

TD AT A GLANCE

MODEL LINE-UP

Gemini sedan (base, primarily fleet).

Gemini SL sedan.

Gemini SL coupe.

* Gemini SLE sedan.

* Gemini SLE coupe.

* Gemini station wagon.

* Gemini panel van

* new models

MAJOR NEW FEATURES

- . Radial Tuned Suspension.
- . Salisbury rear axle assembly.
- . five speed manual transmission, available (Std. SLE).
- . rectangular headlights (except Gemini sedan, panel van).
- . larger capacity alternator.
- . radio power increased to 5 watts.
- . redesigned and repositioned seating.
- . alloy wheels available (Std. SLE).
- . side protection moulding (except Gemini sedan, panel van).

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EQUIPMENT LEVELS

	GEMINI SL	GEMINI SLE	STATION WAGON	PANEL VAN
* RTS including steel belt radials & 5.00 JJ x 13 wheels.	S	S	S	S
Power assisted front discs.	S	S	S	S
Four speed manual trans- mission.	S	N/A	S	S
* Five speed manual trans- mission.	0	S	0	0
Automatic transmission.	0	0	0	0
* High intensity rectangular headlights.	S	S	S	N/A
* HP PB radio, lockdown aerial.	S	N/A	0	0
* AM radio/tape player with lockdown aerial.	0	S	0	0
* Reclining full foam bucket seats.	S	S	S	S
* Centre console.	S	S	S	N/A
Loop pile carpet.	S	N/A	S	N/A
* Cut pile carpet.	N/A	S	N/A	N/A
* Heated rear window.	S	S	N/A	N/A
Column mounted control stalks.	S	S	S	S
* Retracting front seat belts.	S	S	S	S
3-speed heater/demister.	S	S	S	S

	GEMINI SL	GEMINI SLE	STATION WAGON	PANEL VAN
Flow through vent.	S	S	-	-
Cigarette lighter.	S	S	S	S
Front ashtray.	S	S	S	S
2 ashtrays rear.	S	S	S	-
Passenger assist handles/ coat hooks.	S	S	(1)	N/A
Anti-glare rear vision mirror.	S	N/A	S	S
* Day/night rear vision mirror.	N/A	S	N/A	N/A
Passenger side mirror.	N/A	S	N/A	S
* Dual sports mirror.	N/A	S	N/A	N/A
Clock.	S	S	0	0
Trip odometer.	S	S	S	S
Water temperature gauge.	S	S	S	S
* Tachometer.	0	0	N/A	0
* Oil pressure gauge.	0	0	N/A	0
* Ammeter.	0	0	N/A	0
Front door armrests.	S	S	S	S
Rear armrests.	S	S	S	-
Lockable glovebox.	S	S	S	S
Demand washers.	S	S	S	S
Headlamp flasher.	S	S	S	S
Hazard flasher.	S	S	S	S
* Vinyl/cloth trim.	0	S	N/A	N/A
Plastic sill plates.	S	S	S	S

	GEMINI SL	GEMINI SLE	STATION WAGON	PANEL VAN
* Full length side protection.	S	S	S	N/A
* Full wheel covers.	S	N/A	S	N/A
* Alloy wheels.	0	S	0	0
Dual horns.	S	S	S	S
Concealed, lockable fuel filler cap.	S	S	S	S
Child proof doorlocks, rear (sedans).	S	S	-	-
Hood lock/release.	S	S	S	S

S standard

0 optional

N/A not available

- variant, does not apply

* new features (including new standard equipment, new options, revised carry over equipment.)

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MAJOR ENGINEERING CHANGES

Wheels

5.00 x 13 wheels standard.

Tyres

Steel belted radial ply tyres standard.

Springs

Lengthened, variable rate coil springs, front and rear.

Front and rear ground clearance increased.

Bump Stops

Progressive rate.

Stabiliser Bars

Addition of front and rear bars.

Shock Absorbers

Retuned front and rear, linear calibration.

Rear Axle

New Salisbury rear axle assembly.

Transmission

Addition of 5 speed manual gearbox with overdrive.
(Standard SLE)

Recalibrated automatic shifter.

Lighting

High intensity rectangular headlights, except Gemini sedan and panel van.

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NEW STYLING FEATURES

GEMINI SEDAN

- Exterior
- new grille, silver painted horizontal and vertical bars.
 - silver painted headlight bezels.
 - Gemini badge, relocated rear quarter panels.
 - full length side striping.
 - plastic wheel centre cap.
 - plastic wheel nut covers.
 - Gemini badge, relocated, right hand rear boot lid with new rectangular Holden plate.
 - RTS badge, left hand, boot lid.
 - licence plate, relocated centre rear panel.
- Interior
- new front bucket seat design.
 - new trim design.
 - revised rear seat design and location.
 - RTS badge, glovebox lid.
 - relocated front seat belt retractor anchorages.

GEMINI SL - changes over sedan

- Exterior - rectangular headlights.
- full length side protection mouldings.
- new full wheel covers.
- bright strip across engine hood.
- Gemini SL badge relocated on rear quarter panels.
- reveal chrome moulding, side window openings.
- Interior - heated rear window.
- heated rear window switch.

GEMINI SLE - changes over SL

- Exterior
- stainless steel moulding surrounding head-lights and grille.
 - SLE badge on front fenders.
 - lower, wide full length side protection mouldings.
 - stainless steel wheel opening mouldings.
 - stainless steel scalp mouldings on doors.
 - alloy wheels.
 - 5 speed badge on rear end panels.
 - body colour sports mirrors.

- Interior
- cloth seat trim.
 - woodgrain inserts on dash, vinyl/carpet with woodgrain mylar inserts on door trims.
 - full height door trims, covered B pillar.
 - 4 spoke steering wheel.
 - colour coded interior appointments.
 - AM radio/stereo tape player.
 - tinted, banded, laminated windshield.
 - 5 speed gearbox gearshift.

GEMINI STATION WAGON - based on SL appointments
new body rear of front doors

Exterior - pivoting rear passenger windows.
- large rear compartment windows.
- one piece rear tailgate with window, single
gas strut.
- one piece vertical wrap around tail light
cluster.

Interior - fold down rear seat.
- carpeted tonneau floor.
- full length headlining.
- spare wheel with vinyl cover, right rear of
compartment.
- rear quarter panel and wheelhouse covering.

GEMINI PANEL VAN - based on Gemini sedan appointments
new body rear of front doors.

Exterior - twin exterior mirrors.
- rear compartment without rear seat and side
panel.
- one piece tailgate.
(same as station wagon).

Interior - painted rear tonneau floor.
- cargo barrier-lip behind bucket seats.
- no full headlining.

TD ENGINEERING

Radial Tuned Suspension is now common to all GMH vehicles with its introduction on the TD Gemini.

The Gemini, since its inception has always had a reputation as a nimble, fine handling vehicle. Changes necessary to include RTS in the TD range were not as extensive as in the HZ Holden and the UC Torana/Sunbird but the effect on ride, comfort and handling has been just as dramatic.

TD with RTS further enhances the confident road handling ability of this small car, to the extent that few competitors, if any, can match its precision and predictability under all conditions and loads.

An improvement in ride comfort has been a prime consideration in the development of the RTS system for TD.

This was achieved by fitting new, longer, progressive rate type coils springs front and rear, which also increase ground clearance, and retuning shock absorbers all round.

Progressive rate design front and rear bump stops allow less bump through. These new bump stops, coupled with longer coil springs lessen the probability of front crossmember and rear body distortion.

Ride is not only more comfortable but smoother and flatter with the addition of front and rear stabiliser bars to control body roll under cornering.

Standard steel belted radial tyres on wider 5.00 x 13 wheels improve road holding ability and working together with the stabiliser bars produce a quicker steering response.

A new, lighter GMH designed and built Salisbury rear axle assembly has been modified to fit the TD. This replaces the Borg Warner unit and has other specific advantages of improved axle gear support and less axle noise.

TD GEMINI TECHNICAL SPECIFICATIONS

POWER TRAIN AVAILABILITY

MODEL	ENGINE	TRANSMISSION		REAR AXLE
		STANDARD	OPTIONAL	STD.
GEMINI SEDAN	L13 1584 cc 4-Cyl (ISUZU)	M20 (ISUZU) 4 SPEED MANUAL WITHOUT CONSOLE	M75 (ISUZU) 5 SPEED MANUAL	3.90
GEMINI SL SEDAN		M20 (ISUZU) 4 SPEED MANUAL WITH CONSOLE	M40 3 SPEED TRIMATIC AUTOMATIC	
GEMINI SL COUPE				
GEMINI SLE SEDAN		M75 (ISUZU) 5 SPEED MANUAL WITH CONSOLE	M40 3 SPEED TRIMATIC AUTOMATIC	
GEMINI SLE COUPE				
GEMINI STATION WAGON		M20 (ISUZU) 4 SPEED MANUAL	M75 (ISUZU) 5 SPEED MANUAL	
GEMINI PANEL VAN			M40 3 SPEED TRIMATIC AUTOMATIC	

ENGINE

1600 L17 Isuzu 4 Cylinder, overhead camshaft, five bearing crankshaft, cross flow aluminium head, cast iron block.

1600 ISUZU 4 CYL	
Bore and Stroke	82.0 x 75.0 mm
Displacement (Actual)	1584 cc
Gross Power Output	61kW @ 5200 rpm
Gross Torque	127Nm @ 3600 rpm
RAC Rating	16.69
Compression Ratio	8.7 : 1

SUSPENSION - Radial Tuned Suspension

- Front: Independent short/long control arms on cross-member rigidly attached to body. Variable rate coil springs. Double acting hydraulic shock absorbers attached to upper control arms and mounted in reinforced, inner wheelhouse towers. Stabiliser bar mounted to lower control arms. Anti-dive geometry.
- Rear: Live axle with torque tube, two tubular trailing arms and panhard rod. Variable rate linear coil springs. Vertically mounted double acting hydraulic shock absorbers. Decoupled stabiliser bar.

REAR AXLE

Live Salisbury type rear axle assembly, 3 piece housing with integral differential housing and carrier and two steel tubes. Torque tube bolted to differential carrier, has central joint mounted on crossmember.

STEERING

Helical rack and pinion type. Direct linkage from rack through rods to steering arms.
Overall steering ratio 20.7:1. Turns lock to lock 4.2.
Circular two spoke steering wheel. 4 spoke wheel, SLE.

BRAKES

Hydraulic with dual master cylinder. Power assisted front disc brakes (unboosted Gemini sedan), drums rear with pressure sensitive proportioning valve.

Front disc diameter: 239 mm.

Total swept area: 1080.5 sq. cm.

Rear drum diameter: 229 mm.

Total drum swept area: 638.3 sq. cm.

Total swept area (disc/drum): 1718.8 sq. cm.

Centre console mounted parking brake, operating on rear wheels.

FUEL SYSTEM

Nippon Kikaki 2 bbl downdraft carburettor mounted on 4 branch water heated aluminium intake manifold. Submerged electric rotary fuel pump, in fuel tank. Electrically controlled automatic choke.

ELECTRICAL SYSTEM

12 volt with 40 A/H 7 plate battery, 35 amp Nippon Denso alternator (40 air conditioning) sedan and panel van, 50 amp (wagon, SL, SLE), Hitachi pre-engage type starter motor.

COOLING SYSTEM

Liquid pressurised system (6 litres capacity) full length water jackets each cylinder. Thermostatic control. Belt driven 4-blade fan (plastic) and water pump.

EXHAUST SYSTEM

Single front pipe into centre pipe with main silencer (triple flow) and into tail pipe with tail silencer (fibreglass straight through) and single outlet.

EXHAUST EMISSION CONTROLS

Manual transmission: EM (Engine Modification) including CRS (Coasting Richer System), dash pot and SDV (Spark Delay Valve). ECS (Evaporative Emission System).

Optional automatic transmission: EGR (Exhaust Gas Recirculation) and ECS.

TRANSMISSION

Manual M20 and M75: all synchromesh, helical cut forward gears, spur tooth reverse. Floorshift.

Optional automatic: M40 Trimatic, automatic hydraulic torque converter, planetary gear system, solenoid operated downshift switch, water cooled.

CLUTCH

Cable operated single dry plate.

WHEELS

Full circle vented 4 stud steel disc safety wheels 5.00 JJ x 13, standard all models except SLE (alloy wheels 5.00 JJ x 13). Spare wheel vertically mounted in right hand side of boot (sedan and coupe), right hand side rear compartment, wagon and van.

TYRES

Steel belted radial ply tyres on all models:

Gemini sedan, SL:	YR78S13 4 P/R
Gemini SLE:	ZR70S13 6 P/R
Station wagon:	ZR78S13 4 P/R
Panel Van:	ZR78S13 6 P/R

INSTRUMENTS

All models:

Gauges

- speedometer (0-180 km/h with odometer and tripmeter).
- fuel
- temperature
- clock (standard SL, SLE)

Warning lights

- brake system failure
- park brake
- generator
- oil pressure
- hi-beam indicator
- indicator lights

Steering column mounted combination control

Right hand

- headlight dipper
- headlight flasher
- indicators

Left hand

- PB screen washers
- 2 speed wiper switch

Hazard warning light switch separately on right hand of steering column.

Other controls

- heated rear window switch on right below instrument panel
- headlight switch, right, instrument panel
- heater/demister/3 speed fan above console

- Optional instruments
 - oil pressure gauge
 - ammeter
 - tachometer
- Optional controls
 - driving light switch

LIGHTING

High intensity rectangular sealed tungsten filament single headlights, 60 watt low beam, 70 watt high beam, standard SL, SLE, station wagon. Single circular sealed tungsten filament headlights, 40 watt low beam, 50 watt high beam, standard Gemini sedan, panel van. Optional rectangular driving lights.

TRANSMISSION

M20 ISUZU 4-SPEED MANUAL: all synchromesh,
floor shift.

M75 ISUZU 5-SPEED MANUAL: all synchromesh,
fifth gear - overdrive, floorshift, console.

M40 AUSTRALIAN 3-SPEED TRIMATIC - T-bar
floorshift, console.

RATIOS	M20 4-SPEED	M75 5-SPEED	M40 TRIMATIC
1st	3.51	3.51	2.31
2nd	2.17	2.17	1.46
3rd	1.42	1.42	1.00
4th	1.00	1.00	-
5th	-	0.85	-
Reverse	3.93	3.76	1.85
Final Drive Std	3.90:1		

DIMENSIONS

Model	Overall Length mm.	Overall Width mm.	Overall Height mm.	Wheelbase mm.	Track mm. Front/Rear	Weight (approx. kerb) kg.	Turning Circle m.	Fuel Tank Capacity Litres
GEMINI SEDAN	4133	1570	1363	2404	1301, 1305	924	9.4	52
GEMINI SL SEDAN						941		
GEMINI SL COUPE			1341			920.5		
GEMINI SLE SEDAN			1363			960		
GEMINI SLE COUPE			1341			937		
GEMINI STATION WAGON	4158	1570	1350	2404	1301, 1305	963	9.4	52
GEMINI PANEL VAN			1344			925		

SAFETY FEATURES

Seat belts for all occupants.
Energy absorbing steering column and steering wheel.
Anti-theft combined steering/ignition lock.
Tandem brake cylinder - split hydraulic circuits.
Knock-out type internal rear vision mirror mounting with shatter resistant mirror.
External rear vision mirror glare reduced.
Toughened windshield with modified zone.
Safety glass windows.
Glare reduced - safety padded instrument panel.
Recessed instruments and instrument panel controls.
Glare reduced instruments and controls.
Low profile window regulator handles.
Sun visors - energy absorbing.
Lift-up exterior door handles.
Safety door locks - handles free-wheel rear doors child-proof.
Electric windshield washer.
2 speed windshield wipers with glare reduced arms and blades (matt black).
Hazard warning flasher.
Back-up lamps.
Flow through ventilation.
Fusible link in wiring harness.
Fan assisted heater demister.
Brake failure lamp.
Safety flanges on both rims of road wheels.
Front seat head restraints.
Skid header panel.
Floor mounted handbrake.
Parking brake warning lamp.

TD GEMINI

OPTIONS INCLUDE:

- * A22 Tinted laminated windscreen
- C60 Fully integrated air conditioning.
- * M75 5 speed transmission.
- * N67 Cast alloy wheels.
- M40 Trimatic automatic.
- UA1 Heavy duty battery.
- * UN3 AM radio/tape player.
- * XS9 Vinyl/cloth trim
- A8T Fashion pack.
- V5R Vinyl/cloth plaid trim.
- XW6 Metallic paint
- * Day/night rear vision mirror
- TT4 Driving lights.

* options standard on SLE