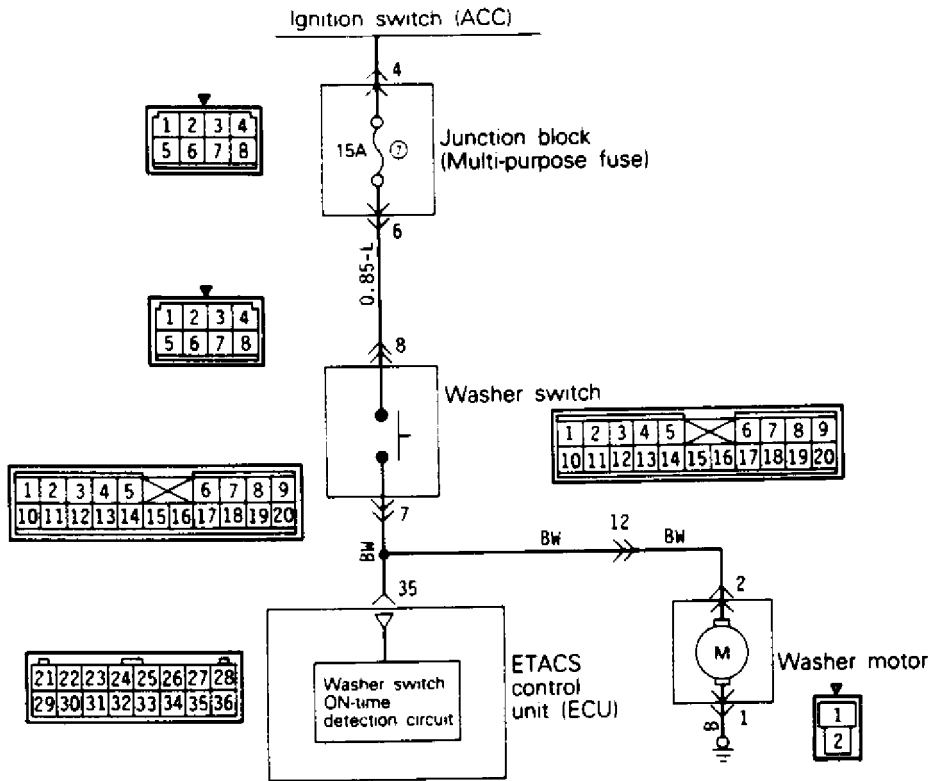
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## WASHER SWITCH CIRCUIT

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Fig. 9: Washer Switch Circuit (Galant With ETACS)  
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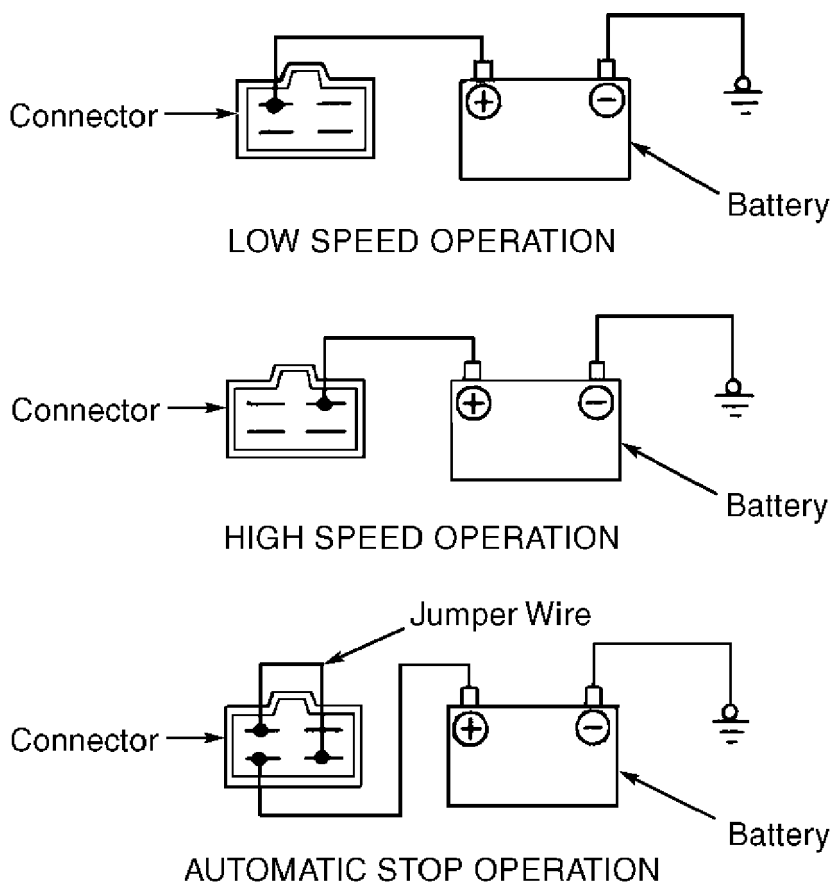
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Fig. 11: Checking Front Wiper Motor Operation (Except Pickup, Precis & Ram-50)

Courtesy of Mitsubishi Motor Sales of America.

### Checking Automatic Stop (Except Pickup, Precis & Ram-50)

1) Operate wiper motor at low speed. See Fig. 11. Disconnect battery voltage during operation to stop motor.

2) Using a jumper wire, connect terminals as shown. See Fig. 11. Connect 12 volts to indicated terminal, and ground wiper motor bracket. Ensure wiper arm is correctly parked.

### Checking Wiper Motor Operation (Pickup, Precis & Ram-50)

Disconnect wiring connector from wiper motor. Connect battery voltage to appropriate wiper motor terminal, and ground other terminal. See WIPER MOTOR OPERATION CHECK table. See Fig. 12 and 13. Ensure wiper motor operates in both low and high speeds.

#### WIPER MOTOR OPERATION CHECK TABLE

Model & Application	Ground Terminal No.	Apply Voltage To Terminal No.
Low Speed Operation		
Pickup & Ram-50	1	3

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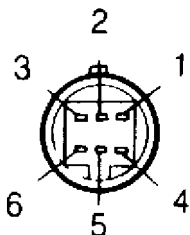
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Precis .....	5	.....	1
High Speed Operation			
Pickup & Ram-50 .....	2	.....	3
Precis .....	2	.....	1

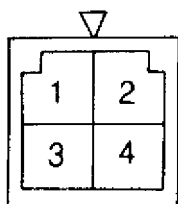
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**PRECIS**

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Fig. 12: Identifying Front Wiper Motor Terminals (Precis)  
 Courtesy of Mitsubishi Motor Sales of America.



**PICKUP & RAM-50**

93E02869

Fig. 13: Identifying Front Wiper Motor Terminals (Pickup & Ram-50)  
 Courtesy of Mitsubishi Motor Sales of America.

#### Checking Automatic Stop (Pickup, Precis & Ram-50)

1) Operate wiper motor at low speed. See CHECKING WIPER MOTOR OPERATION (PICKUP, PRECIS & RAM-50). Disconnect battery voltage to stop motor in any position except park.

2) Using a jumper wire, connect terminals indicated. See AUTOMATIC STOP CHECK table. See Fig. 12 and 13. Connect 12 volts to terminal indicated in table, and ground wiper motor bracket. Ensure motor parks wiper arm.

#### AUTOMATIC STOP CHECK TABLE

Vehicle/ Model	Jumper Wire Terminals No.	Apply Voltage To Terminal No.
Pickup & Ram-50 .....	1 & 4	..... 3
Precis .....	5 & 6	..... (1) 1

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(1) - Attach negative battery lead to terminal No. 3.

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### INTERMITTENT WIPER RELAY (FRONT) TEST

**NOTE:** On Colt, Colt 200, Eclipse, Mirage, Montero and Summit, intermittent wiper relay is incorporated into wiper switch. Information on testing not available from manufacturer. Information on Precis not available from manufacturer.

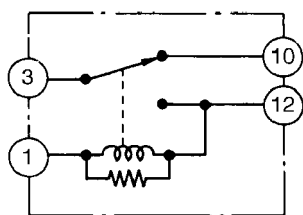
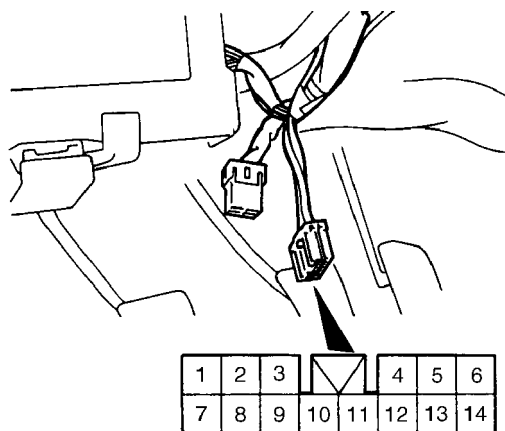
#### Continuity & Voltage Check (Diamante)

1) Disconnect column switch connector. Turn wiper switch to OFF or AUTO position. Ensure continuity is present between terminals No. 3 and 10, and 1 and 12. Ensure there is no continuity between terminals No. 3 and 12.

2) Connect battery voltage to relay terminal No. 12 and ground terminal No. 1. Battery voltage should be present on terminal No. 3. Replace relay if continuity and voltage are not present. See Fig. 14 and 15.

#### Voltage Check (Colt Vista, Expo/Expo LRV & Summit Wagon)

Disconnect column switch connector. Place wiper switch in intermittent position. Turn ignition switch to accessory position. Ensure alternating voltage (0-12 volts) is present at terminal No. 3 of column switch connector. See Fig. 14 and 15.



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Fig. 14: Front Wiper Relay Terminal ID (Diamante)  
Courtesy of Mitsubishi Motor Sales of America

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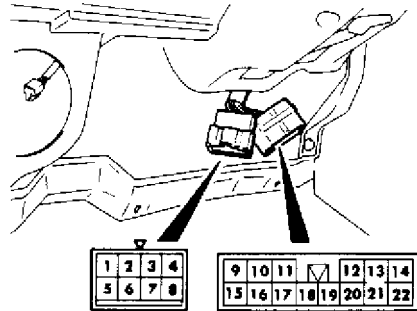
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EXPO, SUMMIT WAGON &  
VISTA WAGON

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Fig. 15: Front Wiper Relay Terminal ID (Colt Vista, Expo/Expo LRV & Summit Wagon)

Courtesy of Mitsubishi Motor Sales of America

#### Continuity Check (Galant With ETACS)

1) Remove relay located next to wiper motor. Ensure continuity is present between terminals No. 2 and 5 and between terminals No. 1 and 3. See Fig. 16.

2) Apply battery voltage to terminal No. 2, and ground terminal No. 5. Ensure continuity is present between terminals No. 3 and 6. Replace relay if continuity is not as specified.

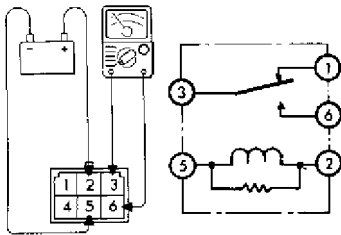


Fig. 16: Front Wiper Relay Terminal ID (Galant With ETACS)

Courtesy of Mitsubishi Motor Sales of America.

#### Voltage Check (Pickup & Ram-50)

Intermittent relay is located next to wiper motor. With relay installed, place wiper switch in intermittent position. Turn ignition switch to accessory position. Ensure alternating voltage (0-12 volts) is present at Blue wire terminal of intermittent relay connector.

#### Continuity & Voltage Check (Stealth & 3000GT)

1) Disconnect column switch connector. Ensure continuity is present between terminals No. 5 and 11, and between terminals No. 6 and 10. Ensure there is no continuity between terminals No. 6 and 11.

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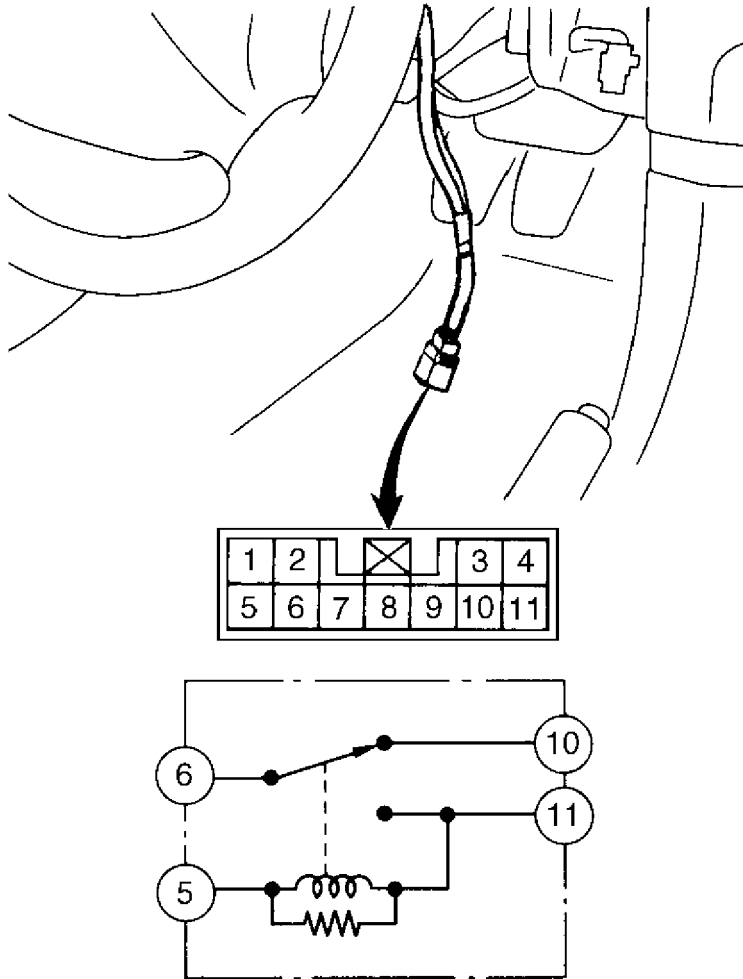
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2) Connect battery voltage to terminal No. 5 and ground terminal No. 11. Battery voltage should be present on terminal No. 6. Replace relay if continuity and voltage are not present. See Fig. 17.



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Fig. 17: Front Wiper Relay Terminal ID (Stealth & 3000GT)  
Courtesy of Mitsubishi Motor Sales of America.

### FRONT WIPER SWITCH TEST

**NOTE:** Front wiper switch is part of combination switch on steering column. See appropriate STEERING COLUMN SWITCHES article in the ACCESSORIES/SAFETY EQUIPMENT Section.

### REAR WIPER MOTOR TEST

**NOTE:** Information on Precis not available from manufacturer.

Operational Check (Except Diamante & Galant)

Disconnect wiring connector from wiper motor. Connect battery voltage to wiper motor connector as shown, and ensure motor housing is well grounded. Motor should run at low speed. See Figs. 18-24.

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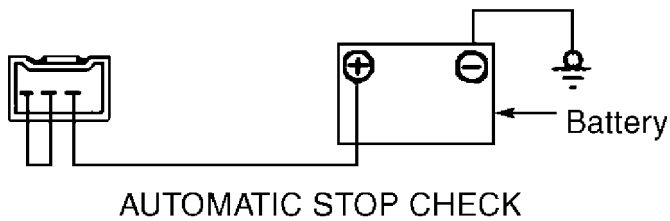
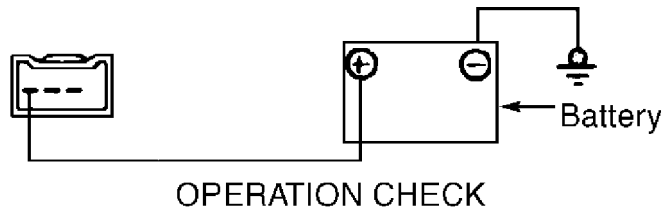
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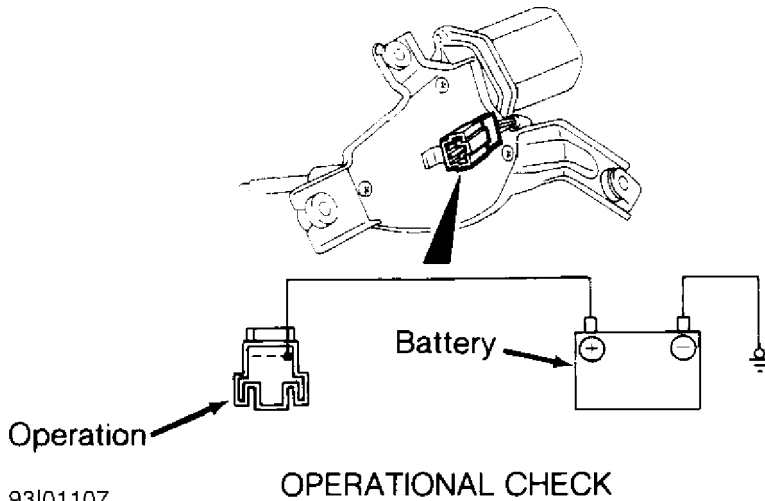
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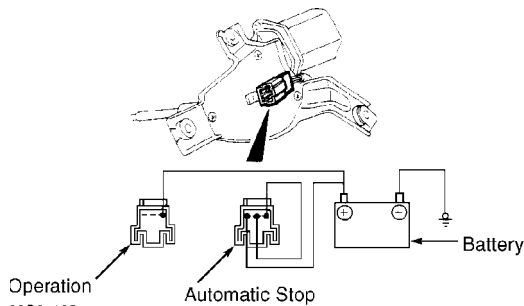
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Fig. 18: Checking Rear Wiper Motor Operation (Colt, Colt 200, Eclipse, Mirage & Summit)  
Courtesy of Chrysler Motors.



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Fig. 19: Rear Wiper Motor Operational Check (Colt Vista, Expo/Expo LRV & Summit Wagon)  
Courtesy of Chrysler Motors.



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Fig. 20: Rear Wiper Motor Automatic Stop Check (Colt Vista, Expo/Expo LRV & Summit Wagon)  
Courtesy of Chrysler Motors.

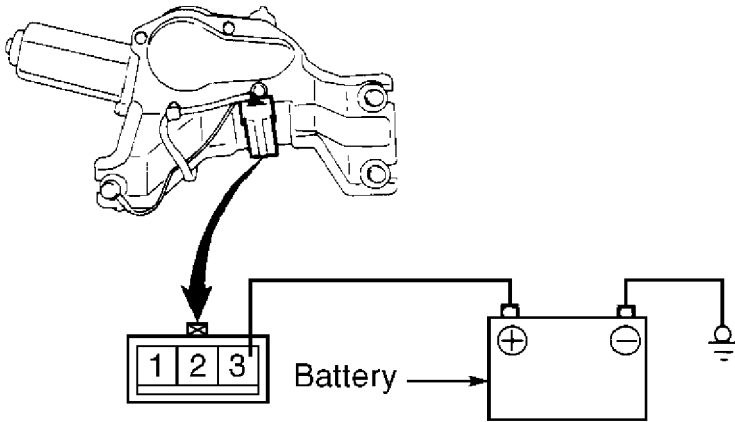
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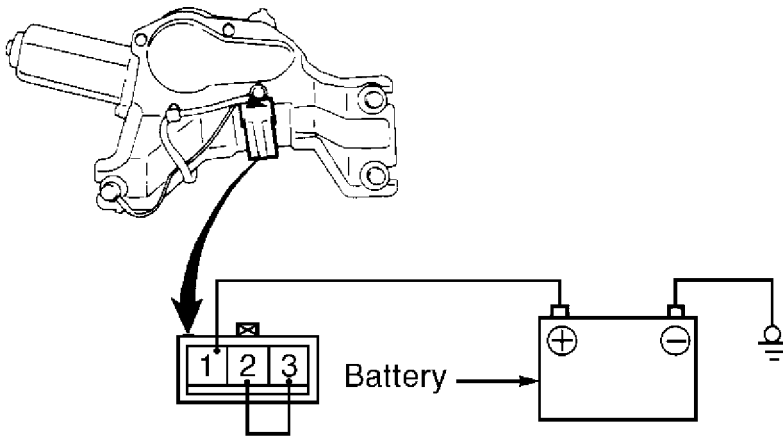
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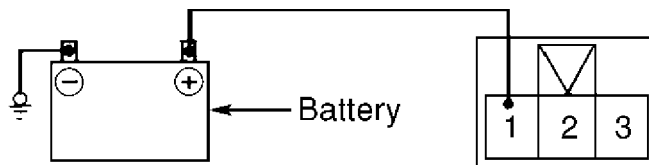
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Fig. 21: Rear Wiper Motor Operational Check (Montero)  
Courtesy of Chrysler Motors.



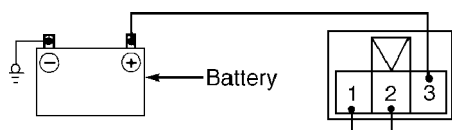
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Fig. 22: Rear Wiper Motor Automatic Stop Check (Montero)  
Courtesy of Chrysler Motors.



93C01109

Fig. 23: Rear Wiper Motor Operational Check (Stealth & 3000GT)  
Courtesy of Chrysler Motors.



93A01127

Fig. 24: Rear Wiper Motor Automatic Stop Check (Stealth & 3000GT)  
Courtesy of Chrysler Motors.

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Automatic Stop Check (Except Diamante & Galant)

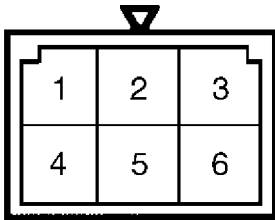
Operate wiper motor, and then disconnect wiring connector from wiper motor to stop motor operation at a point other than park position. Connect battery voltage and jumper wire to wiper motor connector as shown, and ensure motor housing is well grounded. See Figs. 18-24. Motor should return to park position.

### REAR WIPER RELAY TEST

NOTE: Information on Mirage and Precis not available from manufacturer.

Operational Check (Eclipse, Stealth & 3000GT)

Remove quarter trim. Leave intermittent relay connected to wiring harness. Operate rear wiper and check voltage at terminal No. 2. See Fig. 25. Zero volts should be present when rear wiper stops. There should be 12 volts when rear wiper operates.



92.100207

Fig. 25: Rear Wiper Relay Terminal ID  
Courtesy of Mitsubishi Motor Sales of America.

Operational Check (Colt Vista, Expo/Expo LRV & Summit Wagon)

1) Rear wiper relay is a part of wiper switch. With wiper switch connector installed on relay, turn ignition switch to accessory position. Turn wiper switch to intermittent position.

2) Check voltage between terminal No. 5 and ground. See Fig. 27 and 28. Voltage should alternate between 0-5 volts. Replace wiper switch if voltage does not alternate.

Operational Check (Montero)

1) Relay is on left side of steering column, behind dash. Disconnect relay from wiring harness. Connect positive voltmeter lead to terminal No. 2. Connect negative voltmeter lead to terminal No. 5. Connect battery voltage to terminal No. 4 and ground terminal No. 5. See Fig. 26.

2) Jumper terminals No. 1 and 4 for 2 seconds. Remove jumper. Jumper terminals No. 1 and 5 for about 8 seconds. Voltmeter should show zero volts. After terminals No. 1 and 5 have been connected for at least 8 seconds, battery voltage should be present on terminal No. 2. Replace relay if voltage is not as specified.

# WIPER/WASHER SYSTEM

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For a a a a

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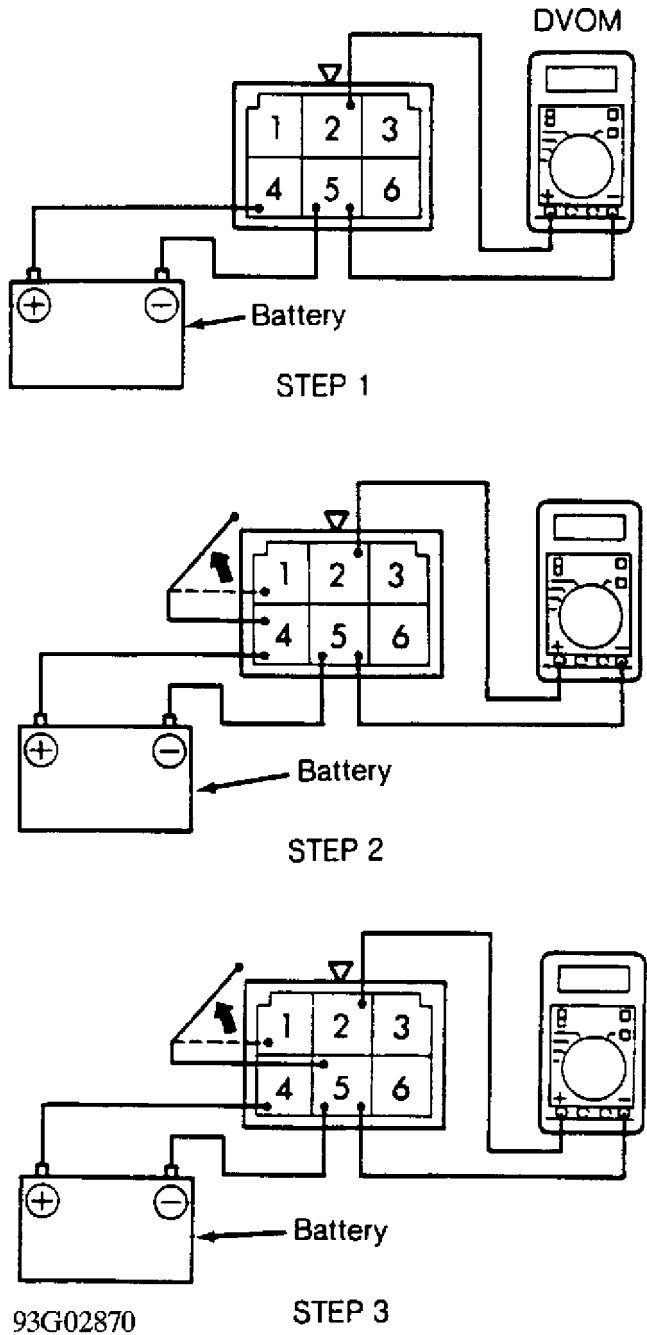


Fig. 26: Rear Wiper Relay Terminals  
Courtesy of Mitsubishi Motor Sales of America.

## REAR WIPER SWITCH TEST

NOTE: Testing information for Precis rear wiper switch not

## WIPER/WASHER SYSTEM

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For a a a a

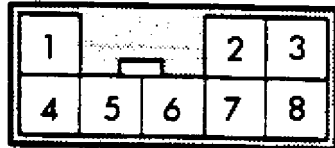
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available from manufacturer.

Colt, Colt 200, Mirage & Summit

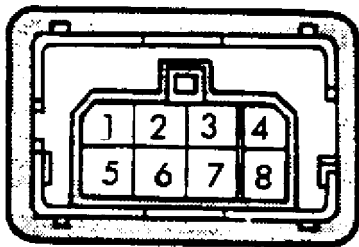
Remove wiper switch from instrument panel and disconnect wiper switch. Place wiper switch in OFF position. Continuity should exist between terminals No. 3 and 8. See Fig. 27 and 28. Place wiper switch in ON position. Continuity should exist between terminals No. 2 and 3. Depress washer switch. Continuity should exist between terminals No. 1 and 2. Continuity between terminals No. 5 and 6 should exist in all positions (light circuit).



COLT, COLT 200, ECLIPSE, EXPO,  
MIRAGE, STEALTH, SUMMIT,  
SUMMIT WAGON, VISTA WAGON &  
3000GT

93I02871

Fig. 27: Rear Wiper Switch Terminal ID (Except Montero)  
Courtesy of Mitsubishi Motor Sales of America.



MONTERO

93A02872

Fig. 28: Rear Wiper Switch Terminal ID (Montero)  
Courtesy of Mitsubishi Motor Sales of America.

Eclipse

1) Remove wiper switch from instrument panel and disconnect wiper switch. Place wiper switch in OFF position. Continuity should exist between terminals No. 4 and 5. See Fig. 27 and 28. Place wiper switch in ON position. Continuity should exist between terminals No. 5 and 6.

2) Place wiper switch in INT position. Continuity should exist between terminals No. 2 and 8, and between terminals No. 4 and 5. Depress washer switch. Continuity should exist between terminals No. 6 and 7. Continuity between terminals No. 1 and 3 should exist in

## WIPER/WASHER SYSTEM

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all positions (light circuit).

Colt Vista, Expo/Expo LRV & Summit Wagon

1) Remove wiper switch from instrument panel and disconnect wiper switch. Place wiper switch in OFF position. Continuity should exist between terminals No. 4 and 5. See Fig. 27 and 28. Place wiper switch in ON position. Continuity should exist between terminals No. 5 and 8.

2) Place wiper switch in INT position. Continuity should exist between terminals No. 4 and 5, and between terminals No. 1 and 8. Depress washer switch. Continuity should exist between terminals No. 7 and 8.

Montero

Remove wiper switch from instrument panel and disconnect wiper switch. Place wiper switch in OFF position. Continuity should exist between terminals No. 4 and 7. See Fig. 27 and 28. Place wiper switch in ON position. Continuity should exist between terminals No. 2 and 7. Place wiper switch in INT position. Continuity should exist between terminals No. 4 and 7, and between terminals No. 1 and 6. Depress washer switch. Continuity should exist between terminals No. 2 and 3.

Stealth & 3000GT

1) Remove wiper switch from instrument panel and disconnect wiper switch. Place wiper switch in OFF position. Continuity should exist between terminals No. 4 and 5. See Fig. 27 and 28. Place wiper switch in ON position. Continuity should exist between terminals No. 5 and 6.

2) Place wiper switch in INT position. Continuity should exist between terminals No. 4 and 5, and between terminals No. 7 and 8. Depress washer switch. Continuity should exist between terminals No. 2 and 6. Continuity between terminals No. 1 and 3 should exist in all positions (light circuit).

## REMOVAL & INSTALLATION

### FRONT WIPER MOTOR

Removal & Installation

Remove wiper motor bolts. Pull motor out just slightly. Disconnect wiper linkage from motor assembly and remove motor. To install, reverse removal procedure.

### FRONT WIPER SWITCH

NOTE: Front wiper switch is part of combination switch on steering column. See appropriate STEERING COLUMN SWITCHES article in the ACCESSORIES/SAFETY EQUIPMENT Section.

### REAR WIPER MOTOR

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#### Removal & Installation

Remove wiper blade and arm assembly. Remove tailgate trim, 2 bolts and wiper motor. To install, reverse removal procedure. Ensure grommet is in good condition.

#### **REAR WIPER RELAY**

#### Removal & Installation

On all models equipped with rear wiper relay except Montero, relay is located behind right rear quarter trim. On Montero, relay is located on left side of steering column, behind dash.

#### **REAR WIPER SWITCH**

#### Removal & Installation

Pry rear wiper switch from instrument panel and disconnect wiper switch. To install switch, reverse removal procedure.

#### **WIRING DIAGRAMS**

See appropriate chassis wiring diagram in the WIRING DIAGRAMS Section.

**END OF ARTICLE**