| | | | Test vehicle Sold Manufacture Type Displacement Vehicle weight Specification | : : : : : | IGNIS 2016.2 SUZUKI MOTOR CORPORATION DAA-FF21S 1,242cc 880kg Length × Width × Height : 3,700 × 1,660 × 1,595mm |
|---|---|---|--|-----------------------|---|
| New overall evaluation for vehicle safety | $\star\star\star\star\star$ | 164.6 * points | Tire | : | 5-door hatchback、CVT、FF、Seating Capacity:5 175/60R16 82H |
| Occupants protection | 75.19 | points | Test Vehicle Weight | : | Full-wrap:1,086kg |
| Pedestrian Protection | 76.97 | points | | | Offset:1,089kg |
| PSBR | 4.0 | points | | | Side:970kg |
| * As the evaluation method for the pedestrian prot correction coefficient so that it would be equal to 2015.) | tection performance was changed the collision safety performance | l, it was multiplied by the evaluations for FY 2011 to | | | |

Collision Tests

Full-wrap frontal collision test

| | | | | Head | | Neck | | | Chest | | | | Le | egs | | | | Body de | formation | |
|-------------------------------|--------------|----------------|------------------|----------------|------------------|-----------------|------------------------|---|-------------------------------|---------------------------|------------|--------------|----------|----------|----------|----------|--------------------------|---------------------------|--------------------------|---------------------------|
| Pas | senger prote | ction perfo | rmance | Injury Ioad | Shearing Ioad | Tensile Ioad | Moment of extension | Secondary contact of upper chest | Resultant accelerati on | Chest displacem ent | Femu [k | r load N] | Righ | it leg | Lef | t leg | Steerin; deforma | g column tion[mm] | Brake deforma | pedal tion[mm] |
| | Evaluation | Overall points | Score rate | [HIC] | [kN] | [kN]] | [Nm] | and steering wheel | [m/s²- 3ms] | [mm] | Right leg | Left leg | Upper TI | Lower TI | Upper TI | Lower TI | Rear displacem ent | Upper displacem ent | Rear displacem ent | Upper displacem ent |
| Driver's seat | Level4 | 9.04 | 75.4% | 446.8 | 0.53 | 1.77 | 17.60 | None | | 33.22 | 0.51 | 0.63 | 0.60 | 0.61 | 0.74 | 0.83 | 0 | 0 | 34 | 43 |
| Front passeng er's seat | Level3 | 8.99 | 74.9% | 424.4 | 0.47 | 1.15 | 18.26 | | | 30.49 | 2.82 | 0.44 | 1.10 | 0.81 | 0.76 | 0.49 | | | | |
| | | | Door openability | | | | | Rescu | ability | | | - | | - | | | | | | |
| т | | D : | Driver side | | | | | | | | | | | | | | | | | |

| | | | | | , | | | | | | |
|------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------|----------|---------------------|
| Fron | | Drive | rside | | | Front pass | enger side | | Fuel | | |
| Driver t pas: | Door op | enability | Door I | ocked | Door op | enability | Door | locked | leakage after | Driver's | Front passenger' |
| 's seat∕ senger's s | First row (1st row) | Second row (2nd row) | collision | seat | s seat |
| æat | One hand | One hand | None | None | One hand | One hand | None | None | None | Hand | Hand |

Offset frontal collision test

| | | | | H | ead | | Neck | | | Chest | | | | | Legs | | | | | Body def | formation | |
|-----------------------------|--------------|----------------|------------|-----------|-------------|------------------|-----------------|------------------------|---|-------------------------------|---------------------------|------------------------------|------------|----------------|----------|----------|----------|----------|--------------------------|---------------------------|--------------------------|---------------------------|
| Pa | senger prote | ection perfo | rmance | Secondary | Injury load | Shearing Ioad | Tensile load | Moment of extension | Secondary contact of upper chest | Resultant accelerati on | Chest displacem ent | Riding up of wrap belt | Femu [k | ır load :N] | Righ | it leg | Left | t leg | Steering deformat | ; column tion[mm] | Brake deforma | pedal tion[mm] |
| | Evaluation | Overall points | Score rate | collision | [HIC] | [kN] | [kN] | [Nm] | and steering wheel | [m/s²- 3ms] | [mm] | from pelvis | Right leg | Left leg | Upper TI | Lower TI | Upper TI | Lower TI | Rear displacem ent | Upper displacem ent | Rear displacem ent | Upper displacem ent |
| Driver's seat | Level4 | 9.72 | 81.0% | | 382.1 | 0.50 | 1.65 | 12.05 | None | | 31.88 | | 0.22 | 0.24 | 0.51 | 0.62 | 0.62 | 0.55 | 0 | 0 | 0 | 0 |
| Rear passeng er's sea | Level3 | 8.00 | 66.7% | None | | | 3.07 | | | | 55.36 | None | 0.13 | 0.29 | | | | | | | | |

| | | | | Door op | enability | | | | | Rescu | ability |
|------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------|----------|---------------------|
| Rear | | Drive | r side | | | Front pass | enger side | | Fuel | | _ |
| Driver 7 pass | Door op | enability | Door I | ocked | Door op | enability | Door | locked | leakage after | Driver's | Front passenger' |
| 's seat∕ senger's s | First row (1st row) | Second row (2nd row) | collision | seat | s seat |
| eat | One hand | One hand | None | None | One hand | One hand | None | None | None | Hand | Hand |

*Since the seat belt of the rear seat dummy was deflected from shoulder to upper arm due to the impact of the collision, it might be resulted in the higher chest injury value (scored based on the length of chest displacement).

Side collision test

| | | | | Head | Chest | | | | Door op | enability | | | Resucuabil ity | |
|------------------|--------------|----------------|------------|-----------------|------------------|-----------------|---------------|------------------------|----------------------------|------------------------|----------------------------|-----------|---------------------|-------------------|
| Pas | senger prote | ection perfo | rmance | injury value | displacem ent | Abdomen load | Pubis Ioad | | Front pass | enger side | | Fuel | | Vehicle turned |
| | | | | | | | | Door op | enability | Door | locked | after | Front passenger' | sideways after |
| | Evaluation | Overall points | Score rate | [HPC] | [mm] | [kN] | [kN] | First row (1st row) | Second row (2nd row) | First row (1st row) | Second row (2nd row) | collision | s seat | impact |
| Driver's seat | Level5 | 11.72 | 97.7% | 391.5 | 17.26 | 1.21 | 2.97 | One hand | One hand | None | None | None | Hand | None |

Neck Injury Protection Rear-end Collision Performance Test

| | Pass | enger protection perform | nance | NIC | | Upper | r neck | | | Lower | neck | |
|-------------------------------|------------|--------------------------|------------|---------|----------------------|-------------------------|--|--|----------------------|-------------------------|--|--|
| | Evaluation | Overall points | Score rate | [m²/s²] | Shearing load [N] | Axial force load [N] | Horizontal axial moment (Flexion) [Nm] | Horizontal axial moment (Extension) [Nm] | Shearing load [N] | Axial force load [N] | Horizontal axial moment (Flexion) [Nm] | Horizontal axial moment (Extension) [Nm] |
| Driver's seat | Level5 | 10.69 | 89.1% | 15.2 | 1.3 | 292.8 | 5.3 | 9.3 | 211.9 | 110.4 | 1.5 | 3.4 |
| Front passeng er's seat | Ť | Ť | Ť | Ť | Ť | Ť | Ť | Ť | Ť | Ť | 1 | 1 |

Pedestrian Protection (Head Protection Performance Test / Leg Protection Performance Test)



- PSBR

| | Environment | Qualities | | | | | | | Det | tails | | | | | | | |
|------------|---------------------|--------------------|-------|---------------|-------|------------|----------|-------|-------|-----------------------|---------------|-------|---------|----------|-------|-------|--|
| Fuchanting | Equipment | Condition | | | Front | passenger' | s seat | | | Rear passenger's seat | | | | | | | |
| Evaluation | Front passenger' | Rear passenger' | A | Auditory alar | m | | Visual | alarm | | Α | Auditory alar | m | | Visual | alarm | | |
| | s seat | s seat | Sound | Range | Score | Display | Position | Range | Score | Sound | Range | Score | Display | Position | Range | Score | |
| Level2 | 0 | - | 0 | B 40 O A A 10 | | | | | | | | | | | | | |

(1) Up indicates that the vehicle has equipment with proper futureous, (-) indicates that the vehicle was even equipment. (2) In the "Range" colum, "A" means driver's seat on the passe and the passenger's seat concerned only. (3) In the "Position" colum, "A" means in front of the driver's seat, "B" means in front of the front passenger's seat. "C" means the center console area, "D" means in front of the rear seat on the window side, "E" means close to the center area of the rear seat, "F" means ("B" driver") and ("B" driver")

Rear passenger's Seat Belt Usability Evaluation Test

| Padar | abaut | | Seat belt accessibility | | Incortohilit | Seat belt wearing | comfortability [N] | | Rear seat |
|---------------------------|--------------------|--|-------------------------------|--------|----------------|-------------------------------|-------------------------------|----------------|---|
| Nauar | Chart | | [mm] | Buckle | y | 50mm position | 25mm position | | |
| Event percenter cost side | Driver's sect side | | Design standard position | on | into buekle | Design standard position | Design standard position | Center seat | Remarks |
| Front passenger seat side | Driver's seat side | | Forward most seat position | | DUCKIE | Forward most seat position | Forward most seat position | | |
| | | 2nd row [Driver's seat side] | Ţ | ţ | ţ | Ļ | Ţ | 3 point | When three persons take a backseat after the buckle for rear center seats had been exited exitable there |
| | | 2nd row [Front passeng er side] | 205/334 | b | f&g | 8.6/10.3 | 1.2/1.1 | style | is a possibility that the buckle concerned may disappear. |

Installation Conditions Of Safety Devices

| ABS | Provided |
|--------------------------------|--|
| Air bag | Driver's seatProvided/Front passenger seatProvided |
| Side air bag | Not provided |
| Side curtain Air bag | Not provided |
| Stability Contorol System | Provided |
| Damage Mitigation Brake System | Not provided |
| Seat Type | Driver's seat:Passive seat Front passenger seat:Passive seat |
| Seatbelt pretensioner | First row:Driver's seat:Provided/Front passenger seat:Provided Second row:Driver's side:Not provided/Front passenger side:Not provided/Center seat:Not provided |
| Seat belt force (load) limiter | First row:Driver's seat:Provided/Front passenger seat:Provided Second row:Driver's side:Not provided/Front passenger side:Not provided/Center seat:Not provided |
| Seatbelt Reminder | Front passenger seat:Provided Rear passenger seat:Not provided |