

# FRR 500 AMT

**ISUZU**  
TRUCKS  
*For the long run*

## ENGINE

|                    |                    |  |
|--------------------|--------------------|--|
| Model              |                    | 4HK1-TCS   |
| Type               |                    | TURBOCHARGED & INTERCOOLED                           |
| Fuel Injection     |                    | Common Rail  |
| Emmision Standard  |                    | Euro 2   |
| No. of Cylinders   |                    | 4  |
| Bore x Stroke      | (mm)               | 115 x 125  |
| Displacement       | (cm <sup>3</sup> ) | 5 193  |
| Compression Ratio  | (:1)               | 17.5   |
| Output             | (kW @ r/min)       | 154 @ 2,600  |
| Output             | (hp @ r/min)       | 206 @ 2,600  |
| Torque             | (Nm @ r/min)       | 637 @ 1,600 - 2600                                   |
| Filtration - Fuel: |                    | PRIMARY FILTER WITH WATER TRAP PLUS SECONDARY FILTER |
| Filtration - oil:  |                    | SINGLE   |

## CLUTCH

|                     |                    |                             |
|---------------------|--------------------|-----------------------------|
| Diameter            | (mm)               | NA                          |
| Total Friction Area | (cm <sup>2</sup> ) | NA                          |
| Operation           |                    | AUTOMATED HYDRAULIC CONTROL |

## TRANSMISSION

|                     |      |                     |
|---------------------|------|---------------------|
| Make / Model        |      | MZW6P               |
| Type                |      | 6 Speed synchromesh |
| Controls            |      | Manual Gearshift    |
| Crawler Gear Ratio  | (:1) | N/A                 |
| 1st Gear Ratio      | (:1) | 6.615               |
| 2nd Gear Ratio      | (:1) | 4.095               |
| 3rd Gear Ratio      | (:1) | 2.358               |
| 4th Gear Ratio      | (:1) | 1.531               |
| 5th Gear Ratio      | (:1) | 1.000               |
| 6th Gear Ratio      | (:1) | 0.722               |
| 7th Gear Ratio      | (:1) | -                   |
| 8th Gear Ratio      | (:1) | -                   |
| 9th Gear Ratio      | (:1) | -                   |
| 10th Gear Ratio     | (:1) | -                   |
| 11th Gear Ratio     | (:1) | -                   |
| 12th Gear Ratio     | (:1) | -                   |
| 13th Gear Ratio     | (:1) | -                   |
| 14th Gear Ratio     | (:1) | -                   |
| 15th Gear Ratio     | (:1) | -                   |
| Reverse Gear Ratio  | (:1) | 6.615               |
| Transfer Case Ratio |      | -                   |

## PERFORMANCE

|  |        |      |
|--|--------|------|
| Maximum Speed ( Calculated )             | (km/h) | 117  |
| Gradeability @ V in 1st Gear (low range) | (%)    | 45.1 |

## SUSPENSION

|   |     |
|---|-----|
| <b>Front</b> : Multi Leaf Spring                        | YES |
| Stabiliser bar  | YES |
| Shock Absorbers - Double acting                         | YES |
| <b>Rear</b> : Multi Leaf Main Spring with Helper Spring | YES |
| Stabiliser bar  | NO  |
| Shock Absorbers - Double acting                         | NO  |

## BRAKES

|                           |       |               |      |
|---------------------------|-------|---------------|------|
| System                    |       | AOH           |      |
| Park Brake                |       | REAR WHEELS   |      |
| Front                     |       | DRUM          |      |
| Rear                      |       | DRUM          |      |
| ABS                       |       | STANDARD      |      |
| ASR                       |       | NO            |      |
| Auxillary                 |       | EXHAUST BRAKE |      |
| Auto Slack adjusters      |       | STANDARD      |      |
| Total Friction Area Front | (cm2) |               | 1608 |
| Total Friction Area Rear  | (cm2) |               | 2915 |
| Retarder                  |       |               |      |

## STEERING

|                     |      |           |  |
|---------------------|------|-----------|--|
| Operation           |      | POWER     |  |
| Ratio               | (:1) | 16.1-18.8 |  |
| Adjustable Steering |      | YES       |  |

## CAB

|                                       |  |         |  |
|---------------------------------------|--|---------|--|
| Control                               |  | FORWARD |  |
| Adjustable Drives Seat                |  | YES     |  |
| Air Suspension Drive Seat             |  | YES     |  |
| Fixed Assistants Seat and Centre Seat |  | YES     |  |
| Heater and Demister                   |  | YES     |  |
| Cigarette Lighter (24V)               |  | YES     |  |
| Tilt                                  |  | YES     |  |
| Tilt Torsion Bar Assistance           |  | NO      |  |

## WHEELS & TYRES

|                           |  |             |  |
|---------------------------|--|-------------|--|
| Type                      |  | RADIAL      |  |
| Tubeless single piece rim |  | YES         |  |
| Tyre Size (Front)         |  | 235/75R17.5 |  |
| Tyre Size (Rear)          |  | 235/75R17.5 |  |
| Wheel Size (Front)        |  | 17.5x6.00   |  |
| Wheel Size (Rear)         |  | 17.5x6.00   |  |
| No. of Studs              |  | 6           |  |

## FUEL TANK (Lockable)

|                        |          |     |  |
|------------------------|----------|-----|--|
| Capacity               | (Litres) | 200 |  |
| Lockable Fuel Tank Cap |          | Yes |  |

## FRONT AXLE

|                                 |  |      |  |
|---------------------------------|--|------|--|
| Model                           |  | F036 |  |
| Type : Reverse "Elliot" I-Beam  |  | Yes  |  |
| Full Floating Axle Control Type |  | -    |  |

## REAR AXLE

|   |      |       |  |
|---|------|-------|--|
| Model   |      | R077  |  |
| Type : Single banjo, Full Floating, Integral Shaft & Drive Flange |      | Yes   |  |
| Final Drive Ratio   | (:1) | 4.875 |  |

## ELECTRICAL SYSTEM

|                |     |              |  |
|----------------|-----|--------------|--|
| System Voltage | (V) | 24           |  |
| Alternator     | Amp | 60           |  |
| Starter Motor  | kW  | 5            |  |
| Batteries      |     | 2 X 12V 70Ah |  |

## AIR INTAKE

|                      |  |             |  |
|----------------------|--|-------------|--|
| Intake               |  | RR Vertical |  |
| Primary Air Filter   |  | YES         |  |
| Secondary Air Filter |  | YES         |  |
| Make:                |  | DONALDSON   |  |
| Service Indicator    |  | NO          |  |

**DIMENSIONS** (mm)

|                               |       |
|-------------------------------|-------|
| OL – Overall Length           | 7 425 |
| OW – Overall Width            | 2 120 |
| OH – Overall Height           | 2 530 |
| WB – Wheelbase                | 4 360 |
| FOH – Front Overhang          | 1 170 |
| ROH – Rear Overhang           | 1 895 |
| BW – Rear Axle Width          | 2 170 |
| FT – Front Track              | 1 790 |
| RT – Rear Track               | 1 660 |
| EH – Chassis Rear End Height  | 955   |
| CWF - Front Chassis Width     | 840   |
| CWR – Rear Chassis Width      | 840   |
| HH – Rear Ground Clearance    | 186   |
| CE – Cab to Chassis End       | 5 699 |
| CA – Cab to Axle              | 3 804 |
| GP – Minimum Body Gap         | 74    |
| Turning Circle (curb to curb) | 13.56 |

**MASS DATA** (kg)

|                                    |        |
|------------------------------------|--------|
| Manufacturer's GVM                 | 10 000 |
| Permissible Gross Mass (V)         | 10 000 |
| Manufacturer's GCM                 | 16 000 |
| Permissible Combination Mass (D/T) | 16 000 |
| Front Axle Tare Mass               | 2 020  |
| Rear Axle Tare Mass                | 1 200  |
| Total Tare Mass                    | 3 220  |
| Gross Axle Mass Load - Front (GA1) | 3 600  |
| Gross Axle Mass Load - Rear (GA2)  | 7 700  |
| Permissible Axle Load - Front (A1) | 3600   |
| Permissible Axle Load - Rear (A2)  | 7600   |
| Tyre Capacity - Front              | 4 000  |
| Tyre Capacity - Rear               | 7 600  |
| Approx. Body & Payload             | 6 780  |
| Approach Angle (4x4 Specific)      | -      |
| Break-over Angle (4x4 Specific)    | -      |
| Departure Angle (4x4 Specific)     | -      |

**WARRANTY**

|               |                          |
|---------------|--------------------------|
| New Vehicle   | 24 MONTHS / UNLIMITED KM |
| Cab Corrosion | 36 MONTHS / UNLIMITED KM |

**OPTIONAL**

|                      |   |
|----------------------|---|
| Aircon               | AVAILABLE   |
| PTO Fail Safe system | Compulsary fitment to any operation that requires a PTO |
| Radio / CD / (24V)   | AVAILABLE   |
| Techo Graph          | AVAILABLE   |

**MISCELLANEOUS EQUIPMENT**

|  |     |
|--|-----|
| Jack, warning triangle, basic tool kit | YES |
| Owners handbook & service hand booklet | YES |
| Rear Chevron board                     | YES |

Specifications correct at time of publish. E & OE.

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