

→ A FABER PICTURE BOOK ←



EMERGENCY VEHICLES

SIMON TYLER

This Faber book belongs to

.....

CONTENTS

POLICE CARS

Police Pursuit	4
Police Cars from Around the World	5
Police Vans and Trucks	6
Police Motorcycles	7
The Fastest Police Cars	8



FIRE ENGINES

Fire Engines from Around the World	12
Dealing with Airport Fires	14
Firefighting Aircraft	16



AMBULANCES

An Ambulance Response	20
Ambulances Around the World	21



RESCUE VEHICLES

Rescue Helicopters	24
Coastguard and Lifeboat Vessels	26
Rescue at Sea	28
Icebreakers	30
Glossary	32



KEY

- € – euros
- m – metres
- km – kilometres
- mph – miles per hour
- kt – knots
- sec – seconds
- kg – kilograms

POLICE CARS

The most common type of emergency vehicles are the cars used by police forces around the world. These come in all sorts of shapes and sizes and are used for a wide variety of jobs. Their main role is to transport police officers to the site of incidents. They are also used for general patrol duties and traffic policing, as well as high-speed pursuits and transporting suspected criminals.

Police cars are usually decorated with high-visibility paintwork and emblems. They are also marked with identifying codes,

sometimes on the roof, so they can be identified by police helicopters during highway pursuit operations. Police cars are typically equipped with flashing lights and ear-piercing sirens to warn other road users when they are being driven at high speed, or moving through busy traffic.

Police cars carry a variety of equipment, ranging from fire extinguishers and first aid kits to traffic cones and even battering rams. They are often fitted with computers connected to the police database so officers can check suspects' identification details and vehicle details.



UK Police
Audi A6 Avant Quattro
Top Speed: 155 mph
0-60 mph: 5.5 sec

POLICE PURSUIT

Tactical Pursuit and Containment (TPAC) is the name used by police in the UK for the process of stopping criminals driving vehicles. This can include using road blocks, or special spikes on the road called stingers, which puncture the vehicle's tyres. Police cars can also form a box around a vehicle to bring it to a stop. With very dangerous criminals who may be armed, police might use the Pursuit Intervention Technique (PIT) manoeuvre.

THE PIT MANOEUVRE

- 1 The police car gets into position behind the car carrying the criminals.
- 2 When there is a clear, straight section of road, the police car moves alongside the rear of the criminal's car. It then bumps into the side of the other car, and steers sharply against it.
- 3 The force of this causes the criminal's car to lose control and spin to the side of the road.

THE LONGEST POLICE CHASE

In 2002 a group of criminals stole €200,000 from a bank in Wrestedt, Germany. They escaped in a car with hostages and made their getaway. They were pursued by up to twenty police cars, as well as helicopters.

The robbers crossed the border into Poland and continued into Ukraine, where they were finally stopped.

The pursuit had lasted more than twenty-four hours, and covered over 620 miles (1,000 km), making it the longest ever recorded.



1



2



3



POLICE CARS FROM AROUND THE WORLD

Police forces around the world use a diverse assortment of vehicles. City police forces often use small, nimble cars within towns and city centres, whereas highway police prefer larger, more powerful cars that can pursue criminals at high speed. In countries with lots of unmade or bumpy roads, the police forces often use off-road vehicles with four-wheel drive.

Most police vehicles still run on petrol or diesel, as these have the greatest range and can be refuelled quickly. However, electric police cars are beginning to emerge, such as the REVAi used by the Indian police in the city of Chandigarh. Compact police cars like the Reva are particularly beneficial in the tight and congested streets typically found in Indian cities.



UK Police
Top Speed: 155 mph
Jaguar XF 0-60 mph: 6.4 sec



Dutch National Police Corps
VW Touran 2.0
Top Speed: 129 mph
0-60 mph: 9.3 sec



Chinese Public Security Bureau
Daihatsu Terios
Top Speed: 94 mph
0-60 mph: 16.1 sec

Israeli Police
Kia Sorrento EX V6
Top Speed: 143 mph
0-60 mph: 6.7 sec



Swiss Police
BMW 5 Series
Top Speed: 155 mph
0-60 mph: 6.3 sec



Mexican Municipal Police
Dodge Drazo
Top Speed: 116 mph
0-60 mph: 11.1 sec



Swedish Police Authority
Saab 9-5 Aero 2.3T
Top Speed: 140 mph
0-60 mph: 8.7 sec

German Federal Police
BMW 318d
Top Speed: 137 mph
0-60 mph: 8.2 sec



Japanese Police Department
Toyota Crown
Top Speed: 136 mph
0-60 mph: 7.2 sec



Indonesian National Police
Mazda 6
Top Speed: 138 mph
0-60 mph: 8.1 sec



Indian Police Service
Reva REVAi
Top Speed: 50 mph
0-50 mph: 18.0 sec

Cuban National Revolutionary Police Force
Lada 2107
Top Speed: 94 mph
0-60 mph: 17.0 sec



POLICE VANS AND TRUCKS

As well as cars, police forces also use other vehicles such as vans and trucks. Vans are used for transporting police dogs, delivering teams of police officers to an incident, or transporting groups of suspects who have been arrested.

Many police forces use pickup trucks, which are useful for carrying bulky equipment. Because pickup trucks are tough and reliable, they are often used as the main police vehicles in countries with less-developed road networks, such as Afghanistan.

Many police forces have specialised units which deal with dangerous armed criminals, terrorists or hostage situations. The units often use special armoured vehicles which allow them to rescue civilians or emergency officers who are at risk from gunfire, or to deliver teams of armed police into dangerous situations. These vehicles would have armoured glass as standard, to protect against bullets and explosions. Tyres and suspension would be upgraded to deal with the weight of armour and also to deal with obstacles or barricades, and the engines and gearbox enhanced to allow powerful towing or ramming.



UK Police
Ford Transit Connect
Top Speed: 103 mph
0-60 mph: 13.0 sec



Afghan National Police
Ford Ranger
Top Speed: 109 mph
0-60 mph: 10.6 sec



New York Police Department, USA
Lenco BearCat
Top Speed: 90 mph
0-60 mph: 16.0 sec

POLICE MOTORCYCLES

Because of their compact size and manoeuvrability, motorcycles are particularly well suited for police duties. Police forces often use them for certain traffic roles, as they are able to cut through busy traffic that could slow down a police car.

One of the most important roles for police motorcycles is escorting other vehicles. This could involve blockading junctions in front of a car carrying a head of state or other VIP, to ensure that the car doesn't have to stop. This ensures the passengers' safety.

They might also be used to escort dangerous criminals being taken to jail, or during the transportation of hazardous goods, such as nuclear fuel.

Police motorcycles are typically decorated in similar livery to police cars, with prominent emblems, identification codes and high-visibility paintwork. They also have bright flashing lights and sirens.

Police motorcycle riders usually have radio communication systems attached inside their helmets which allows them to communicate with other officers while they are on the move.

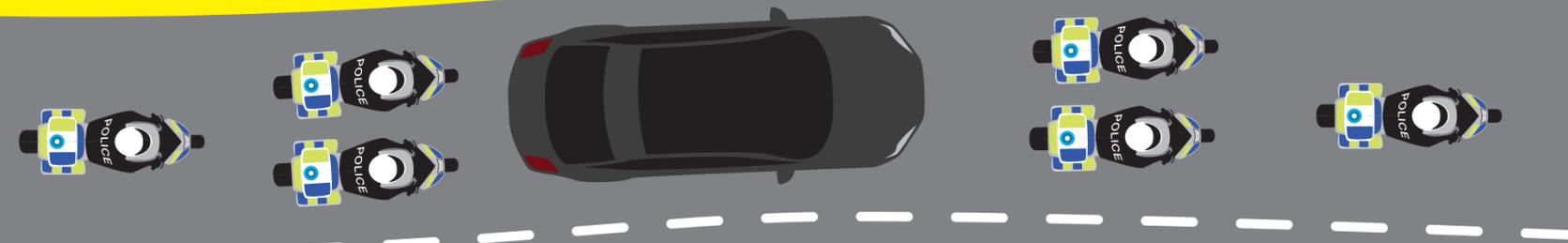


US Police Department
Zero MMX Electric Motorcycle
Top Speed: 85 mph
0-60 mph: 4.4 sec

MOTORCYCLE ESCORT

Police motorcycles make very effective escort vehicles because they can rapidly catch up and pass the larger vehicle that they're escorting. In the diagram below, the motorcycle in front can speed up and block a junction ahead to allow the VIP vehicle to cross without stopping at traffic lights. The bike would remain at the junction until the other vehicles

have passed, and then accelerate to rejoin the convoy. In the meantime, one of the motorcycles behind the VIP vehicle would move up to the front to replace the stationary bike. This cycle of pulling ahead, stopping and then rejoining the convoy allows the VIP vehicle to progress safely with a relatively small team of motorcycles.



Most police forces use large, powerful petrol-powered motorcycles because of their high speed and the lengthy distance they can cover on a tank of fuel. However, some countries are introducing electric motorcycles, which are stealthily quiet, cheap to run and have a much lower environmental impact.



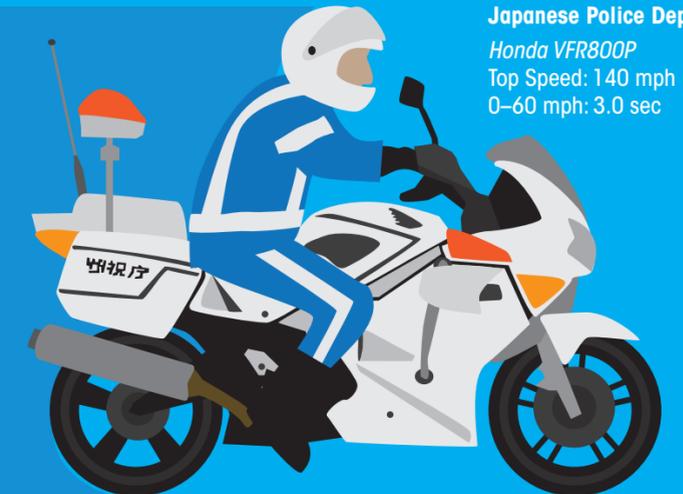
Colombian National Police
Suzuki V-Strom 650
Top Speed: 125 mph
0-60 mph: 3.5 sec



Danish Police
Yamaha FJR1300
Top Speed: 124 mph
0-60 mph: 3.2 sec



UK Police
BMW R1200RT-P
Top Speed: 130 mph
0-60 mph: 3.7 sec



Japanese Police Department
Honda VFR800P
Top Speed: 140 mph
0-60 mph: 3.0 sec



Italian State Police
Ducati Multistrada 1200
Top Speed: 145 mph
0-60 mph: 2.8 sec