

1154 SERVICE SHEET No. 603

"B" "C" and "M" Group Models

October 1966
Revised July 1967

THE LUBRICATION SYSTEM

The engine lubrication system is of the dry sump type operated by a double pump, situated in the bottom of the crankcase on the right-hand side. The pump draws the supply and return pipes to the tank and the rocker feed and drain pipes in the B Group. The oil drawn from the oil tank to the supply side of the pump first passes through a coarse mesh filter. This filter is not fitted to M Group machines as a jet filter is incorporated in the oil return pipe.



Fig. 302 The Lubrication System
Models 1154 and 1155

From the supply side of the pump the oil passes through a ball valve A, and is transferred to the side manifold. The big end roller bearings and M Models the transfer made via a needle fitted in the transfer cover which provides a seal and of

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CLASSIC BIKE PARTS

B.S.A. Service Sheet No. 603 (continued)

After lubricating the big end and circulating throughout the engine in the form of oil mist, the oil drains down, through a filter to the bottom of the crankcase from which it is drawn by the return pump past ball valve C and delivered up the return pipe to the tank.

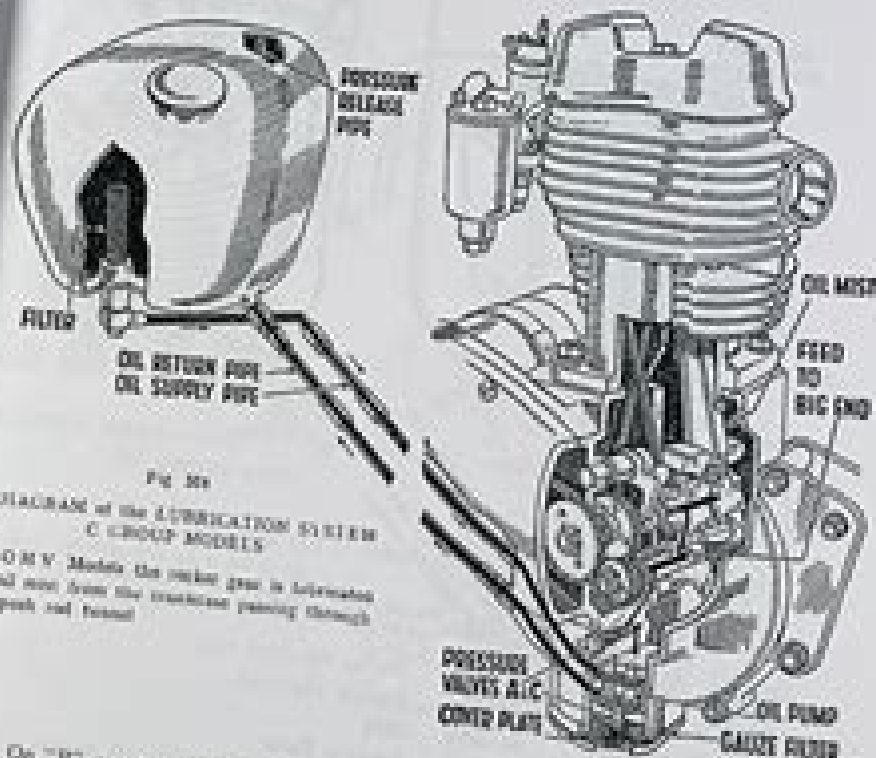


Fig. 303

DIAGRAM of the LUBRICATION SYSTEM
C GROUP MODELS

On C.M.V. Models the rocker gear is lubricated by oil mist from the crankcase passing through the push and transfer

On "B" group machines oil is fed through a union situated in the pipe between the return pump and the tank, to the rocker spindles, and after lubricating the rockers and enclosed valves, is returned to the crankcase through an external oil pipe attached to the base of the inlet valve spring housing (see Fig. 305). An internal oilway connects the two valve spring wells.

Incorrect seating of the ball valve A will allow oil to transfer from the tank to the engine, whilst the machine is stationary. In this event, uncover the plug over the ball valve C should get stuck in its seating. Clean the ball and its seating and correct, remove the

Maintenance Manual Bsa M21

JS Bruner



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Maintenance Manual and Instruction Book for Motorcycle Bsa M20 Bsa Limited, 2009 Complete Factory Handbook for the BSA Model B20 500 c c *WALNECK'S CLASSIC CYCLE TRADER, JUNE 2002* Causey Enterprises, LLC, BSA M20, M21 and M33 'Service Sheets' 1945-1963 for All Rigid, Spring Frame, Girder and Telescopic Fork Models Floyd Clymer, 2021-07-25 172 pgs more than 240 illustrations and charts size 8 25 x 10 75 In 1945 after the war had ended BSA resumed production of their civilian line of motorcycles However they continued their pre war practice of publishing repair overhaul and technical information in the form of individual Service Sheets These sheets were dealer only publications and as such the print quality was somewhat questionable It was not until the early 60 s that BSA eventually started publishing model specific workshop manuals that were available to the general public Consequently these Service Sheets were the only publications available for the maintenance and repair of BSA models from 1945 through the mid 60 s At some point in the 1930 s BSA began identifying their various model types by groups and the models manufactured from 1945 through the mid 60 s were in Groups A B C D and M The service sheets were identified numerically and while there are some exceptions the numbers relate to a particular model group They are as follows The 200 series of service sheets were applicable to Group A models the 300 series to Group B the 400 series to Group C the 500 series to Group D and the 600 series to Group M Also there was a 700 series applicable to mechanical maintenance and an 800 series for electronic service and wiring diagrams Both the 700 and 800 series of service sheets contained information that was not model specific but was applicable across multiple model groups Unfortunately as these service sheets were issued individually and at random times the numbering sequence within a group is at times illogical and not necessarily consecutive Consequently assembling those individual sheets into a publication that serves as a model specific workshop manual is a somewhat difficult task and owners of BSA motorcycles are subjected to considerable confusion surrounding the appropriate selection from the multitude of reprints that have recently flooded the on line marketplace Many of the reprints found on internet websites are from bedroom sellers at enticingly low prices by individuals that really have no idea what they are selling Many are nothing more than poor quality comb bound photocopies that are scanned and printed complete with greasy pages and thumbprints and are deceptively described as pre owned used or even refurbished In addition they are often advertised for the incorrect series and or model years of motorcycles The most complete compilation of the 1945 and onwards service sheets was a BSA dealer only ring binder that contained all of the individual service sheets totaling to almost 500 pages This manual contains 51 service sheets 169 pgs and includes 14 sheets 62 pgs from that dealer only publication plus the 37 service sheets 107 pgs that were published by BSA under part number 00 4021 It covers the S V and O H V rigid spring frame girder and telescoping fork M20 M21 and M33 models from 1945 63 Obviously as the M20 and M21 were introduced in 1937 this manual will also be of use to owners of those earlier models Please note that service sheets other than those in the 600 series that are included in this

publication may also contain data that is applicable to other model groups as that was the original intention For additional information the reader is directed to The Book of the BSA 250cc 350cc 500cc 600cc OHV SV singles 1945 1959 ISBN 9781588502292 which covers the B31 B32 B33 B34 C10 C11 C11DL M20 M21 M33 models The OHV 1955 1958 M33 models are also covered in The Book of the BSA OHV Singles 350cc 500cc 1955 1967 ISBN 9781588501561 **The Book of the BSA - An Owners Workshop Manual for Pre-War BSA Motorcycles** W. Haycraft,Floyd Clymer,2009-03 94 pages 54 illustrations size 5 5 x 8 5 inches An illustrated Owner s Workshop Manual covering Pre War BSA Single and Twin Cylinder SV and OHV Motorcycles This is a faithful reproduction of the Floyd Clymer W C Haycraft Book Of The BSA originally published in the US in 1947 Much more detailed than the owner s handbook this manual includes complete technical data service and maintenance information and detailed instructions for the repair and overhaul of the major mechanical and electrical components for the majority of the pre war BSA single and twin cylinder motorcycles However as this manual was written specifically for the motorcycles constructed between 1936 through 1939 the information may not be quite as comprehensive for the earlier versions of these models There is adequate detailed text and diagrams to assist in major refurbishing such as an engine rebuild or even a complete mechanical renovation making it an invaluable resource for collectors and restorers of these classic BSA motorcycles OHV and SV Models covered by this publication are 150c c X0 250c c B1 B2 B18 B20 B21 B22 C10 C11 350c c B23 B24 B25 B26 M19 R4 R5 R17 R19 R20 500c c J12 M20 M22 M23 M24 Q7 Q8 Q21 W6 600c c M10 M21 750c c Y13 1 000c c G14 *Forthcoming Books* Rose Army,1986 **SERVICE AND MAINTENANCE MANUAL FOR THE BSA BANTAM 1948-1966** W. C. HAYCRAFT,2009 [BSA C10-C10L-C11-C11g-C12 'Service Sheets' 1945-1958 for All Pre-Unit S.V. and O.H.V. Rigid, Spring Frame and Swing Arm Models](#) Floyd Clymer,2021-08-11 222 pages and more than 250 illustrations and charts size 8 25 x 10 75 inches In 1945 after the war had ended BSA resumed production of their civilian line of motorcycles However they continued their pre war practice of publishing repair overhaul and technical information in the form of individual Service Sheets These sheets were dealer only publications and as such the print quality was at times somewhat questionable It was not until the early 1960 s that BSA eventually started publishing model specific workshop manuals that were available to the general public Consequently these Service Sheets were the only publications available for the maintenance and repair of BSA models that were manufactured through the early 1960 s At some point in the 1930 s BSA adopted the practice of identifying their various model types by groups and the models manufactured from 1945 through the mid 1960 s were in Groups A B C D and M The service sheets that were associated to a particular group were identified numerically and while there were some exceptions due to overlapping data between models in general terms the numbers relate to a particular model group They are as follows The 200 series of service sheets were applicable to Group A models the 300 series to Group B the 400 series to Group C the 500 series to Group D and the 600 series to Group M In addition there were a 700 series applicable to mechanical maintenance

and an 800 series for electronic service and wiring diagrams Both the 700 and 800 series of service sheets contained information that was not model specific but was applicable across multiple model groups Unfortunately as these service sheets were issued individually and at random times the numbering sequence within any group is at times illogical and not necessarily consecutive Consequently assembling those individual sheets into a publication that serves as a model specific workshop manual is a somewhat difficult task and owners of BSA motor cycles are subjected to considerable confusion surrounding the appropriate selection from the multitude of reprints that have recently flooded the on line marketplace Many of the reprints found on internet websites are from bedroom sellers at enticingly low prices by individuals that really have no idea what they are selling Many are nothing more than poor quality comb bound photocopies that are scanned and printed complete with greasy pages and thumbprints and as such are deceptively described as pre owned used or even refurbished In addition they are often advertised for the incorrect series and or model years of motorcycles The most complete compilation of the 1945 and onwards service sheets was issued by BSA in the form of a dealer only ring binder that contained all of the individual service sheets totaling to almost 500 pages it is extremely scarce and difficult to find This manual contains 63 service sheets 210 pages extracted from that dealer only publication which cover the pre unit 1945 to 1958 rigid and spring frame C10 C10L C11 C11G and the 1956 to 1958 swing arm C12 Obviously as the C10 was introduced in 1938 this manual will also be of use to owners of those earlier models Please note that service sheets other than those in the 400 series that are included in this publication may also contain data that is applicable to other model groups as that was the original intention For additional information the reader is directed to The Book of the BSA 250cc 350cc 500cc 600cc OHV SV singles 1945 to 1959 ISBN 9781588502292 which covers the B31 B32 B33 B34 C10 C11 C11DL M20 M21 M33 models

BSA Unit Singles Owners Workshop Manual, No. 127 John Haynes, 1990-06-29 Haynes disassembles every subject vehicle and documents every step with thorough instructions and clear photos Haynes repair manuals are used by the pros but written for the do it yourselfer Operator's and Organizational Maintenance Manual (including Repair Parts and Special Tools List) ,1990 **Operator and Organizational Maintenance Manual** ,1973 Operator's and Organizational Maintenance Manual (including Repair Parts and Special Tools List) ,1990 Maintenance Manual National Ready Mixed Concrete Association. Committee on Equipment Maintenance, 1979 *Operator and Organizational Maintenance Manual* ,1990 Operator's, Organizational, and Direct Support Maintenance Manual (including Repair Parts and Special Tools List) ,1982 *Direct Support, General Support, and Depot Maintenance Manual (including Repair Parts)* ,1992 **Operator's Organizational, Direct Support, and General Support Maintenance Manual Including Repair Parts and Special Tools List (including Depot Maintenance Repair Parts and Special Tools): Scheduled maintenance** ,1986

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Parts Information and Supplemental Operating, Maintenance, and Repair Parts Instructions for Forklift Truck, GED, SRT, 4,000 Lb. Cap, 144 Inch Lift Height, Model ACC 45 PS, MHE 239, NSN 3930-01-074-4937 ,1990

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