TUNING S.U. CARBURETTERS INCLUDING I'LL NEEDLE CHARTS





TUNING



CARBURETTERS

INCLUDING FULL NEEDLE CHARTS

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A four-point guide to getting the best performance and economy from your S.U.(s).

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SPEED PORT

THE PERFORMANCE PAPERBACKS



INTRODUCTION TO TUNING Martyn Watkins

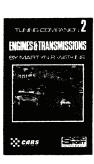
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ACKNOWLEDGEMENT

We should like to acknowledge the invaluable assistance given by the S.U. Carburetter Company in letting us reproduce so much of their literature. In particular we thank them for the information on their carburetter specifications and needles — which will be of so much help to readers of this book.

We hope that this book will serve as a trusty guide to millions of motorists running cars with S.U. carburetters.

IMPORTANT

The tuning procedure described in this publication does not apply to vehicles sold in the U.S.A. after October, 1968, and which are made to satisfy the U.S.A. statutory regulations regarding exhaust emission. These carburetters must not be dismantled or the settings altered without reference to the relevant manufacturers' servicing instructions.

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SECTION I

SINCE so many people have been writing in asking what needles, and jets to use in such and such car or induction set-up, and in view of the fact that it is impossible in most cases to give a clear cut answer we have attempted to explain just how one can obtain the correct answers.

First let us consider why it is usually impossible to give a clearcut answer to reader's carburation problems. As explained in the recent Mini Tuning series and book, even small variations in engine specification can radically alter the carburation requirements of an engine. These variations can be as obscure as small differences in port or chamber shape, or as obvious as the fitting of larger valves and different manifolds and camshafts. Thus it is quite possible that two identical motors with outwardly similar conversions, and identical written specifications, can in fact have quite different carburation requirements. To complicate matters even further there is still the human factor of the fuel-consumption-toperformance-ratio preference of the individual. Tuning an S.U. Carburetter installation to match an engine specification is, a matter of selecting the following items:-

1

- i Size and number of carburetter(s) to be used.
- ii Strength of piston spring fitted above the carburetter piston.

iii Entry of air into carburetter. i.e:—The fitting of an air cleaner system or the selection of a size and type of ram pipe, or the decision to use open-intakes.

iv Profile of jet needle.

Size of jet and range of jet needles is governed by the size of carburetter.

To be certain of obtaining the correct solutions to the above points, the engine has to be mounted on a test bed and a series of set procedures carried out. However, it is possible to arrive at a carburation setting which is reasonably close to the optimum by careful road testing and applying a given sequence to the operation.

It is advisable, after a long run with an experimental jet needle fitted, to check both spark plug appearance and condition of the tail pipe bore. In both cases 'whiteness' is a sign of weak mixture.

Having obtained a jet needle which allows the car to accelerate smoothly up to maximum revs, is steady under part throttle conditions and is also satisfactory at the top end, then consumption tests can be carried out.

These should be undertaken in good weather conditions and if the standard fuel system is used (sometimes a separate gallon tank is fitted for this purpose), fill the tank to the brim, note the mileage carefully and refill to the brim. This will give the exact quantity of

fuel used.

To obtain the best m.p.g. figures without sacrificing performance, these consumption checks should be done at steady speeds, (say 30, 40 and 50 m.p.h.), and also at top speed; then if there is excessive consumption at particular points on the needle then a closer setting can be looked for. (See back of this book), bearing in mind what part of the needle is affected.

Two last points to remember are:—

When going from weak to rich on the setting it is usual to try a dimension about .002" (two 'thou') smaller at a time, but when going from rich to weak at a point on the needle, it is advisable to go no more than .001" (one 'thou') larger on the dimensions, unless there are signs of excessive richness.

If these methods are to be used for jet needle determination please use the utmost care whilst carrying out checks on the public highways—really such road testing requires a test track.

Size of Carburetter.

An alteration in size of carburetter should only be necessary if the breathing capacity of the engine has been substantially increased. To improve the breathing will require possibly larger inlet valves, alteration to the head or ports, a change of camshaft or an increase in engine capacity.

Polishing and lining-up the ports and increasing compression by about one ratio is not really sufficient justification for increasing carburetter size.

If larger instruments are to be fitted then the next size should be used; it is very rare that an engine's breathing capacity is increased to the stage where it requires an increase of two sizes. Remember if a larger instrument is fitted to a power unit which does not really merit this increase in carburetter size, the piston will not reach its full travel—the only benefit achieved will be a more impressive underbonnet appearance!

Piston spring

Piston springs are identified by a colour code and this can be found painted on the end coils of the spring.

The range for carburetters up to and including $1\frac{3}{4}$ " bore size is:— $2\frac{1}{2}$ oz. blue. $4\frac{1}{2}$ oz. red. 8 oz. yellow and 12 oz. green.

It is best to use the red spring but if the carburetters are suspected of being on the large size for an engine then the blue should be tried. Conversely if the instrument is only just large enough, a stronger yellow spring might be required.

A correct strength of piston spring will be one which allows the piston to reach its maximum travel at the point in the speed range where maximum power is obtained.

In the paper on the S.U. Carburetter given to the Institute of Mechanical Engineers by Mr. P. G. G. Knight, Technical Manager of S.U. Carburetter Co. Ltd., there is a description of a simple

piston height indicator which can be used whilst the vehicle is in motion. This device can be extremely useful in determining, both piston spring and needle profile by road test methods. (See footnote*)

It should be noted that the change from a medium spring (say the red) to a weaker one (blue), will have the effect of weakening the mixture throughout the range. The effect of going to a stronger one will be to enrich the mixture throughout the range.

A way of getting a rough guide as to which spring to use is to refer to the S.U. Leaflet AUC.9631. This lists carburetter specifications for both current and earlier models. Look down the list of vehicles and find a power unit which gives about the same power with the same number and size of carburetter fitted. This will give a piston spring/jet needle combination which can be used as a good starting point. See also appendix 1.

Carburetter air intake

The way by which the air reaches the carburetter intake can greatly affect the mixture requirements.

In addition to this manometer device Mr. Knight also refers to checking piston lift by means of a rod inserted in a hole drilled vertically through the suction chamber cap.

chamber cap.

The rod is cut off flush with the top of the cap when piston is resting on the carburetter bridge and is therefore at its lowest point. As the piston rises, it carries the rod with it and a simple measurement reveals the extent of lift. A device of this type is actually available on the market—the PSW tool set, manufactured by PSW Test Equipment (P. M. Schleyer) of Western Germany, and imported into this country by Motor Books and Accessories, 33 St. Martin's Lane, London W.C.2. Sets are available for S.U. carburettors and for Strombergs, they cost 36s 6d. As well as piston lift, they permit immediate checks to be made of jet centralisation, synchronisation of twin carbs, mixture strength and fuel level.

Removal of an air cleaner system will tend to weaken the mixture supplied to the engine and the effect will be greater at the top end of the speed range.

The degree of weakening will depend upon the type of air cleaner and this will be governed by how much restriction the cleaner offers—the greater the restriction, the greater the weakening effect when removed. In general, oil bath type cleaners offer more restriction than the paper element types.

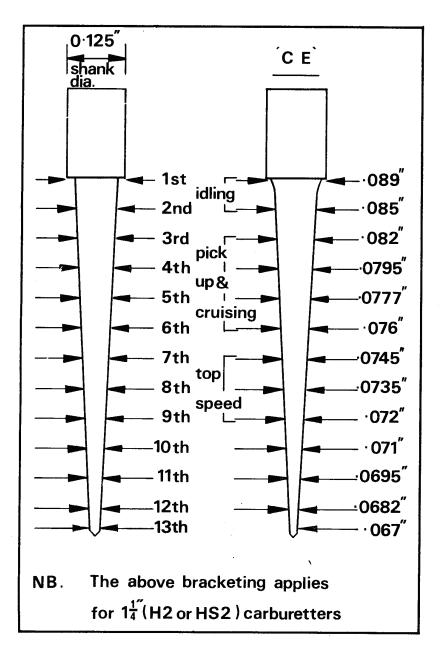
Fitting ram pipes to the intake flange of the carburetter(s) can also affect the mixture requirement (usually weakening the mixture slightly in the mid-speed range). The effect on power curve varies with type, and length.

There is no simple formula for ram pipe length, but in general a length of between 2 to 3 inches is used. The effect of these pipes is to boost power very slightly in the mid-speed range.

Jet needle profile.

Two leaflets which are obtainable from S.U. Carburetter Co. Ltd., or their agents, are extremely useful for jet needle determination; one is the Carburetter Specification booklet already mentioned and the other is the list of needle sizes (AUC.9618). See Appendix 2.

The book of needle sizes gives a list of diameters for each needle starting with the diameter immediately under the shank or head of the needle and working down the length in increments of one eighth of an inch. The smaller the dia-



meter at any particular point the richer the needle will be at that point.

To illustrate what the needle dimensions in the book actually represent we will take an example, (a diagram of this needle appears on page 10) the CE, list the dimensions and discuss which part affects which driving condition.

Referring to diagram (1) the first two dimensions are given as 1). .089 2). .085: these are the idling or datum positions and it is advisable when changing from one needle to another to choose one with the same idling dimensions

If this is not possible then bear in mind that if the new needle has weaker or larger idling dimensions (say .089-.0855) the rest of the needle will give slightly richer results than suggested by the dimensions.

If the idling dimensions are richer or smaller (say 089-0845) the needle will give slightly weaker results than one would expect. This is due to the alteration in the jet position required by the new idling dimensions.

The next four dimensions, govern the pick up in top gear from about 20 m.p.h. to 50 m.p.h. These are 3) 082 4) 0795 5) 0777 6) 076 and are also the part of the needle which meters fuel for the part throttle or cruising conditions. A cruising speed of 30 m.p.h. will lie approximately (depending on

size of carburetter) between the second and third dimensions on the diagram; a steady 50 m.p.h. will occur around the fifth portion. Dimensions from the seventh (\cdot 0745) to the ninth (\cdot 072) affect the top end full throttle conditions. The last three dimensions (with $1\frac{1}{4}$ " diameter carburetters) do not take part in the metering.

Testing procedure

With the carburetter(s) correctly set for mixture at idle conditions (see S.U. Service Literature) and the engine oil and water at normal temperatures, carry out a number of acceleration tests and part throttle tests.

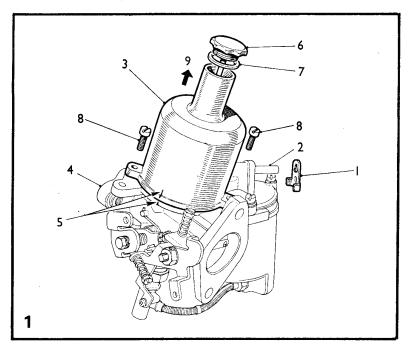
First accelerate from about 20 m.p.h. in top gear to about 50 m.p.h. If there is hesitation or a pulling back, repeat test with the choke pulled out about $\frac{5}{8}$ ". If there is an improvement, make a note that the third, fourth and fifth, and possibly the sixth needle dimensions require to be a little richer. Now try driving at a steady 30, 40 and 50 m.p.h., if there is a slight see-sawing action, try to cure this by richening the mixture control slightly.

If weakness is suspected at these cruising speeds then again the third, fourth and fifth dimensions will require richening. A similar test can be carried out for high speed in top gear. Here it is very important to ensure that there is no weakness.

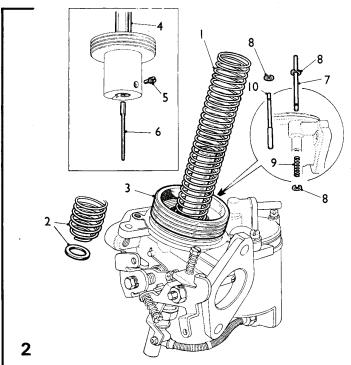


SECTION II

Adjusting and Servicing



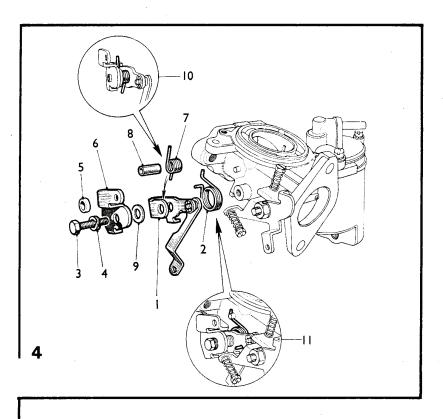
- 1. Baffle plate.
- 2. Inlet nozzle.
- 3. Suction chamber.
- 4. Carburetter body.
- 5. Marks for replacement.
- 6. Damper.
- 7. Damper washer.
- 8. Chamber retaining screws.
- 9. Direction of removal.
- A. Remove the baffle plate from the inlet nozzle.
- B. Thoroughly clean the outside of the carburetter.
- C. Mark the relative positions of the suction chamber and the carburetter body.
- D. Remove the damper and its washer. Unscrew the chamber retaining screws.
- E. Lift off the chamber without tilting it.



- 1. Piston spring.
- 2. Alternative spring with washer.
- 3. Piston assembly.
- 4. Piston rod.
- 5. Needle locking screw.
- 6. Needle.
- 7. Piston lifting pin.
- 8. Circlip for pin.
- 9. Spring for pin.
- 10. Alternative lifting pin.
- A. Remove the piston spring and washer (when fitted).
- B. Carefully lift out the piston assembly and empty the damper oil from the piston rod.
- C. Remove the needle locking screw and withdraw the needle. If it cannot easily be removed, tap the needle inwards first and then pull outwards. Do not bend the needle.
- D. If a piston lifting pin with an external spring is fitted, remove the spring retaining circlip and spring, then push the lifting pin upwards to remove it from its guide. With the concealed spring type, press the pin upwards, detach the circlip from its upper end, and withdraw the pin and spring downwards.

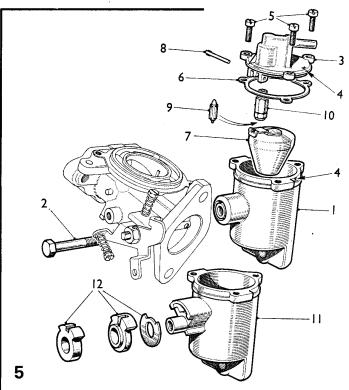
1.	Jet assembly.	10.	Gland.
2.	Pick-up link.	11.	Washer.
3.	Link retaining screw.	12.	Ferrule.
4.	Pick-up lever return spring.	13.	Jet adjusting nut
	Brass bush.		Spring for nut.
6.	Sleeve nut.	15.	Jet bearing.
7.	Flexible jet tube.	16.	Brass washer.
8.	Float-chamber.	17.	Jet locking nut.
9.	Carburetter body.	1Ω	Pieton key

- A. Support the moulded base of the jet and slacken the screw retaining the jet pick-up link.
- B. Relieve the tension of the pick-up lever return spring from the screw and remove screw and brass bush (when fitted).
- C. Unscrew the brass sleeve nut retaining the flexible jet tube to the float-chamber and withdraw the jet assembly from the carburetter body. Note the gland, washer, and ferrule, at the end of the jet tube.
- D. Remove the jet adjusting nut and screw. Unscrew the jet locking nut and detach the nut and jet bearing. Withdraw the bearing from the nut, noting the brass washer under the shoulder of the bearing.



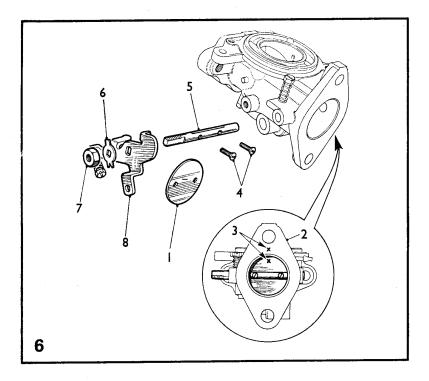
- 1. Pick-up lever.
- 2. Lever return spring.
- 3. Lever pivot bolt.
- 4. Double-coil spring washer.
- 5. Spacer (alternative).
- 6. Cam lever.

- 7. Lever spring.
- 8. Pivot bolt tube.
- 9. Skid washer.
- 10. Cam lever spring location.
- 11. Pick-up lever spring location.
- A. Note the location points of the two ends of the pick-up lever return spring. Unscrew the lever pivot bolt together with its double-coil spring washer, or spacer. Detach the lever assembly and return spring.
- B. Note the location of the two ends of the cam lever spring and push out the pivot bolt tube or tubes, taking care not to lose the spring. Lift off the cam lever, noting the skid washer between the two levers.



- 1. Float-chamber.
- 2. Retaining bolt.
- 3. Float-chamber lid.
- 4. Marks for replacement.
- 5. Lid retaining screws.
- 6. Lid gasket.

- 7. Float assembly.
- 8. Float hinge pin.
- 9. Float needle.
- 10. Needle seating.
- 11. Alternative float-chamber.
- 12. Alternative spacers.
- A. Slacken and remove the bolt retaining the float-chamber to the carburetter body. Note the component sequence with flexibly mounted chambers.
- B. Mark the location of the float-chamber lid. Unscrew the lid retaining screws and detach the lid and its gasket, complete with float assembly.
- C. Push out the float hinge pin from the end opposite its serrations and detach the float.
- D. Extract the float needle from its seating and unscrew the seating from the lid, using a box spanner ·338 in. (8·58 mm.) across the flats. Do not distort the seating.

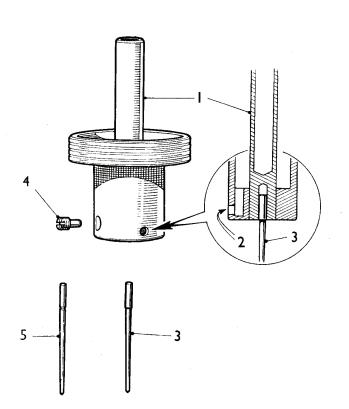


- 1. Throttle disc.
- 2. Carburetter flange.
- 3. Marks for replacement.
- 4. Disc retaining screws.
- 5. Throttle spindle.
- 6. Tab washer.
- 7. Spindle nut.
- 8. Lever arm.
- A. Close the throttle and mark the relative positions of the throttle disc and the carburetter flange.
- B. Unscrew the two disc retaining screws. Open the throttle and ease out the disc from its slot in the throttle spindle. The disc is oval and will jam if care is not taken.
- C. Tap back the tabs of the tab washer securing the spindle nut. Note the location of the lever arm in relation to the spindle and carburetter body; remove the nut and detach the arm.

NOTE.—Before reassembling, examine all components for damage and/or wear.

Unserviceable components must be renewed.

В



- 1. Piston rod.
- 2. Transfer holes.
- 3. Needle.

- 4. Needle locking screw.
- 5. Alternative needle.

- A. Examine the throttle spindle and its bearings in the carburetter body. Check for excessive play. Renew parts as necessary.
- B. Refit the spindle to the body. Assemble the operating lever with tab washer and spindle nut, to the spindle. Ensure that when the stop on the lever is against the abutment on the carburetter body, i.e. throttle closed position, the countersunk ends of the holes in the spindle face outwards. Tighten the spindle nut and lock with the tab washer.
- C. Insert the throttle disc in the slot in the spindle in its original position as marked. Manœuvre the disc in its slot until the throttle can be closed and fit two new retaining screws, but do not fully tighten. Check visually that the disc closes fully, and adjust its position as necessary. With the throttle closed there must be clearance between the throttle lever and the carburetter body. Tighten the screws fully and spread their split ends just enough to prevent turning.

- A. Examine the float needle and seating for damage. Check that the spring-loaded plunger in the end of the plastic-bodied needle operates freely.
- B. Screw the seating into the float-chamber carefully. Do not overtighten. Replace the needle in the seating, coned end first. Test the assembly for leakage with air pressure.
- C. Refit the float and lever to the lid and insert the hinge pin. Check the float level as described in item 15
- D. Examine the lid gasket for re-use. Assemble the gasket on the lid and refit the lid to the float-chamber in the position marked on dismantling. Tighten the securing screws evenly.
- E. Refit the float-chamber assembly to the carburetter body and tighten the retaining bolt fully, making sure that the registers on the body and the chamber engage correctly.

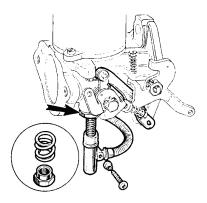
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- A. Refit the piston lifting pin, spring, and circlip.
- B. Examine the piston assembly for damage on the piston rod and the outside surface of the piston. The piston assembly must be scrupulously clean. Use petrol or methylated spirit as a cleaning agent. Do not use abrasives. Lightly oil the outside of the piston rod.
- C. Clean inside the suction chamber and piston rod guide using petrol or methylated spirit. Refit the damper assembly and washer. Seal the transfer holes in the piston assembly with rubber plugs or Plasticine and fit the assembly to the suction chamber. Invert the complete assembly and allow the suction chamber to fall away from the piston. Check the time this takes, which should be 3 to 5 seconds for HS2-type carburetters of 11

- in. (31.75 mm.) bore, or 5 to 7 seconds for larger carburetters. If the time taken is in excess of that quoted, the cause will be thick oil on the piston rod, or an oil film on the piston or inside the suction chamber. Remove the oil from the points indicated and re-check.
- D. Refit the needle to the piston assembly. The shoulder or lower edge of the groove must be level with the bottom face of the piston rod. Fit a new needle locking screw and tighten. Invert the suction chamber and spin the piston assembly inside it to check for concentricity of the needle.
- E. Check the piston key for security in the carburetter body. Refit the piston assembly to the body and replace the piston spring over the piston rod. Fit the suction chamber and retaining screws. Tighten the screws evenly.
- A. Refit the jet bearing, washer, and locking nut: do not tighten the nut. Refit the jet in its bearing and the flexible tube to the base of the float-chamber without the gland and washer.
- B. Centralize the jet as described in item 13
- C. Withdraw the jet and tube; refit the spring and jet adjusting nut. Fit the gland washer and ferrule to the flexible tube. The end of the tube should project a minimum of in in. (4.8 mm.) beyond the gland. Refit the jet and tube. Tighten the sleeve nut until the neoprene gland is compressed. Overtightening can cause leakage.
- D. Refit the damper and washer.

- A. Reassemble the pick-up lever, cam lever, cam lever spring, skid washer, and pivot bolt tube or tubes in the positions noted on dismantling.
- B. Place the pick-up lever return spring in position over its boss and secure the lever assembly to the carburetter body with the pivot bolt. Ensure that the double-coil spring washer or spacer fits over the projecting end of the pivot bolt tube.
- C. Register the angled end of the return spring in the groove in the pick-up lever, and hook the other end of the spring around the moulded peg on the carburetter body.
- D. Fit the brass ferrule to the hole in the end of the pick-up link. Relieve the tension of the return spring and fit the link to the jet with its retaining screw. When finally tightening the screw, support the moulded end of the jet.
- E. Refit the baffle plate to the float-chamber lid nozzle.

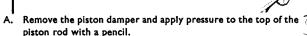
JET CENTREING



13

The piston should fall freely onto the carburetter bridge with a click when the lifting pin is released with the jet in the fully up position. If it will only do this with the jet lowered then the jet unit requires re-centring. This is done as follows:

- A. Remove the jet head screw to release the control linkage.
- B. Withdraw the jet, disconnecting the fuel feed pipe union in the float-phanther, and removing the rubber sealing washer. Remove the jet locking spring and adjusting nut.
- C. Replace the jet and insert the fuel feed pipe connection into the float-chamber.
- D. Slacken the jet locking nut until the assembly is free to rotate.



B. Tighten the jet locking nut keeping the jet hard up against the jet bearing.

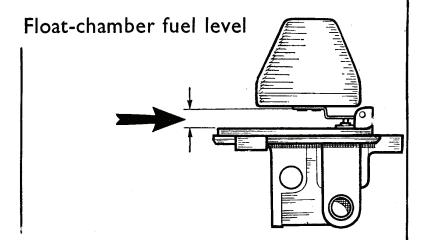
C. Finally check again as in item 13.

D. Re-fit the jet locking spring and adjusting nut. Before replacing the fuel feed pipe into the float-chamber, fit the rubber sealing washer over the end of the plastic pipe so that at least & in. (4-8 mm.) of pipe protrudes (see inset). Reassemble the controls.

Refill the piston dampers with the recommended engine oil

(see item 26).

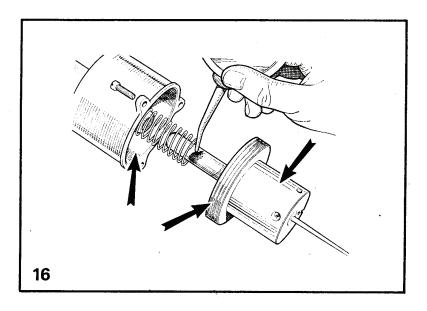
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- Remove and invert the float-chamber lid.
- B. With the needle valve held in the shut-off position by the weight of the float only, there should be a $\frac{1}{8}$ to $\frac{3}{18}$ in. (3.2 to 4.8 mm.) gap between the float lever and the rim of the float-chamber lid.

C. The float may be set by bending at the crank.

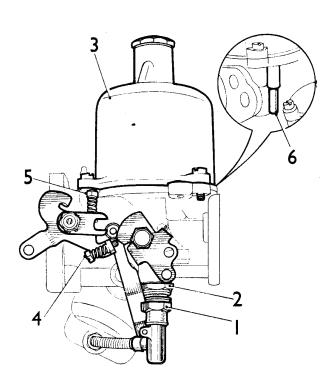
ROUTINE CLEANING



- A. At the recommended intervals mark for reassembly and carefully remove the piston/suction chamber unit.
- B. Using a petrol-moistened cloth, clean the inside bore of the suction chamber and the two diameters of the piston.
- C. Lightly oil the piston rod only and reassemble as marked.
- D. Refill piston damper (see item 26)

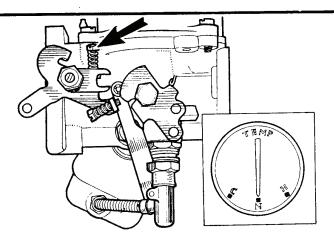
SECTION III

Tuning Multi Carburetters

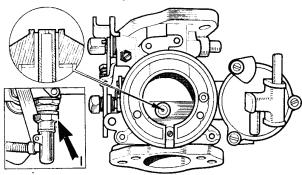


The Type HS Carburetter

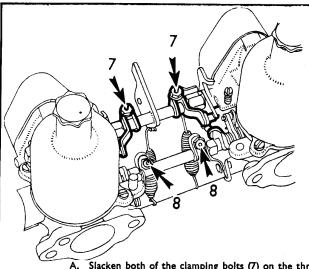
- 1. Jet adjusting nut.
- 2. Jet locking nut.
- 3. Piston/suction chamber.
- 4. Fast-idle adjusting screw.
- 5. Throttle adjusting screw.
- 6. Piston lifting pin.



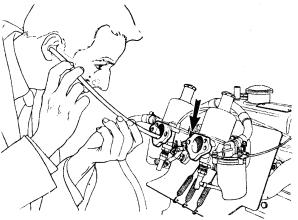
- A Warm engine up to normal temperature.
- B. Switch off engine.
- C. Unscrew the throttle adjusting screw until it is just clear of its stop and the throttle is closed.
- 17 D. Set each throttle adjusting screw & of a turn open.



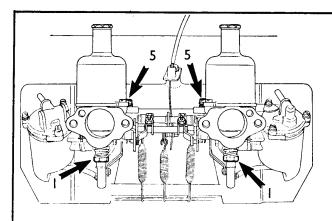
- A. Mark for reassembly and remove piston/suction chamber unit.
- B. Disconnect mixture control wire.
- C. Screw the jet adjusting nut (1) until the jet is flush with the bridge of the carburetter or fully up if this position cannot be obtained.
- D. Replace the piston/suction chamber unit as marked.
- E. Turn down the jet adjusting nut (1) two complete turns.



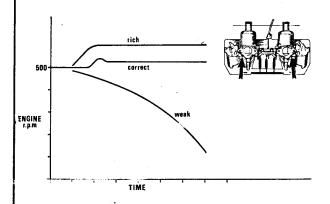
- A. Slacken both of the clamping bolts (7) on the throttle spindle interconnections.
- B. Disconnect the jet control interconnection by slackening the clamping bolts (8).



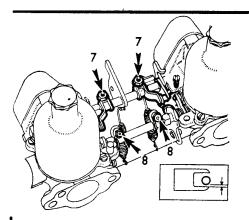
- A. Restart the engine and adjust the throttle adjusting screws on each carburetter to give the desired idling speed as indicated by the glow of the ignition warning light.
- Compare the intensity of the intake 'hiss' on all carburetters and alter the throttle adjusting screws until the 'hiss' is the same.



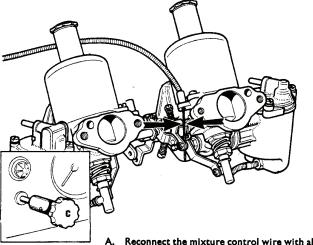
- A. Turn the jet adjusting nuts (1) on all carburetters up to weaken or down to richen the same amount until the fastest idling speed consistent with even running is obtained.
- Readjust the throttle adjusting screws (5) to give correct idling if necessary.



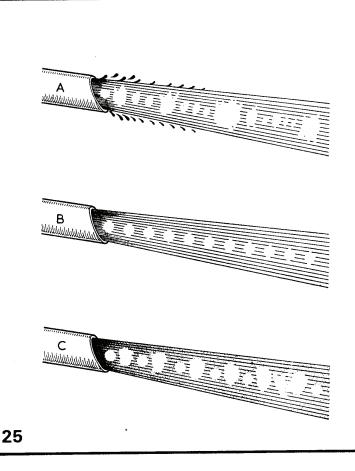
- A. Check for correct mixture by gently pushing the lifting pin of the front carburetter up 32 in. (-8 mm.) after free movement has been taken up. The graph illustrates the possible effect on engine r.p.m. Readjust the mixture strength if necessary.
- B. Repeat the operation on the other carburetters and after adjustment re-check since they are all inter-dependent.
- C. Item 25, shows the correct type of exhaust smoke.



- A. Set the throttle interconnection clamping levers (7) so that the link pin is ·012 in. (·30 mm.) away from the lower edge of thefork (see inset). Tighten the clamp bolts.
- B. With both jet levers at their lowest position, set the jet interconnection lever clamp bolts (8) so that both jets commence to move simultaneously.

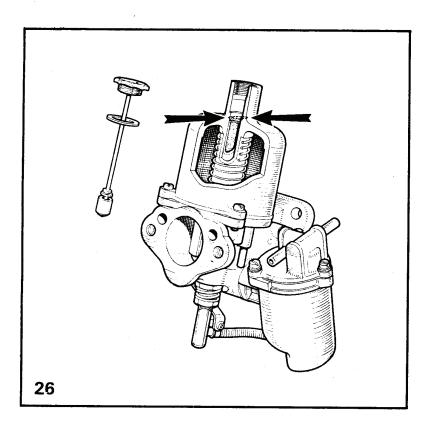


- A. Reconnect the mixture control wire with about \(\frac{1}{16}\) in. (1.6 mm.) free movement before it starts to pull on the jet levers.
- B. Pull the mixture control knob until the linkage is about to move the carburetter jets, and adjust the fast idle screws, comparing the intensity of the air intake 'hiss' to give an engine speed of about 1,000 r.p.m. when hot.
- C. Refit the air cleaners.



The effect of mixture strength on exhaust smoke

- TOO WEAK: Irregular note, splashy misfire, and colourless. Regular and even note.
- CORRECT:
- Regular or rhythmical misfire, blackish. C. TOO RICH:



Finally top up the piston damper with the recommended engine oil until the level is $\frac{1}{2}$ in. (13 mm.) above the top of the hollow piston rod.

Note

On dust-proofed carburetters, identified by a transverse hole drilled in the neck of the suction chambers and no vent hole in the damper cap, the oil level should be $\frac{1}{2}$ in. (13 mm.) below the top of the hollow piston rod.

S.U.	S.U. carburetter specifications	ecific	ations	Q	d)en	Appendix1
	CAR MODEL	YEAR	TYPE No.	2 3	NEEDLE PICH STD	***	SPRING
AUSTIN HEALEY	→			5	5		COLOUR
2963 c.c.	Austin-Healey 100 BN2	1953/6	Pair H4	ð	δW	ΑT	Yellow
	Austin-Healey Le Mans	1954/6	Pair H6	0A6	0A7	0A8	Red
	Austin-Healey 100 S	1955	Pair H6	≥	₹	SA	Red
2639 c.c.	Austin-Healey 100/6 BN4	1957	Pair H4	4	3	Ξ	Red
2912 c.c.	Austin-Healey BN6 3000 (Mk. I)	1959	Pair HD6	8	ટ	SQ	Yellow
	Austin-Healey BN7	1959	Pair HD6	B	<u>ک</u>	SQ	Green
	Austin-Healey BN7	1959	Pair HD6 Thermo	8	ડ	SO	Green
	Austin-Healey BN7 (RC)	1960	Pair HD6	8	<u>ک</u>	SQ	Green
2912 c.c.	Austin-Healey BN7 (Mk. II)	1961/2	Three HS4	ă	2	Н	Red
2912 c.c.	Austin- Healey 3000 (Mk. II)	1962/3	Pair HS6	8	BC	77	Green
2912 c.c.	Austin- Healey BJ8 (Mk. III)	1964	Pair HD8	S	5	٦	Red/Green
AUSTIN 948 c.c.	Sprite	1959	Pair H1	EB	99	Mow	
2912 c.c.	A 99	1959/61	Pair H4		M5	¥	Yellow
848 c.c.	Seven (Mini)	1959	Single HS2	Σ	EB	99	Red
848 c.c.	Seven and Super	1961/2	Single HS2	Σ	EB	99	Red
997 c.c.	Mini-Cooper	1961/2	Pair HS2	AH2	Z5	EB	Red
1622 c.c.	A 60	1961/4	Single HS2	Σ	ĕ	99	Yellow
948 c.c.	A 40	1961/2	Single HS2	AH2	Σ	EB	Red
948 c.c.	Healey Sprite (Mk. II)	1961/2	Pair HS2	7	۲3	X	Blue
1098 c.c.	Healey Sprite (Mk. II)	1962/3	Pair HS2	Σ	ζ	99	Blue
1098 c.c.	Healey Sprite (Mk. III)	1963/4	Pair HS2	9H	A	99	Biue
1275 c.c.	Healey Sprite (Mk. IV)	1966	Pair HS2	9 H	Ą	99	Blue
948 c.c.	A 35 Van	1962/3	Single HS2	9H	Ā	EB	Red
1098 c.c.	A 40 and Austin 1100	1962/4	Single HS2	9 H	A	EB	Red
1070 c.c.	Mini-Cooper S	1963/4	Pair HS2	က	9H	EB	Red
1275 c.c.	Mini-Cooper S	1964	Pair HS2	AH2	Σ	EB	Red
970 c.c.	Mini-Cooper S	1964	Pair HS2	£	V V	E8	Red
.c. 666	Mini-Cooper	1964	Pair HS2	Σ	ζ	99	Blue
1800 c.c.	Austin 1800	1964	Single HS6	ΝS	≥	<u>N</u>	Yellow
948 c.c.	A 35 Van	1965/6	Single HS2	Σ	E B	99	Red
850 c.c.	Mini Automatic	1965/6	Single HS4	9 H	Υ	EB	Red
1098 c.c.	1100 Automatic	1965/6	Single HS4	BG	占	ED	Red
1800 c.c.	1800	1966	Single HS6	SΜ	≥	S	Yellow

Appendix1 contd

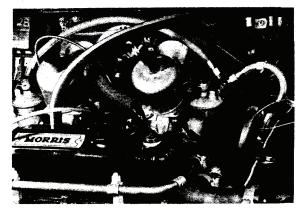
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	CAR MODEL	YEAR	TYPE No.	NEEDLE RICH STD. V	WK	SPRING
CONVERS	CONVERSION SETS				į	
	M.G.—Elva	1959/61	Pair H4	S5		Red
	B.M.C. A Series—Turner	1959/61	Pair H1	BXI		
	Minor 1000—Speedwell	1959/61	Pair H2	W8		Blue
	B.M.C. A Series—Turner	1959/61	Pair H2	W6		Red
	Sprite-Sebring	1960	Pair H2	ğ		Blue
	F2 Cooper Climax S/C	1960	Single H8			
	B.M.C.—FJ Cooper	1960	Pair H4	ΑM		Blue
948 c.c.	Alexander Herald	1960/1	Pair H2	M6		Blue
948 c.c.	Sprite	1960	Pair H4	A5		Blue
	Mangoletsi Remix	1961/3	Pair HI	W		
	Healey 3000 Competition	1961	Three HD8	¥		Blue/Black
997 c.c.	Mini Cooper (Thermo jets)	1961/3	Pair H4	MME		Blue
	Sprite—Speedwell	1962/3	Pair H4	ΑO		Red
	Mini competition	1962/3	Pair H4	MME		Blue
970 c.c.	Mini-Cooper S Group 2	1964	Pair H4	CP4		Bine
1070 c.c.	Mini-Cooper S Group 2	1964	Pair H4	MME		Blue
1275 c.c.	Mini-Cooper S Group 2	1964	Pair H4	BG		Blue
	Formula 3 B.M.CCooper	1964	Single HS6	SS		Red
1098 c.c.	Morris 1100 (Downton)	1964	Pair H4	AM		Blue
COVENTE	COVENTRY CLIMAX				`	
1100 c.c.		1954/8	Pair H4	R6 BE	9	Blue
	F.W.A. Stage I		Pair H4	BE	1	Blie
	F.W.A. Stage II		Pair H4	1 46		Blue
1220 c.c.	Lotus Elite		Pair H4	. C		Blie
1220 c.c.	Lotus Elite		Single H4	148		Yellow
1500 c.c.	F.P.F.		Pair DU6	ZB		
27						
י מבליל מיניליל	CIVERSIONS)	!	:			
11/2 C.C.	100F A	1949/53	Pair HV1	M9 EK	MOW	
1172 c.c.	100c Aquasport 100F Prefect and Anglia	1953/7	Pair MC2	MI A5	Ψ	Red
1172 c.c.	100E Lotus	1953	Pair II.	ME	Z	700
:		304/00	711 118 1		W	Dec

SPRING	COLOUR	Red	2	Red/Centre	Yellow front	and rear	Red Ded	Yellow	Vallow	F 0	2 0	2	5 6		Bire	Red	Yellow	Red	P C		500	700	Yellow		Vellox	A	MOI S	enia	Red	Red	Bed	Bed G
NEEDLE	RICH STD. WK.	ო	H2 QA QW	က			EM ES AP			. a		WA	*	۲ ا	Ap	88	ΑY	STR	EW.	NA FI				•	62	, ×,	V 14	2	CO.	CZ	HQ	UVP
TYPE No.		Pair H4	Pair H2	Three H4		i	Three H2	Pair H4	Pair H4	Single H6	Pair H6	Pair H4	Pair H2	10 is 0	7 I I I	Single H6	Pair H4	Single HV3	Pair H2	Three H2	Pair H1	Pair H4	Pair H4 DD		Pair H2 DD	Three H2 DD	Pair H2	7017	Single HS4	Par HS4	Pair HS4	Single HS6
YEAR		1954/7	1955/7	1954/7		!	1955/7	1954/6	1957/62	1958/60	1958/60	1060/2	1960/2	1960/2	7/000	1967	1962	1950	1953	1954	1955	1950	1952		1953	1953	1961/2	1004	1901/2	1302/3	1963/4	1964
CAR MODEL		Consul—Aquaplane (Series 1)	Consult—W.H.M.B. Ltd.	ZephyrAquapiane (Series 1)	•	Zooku, W. U. M. D. 144	Zepliyi—ww.m.iwi.b. Liu.	Zepnyr—raymond Mays (Series 1)	Zephyr Raymond Mays (Series 2)	Consul—R. Owen (Series 2) 4 port head	Consul—R. Owen (Series 2) 6 port head	105E FJ	100E Aquaplane	105E/107E Aquaplane	Consul R Owen (Series 2) 4 nort head	Zonbur Baumond Maus	Copilyi—nayillollo mays	E33A—Deliow	Consul (Series 1)—Dellow	Zephry (Series 1)—Dellow	100E Prefect and Anglia—Dellow	V.8 (Special adaptor)	Consul (Series 1)		Consul (Series 1)	Zephyr (Series 1)	Lotus 105E	Timper/Classic	Delinat Character	reliant rold	Reliant Zephyr 4	Formula 3 (Holbay-Ford)
	J. C. C.																					30 h.p.										

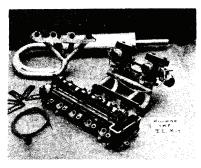
Appendix 1 contd

	CAR MODEL	YEAR	TYPE No.	RICH	NEEDLE STD.	WK.	SPRING COLOUR
HILLMAN 875 c.c. 1600 c.c. 1390 c.c.	Imp (Conversion) Minx (Conversion) Minx (Conversion) Alexander Minx (Conversion)	1964 1964 1956/8 1959/61	Pair HS2 Pair H4 Pair H2 Pair H2	3	67 44 67 44	C.	Blue Blue Blue
JAGUAR	XK 120 XK 120 XK 120 (Remote air cleaner) XK 120 7:1 and 8:1 C.R.C. Type XK 120 8:1 C.R.C. Type	1949/50 1951/4 1951/4 1952 1952	Pair H6 Thermo Pair H6 Thermo Pair H6 Thermo Pair H8 Pair H6 Thermo Pair H6 Thermo Pair H6 Thermo Pair H6 Thermo	53 W04 75	RB W02 W6 D6	RG WO3 VE	Red Red Red Black/Red Red Red
	XX 120 3:1 C.n.C. 17pe XX 140 7:1 and 8:1 C.R. (C Type head) XX 130 C 7:1 and 8:1 C.R. (C Type Head) XX 140C 7:1 and 8:1 C.R. (C Type Head)	1954 1954	Pair H6 Thermo	SA	. S. S.	LBA	Red
	disc air cleaners XK 140C 8:1 and 9:1 C.R. (C head) XK140C 7:1 and 8:1 C.R. D/H Coupé and standard XK 140C 7:1 and 8:1 C.R. R.H.D. F/H Coupé XK 140 7:1 and 8:1 C.R. L.H.D. F/H Coupé XK 140 7:1 and 8:1 C.R. L.H.D. F/H Coupé XK 140 7:1 and 8:1 C.R. R.H.D. F/H Coupé XK 140 7:1 and 8:1 C.R. R.H.D. F/H Coupé XK 140 7:1 and 8:1 C.R. R.H.D. F/H Coupé	1954 1955 1955 1955 1955 1955	Pair H6 Thermo Pair H8 Pair H6 Thermo	SSA AS	85 S. W02	VE LBA	Red Black/Red Red Red Red Red
3.4 litre 3.4 litre 3.8 litre 4.2 litre	XX 140 7:1 and 8:1 C.h. Borg-Warner L.H.D. D/H Coupé XX 140 7:1 and 8:1 C.R. Borg-Warner L.H.D. D/H Coupé XX 150 S XX 150 XX 150 XX 150 E Type E Type	1956 1956 1959/62 1959 1960/2 1961/4	Pair H6 Thermo Pair H6 Thermo Pair H06 Thermo Pair H06 Thermo Pair H06 Thermo Pair H06 Thermo Three H08	SA W 03 W 03	SSSJ4455	SU BAA	Red Red Blue/Black Red Red Blue/Black

	CAR MODEL	YEAR	TYPE & No.	RICH	NEEDLE	× ×	SPRING
₩.G.					5		
1250 c.c.	TF (and 1.5 litre)	1954/5	Pair H4	Ξ	G	GL	Blue
	ZA Magnette	1954/5	Pair H2	Σ	Β	09	Red
1500 c.c.	MGA	1955/9	Pair H4	ပ္ပ	S5	4	Red
	ZA/ZB Magnette	1956/8	Pair H4		G	M5	Red
1588 c.c.	Twin Cam	1958	Pair H6	£	0A6	0A7	Red
	Magnette III	1959/61	Pair HD4	ᇤ	교	6W	Red
1588 c.c.	MGA (Marks I and II)	1959/62	Pair H4	8	9	A0	Red
1622 c.c.	Magnette (Mk. IV)	1961/3	Pair HD4	5	쁖	¥	Red
948 c.c.	Midget	1961/2	Pair HS2	۸5	23	×S	Blue
1098 c.c.	1100	1962/3	Pair HS2	9 0	D3	5	Blue
1098 c.c.	Midget.	1962/3	Pair HS.	Σ	ζ	99	Blue
1800 c.c.	MGB	1962/3	Pair HS4	9	MB	21	Red
	MGB Competition	1963/4	Pair HD8		۵		Blue/Black
1800 c.c.	MGB and GT	1966	Pair HS4	9	D	21	Red
1098 c.c.	Midget Mk. II	1964	Pair HS2	9H	Z	99	Blue
MORRIS							
	Minor (Series II) O.H.V.	1953/6	Single H1	EB	99	MOM	
	Minor 1000	1957	Single H2	S	BXI	ω	Red
	Minor 1000 (paper air cleaner)	1957	Single H2	AH2	Σ	EB	Red
	Minor 1000 (rubber fuel line)	1957	Single H2	s	BXI	ω	Red
	Minor 1000 (rubber fuel line and paper cleaner)	1957	Single H2		Σ		Red
	Minor 1000 (steel levers)	1958	Single H2	s	BXI	OW	Red
	Minor 1000 (steel levers, paper air cleaner)	1958/9	Single H2	AH2	Σ	EB	Red
848 c.c.	Mini Minor	1959/62	Single HS2	Σ	EB	99	Red
948 c.c.	Minor 1000*	1960/2	Single HS2	AH2	Σ	EB	Red
1098 c.c.	Minor and 1100	1962/3	Single HS2	9H	Z	E8	Red
*Replaceme	*Replacement for Minor 1000	1960/2		AH2	Σ	E8	Red
	Minor MM and Series II—Derrington	1948/56	Pair UBA	6 W	Ę	MOM	
950	Oxford MO Series II/III—Derrington Mingen-Power Drive and Alexander	1950/7	Pair H2	ដូច	H S	O S	Red
	Series II Minor.	1953/6		9	פ	<u> </u>	

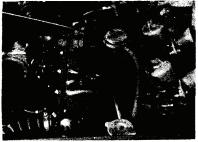


A works Mini Cooper S: within the engine department lurk these twin 1½ ins SUs in place of the standard 1½ ins. carbs. Note the carb bellmouths and the re-routed oil breather pipe all very neatly done,

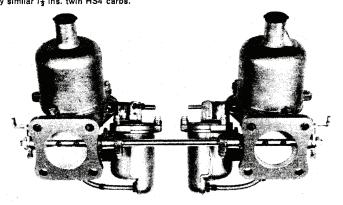


Above: twin 1¼ ins, SUs as supplied by Nerus for the Imp, other well known tuners sell this type of conversion for about £30 and results are generally good. Below: HS6s (1¾ ins.) as

Below: these twin 1½ ins. SUs were fitted to an MGB tuned by Bill Nicholson of Northampton. Together with other mods they helped propel it to a 0-60 time of 8.8 secs.



type of conversion for about £30 and results are generally good. Below: HS6s ($1\frac{3}{4}$ ins.) as fitted to the MGC; its sister the MGB uses the visually similar $1\frac{1}{4}$ ins. twin HS4 carbs.



Appendix I contd

	1147 c.c.	2·2 litre	1147 c.c.	1991 c.c.	948 c.c.	1991 c.c.		TRIUMP	9 h.p. and 10 h.p.	STANDAR	2 litre	2 litre	2 litre	ROVER	1275 c.c.	1098 c.c.	998 c.c.	1622 c.c.	848 c.c.	1498 c.c.	1489 c.c.	1489 c.c. O	BIIEV	
Vitesse (Conversion)	Spitfire Group II	TR4A	Spitfire 4	TR3; TR3A and TR4	Herald	TR3	TR2		10 h.p.	8	2000 TC	2000 (Smith's valve)	2000		Kestrel	Kestrel	EIF	4/72 Saloon	EIF	4/68	One-Point-Five (L.H.D.)	One-Point-Five		CAR MODEL
1963/4	1966	1965/6	1962/3	1959/62	1959/61	1956/8	1953/5		1955/6		1966	1963/4	1963/4		1967	1965/6	1963/4	1961/4	1961/2	1959/61	1957/62	1957/64		YEAR
Pair HS2	Pair H4	Pair HS6	Pair HS2	Pair H6	Pair H1	Pair H6	Pair H4		Pair H1		Pair HD8	Single HS6	Single HS6		Single HS4	Pair HS2	Single HS2	Pair HD4	Single HS2	Pair HD4	Pair H4	Pair H4		TYPE & No.
		WS	Н6	RH	EΒ	뫄	GER								BQ	D6	Z	Ē	3	Ŧ	AR	AR	RICH	
MO	DB	¥	Ž	MS	G۷	ΝS	F		D3		<u>_</u>	RR	R		DZ	D3	GX.	В	EB	Ξ	ð	ΑD	STD.	NEEDLE
		CIW	EB	SL	CA	SL	CR								유	G۷	GG	FX	GG	M9	AH	¥	¥.	
Red	B∤ue	Red	Red	Red		Red	Red				Black/Blue	Green	Green		Red	Blue	Red	Red	Red	Red	Red	Red	COLOUR	SPRING

2	DIX	PEN	ΑP		.ES	EEDL	ET N	90 J	.0	-			
			AAA cont.	AAA	AZ	AY	AE	AD	AC2	AC	AB	AA	AS
			-050	-089	-089	-089	-089	-089	-088	-089	-089	-089	089
			-048	-085	-085	-085	-085	-085	-084	-085	-085	-0845	085
			-046	0814	-0815	-0805	-081	-082	-082	-082	-080	-080	0826
				0785	-079	-0768	-078	-080	-080	-080	-0785	-0767	080
			1	-0755	-0755	-0741	-0763	0780	·0783	0783	0768	-0735	0782
				.072	-071	-072	.0754	-0760	-0765	-0765	-075	-071	0765
				0674	-0662	-0694	-0745	-0740	-0746	-0746	-0732	-0689	0746
			1	063	-0615	-0669	-0737	-0720	-073	-073	-0718	-0661	073
	1			-060	-0575	-0643	.0728	-070	-071	-071	-0702	-0638	0711
	- 1		i	-058	∙0532	-0617	-0718	-0680	-0694	-0694	-0688	-0614	0694
		1		-056	∙0490	-059	-071	-066	-0676	-0676	-0671	-0591	0676
			1	-0540	·0445	-0565	-070	-064	-066	-066	-0657	-0566	066
				-052	·0405	-0538	i	-062	-064	∙064	-064	-054	
вн	BG	BF	BE	BD	ВВ	ва	AJ	A1	AH2	AH1	АН	AG	AF
-089	-089	-089	-089	.090	-089	-090	-089	-089	-089	-088	-088	-089	089
-085	-085	-085	-084	∙0856	-085	-0856	-085	∙085	-085	-086	-0862	-085	085
-081	-0815	∙082	0805	-0822	-0825	-0822	-0815	-0817	082	-082	-083	0795	0814
.077	-0782	∙0796	-0773	-0805	-080	-0305	-079	-0798	0794	-079	-0803	-0745	078
-075	·0745	-0764	·07 4	·0794	0775	-0794	-0767	-078	-077	-0765	-0775	-0702	0758
-074	0695	-072	-0705	·0777	.075	-0777	0745	∙0765	-0748	-075	-0756	-0665	0727
.073	0647	∙068	-067	· 0 760	0725	∙0760	∙0723	.075	-0726	-073	-0733	-063	071
-072	-060	∙0635	-0634	-0750	-070	-0743	·0703	-0732	-0704	-071	-0711	-0598	0695
-071	-0557	∙0591	-060	-0740	-0675	-0727	-0683	∙0712	-0683	-069	-069	-0567	068
-070	-0515	0549	-0565	-0730	-065	-0710	-0663	-0693	-0662	-067	-067	-054	0665
-069	0474	-0505	-053	-0720	0625	-0694	-064	.0685	-064	-065	-065	-051	065
-068	043	-0463	-0495	-0710	-060	-0677	-062	-0675	-062	-063	-063	0485	0632
-068	-039	-042	-046		-0575				-060	-061	-061	-046	
ВО	BN	вм	BL	ВК	Вј	ВІ	AQ	AP	AO	AN	AM	AL	AK
-089	-089	-089	-089	-089	-089	-089	-089	.089	-089	-089	-0B9	-089	089
-085	-0855	-0855	∙0855	-0855	-0855	-0855	-085	-085	-085	-0855	-085	-085	086
-083	-0816	-0805	·081	-0815	·0824	-0808	-080	-0817	-082	-0827	-081	-0816	0825
∙081	-0784	-0768	-0777	-0785	-0794	-0777	-076	-0796	-0793	-0807	-078	-0796	0795
-080	-0758	∙074	-075	-0762	-0769	-0751	-0724	·0777	-0766	-0787	-0753	∙0781	0786
-078	-0738	.072	-073	-0738	-0749	-073	-0694	-0765	-0737	·077	-073	-077	-078
.077	-0724	-0705	-0715	·0722	·0734	-0714	-0668	-0752	-0705	-0753	-0704	-076	077
-075	-0714	-0695	-0707	∙0715	0725	-0705	-0642	·07 4 5	-0673	-074	-068	·0748	0764
.075	-0707	-0692	-070	·071	-0721	-0701	-062	-0736	-064	-073	-0655	-0738	0755
-074	-0703	∙0688	-0698	-0706	-0717	-0697	-060	-0727	-0608	-072	-063	-0726	0747
-073	-0701	-0684	-0693	-0703	-0714	-0694	∙058	.072	-0576	-071	-0606	-0715	0738
·072	-070	-068	-069 -0688	-070 -0695	-071	-069	·0558 ·0536	-071	-0544 -051	-070 -069	·0583 ·056	-0705	073
ву	BU	вт	BS	BR	ва	ВР							
-089	-090	-088	-088	-089			AX	AW	AV	AU		AS	AR
-089	-085	·088	-0856	-089	-089	-089	-089	-090	089	-089	-088	-089	089
-081	-080	-0835	-0836	·085	-085	-085	-0843	-085	085	-084	-0856	-0845	085
-078	-077	·0833	-0836		-082	-0814	-0807	·C807	-0805	-0815	-0833	-079	082
-076	-0745	-0792	-0798	·0785 ·0757	-079	-078	-0775	.078	0773	-079	-0809	-075	0795
-074	-0743	-0771	-0778	-075	-075	-074	-075	-0757	-0742	0773	0785	∙072	0771
-072	·0/2 ·0695	·07/1	-07/8	-075	-0725 -0705	0715	-073	-0735	-0717	-0755	-0761	-0692	0748
-07	-0675	·0749	-074	·0/41 ·0735		-0695	-071	-0713	-070	∙0737	-0738	0665	073
-068	·0673	·0726	-072	-0735	-0685	-0673	-0692	-0693	-0675	-0717	·0714	-0635	0712
-066	·0625	-0/05	·072 ·0701		-0662	-065	-0675	-0674	-065	-0698	-069	-061	-0696
-064	-0602	-0663	-0/01	·072 ·071	-064	-0625	-066	-0655	-0625	-068	-0666	0586	∙068
	-0502	-064	-0664	-070	-0616	-060	-0645	-0637	-060	-066	-0643	-056	-066
	.030	.004	10001	1 .0/0	-0594	-058	-063	-0618	-059	-064	-0619	0533	-064
-060	-056			-069	-057	-056	-0615	-060	-058			-051	

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вw	вх	BXt	BY	8Z			CS2	СТ	cu	cw	cx	CY	cz
.089	-089	-089	-088	-089			-089	-089	-089	-089	-089	-089	-089
-0855	-085	-085	-084	-0843		i i	-085	-085	-085	-085	-085	-085	-085
-0818	-0805	-0827	-0805	-081			-081	-081	∙0825	-081	-081	-080	-082
.079	-077	-081	-0775	-0752		1	-077	-077	-080	-079	-0796	-076	-080
0765	075	-0792	-0745	-0719			·073	-0738	-0775	-078	-0788	0738	-078
-0742	-0735	-0777	-0725	-0686			-069	∙0706	-0735	-077	-078	-0715	-074
-0718	-072	-076	-0709	-0653		1	-065	-0675	0715	-0763	-0771	-0695	-072
-0693	-0705	-075	-069	-0622			-0615	-0643	-070	-0754	-0763	-068	-071
-067	-0687	-074	-067	-059			-058	-061	-0683	-0745	-0755	-067	-069
-0645	-067	-073	-0653	.056		1	-0546	-058	-0665	0736	·0748	-066	-067
-062	-0655	-072	-0635	-053			-051	-0547	0647	-0727	∙074	-0655	-065
-0596	-064	-071	-062	-050			-0475	·0515	·0630	-0718	-073	-065	-064
-057			-060	-047			-044	-0485	·0610			·0645	-062
c	CA	СВ	сс	CD	CE	CF	D1	D2	D3	D4	D6	D 7	D8
-089	-089	-089	-089	-089	-089	-089	-089	-089	-089	-089	-089	-089	-089
·089 ·0845	·089 ·0855	-085	-089	-085	-085	-085	-085	-085	-085	-0855	-0855	·0855	-085
0845	-0855	·0805	-085	-085	-082	-083	-082	-0815	-083	-0825	-0835	-0855	081
-077	-0825	-0805	-078	-0813	-0795	-0805	-0802	-0800	-081	-0805	-0805	-0817	-078
-07/2	-0825	-07/ -0745	·078	-0735	0777	-0787	-0793	-0795	-080	-079	-0793	-0785	-076
		-0725	-070	-0733	-076	-0767	0785	-0790	-0794	-078	0785	-0783	-076
-071	-0807							-0785	-0785				
-0683	-0803	·071 ·0695	-0698 -067	-069 -0678	-0745 -0735	·0747 ·0727	-0776 -077	-0780	-0788	-0767 -0756	.0776 .077	-077 -0765	·075
-066 -0635	·0803 ·0803	-068	-064	-0666	0735	-0727	-0764	-0780	-0772	-0745	-0764	-0759	
				-0654					·07/2		0759		073 072
-0613	-0803	-0665	-061		-071	-0687	-0759	·0770		-0733		·0752	
0594	-0803	-065	·058 ·055	-0643 -063	·0695 ·0682	-0667 -0647	-0752 -0748	-0765 -0760	·0757 ·075	-0721 -071	-0752 -0748	-0747	-071
0575	-0803	-0635			-0682	.064/	-0/48	.0760	.0/3	10/1	-0/48	-074	-070
·056	-0803	-062	-052	-062	-067								
cc	сн	cj	СК	CL	СМ	CN	D9	DA	DB	DC	DD	DE	рн
·090	·0 9 0	-090	-090	-090	-088	-089	-089	-089	-089	-089	-089	-089	-089
·084	∙084	-084	-084	∙084	-084	-085	·0852	-084	-085	-084	∙0855	-0855	-085
-081	-0805	-0815	-081	-080	-0805	·0812	∙0825	.082	-082	-082	-0835	·0825	∙082
-079	-0782	-0795	-079	-0775	-0775	-078	·0806	-080	-080	-0805	-0817	·0802	-080
-0765	-0767	-0775	∙0775	-076	-074	-075	-0791	.0788	-078	-0796	∙0798	·0772	-077
-075	-076	0761	-077	-075	-0718	∙072	-0778	·0784	-0753	-0794	-0782	·0745	·074
-0735	-0756	-0747	-0766	-0746	-070	-069	-0764	0780	-0717	-0792	-0767	-0734	-072
-0722	-0752	-0734	0762	-0742	-0685	-0665	-075	-0776	-0674	-0790	-0752	-0729	-071
-0707	-0747	-072	-0757	-0737	-0668	.064	∙0736	-0773	-062	0787	·0740	-0723	-070
-0693	-0743	-0705	-0753	0733	-0652	. 062	·0723	-0769	-0557	-0785	-0730	-0717	-069
-0678	-0738	-0692	·0749	0728	-0635	-060	-071	-0765	-0493	-0783	∙0720	-0712	-068
-0664 -065	-0723 -073	-0677 -0664	-0745 -074	·0724 ·072	·062 060	-058 -056	-0696	-0761	-043 -0368	-0780	-0710	-0707	∙067 •066
-065		-0664		-072		1036			-0366				
со	СР	CP4	ce	CR	cs	CS1	DJ	DK	DL	DM	DN	DP	De
-089	-089	-088	-088	-088	-089	-089	-089	-089	-089	-089	-0885	-089	-089
-085	-085	-0852	-0852	-0852	-085	-085	-085	-085	085	-084	-085	-085	-085
·081	-0813	-0825	-0825	-083	-0822	081	-0822	-0817	-082	-081	-082	-081	-081
-0787	-0793	-079	-0798	-0805	-0792	077	-0795	-0787	-0795	-0791	-080	-0777	-078
0765	0775	-0757	-0768	-078	-0765	-073	-0765	·0755	-077	-0780	-0782	-075	-076
0747	0757	-0725	-0737	-0754	-0725	-0692	-073	-072	-0745	-0775	-077	-0735	-073
.073	-074	-069	-0706	-0725	-0706	-066	-071	-070	-0715	-0770	-076	-0723	-071
0725	-0735	-0655	-0676	-0697	-069	-063	-070	-069	-070	0765	-075	-0715	-070
072	-073	-062	-0646	-067	-0672	-060	-069	-068	-0685	-0760	-074	-071	-069
0717	0725	-0585	-0615	-064	-0655	-057	-068	-067	-067	-0755	-0728	-0703	-068
0714	-072	0545	-0585	·0613	-0638	-054	-067	-066	-0655	-0750	-0717	-0698	-06
.071	-0715	-051	∙0555	-0585	-062	-051	-066	-065	-064	-0745	∙0705.	-069	-06
		-047	-0525	-0556	-0605	-048	-065	-064	-0625	1		-0688	06

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DR	D\$	DT	טם	DV	DW	DY	EP	EQ	ER	ES	ET	Eυ	EV
·088	-089	-088	-089	-089	-089	-089	-089	-089	-089	-089	·088	-089	-090
-085	-085	-084	-085	-084	-085	-085	-085	-085	-085	-085	-086	-085	-0855
-080	-0805	-081	-081	-0822	-0815	-079	-0835	-0817	-0833	-0818	-0845	·0825	·0815
·0768	-0776	-078	-0775	-081	-0795	-0765	-0815	-0785	-081	-079	-0825	-0805	-078
0735	0759	-076	-0755	-0792	-0780	-074	-0795	·076	0777	-077	-0803	-0785	075
0705	-074	074	-074	-0781	-0765	-0715	-0775	-0746	-074	-0755	-0781	-077	-0725
0675	-0725 -071	-0723	-073	-078 -078	-0752 -074	-069	-0755	-0732	-0725	-0748	-0773	-0755	-0705
·065 ·0635	-0/1 -0695	-0712 -0709	072 071	-078	-0728	-0665 -0643	-075 -075	-072 -071	-0712 -0706	-074 -073	077 077	·0745 ·074	-069
-0627	-068	-0705	070	-078	-0714	062	-075	-070	-0706	-073	-077	-074	-068 -067
0618	-067	-0703	069	-078	-0714	-061	-075	-069	-0706	-073	-077	-074	-066
-0608	-066	-0701	-068	-078	-0686	060	-075	-068	0,00	-073	""	1 777	-065
-060		-070				-059							
DZ	E2	E2/1	E3	E3/1	E4	EA	EW	EX	EX/1	EY	EZ		
-089	-088	-089	-088	-088	-088	-089	-089	-088	·088	-088	-088		
085	0845	-085	-0862	-0845	-084	-085	-085	∙0862	-0865	-0856	-0865		
0827	-081	-0826	-083	-0817	-080	-081	-0825	-0835	-084	-0835	-0838		
0795	-0775	0788	-0803	-079	-078	-078	-081	∙081	-0816	-0812	-0798		
077	.075	-0763	-0775	-076	-076	-075	-079	-0785	-0794	-0789	-0775		1
·0745	·0725 ·070	·0736 ·0711	-0747	-073 -070	-0739 -0718	·072 ·0695	-0775 -0755	-076	-077 -0745	-0741	-0751		ŀ
070	-0675	·0/11	-072 -0693	·0/0	·0/18 ·0695	-0695	-0745	·0735 ·071	·0/45 ·072	-0716 -0708	-0737 -0726		
0685	-0546	-066	-0665	-0646	-0673	-06/5	-074	-0/1	-0/2	-0704			
067	-0626	-064	-0638	-0626	-0673	-062	-074	-066	-0675	-0701	-0716 -0706		l
0655	-0605	062	-062	-0605	-063	-0595	-074	-0635	-065	-0698	-0696		
064	-059	-060	-060	-059	-061	057	10/7	061	0627	-0070	-0070		l
0625	-057	058	-0582	-057	-059	0545		-058	-0602				i
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EB	EC	ED	EE	EF	EG	EH	FA	FB	FC	FD	FE	FF	FG
-089 -0855	-089 -085	-089 -085	-089 -085	-089 -085	-088 -085	-089 -085	-089 -085	-089 -085	-090 -0865	-088 -0865	-089 -085	-089 -0856	-089 -085
0835	-081	-0825	-080	-082	-080	-082	-081	-0806	-083	-084	·063 ·081	-0822	·085
0815	-0775	-0805	-0777	0795	-0768	-0805	-077	0767	-0795	-0805	-0775	-079	-075
0795	-0740	-0785	-075	077	-074	-0788	-072	-0729	-076	078	-074	-0757	-071
0777	-0705	-076	0735	074	-071	-0775	-067	-070	073	-076	-071	-0722	-0678
0762	-0675	·074	-072	-072	-0685	-077	-063	-0687	-071	-075	-0695	-0700	-065
075	0645	-072-	-0715	071	∙0665	-077	-060	-0676	-070	074	-0686	-0672	-0625
074	-0625	-070	·0709	-070	-065	-077	-0585	0667	-069	073	-0678	-0651	-060
073	0605	-068	0703	-069	∙0637	-077	-0576	-0658	-068	-072	-0671	-0639	-058
072	-0585	-066	-0696	-068	062	-077	-0567	-065	-067	·071	-0664	-0622	-056
071	·0570 ·0555	·064 ·062	-069	-067 -066	-061 -060	-077 -077	-056 -055	·0643 ·0635	-066 -065		·0657 ·065		·054 ·052
El		EK	EL	EM	EN	EO	FH	FI FI	F)	FK	FL	FM	FN
089	-089	-089	-089	-089	-089	-088	-089	-089	-090	-089	-089	-090	089
085	-085	-085	-085	085	-085	-085	085	-085	-085	-085	-085	-083	-085
081	-0805	-0827	-080	-081	-0813	-0806	082	-0825	-081	-083	-079	-0796	081
0775	-076	-081	-0775	-078	-0778	-0773	-080	-079	0775	0612	-0765	-0772	0775
073	-0715	0792	-0747	-0763	074	-0746	-079	076	-076	-0796	-074	-075	0735
069	·06B	-0777	-072	-0747	-0706	∙072	078	-073	-0745	-0784	0715	-0727	-069
066	-065	-0762	-070	-073	-068	-0697	-077	-0705	-0725	-0772	-069	-0703	-066
	-0625	.075	-068	-0725	-0657	-0677	-076	-0693	-071	076	-0665	-068	-063
0635		075	-066	-072	-0643	-0668	-075	-0682	-070	-0748	-065	-0657	-061
0635 0618	·0605	.075											
0635 0618 060	-059	-075	-064	-0715	-0632	-0659	-074	-067	-068	-0736	-065	-0635	-058
0635 0618 060 059	·059 ·058	·075 ·075	·064 ·062	-0715 -071	-062	-065	073	0656	-0665	-0724	-065 -065	-0612	·058
0635 0618 060	-059	-075	-064	-0715									

				٠.(90 .	JET N	NEED	LES					
FO	FP	FQ	FR	FS	FT	fU	GN	GO	GP	GR	GS	GT	GU
-089	-0898	-0890	-089	-089	-089	-089	-089	-089	-089	-089	-089	-089	-089
-085	·0855	-0850	-085	-085	·085	·085	-0855	-086	-085	·085	-085	-085	-0855
-0818	-0826	-0820	-081	-0827	-082	·082	-0835	-0845	-080	-082	-0815 -0785	-082	-083
-0785	-0799	-0795 -0774	-078 -075	-081 -0785	-0795	-080	-081 -078	-0825 -0792	·076	·079	-0755	·0795 ·077	-0805 -0775
-076 -0745	·0778 ·0762	-0758	-0728	-076	·0772 ·0753	-078 -0763	-0755	-0777	0725	075	0735	-0745	0745
-0731	-0754	-0745	-0705	-075	-0738	-075	-0725	-0765	-0696	-073	-070	-071	0705
-0729	-0750	-0735	0685	-074	-0728	-074	-070 ⋅	-0755	-0666	-071	-0675	-0675	-067
-0727	-0743	-0725	-0663	-073	-0724	-0733	-0675	-0750	-0636	-069	-0650	-0640	-0635
-0725	-0735	-0715	-0642	-072	-072	-0728	-0650	-0745	-0606	-067	0625	-0605	-060
-0723	-0728	-0705	-0622	-071	-072	0724	-0625	-0740	-0577	-065	∙060	-0570	-0565
-0721	-0720	-0695	-060	-070	-072	∙0714	-060 -0575	-0735 -0730	·055 ·052	-063 -061	·0575	·0535	-053
		FX.	FY	F7			GV	GW	GX	GY	GZ		
FV	FW			- <u></u>	l								
-089	-089	-089 -0855	-090 -085	-089 -085	!		-089 -0855	-089 -085	-089 -0855	-089 -0855	-089 -0855		
-085 -083	-085 -081	-0855 -0827	·085 ·081	·085 ·0813			-0836	-083	-0835	-0832	-0835	i	İ
-080	-0775	-080	-0775	0789			-082	-080	-0815	-0812	-0811	ŀ	
.0773	-075	-0775	-075	-077			-0804	-0775	-0795	-079	-0788	ļ	l
-0745	-0725	-075	-0735	-0756			-080	076	∙0775	-077	-0765		
-0715	-070	-0715	∙072	-0748	İ		-0796	0745	-0755	-0753	-0742	1	
-0686	-0675	-068	·071	-074			-0793	-073	-0735	-074	-072		ŀ
-0658	-0665 -0665	-0653 -0627	-070 -068	-0735 -073			·0793	-0715 -070	-072 -070	-073 -072	·0698 ·0676	l	
-0647 -0636	-0665	-060	-066	-0725			0793	-0685	-068	-071	-0655		
-0625	-0665	-059	-064	-072	1	1	0793	-067	-066	-070	-0631		
-0614	-0665	-058	-062	-/-			-0793	-066	-064	-069	-061		
G2	GA	GB	GC	GD	GE	GE/R	Hi	H2	H4	Н6	на	нв	нс
-0875	089	-089	-089	-089	-089	-089	-088	-088	-089	-089	-089	-089	-089
-0835	-085	-085	-085	-085	-0845	-085	-085	-085	-085	-0855	-085	-085	-0855
-081	-0795	-082	-083	-0833	-082	-0825	-082	-082	-081	-082	∙0825	-0825	-0822
-0785	-077	·07 9 5	-080	-081	-0793	-0795	-0792	-0792	-0778	-080	-0805	-0805	-0805
-0765	-074	-0771 -0748	-0773 -0740	-079 -0766	-0766 -0739	-076	-0762 -0735	·0762 ·0735	-076 -0741	-078 -076	·0785 ·077	-0785 -0776	-0785 -077
-0745 -0725	-0715 -069	-0/48 -073	0705	-0705	-0712	0725 069	0707	-0707	-072	074	-0756	-0764	0755
0705	-067	-0712	-0665	-0743	-0686	-066	-0686	-0684	-0702	072	-074	-0752	0751
-069	-065	-0696	-0630	-0738	-0656	-064	-0665	-0661	-0683	-070	-0727	-0743	0747
-0674	-0632	-0685	-0605	-0738	-0643	062	-0644	-0638	-0663	-068	-0711	-0732	-0743
-066	-0615	-068	-0590	-0738	-0627	-0615	-0622	-0615	-064	-066	-0698	·072	0739
-0642	-0597 -058	-067	·0575 ·0560	-0738	·0627 ·0627	-061 -0605	·0601 ·058	-05 92 -057	-062	-064	-068 -067	-071 -070	-0735
GF .	GG	GН	GI		GL	GM	нр	HE	HF	нg	HV2	HV3	HV4
-089	-089	-089	-089	-089	-089	-089	-089	-090	-090	-089	-089	-089	089
-085	-087	-0845	-085	-084	-084	-086	-0855	-0845	-0845	-0845	-084	-084	-084
-0795	-0845	-082	-0825	-0817	-082	0842	·0825	·0817	·082	-0823	-080	-080	-080
-077	-0825	-0786	079	·0792	·0795	-0817	-081	-080	-0805	-0802	-0778	·078	-0782
-0745	-0808	-0753	-075	-0770	-0772	-0782	-0795	-0787	·0797	·0782	0756	-076	-0764
-073	-079	-0695	·0715 ·069	-0745 -0717	-075	-0770	-078	·078 ·0776	-079 -0787	·0753 ·0737	·0734 ·0712	·074 ·072	-0746
-072 -0715	-078 -077	-0635 -0586	·069 ·067	·0717 ·0696	·0727 ·0706	-0758 -0750	0766	-0772	-0/8/ -0784	-0737	-0/12	-072	·0728 ·071
·0715 ·071	·077 ·0758	-0570	-0665	-0675	-0685	·0/50 ·0745	·0762 ·0758	-0769	-078	-072	-0668	-068	-0692
-0703	0745	-0565	-0665	-0654	-0664	0740	0754	-0766	-0776	-068	-0646	-066	-0674
-0696	-0732	-0565	-0665	-0632	-0642	-0735	0751	-0763	-0774	-066	-0626	-064	-0656
-069	.072	-0565	-0665	-0611	-0621	-0730	-0748	-0759	-077	-064	-0602	-062	-0638
				-059	-060			-0755	-0766	.062	-058	-060	-062
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				·(90.	JET N	NEED	LES					
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0752			i		1		077	-0767	-0765	-0761	-0758	-0755	-075
0729				Ī			-0755	-0749	-0744	-0737	-0733	-0725	-07
.0702	i .		1		1		-074	-0732	0723	-0714	-0705	0696	-064
-068			1	1	1		C725	-0714	-0703	-0692	-068	-0666	-06
-0653		1					C71	-0696	-0683	-0668	-0653	-0636	-06
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-058							-066	-064	-062	-060	-058	-052	-049
													
L	L11	L12	LS	LS1			20	21	24	24A	24B	61	62
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-081	-0801	·081	-080	-030		1	-0822	∙0827	-0815	-0815	-0815	-0805	-08
079	-0772	078	-077	-0765	1		-0792	-080	-0785	-0785	-0795	0775	-078
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-075	-0722	-073	-0705	-071	l		∙073	-075	0725	0738	-0755	∙0725	-07
-0735	-0702	-0702	-068	0798		1	-0703	-0723	-0702	·0716	·0735	-0709	-071
.072	-0675	-0675	-0658	-0678			-0677	-0697	-0682	-0698	·0715	-069	-070
-071	-065	-065	-0636	-066	l		-0647	-0671	-0667	-068	-0695	-067	-068
-070	-0625	-0625	-0613	-064		1	-0624	·0646	-065	-066	-0675	-0635	-067
-069	-060	-060	-059	-062		į l	-060	-0628	-0636	-064	-0655	-0635	-065
-068	∙0575	∙0575	-057	-060			-058	-0608	0625	-062	-0635	-062	-063
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-0745	-0737	-0745	·07 4 5	·0754	-0762	-0767	-074	-0705	-0699				
0726	0717	.0725	-0729	-0738	-0747	-0752	-073	-068	-068	i]	
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M9	MA	MB	MME	MO	MOW	MW	07						
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0717	-0705	-0627	-0563	-07375	-0745	0757	-073		i	ì	- 1	i	
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0785	-0775	077	0807		Į	- 11	075		1			1	
0755	-0738	0746	-0795		1	11	.073	1	- 1		1		
073	-0703	0715	·079 ·0785			- 11	-071	- 1	l			1	
070	-067	·0684 ·0653	078	- 1	ĺ	- 1	-0698		1	1	i	1	
0675	-0638	-062	0775	- 1	İ		-0678						
0645	·0603 ·057	-059	077	1	- 1	i i	-066	i	- 1	1	i	1	
·06175 ·059	-054	-056	0765			- 1	-064	Į.					
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-0642	-066		!				-0678	-0686	-0665		1		
-0615	-0636						-0658	-0666	-065			i	
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-0805	-0805	-081	-081	·0804	-081	-0823	-0805	-0314	-082				
0776	-0776	-077	-077	-076	-077	-081	-078	-0785	-0795	i			İ
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-065	-065	-054 -051	-0526 -0495	·0526	-0558	076	-065	-0709	-0709	1	1	1	1
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-089	-0895	-0895	-089										
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-0806	-079	-078	-077				11		1			1	1
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-0774	-0744	-073	-0715						1		1		1
0758	-0722	-0707	-069	1	1	1	11		1	i		1	1
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098							100			-100	-099	-099	-099
0946		1	1		1		094			-095	-095	-095	-0935
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-088	1	1	1		İ		085	1	1	-0865	0895	-090	087
-085	1	1				1	-081			-083	-0876	-0886	-084
-0834	1	ļ					078			-080	-0855	-0872	-082
-0818			1		i	i	075	1		-0777	-0835	-086	-080
0802			1	i			072			-076	-0814	-085	-0785
0787	İ		1	!	1	1	-069		i	-074	-0793	-0845	-0765
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0706		1			1	i	. 057	1	İ	-0667	-078	·0′ 25	-0695
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-095	1	1		ŀ		1	-093	-099	-099	-099	-099	-098	-099
-091						1	-095	-095	-095	-095	-0935	-094	-095
-088	ļ		1				-0908	-0917	-091	-0915	-0883	-090	-0925
-085	1						-0883	-090	-089	-0895	-0863	:0865	-0893
0825	1		ľ		1	1	-0856	-0885	-0875	-0875	·0843	-083	-086
0903	1						-083	-087	-0855	-0855	-0825	-080	·0828
-0785			1	1	1		0775	-0848	-0835	-0841	-0805	-0777	-0795
-0765	i	ı			i i	1	-074	-0838	082	∙0834	-0785	-076	-0738
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073		İ	1			1	-067	-0822	-080	-0820	-0735	-0722	-0517
.072				1	1		-0635	0815	-0795	-0810	-071	0705	·042
-071		ŀ	1	-			-060	-0808	·079	-0800	-0685	-0685	-042
-070			l	i	1	1	-0565	-080		-0790	-066	-0667	-042
CI	CIW	CV	 				·053	-0792	079	-0780		-065	-042
-099	-099	-099					KT	KTA	KW	KWI	KW2	KWR	
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0916	-093	-090			l		-095	-095	-095	-095	-095	-095	
0889	-0905	-0867		i			-0905	-0895	·0 9 1	·0915	-0905	-090	
0861	-0875	-084					-087	-0865	·0877	-0885	-0875	-087	
-084	0856	-0815	1	l	1		-0845	0835	-084	-0851	-0845	-084	
0818	-0836	-0795		İ	1		-0822	-0815	-0805	-082	·0815	∙081	
0796	-0819	-0775			i		0802	-0802	-077	-079	·0788	∙0786	
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·074 ·073	·0/6	-0732					-075	·076	-0661	·0695 ·0663	0695	-0695	
-072	-0746	-071					-074	-074	-060	-063	-0663 -063	·0663	
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067	-0653	-0565	ĺ	ł		i	-078	-0775	-061	-0804		060	
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53	55	58		OA6	OA7	BAO	SA	SB	sc	SD	SE	SF	sG
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090	-090	-090		-0917	-093	-094	-0915	-091	-0915	-0912	∙0915	-09125	091
0858	-0858	0858		0887	-0902	-0913	-0885	-0875	-0882	-088	-0903	-0895	-090
0815	-0815	0815		-0856	-0872	-0888	-086	-084	-0865	∙0862	-0888	-08825	-088
0777	-078	-078	-	0825	-0843	-086	-084	-080	-0845	·0842	-087	-087	-087
0738	-074	-0744	1	-0794	-0814	0835	-0815	-076	-0823	-0822	-0852	-08575	-086
-070	-070	-0712		-0762	0786	-0808	-079	-072	-080	.080	-0845	-085	-086
-0668	-067	-0685	i	-0731	-0757	-0782	-0768	-0695	-079	-079	-084	-0845	-089
-0636	-064	066		-070	-0727	-0755	-0743	-067	078	078	-084	-084	-085
0606	-062	-054		-067	-070	-073	-072	-064	-077	-077	-084	-084	-085
0579	-060	-062		-064	-067	-0702	-070	-062	-076	-076	-084	-084	.085
0552	-057	-060		-061	-064	-0675	-068	-059	-075	-075	-084	-084	-085
0532	-055	-058		-058	-061	-065	-066	-057	-074	-074	-084	-084	-085
RA	RB	RC	RD	RE	RF	RG	SH	Sj	sĸ	SL	SM	SN	so
 ·100	-099	-099	-099	-099	·100	-100	-099	-099	-099	-099	-099	-099	-100
094	-095	-0946	-095	-095	-095	-095	-0952	∙095	0954	-095	-095	-095	-096
088	-0907	-090	-090	-092	-090	0905	-0917	·0 9 2	-093	-092	-0915	-0915	-092
-083	-0866	0855	-0865	-089	-0863	-087	-0885	-0895	-090	-089	-0885	-0885	-089
0785	-0825	-081	-0835	-0856	∙0825	0836	-0865	-0875	-0867	-0867	-0855	0865	-086
0753	-0784	-0765	-081	-0805	-0788	-0802	-0845	-0855	-0833	-0833	∙0825	-0845	-08
0722	-074	-072	-079	-0753	-075	0768	-082	-0835	-080	-080	-0795	-0835	-080
-069	-070	0674	-077	-0712	0712	-0732	-0793	-0815	-077	-077	-0765	082	.07
0658	-0657	-0627	-0757	-0670	-0675	-070	-077	-0792	·074	-074	-0735	-080	-075
-0627	-0615	-0583	-0742	-0628	-0637	-0665	-0743	-077	-0714	-0714	-071	-078	-074
0595	-0575	-0537	073	-0587	-060	-0630	·0722	-075	-0695	-0695	-069	0765	-07:
0564	-0532	0492	0715	-0543	-057	-060	-070	-073	-0676	-0676	-067	-075	.07
-053	-049	-0446	-0703	-0501	-054	-057	-068	-071	-065	·065	-065	-074	-072
050	-045	-040	-069	-0460	-051	-054	-066	-069		-063	-063	-073	
RH	RI	Rj	RK	RL	RN	RP	SP	50	SR	SS	ST	su	s٧
100	-099	-100	100	-100	099	-099	-099	-100	-099	099	-099	-099	-099
-095	-095	-095	-095	-095	-095	-095	-095	-095	-095	0945	-095	-095	-09
-0915	-0912	-0910	-0915	-0920	-092	-0905	-0915	-0915	·0 9 2	-0905	∙0925	-0992	09
0878	-0881	-087	-088	-089	-089	-087	-0892	-088	-089	-086	-0895	-0868	-089
0846	-0846	-0844	-0854	-086	-0859	-085	-0871	·0854	-086	-084	-087	0834	-084
0813	-0804	-0818	-0830	-0835	-0808	0832	-0852	-083	-083	-080	-0852	-0802	-08
078	0763	-0792	-0805	0810	-076	082	-0834	-0812	-0804	-0755	-0831	-0764	-08
-075	-0722	0766	-7080	-0785	-0721	-0815	-0810	-0794	-0778	-0715	-0805	0728	-07
-072	-067	-0740	0756	-0760	-0688	-0809	-0786	-0775	-075	-0655	-0787	069	-07
-069	-0605	0714	-0732	-0735	-0651	-080	-0762	-0757	-0743	-059	-077	-0655	-07
-066	-0567	0688	-0708	-0710	0617	-0794	-0738	-0738	-0737	-0535	-0753	-062	-06
-063	0525	0662	-0683	0685	-0581	-0786	0714	-0719	-073	0485	0737	-0586	-06
-060	-049	0630	-066	-0660	-0547	-0778	-069	-070	-0722	-045	-071	-0552	-06
.057		0610	-0635	-0635	-0510	-077	-0666	-068	-0715	-042	-069	-0518	-06
RR	RU	RV					sw	sx	SY	sz			
-099	·100	-100					-099	-099	-099	-099			
095	-095	-095	İ	!			0955	-095	-095	-0945		1	
0922	-089	-089	l				0925	0902	-091	-0903			
0895	-084	-084]]	-088	0868	-0875	0858	i	i	
086	-081	-081				1	-086	-084	∙0855	∙0837			
-0808	C785	-0785					-084	0808	-0825	-0798			1
-076	0756	0755		1	1		-082	-0774	-078	-0753	1		
-0721	0733	-073	1	1			-0795	-0744	-075	-0707			
0688	071	-070					-077	-0713	-069	-0643	!		İ
0651	-0683	-067					-0745	-0686	-063	0570	1		
0617	-066	-0645		1			072	-0657	-0575	-0508	1		1
-0581	0636	0618	1	1	1		-0695	-063	∙0525	-0470	1	1	1
-0547	-061	-059	l		1	1	-067	-060	-049	-0445	1	1	1
-051	-059	-056	1	1	1	1	-0645	-0572	-046	-0420	1	1	1

					100	JET	NE
TA	тс	TD	TE	TF	TG	тн	
-099	-099	-099	-099	-099	-099	-096	7H_
-095	-095	095	-095	-096	-095	-092	11
-0915	-0 9 15	-0925	-092	-0925	-0922	-0908	П
0882	-089	-090	-0895	-089	-0895	-0893	11
0867	-087 -085	·0875	-087	-0855 -082	-0878	-0878	Ш
0831	-0832	-0803	·0837 ·0805	082	-0862 -0847	-0863 -0848	Ш
-0805	0825	-077	-076	-0748	-0837	0825	11
-0787	-0815	-073	0715	0714	0827	074	Ш
-0770	-0805	-0678	-067	-068	-0818	-065	Ш
-0753	-0795	-0631	-0625	-0645	-0812	-055	П
∙0737	-0785	-0585	-058	-061	-0806	-049	П
-0710	-0775	-0538	-0535	-0575	-0800	-044	
-0690	-0765	-049	-049	-054	-6794	·0 1 0	-11
TJ	TK	TL	TM	TN	то	TP	Ш
099 095	-099 -095	-099 -095	-099 -095	-099	099	-099	П
-092	-092	-093	-092	-0945 -091	095 092	-0955	Ш
-0895	-092	-089	·092 ·0894	-091	092	·092 ·090	1-
0877	-0885	.086	-0867	-085	-0865	0875	
-086	-087	-0835	-0842	-082	-0845	-0856	
-0845	-086	-081	-0814	-078	-083	-0836	1
-084	-0855	-0793	-0785	-073	∙082	-0819	1
-083	-0845	-0776	-0775	∙0665	-081	-080	1
-082	0835	0759	077	.060	-080	-078	
081 080	-0825 -0815	-0746 -0733	-077	-0535	-079	-076	
-079	0805	-0733	-077 -077	-050 -0475	·078 ·077	·0752	1
-078	-0795	-071	-077	045	-076	-074	Ш
TR	TS	TT	TU	ΤV	TW	тx	
-099	-099	-0989	-099	-099	-099	-099	\parallel
-095	-095	·0941	-095	-095	-095	-095	1
·092 ·089	·0915 ·088	-0904	-091	-0925	-0925	-091	Ш,
-0869	-0853	-0883 -0861	-088 -085	-090 -088	-0895 -087	-0894 -0867	Ш.
-084	-0823	-0825	-083	-086	-0852	-0867	Н.
-0817	-0812	-0799	-081	-084	-0831	-0814	∏ -
0791	-0782	-078	-0793	-0825	-0805	0785	П.
-0765	-0742	-0766	-0776	-081	-0775	-078	Ш.
∙0738	-0710	·0748	-0759	-080	-075	-078	Ш.
-071	-0675	-0733	·0746	-0795	-0722	-078	Ш.
-0685	-061	-0721	-0733	-0785	-070	-078	Н.
-063 -062	-055 -049	·0715	·072 ·071	·0775 ·0765	·068	-078 -078	-
TY	TZ			WO2	WO3	WO4	
·09 9	-099			·100	·100	·100	$\parallel \parallel$
-095	-095			-095	-095	-095	۱′ــ
-0918	-0915			-091	-091	-090	1
·0887 ·086	-0893 -087			-087	08775	-086	l
·086 ·0836	·08/ ·0847			·0835 ·081	·0845 ·0822	-082 -0794	l
-0825	-0827			-0785	-0822	·0/94 ·0768	l
-0805	-0805			-0763	-078	-074	1
-0775	-0787	1	×	-0732	-0755	-0712	1
-075	-077			-071	-0735	069	1
-0722	-0753			-0683	-0712	066	1
-070	-0737	- 1		-0657	069	0634	l
-068 -066	·071 ·069			-063	-067	·061	
-066	-069			-061	-065	-058	l

IEEDI	LES					
ZB	zc	ZD	ΖE	ZF	ZG	ZH
099 095 0915 089 0865 084 082 0775 0755 0735 0735 0767 063	099 095 091 088 0855 083 081 0745 0745 0725 065 065	099 095 090 865 084 0815 079 077 0745 072 069 065 0605	-099 -095 -0858 -083 -0805 -0782 -076 -0732 -0703 -0673 -0629 -0584 -0495	099 095 089 085 0821 0778 0775 072 0687 065 0608 0563	.099 .095 .089 .0845 .0815 .079 .0765 .074 .071 .0675 .063 .059 .054	-099 -095 -0915 -0893 -0847 -0847 -0755 -0775 -0755 -0735 -0765 -0695 -0675

		·125 JI	ET NEI	EDLES		
NA	UA	UB	υc	UD	UE	UF
124 1205 1170 11144 1125 1108 1090 1078 1063 1065 1065 1065	-124 -1205 -1175 -1117 -1074 -1023 -0974 -0931 -0890 -0849 -0868 -0767 -0726	-124 -120 -1165 -113 -111 -109 -107 -1055 -104 -103 -102 -101 -100 -099	-124 -1205 -118 -1153 -1128 -1107 -1086 -107 -1056 -1046 -104 -1032 -1025 -1018	-124 -1205 -1178 -1158 -1154 -1115 -1104 -1092 -108 -1069 -1064 -1058 -1047	-124 -1205 -1155 -1155 -1112 -109 -107 -105 -103 -1015 -100 -099 -098 -0965	-124 -1205 -1163 -113 -1106 -1073 -1035 -0997 -0960 -0926 -089 -0894 -0819 -0783
·1065 .·1065	·0685 ·0644	·098 ·097	-101 -1002	-1036 -1025	·095 ·0935	-0748 -0713

				·1	25	JET N	IEEDI	.ES					
UG	υн	UI	UJ	UK	UL	υм	VA UVA	VB UVB	VC UVC	QV QVU	VE	VF UVF	VG
·124	124	-124	-124	·124	·124	-124							324
·1205	1205	-1205	-1205	·1205	·1205	-1205	124	124	-124	-124	124	·124	-124
·116	1165	-1172	-1165	-116	-1173	·1165	·1188	·1188	·1188	-1184	·1178 ·1125	·1172 ·1114	·1166
112	·1135	·114 ·1114	·1135 ·1105	·113 ·1106	·1140 ·1113	·114 ·1123	·1145	-1145 -111	·1145 ·111	·1135 ·1096	·1125 ·108	1063	1047
·1084 ·1054	·1105 ·1085	1092	-108	-1073	-1090	-1104	108	-108	-108	1076	104	-1003	·100
1023	1065	1072	-1055	1075	-1076	1086	1061	-1056	1052	-103	1008	-0985	-0962
-099	-104	1051	1033	-0997	-106	1000	1044	1034	-1025	-100	-0975	-095	-092
-0954	1015	1032	·100	-0960	-1035	-1056	-1025	101	-0997	-097	-0943	-0915	-088
0923	-099	1018	-097	-0927	-1006	1046	1006	-0986	-097	-094	-091	-088	-085
-0895	-0965	·1006	-094	-090	-098	-104	-0987	-0964	-0943	-091	-0877	-0845	-081
0875	-094	-0995	-091	-0875	-0956	·1032	-0968	-094	-0915	-088	-0846	-081	-077
-086							-095	-0917	-0888	-0852	-0814	.0775	-073
-0845	-0915	∙0985	-0875	-0860	-0937	·1025	-0932	-0895	-086	-0822	-078	·074	-070
-083	-089	∙0975	·0845	-0845	-0917	·1018	·0913	∙0872	-0833	-079	-075	-0715	-066
-0815	-0865	-0965	-0815	-0830	-0897	-101	-0895	-0848	-0805	076	-0715	-067	-062
	-084	-0955	-080	-0815	-0877	·1002	-0875	-0825	-0777	·0732	-0685	-0635	∙058
UN	υo	UP	UR	us		UU	VH	VI UVI	ty tyu	VK UVK	VL UVL	VM UVM	NV 1VU
UN	00	UF	OR	US	0,	"	"	011	01,	011	0,1	0,11	
·124	-124	·124	·124	-124	124	-124	·124	·124	·124	-124	·124	-124	-124
-1205	-1205	-1205	·1205	1205	·1205	1205	·116	1154	·1146	-1134	·1122	·1122	-112
·1165	-1155	-116	·116	-1172	-1147	-1165	·109	-1077	-1065	-1046	·103	·103 ·0946	·103
-113	1135	-114	-1128	·1133	-1114	-114	103	1015	-0997	-0997	-0956	-0946	-094
·110	110	·1105	1094	·1105	1084	·112 ·1095	-098	·096	-094 -0895	·092 ·0874	-090 -085	-0827	-080
-107	·108 ·1055	·1075 ·1045	106 103	-1092 -1085	·105 4 ·1023	·1095 ·107	-094 -090	-0917 -0875	-0895	-0825	-080	-0775	-073
·104 ·1005	-1035	1015	-0997	-1068	-0990	107	-086	-0873	-0805	-0778	-075	.0722	-067
-0985	-101	·101	-096	-1043	-0954	-1025	-082	-079	.076	-073	-070	-0668	-060
0965	-0985	-0995	-0927	·102	-0917	-100	-078	-0748	-0715	-0684	-065	-0615	-055
0945	0965	-0985	-090	·1006	-088	-099	-074	-0715	∙067	-0635	-060	-0563	-049
0915	-094	·0 9 75	-0875	-0995	-0858	-098	-070	-0662	-0625	∙0588	-055	-051	-044
-0885	-093	-096	-0860	-0985	-0836	-097	-066	-062	-058	·054	-050	·0457	-039
	-0915	-0945	-0845	-0975	-0813	-096	-062	-0577	-0535	-0493	-045	-0405	-034
-0855	-090	-093	-083	-0965	-079	-0945	-058	∙0535	-049	-0445	-040	-035	-029
-0830 -0805	-089	-0915	-0815	-0955	-0768	-093	-054	·0492	-0445	-0396	·035	-030	-025
υv	uw	υx	UY	UZ			VO UVO	VP UVP		VR UVR	VT UVT		ZA
·124	-124	·124	-124				·124	-124		-124	·125		-099
·1205	-1205	·124	1205	1205	1		121	-121	ł	119	121		-095
1182	-1175	·1165	1174	1172			-117	117	1	-1145	-116		-090
-1160	1146	-114	1145	-1135			113	113	1	-1108	-1115		-087
-1135	1117	112	·1128	1113	l		-110	·110	1	·1073	-107	l	-084
-1112	-1074	1095	1107	·1095			1075	-107	i	-1038	·103	i	-082
1095	-1023	·107	1086	·1084		ļ	105	104		·1004	-099		-080
-108	-0974	105	-107	·1066	l		-1022	·100	1	-097	-095	1	-077
-1065	∙092	·1025	-1056	·1048		i I	-0995	-0965	1	-0925	-091		-075
-1053	-0865	·100	-1046	·103		į I	097	-093	l	-088	-087		-073
-1047	-081	-099	-104	-102			-0935	-089		-0835	084		-071
-1042	-0755	-098	-1032	-101	l		-0895	-0855		-079	081	1	-067
-1036	-070	-0955	1025	-100			-0855	-082		-076	-0775		-063
1029	-064	-0931	-1018	-099			-082	-0782		·073	-0745	Ì	-058
-1029	-058	-091 -089	·101 ·1002	-098 -097	1	1	·078 ·074	-0745 -0707	1	-070 -067	·072 ·069	l	-054
-1029	-052												

	125 JET NEEDLES								
25 U25	35 U35	45 U45	50 U50	59 U59	60 U60	70 U70			
-124 -123 -116 -109 -100 -092 -084 -076 -067 -059 -051 -042 -034 -025	-124 -123 -116 -109 -100 -092 -085 -078 -071 -064 -057 -050 -042 -035	-124 -123 -116 -109 -101 -094 -089 -082 -076 -070 -064 -057 -051 -045	-124 -117 -111 -104 -099 -092 -086 -080 -073 -068 -062 -056 -050 -044 -038	-124 -116 -111 -106 -101 -096 -091 -087 -083 -079 -075 -071 -067 -063 -059	-124 -117 -111 -104 -099 -084 -0795 -070 -065 -060 -055	-125 -119 -113 -1085 -104 -0995 -0905 -086 -081 -077 -072 -068 -063 -059			
74 U74	75 U75	76 U76	78 U78	79 U79		01 U01			
-124 -117 -112 -108 -104 -100 -097 -094 -090 -087 -084 -081 -078 -074 -072	-125 -119 -113 -1087 -105 -1101 -097 -093 -089 -085 -081 -077 -073 -069 -065	-124 -117 -112 -109 -1055 -1022 -099 -0958 -0924 -0892 -086 -086 -078 -076 -074	·124 ·117 ·112 ·109 ·107 ·104 ·101 ·0978 ·094 ·091 ·088 ·085 ·082 ·080 ·078 ·076	-124 -1178 -1147 -1115 -1084 -1053 -1022 -0991 -096 -093 -090 -087 -084 -082 -080 -078		·124 ·123 ·1175 ·1115 ·1065 ·1015 ·097 ·092 ·087 ·092 ·0775 ·0725 ·0675 ·068 ·058			

NOTE: Numbered Series, 156" shank, "U" Series, 125 shank

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