

TOMY[®]
AFX
THE REAL RACE SYSTEM

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THE COMPLETE DRIVERS GUIDE




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TOMY AFX

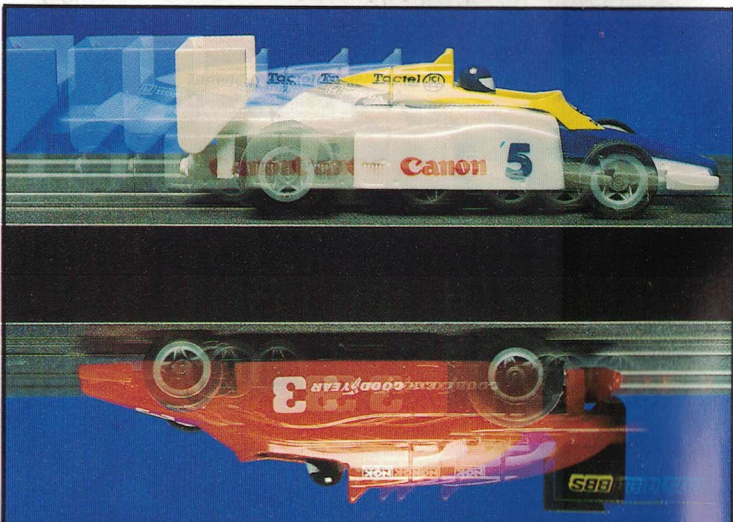
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You're fully covered with the Tomy AFX One Year Warranty! All sets carry the "Laurel Wreath" symbol — this means that should any major component develop manufacturing faults, Tomy guarantee to quickly repair or replace that component.

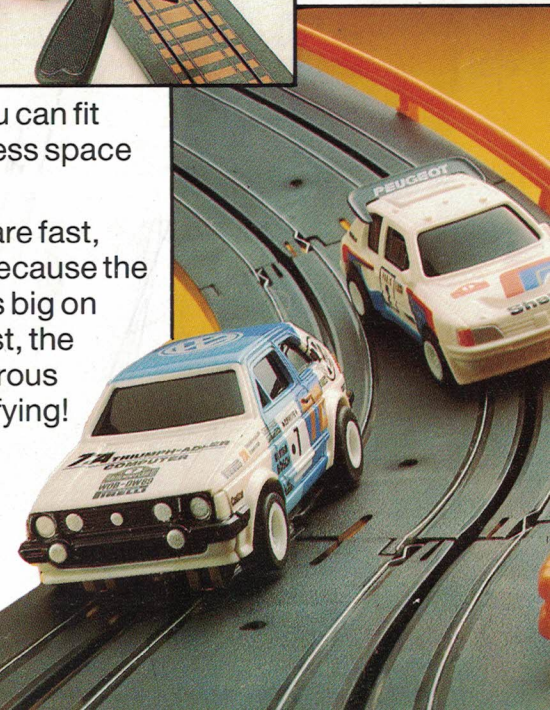


Tomy AFX is slot-car racing at it's brilliant best! It's the compact system that's big on action. That means you can fit more thrilling race action into a lot less space than you can with other systems.

It's big on action because the cars are fast, light and strong. It's big on action because the accessories are so realistic. And it's big on action because the straights are fast, the corners tight, the chicanes treacherous and the loop-the-loops simply terrifying!

This is the complete guide to Tomy AFX racing, telling everything you need to know, there are details of sets, accessories, cars, track and even alternative layouts.

Tomy AFX all the fun and excitement of Real racing!



TOMY AFX CARS

GROUP 'C' SPORTS PROTOTYPE CARS All four of these cars demonstrate excellent road holding thanks to their powerful ground effect magnets. The cars are a Porsche 962c, a Toyota 88cv, a Jaguar XJR 9LM, and a Sauber Mercedes C9-89.



Ref 8671



Ref 8655

NEW ROAD CARS ASSORTMENT

This brand new range of Road Cars features the Peugeot 205, the Golf GTI, the Porsche 961 and the Nissan 300ZX. Faithful copies of the original vehicles, they even have realistic liveries!



Ref 8633

LIGHTED CARS

These fantastic cars – two Jaguar XJRs and two Porsches – have real working headlights and tail lights so you can race them in the dark. But remember to be extra careful as night-time driving can be very hazardous!



Ref 8672

FORMULA 1 CARS

An assortment of four finely-detailed Formula 1 racing cars consisting of a McLaren Honda MP4/3, Benetton Ford B-187, Ferrari F-188 and Leyton House March 871.

CHANGE YOUR SET FOR DIFFERENT RACES

If you only have one Tomy AFX set, there's no need to think you can only take part in one type of race! Just by purchasing extra cars and track you can transform any one of our sets. Imagine, for example, a couple of Lighted Cars roaring around the Grand Prix circuit, or two AFX Firebirds pushing themselves to the limits on the Daredevil Rally! But why stop there! With a little imagination and some extra features you can build up your own layouts, adding even more danger with extra chicanes, hairpin bends, crossover sections and squeeze tracks.

TUNED UP KIT CARS

These four ready-to-assemble cars are specially designed to achieve optimum performance – but take care, they should only be driven by real aces, capable of racing at their best in the toughest conditions. They include the latest advancements in Tomy AFX technology; sponge tyres that give better traction on pacy circuits; super lightweight bodies to make the cars more aerodynamic and consequently that much faster, and more powerful motors for added acceleration.



Ref 8659/12

4/5

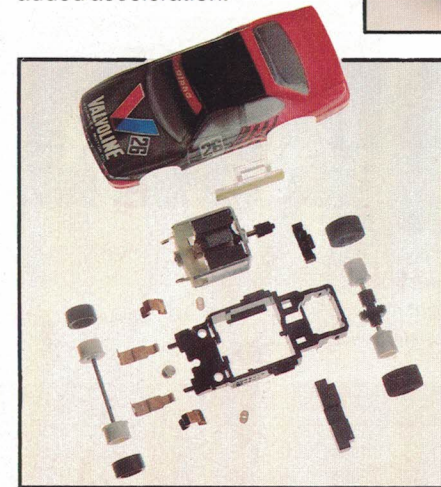
Ford Sierra Cosworth, Toyota Supra and 2 BMW N3's.

Test Data

Maximum Speed Test	Standard Tomy AFX Car	Tuned Up AFX Kit Cars
Seconds per metre	0.144	0.131
Kilometres per hour (mph)	25.0 (15.5)	27.5 (17.0)
Scale Speed (1/65)	1625 (1009)	1788 (1110)
Scale Speed Kilometres (mph)		

Acceleration Test	Standard Tomy AFX Car	Tuned Up AFX Kit Cars
0 - 1 m (seconds) Test	0.301	0.268
1 - 2 m (seconds) Test	0.167	0.149

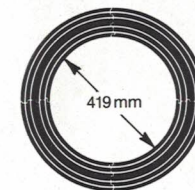
9° Curve Running Test	Standard Tomy AFX Car	Tuned Up AFX Kit Cars
Seconds per cycle	0.436	0.429
Kilometres per hour (mph)	8.3 (5.1)	8.4 (5.2)



Changes from Standard Specification

- 1 Coil wire increased in length to gain more power from the motor.
- 2 Standard magnet replaced with power magnet to strengthen grip on the road.
- 3 Rear tyres changed from rubber to sponge to increase roadholding.
- 4 Body weight decreased by 30% by changing from ABS Injection Plastic to PVC Vacuum.

Specification Details	Standard Tomy AFX Car	Tuned Up AFX Kit Cars
Material of Body	Injection	Vacuum
Weight of Body	3.0 grams	2.1 grams
Weight of Chassis	17.9 grams	17.1 grams
Total Weight	20.9 grams	19.2 grams
Wheel Base	38 mm	38 mm
Motor Power Current at Full Acceleration	450 mA	550 mA
Tyres	Rubber (solid)	Sponge
Magnet	Power	Power



9° curve

1 cycle = 1.300 mm

Summary

Tests conclusively prove that Tuned-up AFX Kit Cars are faster and lighter than Standard AFX Cars.

Acceleration: 0 - 1 m (seconds) 11% Faster
 1 - 2 m (seconds) 10% Faster

Maximum speed: km/mph 10% Faster
 Curve speed: km/mph 1 - 2% Faster
 Weight: 8.1% Lighter

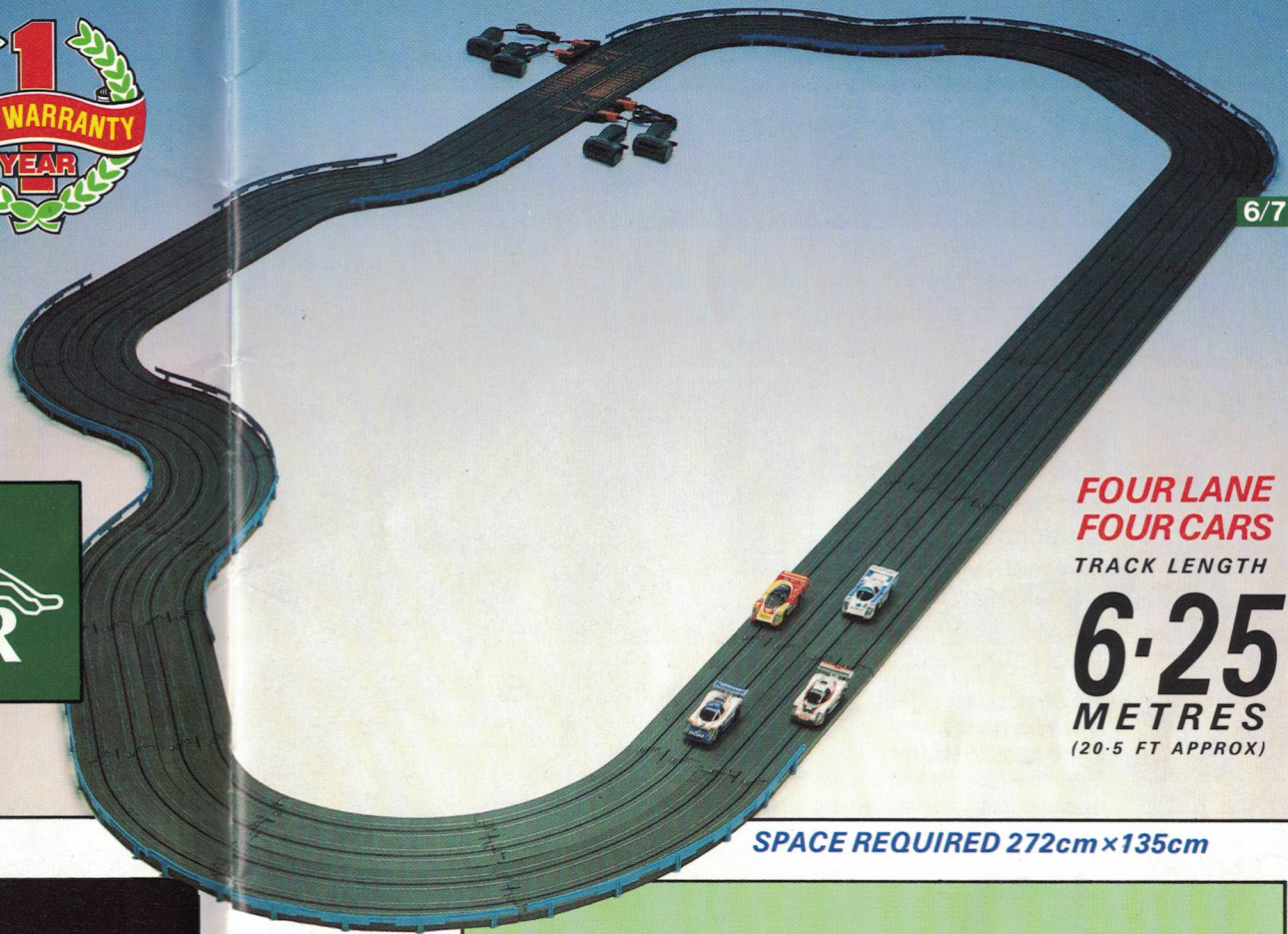
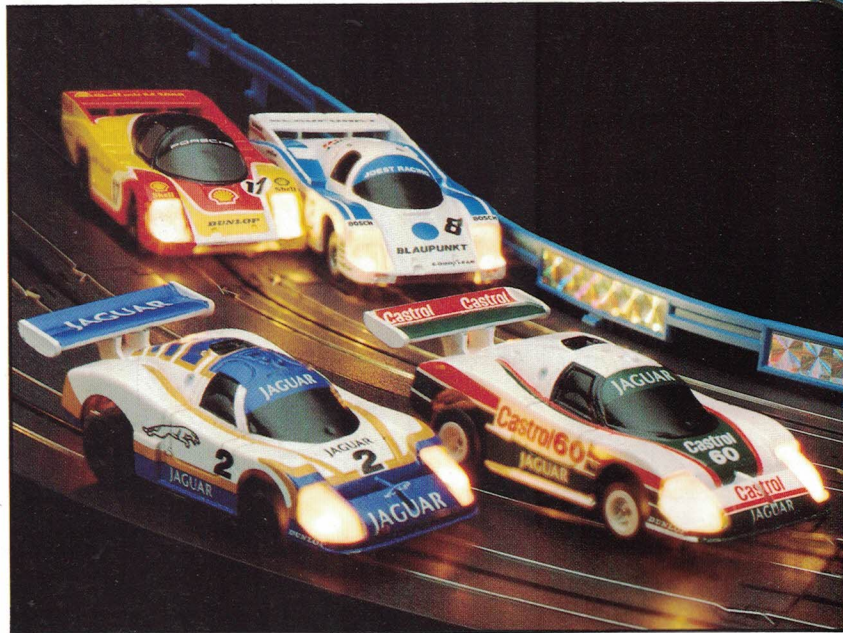
JAGUAR CHALLENGE

A four-lane circuit complete with four lighted cars, Jaguar Challenge brings the excitement and adventure of the legendary Le Mans circuit right into your own home!

Faithfully copied from the famous French circuit – which hosts a 24-hour rally every year – Jaguar Challenge features four cars from two of the world's greatest manufacturers – Jaguar and Porsche. Both have impressive records at Le Mans, but how will they perform when racing on your circuit?

All four cars are equipped with fully-working front and rear lights for night-time racing – vital for picking out the twisting, turning track ahead. And all the action is contained within new ultra-reflective crash barriers.

Jaguar Challenge contains 2 Jaguar XJR-9LM cars and 2 Porsche 962 cars, all with working front and rear lights, 49 sections of track, 16 crash barriers with light reflectors, 4 hand controllers and 2 two-way power packs.



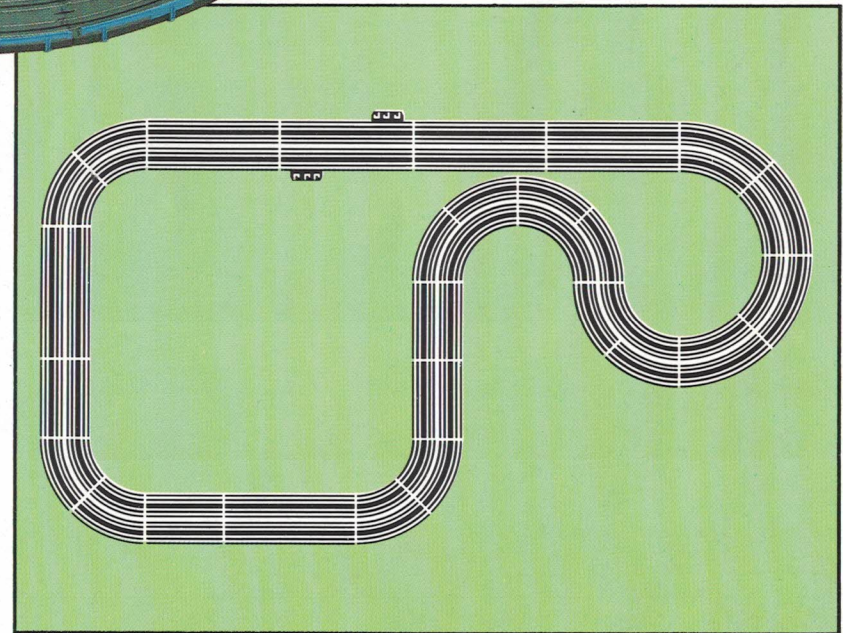
6/7

**FOUR LANE
FOUR CARS**
TRACK LENGTH

**6.25
METRES**
(20.5 FT APPROX)

SPACE REQUIRED 272cm x 135cm

Rearranging your track to create new circuits is great fun and gives you more race options. We've suggested a new layout opposite, but it's just as easy to create one yourself.

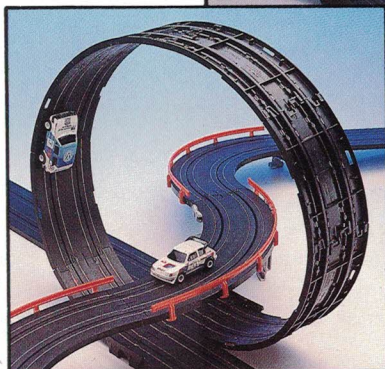


DAREDEVIL RALLY

Driving either an AFX turbo Golf GTI or a Peugeot 205 GTI, you'll attempt the Loop-the-Loop, Ride the Wall and the treacherous, challenging 'S' curve. Survive these obstacles and you'll still have to negotiate a twisting, turning circuit where one mistake could cost you the race.

This is a set for the "complete driver". In addition to proving your skills on the toughest obstacles around, you'll need to perform at your very best to take maximum advantage from the less hair-raising sections of the circuit.

Daredevil Rally contains 1 AFX turbo Golf GTI and 1 Peugeot 205 GTI, 36 sections of track including the Wall Riding Track and the Stunt Loop, 8 piers, 12 crash barriers, 2 wall climb track supports, 1 loop-the-loop tie bar, 2 hand controllers and a power pack with a two way racing plug.



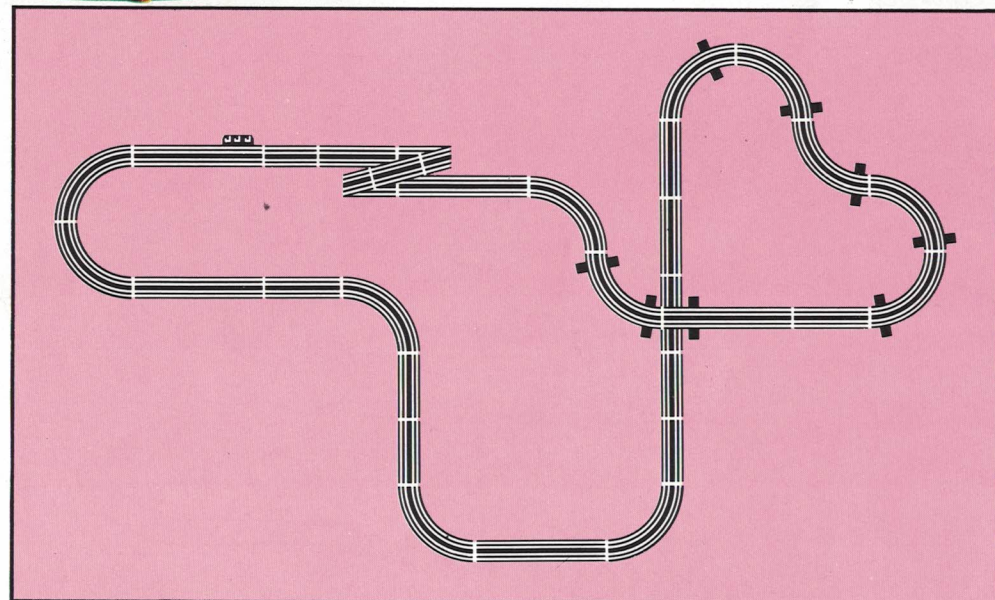
TRACK LENGTH

8-39
METRES
(27.5 FT APPROX)



8/9

SPACE REQUIRED
133cm x 130cm



Rearranging your track to create new circuits is great fun and gives you more race options. We've suggested a new layout above, but it's just as easy to create one yourself.

FORMULA 1 DUEL

It's hard to beat a Formula 1 Grand Prix for sheer excitement, and our Formula 1 Duel circuit certainly delivers plenty of action! This set offers you the chance to relive the intense rivalry between the Williams and Ferrari teams. Two realistically detailed Formula 1 cars speed around the track, slowing for the curves and accelerating up the straights. There are piers to put "raised sections" into the circuit and sturdy crash barriers to prevent any mishaps if you misjudge your approach to a tight corner. In fact just like any other Grand Prix, it's action all the way!

Formula 1 Duel contains AFX Formula 1 Williams and Ferrari cars, 8 sections of track, 2 piers, 6 crash barriers, 2 hand controllers and a two-way Power Pack.

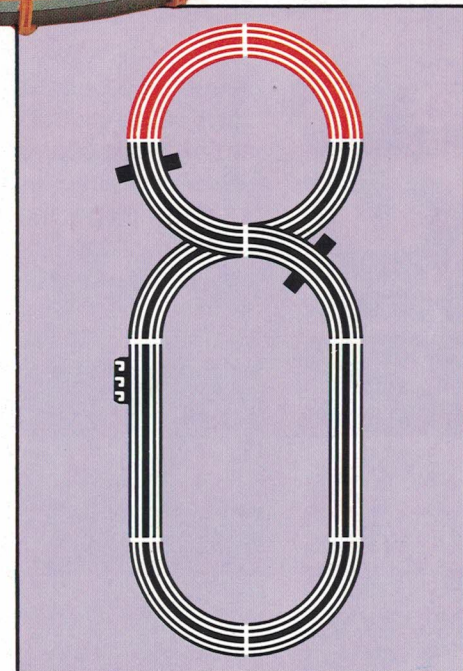
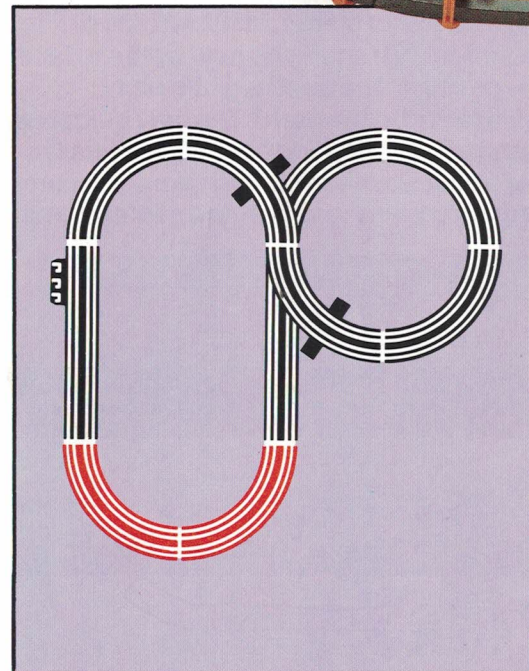
TRACK LENGTH

2.59
METRES
(8.5 FT APPROX)

SPACE REQUIRED 100cm x 50cm



10/11



Sometimes you'll need extra track sections if you're designing alternative layouts. We've added more features to the circuits above to increase the thrills and spills.

MIDNIGHT RACERS



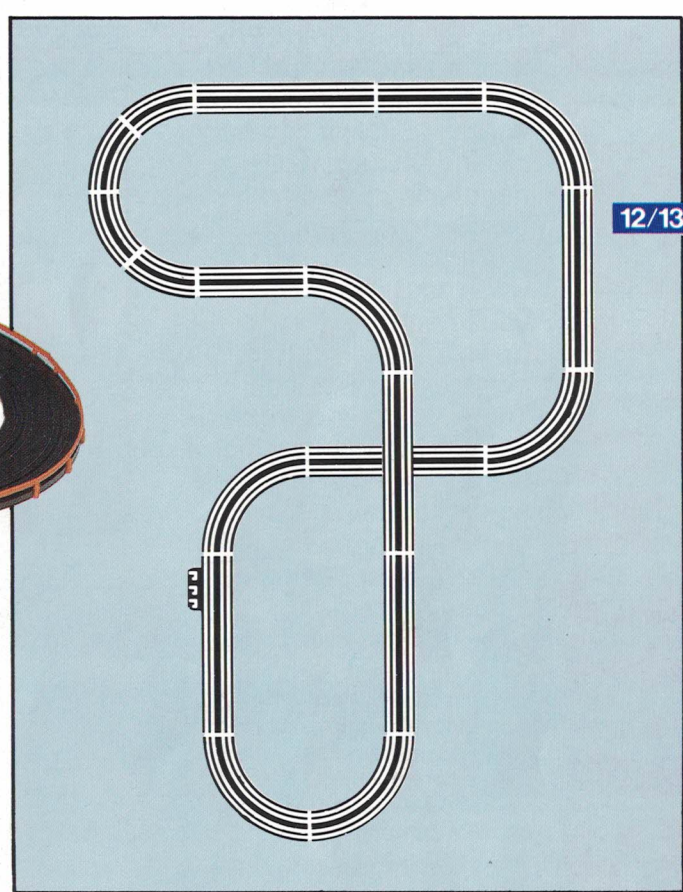
TRACK LENGTH
5.80
METRES
(19 FT APPROX)

Featuring two superfast AFX turbos, with fully-working headlights, Midnite Racers presents a true test of speed, skill and nerve. This is really a set for the experienced racer who now wants to face an even greater challenge – driving in the depths of the night! Can you keep your cool while racing in the dark? The only guidance you'll have is your powerful headlights picking out the potentially lethal twists and turns of the track. So remember to take extra care, but never forget that you're in a tense race where one mistake could cost you victory!

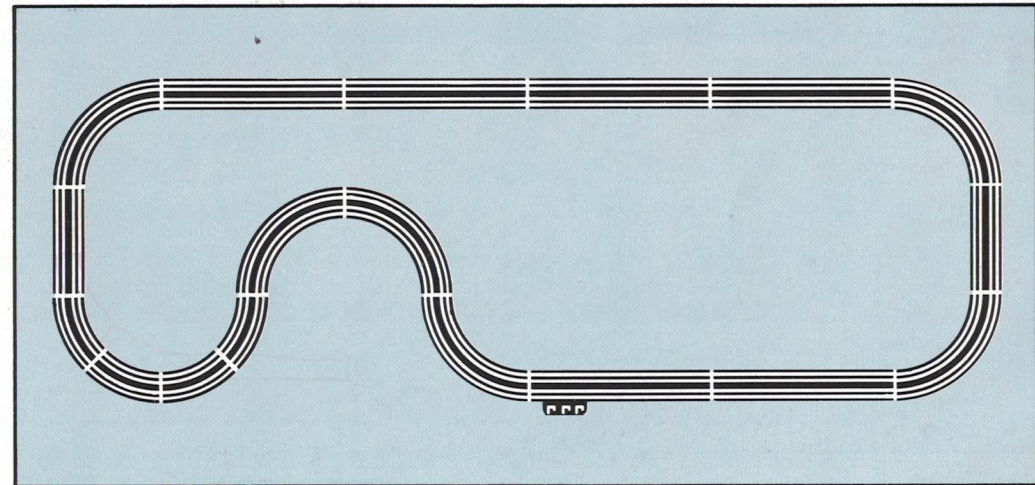
Midnite Racers contains 2 AFX Turbo Firebirds, 20 sections of track including banked curve, 5 piers, 8 crash barriers, 2 hand controllers and two-way power pack.



SPACE REQUIRED
124cm x 121cm



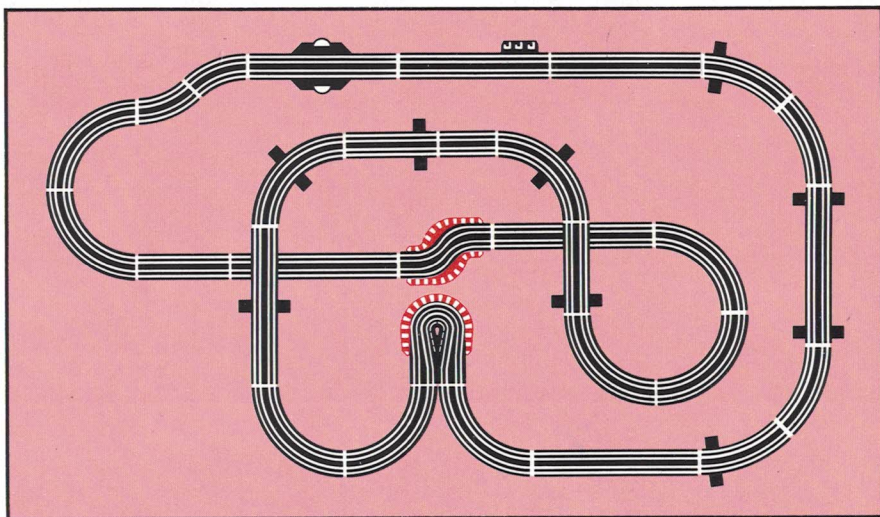
Simply by rearranging your track you can create a new circuit, with longer straights, more bends or extra twists (see examples).



FORMULA 1 TEAM CHALLENGE

This set takes Grand Prix racing a stage further! Driving a realistically detailed Formula 1 car you'll tear around a huge circuit negotiating a banked curve, a treacherous hairpin corner and a tricky chicane. Then when you hit the straights you'll need to slam your foot down for instant turbo-powered acceleration! The turbo booster trigger is on the hand controller which also features a finger-tip speed control wheel. Both hand controllers are decorated in the same livery as their respective cars.

Formula 1 Team Challenge contains a Formula 1 Ferrari and Honda-Williams, 35 sections of track, including banked, hairpin and chicane sections, 12 crash barriers, 2 hand controllers and two-way power pack.



There's no need to stick to one track layout. On the Team Challenge you could, for example, create the circuit above, or you could design one yourself.

TRACK LENGTH

9.5
METRES
(31 FT APPROX)



14/15



SPACE REQUIRED 290cm x 84cm

COMPUTER CHALLENGE

TRACK LENGTH

5.33
METRES

(17.5 FT APPROX)



Computer challenge also sold under the name **Ghost Racer**



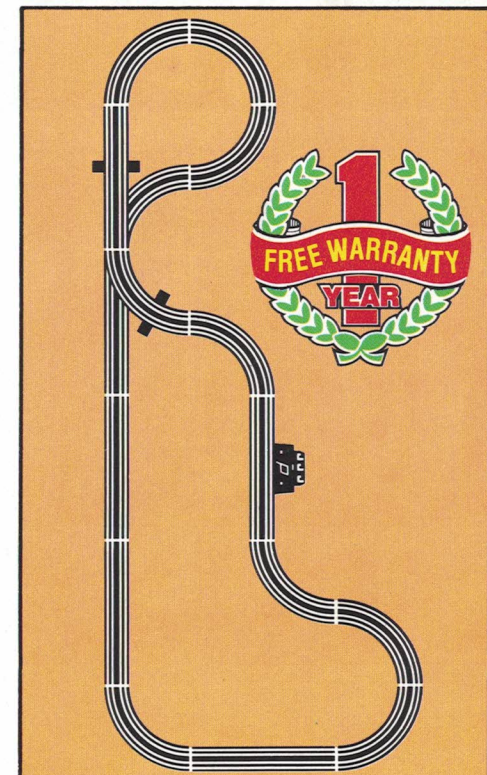
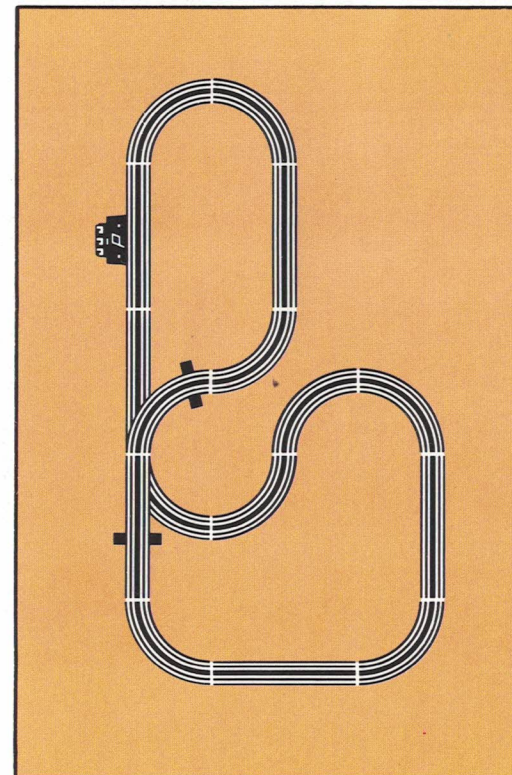
16/17

SPACE REQUIRED 161cm x 100cm

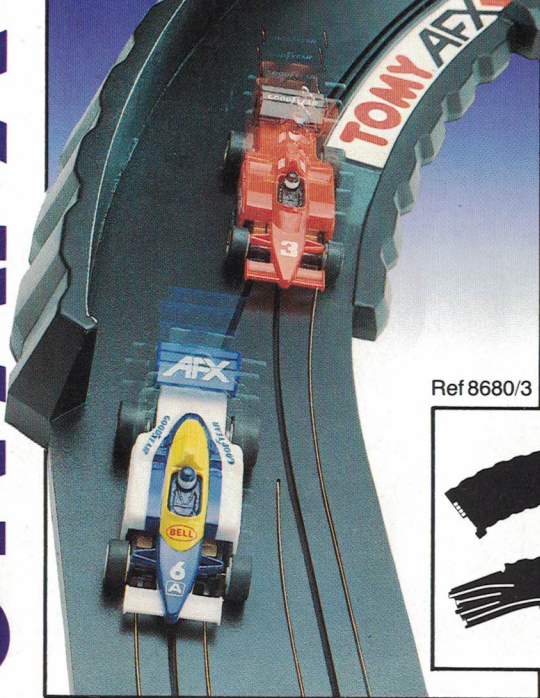
Computer Challenge is the perfect set for race aces without a partner and for those who simply want to put in some practice under real race conditions.

The set features a Ferrari Testarossa turbo and a Porsche 959. Either car can be computer-programmed to do a set number of laps at a set speed while you race the other car. And as you improve you simply increase the computer-controlled car's pace. The Computer Challenge circuit is designed with maximum excitement in mind. It's a race over a tight, twisting circuit that will let you develop your own skills – in your own time.

Computer Challenge features an AFX turbo Ferrari Testarossa and a Porsche 959, 16 sections of track for a 17½ft layout, 3 piers, 10 crash barriers, 2 hand controllers and a power pack with a two-way racing plug.



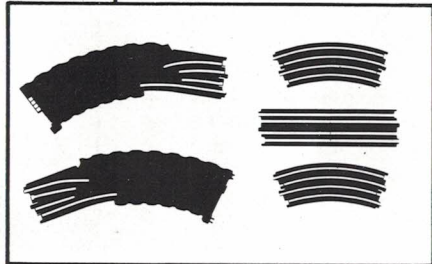
Why not add greater variety to your races by using alternative track layouts. You could follow the ideas shown above, or design a new circuit yourself.



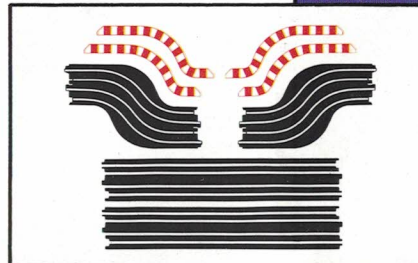
Drift Action Curve Set

Instead of taking corners in the usual way, this feature lets you "drift and tail slide" through them. When you enter the corner the power cuts out and the car "skids" through. But take care, if you approach the corner too quickly you'll spin off, and if you approach it too slowly you'll stall.

Ref 8680/3



Ref 8670/3

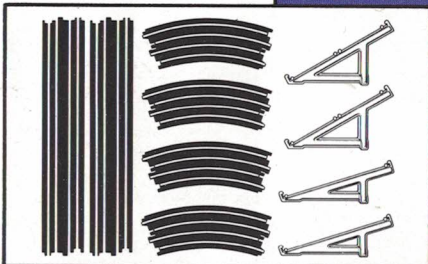


9" Chicane Curve Set

If you drive well through the twisting chicanes you can steal a big advantage for the rest of the race! This chicane set contains two chicane tracks, two 15" straights and four sections of red and white striped kerbing.



Ref 8667/3

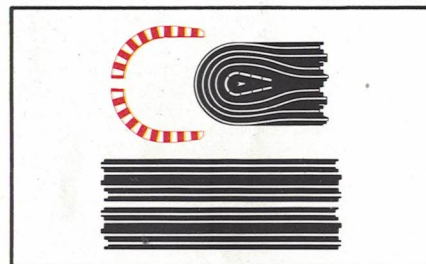


12" Banked Curve Set

Nothing can quite beat the thrill of powering around a banked curve, building up speed for the next straight. This set features banked curve sections and supports, as well as straight track.

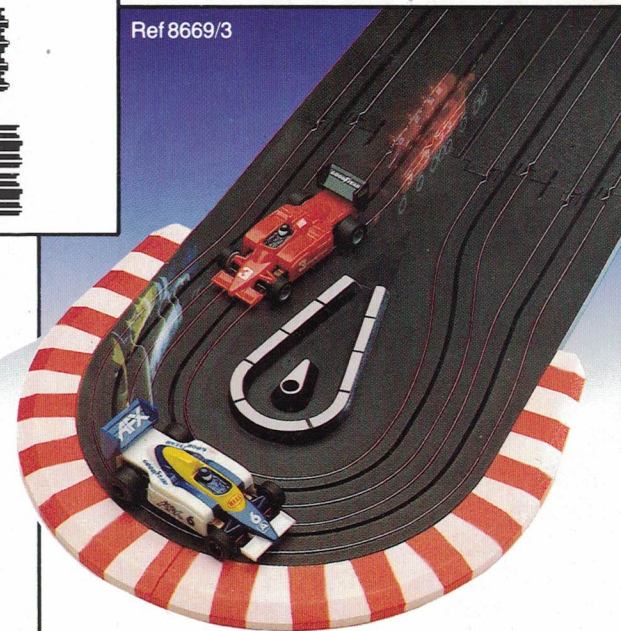


Ref 8669/3



Hairpin Curve Set

Quite simply the first racer to reach the hairpin is the first racer to leave it – that's because there's only room for one car at a time on this tight curve. This set features one 3" hairpin bend, two 15" straights and two sections of kerbing.



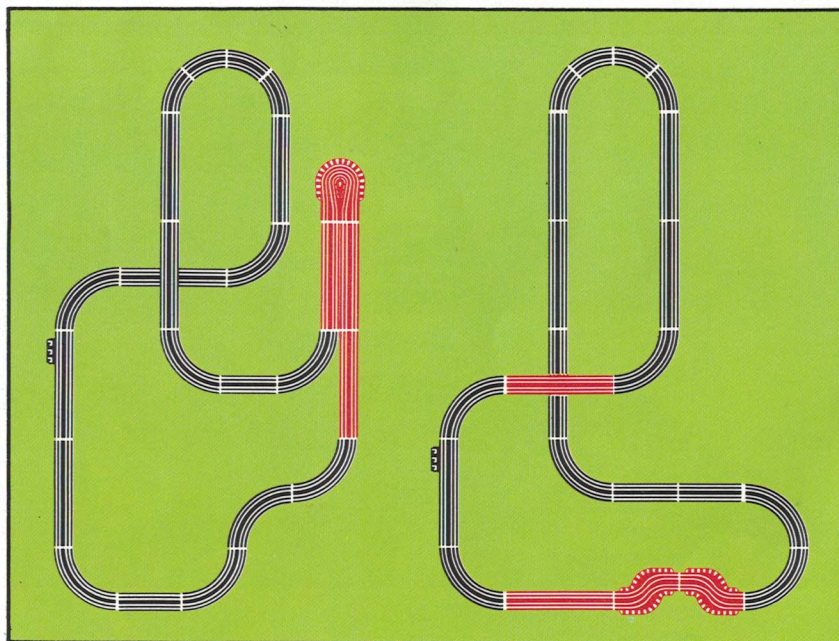
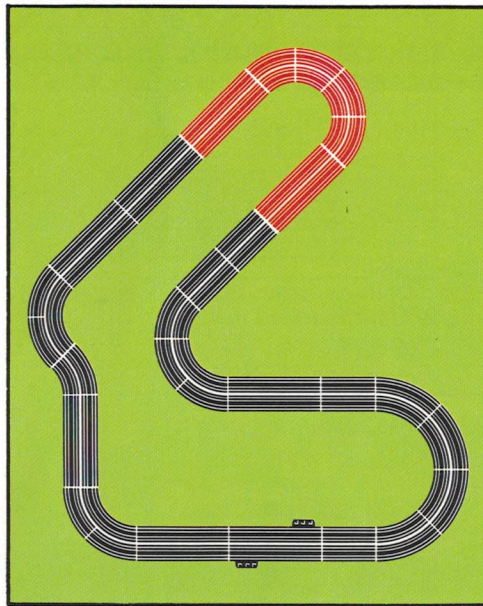
There's no need to stick to just one layout with Tomy AFX, whatever set you have. Just by using a little imagination you can create totally different racing environments, which offer fresh challenges at every twist and turn.

You can see a few of our suggestions on these pages. We've included some of our most exciting accessories to add extra thrills and spills. But please don't feel constricted to following these suggestions – if you've got a good idea for an exciting circuit why not set it up yourself?

And as all Tomy AFX track is compatible – in other words every section will slot into the next one – you can combine elements of every set together!

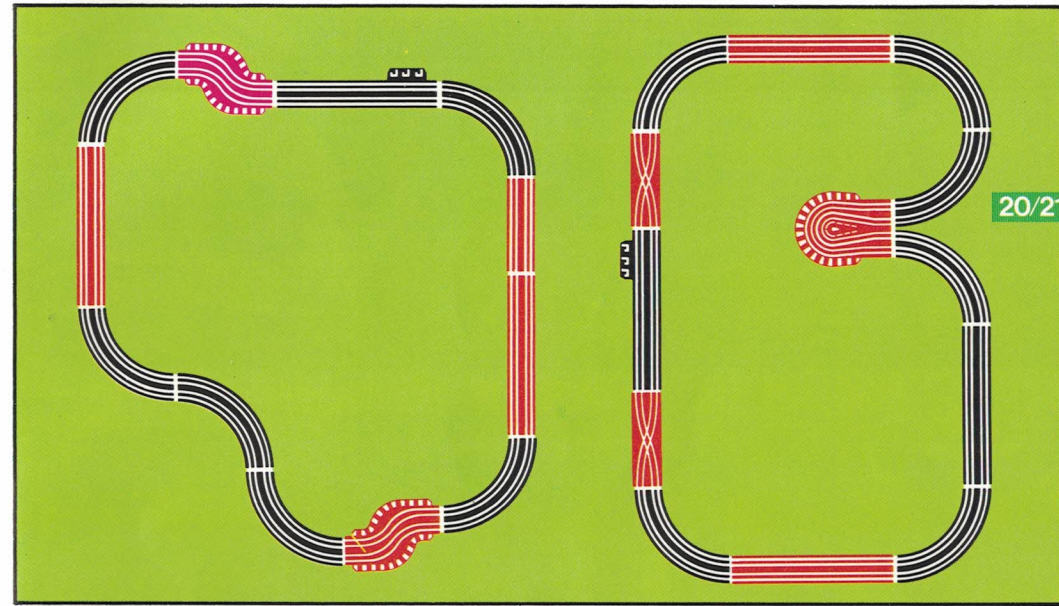
JAGUAR CHALLENGE

There's no need to only race over the Le Mans course with Jaguar Challenge. We've added a 12" banked curve section and a 9" banked curve set to this rearranged layout.



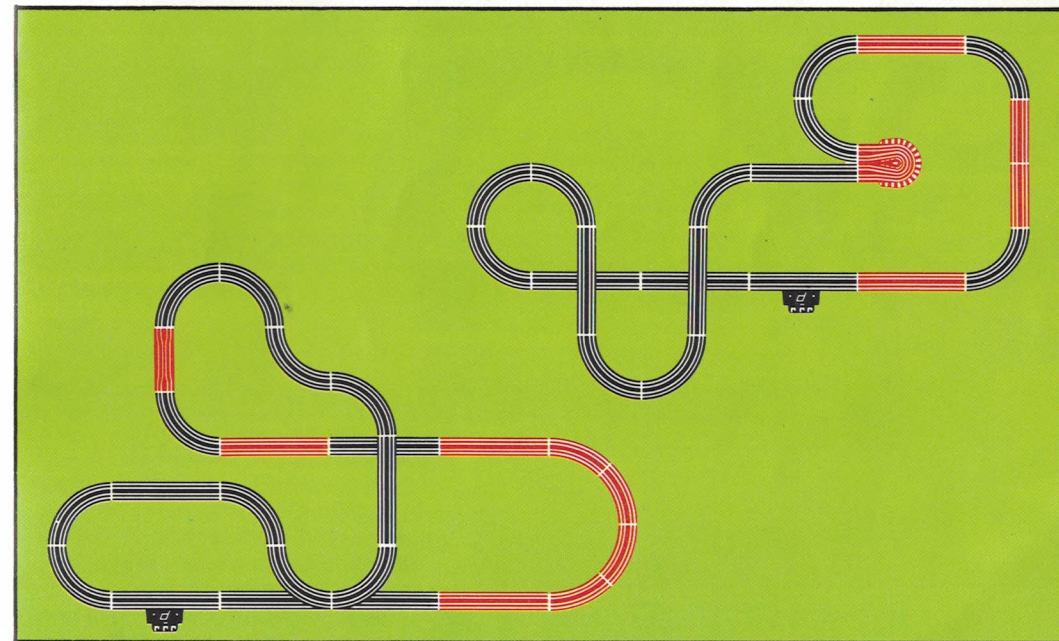
MIDNIGHT RACERS

A supertight hairpin bend also features on one of these alternative layouts which additionally includes a 15" straight track. The other circuit has a chicane set to build up the excitement.



FORMULA 1 DUEL

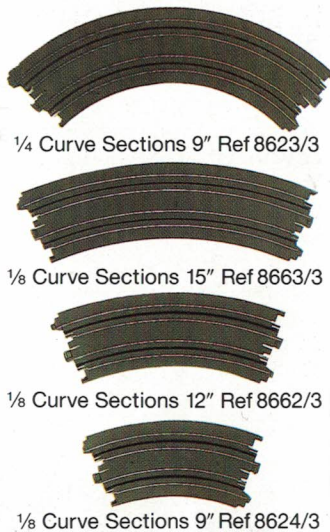
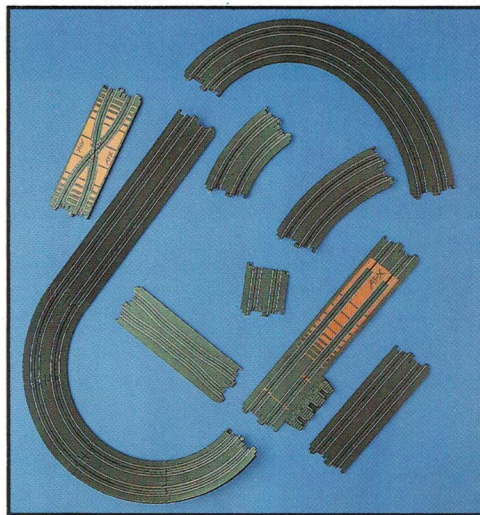
With so many Grand Prix circuits in the world, you should never be short of ideas for new layouts for your Formula 1 championship. We've added one hairpin and two 9" crossover tracks to the first circuit, and a chicane set and a 9" straight track to the second.



COMPUTER CHALLENGE

On these longer straights you can build up more speed, but remember to slow in time for the corners. The first layout includes a 12" banked curve set, one 9" squeeze track and one 15" straight. The second features a hairpin curve set and two 9" straights.

AFX ACCESSORIES



¼ Curve Sections 9" Ref 8623/3

⅓ Curve Sections 15" Ref 8663/3

⅓ Curve Sections 12" Ref 8662/3

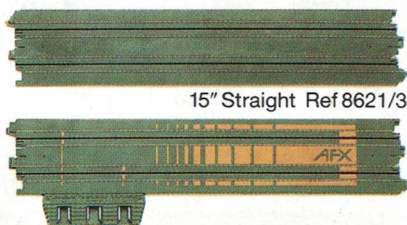
⅓ Curve Sections 9" Ref 8624/3



Hand Controller
Ref 8630/3



Adaptor Track
Ref 8626/3



15" Straight Ref 8621/3



Banked Curve Set
Ref 8628/3

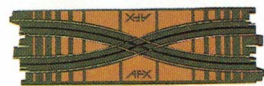
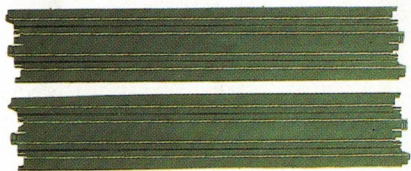
15" Terminal Track Ref 8627/3



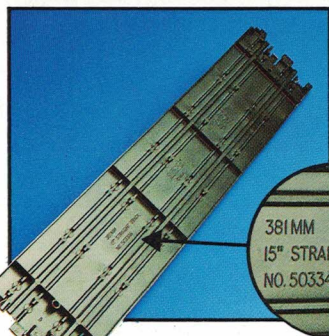
9" Straights Ref 8622/3



9" Squeeze Track Ref 8625/3



Crossover Track Ref 8655/3



381 MM
15" STRAIGHT TRACK
NO. 503346

TRACK IDENTIFICATION

You can easily identify Tomy AFX track by checking the code marks on the underside of each section. These marks indicate the approximate length of the track section (in millimetres) and which type of track it is (eg 9" straight track). There is also a simple diagram showing how to put the track sections together.

ELECTRONIC CONTROL STATION

This computerised race control centre displays all the data you need – split times, lap times and number of laps raced, as well as who is the race winner!

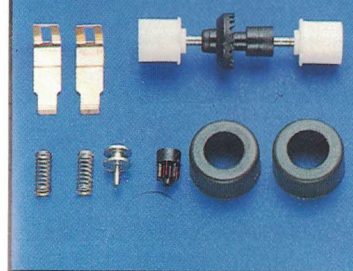
You start with a Red – Amber – Green series of lights and sound countdown – just like the real thing! Then you can race for up to 195 laps or over a time of up to 99 minutes, counted out on a quartz analogue display.

When the pre-set distance/time is completed the ECS automatically stops the race.

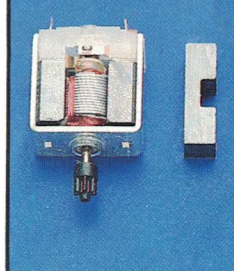
Ref 8656



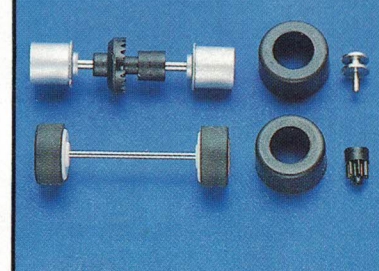
Ref 8634/12



Ref 8657/12



Ref 8657/12



SERVICE CARS

So many factors can affect your cars' performance apart from your driving skills; the type of tyres you're running on, the cars' bodyweight and how powerful the motor is. With these three service kits you can improve the technical aspects of your cars' performance while adding to the fun and realism of AFX racing. Kits One and Three feature parts that give your car better traction on the circuit, while Kit Two includes a more powerful motor and magnet.

AUTOMATIC LAP COUNTER

If all you want to do is keep a check on the number of laps raced, you'll need the Automatic Lap Counter – another accessory that adds to the realism and excitement of Tomy AFX racing! Every time your car passes under the Automatic Lap Counter it triggers a thin plastic strip, which in turn moves the lap indicator on. Using the Automatic Lap Counter you can race for a distance of up to 50 laps.

Ref 8629/3

