

## B.R. APT-P POWER CAR—R.704

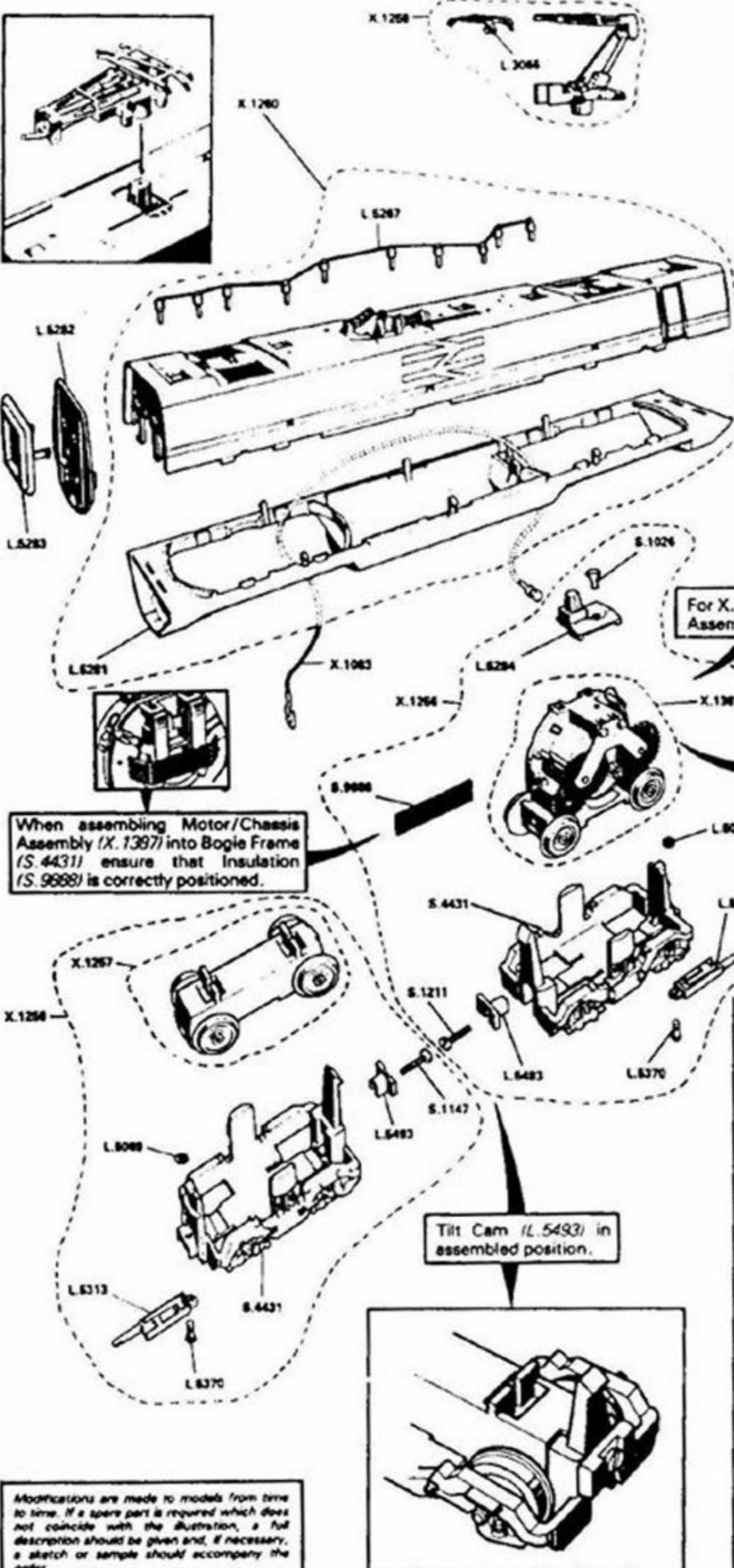
See overleaf for bogie detail

The British Rail APT and the Hornby model of it are trains of advanced design for running at high speed over suitable track. As its prototype, the Hornby APT does not like operating over severe reverse curves using 1st radius track. It is recommended to fit at least one R.600 straight track between the opposing curves if this formation is essential on a layout. When negotiating intricate trackwork such as a crossover from one track to another, the real train would always be driven slowly so as to avoid derailments and under similar circumstances the Hornby model should also be operated with caution and at a realistically slow speed.

See the Hornby APT-P instruction leaflet for advice on removing body from underframe and also for lubrication of mechanism.

To remove either bogie slightly twist end of Underframe (L.5281) turn bogie diagonally and pull it down and out of its location.

For X.1387 Motor/Chassis Assembly see overleaf.



When assembling Motor/Chassis Assembly (X.1387) into Bogie Frame (S.4431) ensure that Insulation (S.9688) is correctly positioned.

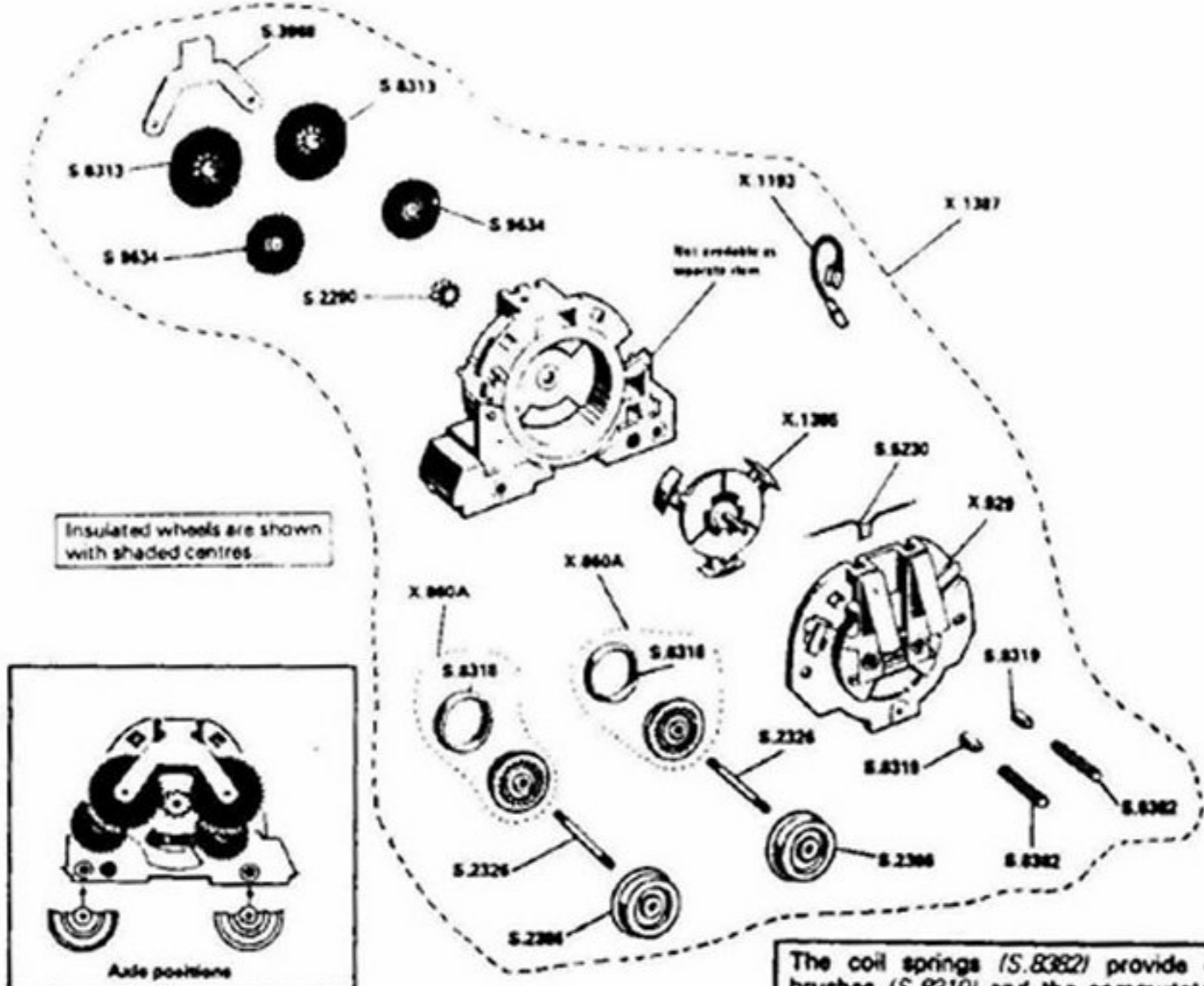
Modifications are made to models from time to time. If a spare part is required which does not coincide with the illustration, a full description should be given and, if necessary, a sketch or sample should accompany the order.

### List of Parts

Ref. No.	Item
X.1083	Wiring Harness Assembly
X.1256	Powered Bogie Assembly
X.1257	Non-Powered Bogie Chassis Assembly
X.1258	Non-Powered Bogie Assembly
X.1259	Pantograph Assembly
X.1260	Body Assembly Complete
X.1387	Motor/Chassis Assembly
L.3066	Pantograph Head
L.5089	Retaining Clip—Coupling
L.5281	Underframe
L.5282	End Panel
L.5283	Dummy Corridor Connection
L.5284	Pantograph/Motor Fixing Unit
L.5287	Insulated Roof Cable
L.5313	Coupling Unit
L.5370	Pivot Pin—Coupling Unit
L.5493	Tilt Cam
S.1026	Screw—Pantograph Fixing
S.1147	Screw—Non-Powered Bogie
S.1211	Screw—Powered Bogie
S.4431	Bogie Frame
S.9688	Brush Retaining Arm Insulation

SERVICE SHEET No. 121

## 4-WHEEL APT-P POWERED BOGIE—X.1387



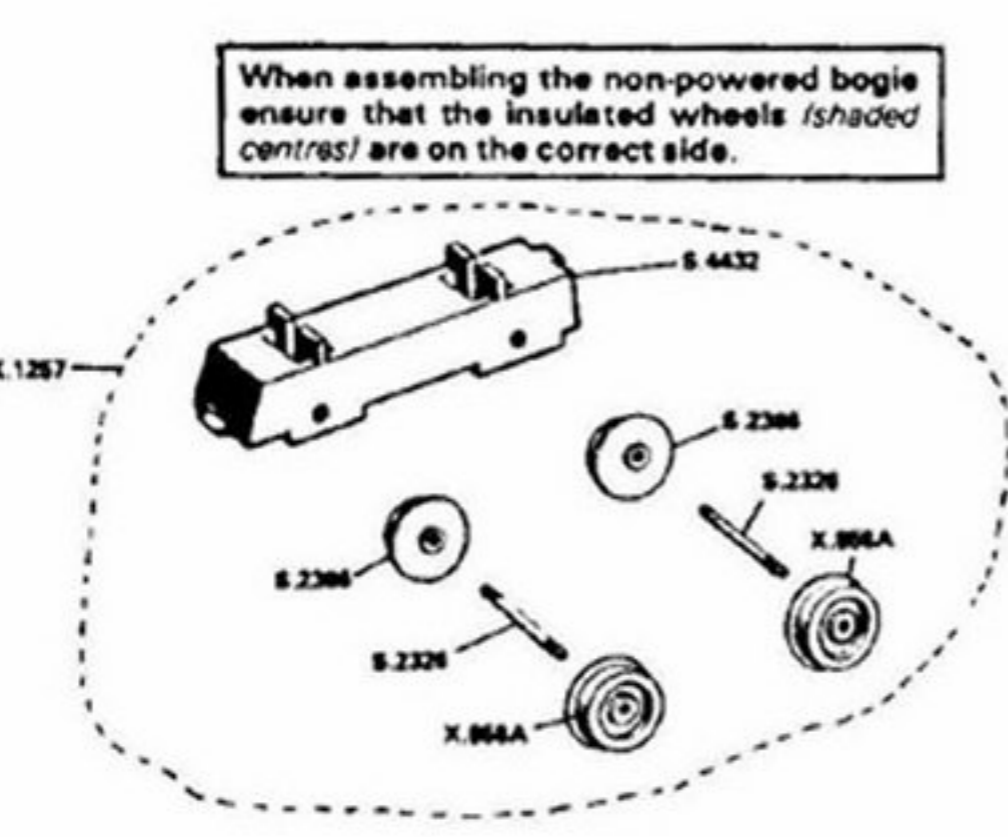
Insulated wheels are shown with shaded centres.



The coil springs (S.8382) provide contact pressure between the brushes (S.8319) and the commutator. The retaining arms must be adjusted so that the hooks hold the springs centrally in position but do not actually touch the back of the brushes.

The correct pressure must be maintained when new brushes are fitted and it may be helpful to adjust the retaining arm by inserting a small screwdriver blade behind the centre of each arm and bending the bottoms slightly inwards.

## 4-WHEEL APT-P NON-POWERED BOGIE—X.1257



When assembling the non-powered bogie ensure that the insulated wheels (shaded centres) are on the correct side.

### List of Parts

Ref. No.	Item
X.858A	Disc Wheel—Insulated
X.860A	Disc Driving Wheel—Insulated & Tyred
X.929	Brush Retaining Arm Assembly
X.1193	Wiring Assembly
X.1257	Bogie Chassis Assembly—Non-Powered
X.1385	Armature Assembly
X.1387	Motor/Chassis Assembly
S.2290	Spur Gear—11 Tooth
S.2326	Axle
S.2386	Disc Driving Wheel—All Metal
S.3968	Gear Retainer
S.4432	Chassis—Non-Powered Bogie
S.5230	Suppressor
S.8313	Spur Gear—40/10 Tooth
S.8318	Traction Tyre
S.8319	Carbon Brush
S.8382	Brush Spring
S.9634	Spur Gear—28 Tooth

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