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WARRANTY

All information provided by us, either in writing or verbal, is given in good faith but no warranty, express or implied, is to be attached to any information or recommendations provided as the conditions and methods of application are outside our control.

Nor can we accept liability for consequential loss or damage due to the use of our products as it is the users responsibility to determine whether the materials purchased are suitable for the intended use.

We will, however, replace faulty goods or give a full refund. Your statutory rights are unaffected.

PHOENIX  **PRECISION**

CARR'S

Modelling Products

www.carrs-solder.co.uk

Catalogue N°. 30
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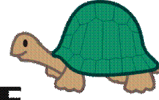
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Point (Turnout / Switch) Operation

Simply.....The Best!

SLOW-MOTION SWITCH MACHINE



The TORTOISE™ Slow Motion Switch Machine is the most popular and respected switch machine in the US.



3 second throw, bulletproof stall motor design, DPDT contacts, simple under-layout installation.



800-6000	Tortoise Switch Machine	Single
800-6006	Tortoise Switch Machine	Value Pack (6)
800-6012	Tortoise Switch Machine	Value Pack (12)
800-6100	RTM Remote Tortoise™ Mount	Single
800-6101	Extra Cable & Actuator for RTM	Single
800-6190	Tortoise™ Drilling Template	Single
800-8100	RSA Remote Signal Activator	Single
800-8101	Extra Cable & Actuator for RSA	Single
C1541	Connector strip for Tortoise Motors To Enable Quick, easy release, connection to a Tortoise.	
C1546	The Hare DCC decoder for Tortoise.	
C1547	The Hare DCC decoder for Tortoise - Version 2	
C1549A	Tortoise operating wire - standard length (approx 100mm) @ 0.8mm diameter x 6 wires	
C1549B	Tortoise operating wire - extra long (approx 150mm) @ 1mm diameter x 6 wires	
C1549C	Tortoise operating wire - 6 wires x 1m long	
C1554	Cranks - Plastic (for hidden operation) (4 sprues)	

Brick System (formally Formcraft)

C5050	Base section (for individual Bricks)	
C5051	Individual Bricks	Previously C & L Part N° 4ZZ104A
C5052	Brick Sections	Previously C & L Part N° 4ZZ105A
C5053	Corner Sections	
C5054	Paving Slabs	Previously C & L Part N° 4ZZ103A
C5055	Windows	Previously C & L Part N° 4ZZ102A

C1091 Sprigs

Coal
C1095

Scatter Material

Available whilst stocks last

C1114 Scenic Scatter - Straw.
C1115 Scenic Scatter - Autumn Leaves.
C1128 Scenic Scatter - Snow.
C1128A Scenic Scatter - Snow.- Packet
C1132 Scenic Scatter - Dark Green

Tree Mouldings

C5060 Previously C & L Part N° 4ZZ106A

Soldering Irons and Accessories

C1300 25 Watt Soldering Iron (Antex XS25)
C1302 Antex - Soldering Stand with cleaning sponge
C1303 0.14 mm bit for WM50 and 690 - 1107
C1304 0.5 mm bit for WM50 and 690 - 1105
C1305 1 mm bit for WM50 and 690 - 1106
C1306 2.3 mm bit for WM50 and 690 - 1100
C1307 3 mm bit for WM50 and 690 - 1101
C1308 3 mm screw driver bit for WM50 and 690 - 1108
C1309 4.7 mm bit for WM50 and 690 - 1102
C1310 5 mm bit for WM50 and 690 - 1109
C1311 6 mm bit for WM50 and 690 - 1103
C1318 0.12mm bit for XS - 57
C1319 0.5mm bit for XS - 55
C1320 1mm bit for XS - 56
C1321 2.3mm bit for XS - 50
C1322 3.0mm bit for XS - 54
C1323 4.7mm bit for XS - 52
C1324 2.3mm bit for M, C (102)
C1325 2.3mm curved bit for M, C (302)
C1326 2.3mm bit for M, C, G (820)
C1352 Antex Soldering Iron - 80w
C1353 Antex Soldering Iron - 100w
C1354 Antex Soldering Iron - Gas iron & kit
C1365 Antex Spare Sponge for Stand.
C1369 2.3mm screwdriver bit for M, C
C1373 2.3mm bit for XS - 53
C1374 0.5mm No.10 for C15 Soldering Iron
C1375 6mm Straight Bit for Antex 80 watt iron (B250030)
C1376 6mm Angled Bit for Antex 80 watt iron (B250130)
C1377 6mm Straight Bit for Antex 100 watt iron (B260030)
C1378 6mm Angled Bit for Antex 100 watt iron (B260130)

Soft Solders

C1000 **221 °C Tin/Silver Solder.**
Lead Free general purpose high strength

C1001 **70 °C. Strip Solder.**
This is the standard industry Low temperature solder for the assembly of whitemetal castings. The solder melts at 70° C but when fully fused with whitemetal it re-melts at a higher temperature. As this solder does not have good penetration qualities, when soldering whitemetal to brass or nickel silver, you should 'tin' the brass with a 138 or 145 °C Solder before soldering the parts together.

C1002 **145 °C Strip Solder.**
145 °C solders are normally used for detailing. These enable you to add the small parts to an otherwise completed structure with a reduced risk of melting the main joints and other details. Its lower melting temperature also means that less heat is required, and quicker jointing is achieved, or a smaller iron may be used. It should be used with the appropriate fluxes for the metals being joined. It should be noted that some older versions of C1002 contained Cadmium and care should be taken over its use. In newer stock Cadmium has been replaced by Bismuth, which is a much safer element.

C1003 **179 Strip Solder.**
This is a specialised solder for aluminium and its alloys – Mazak, etc. and is used with Grey Label Flux. It has only about half the strength of a tin/lead solder and will fuse with almost any metal provided that the right flux has been used. It has a high surface tension so makes thick joints with large fillets. As aluminium soaks up a lot of heat, use a higher wattage iron than for brass. Soldered aluminium is highly susceptible to corrosion, therefore it is important to seal all joints from the atmosphere within an hour or so of making them. ELECTROFIX is ideal for this.

C1004 **188 Strip Solder.**
This is ideal for soldering sheet metal and close fitting joints. The short melting range minimizes the heat required and thus the risk of distortion. Low surface tension means that only a small fillet is left along a joint, it also flows more readily than less pure common solders. Its extra low antimony content makes it reliable with brass and nickel silver, unlike common electrical solders.

C1005 **224 Strip Solder.**
This is the usual grade of 'Tinman's Solder', but with a low antimony content so as to be suitable for use with brass. It has a longer melting range than No. 188 and a higher surface tension. This makes the solder useful for filling gaps, as when making fuel tanks or supporting bearings in oversize holes to obtain precise location. It is also better for joining solid components together than N° 188.

C1006 **243 Strip Solder.**
The high melting range - 235 to 243 °C, makes this useful when further soldering is to be done nearby. You should then be able to continue without the worry of earlier soldered items beginning to bubble, melt and become unsoldered. It is also useful if you need to solder small parts onto the larger pieces, before the main assembly. It is ideal for soldering up masters and sub masters for assembling masters for whitemetal castings. The flow characteristics are similar to those of N° 188. However it should not be mixed with other lead solders as it may become brittle, so if necessary protect with Solder Mask.

C1007 **Speedy Solder.**
This is a general-purpose solder, which has a particular use in electronics applications. It combines the superior qualities of No. 188 with a high temperature resin core, in a convenient wire form. The single core promotes faster melting and better spreading, and since the resin does not burn quickly it does not clog the joint with carbon deposits, which would inhibit solder flow. When using cored solder, if the iron stops smoking then all the flux has been consumed and soldering gets very difficult, add a drop of Orange Flux.

C1016 179 °C No Clean Solder Cream.
C1017 138 °C No Clean Solder Cream.

The introduction of these two creams has revolutionised the construction of etched brass kits and many modelers now use little else. Everything about them is good. The particle size and shape are right and the resin flux is the best we have used.

Both are supplied in syringes, together with a micro nozzle, which allows you to apply the very minimum amount you need.

Consequently, the work is neater and cleaning up is but seconds work. The 179 cream is suitable for the main jobs, chassis construction, soldering boilers, etc. whilst the 138 is ideal for adding detail.

Solder Creams are particularly suited for use with Resistance Soldering Units.

C1040 188 Solder Paint.

This is a suspension of No 188 solder powder in an active flux compound. From the modeler's point of view, its best use is for tinning steel. To use, clean both surfaces and apply a thin smear of paint to one side or else they can be dipped. The joint is then assembled, held and heated until the solder melts to show a silvery line through the black flux residues. Solder powder is obviously much heavier than the liquid flux, so, before using, be sure to give it a good stir.

C1044 100 °C Solder

For use with whitmetal - Does not require tinning

C1227 227°C Tin/Copper Solder

C2000 C1000 221°C solder supplied on a 0.5 kg reel

C20015 C1001 70°C Solder supplied in the form of a 0.25kg (Nominal) bar.

C2002 C1002 145°C Solder supplied on a 0.5kg Reel

C2003 C1003 179°C Tin/Lead/Silver Solder supplied on a 0.5kg reel

C2004 C1004 183-188° Solder supplied on a 0.5kg Reel

C2005 C1005 296°C Tin/lead/Silver Solder supplied on a 0.25kg Reel

C2005B C1005 296°C Tin/lead/Silver Solder supplied on a 0.5kg Reel

C2011 C1011 183°C Solder wire 0.5 mm supplied on a 0.25kg Reel

C2011B C1011 183°C Solder wire 0.5 mm supplied on a 0.5kg Reel

C2227 C1227 227°C Tin/Copper Solder supplied on a 0.5 kg Reel

Metal Blacking

C1062 Metal Black for Brass 50ml.

C1063 Metal Black for Brass 250ml.

Also suitable for use with Phosphor Bronze and Copper.

C1064 Metal Black for White Metal/Steel 50ml

C1065 Metal Black for White Metal/Steel 250ml.

C1066 Metal Black for Solder 50ml.

C1067 Metal Black for Solder 250ml.

Also Suitable for use with Lead and Pewter.

C1068 Metal Black for Nickel Silver 50ml.

C1069 Metal Black for Nickel Silver 250ml.

C1070 Metal Black for Aluminium 50ml.

C1071 Metal Black for Aluminium 250ml.

Apply with either a cotton bud or brush. Dilution 50:50 with water will slow down the process and give a finer finish. Plunging the part into water will halt the process.

Scenic Materials

Ballast.

A lightweight organic alternative to real granite ballast. Supplied in plastic jars to avoid wastage.

We recommend reference to photographic evidence and then the blending of different colours and sizes, to get the 'correct' feel to your ballast. Additional colouring, or weathering, can be done using our weathering powders.

C1152 2mm Scale ('N' Gauge) Light Grey Ballast 200 grams

C1153 2mm Scale ('N' Gauge) Light Grey Ballast 400 grams

C1154 2mm Scale ('N' Gauge) Dark Grey Ballast 200 grams

C1155 2mm Scale ('N' Gauge) Dark Grey Ballast 400 grams

C1160 4mm Scale ('OO' Gauge) Gravel Ballast 200 grams

C1161 4mm Scale ('OO' Gauge) Gravel Ballast 400 grams

C1162 4mm Scale ('OO' Gauge) Light Grey Ballast 200 grams

C1163 4mm Scale ('OO' Gauge) Light Grey Ballast 400 grams

C1164 4mm Scale ('OO' Gauge) Dark Grey Ballast 200 grams

C1165 4mm Scale ('OO' Gauge) Dark Grey Ballast 400 grams

C1166 4mm Scale ('OO' Gauge) Light Scotrail Ballast 200 grams

C1167 4mm Scale ('OO' Gauge) Light Scotrail Ballast 400 grams

C1168 4mm Scale ('OO' Gauge) Dark Scotrail Ballast 200 grams

C1169 4mm Scale ('OO' Gauge) Dark Scotrail Ballast 400 grams

C1185 4mm Scale ('OO' Gauge) Dark Ballast 400 grams

C1186 4mm Scale ('OO' Gauge) Dark Ballast 200 grams

C1170 7mm Scale ('O' Gauge) Gravel Ballast 200 grams

C1171 7mm Scale ('O' Gauge) Gravel Ballast 400 grams

C1172 7mm Scale ('O' Gauge) Light Grey Ballast 200 grams

C1173 7mm Scale ('O' Gauge) Light Grey Ballast 400 grams

C1174 7mm Scale ('O' Gauge) Dark Grey Ballast 200 grams

C1175 7mm Scale ('O' Gauge) Dark Grey Ballast 400 grams

C1180 Ash Ballast Any Scale 200 grams

C1181 Ash Ballast Any Scale 400 grams

C1182 Firebox Ash Any Scale 200 grams

Weathering Powders

Very finely ground pure pigments, as used in the ceramics industry, they have a slightly greasy nature making them ideal for rubbing into textured surfaces to create relief, depth or a permanent stain.

C1100 Rust & Coal Contains - Oxide, Dark Rust, Jet Black & Oily Black.

C1101 Shades of Mud Contains - Very Dark Brown, two lighter browns and a sandy chalk colour.

C1102 Spring Greens Contains - Four shades of Green, Two bright and two of a more natural tone.

C1103 Mellow Yellows Contains - Four shades, typical of dry grass and dead leaves.

C1104 Primary Tints Contains - White, Ultramarine, Bright Yellow & Strong Red.

Used to blend with the other powders to vary the hues and create subtle changes.

C1105 Grey Tones Contains - White, Black and two shades of Grey.

Ideal for creating dust effects and toning down paintwork.

Baseboard and Track

C1011 Baseboard Track End Protectors

C1012 Baseboard Track End protectors - 7mm, 10mm

A simple but effective way to prevent damage to the rail at the baseboard ends.
A secondary useage is to transfer power from one board to the other.



C1190 Tee nuts/bolts M6x60

Pack 4

Baseboard dowels hold the boards in perfect alignment, but obviously you will still need something sturdy and reliable to actually hold the boards together. Our product makes the tightening of baseboards nuts & bolts so much easier as we use a pronged tee nut along with a normal bolt.



C1191 Baseboard alignment dowels with screws

2 pairs.

Layouts that are regularly put up and taken down, be they club or exhibition layouts need some system to ensure that adjacent baseboards come together in perfect alignment. It is essential that all boards align perfectly each time they are placed together in order to ensure that the tracks are also in perfect alignment both horizontally and vertically. A simple and effective way to achieve this is by way of our Alignment Dowels. They are used in pairs and are attached to the end of each board. The dowels are round 25mm CNC machined steel male and female parts that come pre-drilled with three fixing holes per part.



C1192 Baseboard leg adjusters and feet

1 pair.

Once your baseboards are fixed together it is essential that a flat surface is then obtained whatever the state of the flooring where the layout is to be operated. You do not want to see rolling stock having a mind of its own simply because the layout is not level. The easiest way to make the adjustments to obtain a perfectly level top surface is to use feet that screw into a bracket mounted on the baseboard leg. Not only does this allow for fine adjustment it also means that it is a permanent fixing.



C1600 Track Rubber (4mm)

Single

C1601 Track Rubber (7mm)

Single

For day-to-day track cleaning, nothing beats a good track rubber. These have to be a compromise. Too abrasive and they will scratch the rail surface. Too soft and they will shed lumps of rubber over your track! The material we use was vigorously tested and selected after extended trials with numerous types of abrasives.

Baseboard Covering (Underlay)

Cork is a widely used track underlay. When sliced with a chamfer on its outer edge to represent the angled edge of the ballast on the prototype in not only looks impressive, but it is fast to lay, has an accurate profile and preserves your setting out markings. It may be curved to suit the plan required without further cutting.

Each pack contains 20 strips - each 2 feet long (610mm).

They are laid in pairs and therefore one pack will cover 10 x 2 ft = 20 feet of single track (6.1m). If used for double track then each pack will cover 10 feet (3.05m)

C1081 Sliced Cork strips for track base - with chamfered edge for realistic track base

C1082 Sliced Cork strips for track base - with straight edges

C1084 Sheet Cork - 305.00mm (12") x 914.00mm (36") x 4.76mm (3/16")

C1085 Sheet Cork - 305.00mm (12") x 914.00mm (36") x 3.00mm (1/8")

C1086 Foam Underlay 1m x 0.50m x 5.00mm

C1087 Foam Underlay 1m x 0.50m x 3.10mm (1/8")

C1088 Rubberised Cork track base 1m x 0.50m x 3.00mm

Fluxes

C1020 Red Lable Flux 50ml

C1021 Red Lable Flux 250ml

This is an organic flux compound, which is very active at low temperature. It is ideal for use with whitemetal, and is also suitable for other nonferrous metals. It breaks down at around 240 Deg C to leave non-corrosive residues. However, this should not be assumed and the joint should be rinsed or wiped with warm water.

C1022 Black Lable Flux 50ml

C1023 Black Lable Flux 250ml

This is a powerful general-purpose flux for steel and galvanised metals.

The residues should be neutralised with Neutralising Rinse and then washed off with warm water.

This flux is an equivalent to Bakers Fluid for steel.

C1024 Green Lable Flux 50ml

C1025 Green Lable Flux 250ml

Our biggest seller and for most modeler's the flux they instinctively turn to. It is suitable for use with steel, but not stainless steel, Copper, Brass, nickel silver and similar alloys. It is an active flux and leaves residues that are corrosive. For that reason, care should be taken to remove these. An initial wash in Neutralising Rinse followed by several washes with water should remove all traces.

C1026 Yellow Lable Flux 50ml

C1027 Yellow Lable Flux 250ml

This is the best flux to use when soldering whitemetal and is also effective on brass and nickel silver.

The formula of this flux has been changed. Newer supplies are to be found in a Plastic Bottle.

C1028 Orange Lable Flux 50ml

C1029 Orange Lable Flux 250ml

A non-corrosive flux, which should be used for jobs that cannot be washed, such as gearbox casings, track laying, and electrical wiring. This flux is compatible with speedy solder. It is ideal for wiring repairs where adequate solder is already present. The residues should be cleaned off with Cleaner Degreaser if it is intended to paint over the joint.

C1030 Brown Lable Flux 50ml

C1031 Brown Lable Flux 250ml

This is formulated for soldering most stainless steels and other difficult metals such as ni-chrome resistance wires. It is also good for piano wire, syringe needle tubes etc. Residues should be carefully washed away in warm water.

Caution! This flux is a strong acid. Please observe special precautions when using.

If spilt wash with copious amounts of water and neutralise with Neutralising Rinse.

C1032 Grey Lable Flux 50ml

This powerful flux will strip aluminum oxide and allow No. 179 Strip Solder to penetrate beneath, and fuse with the aluminum. This flux is also effective on a wide range of its alloys including 'Mazak', the zinc/aluminum die-casting alloy as used for model cars etc.

As soon as all joints are made, clean the job with warm water, wipe dry and seal with Electroxif.

Collections from shows

We are always willing to arrange collection of any item at a show subject to the following.

Please give at least 10 - 14 days notice of the items you wish to collect, (if the item is a 'special order' item 21 - 28 days might be required) this will ensure that your items are ready for you.

If someone else is collecting on your behalf either supply us with payment details so that we can charge the items before the show or ensure that the person collecting is aware of the cost of the order they are collecting.

The van is generally packed 2 -3 days before the first day of a show and will leave shortly afterwards.

For a Saturday and Sunday show the van will generally be packed on the wednesday and will leave during Thursday.

Miscellaneous Chemicals

C1009 Bitloos

This non-drying silicone heat transfer paste will prevent bits from becoming stuck in the iron. It also helps in the heat transfer from the element to the bit. Before using your iron and whilst it is cold, you simply wipe a small amount over the surface of the bit and/ or the heating element and insert the bit. When you switch the iron on afterwards, surplus Bitloos will ooze out of the iron. This is harmless and should be wiped off with a rag.

C1052 Neutralising Rinse 50ml

C1053 Neutralising Rinse 250ml

This is an alkaline solution, highly effective in use as a degreasing liquid and preventing corrosion from acid flux residues.

C1056 Surface Conditioner 50ml

C1057 Surface Conditioner 250ml

This solution has a twofold use. It is perfect for cleaning metals – particularly brass and nickel silver, prior to soldering and is just as effective as ACIDIP as the first step in the three stage blackening process.

C1060 Acidip 50ml

C1061 Acidip 250ml

Acidip dioxides and prepares metals for soldering, blackening and painting. It may also be used for cleaning up flux residues after soldering.

C1072 Electrofix 50ml

A lacquer, which will prevent Metal Black patinas from being rubbed away. It is used in electrical wiring to prevent a soldered joint from corroding. It will provide a low strength seal for nuts and bolts, where it is not desirable to use Loctite or similar compounds. It is essential for the protection of soldered joints to aluminum. *Note - MAY attack some plastics. Test before use and handle with care.*

C1075 Rail Clean 50ml

C1076 Rail Clean 250ml

Railclean is an acid based cleaner which will remove oxides and grease from nickel silver rail. It should be rubbed on with a cloth and allowed to dry. A thin coating of a non-oxidizing salt will remain, that will give increased adhesion and reduce sparking. One treatment should last for months.

C1079 Sleeper Stain 50ml

This is an acrylic based dye, matched to newly creosoted timber. It may be weathered to produce the grey tones of bleached wood and highlighted with Weathering Powders where required. Although designed for wooden sleepers, this stain may be used wherever timber is modeled on your layout. In particular it is very resistant to ultraviolet light and so does not fade under fluorescent light or sunlight like the common DIY wood dyes. If diluted with an Acrylic Thinning Medium, a thin wash will help to 'harmonize' ballast and sleepers.

C1201 Liquid Glass 50ml

This is a cellulose compound of high surface tension, which dries to a thin clear film. It may be used for windows up to half an inch square or for items such as umbrellas and signal lenses when coloured with a felt-tip pen, etc.

C1203 Transfix 50ml

Transfix is a softener for transfer carrier films. It allows the transfer to lie down over raised details such as planks, rivets etc. and to conform to double curvatures as on cars and aircraft models. It may also be used to fix and reposition "Pressfix" transfers after removal of the adhesive. After a coat of clear varnish the softened edges are no longer apparent.

C1204 Micro Grease 50ml

Flouro-silicone greases have a high retention (they do not fly off high speed gears) and low shear strength (low friction) together with a very high film strength for reduced wear and high bearing pressures. It is ideal for gears, particularly exposed ones and those where the surfaces slide, such as worm gears - so common in model railway transmissions.

C1205 Micro Oil 50ml

C1209 Micro Oil - Refill 50ml

Micro Oil is a solvent free, low viscosity oil, with good penetrating qualities, which will not affect plastics or rubbers.

C1501 Butanone 50ml.

C1503 Cleaner Degreaser 250ml.

C1503A Cleaner Degreaser 50ml.

Copperclad

4mm Scale

C5000	Copperclad Fibreglass Strips 80.00mm long x 0.60mm thick. Nominal Width 3.00mm	Previously C & L Part N° 4ZC101A	Pack 10
C5001	Copperclad strips 435.00mm long x 4.00mm wide x 1.00mm thick Previously C & L Part N° 4ZC101B		Pack 10
C5002	Copperclad strips 435.00mm long x 4.00mm wide x 1.60mm thick Previously C & L Part N° 4ZC101C		Pack 10
C5003	Copperclad strips 432.00mm (17") long x 3.30mm wide x 1.60mm thick Previously C & L Part N° 4ZC101D		Pack 10
C5006	Copperclad strips 432.00mm (17") long x 3.30mm wide x 1.06mm thick Previously C & L Part N° 4ZC101E		Pack 10
C5007	Copperclad strips 34.00mm x 3.30mm wide x 1.60mm thick (8' 6" x 10" sleeper size - thick)Previously C & L Part N° 4ZC101F		Pack 10
C5008	Copperclad strips 34.00mm x 3.30mm wide x 1.00mm (8' 6" x 10" sleeper size - thin)Previously C & L Part N° 4ZC101G		Pack 10
C5009	Copperclad strips 432.00mm (17") long x 3.00mm wide x 0.60mm thick Previously C & L Part N° 4ZC101H		Pack 10
C5010	Copperclad strips 34.00mm Long x 3.30mm wide x 1.60mm thick Previously C & L Part N° 4ZC101J		Pack 50

7mm Scale

C5004	Copperclad Fibreglass Strips 60.00mm long x 1.00mm thick 3.00mm wide Nominal Width 3.00mm	Previously C & L Part N° 7ZC101A	Pack 10
C5005	Copperclad Fibreglass Strips 435mm long x 7.00mm wide x 1.60mm thick Previously C & L Part N° 7ZC101B		Pack 10
C5011	Copperclad - Odd size pieces	Previously C & L Part N° 4ZC201Z	