

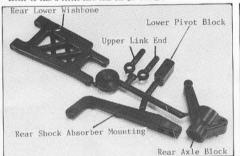
Welcome to the P B MAXIMA experience!

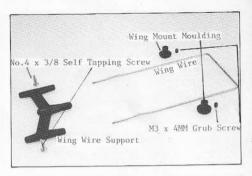
Ne have utilised our years of model car demign and menufacturing experience coupled with the data gained from racing the Mini Mustang to bring you this state-of-the-art 1/10 scale racing car. The power train efficiency of the P B MANIAM is second to none and the folly udjustable suspension system provides handling and ride to match the

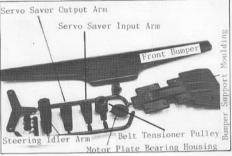
udjustable suspens, as years are intended as a guide to allow you to speed and power instructions are intended as a guide to allow you to These building interesting are in the bost time efficient way so construct this race winning car in the bost time efficient way so please build and we the car and described here and assess the "Istandard" set up before making any modifications which you may feel "Istandard" set.

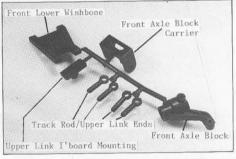
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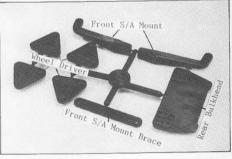
It is a good idea to assemble your car somewhere where you can leave everything undisturbed between building sessions. You could build your car in only two or three hours but it is far better to take a little more time and get it right.

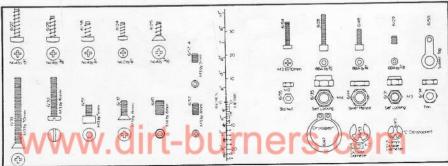












DIFFERENTIAL

PACKS
3/18 DIFFERENTIAL MOULDINGS
6/15 SELF TAPPING SCREWS PACK
1/15 SUPPLEMENTARY PARTS MAX-B

6/14 BALLRACE PACK 6/16 NUTS & BOLTS PACK

HELPFUL HINTS ON DIFFERENTIAL ASSEMBLY AND MAINTENANCE.

1. The SBA x 1/4 screw (6/48) which featens the half shafts together should be accewed fully into the long haif shaft prior together should be accewed fully into the long haif shaft prior together the shaft shaft with thread locking compound. When off any excess compound and resove the accew. Now lightly oil when of the shaft shaft with thread locking compound the shaft shaft its over. The shaft shaft its over. The shaft shaft its over. The differential may now be assembled and the accew re-fitted. NOTE The long half shaft should be HAND MELD when fitting the accew in order to avoid over tightening.

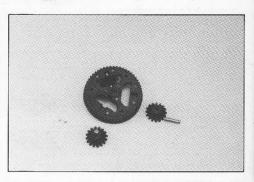
2. Using light oil lubricate all bearing and gent tooth surfaces of the differential i.e. Small bevel gears to their pins and long half shaft to large pulse. Small smouth of oil as it is important to prevent the belt and belt pulleys being "splashed" with lubricant as the differentials rotate.

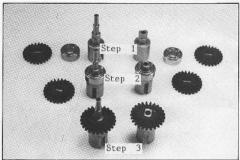
3. If there is any moulding "flash" protruding from the back (large diameter) tace of the small bevel gears then place the gear, large side down, on a sheet of fine sandpaper and using a circular motion, lightly sand the back until smooth.

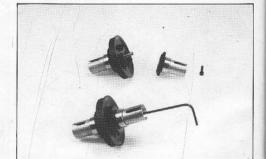
Ensure that the large belt pulley is a free, revolving fit on the long half shaft. If the pulley is tight then carefully ream the centre hole with a 4.1mm drill.

5. If the differential action is "notchy" after assembly re-mashing the large bevel gears in a different position relative to the small once may help. In any case don't worry, the differential will "smooth-up" after a couple of races.

For identification purposes, the pins for the small bevel gears are slightly too large a diameter to fit in the slot in the helf shafts.









ASSEMBLY INSTRUCTIONS

Open one of the "differential mouldings" packs (3/18) and remove the components from the runner taking care to trim off any moulding excess perticularly where the gears are connected to the runner.

from the supplementary parts max-B (1/15) take three pins 2.5mm diameter. S.dmm long(6/36). Fams a pin through one of the small diameter. S.dmm long(6/36). Chest that the bovel gear rotates freely. Gifferential pulley. Check that the bovel gear rotates freely. Repeat for the other two small bevel gears. If the small bevel gears do not rotate freely it may be that the back of the gear is not smooth (see Mints) or that the bole for the pin is slightly small. A light chamfer at each end of the hole should solve the problem.

Now take a long half sheft (3/22) and a short half sheft (3/23) from the supplementary parts max-B (1/15). From the ballrace pack (6/14) take two fams by lams ballraces (6/20) and fit them fully onto the two half shefts. Now fit the large plastic bevel gears to the half shefts so that the large diameter back of the gear fits against the ballrace.

Lightly chamfer the edge of both sides of the central hole in the large differential pulley. Push the long half shaft through the technique of the large differential bulley. Bush the long half shaft shaft verther the three shall bevel gears with these of the large bevel gear. Check that the assembly turns freely. Now fit the short half shaft over the protruding end of the long half shaft and secure with a 68A x 1/4" socket screw (6/48) taken from the nuts and boths pack (6/12). This screw fits through the short half shaft and into the Chreaded hole in the end of the long half shaft. And into the Chreaded hole in the end of the long half shaft. And into the Chreaded hole in the end of the long half shaft.

The separate large pulley flange should now be fastened to the pulley with three no.2 x 1/4 pan head self tapping screws (6/24). Note that the chamfered edge of the flange should face towards the pulley. Repeat the above procedure for the other differential.

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FRONT AXLE BLOCKS, AXLES AND SUSPENSION PACKS

2/65 FRONT SUSPENSION MOULDINGS

2/65 FRONT SUSPENSION MOULDINGS
1/14 SUPPLEMENTARY PARTS MAX-A
2/17A U/J AXLE/D'SHAFF PACK (ONE WAY)
6/14, BALLRACE PACK MAXIMA
6/14 FRONT S/A MTG.-REAR BULKHEAD-WHEEL DRIVERS

HELPEDL HINTS WHEN ASSEMBLING FRONT AXLE BLOCKS

1) DO NOT use a 4mm tap to thread the kingpin holes as you will weaken the finished assembly.

The exle should have about 0.8mm to 1.0mm end float when assembled but before fitting the wheel driver.

Do not over-tighten the wheel nuts onto the wheel drivers as you will cause damage.

ASSEMBLY INSTRUCTIONS

AGEPHILY INSTRUCTIONS

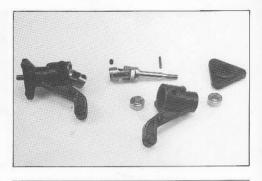
Remove all the houldings from the front suspension mouldings pack (2/65) and remove any excess "flash". Fron the ballrace pack (6/14) take two 5mm inside diameter x 10mm outside diameter ballrace man for the ballrace pack with the outside outside diameter ballrace man flash ballrace pack with the word was a samelly (2/18) and push all the way on. Now it the axley ballrace assembly through the large diameter side of the axle block, through the ballrace in the small side and push fully home. The outer ballrace may now be fully inserted and, taking a draph the cross hole in the outside end of the axle. The pin will start from one side easily but may require pleers to push to its final position with an equal amount protrolled richer side of the axle.

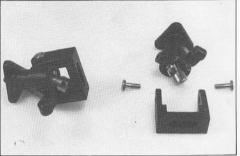
pin.

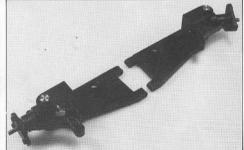
Temporarily fit the M3 by 4mm grub screw from the U/J Axle pack, to
the inboard end of the universal joint.

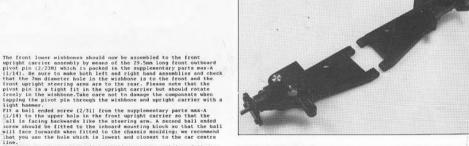
From the supplementary parts max-A (1/14) take two 10.5mm long by 4mm diameter King pin boits (2/68) and check that they are a free fix in the top and bottom holes in the from upright carrier, if not then the holes should be reased with a 4.1mm drill. The front artifold oxide that the steering are not the upright is on the same side of the carrier as the drive shaft clearance slot. Use the two kingpin bolts (2/68) to "mell tap" into the upright to secure the assembly. The kingpin bolts (2/68) to "mell tap" into the upright to secure the assembly. The kingpin bolts should be tightened until there is approximately 0.3mm clearance between the head of the bolt and the upright carrier. Check that the upright will swivel freely in the carrier.

Repeat the above assembly sequence for the other front upright /axle/ carrier.





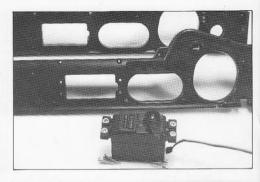






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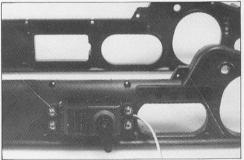


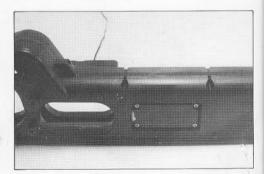


CHASSIS MOULDINGS & DRIVE PACKS 4/10 BUMPER & B°CRANK 1/15 SUPPLEMENTARY PARTS MAX-B 6/15 SELF TAPPING SCREWS MAXIMA

1/11 CHASSIS MOULDINGS 6/16 NUTS & BOLTS-MAXIMA

Before assembling the chassis mouldings it is a good idea to fit your steering serve to the left hand side chassis moulding. The left hand side moulding is the then she has the rained proceedings on the size of your serve it may be necessary to make an additional on the size of your serve it may be necessary to make an additional on the size of your serve it may be necessary to make an additional one of the serve it was to be set of your serve does not protrude more than imm above or Zam lower than the moulded hole. If the serve lead comes from the bottom of the serve case it may be necessary to cut the right hand side chams moulding.

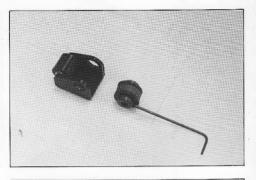




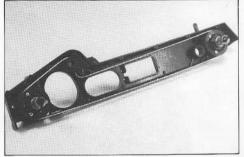
IDLER PULLEY/BRACKET ASSEMBLY
From the "bumper 4 bellcrank pack" (4/10) remove the 12mm
diameter by 11.5mm long belt tensioner pulley. After removing any
excess moulding "flash" fit a 6mm by 2mm flamped ballrace(6/59) from
the ballrace pack (6/14) to either side of the pulley and using the
2mm diameter by 20mm long pin (3/69) and the belt adjuster carrier
(3/31) from the "supplementary parts max.B" (1/19) fit the pulley to
the belt adjuster carrier.
Check that the pulley ansembly rotates freely.



BELT INSTALLATION BELT INSTALLATION
Fit a M3 by 4gm grub screw (6/57) to the 24 groove belt drive pulley
and make sure that this screw is on the uppermost side of the pulley
during the assembly process. This ensures that the grub screw will
align correctly with the flat provided for it on the laysheft.



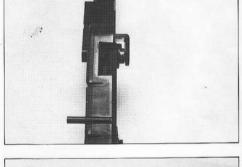
Take the left hand charmis moulding (the mide with the battery contact fitting moulded in) and install the from and test (1/17) and the best should be routed around the various transmission components.



It is important that the belt tensioner assembly is located on the raised boss inside the chassis moulding.

The results of the chassis moulding are fixed together. Toking care that the main pulsey and the belt tensioner are correctly positioned install the right hand chassis mouldings are fixed together. Toking care that the main pulsey and the belt tensioner are correctly positioned install the right hand chassis mouldings and accure with five No.2 x 1/4* self-tapping screws and three NI by 10mm the fixing holes at the extreme front and rear of the chassis mouldings and adjacent to the belt tension adjuster screw are intended for N2 by 10mm bolts and muts. The bolts should be fitted the nuts from the other wide, the front and rear nuts will locate in the hexagonal holes provided.

The fixing has been been self tapping screws or you will strip the chassis moulding, if you do strip the screws it is easy to explace it is necessary to stick two tape round the inside of the battery and motor holes in order to close off the upp between the chassis soulding, the mount of the continuation of the



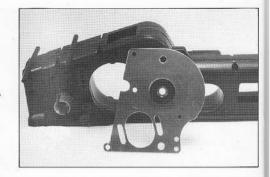


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MOTOR PLATE AND LAYSHAFT
PACKS
1/15 SUPPLEMENTARY PARTS MAX-B
4/10 BUMPER & BELLCRANK PACK
6/16 NUT & BOLT PACK

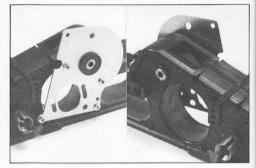
6/15 SELF TAPPING SCREWS PACK 3/14 SINGLE SPEED PACK

Take the 17mm diameter bearing housing from the bumper and bellcrank pack and install a 4mm inside diameter by 8mm outside diameter billraces then fit this assembly into the motor plate, check that you have the bearing in the correct side of the plate - see photograph. If the bearing housing is loose in the motor plate then apply a small quantity of cyanoscrylate glue to the assembly to quarantee a firm location.

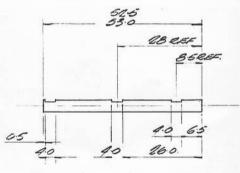


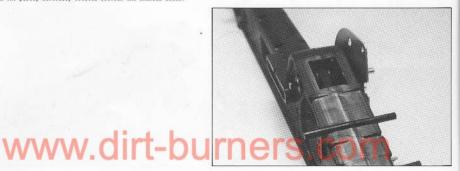
The motor plate assembly should now be fitted to the chassis mouldings assembly with four no.4 x 1/4" pan head acrews as shown.

Fit a 4mm inside diameter by 8mm outside diameter ballrace to the left hand side chassis moulding (opposite the motor plate bearing).

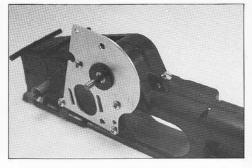


Take the layshaft (3/34A) from the single speed pack (3/14) and identify the right hand (drive) end, it has a 6.8mm long section before the first location flat. The drawing shows the positions of all the location flats. Bloiding the right hand end of the layshaft pass the other end through the motor plate bearing, the main drive pulley and the bearing in the left hand chassis moulding. Mith Jimm of the layshaft porrousing from the motor plate bearing, locate the pulley grubscrew on the last provided and temporarily tighten down, with the pulley centrally located between the chassis sides.

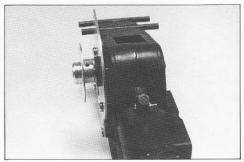




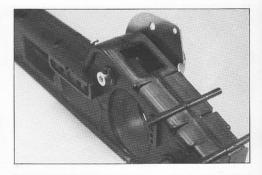
From the nuts and bolts pack (6/16) take a 3m dismeter by 16mm long bolt (cheese beed) and screw it into the angled hols formed by the two chansis sides just in front or the layshaft. This screw is the belt tension adjuster, please take care when first inserting this bolt that it correctly locates on the belt tensioner carrier. Preliminary belt tension adjusters hold between carrier. Preliminary belt tension adjusters hold between finger and thumb and gradually tighten the adjuster screw; the belt resistance will tension fairly constant until it is over-tight when you will test a significant increase in the "rolling resistance". New isomen the unjuster screw; (probably around half a turn) until the resistance externs to nermal.



Take the 1.8mm long spacer (3/73) from the single speed pack (3/14) and fit it to the motor plate end of the laymhaft, the gear carrier (3/62) should now be fitted with the circlip grove lacing away from the motor plate. When the gear carrier is touching the spacer and the main drive pulley (3/17) is central in the chamsis mouldings (not touching either side), secure the gear carrier by means of a M3 by was grub screw which should locate on the flat provided on the laymhaft, it may be necessary to slightly closerated, be main drive pulley; in order to obtain the examinative course of the secure of



The firm outside diameter by 4mm inside diameter collar (3/37) may now be fitted to the other end of the layshaft and secured with a M3 by 4mm grub screw. Adjust this collar to allow about 0.2mm (0.000inches) side to side movement of the layshaft.

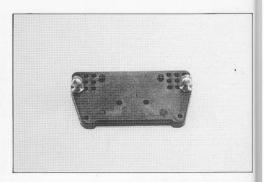


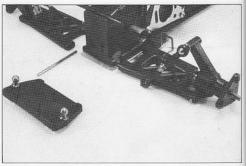
The plastic ring gear should now be taken from the single speed pack and checked for soulding flash. It is a good idea to lightly changer the edges of the the gear should now be fitted to the gear carrier and the three locating pips on the gear gear should now be fitted to the gear carrier and the three locating pips on the gear (6/47) to secure the quar in place. Check that the circlip is correctly fitted in the groows in the gear carrier.

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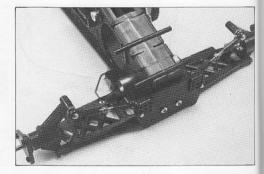


From the (ront shock absorber mounting mouldings pack (2/64) take the rear buildhead and, from the supplementary parts max-A (1/14) take two Jam long by 3/72 inch diameter inboard pivet pins (2/23) and two ball ended screws (2/31). Screw the ball ended screws into the rear buildhead so that the balls are on the same side of the moulding the screws of the contrast of the contrast





The inhourd ends of the upper suspension link may now be snapped into position on the previously fixed bail ended screws. Please check that the suspension movement is free and not binding or stiff.



STEERING LINKAGES/SERVO SAVER PACKS 1/14 SUPPLEMENTARY PARTS MAX-A 2/65 FR 4/10 BUMPER AND BELLCRANK MOULDINGS PACK 6/16 NUTS AND BOLTS PACK-MAXIMA FRONT SUSPENSION MOULDINGS

From the numplementary parts pack max-h take the two short 3m diameter color with a thread at each gad. Takes are the front track rods and should be fitted with a track rod moulding, (rom the front unypersion mouldings (2060), at each end. Screw the mouldings on to the treatwist and until the overall lempth of the awasebby (w \$2.5 mm).

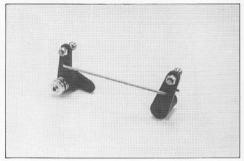
Fit a ball ended screw $\{2/31\}$, from supplementary parts max-A $\{1/14\}$, to the underside of each front axic block steering arm.



Remove the servo saver and idler arm mouldings from the bumper and belicrank mouldings pack (4/10). The 24.3mm long by 5.6mm diameter headed, alumning servo saver bush (2756) and the 17mm long by 4mm diameter steel belicrank poor (757) and the 17mm long by 4mm diameter steel belicrank poor (757) and the 17mm long servo saver adjuster ring (2/35) and the 10mm diameter alumning servo saver adjuster ring (2/35) and the 10mm diameter by 10mm long servo saver spring (2/36). Assemble the servo saver as shown and fully hand tighten the adjuster ring. The spring will appear to be fully compressed but actually there will scill be sufficient servo protection.

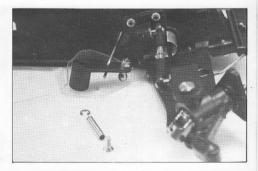


Take two ball ended acrews [2/31] from the supplementary parts $\max \lambda$ [1/14] and fit them to the underside of the servo source and interring idler arm mouldings as shown, necuring them with M3 self locking nuts [com the nut 4 bolt pack [6/16]. He has nure that the 1.5ms diameter apring wire cross link fits into the smaller boles in the idler arm and servo source mountages. The the smaller boles in the idler arm and servo source mountages. The shown is the smaller boles in the idler arm and servo source mountages. The interest is the interest of the servo servo should be a since the servo servo should be a since the servo servo should be should be precoving all material outside the outside hole as shown. Brill the remaining hole as settletied above.



Fit the 1.6m diameter spring wire steering cross link from the supplementary parts max.4 (1/4) to the steering idler as shown. From the note a bolts pack take the M3 x 3ms countersumk screw (6/23), the M3 x 8ms countersumk acrew (6/23), and M3 this nut (6/34), and the 6ms outside diameter 2m cljp (6/40).

Fann the other end of the group link through the hole in the changin mouldings just below the front upper wishbone.



The steel bolicronk post (2/57) should now be passed down through the idler arm and secured to the chassis with the MX x Smm countersunk screw. Secure the idler arm with the 5mm outside diameter $T_{\rm c}$ (dip.



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The servo saver should now be engaged with the cross link. Pass the Jam x Jahm counterpunk bolt up through the chaosis plate, through the Carlot with the pass of the counterpunk to the counterpunk that the pass of the counterpunk that the pass of the counterpunk that the counterpunk that the counterpunk that the secure that the servo saver unsembly should be free to pluvo on this bolt but should have uninsmu up and down novement.



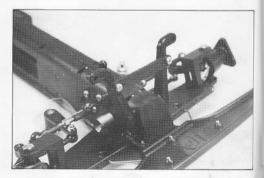
The front track rods should now be fitted to the serve saver; steering idler; and axle blocks, as shown.

NINT:- If the plastic track rod ends are tight on their ball headed acress then sipping the plastic across its diameter wi pliers will easily adjust the fit to give free movement with virtually no slop.



SHOCK ABSORRER MOUNTINGS PACES 2/64 FRONT S/A BRET. / REAR B'HEAD; WHEEL DRIVER PACK 2/66 FREAR RESIDENSION MOULDINGS 6/15 SELF TAPPING SCREWG PACK 4/11 WING MOUNTING PACK

Take the two front shock absorber mountings and their brace from the front shock absorber bracket pack (2/64) and four No.4 by 3/8 pan from the front shock absorber bracket pack (2/64) and four No.4 by 3/8 pan the front shock absorber bracket as the four longer screws, secure the front shock absorber brackets to the four longer screws, secure the front shock absorber brackets to the four longer screws, secure the front shock absorber brackets to the four longer screws, secure the front shock absorber brackets to the four shock absorber brackets of the front of the sountings by scena of the two shorter screws. On he front of the sountings by scena of the two shorter acrews.



From each of the two rear suspension mouldings packs (2/66) take a rear-shock absorber mounting bracket (longer than the front mountings) and from the wing mount pack (4/11) take the wing and pack (4/11) take the wing some pack (4/12) take the stage of the second of the front mounting pack (4/14) take the second of the front mounting second two from the wing mounting pack (4/11). Secure the rear mountings to the chassis mouldings in the same way as the front mountings again to the chassis mouldings in the same way as the front mountings again to the chassis mouldings in the same way as the front mountings again to the chassis mouldings in the same way as the front mountings again to the chassis mouldings in the same way as the front mountings again to the chassis mouldings to the chassis mounting by means of two 7/8 long self tapping screws.





SHOCK ABSORBERS ASSEMBLY

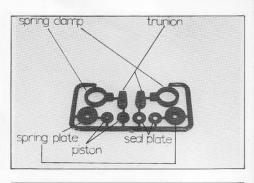
CHOCK ABSORRES Assurement
Contents:
2 x Bodics 2 x Shufts.
2 x End Cop 1 x Mouldings Set.
2 x End Cop 1 x Mouldings Set.
4 x No.2x1/4 screws
4 x No.2x1/4 screws
4 x Ter Clips 2 x Large Black To Rings
4 x Ter Clips 2 x Large Black To Rings

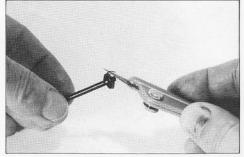
PACKS

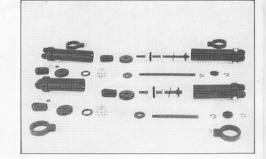
2/13 FRONT SHOCK ABSORBER (SHORT) 2/14 REAR SHOCK ABSORBER (LONG)

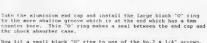
Remove all the plastic components from the runner. photograph shows the names of all the components.

The shock absorber pistons (which have two small holes through them) should be very carefully declashed. If I is a good idea to any lind this cauler after the piston is fitted to the small can any lind this cauler after the piston is fitted to the small. Anneable as "E" clip to one of the grooves on the piston red then lit a pitton and occure with a second "E" clip.









Now lit a small black 'O' ring to one of the No.2 x 1/4' screws. Ithis should be fitted in the side of the large dismeter upper end of the shock absorber body and acts as a bleed screw. Of the shock absorber shaft and, after lubricating with oil. follow this with a white "O' ring (silcome). Now lubricate the 6mm dismeter block in the end cap and install the end cap on the shaft. Cartefully push the white "O' ring (silcome). Now tho 6emm dismeter block in the end cap on the shaft.

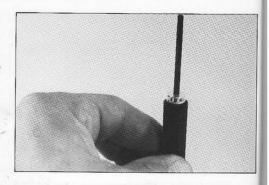


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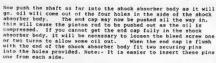
The following procedures will cause some oil to be spilled so you may wish to pur paper or rag onto your workbench to protect it. You will also need some absorbent paper or rag for wiping your hands.

Holding the whock absorber body vertical, fill it with the oil which you have selected (see below) to a level 7.5mm below the top. There is a small shoulder inside the shock absorber body at this point.

Slowly insert the piston rod assembly (piston first) into the oil trying not to top any air bubbles. The end cap should be pushed into the Shock acreer body until the black "O" ring has just entered the hole.







Now stand the shock absorber vertically with the bleed screw at the top. this will allow any remaining air to collect next to the bleed screw. After about five minutes you should locen the bleed screw (Keeping the shock absorber vertical) and press the piston rod upwards rully in the shock absorber, some oil will be pushed out of the bleed screw. Now tighten the bleed screw. After about a first press the piston rod upwards rully in the shock absorbers. The hydraulic part of the shock absorbers. The hydraulic part of the shock absorber is now complete and you may proceed to fit the spring mechanism.

OIL

For average outdoor tracks in temperatures between 17 and 25 degrees centified 87 90 deer oil will provide muttable damping for initial set op. 16 is very important to vary the "stiffness of your shock absorbers to autit the particular track. To assist you in this we have kept the price of additional shock absorbers to a minimum in order that you may carry a range of pre-filled units of differing grades.

MAINTENANCE

After a long period of use you may wish to renew the seals in your shock absorbers and a "first aid kit" is available, part no. 2/15 which includes the "O" rings, the end cap, and the end cap retainer pins.



SHOCK ABSORBER FITTING

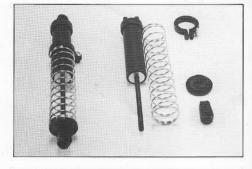
PACKS

2/12 SHOCK ABSORBER ACCESSORY MOULDINGS 1/14 SUPPLEMENTARY PARTS MAX-A 2/13 FRONT SHOCK ABSORBER PACK 2/1

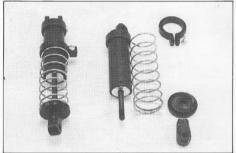
2714 BEAD SHOCK ABSORRED PACK

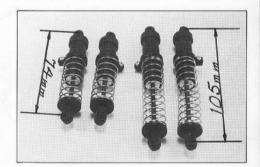
Take the two long (rear) shock absorber and fit spring clamps with No.2 x 1/4" screws. Make sure that you make one left and one right hand shock absorber as shown.

Now select the two long springs from the supplementary parts max-A (1/14) and (it them over the shock absorbers. The spring plate should now be fitted with the square recess facing away from the shock absorber body. Push the spring plate and spring a little way up the piston rod and, taking care not rod assage its surface, grip the rod with pliers. The trunnion may now be screwed onto the piston the content of the state of the same state of



Repair this operation for the two short if cont shock absorbers but this line suce that two short spirings from the supplementary parts $\max_i A_i(1/18)$. Adjust the distance between the centres of upper and lower mounting holes to be 74mm. As for the rear shock absorbers, please check this adjustment corefully and ensure that both units are identical.





Now iit the short shock absorbers to the front edge of the front lower wishbones using two no.4 x 1/2" self tapping screws. Fit the screwm into the hole next to the most outboard hole. Please make sure that the screw is not so tight as to prevent the screw is not so tight as to prevent the screw is not so tight as to prevent the screw is not so tight as to prevent the screw is not so tight as to prevent the screw is not so tight as to prevent the screw is not so tight as to prevent the screw is not so tight as to prevent the screw is not so tight as the screw is not screw is not so tight as the screw is not screw in the screw in the screw is not screw in the screw is not screw in the screw in the screw in the screw is not screw in the screw in the screw in the screw is not screw in the scr

At the upper end the shock absorbers should be fixed to their brackets so that the spring clamp screw is outboard and facing forward. Fix the shock absorber with an M3 x 16mm bolt and M3 welf locking nut.

The rear shock absorbers should be fitted in a similar manner except that, the apring clamp screws should be inboard and facing the back and the lower mounting screw should be located in the wishbone.



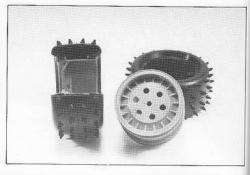
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WHEELS AND TYRES

BUBBLE PACK IN KIT BOX

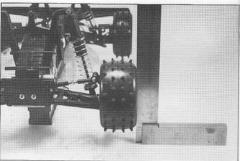
The wider tyres and hubs are for the rear of the car and the nationer once for the front. The bottom of the tyre sidewall locates in the outer grooves in wheel ris, as shown in the photograph, where it is not essential, you may prefer to glue the tyres in which is not essential, you may prefer to glue the tyres in you to make four holes are provided in the wheel riss to allow you to make you to make the tyres are type; and the without removing the tyres.

Secure the wheels to the axles by means of the M4 self locking nurs tuken from the nurs and holts pack (6/16). Do not over-tighten these nurs as this will cause damage to both wheel and wheel driver.



INITIAL SUSPENSION ADJUSTMENT

Institute Expression Adjustments and the second control of the chassis is parallel to the surface of the table upon which you are working and no that the wheels will not touch the table. Adjust the front and rear upper links until all four wheels are upright. Please front and rear upper links until all four wheels are upright. Please front and rear upper links until all four wheels are upright. Please isotating it a half turn of an anguar and re check each wheel after lotating the sheel then remove the wheel and its triangulor wheel driver and re-fit them eiter rotating the driver relative to the sale. Please do re-fit them eiter rotating the driver relative to the sale. Please do the sale of the sale of



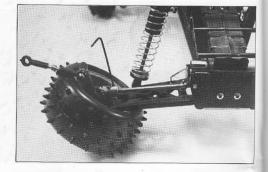
DRIVE SHAFT INSTALLATION

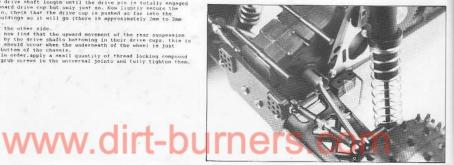
2/16A UNIVERSAL JOINT PACK (STANDARD) 2/17A UNIVERSAL JOINT PACK (ONE-WAY)

REAR DRIVE SHAFTS

PRANE DRIVE SHAFTS

Take the steel drive shaft assembly (2/19A) from the universal joint pack islandard) (2/10A) and fit the XS grub screw to one of the rear pack islandard) (2/10A) and fit the XS grub screw to one of the rear pack islandard) (2/10A) and fit the XS grub screw to one of the rear pack islandard islan





FRONT (ONE WAY) DRIVE SHAFTS

PROST COUL MAY) BILLY SHAPES

Histonmect one end of the upper suspension link and insert the

Histoned and of the kind dismeter steel shalt 12/9000 into the front

Histoned and of the kind dismeter steel shalt 12/9000 into the front

Histone tube from the universal plant of the property of the steel shalt to prove the front the universal joint

pack (22/10) and cut a Sim long piece, this is to be fitted into the
ishood drive cup and acts as a threat pack the fitted into the
ishood drive cup and acts as a threat pack the shalt to

now any assensibly fully pushed onto the drive shalt.

One way assensibly fully pushed onto the drive shalt to

rotate freely in a forward direction and that it locks in the

reverse direction. If the one way action is smootrect then fit the

chits one may assensibly find but the drive free shalt to

rotate freely in a forward direction and that it locks in the

reverse direction. If the one way action is smootrect then fit the

chits one may assensibly find but the charge of the pand the upper suspension

link re-installed. With the suspension in the fully drouged position

locke the Mi grub screen in the universal John assensibly and adjust

the length of the steel shaft until the one way assensibly in just

the length of the steel shaft until the one way assensibly and adjust

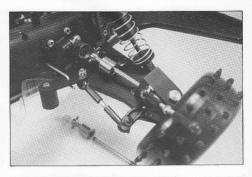
the length of the steel shaft until the one way assensibly in Just

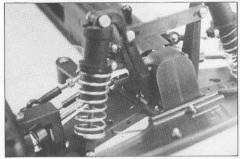
the length of the steel shaft until the one way assensibly and adjust

the length of the steel shaft until the one way assensibly in the charges may assensibly.

Repost the questions described above for the other front drive shaft

assensibly.







P) name check that both one way assemblies remain in contact With their thrust pads at all positions of the suspension, valuer to correctly udjust the length of the steel shafts may result in damage to, or loss of, one or both one way assemblies.

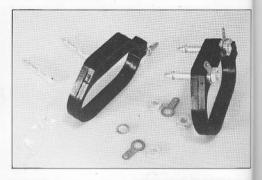
MOTOR PINION	RING GEAR			
	54.00	56.00	58.00	60.00
11.00	10.85	11.25	11.65	12.05
12.00	9.95	10.31	10.68	11.05
13.00	9.18	9.52	9.86	10.20
14.00	8.52	8.84	9.16	9.47
15.00	7.96	8.25	8.55	8.84
16.00	7.46	7.74	8.01	8.29
17.00	7.02	7.28	7.54	7.80
18.00	6.63	6.88	7.12	7.37
19.00	6.28	6.51	6.75	6.98
20.00	5.97	6.19	6.41	6.63
21.00	5.68	5.89	6.10	6.31
22.00	5.42	5.63	5.83	6.03

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BATTERY CLAMPS AND CONNECTORS

PACKS
1/15 SUPPLEMENTARY PARTS MAX B 7/15 BATTERY CLAMP SET
6/15 SELF TAPPING SCREWS PACK 7/16 BATTERY CHARGE SOCKET

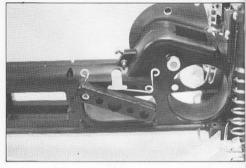
From the battery clamp act (7/15) take the battery clamp moulding and fit a No.4 x 3/8" self tapping acrow which acts as a pinch bolt. When the clamp is fitted to the car this pinch bolt should be to the car. Fit the two silver plated, pointed, contact pins (3/66) to the clamp plate so that the pointed ends will face the centre of the car. Secure the pins with two silver plated M4 thin nuts then fit two solder taps followed by two more silver plated M4 thin nuts.



The black plantic key plate, and two silver plated contact springs should now be taken from supplementary parts max-B (1/15). Two No. x $1/2^{-n}$ screws should be taken from the self tappers pack (6/15).

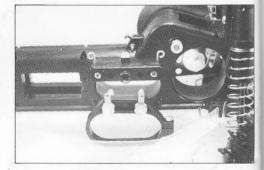
fit one of the springs into the recess provided in the key plate and pans a No.4 x $1/2^{\circ}$ self tapper through from the side marked with a sign. This assembly should now be fitted to the left hand chassis moulding and the screw used to secure the key plate but not fully tight. The key plate should be able to twist downwards on the screw.

Now fit the release catch to the recess in the chassis side and the second contact apring.



Now twist the key plate anti-clockwise until the top of the plate lines up with the cheasis moulding. Secure the plate with a second lines up the plate with a second lifthe release catch "binds up" when these screws are tightness either uncores them slightly or remove the other and sand or file it to make it thinner, and then re-assemble catch and sand or file it

The release spring, which is dark in colour, 8.4mm outside dismeter and 8mm long, should be taken from the supplementary parts max-8 (1/15) and fitted into the hole in the outside of the key plate. Use a small amount of epoxy or cyanoscrylate glue to fix this spring.



BATIRRY CHARGE SOCKET
Pack [77.46] contains all the parts required to assemble a charging socket which should be built-up in the mame way as the key plate/charsis assembly.

The battery clam, assembly should now fit into the key plate/contact spring assembly or the battery charge sooket. You Will mee on the outside face of the key plate that the front contact is marked with (:) Flus and the rear on with a (:) Allums sign these are the recommended battery polarity connections for both key plate, battery clamp, and battery charge socket.

When fitting your nicad pack into the battery clamp it may be necessary (depending on your particular pack) to put two or three layers of tape on the nicads in order to obtain a secure fitting of the clamp.

If the contact pins are a little stiff in the key plate simply remove the key plate and enlarge the contact pin clearance holes slightly.

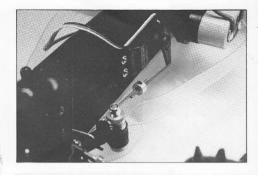


STEERING LINKAGE/RECEIVER MOUNTING

1/14 SUPPLEMENTARY PARTS MAX-A 6/16 NUTS AND BOLTS MAXIMA

The Steering serve should now be fitted to the previously prepared left hand chassis moulding.

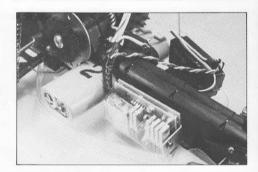
Fit one of the mervo links to the mervo and the other to the mervo paver. The two links should overlap in the centre and an almointum collar (1/29) and M3 grub nerve are used to secure and adjust the linkage. The collar is from supplementary parts max-A (1/14) and the grub merse in from the nut and bolt pack (6/16)





SPEED CONTROLLER - ELECTRONIC OR RESISTOR

The photographs show where the speed controller or resistor should be mounted. Both systems are fixed to the chapsis or chassis movalings with self-adhesive "velce" strip. Solder the resistor/speed controller input leads directly to silver plated contact springs. The contact spring at the front should be used for the spoilive connection as shown on the key plate. If you find soldering a problem them a nut and boil tising may be employed. To convex the remistor/speed controller simply diamantle the key plate assembly.



MOTOR CONNECTION AND INSTALLATION

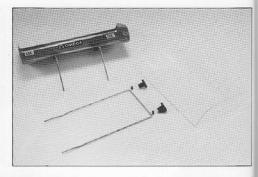
NEODR CONNECTION AND INSTALLATION
In order to allow simple sever change, a plup and macket
assumpment is excemended between speed controller and motor,
Solder the battery wires directly to the tage on the battery
clamp as shown but please remember that the terminal mearest the
front of the car should be positive (*) and the rear-most one
should be megative (-). This polarity will be correct if you
speed controller.
The motor may now be fitted to the motor plate by means of two M3 by
ame cap head screws and two M3 washers, all taken from the aut and
obtined (6/16). The slots in the motor plate use of different
size ring gears and pinions.
Take the motor pinion and the M3 by Jam grub acrew from the size
speed pack (3/14) and fit the pinion to the motor shaft in the
speed pack (3/14) and fit the pinion to the motor shaft in the
speed pack (3/14) and fit the pinion to the motor shaft in the
speed pack (3/14) and fit the pinion to the motor shaft in the
speed pack (3/14) and fit the pinion by means of the M3 by Jam grub
screw.



BODYSHELL AND WING PACKS 4/27 BEE JAY BODYSHELL 4/11 WING MOUNT PACK

4/25 WING

Trim the wing as shown and make two holes where marked for the wing mountings. Bend the wing wire (4/31) as shown, approximately 90em from the open end, and fit the wire to the wing wountings. The wing may be slid buckwards and forwards along the horizontal section of the wing wire in order to adjust the actobymanic effect. The wing proposed to the wing wire of the wing wire fitted to the wing wire of the wing wire wire with the windermeath aids of each wing wounting.



The bodyshell has a trim line marked to assist you and, using small tin snips or strong acissors, the shell should be cut as shows.

Painting lexum or polycarbonate bodyshells in best done using one of the paints, such as Mobbyknos or Parma, which are specially irrulated for this material. Paint the bodyshell on the inside in order to allow the natural gloss of the lexam provide the inverse of the paints of the lexam provide the recember that some paints wild attuck the lexam and render it very brittle and that other paints may not adhere to the shell correctly and will fall off at the slightest provocation. The two John long pieces of "velce" to provide left and right hand fixings between the wideot part of the undertray and the lower edge undertray and help to keep dirt away from the space inside the obeli.





SETTING UP AND HANDLING ADJUSTMENTS

If you have tolicked the instructions when building your Maxima you will find that the car handles in a delightfully process the process of the state of the car to adjust the drive "feel" of the ear to match you can adjust the drive "feel" of the ear to match your driving style and local track. Please remember to make adjustments ONE AT A TIME so that you know the result of each one.

The front track rods have been carefully positioned to minimise steering changes due to suspension deflection caused by bump or roll.

The "amount" of steering available may be varied by adjusting the length of the track rods.

As standard the front wheels will be pointing straight ahead, it is possible to increase steering by lengthening the track reds slightly to make the front wheels 'toe in'. (The rear edges of the wheels are further apart than the front edges). This adjustment will cause the outside wheel to turn to a greater angle at full lock and so increase the available steering.

On the other hand, if you make the front track rods mightly longer than standard the wheels will 'toe-out' and this will decrease the maximum steering availability.

Du not make large adjustments to toe-in, toe-out - you will notice a difference with surprisingly small changes in track rod length.

"Camber angle" is the amount by which wheels (front or rear) lean in at the top (negative camber) or lean out at the top (positive camber). You will see that your Maxima has negative camber at the rear and is neutral at the front.

By adjunting the upper sumpomalion links it is possible to change the camber settings on each wheel but planes remember 17 YOU CHANGE THE CAMBER SETTING IT WILL BE NECESSARY TO BE ADJUST THE DRIVE SHAFT.

As you reduce the negative camber so the tyres will have less grip. In this way you con encourage your car to slide more than normal and so ulter the drive "feet".

CAMBER CHANGE

The Maxima has provision for you to change the tate at which camber is altered as the suspension movem, the upper suspension links may be located in soveral different positions. The general rule is that the located in soveral different positions. The general rule is that the sourcing point of the inheard end of the upper link the greater the camber change. Thus you can see that on the Maxima you have the solitive to move the upper link inhoard sounting point in or out, to provide for longer or mburst upper link and/sor.up or down to provide The greater the rate of camber change the greater the grip is the busilt rule here and this applies whether you are adjusting front or ever suspension. PLASE REMEMBER THAY IF YOU ADJUST THE MAXTE OF CAMBER CLIMOS YOU MUST BE ABJUST THE MAXTE TO CAMBER CLIMOS YOU MUST BE ABJUST THE MAXTE TO CAMBER CLIMOS YOU MUST BE ABJUST THE MAY END THE THE TOWN THE MAXTE LINCTH.

ANTI ROLL BARS By fitting harder (thicker) anti roll bars it is possible to reduce the grip of the tyrem and, by fitting softer (thinner ones), you can increase grip.

Narder anti roll bar - less steering. Softer anti roll bar - more steering.

REAR seam Harder anti roll bar - less grip more slide. Softer anti roll bar - more grip less slide.

There are many different tread patterns and tyre compounds available which will fit your MAXIMA and so you can find the best grip on your particular track.

Any of the "Mot Shot" type tyres will fit the front and rear wheels of the MAXIMA. A range of Dynamite tyres is also available.

This is a very difficult gree to give advice on as frack conditions vary on much, but ty to bus the softest shock absorbers which give a good ride. The Nini Mustang shock absorbers are very good value for money and it is a good idea to keep two or three sents mach with a different grade of oil. In this way you can very quickly and easily try different settings.

The new front puspension system of the Maxima allows you the facility of using rear wheels and tyrem on the front of your car. This facility in particularly useful when you encounter very low traction conditions or very large jumps when you will find that the larger whenly have a significant stabilizing effect without reducing steering effectiveness.

RIDE METGHT
There are two ways of adjusting the NAXIMA ground
clearance: You can increame its spring tension by moving the
adjuster ring up or down the shock absorber body OR you can move
the shock absorber brackets into their alternative upper or lover
positions. The first method will change the risk beight, adjust
the overall ride height to give good ride over your
particular track as a general rule the smoother the track the
lower the ride height, the rougher the smoother the track the
lover the ride height, the rougher the smoother the track the
high. Ride height also affects steering if you have the front
high and the back low, you have less steering and front low, back
high produces more steering.

ACCESSORIES

The range of P B accessories for the 1/10 scale cars is growing all the time, please watch our advertising for the latest details.





