

WIPER/WASHER SYSTEM

1986 Isuzu Trooper II

1986 Wiper/Washer Systems
ISUZU

DESCRIPTION

All models have a 2-speed wiper system with washer. Control switch is located on a steering column lever. All models may be equipped with an intermittent system which gives a short delay between wipe cycles. I-Mark, Impulse, and Trooper II (if equipped) also have rear window mounted wiper/washer system.

TROUBLE SHOOTING

WIPER ACTION SLUGGISH OR UNEVEN

Worn or binding linkage. Poor ground connection. Worn motor brushes.

WIPER DOES NOT PARK OR DOES NOT STOP

Dirty contact points in park switch at motor. Shorted or open wiring. Bad wiper switch.

WIPER DOES NOT OPERATE

Blown fuse. Open wiring circuit. Bad wiper switch. Defective wiper motor.

TESTING

WIPER MOTOR

Check wiper motor for proper RPM and current draw. See WIPER MOTOR SPECIFICATIONS table.

WIPER MOTOR SPECIFICATIONS

Selected Speed	Motor RPM	Current (Amps)
Low (1)	42-63	2.0-2.8
High	65-96	3.0-4.5

(1) - Rear wiper motor has only low speed.

REMOVAL & INSTALLATION

FRONT WIPER MOTOR

Removal (I-Mark)

Disconnect wiring connector. Remove wiper motor-to-body attaching bolts. Disconnect linkage from wiper motor and separate motor from linkage. Remove wiper motor assembly.

Removal (Impulse)

1) Remove cover and wiper attaching nut. Remove arm and

blade assembly. Remove wiper motor-to-body attaching bolts.

2) Remove bracket assembly with pivot, link and motor. Disconnect linkage from wiper motor and separate motor from linkage and bracket. Disconnect wiring connector.

Removal (P'UP)

Remove 4 motor mounting bolts. Disconnect wiring connector. Pull motor out part way and remove shaft nut. Remove motor.

Removal (Trooper II)

Remove covers and wiper arm attaching nuts. Remove arm and blade assemblies. Remove access hole cover on left firewall. Disconnect wiring connector. Disconnect linkage at joints. Remove wiper motor-to-body attaching bolts. Pull motor out part way and remove shaft nut. Remove motor.

Installation (All Models)

To install, reverse removal procedure.

REAR WIPER MOTOR

Removal & Installation

(I-Mark, Impulse, & Trooper II)

Remove cover and wiper arm attaching nut. Remove arm and blade assembly. Remove seal, lock nut and collar from behind wiper arm. Remove rear wiper motor attaching bolt. Remove wiper motor. To install, reverse removal procedure.

WIPER LINKAGE

Removal (I-Mark)

1) Remove wiper arm attaching nuts. Remove arm and blade assemblies. Disconnect wiring connector. Remove wiper motor-to-body attaching bolts.

2) Remove wiper motor assembly. Disconnect linkage from wiper motor and separate motor from linkage.

Removal (Impulse)

1) Remove cover and wiper attaching nut. Remove arm and blade assembly. Remove bolts attaching wiper motor to body.

2) Remove bracket assembly with pivot, link and motor. Disconnect linkage from wiper motor. Disconnect pivot assembly from wiper linkage.

Removal (P'UP)

1) Remove wiper arm covers, nuts and wiper arms. Remove pivot shaft nuts and push shafts into cowl. Remove access covers on cowl (in engine compartment).

2) Remove wiper motor bolts. Disconnect wiring connector. Remove motor complete with linkage. Disengage finger on link retainer from hole in link. Disconnect link by turning retainer clockwise.

Removal (Trooper II)

1) Remove wiper arm covers, nuts and wiper arms. Remove pivot shaft nuts and push shafts into cowl. Remove access covers on firewall.

2) Remove wiper motor bolts. Disconnect wiring connector. Pull motor out part way and remove shaft nut. Remove motor. Disengage finger on link retainer from hole in link. Disconnect link by turning retainer clockwise.

Installation (All Models)

To install, reverse removal procedure.

WIPER SWITCH

Removal (I-Mark)

Remove instrument panel gauge bezel. Disconnect wiper and light switch wiring connector. Remove nuts attaching switches to bezel with bracket. Remove switches.

Removal (P'UP & Trooper II)

Disconnect battery ground. Remove steering column covers. Disconnect wiring connector. Remove steering wheel, using "C" clamp puller. Remove 2 screws and combination switch.

Installation (All Models)

To install, reverse removal procedure.

NOTE: No information was available from manufacturer for removal and installation of wiper switch for Impulse.