



# RACECARD

## 2019 MICHELIN



# 2019 RALLYRACC CATALUNYA COSTA DAURADA - RALLY DE ESPAÑA

**OCTOBER**  
**24»27**  
SALOU (SPAIN)

**55<sup>th</sup> RUNNING**

Organised by Reial Automóbil Club de Catalunya (RACC)

ROUND 13  
2019 FIA WORLD RALLY CHAMPIONSHIP

**64 ENTRIES**

**TOTAL DISTANCE:**

**1,288.85KM**

including 325.56km  
divided into 17 special stages



**TIMETABLE**

### THURSDAY, OCTOBER 24

9:01am		Shakedown	2.00km
7:00pm		Start ceremony, Salou	

### FRIDAY, OCTOBER 25 (129.70KM)

8:00am		Start, PortAventura	
9:23am	SS1	Gandesa 1	7.00km
10:03am	SS2	Horta-Bot 1	19.00km
11:13am	SS3	La Fatarella-Vilalba 1	38.85km
1:23pm		Service/Tyre change, PortAventura	40 minutes
3:26pm	SS4	Gandesa 2	7.00km
4:06pm	SS5	Horta-Bot 2	19.00km
5:16pm	SS6	La Fatarella-Vilalba 2	38.85km
7:51pm		Service, PortAventura	75 minutes

### SATURDAY, OCTOBER 26 (121.72KM)

7:30am		Service/Tyre change, PortAventura	15 minutes
9:00am	SS7	Savallà 1	14.08km
9:41am	SS8	Querol 1	21.26km
10:38am	SS9	El Montmell 1	24.40km
12:10am		Service/Tyre change, PortAventura	40 minutes
2:01pm	SS10	Savallà 2	14.08km
2:42pm	SS11	Querol 2	21.26km
3:38pm	SS12	El Montmell 2	24.40km
5:30pm	SS13	Salou	2.24km
6:00pm		Service/Tyre change, PortAventura	45 minutes

### SUNDAY, OCTOBER 27 (74.14KM)

6:45am		Service/Tyre change, PortAventura	15 minutes
7:41am	SS14	Riudecanyes 1	16.35km
8:38am	SS15	La Mussara 1	20.72km
9:48am		Service/Tyre change, PortAventura	30 minutes
10:54am	SS16	Riudecanyes 2	16.35km
12:18pm	SS17	La Mussara 2 (Power Stage)	20.72km
1:41pm		Service, PortAventura	10 minutes
2:00pm		Podium ceremony, Salou	

LOCAL TIME - SOURCE: WRC.COM - INFORMATION SUBJECT TO CHANGE





**“THIS COULD WELL BE THE LAST MIXED-SURFACE WRC ROUND WE SEE FOR SOME TIME “**

**ARNAUD RÉMY**

**WRC Programme Manager,  
Michelin Motorsport**

“Calendar changes and a desire to make this an all-asphalt rally in the future mean this could well be the last mixed-surface WRC round we see for some time. It’s always a complex exercise for our logistics people because we need to transport and manage more than 1,500 tyres divided into five different types. Our technicians also need to reboot after Friday’s gravel stages and find their marks again to get choices right for Saturday and Sunday’s abrasive asphalt roads. This year’s menu for Saturday is identical to 2018, with visits to three classics – Savallà, Querol and El Montmell – while Sunday sees the return of La Mussara which hasn’t been used since 2014.”

## MICHELIN'S TYRES FOR THE 2019 RALLYRACC CATALUNYA



## MICHELIN AND RALLYRACC CATALUNYA



Michelin has won RallyRACC Catalunya 18 times as a WRC round

Michelin has won with six different carmakers

In 2016, Michelin claimed its 300<sup>th</sup> WRC win in Catalonia

Michelin has won 366 of the 417 RallyRACC Catalunya stages contested since 199

<b>WRC</b>	<b>GRAVEL (LEG 1) MICHELIN LTX FORCE</b>	<b>ASPHALT (LEGS 2 AND 3) MICHELIN PILOT SPORT</b>
	<p>✓ <b>QUOTA:</b> 16 tyres from an overall allocation of 16 H4s and 10 M6s</p>	<p>✓ <b>QUOTA:</b> 20 tyres from an overall allocation of 20 H5s, 12 S6s and 8 FW3s</p>
<b>WRC2</b>	<b>GRAVEL (LEG 1) MICHELIN LATITUDE CROSS H90 (HARD) AND M80 (MEDIUM)</b>	<b>ASPHALT (LEGS 2 AND 3) MICHELIN PILOT SPORT R H3 (HARD), S (SOFT) AND FW3 (RAIN)</b>
	<p>✓ <b>QUOTA:</b> 14 tyres from an overall allocation of 14 H90s and 10 M80s</p>	<p>✓ <b>QUOTA:</b> 18 tyres from an overall allocation of 18 H3s, 12 Ss and 8 FW3s</p>

## MICHELIN'S RALLYRACC CATALUNYA WINS (AS A WRC ROUND)

Year	Carmaker	Year	Carmaker	Year	Carmaker	Year	Carmaker
1993	Delecour/Grataloup Ford Escort RS Cosworth	2000	McRae/Grist Ford Focus RS WRC	2005	Loeb/Elena Citroën Xsara WRC	2015	Mikkelsen/Floene Volkswagen Polo R WRC
1997	Mäkinen/ Mannisenmäki Mitsubishi Lancer Evo IV	2001	Auriol/Giraudet Peugeot 206 WRC	2011	Loeb/Elena Citroën DS3 WRC	2016	Ogier/Ingrassia Volkswagen Polo R WRC
1998	Auriol/Giraudet Toyota Corolla WRC	2002	Panizzi/Panizzi Peugeot 206 WRC	2012	Loeb/Elena Citroën DS3 WRC	2017	Meeke/Nagle Citroën C3 WRC
1999	Bugalski/Chiaroni Citroën Xsara Kit/Car	2003	Panizzi/Panizzi Peugeot 206 WRC	2013	Ogier/Ingrassia Volkswagen Polo R WRC	2018	Loeb/Elena Citroën C3 WRC
		2004	Märtin/Park Ford Focus RS WRC	2014	Ogier/Ingrassia Volkswagen Polo R WRC		



## FORMAT

The championship's only mixed-surface round (dirt/asphalt)

Leg 1: 91% dirt

Legs 2 and 3: 100% asphalt

The gravel stages tend to be narrow, twisty and littered with small stones and gravel



The circuit-type asphalt stages are essentially wide and fast

The 2019 format is almost identical to that of 2018

No super-special in Barcelona this year

## STAGES

Crews will tackle the mixed-surface Shakedown on gravel tyres

Gandesa (SS1/4) is identical to 2018

Horta-Bot (SS2/5) is the Pesells stage from 2018

La Fatarella-Vilalba (SS3/6) is a mixed-surface stage (83% dirt/17% asphalt) and is identical to 2018

Savallà (SS7/10), Querol (SS8/11), El Montmell (SS9/12), Riudecanyes (SS14/16) are all identical to 2018

The Salou super-special (SS13) runs along the resort's seafront

La Mussara (SS15/17) is being run in the opposite direction to 2014

## RALLYRACC CATALUNYA TRIVIA



The seaside resort of Salou has hosted the RallyRACC every year since 2005

Inaugurated in 1995, PortAventura is Europe's third-biggest theme park

The first day visits gravel stages near Rio Ebro, Spain's most powerful river

Day 2's stages take place near the UNESCO-listed city of Tarragona

## MICHELIN GREEN GUIDE

Discover the myriad treasures of Spain with the Michelin Green Guide Spain.



**CLICK HERE TO WATCH OUR LATEST RALLYRACC CATALUNYA VIDEOS**



# THE 2018 EVENT



**WINNERS:**  
Sébastien Loeb/Daniel Elena  
(Citroën C3 WRC 🇫🇷)

**STAGE WINNERS:**  
Tänak and Latvala (4), Loeb  
(3), Ogier and Neuville (2),  
Mikkelsen and Sordo (1)

**RALLY LEADERS:**  
Ogier (SS1-SS2), Tänak (SS3-  
SS9), Sordo (SS10), Latvala  
(SS11-SS14), Loeb (SS15-SS18)

- ✓ Loeb/Elena's 79th WRC win, more than five years after their previous world-class victory
- ✓ Second place put Ogier back on top of the provisional Drivers' standings
- ✓ Evans clinched third from Neuville by half-a-second on the last stage
- ✓ Tyre choice was complicated by rain on Day 2 and by damp conditions on Day 3



## THE RALLYRACC CATALUNYA

The RallyRACC Catalunya first appeared on the WRC calendar in 1991  
Since 2010, the RallyRACC Catalunya has been the championship's only  
mixed-surface round

The mechanics have 75 minutes on Friday evening to convert the cars  
from gravel- to asphalt-specification

**French drivers have won the RallyRACC Catalunya 18 times  
as a WRC round (out of 28)**

Citroën has won the RallyRACC Catalunya 11 times, including 9 times  
(a record) with Sébastien Loeb

Sébastien Loeb made his WRC debut on the 1999 RallyRACC Catalunya  
with Michelin

The RallyRACC Catalunya is the fifth and last Mediterranean-rim round  
of the 2019 FIA WRC

The RallyRACC Catalunya will not be a round of the FIA WRC in 2020

## DOWN MEMORY LANE



# 1999

**It was on the 1999 Rallye Catalunya-Costa Brava that Citroën and Michelin claimed their first WRC victory together, thanks to the Xsara Kit-Car shared by Philippe Bugalski/Jean-Paul Chiaroni. The same event saw the world-class debut of Loeb/Elena in a Citroën Saxo/Michelin.**

In 1999, Spain's round of the World Rally Championship was held in April when Citroën sprung a huge surprise by beating all the four-wheel drive World Rally Cars to score its maiden WRC success with the Xsara Kit-Car.

In dry conditions, Spanish champion Jesus Puras and French champion Philippe Bugalski took advantage of the low weight and agility of their two-litre, two-wheel drive car to dominate the 55th running of the event.

Puras completed Day 1 in front but his car failed to start in parc ferme the following morning. This handed top spot to Bugalski who shrugged off pressure from Didier Auriol (Toyota Corolla WRC/Michelin) to take the win.

Meanwhile, a French youngster by the name of Sébastien Loeb made his first world championship appearance behind the wheel of a Michelin-equipped Citroën Saxo...



# ENTRY LIST

## CITROËN-TOTAL WRT Citroën C3 WRC

**#1**  **Sébastien Ogier** (FRA)  
Race starts 148 - Wins 47 - Podiums 79

 **Julien Ingrassia** (FRA)  
Race starts 148 - Wins 47 - Podiums 79

 Champions 2013, 2014, 2015, 2016, 2017, 2018

**#4**  **Esapekka Lappi** (FIN)  
Race starts 54 - Win 1 - Podiums 7

 **Janne Ferm** (FIN)  
Race starts 54 - Win 1 - Podiums 7

## HYUNDAI SHELL MOBIS WRT Hyundai i20 Coupé WRC

**#11**  **Thierry Neuville** (BEL)  
Race starts 109 - Wins 11 - Podiums 39

 **Nicolas Gilsoul** (BEL)  
Race starts 105 - Wins 11 - Podiums 39

**#6**  **Dani Sordo** (ESP)  
Race starts 166 - Wins 2 - Podiums 45

 **Carlos del Barrio** (ESP)  
Race starts 92 - Wins 2 - Podiums 10

**#19**  **Sébastien Loeb** (FRA)  
Race starts 177 - Wins 79 - Podiums 118

 **Daniel Elena** (MCO)  
Race starts 177 - Wins 79 - Podiums 118

 Champions 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012

## TOYOTA GAZOO RACING WRT Toyota Yaris WRC

**#5**  **Kris Meeke** (GBR)  
Race starts 103 - Wins 5 - Podiums 13

 **Sebastian Marshall** (GBR)  
Race starts 59 - Win 0 - Podiums 5

**#8**  **Ott Tänak** (EST)  
Race starts 104 - Wins 12 - Podiums 25

 **Martin Järveoja** (EST)  
Race starts 75 - Wins 12 - Podiums 21

**#10**  **Jari-Matti Latvala** (FIN)  
Race starts 207 - Wins 18 - Podiums 67

 **Miikka Anttila** (FIN)  
Race starts 218 - Wins 18 - Podiums 67

## M-SPORT FORD WRT Ford Fiesta RS WRC

**#3**  **Teemu Suninen** (FIN)  
Race starts 52 - Win 0 - Podiums 2

 **Jarmo Lehtinen** (FIN)  
Race starts 174 - Wins 15 - Podiums 70

**#33**  **Elfyn Evans** (GBR)  
Race starts 85 - Win 1 - Podiums 9

 **Scott Martin** (GBR)  
Race starts 129 - Win 0 - Podiums 4

## TOMMI MAKINEN RACING Toyota Yaris WRC

**#17**  **Takamoto Katsuta** (JPN)  
Race starts 22 - Win 0 - Podium 0

 **Daniel Barritt** (GBR)  
Race starts 124 - Win 1 - Podiums 7



**COMPLETE  
ENTRY LIST  
HERE**



# WRC DRIVERS' STANDINGS

		 Monte-Carlo 24/01 > 27/01	 Sweden 14/02 > 17/02	 Mexico 7/03 > 10/03	 France 28/03 > 31/03	 Argentina 25/04 > 28/04	 Chile 9/05 > 12/05	 Portugal 30/05 > 02/06	 Italy 7/06 > 10/06	 Finland 26/07 > 29/07	 Germany 16/08 > 19/08	 Turkey 13/09 > 16/09	 Great Britain 4/10 > 7/10	 Spain 25/10 > 28/10	 Australia 15/11 > 18/11	TOTAL
<b>1</b>	<b>Ott TÄNAK</b> 	15 + 2 <b>(3)</b>	25 + 5 <b>(1)</b>	18 <b>(2)</b>	8 + 4 <b>(6)</b>	4 + 1 <b>(8)</b>	25 + 5 <b>(1)</b>	25 + 3 <b>(1)</b>	10 <b>(5)</b>	25 + 5 <b>(1)</b>	25 <b>(1)</b>	0 + 5 <b>(16)</b>	25 + 5 <b>(1)</b>			<b>240</b>
<b>2</b>	<b>Sébastien OGIER</b> 	25 + 4 <b>(1)</b>	0 + 2 <b>(11)</b>	25 + 5 <b>(1)</b>	18 + 1 <b>(2)</b>	15 + 5 <b>(3)</b>	18 + 4 <b>(2)</b>	15 + 5 <b>(3)</b>	0 + 4 <b>(41)</b>	10 + 2 <b>(5)</b>	6 + 1 <b>(7)</b>	25 + 3 <b>(1)</b>	15 + 4 <b>(3)</b>			<b>212</b>
<b>3</b>	<b>Thierry NEUVILLE</b> 	18 + 3 <b>(2)</b>	15 + 4 <b>(3)</b>	12 + 3 <b>(4)</b>	25 + 2 <b>(1)</b>	25 + 3 <b>(1)</b>	0 <b>(R)</b>	18 + 4 <b>(2)</b>	8 + 3 <b>(6)</b>	8 + 4 <b>(6)</b>	12 + 5 <b>(4)</b>	4 + 4 <b>(8)</b>	18 + 1 <b>(2)</b>			<b>199</b>
<b>4</b>	<b>Andreas MIKKELSEN</b> 	0 <b>(R)</b>	12 <b>(4)</b>	0 <b>(R)</b>	- <b>(-)</b>	18 <b>(2)</b>	6 <b>(7)</b>	- <b>(-)</b>	15 + 5 <b>(3)</b>	12 + 3 <b>(4)</b>	8 <b>(6)</b>	15 <b>(3)</b>	8 <b>(6)</b>			<b>102</b>
<b>5</b>	<b>Kris MEEKE</b> 	8 + 5 <b>(6)</b>	8 <b>(6)</b>	10 + 4 <b>(5)</b>	2 + 5 <b>(9)</b>	12 <b>(4)</b>	1 + 1 <b>(10)</b>	0 <b>(R)</b>	4 <b>(8)</b>	0 <b>(R)</b>	18 + 2 <b>(2)</b>	6 <b>(7)</b>	12 <b>(4)</b>			<b>98</b>
<b>6</b>	<b>Elfyn EVANS</b> 	0 <b>(R)</b>	10 + 3 <b>(5)</b>	15 <b>(3)</b>	15 <b>(3)</b>	0 <b>(R)</b>	12 <b>(4)</b>	10 <b>(5)</b>	12 + 1 <b>(4)</b>	- <b>(-)</b>	- <b>(-)</b>	D <b>(D)</b>	10 + 2 <b>(5)</b>			<b>90</b>
<b>7</b>	<b>Jari-Matti LATVALA</b> 	10 <b>(5)</b>	0 <b>(21)</b>	4 <b>(8)</b>	1 <b>(10)</b>	10 + 4 <b>(5)</b>	0 + 3 <b>(11)</b>	6 <b>(7)</b>	0 + 2 <b>(19)</b>	15 + 1 <b>(3)</b>	15 + 3 <b>(3)</b>	8 + 2 <b>(6)</b>	0 <b>(R)</b>			<b>84</b>
<b>8</b>	<b>Esapekka LAPPI</b> 	0 <b>(R)</b>	18 + 1 <b>(2)</b>	0 + 1 <b>(13)</b>	6 <b>(7)</b>	0 <b>(R)</b>	8 <b>(6)</b>	0 <b>(R)</b>	6 <b>(7)</b>	18 <b>(2)</b>	4 <b>(8)</b>	18 <b>(2)</b>	0 + 3 <b>(14)</b>			<b>83</b>
<b>9</b>	<b>Teemu SUNINEN</b> 	0 + 1 <b>(11)</b>	0 <b>(23)</b>	0 <b>(R)</b>	10 + 3 <b>(5)</b>	6 <b>(7)</b>	10 <b>(5)</b>	12 + 2 <b>(4)</b>	18 <b>(2)</b>	4 <b>(8)</b>	0 + 4 <b>(29)</b>	12 + 1 <b>(4)</b>	0 <b>(R)</b>			<b>83</b>
<b>10</b>	<b>Dani SORDO</b> 	- <b>(-)</b>	- <b>(-)</b>	2 + 2 <b>(9)</b>	12 <b>(4)</b>	8 + 2 <b>(6)</b>	- <b>(-)</b>	0 + 1 <b>(23)</b>	25 <b>(1)</b>	- <b>(-)</b>	10 <b>(5)</b>	10 <b>(5)</b>	- <b>(-)</b>			<b>72</b>
<b>11</b>	<b>Sébastien LOEB</b> 	12 <b>(4)</b>	6 <b>(7)</b>	- <b>(-)</b>	4 <b>(8)</b>	- <b>(-)</b>	15 + 2 <b>(3)</b>	0 <b>(R)</b>	- <b>(-)</b>	- <b>(-)</b>	- <b>(-)</b>	- <b>(-)</b>	- <b>(-)</b>			<b>39</b>
<b>12</b>	<b>Kalle ROVANPERÄ</b> 	- <b>(-)</b>	- <b>(-)</b>	- <b>(-)</b>	- <b>(-)</b>	- <b>(-)</b>	4 <b>(8)</b>	8 <b>(6)</b>	2 <b>(9)</b>	2 <b>(9)</b>	- <b>(-)</b>	- <b>(-)</b>	2 <b>(9)</b>			<b>18</b>

## MANUFACTURERS

<b>1</b>	Hyundai Shell Mobis WRT	<b>340 pts</b>
<b>2</b>	Toyota Gazoo Racing WRT	<b>332 pts</b>
<b>3</b>	Citroën Total WRT	<b>278 pts</b>
<b>4</b>	M-Sport Ford World Rally Team WRT	<b>200 pts</b>

## WRC2 PRO DRIVERS

<b>1</b>	Kalle ROVANPERÄ 	<b>176 pts</b>
<b>2</b>	Gus GREENSMITH 	<b>125 pts</b>
<b>3</b>	Mads OSTBERG 	<b>120 pts</b>
<b>4</b>	Jan KOPECKY 	<b>97 pts</b>
<b>5</b>	Lukasz PIENIAZEK 	<b>74 pts</b>

## WRC2 DRIVERS

<b>1</b>	Pierre-Louis LOUBET 	<b>81 pts</b>
<b>2</b>	Benito GUERRA 	<b>75 pts</b>
<b>3</b>	Kajetan KAJETANOWICZ 	<b>73 pts</b>
<b>4</b>	Nicolay GRYAZIN 	<b>73 pts</b>
<b>5</b>	Marco BULACIA 	<b>60 pts</b>

## THE 2019 WRC REGULATIONS

### START ORDERS

Day 1 in 2019 Drivers' championship order, then reverse order of overnight classification

### MANUFACTURERS CAN NOMINATE UP TO THREE CARS

with the two best-placed cars to score Manufacturer points.

### POINTS

1<sup>st</sup>, 25 points • 2<sup>nd</sup>, 18 points • 3<sup>rd</sup>, 15 points • 4<sup>th</sup>, 12 points  
5<sup>th</sup>, 10 points • 6<sup>th</sup>, 8 points • 7<sup>th</sup>, 6 points • 8<sup>th</sup>, 4 points  
9<sup>th</sup>, 2 points • 10<sup>th</sup>, 1 point

### POWER STAGE POINTS

1<sup>st</sup>, 5 points • 2<sup>nd</sup>, 4 points • 3<sup>rd</sup>, 3 points • 4<sup>th</sup>, 2 points  
5<sup>th</sup>, 1 point.



# MICHELIN'S WRC RANGE 2019 SEASON

## ASPHALT TYRES: MICHELIN PILOT SPORT



**H5 (HARD COMPOUND)**

Size: 20/65-18  
Conditions: dry stages



**S6 (SOFT COMPOUND)**

Size: 20/65-18  
Conditions: wet, cold conditions



**SS6 (SUPER SOFT COMPOUND)**

Size: 20/65-18  
Conditions: icy, frosty, damp, cold conditions



**FW3 (FULL WET)**

Size: 18/65-18  
Conditions: showers, standing water or heavy rain

## WINTRY ASPHALT: MICHELIN PILOT ALPIN A4



**NON-STUDED**



**STUDED**

Size: 18/65-18  
Conditions: ice and/or snow

## GRAVEL TYRES: MICHELIN LTX FORCE



**H4 (HARD)**

Size: 17/65-15  
Conditions: rough, rocky, abrasive surfaces

**M6 (MEDIUM)**

Size: 17/65-15  
Conditions: smooth, loose surfaces, mud

**S6 (SOFT)**

Size: 17/65-15  
Conditions: wet, muddy, cold conditions

## SNOW/ICE TYRE: MICHELIN X-ICE NORTH



**X-ICE NORTH 3**

Size: 15/65-15  
Conditions: ice and/or snow

## WRC TYRE REGULATIONS

- ✓ The FIA has registered two different tyre manufacturers for the 2019 WRC: Michelin and Pirelli
- ✓ Car manufacturers must register the tyre brand they have chosen with the FIA
- ✓ Only moulded tyres are authorised
- ✓ Tyres must be identifiable by a barcode and RFID chip
- ✓ Re-cutting or otherwise modifying the tread pattern is not permitted
- ✓ Only marked tyres are allowed to be used on stages
- ✓ Tyre pre-heating systems are prohibited
- ✓ Cars may carry up to two spares
- ✓ Tyres may only be inflated using air
- ✓ Only one type of dry-weather asphalt tyre (construction + pattern) and two compound options are authorised for the season (a third compound option is allowed for the Rallye Monte-Carlo)
- ✓ Just one type of asphalt rain tyre is authorised
- ✓ Only one type of gravel tyre (construction + tread pattern) and three compound options are authorised for the season (choice of two compounds per event)
- ✓ A single type of snow/ice tyre (one compound only) to be fitted to 7x15-inch rims
- ✓ A single 'joker' change is allowed per manufacturer in the course of the season
- ✓ Tyre quotas per event for Priority 1 drivers are calculated on the basis of four tyres per tyre-change opportunity plus four spares

# DO YOU SPEAK RALLY?

## Special stage (SS)

Special stages (or just 'stages') take place on roads or tracks which are closed to traffic and made secure for competitors and spectators. The length of these timed tests – which can take place in daylight or at night – tend to vary from five to up to 80 kilometres.

## Super-special

This is a short stage generally organised in a town centre, especially for spectators. The intention is to take the sport to a wider audience and to organise promotional events at the same time. The times recorded count towards the official results.



## Power Stage

On every round of the WRC, the last stage of every rally is known as the Power Stage. The drivers who post the five fastest times on this test are awarded five, four, three, two and one bonus points respectively. The stages are timed to the closest 1,000th of a second.

## Road section

Road sections are the itinerary that crews must follow to get to the different stages. These roads are open to other users and competitors must comply with local traffic legislation at all times. Road sections must be covered in a time specified by the organisers. Penalties are incurred for late or early arrival at the next time control. The penalty for late arrival is 10 seconds per minute and the penalty for early arrival is one minute per minute.



## Service park

The service park (or service area) is a place where work is permitted on the cars, including tyre changes. The time spent in a service park can vary from 15 to 45 minutes.



## Regroup

'Regroups' are holding zones which enable the organisers to include a pause in the timetable, before a service halt, for example, or between two loops of stages. Work on the cars is not permitted.

## Parc ferme

This is the zone where competing cars park up before the start of a rally and at the end of each leg. Work on the cars is not permitted.

## Time controls (TC)

Crews must have their timecard stamped by marshals before and after each stage, as well as into and out of service areas and regroupings. These mandatory passage controls ensure that competitors comply with the official timetable.



## Shakedown

A shakedown test is organised ahead of all WRC events using a short section of a sample road. This test usually takes place on the Thursday morning before the start. Each priority driver must complete at least three passes. Should the car suffer damage or break down during this test, crews can still take part in the event if repairs are completed in time.



## Road book

An official road book is given to all competitors before the start of 'recce'. It provides a detailed description of the itinerary in the form of detailed illustrations of junctions, etc. A competitor who doesn't follow the road book may be disqualified.



## Recce

Recce involves driving over the special stages at slow speed at the wheel of road cars ahead of the rally, the aim being to take turn-by-turn pace notes. Only two passes through each stage are authorised.

## Course cars ('triple zero', 'double zero' and 'zero')

Course cars are safety cars which cover the stages before the competitors. Their mission is to warn spectators of the imminent arrival of the cars. Course cars bear the numbers '000', '00' and '0' on their doors. They pass between 30 and five minutes before the due time of the first competitor.

