TATA PUNCH NGTC

SUPPLEMENT

(This manual should be read in conjunction with PUNCH BSVI Owner's Manual)

Part no. 5445 5840 9911

TATA MOTORS

REV00 / JAN-26

DRIVE MODES

Applicable drive mode are as below:

Engine	Mode 1 (default)	Mode 2
Petrol (NG TC)	SPORT (Default)	

Drive Mode	Performance
SPORT	Driver can use maximum torque from engine.

JUMP STARTING YOUR CAR

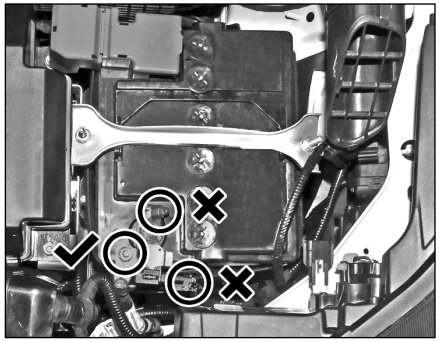
For Petrol NA & TC Non IAC Variants

Use only a battery of same rating & capacity to jump start your vehicle. Position the booster battery close to your vehicle so that the jump leads will reach both batteries.

When using a battery of another vehicle, do not let the vehicles touch. Apply the parking brake firmly and keep the gearshift lever in neutral.

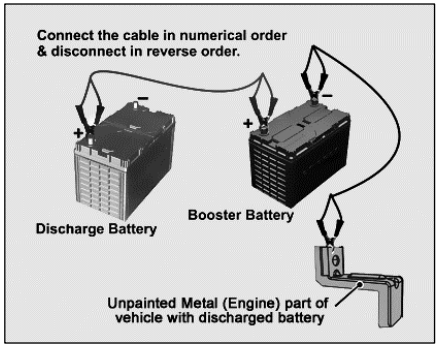
Turn off all vehicle accessories, except those necessary for safety like hazard warning lamps.

If your vehicle is equipped with Battery sensor, then do not connect your jump start cable lead directly on the Sensor surface. Connect only on the negative cable surface as shown on the image. After jump start event, IAC function will be restored only when the Vehicle is parked in idle for 3-4 Hours.



Make jump lead connections as follows:

- Connect one end of the first jump lead to the positive (+) terminal of the discharged battery.
- Connect the other end to the positive (+) terminal of the booster battery.
- Connect one end of the second jump lead to the negative (–) terminal of the booster battery.
- Make the final connection (other end of the negative terminal) to an unpainted, heavy metal part (i.e. engine mounting stud/nut) of the vehicle of discharged battery.



- Start the engine of the vehicle with the discharged battery.
- Before disconnecting the jumper cables, let the engine run for several minutes.
- If the booster battery you are using is fitted to another vehicle, start the engine of the vehicle with the booster battery. Run the engine at moderate speed.
- Remove the jump leads in the exact reverse order in which you connected them.

NOTE

Do not disconnect the discharged battery from the vehicle.

WARNING

- Do not connect the jump lead directly to the negative (–) terminal of the discharged battery. This may lead to an explosion.
- Do not allow battery electrolyte to come in contact with eyes, skin, fabrics or painted surfaces. The fluid contains acid which can cause injury and severe damage. Wear protective apparel. Do not inhale any battery gases. Keep children away from batteries. In case if battery acid comes in contact with the skin, wash it off immediately with water and seek medical attention.
- During charging and jump starting, explosive gases can escape from the battery. There is a risk of an explosion. Particularly avoid fire, open flames, creating sparks and smoking. Make sure that there is sufficient ventilation while charging and jump starting. Do not lean over the battery.
- Make sure that the positive terminal of a connected battery does not come into contact with vehicle parts. Never place metal objects or tools on a battery.
- It is important that you observe the described order of the battery terminals when connecting and disconnecting a battery. If you are in doubt, seek assistance from qualified specialist workshop.
- Do not connect or disconnect the battery terminals while the engine is running.

Do and Don't

Do

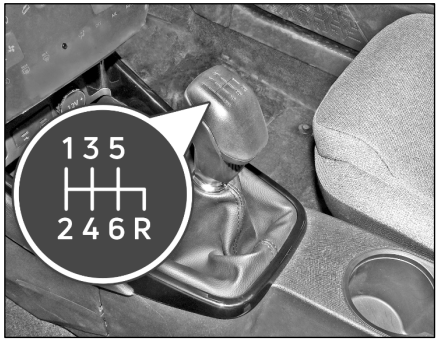
- Use only authorized Battery sensor.
- Use only authorized Battery
- Always disconnect the Battery sensor output for any service on vehicle

Don't

Do not remove the Battery sensor if it is not necessary.

- Do not mallet / hammer the Battery sensor to fix on Battery Pole.
- Do not place the Battery sensor on Positive Pole.
- Do not remove the Battery Sensor connector.

GEAR MODES (if equipped)



6 Speed Gear shifter

The gearshift pattern is shown on the gear lever knob. Always press the clutch pedal fully before shifting gears.

NOTE

- Gear recommendation is displayed when the clutch pedal is fully released.
- If “F” is displayed in DIS of instrument cluster, it means ‘Fault’ condition. Contact TATA MOTORS Authorized Dealer/Service Center.
- Press the clutch fully when gear shifting. The reverse gear should be engaged only when the vehicle is stationary.
- Use the clutch only to shift gears and do not use it when vehicle is stationary on a slope, as the car will roll down due to gravity.
- If all doors are closed when the vehicle is in ACC/IGN/RUN mode and if PEPS does not detect the smart key inside the car, then an audio warning is given.
- Do not rest your hand on the shift lever during driving; Pressure transmitted from your hand may result in premature wear of the transaxle internal gear shift mechanism.

SPARK PLUG



For NG TC Engine

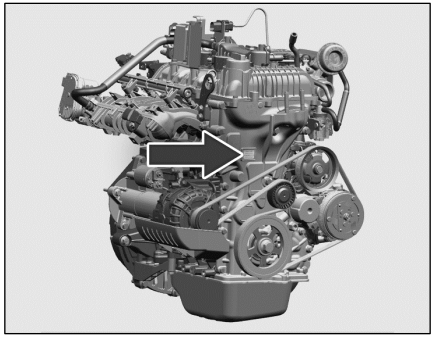
Spark Plug	Number	Gap
BOSCH	YR5ME0	0.7 to 0.8 mm

Tightening Torque - 15 to 25 Nm

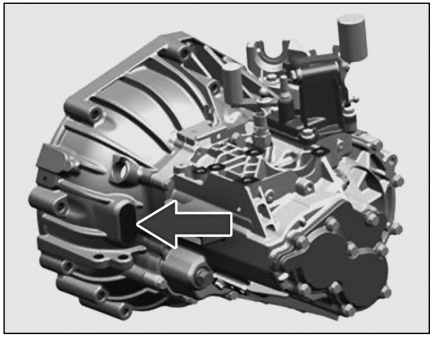
NOTE

Use spark plug of recommended make & type for replacement.

AGGREGATE IDENTIFICATION NUMBERS



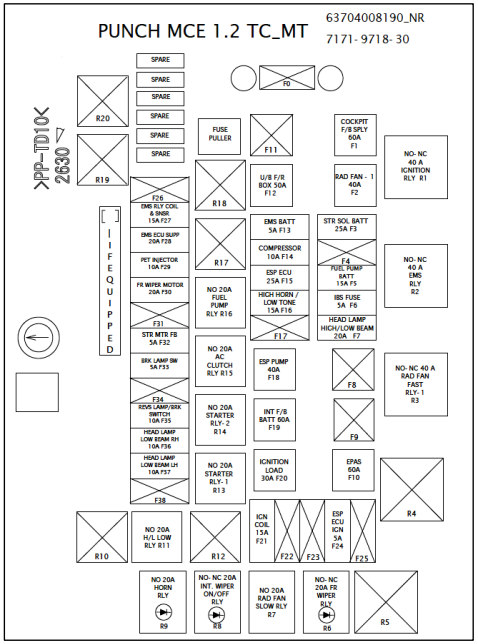
Engine No. plate Petrol (TC)



Transaxle No. Punching (TA 6300)

FUSE BOX

Engine Compartment (Under Bonnet)



NOTE: Please refer to the fuse box sticker located under the fuse box cover for more clarity.

Fuse No.	Function	Fuse Rating
F0	—	—
F1	COCKPIT F/B SUPPLY	60A
F2	RADIATOR FAN-1	40A
F3	STARTER SOLENOID BATT	25A
F4	—	–
F5	FUEL PUMP BATT	15A
F6	IBS FUSE	5A
F7	HEAD LAMP HIGH & LOW BEAM	20A
F8	—	—
F9	—	—
F10	EPAS	60A
F11	—	—
F12	UNDER BONNET F/R BOX	50A
F13	EMS BATT	5A
F14	COMPRESSOR	10A
F15	ESP ECU	25A
F16	HORN HIGH/LOW TONE	15A
F17	—	—
F18	ESP PUMP	40A
F19	INTERIOR F/B BATT	60A
F20	IGNITION LOAD	30A
F21	IGNITION COIL	15A
F22	—	—

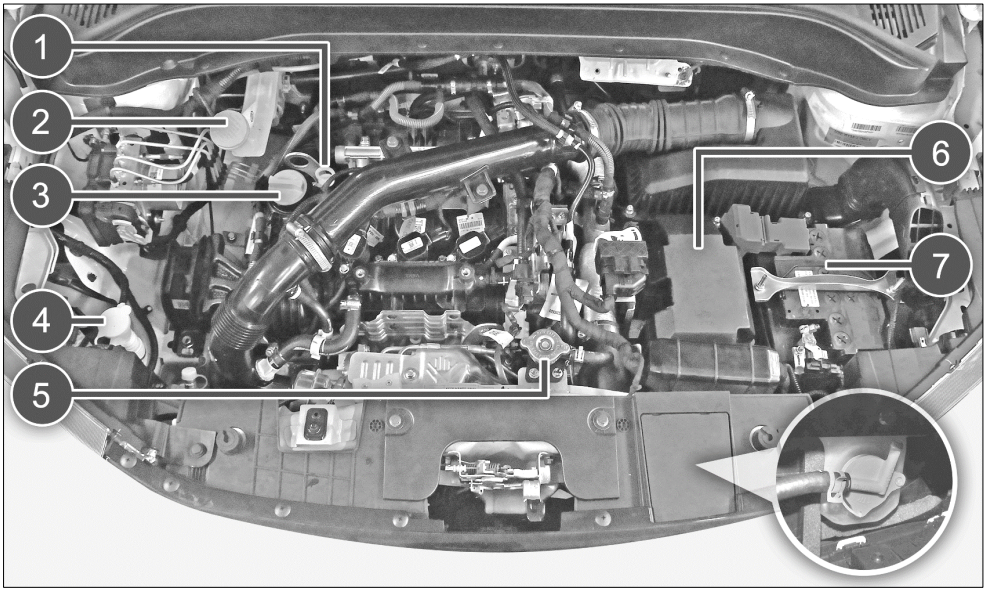
Fuse No.	Function	Fuse Rating
F23	—	—
F24	ESP ECU IGN	5A
F25	—	10A
F26	—	—
F27	EMS RELAY COILS & SENSORS	15A
F28	EMS ECU SUPPLY	20A
F29	PETROL INJECTOR	10A
F30	FRONT WIPER MOTOR	20A
F31	—	—
F32	STARTER MOTOR FEEDBACK	5A
F33	BRAKE LAMP BATT	5A
F34	—	—
F35	REVERSE LAMPS/BRAKE SWITCH	10A
F36	HEAD LAMP LOW BEAM RH	10A
F37	HEAD LAMP LOW BEAM LH	10A
F38	—	—

***if equipped**

Sr No.	Function	Rating
R1	IGNITION RELAY	40A
R2	EMS RELAY	40A
R3	RADIATOR FAN FAST RLY-1	40A
R4	—	—
R5	—	—
R6	FRONT WIPER RLY	20A
R7	RADIATOR FAN SLOW RLY	20A
R8	INT. WIPER ON/OFF RLY	20A
R9	HORN RELAY WITH DIODE	20A
R10	—	—
R11	HEAD LAMP LOW RLY	20A
R12	—	—
R13	STARTER RLY-1	20A
R14	STARTER RLY-2	20A
R15	AC CLUTCH RLY	20A
R16	FUEL PUMP RLY	20A
R17	—	—
R18	—	—
R19	—	—
R20	—	—

***if equipped**

ENGINE COMPARTMENT - PETROL (TC Engine)



1. Dipstick - Engine oil **2.** Brake fluid reservoir **3.** Engine oil filling cap **4.** Windshield washer container **5.** Radiator cap **6.** Fuse box **7.** Battery

Note: *The image shown is for reference purposes only. Please verify all specifications and components directly on the vehicle.*

ENGINE OIL LEVEL

Warm up the engine to normal operating temperature.

Turn it 'OFF' and wait for 5 minutes for the oil to return to the oil pan. Be sure the vehicle is on a level surface.

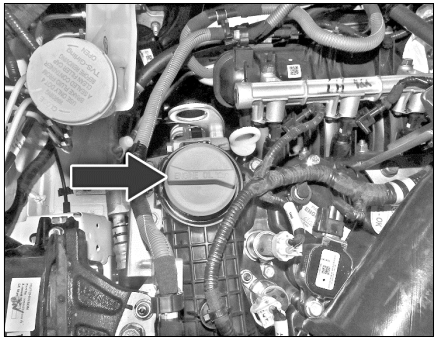
Take out the dipstick, wipe it clean, and reinsert it fully. Pull it out again and examine the oil level. It should be between 'MIN' and 'MAX' levels. If not, top up with recommended engine oil.

NOTE

- The oil consumption depends upon the driving style and the conditions under which the vehicle is used.
- Do not remove the filler cap when the engine is running.
- Do not add oil above than MAX. Mark. Oil level above MAX. Mark may cause engine damage.

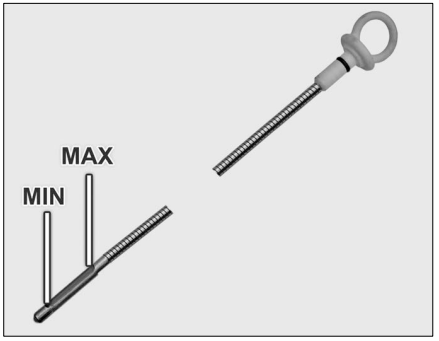
For location of Engine oil filling cap and dip stick, please refer image of the respective Engine Compartment.

Engine Oil Filling Cap



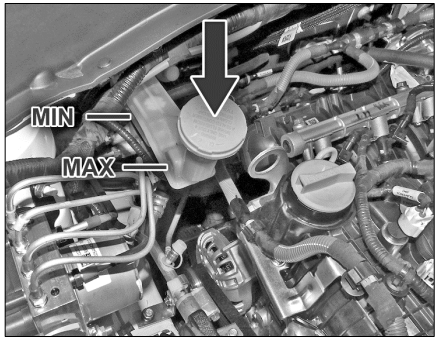
Engine Oil Dipstick Location





Dipstick (Petrol)

BRAKE FLUID LEVEL



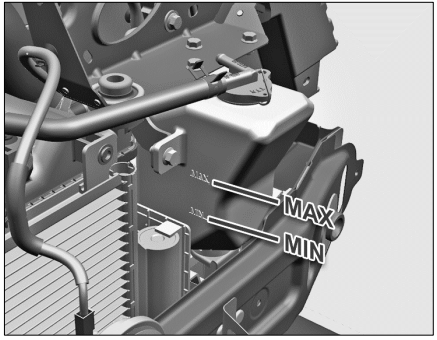
The level of the brake/clutch fluid should be between the 'MIN' and 'MAX' marks provided on the side of the brake fluid container. If the level falls below the 'MIN' mark, add recommended brake fluid.

NOTE

- Do not allow brake fluid to make contact with the skin or eyes.
- Do not allow brake fluid to splash or spill on the paint surface as it will damage the paint. In case of spillage, wipe it off immediately.

For more clarity about location of Brake/clutch Fluid Container and filling cap, please refer respective Engine Compartment.

ENGINE COOLANT LEVEL



Check whether the coolant level is between the 'MIN' and 'MAX' marks provided on the coolant reservoir.

When the coolant levels is low, top up with recommended coolant up to 'MAX' level.

Whenever coolant has been added, the coolant level in the coolant reservoir should be checked the next few times you drive the vehicle to confirm correct level.

For location of Engine coolant container and filler cap, please refer image of Engine Compartment.

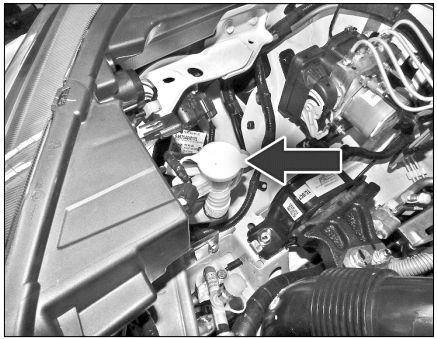
NOTE

- In case of emergency, a large amount of water without engine coolant may be added in order to reach a vehicle service location.
- Topping up of the coolant should be done in the auxiliary tank only.
- Make sure that only TATA MOTORS recommended coolant is used. Mixing of different coolants may harm your engine's cooling system and its components. Do not add extra inhibitors or additives to the coolant. These can be harmful and compromise the corrosion protection of the engine coolant.
- Use high quality ethylene glycol coolant.

WARNING

- The engine cooling system is pressurized, particularly when the engine is warm. When opening the cap, you could be scalded by hot coolant spraying out. There is a risk of injury.
- Let the engine cool down before opening the cap. Wear eye and hand protection when opening the cap. Open the cap slowly half a turn to allow pressure to escape.
- Be sure to replace or replenish your coolant in accordance with the maintenance schedule. Before winter, have your coolant tested to that its freezing point is sufficient for the temperatures anticipated during the winter.

WINDSHIELD WASHER FLUID LEVEL



Examine if there is washer fluid in the tank. Fill it if necessary. Use a good quality fluid, diluted with water as necessary.

NOTE

- Do not use detergent or any other additive in the windshield washer reservoir. This can severely impair visibility when sprayed on the windshield, and can also damage your vehicle's paint.
- Do not operate washer motor with no fluid in washer tank, washer motor will be damaged.

For location of Windshield Washer Container and filling cap, please refer image of the respective Engine Compartment.

SUPPLEMENT FOR PUNCH NGTC

SERVICE SCHEDULE

Note: 1.Vehicle operating in Severe Driving Conditions, conditions are given at the end of this schedule.

2. Beyond 150000 carry out the same services at the same intervals of 7500 kms respectively.

Periodic Maintenance Schedule		Free Service			Paid Service																	
Service Intervals In Km (kilometer) Or Months Whichever Comes Earlier	kms	1500	7500	15000	22500	30000	37500	45000	52500	60000	67500	75000	82500	90000	97500	105000	112500	120000	127500	135000	142500	150000
	Months	2	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
I: Inspect (Check, Clean, Correct, Top Up, Adjust, Repair, Replace As Necessary) T: Tightening Torque R: Replace																						
1	Clean air filter element (more frequently for vehicle operating in severe condition)	-		I		I		I		I		I		I		I		I		I		I
2	Engine oil and oil filter	-		R		R		R		R		R		R		R		R		R		R
3	Gasoline - Replace Fuel Filter	Replace Every 75,000 km / 72 Months whichever comes earlier																				
4	Change Spark plugs - Natural Aspirated Engine							I						I						I		

Periodic Maintenance Schedule		Free Service			Paid Service																		
Service Intervals In Km (kilometer) Or Months Whichever Comes Earlier	kms	1500	7500	15000	22500	30000	37500	45000	52500	60000	67500	75000	82500	90000	97500	105000	112500	120000	127500	135000	142500	150000
	Months	2	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
I: Inspect (Check, Clean, Correct, Top Up, Adjust, Repair, Replace As Necessary) T: Tightening Torque R: Replace																						
5	Replace the filler valves/receptacle O-ring																					R
6	AC & alternator belt condition			I		I		I		I		I		I		I		I		I		I
7	Air filter element	Replace Every 45000 km / 36 Months whichever comes earlier																				
8	Engine coolant	Replace Every 60,000 km / 36 Months whichever comes earlier																				

LUBRICANT SPECIFICATION

Use following genuine fluids, coolants and lubricants recommended for optimum performance of your vehicle.

Item	Specification	Company	Brand	Quantity
Engine Oil	0W20 SS 6559	Tata Motors	TMOO T-PRO 1000 FULLY SYNTHETIC OIL	3.8 litres (TC Engine)
Coolant (Premixed Antifreeze agent +Soft water 40:60 ratio)	Class II/JIS K 2234 TATA SS 7700S1	Tata Motors	TMPVL ORIGINAL COOLANTS	5 litres (TC Engine)
Transaxle oil	SAE75W70 TATA SS 6595	IOCL	Servo Syngear TM 75W-70	2.3 litres (TC Engine)

VEHICLE SPECIFICATIONS

Parameter	Petrol (TC)
Engine	
Model/type	1.2P TC REVTRN21
Capacity	1199 cc
Max. Engine output	88.2 kW @ 5500 rpm
Max. Torque	170 Nm @ 1750-4000 rpm
Transaxle	
Model	TA 6300
Type	—
No. of gears	6-Forward, 1-Reverse
Steering	
Type	Electric Power Assisted Steering with a collapsible column and speed-based assistance.
Brakes	
Brakes	Front (Disc); Rear (Drum)
Parking brake	Hand-operated (pull-to-operate) control located on the left-hand side of the driver.

Parameter	Petrol (TC)
Suspension	
Type	Front: Independent, lower wishbone, McPherson strut with coil spring and antiroll bar. Rear: Semi-independent twist beam with coil spring and shock absorber
Shock absorber	Hydraulic; gas filled
Wheels & tyre	
Tyres	Option I :195/60 R16 (Radial-Tubeless) Option II :185/70 R15 (Radial-Tubeless)
Wheel rims	Option I: 5.5J X15” Hyper style Wheel Option II: 6J X16” Alloy Wheel
Fuel tank	
Capacity	37 litres
Cab / body	
Type	Steel monologue body
Electrical system	
System voltage	12V (-ve earth)
Alternator capacity	IAC -13.5V 110A/14V 120A (MT)
Battery	52 Ah

Parameter	Petrol (TC)
Main chassis dimension (in mm)	
Wheel base	2445
Track front	1510
Track rear	1510
Overall length	3876
Max. Width without ORVM	1742
Max. Width with ORVM	1945
Ground clearance	159 mm (laden)
Performance	
Max. Speed	160 kmph
Max. Recommended gradability	15.6 deg.
Minimum Turning Circle Dia. in meter as per IS:12222	10
Minimum Turning Clearance circle dia. in meters	10.6
Weight (in kg)	
Gross vehicle weight (Laden)	1351 - 1567 (MT)
Kerb weight (unladen)	1096 - 1142 (MT)