



IMMI #®

Serving first responders for over 30 years











Injury \$310,000

S4.8
MILLION

Our Goal





crash

walk away event







2003
Fire Apparatus

2007
Heavy Truck











AB10 Crash Sensor

Sensor that determines if the vehicle is rolling over or in a frontal collision. Also performs diagnostics and deploys.

4Front

IMMI's name for Frontal Impact Protection.

Belt & ADM

Seat belt and adjustable D loop mechanism. The ADM raises and lowers the D ring to position the torso portion of the belt relative to the neck of the occupant.

DAB

Driver Airbag. Installed in the steering wheel.





FIP

Frontal Impact Protection system will activate airbags, seat belt pretensioners and any Side Roll devices.

IBP

Integrated Belt Pretensioner. Tightens and removes seat belt slack in a crash event.

ICP

Inter Connecting Point. This part connects the seat to the S4S system. This part is installed directly to the seat by the seat supplier.

IGP

Integrated Gas Pretensioner. Similar to IBP, but smaller with different style mounting. Does the same function as IBP.





KAB

Knee Air Bag is part of the 4Front frontal collision system it is designed to work in conjunction with a 3 point seat.

RollTek

IMMI's brand name for side rollover protection.

Slave sensor

Receives trigger signal from AB10 master sensor and can deploy up to 8 additional safety devices.





SRA

Side Rollover Airbag. A side airbag that is mounted within a seat. Deploys next to the head to protect the occupant.

SRS

Supplemental Restraint System. This term reflects the entire system as a supplement to seat belts, including diagnostics, sensors, airbags and pretensioners.

S4S

Suspension Seat Safety System. A seat belt and seat pretensioner combined. Significantly more powerful than a buckle pretensioner. Pretensions the seat belt and pulls down suspension seats in a crash event.





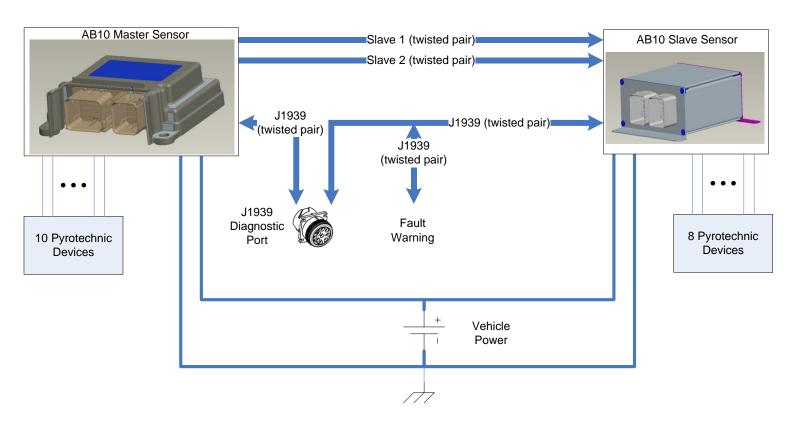






4Front System or RollTek

- Three Basic Parts
 - Master / Slave Sensors.
 - Pyrotechnic Devices.
 - Harness (OEM Supplied).

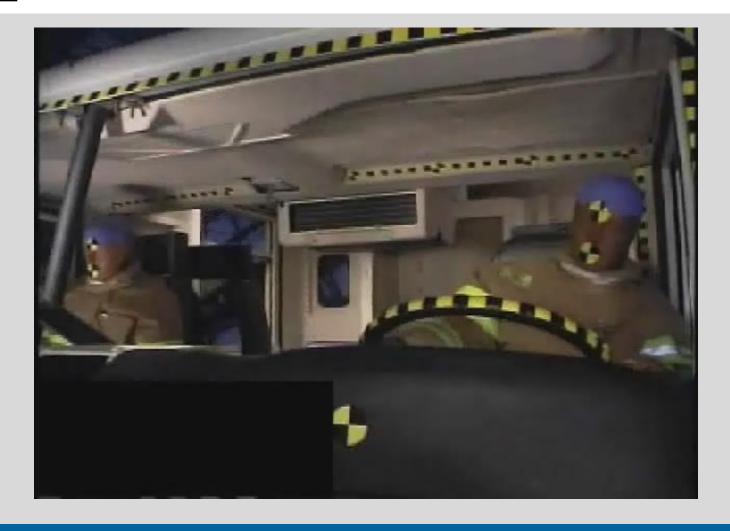






What happens in a rollover

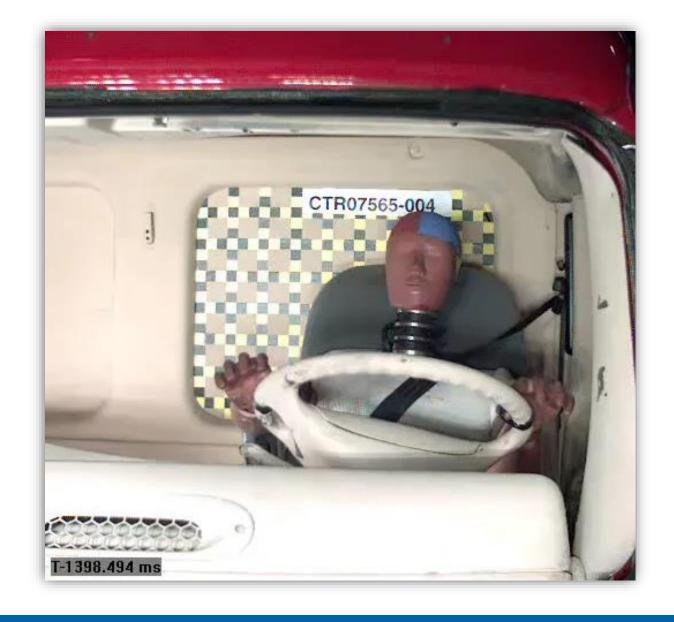
Unbelted Firefighters







Inside a truck during a rollover







Seat pulled down & seat belt tightened

S4S suspension seat











Side Roll Protection by IMMI





Rollover Protection System



- Secures firefighters
- Increases survivable space
- Protects head & neck









Frontal Collision Protection by IMMI







Airbag protection engineered for fire apparatus

How 4Front Works

SENSOR Sensor detects a frontal crash

TIGHTEN Seat belt tightens around body

PULL DOWN Suspension seats are pulled to the floor

creating maximum survivable space in the cab

INFLATE Frontal airbag inflates from steering wheel

Knee airbags inflate from center column/below glove box

RESULT

Protects head and neck of the driver Reducing the risk of death and injury



Driver's Airbag (DAB)









Frontal Airbag







Seat pulled down Seat belt tightened

Knee Airbags

Frontal Airbag

FRONTAL SENSOR



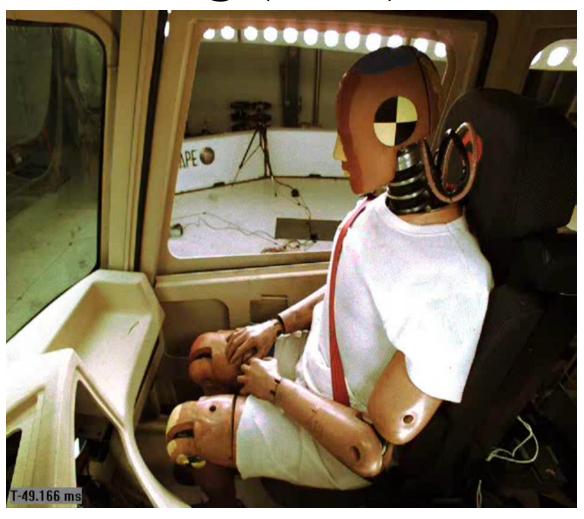






Driver and Officer Knee Airbag (KAB)









Knee Airbag (KAB) Located below the glove box.



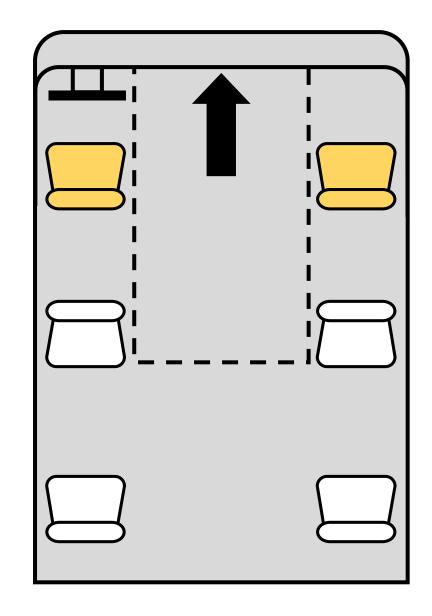




Availability

Driver & Officer

- 4Front
 - Frontal Airbag
 - Knee Airbag
 - ICP or IBP
- RollTek
 - Side Airbag (SRA)







Side Roll Airbag (SRA)

- Side Airbag.
- Not integrated into the cab trim.
- Only supported on one end.
- Mounting integrated into the seat.
- Airbag is always positioned relative to head.





SRA





Serial Number





SRA









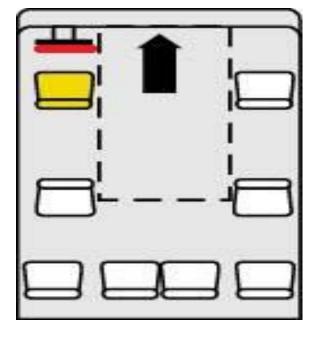
SRA







4Front / RollTek



Driver (air ride seat)

Lap-shoulder seat belt

IBP or ICP buckle pretensioner

SRA

S4S(Suspension Seat)

If 4Front is Available:

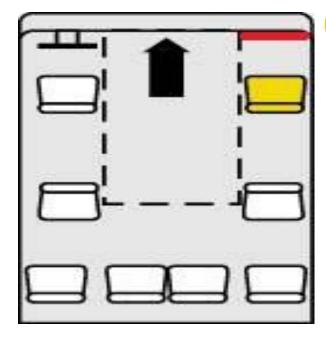
DAB (Driver Airbag)

KAB (Knee Airbag)





4Front / RollTek



Officer (Static Seat)

Lap-shoulder seat belt

SRA

IBP Buckle Pretensioner

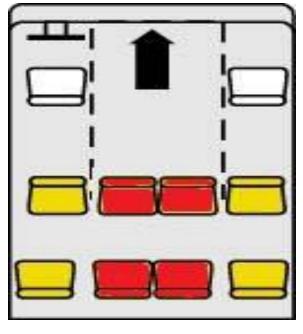
If 4Front is Available:

KAB (Knee Airbag)





4Front / RollTek



Crew (Static Seat)

Lap-shoulder seat belt

SRA

IBP Buckle Pretensioner

If Seat locations Available:

Lap-shoulder seat belt

IBP Buckle Pretensioner













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Thank You



