

TRIUMPH

tiger cub

TIGER CUB SPORTS MODELS

REPLACEMENT PARTS

CATALOGUE No. I

TIGER CUB
'A' RANGE MODELS
T20SM
T20SH

from Engine No. 101

September 1965

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TRIUMPH ENGINEERING COMPANY LIMITED
MERIDEN WORKS · ALLESLEY · COVENTRY · ENGLAND
TELEPHONE MERIDEN 331 TELEGRAMS "TRUSTY, COVENTRY"

REF. No. 990/66

PUBLISHED JUNE 1966

HOW TO USE THIS PARTS CATALOGUE

First check that the engine number of your machine is subsequent to that quoted on the title page.

Next consult the indices on Pages 5 and 6 for the parts or group of parts which you wish to locate. When you have located the parts on the illustration check the reference number on the facing page and make sure from the end columns that the part you have located does apply to your machine.

List the quantities required as single units; do not ask for "2 pairs" or "3 dozen".

In case of painted items always state the colour required. Painted parts are available only in the colours or alternatives specified for that model of that particular year.

| <i>Colour</i> | <i>Suffix letter to Part No.</i> |
|---------------|----------------------------------|
| Black | W. |
| Grenadier Red | GR. |
| Alaskan White | AW |

Paint is available also in all colours in $9\frac{3}{4}$ oz. Aerosol cans or 1 gallon tins.

TRIUMPH GUARANTEE

1. In this Guarantee the word "machine" refers to the motor cycle, scooter, motor cycle combination or sidecar as the case may be, purchased by the Purchaser.
2. In order to obtain the benefit of this Guarantee, the Purchaser must have correctly completed the registration form and returned it to us within fourteen days of the purchase.
3. We will supply, free of charge, a new part in exchange for, or, if we consider repair sufficient, will repair free of charge any part proved within six months of the date of purchase of any new machine, (three months overseas) or within three months of its renewal or repair in the case of a part already renewed or repaired, to be defective by reason of our faulty workmanship or materials. We do not undertake to bear the cost of fitting such new or repaired part or accessory.
4. Any part considered to be defective must be sent to our Works, carriage paid, accompanied by the following information:—
 - (a) Name of purchaser and his address;
 - (b) Date of purchase of machine;
 - (c) Name of dealer from whom the purchase was made;
 - (d) Engine number and model.
5. This Guarantee shall not extend to defects or damage appearing after misuse, neglect, abnormal stress or strain, or the incorporation or affixing of unsuitable attachments or parts and in particular:—
 - (a) Hiring out;
 - (b) Racing and Competitions;
 - (c) Adaptation or alteration of any part or parts after leaving our Works;
 - (d) The attaching of a sidecar in a manner not approved by us or to an unsuitable motor cycle.

This Guarantee shall not extend to machines whose trade mark, name or manufacturing number has been altered or removed, or in which has been used any part not supplied or approved by us, or to tyres, saddles, chains, speedometers, revolution counters and electrical equipment or to parts supplied to the order of the Purchaser and different from our standard specification.
6. Our liability and that of our dealer who sells the machine, shall be limited to that set out in this guarantee, and no other claims including claims for consequential damage or injury to person or property, shall be admissible. All other conditions and warranties statutory or otherwise and whether express or implied are hereby excluded and no guarantee other than that expressly herein contained applies to the machine to which this Guarantee relates or any accessory or part thereof.
7. We reserve the right to modify or deviate from the Published Specification without notice.

REPAIRS GUARANTEE

1. Whilst the highest standard of workmanship and materials is aimed at, we cannot accept liability for any defects appearing more than three months after the machine, assembly or component has left our Works after being repaired.
2. We will repair or replace at our option free of charge any defective work, materials or parts relating to the repairs carried out by us appearing within that time but shall not be under any further or other liability for any other loss or damage whether direct or consequential and our liability shall be limited to the cost of so making good. We do not undertake to bear the cost of fitting any replacement or repaired part.
3. We do not accept liability in respect of parts of proprietary manufacture, e.g. tyres, saddles, chains, speedometers, revolution counters and electrical equipment which may be used by us in effecting a repair. All other conditions and warranties statutory or otherwise express or implied are hereby excluded.

TRIUMPH SPARES

HOW TO ORDER. Every part is indicated by number, and this should be quoted together with the description. In order to assist customers, dimensions have been given in many cases where parts are similar. Parts where possible have been listed in order of assembly and a number of the illustrations show the assembly order also. With these aids there should be no difficulty in identifying the parts you require. **Always head your order with the engine number, stamped on the front engine lug, together with the prefix letters.**

WHERE TO OBTAIN. Triumph Spare Parts can only be obtained from an authorised Triumph Dealer, and we recommend our customers to place their orders with the Triumph Dealer in their district. When parts not usually asked for are required, and for which the Dealer may have to write or obtain specially, the postage or carriage incurred becomes payable.

Triumph Spares are not supplied to private owners direct from the factory. A list of authorised dealers who stock Triumph spares is published overleaf. If difficulty is experienced in obtaining the required parts, the matter should be taken up directly with the Triumph Spares Department.

Customers are warned against the risk incurred by purchasing parts that are not of genuine Triumph manufacture. This risk is eliminated if parts are ordered as instructed from recognised Dealers.

PATTERNS AND PARTS FOR REPAIR. It is not necessary to send patterns if the part number is quoted. The sending of patterns often delays the order as parcel post or rail takes longer than letter post.

Parts sent to Coventry for repair, replacement, or as patterns should bear the sender's name and address and clear instructions should accompany the parts. In your own interest send a copy of the advice note under separate cover. All parts must be forwarded carriage paid and care should be taken to ensure that all remittances are sent separately and not enclosed with the parts. Fragile units such as cylinders, etc., should always be boxed to avoid damage in transit. Complete machines should have all fitments such as windscreens, driving mirrors, tools, etc., removed by the sender before despatch, as it is impossible for us to accept responsibility in the event of loss in transit. We are always pleased to give estimates for overhauling and repairs, but should an estimate not be accepted, a charge will be made covering cost of dismantling and re-assembling, if carried out.

Communications relating to Parts should be addressed to the SPARES DEPARTMENT and for repairs, guarantee claims and technical advice to the SERVICE DEPARTMENT, Triumph Engineering Co. Ltd., Meriden Works, Allesley, Coventry. In order to facilitate quick reference, the quoting of any number, invoice number or reference from previous communications is essential. Accessories not of our manufacture should be sent direct to the actual makers, whose names and addresses appear below.

PROPRIETARY GROUP

Ancillary equipment which is fitted to our motor cycles is of the highest quality and is guaranteed by the manufacturers and not by ourselves. Any repairs or claims should be directed to the actual makers or their local agents who will always give owners every possible assistance. The following are the addresses of the various manufacturers:—

CARBURETTERS.

Messrs. Amal Ltd.,
Holdford Road, Witton, Birmingham, 6.

CHAINS.

Renold Chains Ltd.,
Wythenshawe, Manchester.

ELECTRICAL EQUIPMENT.

Messrs. J. Lucas Ltd.,
Gt. Hampton Street, Birmingham, 18.

TYRES.

Dunlop Rubber Co. Ltd.,
Fort Dunlop,
Birmingham, 24.
The Avon India Rubber Co. Ltd.,
Melksham,
Wiltshire.

SPARKING PLUGS.

Champion Sparking Plug Co. Ltd.,
Feltham, Middlesex.


SPEEDOMETERS.

Messrs. Smiths Motor Accessories Ltd.,
Cricklewood Works, London, N.W.2.

SUSPENSION UNITS.

Messrs. Girling Ltd.,
Birmingham Road, West Bromwich, Staffs.

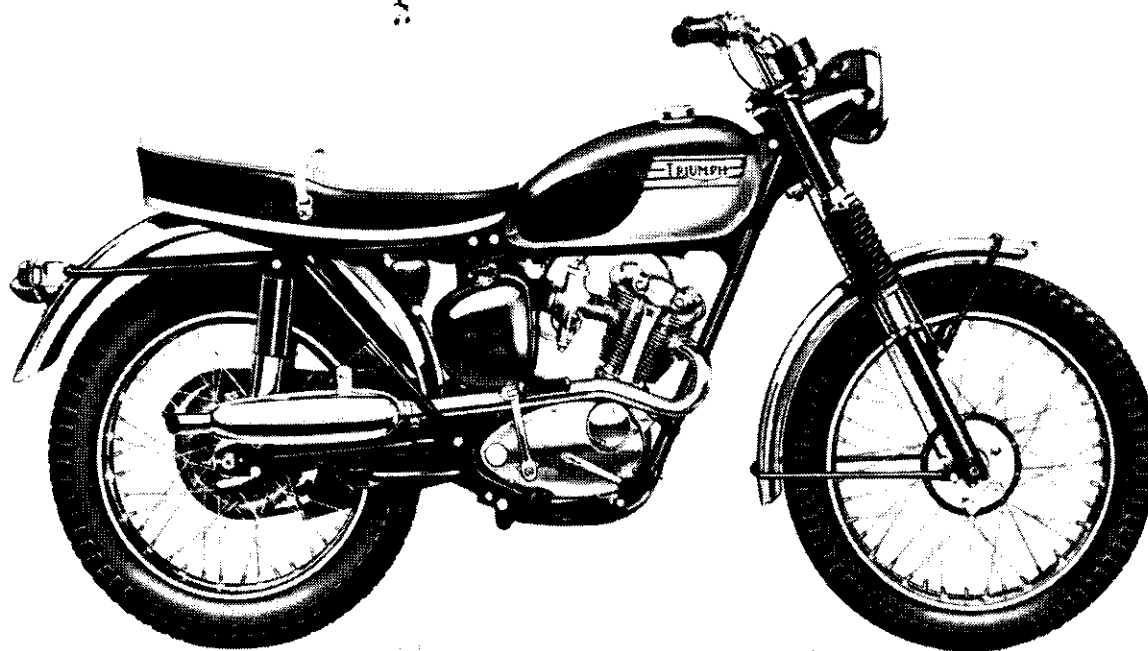
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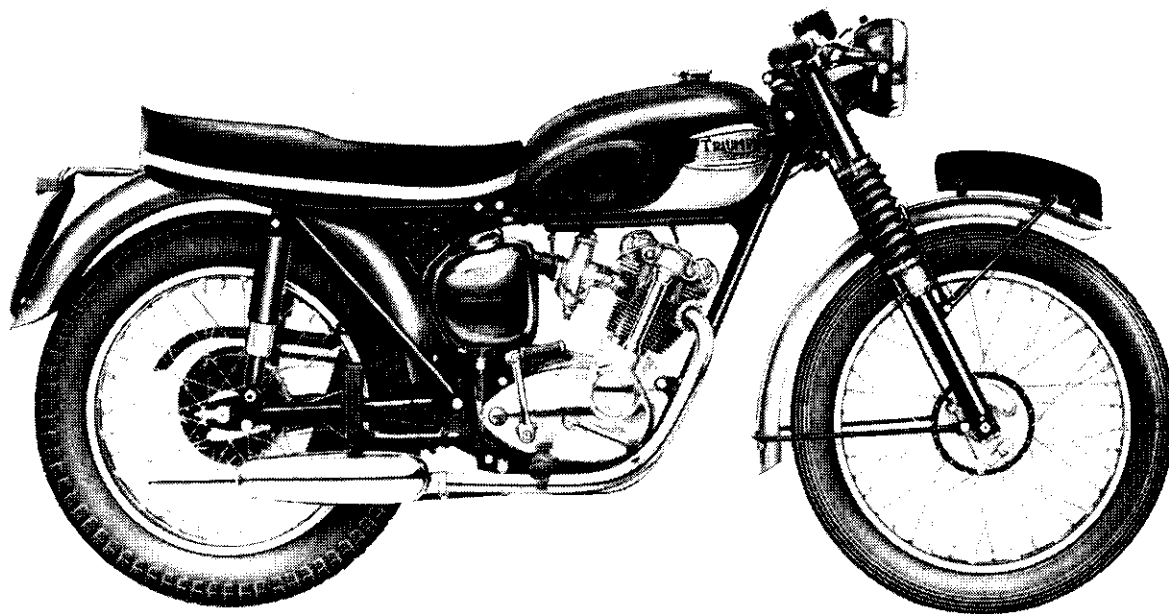
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TIGER CUB (T20SM) TECHNICAL DATA

| | | |
|----------------------|-------------------------|--|
| Bore and Stroke | | 63 x 64 mm. 2.480 x 2.520 ins. |
| Capacity | | 199 c.c. (12 cu. ins.) |
| Compression Ratio | | 7 : 1 |
| Sparkling Plug | Champion L7 | |
| Carburetter | | Amal Monobloc |
| | Choke Size | $\frac{1}{8}$ in. |
| | Main Jet | 140 |
| | Needle Jet | .105 |
| | Needle | Type C |
| | Throttle Valve | $376/2\frac{1}{2}$ |
| | Pilot Jet | 15 |
| Gearbox Sprocket | | 17 teeth |
| Final Drive Sprocket | | 54 teeth |
| Chains | Front | $\frac{3}{8}$ in. x $\frac{7}{32}$ in. Duplex x 62 links |
| | Rear | $\frac{1}{2}$ in. x $\frac{3}{16}$ in. x 117 links |
| Capacities | Fuel Tank | $2\frac{3}{8}$ galls. (11.9 litres) |
| | Oil Tank | $2\frac{3}{4}$ pints (1.55 litres) |
| | Gearbox | $\frac{1}{4}$ pint (190 c.c.) |
| | Primary Chaincase | $\frac{1}{4}$ pint (190 c.c.) |
| | Front Forks (each leg) | $\frac{1}{8}$ pint (190 c.c.) |
| Brakes | Front and Rear Diameter | $5\frac{1}{2}$ in. (13.97 cm.) |
| Tyre Size | Front | 3.00 x 19 |
| | Rear | 3.50 x 18 |



TIGER CUB (T20SH) TECHNICAL DATA

| | | |
|----------------------|-------------------------|--|
| Bore and Stroke | | 63 x 64 mm. 2.480 x 2.520 ins. |
| Capacity | | 199 c.c. (12 cu. ins.) |
| Compression Ratio | | 9 : 1 |
| Sparking Plug | Champion L7 | |
| Carburettor | | Amal Monobloc |
| | Choke Size | $\frac{1}{16}$ in. |
| | Main Jet | 140 |
| | Needle Jet | 106 |
| | Needle | Type C |
| | Throttle Valve | 376/3 |
| | Pilot Jet | 20 |
| Gearbox Sprocket | | 17 teeth |
| Final Drive Sprocket | | 48 teeth |
| Chains | Front | $\frac{3}{8}$ in. x $\frac{7}{32}$ in. Duplex x 62 links |
| | Rear | $\frac{1}{2}$ in. x $\frac{3}{16}$ in. x 113 links |
| Capacities | Fuel Tank | 3 galls. (13.5 litres) |
| | Oil Tank | 2 $\frac{3}{4}$ pints (1.55 litres) |
| | Gearbox | $\frac{1}{3}$ pint (190 c.c.) |
| | Primary Chaincase | $\frac{1}{3}$ pint (190 c.c.) |
| | Front Forks (each leg) | $\frac{1}{3}$ pint (190 c.c.) |
| Brakes | Front and Rear Diameter | 5 $\frac{1}{2}$ in. (13.97 cm.) |
| Tyre Size | Front | 3.00 x 19 |
| | Rear | 3.50 x 18 |

CARTON PACK LIST

The following sub-assemblies are supplied in carton packs under the C.P. part number stated. The contents of these carton packs are preserved and will not deteriorate under adverse conditions.

| Part No. | | | Contents |
|-----------------------------|----|-------|--------------------------|
| Big End Assembly | | | |
| C.P. 197 | 1 | E6487 | Connecting rod |
| | 1 | E5802 | Crankpin |
| Brake Linings | | | |
| C.P. 128 | 2 | W978 | Brake linings |
| | 14 | W979 | Rivets |
| Piston (T20SM) | | | |
| C.P. 141 | 1 | E3358 | Piston, C.R. 7 : 1 |
| | 1 | E656 | Compression ring (plain) |
| | 1 | E3048 | Compression ring (taper) |
| | 1 | E3387 | Oil control ring |
| | 1 | E1750 | Gudgeon pin |
| | 2 | E1767 | Circlip |
| Piston Rings (T20SM) | | | |
| C.P. 150 | 1 | E656 | Compression ring (plain) |
| | 1 | E3048 | Compression ring (taper) |
| | 1 | E3387 | Oil control ring |
| Piston (T20SH) | | | |
| C.P. 172 | 1 | E3958 | Piston, C.R. 9 : 1 |
| | 1 | E3959 | Compression ring (plain) |
| | 1 | E3960 | Compression ring (taper) |
| | 1 | E3961 | Oil control ring |
| | 1 | E1750 | Gudgeon pin |
| | 2 | E1767 | Circlip |
| Piston Rings (T20SH) | | | |
| C.P. 178 | 1 | E3959 | Compression ring (plain) |
| | 1 | E3960 | Compression ring (taper) |
| | 1 | E3961 | Oil control ring |
| Valve Guides | | | |
| C.P. 122 | 2 | E3208 | Valve guide |
| | 2 | E3209 | Circlip |
| Valves | | | |
| C.P. 186 | 1 | E3963 | Inlet valve |
| | 1 | E3147 | Exhaust valve |

CARTON PACK LIST — continued

| <i>Part No.</i> | | | <i>Contents</i> |
|---------------------------|------|--------|---------------------------------------|
| <hr/> | | | |
| Valve Springs | | | |
| C.P. 185 | 2 | E5975 | Inner valve spring |
| | 2 | E3966 | Outer valve spring |
| Steering Races | | | |
| C.P. 129 | 2 | H835 | Cup |
| | 2 | H833 | Cone |
| | 30 | S70-3 | Steel ball ($\frac{1}{4}$ in. diam.) |
| <hr/> | | | |
| Gasket Set | GS | T20/59 | All models |
| De-Coke Gasket Set | D/GS | 3 | All models |

ALTERNATIVE SPROCKETS

| Gearbox | | | Rear Wheel | |
|----------------|----|-------|-------------------|----------|
| T1555/13 | 13 | teeth | W1320 | 46 teeth |
| T1555/14 | 14 | teeth | W984 | 48 teeth |
| T1555/15 | 15 | teeth | W1074 | 50 teeth |
| T1513/16 | 16 | teeth | W1075 | 52 teeth |
| T1513/17 | 17 | teeth | W1076 | 54 teeth |
| T1513/18 | 18 | teeth | W1078 | 58 teeth |
| T1568 | 19 | teeth | | |

WORKSHOP TOOLS

| | |
|-------|--|
| Z 135 | Distributor Gear Extractor |
| Z 139 | Timing Pinion Extractor |
| D 485 | Contact Breaker Extractor |
| D 486 | Contact Breaker Reassembly Pilot |
| D 400 | Clutch Extractor |
| D 538 | Flywheel Tool |
| D 220 | Fork Spanner |
| D 526 | Crankshaft bearing extractor tool |
| D 527 | Fork Spanner (for dust excluder sleeve nuts) |

PLEASE NOTE

THROUGHOUT THIS LIST, ASSEMBLIES ARE PRINTED IN CAPITALS AND THE COMPONENTS INCLUDED IN THAT ASSEMBLY ARE INDENTED IN THE DESCRIPTION COLUMN, REVERTING TO THE ORIGINAL ALIGNMENT WHEN THE ASSEMBLY IS COMPLETE. TO ORDER THE COMPLETE ASSEMBLY IT IS NECESSARY ONLY TO QUOTE THE ASSEMBLY NUMBER. ANY COMPONENT PARTS LISTED MAY ALSO BE OBTAINED SEPARATELY, IF REQUIRED.

SPECIAL WORKSHOP TOOLS

A COMPLETE LIST OF WORKSHOP TOOLS CAN BE MADE AVAILABLE BY EITHER CONTACTING YOUR DEALER OR APPLYING DIRECT TO THE TRIUMPH SERVICE DEPARTMENT. IN MOST CASES THESE TOOLS ARE VERY COSTLY AS THEY ARE MADE ENTIRELY FOR WORKSHOP USE, AND THEREFORE, IT IS NOT RECOMMENDED THAT THE PRIVATE OWNER PURCHASE THE TOOLS IN ORDER TO AID SERVICING THE MACHINE ONCE OR TWICE ONLY. IN THESE CIRCUMSTANCES IT IS FAR MORE ECONOMICAL TO GET IN TOUCH WITH A RECOGNISED DEALER.

CRANKSHAFT ASSY. REF. N° 1

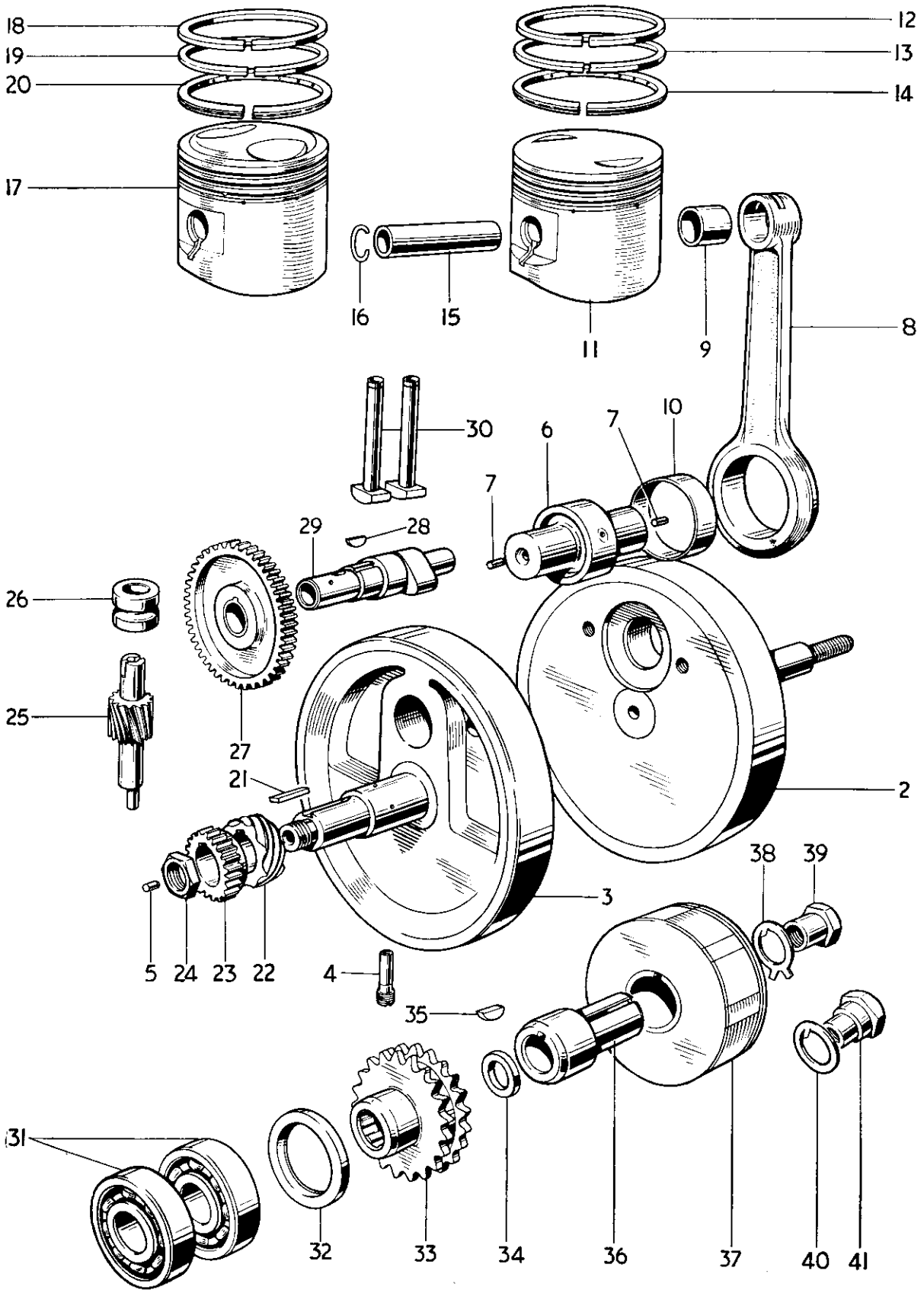


Fig. 1. CRANKSHAFT, PISTON AND TIMING GEARS

CRANKSHAFT, PISTON AND TIMING GEARS

| | | | | | | | | | | T20SM | T20SH |
|----|----------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 1 | E6489 | CRANKSHAFT ASSEMBLY | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 2 | E4436 | Left flywheel ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 3 | E5893 | RIGHT FLYWHEEL | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 4 | E5806 | Screwed plug | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 5 | E3902 | Oilway plug | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 6 | E5802 | CRANKPIN | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 7 | E3292 | Oilway plug | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 8 | E6487 | Connecting rod | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 9 | E1762 | Small end bush | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 10 | E6488 | Big end bush (Export only) | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 11 | CP141 | PISTON COMPLETE, C.R. 7 : 1 | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 12 | E656 | Compression ring | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 13 | E3048 | Taper compression ring | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 14 | E3387 | Oil control ring | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 15 | E1750 | Gudgeon pin | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 16 | E1767 | Circlip | ... | ... | ... | ... | ... | ... | ... | 2 | - |
| 17 | CP172 | PISTON COMPLETE, C.R. 9 : 1 | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 18 | E3959 | Compression ring | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 19 | E3960 | Taper compression ring | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 20 | E3961 | Oil control ring... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 15 | E1750 | Gudgeon pin | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 16 | E1767 | Circlip | ... | ... | ... | ... | ... | ... | ... | - | 2 |
| 21 | E4453 | Key | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 22 | E5260 | Distributor drive gear | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 23 | E4451 | Timing pinion | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 24 | F2725 | Nut | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 25 | E5913 | Oil pump drive shaft | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 26 | E4693 | Oil pump shaft bush... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 27 | E3185 | Camshaft pinion | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 28 | E3184 | Camshaft key | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 29 | E6608 | Camshaft | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 30 | E3285 | Tappet... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 31 | E3152 | Main bearing | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 32 | E3379 | Oil seal | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 33 | E3912 | Engine sprocket (19 teeth Duplex) | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 34 | E4458 | Spacing washer | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 35 | E4455 | Key | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 36 | E4454 | Adaptor sleeve | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 37 | 54213903 | Rotor, RM18 | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 37 | 54213901 | Rotor, RM19 | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 38 | E4058 | Tab washer | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 39 | E3971 | Nut | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 40 | E3975 | Tab washer | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 41 | E4503 | Nut | ... | ... | ... | ... | ... | ... | ... | 1 | - |

| Ref. No. | Part No. | DESCRIPTION | QUANTITY | |
|------------------|------------|---|----------|-------|
| | | | T20SM | T20SH |
| CRANKCASE | | | | |
| 1 | E4087/5908 | CRANKCASE | 1 | 1 |
| 2 | E3171 | Oil junction block stud | 1 | 1 |
| 3 | E3169 | Oil junction block dowel | 1 | 1 |
| 4 | E4121 | Hollow dowel | 1 | 1 |
| 5 | T1553 | Screwed plug ($\frac{3}{8}$ in. U.H.) | 1 | 1 |
| 6 | E2441 | Copper washer | 1 | 1 |
| 7 | E2615 | Screwed plug | 1 | 1 |
| 8 | E1335 | Copper washer | 1 | 1 |
| 9 | E3175 | Camshaft bush | 1 | 1 |
| 10 | E5456 | Crankshaft filter | 1 | 1 |
| 11 | E2570 | Fibre washer | 1 | 1 |
| 12 | E4098 | Bolt ($1\frac{7}{8}$ in. U.H.) | 9 | 9 |
| 13 | S25-3 | Plain washer | 9 | 9 |
| 14 | E4089 | Left outer cover | 1 | 1 |
| 15 | T989 | Hollow dowel | 4 | 4 |
| 16 | E4871 | Joint washer | 1 | 1 |
| 17 | E3204 | Screw (1 in. U.H.) | 7 | 7 |
| 18 | E4096 | Screw ($2\frac{3}{16}$ in. U.H.) | 4 | 4 |
| 19 | E732 | Filler plug | 1 | 1 |
| 20 | NE507 | Fibre washer | 1 | 1 |
| 21 | E4787 | RIGHT INNER COVER | 1 | 1 |
| 22 | E4666 | Camshaft bush | 1 | 1 |
| 23 | E3172 | Peg | 1 | 1 |
| 24 | T1147 | Mainshaft bush | 1 | 1 |
| 25 | F3775 | Breather pipe | 1 | 1 |
| 26 | E3220 | Screw ($1\frac{3}{8}$ in. U.H.) | 4 | 4 |
| 27 | E3221 | Screw ($1\frac{7}{8}$ in. U.H.) | 2 | 2 |
| 28 | E4637 | Right outer cover | 1 | 1 |
| 29 | E4872 | Joint washer | 1 | 1 |
| 30 | E3231 | Screw ($1\frac{3}{8}$ in. U.H.) | 7 | 7 |
| 31 | T1599 | Filler plug | 1 | 1 |
| 32 | E1465 | Fibre washer | 1 | 1 |
| 33 | E4048 | Blanking plug | 1 | 1 |
| 34 | T1112 | Drain plug (with level tube) | 1 | 1 |
| 35 | T1257 | Fibre washer | 1 | 1 |
| 36 | T361 | Level plug | 1 | 1 |
| 37 | WE170 | Fibre washer | 3 | 3 |
| 38 | DS57 | Screwed plug | 2 | 2 |
| 39 | E4587 | Blanking plug | 1 | 1 |
| 40 | E4593 | Fibre washer | 1 | 1 |
| 41 | E4172 | Hollow dowel | 2 | 2 |
| 42 | E4638 | Outer cover screw ($\frac{5}{8}$ in. U.H.) | 2 | 2 |
| 43 | H1466 | Clutch cable access grommet | 1 | 1 |
| 44 | E4568 | Oil seal | 1 | 1 |

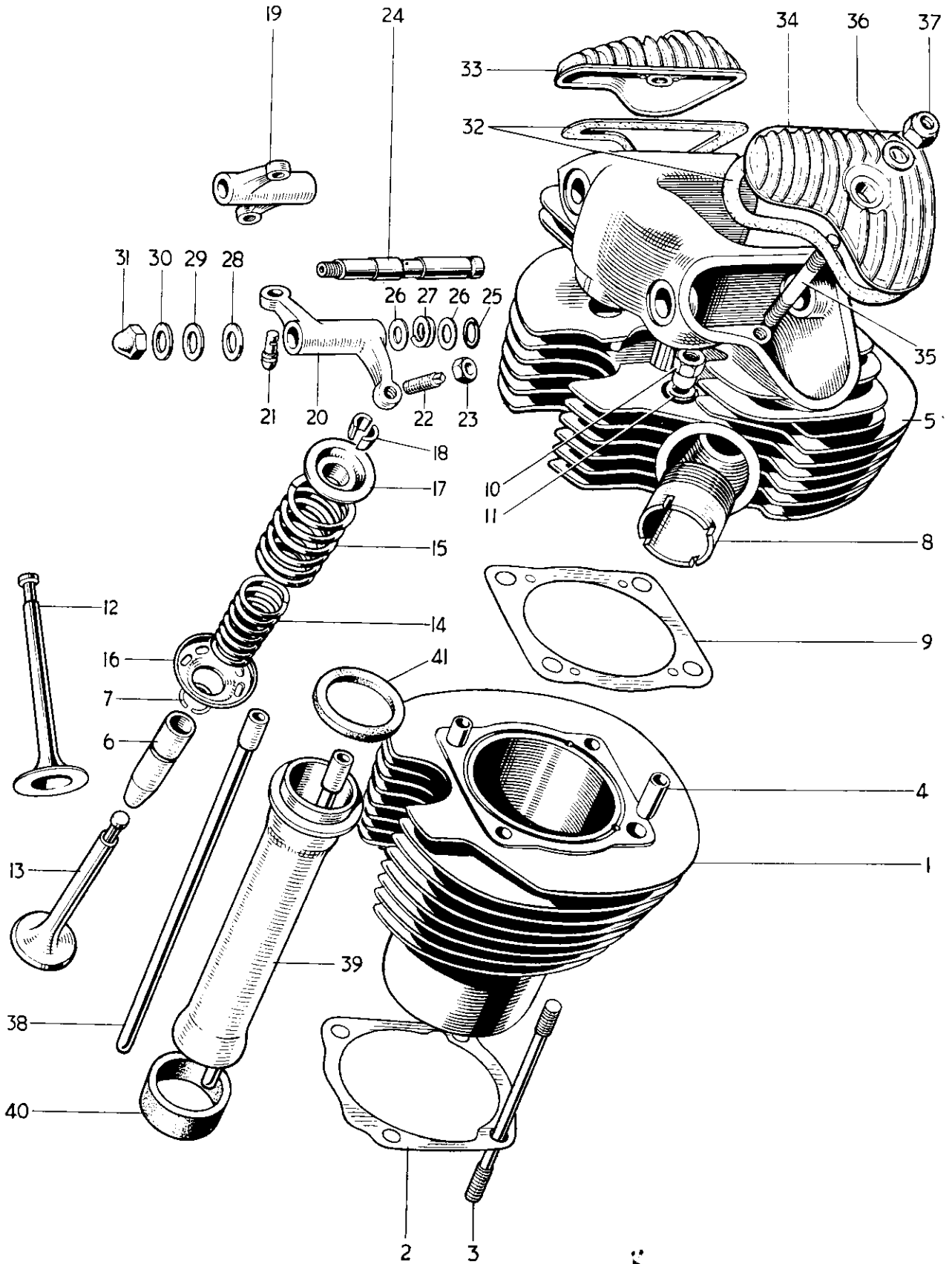
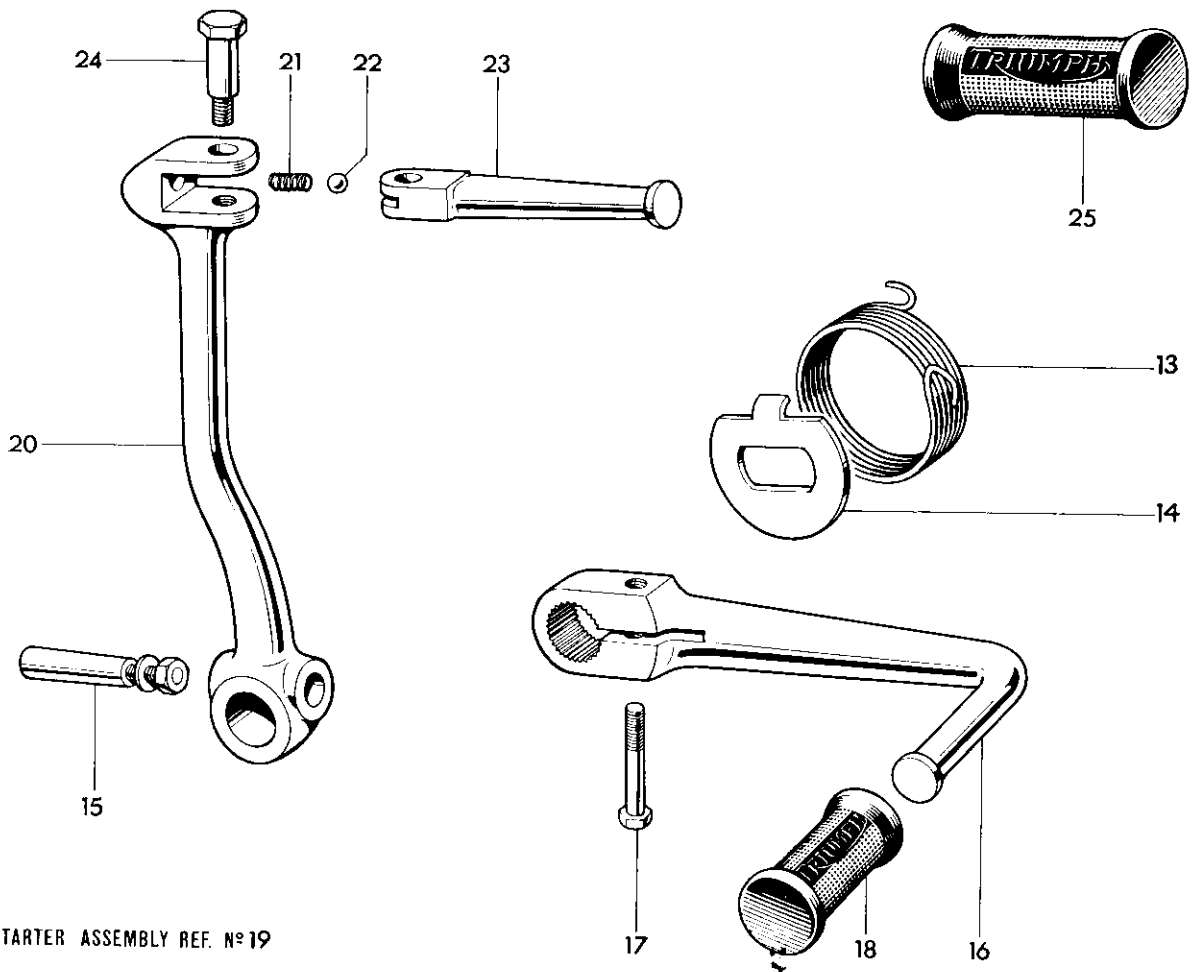
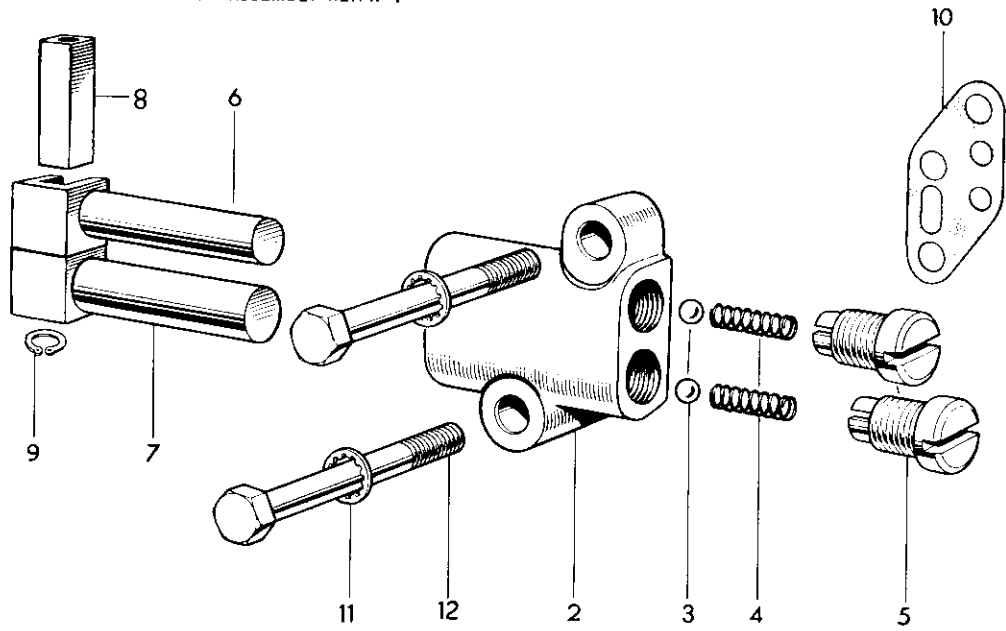


Fig. 3. CYLINDER BARREL AND HEAD

CYLINDER BARREL AND HEAD

| | | | T20SM | T20SH |
|----|--------|---|-------|-------|
| 1 | E6094 | Cylinder Barrel | 1 | 1 |
| 2 | E4037 | Cylinder base washer | 1 | 1 |
| 3 | E3170 | Crankcase to cylinder head stud (4 $\frac{1}{2}$ in. O.A.) | 4 | 4 |
| 4 | E3386 | Cylinder head dowel | 2 | 2 |
| 5 | E6093A | CYLINDER HEAD C/W GUIDES | 1 | 1 |
| 6 | E3208 | Valve guide | 2 | 2 |
| 7 | E3209 | Valve guide circlip | 2 | 2 |
| 8 | E3207 | Exhaust pipe adaptor | 1 | 1 |
| 9 | E3217 | Cylinder head gasket | 1 | 1 |
| 10 | E5897 | Nut | 4 | 4 |
| 11 | E3446 | Plain washer | 4 | 4 |
| 12 | E3963 | Inlet valve | 1 | 1 |
| 13 | E3147 | Exhaust valve... .. | 1 | 1 |
| 14 | E5975 | Inner valve spring | 2 | 2 |
| 15 | E3966 | Outer valve spring (red) | 2 | 2 |
| 16 | E5974 | Bottom cup | 2 | 2 |
| 17 | E3301 | Top collar | 2 | 2 |
| 18 | WE259A | Split cotter | 4 | 4 |
| 19 | E3251 | INLET ROCKER | 1 | 1 |
| 20 | E3252 | EXHAUST ROCKER | 1 | 1 |
| 21 | E3222 | Rocker ball pin | 2 | 2 |
| 22 | E3223 | Adjuster pin | 2 | 2 |
| 23 | GS662 | Nut | 2 | 2 |
| 24 | E3225 | Rocker spindle | 2 | 2 |
| 25 | E3253 | Sealing ring | 2 | 2 |
| 26 | E2534 | Thrust washer $\frac{7}{16}$ in. | 4 | 4 |
| 27 | E3224 | Thackeray washer | 2 | 2 |
| 28 | E2594 | Thrust washer $\frac{3}{8}$ in. | 2 | 2 |
| 29 | E1335 | Copper washer $\frac{3}{8}$ in. | 2 | 2 |
| 30 | E3249 | Copper washer $\frac{5}{16}$ in. | 2 | 2 |
| 31 | H400 | Domed nut | 2 | 2 |
| 32 | E3226 | Joint washer | 2 | 2 |
| 33 | E4648 | Inlet rocker cover | 1 | 1 |
| 34 | E4649 | Exhaust rocker cover | 1 | 1 |
| 35 | E3210 | Stud (2 $\frac{5}{32}$ in. O.A.) | 2 | 2 |
| 36 | E2441 | Copper washer | 2 | 2 |
| 37 | E3290 | Self-locking nut | 2 | 2 |
| 38 | E3372 | Push rod | 2 | 2 |
| 39 | E3537 | Cover tube | 1 | 1 |
| 40 | E3391 | Lower joint washer | 1 | 1 |
| 41 | E3540 | Upper joint washer | 1 | 1 |

OIL PUMP ASSEMBLY REF. N° 1



KICKSTARTER ASSEMBLY REF. N° 19

Fig. 4. OIL PUMP AND CONTROL PEDALS

OIL PUMP AND CONTROL PEDALS

| | | | T20SM | T20SH |
|----|-------|---|-------|-------|
| 1 | E6486 | OIL PUMP ASSEMBLY | 1 | 1 |
| 2 | E5909 | Pump body | 1 | 1 |
| 3 | S70-4 | Steel ball ($\frac{3}{16}$ in. diam.) | 2 | 2 |
| 4 | E4404 | Spring | 2 | 2 |
| 5 | E4212 | Plug | 2 | 2 |
| 6 | E5910 | Feed plunger | 2 | 2 |
| 7 | E5911 | Scavenge plunger | 1 | 1 |
| 8 | E5912 | Drive block | 1 | 1 |
| 9 | E6474 | Circlip... .. | 1 | 1 |
| 10 | E3188 | Joint washer | 1 | 1 |
| 11 | GS299 | Serrated washer | 2 | 2 |
| 12 | E3197 | Bolt ($\frac{1}{8}$ in. U.H.) | 2 | 2 |
| 13 | T1162 | Kickstarter return spring | 1 | 1 |
| 14 | T1163 | Return spring plate | 1 | 1 |
| 15 | T1222 | Cotter pin c/w nut and washer | 1 | 1 |
| 16 | T1164 | Gearchange pedal | 1 | 1 |
| 17 | F1369 | Bolt ($\frac{5}{8}$ in. U.H.) | 1 | 1 |
| 18 | T449 | Pedal rubber | 1 | 1 |
| 19 | T1679 | KICKSTARTER ASSEMBLY | 1 | 1 |
| 20 | T1680 | Crank | 1 | 1 |
| 21 | T1167 | Spring | 1 | 1 |
| 22 | S70-3 | Steel ball ($\frac{1}{4}$ in. diam.) | 1 | 1 |
| 23 | T2070 | Pedal | 1 | 1 |
| 24 | T1169 | Pivot bolt | 1 | 1 |
| 25 | F1814 | Pedal rubber | 1 | 1 |

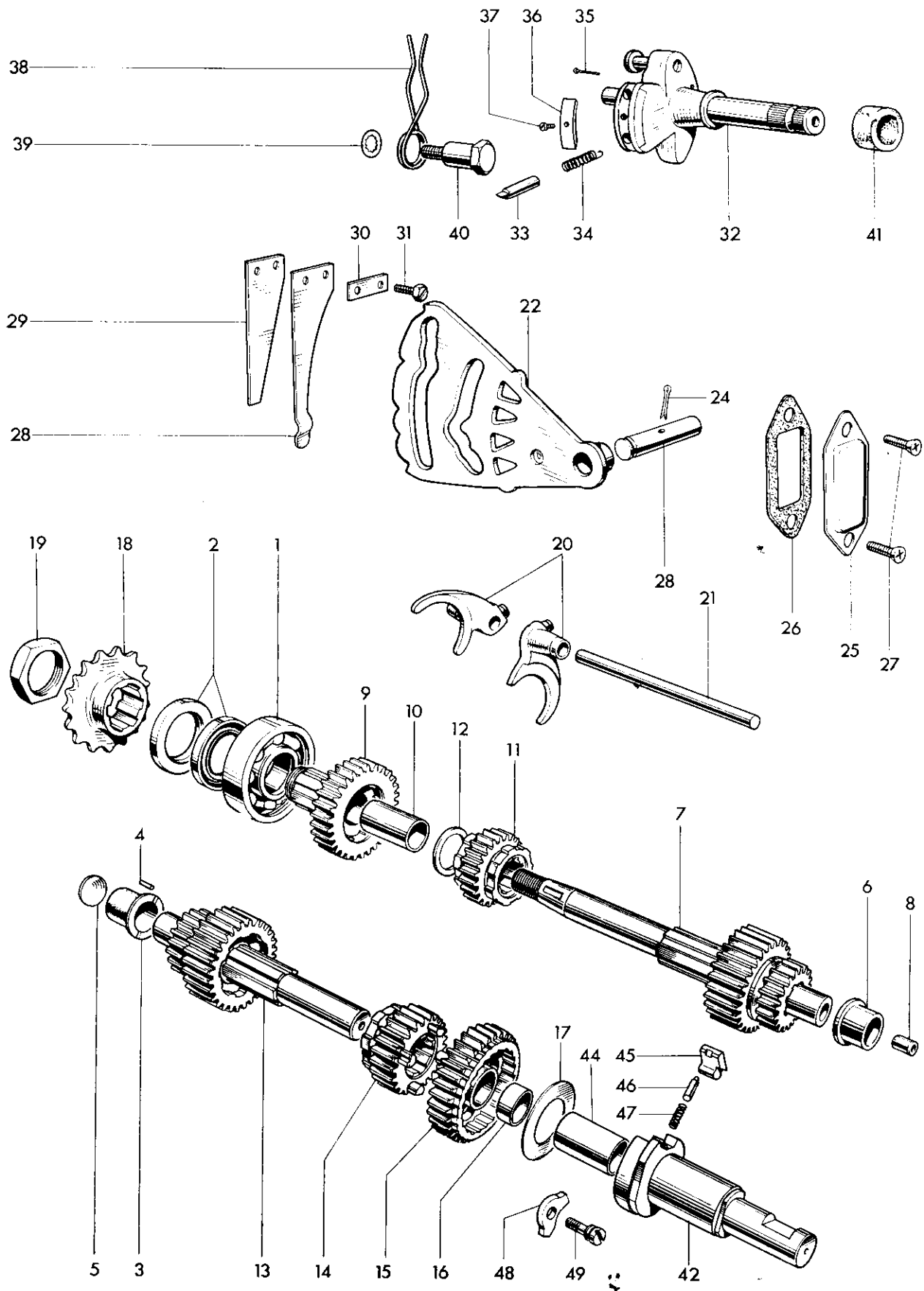


Fig. 5. GEARBOX SHAFTS AND GEARS

GEARBOX SHAFTS AND GEARS

| | | | T20SM | T20SH |
|----|--|--|-------|-------|
| 1 | T1070 | High gear bearing | 1 | 1 |
| 2 | H1168 | Oil seal | 2 | 2 |
| 3 | T1073 | Layshaft bearing bush | 1 | 1 |
| 4 | E3172 | Peg | 1 | 1 |
| 5 | T1269 | Blanking disc | 1 | 1 |
| 6 | T1147 | Mainshaft bush | 1 | 1 |
| 7 | T1588 | MAINSHAFT CLUSTER | 1 | 1 |
| 8 | T1085 | Clutch rod bush | 1 | 1 |
| 9 | T1596 | HIGH GEAR (29T) W.R. | 1 | - |
| 9 | T1565 | HIGH GEAR (27T) C.R. | - | 1 |
| 10 | T1515 | High gear bush | 1 | 1 |
| 11 | T1089 | Mainshaft second gear | 1 | 1 |
| 12 | T1090 | Mainshaft thrust ring | 1 | 1 |
| 13 | T1728 | Layshaft cluster (16T) W.R. | 1 | - |
| 13 | T1594 | Layshaft cluster (18T) C.R. | - | 1 |
| 14 | T1094 | Layshaft third gear | 1 | 1 |
| 15 | T1095 | LAYSHAFT LOW GEAR | 1 | 1 |
| 16 | T1097 | Low gear bush | 1 | 1 |
| 17 | T1274 | Pawl retaining disc | 1 | 1 |
| 18 | T1513/17 | Gearbox sprocket (17 teeth) | 1 | 1 |
| 19 | T1082 | Sprocket nut | 1 | 1 |
| 20 | T1098 | Selector fork | 2 | 2 |
| 21 | T1102 | Selector fork spindle | 1 | 1 |
| 22 | T1066 | Camplate | 1 | 1 |
| 23 | T1069 | Camplate spindle | 1 | 1 |
| 24 | $\frac{3}{32}$ in. x $\frac{3}{4}$ in. | Split pin | 1 | 1 |
| 25 | T1149 | Cover plate | 1 | 1 |
| 26 | T1148 | Joint washer | 1 | 1 |
| 27 | T1150 | Screw (0.41 in. U.H.) | 2 | 2 |
| 28 | T1248 | Index spring | 1 | 1 |
| 29 | T1249 | Supplementary index spring | 1 | 1 |
| 30 | T1180 | Lockplate | 1 | 1 |
| 31 | T1076 | Screw ($\frac{3}{8}$ in. U.H.) | 2 | 2 |
| 32 | T2104 | GEARCHANGE QUADRANT | 1 | 1 |
| 33 | T2105 | Plunger | 2 | 2 |
| 34 | T2106 | Spring | 2 | 2 |
| 35 | T1277 | Peg | 2 | 2 |
| 36 | T2107 | Keeper plate | 1 | 1 |
| 37 | T1676 | Screw | 1 | 1 |
| 38 | T1109 | Return spring | 1 | 1 |
| 39 | E2287 | Serrated washer | 1 | 1 |
| 40 | T1077 | Bolt | 1 | 1 |
| 41 | T1181 | Felt washer | 1 | 1 |

(continued on page 23)

For alternative sprockets see Page 10

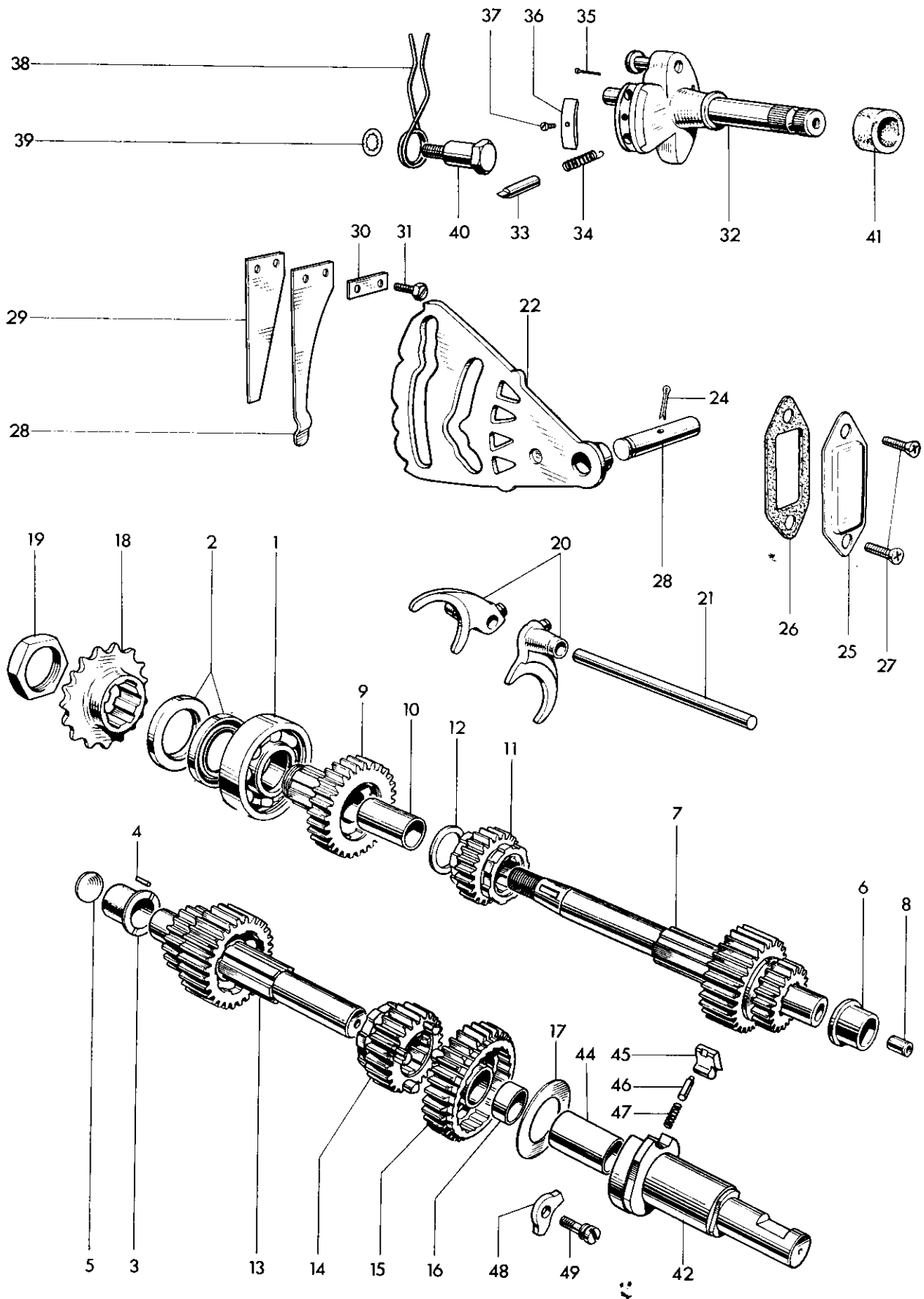


Fig. 5. GEARBOX SHAFTS AND GEARS

GEARBOX SHAFTS AND GEARS — (continued)

| | | | | | | | | | | | T20SM | T20SH |
|----|-------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 42 | T1279 | KICKSTARTER SPINDLE | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 44 | T1118 | Bush | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 45 | T1281 | Pawl | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 46 | T1282 | Plunger | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 47 | T1161 | Spring | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 48 | T1157 | Stop plate | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 49 | T1158 | Screw | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |

EXTRA CLOSE RATIO GEARS

| | | | |
|----|-------|------------------------------|-------------------------------|
| 7 | T1819 | Mainshaft cluster (E.C.R.) | } Extra close ratio gear set. |
| 9 | T1652 | Mainshaft high gear (E.C.R.) | |
| 11 | T1089 | Mainshaft second gear (Std.) | |
| 13 | T1657 | Layshaft cluster (E.C.R.) | |
| 14 | T1659 | Layshaft third gear (E.C.R.) | |
| 15 | T1095 | Layshaft low gear (Std.) | |

OPERATING LEVER ASSEMBLY REF. N° 1
CLUTCH COMPLETE REF. N° 13

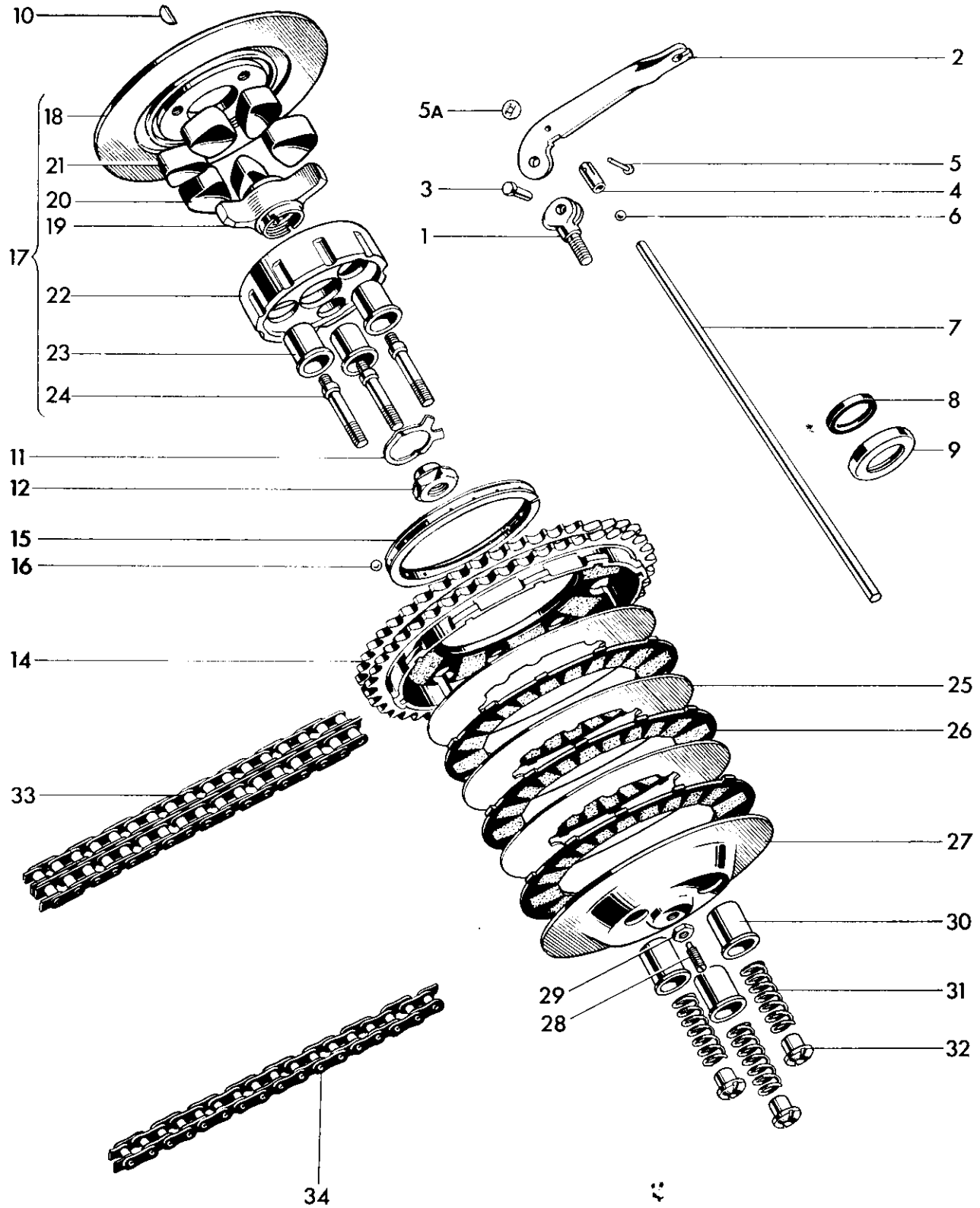


Fig. 6. CLUTCH AND CHAINS

CLUTCH AND CHAINS

| | | | | | | | | | | T20SM | T20SH |
|----|-------|--|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 1 | T2065 | CLUTCH OPERATING LEVER ASSEMBLY | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 2 | T2066 | Lever | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 3 | T1236 | Pin | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 4 | T2067 | Cup | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 5 | T2068 | Split | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 5A | T2069 | Push fix | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 6 | T1124 | Steel ball ($\frac{5}{32}$ in. diam.) | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 7 | T1140 | Clutch operating rod | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 8 | E3932 | Mainshaft oil seal | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 9 | E3933 | Oil seal retainer | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 10 | T1119 | Key | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 11 | T1347 | Tab washer | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 12 | T1348 | Nut | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 13 | T1924 | CLUTCH COMPLETE | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 14 | T1509 | Sprocket and housing (48 teeth) | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 15 | T1264 | Bearing ring | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 16 | T1124 | Steel ball ($\frac{5}{32}$ in. diam.) | ... | ... | ... | ... | ... | ... | ... | 16 | 16 |
| 17 | T1667 | SHOCK ABSORBER | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 18 | T1668 | Back plate | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 19 | T1346 | Spider | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 20 | T1132 | Drive rubber (large) | ... | ... | ... | ... | ... | ... | ... | 3 | 3 |
| 21 | T1318 | Rebound rubber (small) | ... | ... | ... | ... | ... | ... | ... | 3 | 3 |
| 22 | T1314 | Centre | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 23 | T1669 | Cup | ... | ... | ... | ... | ... | ... | ... | 3 | 3 |
| 24 | T1670 | Pin | ... | ... | ... | ... | ... | ... | ... | 3 | 3 |
| 25 | T1315 | Driven plate | ... | ... | ... | ... | ... | ... | ... | 3 | 3 |
| 26 | T1503 | Driving plate c/w linings | ... | ... | ... | ... | ... | ... | ... | 3 | 3 |
| 27 | T1925 | Pressure plate | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 28 | T2064 | Adjuster | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 29 | GS662 | Nut | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 30 | T1927 | Cup | ... | ... | ... | ... | ... | ... | ... | 3 | 3 |
| 31 | T1742 | Spring | ... | ... | ... | ... | ... | ... | ... | 3 | 3 |
| 32 | T1146 | Nut | ... | ... | ... | ... | ... | ... | ... | 3 | 3 |
| 33 | D382 | Primary chain ($\frac{3}{8}$ in. Duplex x 62 links) | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 34 | D554 | Rear chain ($\frac{1}{2}$ in. x $\frac{3}{16}$ in. x 117 links) | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 34 | D430 | Rear chain ($\frac{1}{2}$ in. x $\frac{3}{16}$ in. x 113 links) | ... | ... | ... | ... | ... | ... | ... | - | 1 |

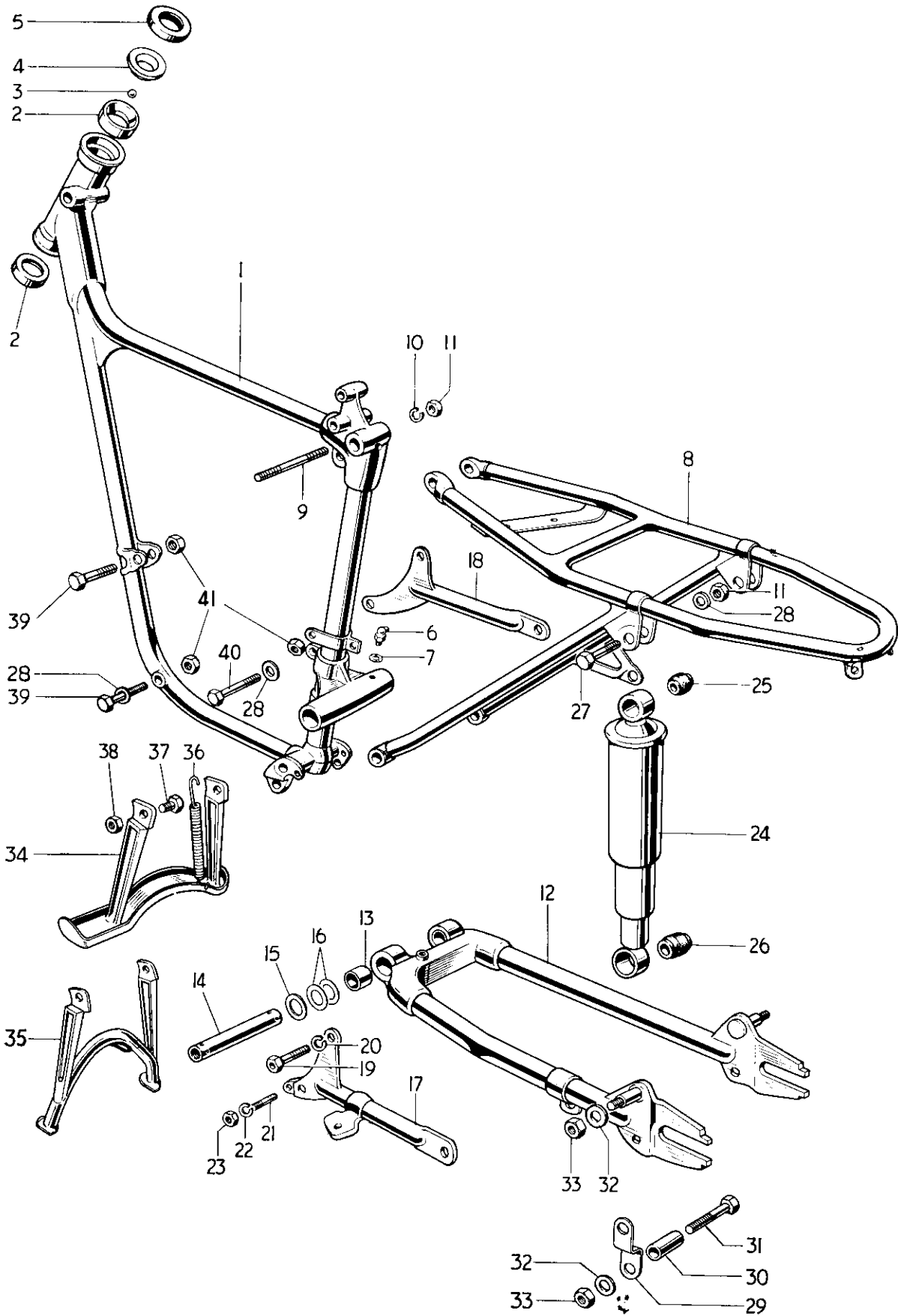


Fig. 7. FRAME COMPLETE

FRAME COMPLETE

| | | | T20SM | T20SH |
|----|-----------|--|-------------|-------|
| 1 | F4594 | Front Frame | - | 1 |
| 1 | F5191 | Front frame | 1 | - |
| 2 | H835 | Steering race cup | 2 | 2 |
| 3 | S70-3 | Steel ball ($\frac{1}{4}$ in. diam.) | 30 | 30 |
| 4 | H833 | Top cone | 1 | 1 |
| 5 | H836 | Dust cover | 1 | 1 |
| 6 | NW100 | Grease nipple | 1 | 1 |
| 7 | WE170 | Fibre washer | 1 | 1 |
| 8 | F5164 | Rear frame | 1 | 1 |
| 9 | E1023 | Stud ($3\frac{5}{8}$ in. O.A.) | 1 | 1 |
| 10 | S26-1 | Spring washer | 2 | 2 |
| 11 | P0172A | Nut | 4 | 4 |
| 12 | F6192 | SWINGING FORK | 1 | 1 |
| 13 | F4076 | Pivot bush | 2 | 2 |
| 14 | F4079 | Spindle | 1 | 1 |
| 15 | F4078 | Spacing washer | 1 | 1 |
| 16 | F4385 | Shim, 0-003 in. | as required | |
| 16 | F4386 | Shim, 0-005 in. | as required | |
| 17 | F4278 | Left bracket | 1 | 1 |
| 18 | F4081 | Right bracket | 1 | 1 |
| 19 | F4087 | Bolt ($1\frac{1}{2}$ in. U.H.) | 2 | 2 |
| 20 | PCW73A | Spring washer | 2 | 2 |
| 21 | E1396 | Stud ($1\frac{1}{16}$ in. O.A.) | 2 | 2 |
| 22 | S26-3 | Spring washer | 2 | 2 |
| 23 | S1-51 | Nut | 2 | 2 |
| 24 | SC3/204 | SUSPENSION UNIT | - | 2 |
| 24 | 64054441 | SUSPENSION UNIT | 2 | - |
| 25 | 9054/316A | Bonded bush | 2 | 2 |
| 26 | 9054/316J | Bonded bush | 2 | 2 |
| 27 | F1760 | Bolt ($1\frac{1}{8}$ in. U.H.) | - | 2 |
| 27 | E2113 | Bolt ($1\frac{1}{8}$ in. U.H.) | 2 | - |
| 28 | S25-2 | Washer | 4 | 4 |
| 29 | F4311 | Bracket | 2 | 2 |
| 30 | F3207 | Spacer | 2 | 2 |
| 31 | H622 | Bolt ($1\frac{1}{2}$ in. U.H.) | 2 | 2 |
| 32 | E1330C | Plain washer | 4 | 4 |
| 33 | S1-52 | Nut | 4 | 4 |
| 35 | F5041 | Centre stand | 1 | 1 |
| 36 | F2610 | Return spring | 1 | 1 |
| 37 | F3520 | Pivot bolt | 2 | 2 |
| 38 | H193 | Nut | 2 | 2 |
| 39 | F1245 | Bolt ($1\frac{5}{8}$ in. U.H.) | 2 | 2 |
| 40 | F3191 | Bolt ($2\frac{1}{8}$ in. U.H.) | 1 | 1 |
| 41 | F3955 | Self-locking nut | 3 | 3 |

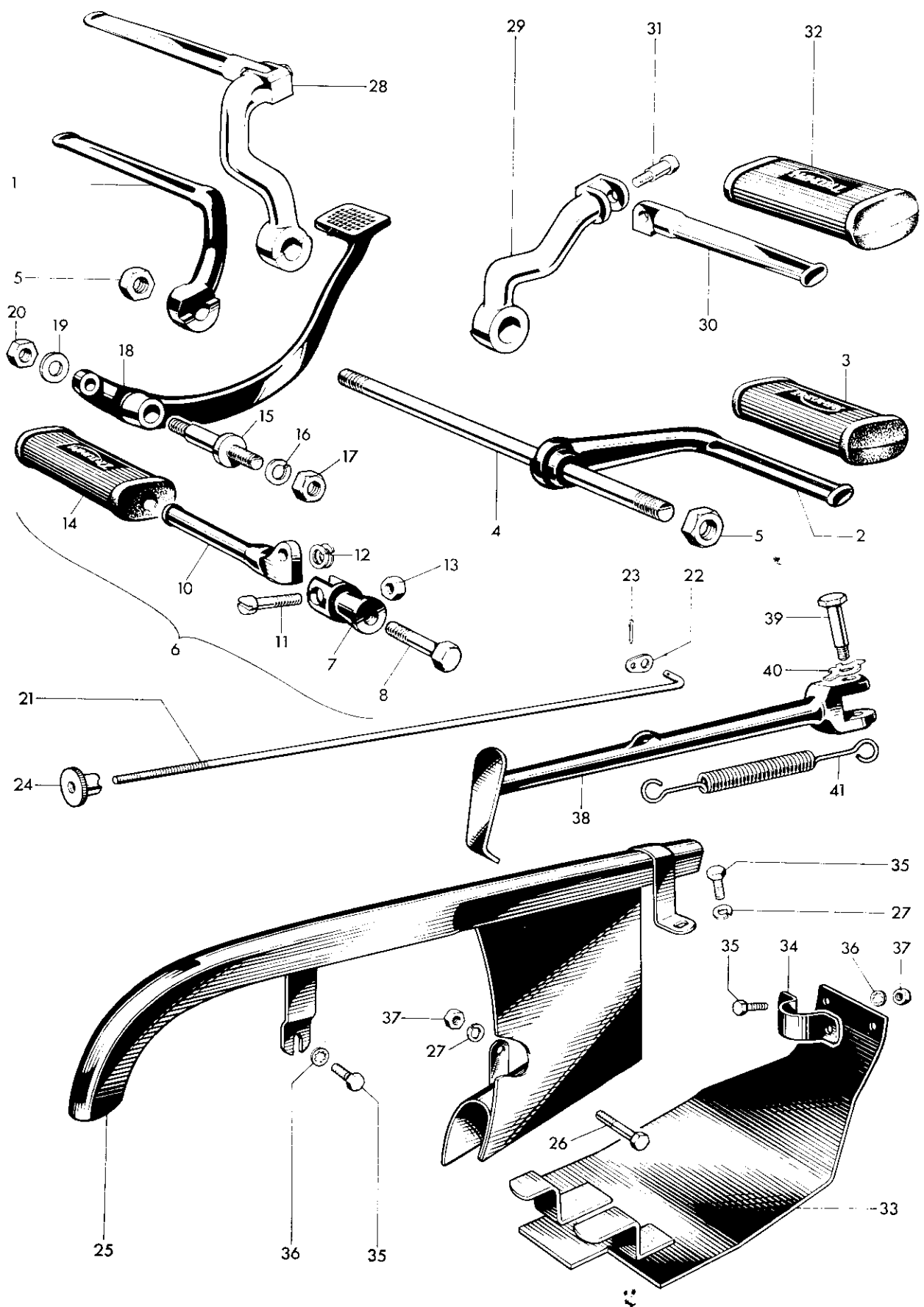


Fig. 8. FOOTRESTS, CHAINGUARD, PROPSTAND, ETC.

FOOTRESTS, CHAINGUARD, PROPSTAND, ETC.

| | | | T20SM | T20SH |
|----|--|--|-------|-------|
| 1 | F4383 | Left footrest | - | 1 |
| 2 | F3450 | Right footrest | - | 1 |
| 3 | F1695 | Pedal rubber | - | 2 |
| 4 | F3448 | Footrest hanger rod (6 $\frac{3}{4}$ in. O.A.) | 1 | 1 |
| 5 | H193 | Nut | 2 | 2 |
| 6 | F5552 | PILLION FOOTREST | 2 | 2 |
| 7 | F2268 | Footrest hanger | 2 | 2 |
| 8 | F5535 | Bolt ($\frac{1}{2}$ in. U.H.) | 2 | 2 |
| 9 | S26-1 | Spring washer | 2 | 2 |
| 10 | F1694 | Pedal | 2 | 2 |
| 11 | F2271 | Pivot bolt | 2 | 2 |
| 12 | F2277 | Spring washer | 2 | 2 |
| 13 | S1-51 | Nut | 2 | 2 |
| 14 | F1695 | Pedal rubber | 2 | 2 |
| 15 | F4090 | Brake pedal spindle | 1 | 1 |
| 16 | S26-1 | Spring washer | 1 | 1 |
| 17 | P0172A | Nut | 1 | 1 |
| 18 | F4091 | Brake pedal | 1 | 1 |
| 19 | S25-3 | Plain washer | 1 | 1 |
| 20 | T224 | Nut | 1 | 1 |
| 21 | F4093 | Brake rod | 1 | 1 |
| 22 | F3461 | Washer | 1 | 1 |
| 23 | $\frac{1}{16}$ in. x $\frac{3}{8}$ in. | Split pin | 1 | 1 |
| 24 | F3463 | Adjuster nut | 1 | 1 |
| 25 | F5053 | Rear chainguard | 1 | 1 |
| 26 | F1369 | Bolt ($\frac{5}{8}$ in. U.H.) | 1 | 1 |
| 27 | S26-2 | Spring washer | 2 | 2 |
| 28 | F6982 | Left footrest hanger | 1 | - |
| 29 | F6983 | Right footrest hanger | 1 | - |
| 30 | F6411 | Pedal | 2 | - |
| 31 | F6655 | Pivot bolt | 2 | - |
| 32 | F5022 | Pedal rubber | 2 | - |
| 33 | F4258 | Crankcase shield | 1 | - |
| 34 | F4260 | Clip | 1 | - |
| 35 | DS57 | Bolt ($\frac{7}{16}$ in. U.H.) | 5 | 3 |
| 36 | E1612 | Serrated washer | 2 | - |
| 37 | F879 | Nut | 3 | 1 |
| 38 | F4277 | PROP STAND COMPLETE | 1 | 1 |
| 39 | F3097 | Pivot bolt | 1 | 1 |
| 40 | F3096 | Tab washer | 1 | 1 |
| 41 | F2610 | Return spring | 1 | 1 |

FORK ASSEMBLY REF. N° 1

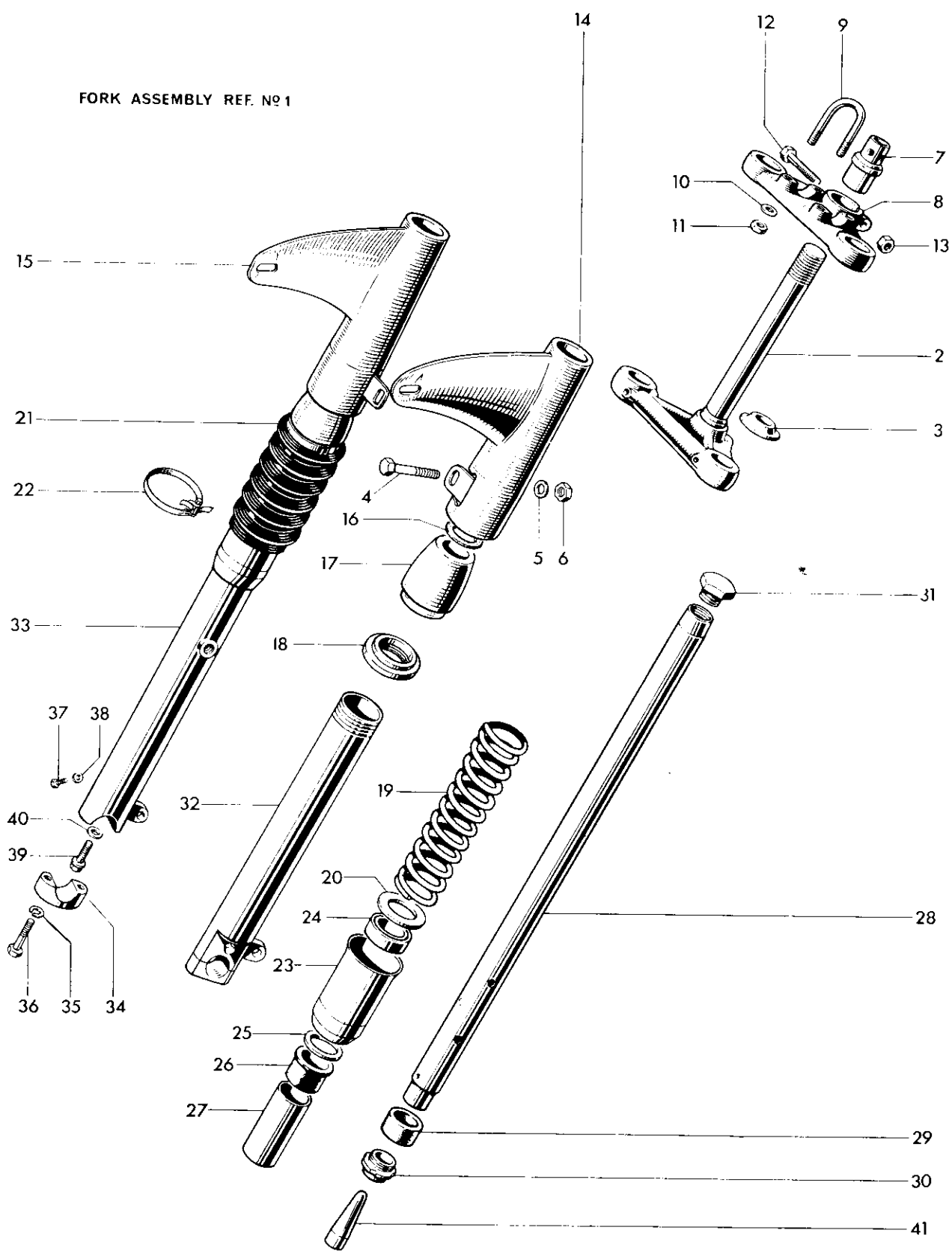


Fig. 9. TELESCOPIC FRONT FORK

TELESCOPIC FRONT FORK

| | | | T20SM | T20SH |
|----|-------|------------------------------------|-------|-------|
| 1 | H1880 | FORK ASSEMBLY | 1 | 1 |
| 2 | H1257 | Middle lug and stem | 1 | 1 |
| 3 | H833 | Bottom cone | 1 | 1 |
| 4 | H941 | Pinch bolt (2¼ in. U.H.) | 2 | 2 |
| 5 | S25-2 | Plain washer | 2 | 2 |
| 6 | H975 | Nut | 2 | 2 |
| 7 | H1260 | Fork stem sleeve nut | 1 | 1 |
| 8 | H1108 | Top lug | 1 | 1 |
| 9 | H660 | Handlebar 'U' bolt | 2 | 2 |
| 10 | S25-3 | Plain washer | 4 | 4 |
| 11 | E1310 | Nut | 4 | 4 |
| 12 | F1760 | Pinch bolt (1⅙ in. U.H.) | 1 | 1 |
| 13 | H379 | Seated nut | 1 | 1 |
| 14 | H1899 | Left top cover | 1 | 1 |
| 15 | H1898 | Right top cover... .. | 1 | 1 |
| 16 | F4047 | Cork washer | 2 | 2 |
| 17 | H1867 | Spring abutment | 2 | 2 |
| 18 | H1866 | Spring cup | 2 | 2 |
| 19 | H1865 | Main spring—Black/Yellow | 2 | 2 |
| 20 | H1656 | Plain washer | 2 | 2 |
| 21 | H1645 | Telescopic gaiter | 2 | 2 |
| 22 | H2083 | Gaiter clip | 4 | 4 |
| 23 | H1654 | DUST EXCLUDER SLEEVE NUT | 2 | 2 |
| 24 | H1500 | Oil seal | 2 | 2 |
| 25 | H431 | Plain washer | 2 | 2 |
| 26 | H441 | Top bearing | 2 | 2 |
| 27 | H1896 | Damping sleeve | 2 | 2 |
| 28 | H1928 | STANCHION C/W BEARING | 2 | 2 |
| 29 | H443 | Lower bearing | 2 | 2 |
| 30 | H1058 | Bearing nut | 2 | 2 |
| 31 | H1658 | Cap nut | 2 | 2 |
| 32 | H1842 | LEFT BOTTOM MEMBER C/W CAP | 1 | 1 |
| 33 | H1843 | RIGHT BOTTOM MEMBER C/W CAP | 1 | 1 |
| 34 | H1844 | Spindle cap... .. | 2 | 2 |
| 35 | S26-3 | Spring washer | 4 | 4 |
| 36 | H1070 | Bolt (1⅞ in. U.H.) | 4 | 4 |
| 37 | H1071 | Drain plug | 2 | 2 |
| 38 | H430 | Fibre washer | 2 | 2 |
| 39 | H1063 | Flanged bolt (¾ in. U.H.) | 2 | 2 |
| 40 | H1062 | Aluminium washer | 2 | 2 |
| 41 | H1499 | Restrictor | 2 | 2 |

WHEEL COMPLETE REF. N° 1
RIM, SPOKES & HUB REF. N° 2

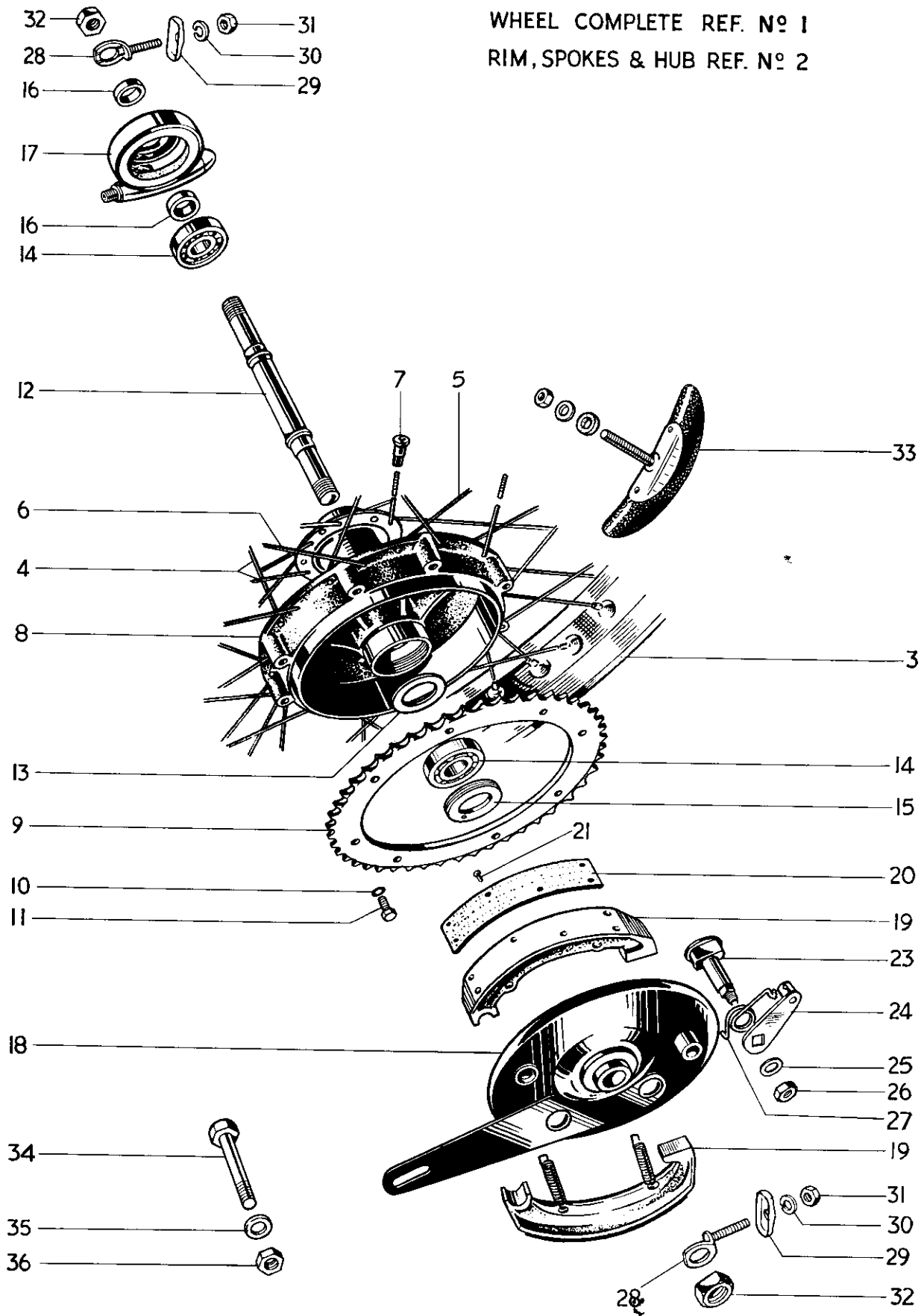


Fig. 11. REAR WHEEL

REAR WHEEL

| | | | T20SM | T20SH |
|----|--------|--|-------|-------|
| 1 | W1418 | REAR WHEEL COMPLETE | - | 1 |
| 1 | W1446 | REAR WHEEL COMPLETE | 1 | - |
| 2 | W1368 | RIM, SPOKES AND HUB ASSEMBLY | - | 1 |
| 2 | W1447 | RIM, SPOKES AND HUB ASSEMBLY | 1 | - |
| 3 | W1296 | Rear wheel rim WM 2-18 | - | 1 |
| 3 | W1007 | Rear wheel rim WM 3-18 | 1 | - |
| 4 | W1293 | Spoke (10/12G x 7 $\frac{1}{8}$ in. 90°) c/w nipple | - | 20 |
| 4 | W1465 | Spoke (10G x 7 $\frac{1}{8}$ in. 90°) c/w nipple | 20 | - |
| 5 | W1294 | Spoke (10/12G x 6 $\frac{3}{8}$ in. 100°) c/w nipple | - | 10 |
| 5 | W934 | Spoke (10G x 6 $\frac{3}{8}$ in. 94°) c/w nipple | 10 | - |
| 6 | W1295 | Spoke (10/12G x 6 $\frac{3}{8}$ in. 80°) c/w nipple | - | 10 |
| 6 | W933 | Spoke (10G x 6 $\frac{3}{8}$ in. 83°) c/w nipple | 10 | - |
| 7 | W965 | Nipple... | - | 40 |
| 7 | S79-2 | Nipple... | 40 | - |
| 8 | W1362 | Hub and brake drum | 1 | 1 |
| 9 | W1076 | *Sprocket (54T) | 1 | - |
| 9 | W984 | *Sprocket (48T) | - | 1 |
| 10 | W1122 | Spring washer | 8 | 8 |
| 11 | W1322 | Bolt ($\frac{5}{8}$ in. U.H.) | 8 | 8 |
| 12 | W989 | Spindle | 1 | 1 |
| 13 | W987 | Backing ring | 1 | 1 |
| 14 | H826 | Bearing | 2 | 2 |
| 15 | W988 | Retaining ring | 1 | 1 |
| 16 | W1223 | Distance piece | 2 | 2 |
| 17 | D175 | Speedometer gearbox | 1 | 1 |
| 18 | W1365 | Brake anchor plate | 1 | 1 |
| 19 | W977 | BRAKE SHOE C/W LINING | 2 | 2 |
| 20 | W978 | Brake lining | 2 | 2 |
| 21 | W979 | Brass rivet | 12 | 12 |
| 22 | W200 | Shoe return spring | 2 | 2 |
| 23 | W1128 | Brake cam | 1 | 1 |
| 24 | W1221 | Brake cam lever | 1 | 1 |
| 25 | S25-71 | Plain washer | 1 | 1 |
| 26 | T224 | Nut | 1 | 1 |
| 27 | W592 | Return spring | 1 | - |
| 28 | W1224 | Chain adjuster | 2 | 2 |
| 29 | W1227 | End plate | 2 | 2 |
| 30 | S26-2 | Spring washer | 2 | 2 |
| 31 | F879 | Nut | 2 | 2 |
| 32 | W1000 | Nut | 2 | 2 |
| 33 | D106 | Tyre security bolt | - | 1 |
| 33 | WM-3 | Tyre security bolt | 2 | - |
| 34 | H211 | Bolt ($\frac{5}{16}$ in. U.H.) | 1 | 1 |
| 35 | F2184 | Plain washer | 1 | 1 |
| 36 | F3955 | Self-locking nut | 1 | 1 |

*For alternative sprockets see Page 10.

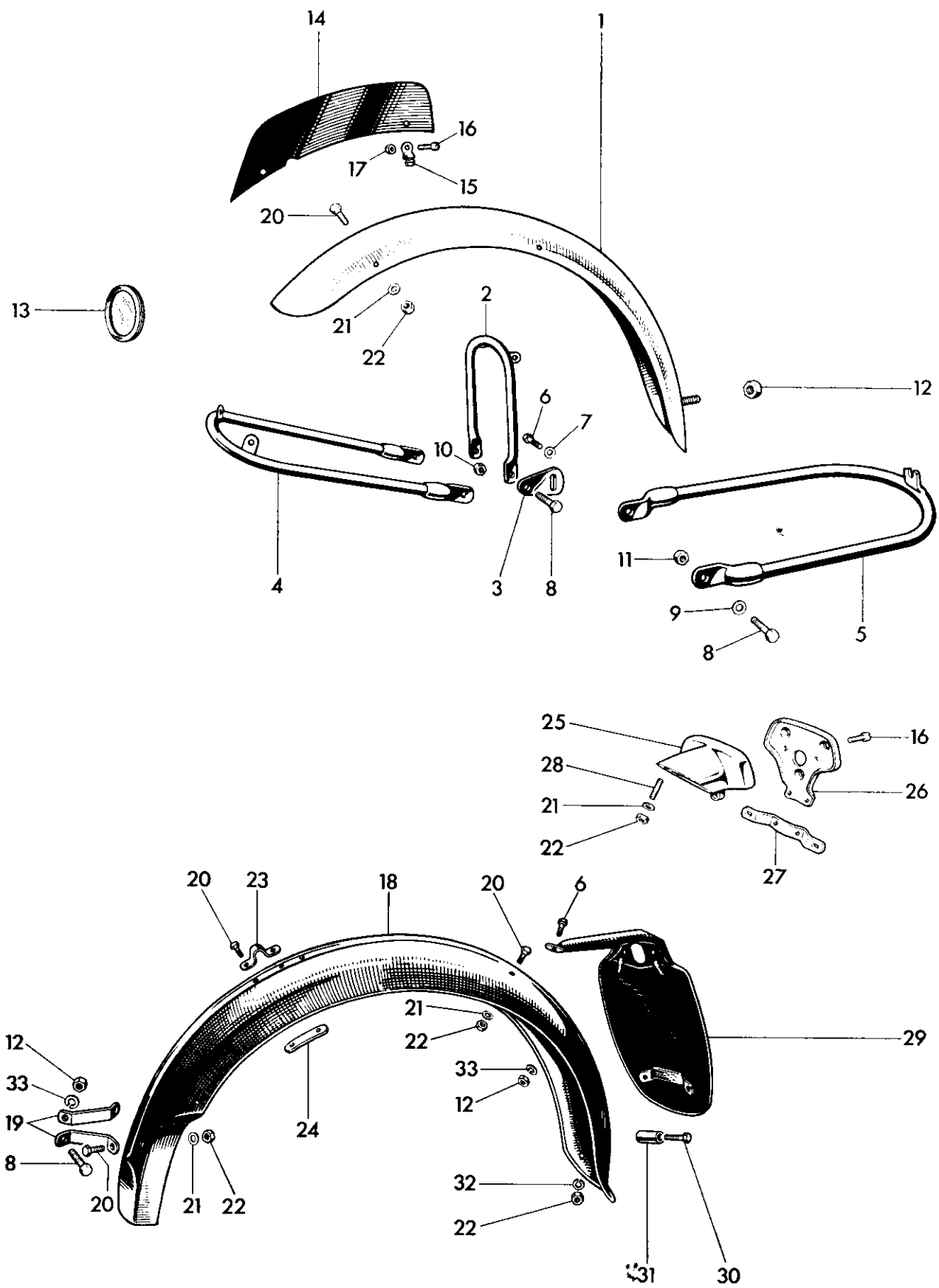


Fig. 12. MUDGUARDS AND NUMBER PLATES

MUDGUARDS AND NUMBER PLATES

| | | | | | | | | | | | | T20SM | T20SH |
|----|-------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 1 | H1677 | Mudguard blade | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 1 | H1675 | Mudguard blade | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 2 | H1683 | Bridge | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 3 | H1685 | Bracket | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 4 | H1681 | Front stay | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 5 | H1678 | Lower stay | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 6 | F929 | Bolt ($\frac{1}{2}$ in. U.H.) | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 3 |
| 7 | F4299 | Plain washer | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 8 | DS55 | Bolt ($\frac{13}{16}$ in. U.H.) | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5 | 5 |
| 9 | S25-3 | Plain washer | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 10 | T224 | Nut | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 11 | W1691 | Self-locking nut | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 12 | S1-51 | Nut | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 4 |
| 13 | D261 | Licence holder | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 14 | F6470 | Number plate | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 15 | H741 | Clip assembly | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 2 |
| 16 | F4715 | Screw ($\frac{13}{32}$ in. U.H.) | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 2 |
| 17 | H745 | Nut | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 2 |
| 18 | F6986 | Mudguard | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 18 | F6524 | Mudguard | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 19 | F5640 | Stay | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 20 | DS57 | Bolt ($\frac{7}{16}$ in. U.H.) | ... | ... | ... | ... | ... | ... | ... | ... | ... | 12 | 8 |
| 21 | S25-1 | Plain washer | ... | ... | ... | ... | ... | ... | ... | ... | ... | 17 | 12 |
| 22 | F879 | Nut | ... | ... | ... | ... | ... | ... | ... | ... | ... | 19 | 14 |
| 23 | PF204 | Clip | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 24 | F444 | Backing plate | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 25 | F6928 | Tail lamp adaptor | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 26 | F6945 | Tail lamp plate | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 27 | F6984 | Registration plate bracket | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | - |
| 28 | E2980 | Stud ($\frac{5}{8}$ in. O.H.) | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 29 | F5924 | Number plate | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 30 | F1149 | Bolt ($\frac{7}{8}$ in. U.H.) | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 2 |
| 31 | F5410 | Distance piece | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 2 |
| 32 | S26-2 | Spring washer | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 2 |
| 33 | S26-3 | Spring washer | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 2 |

TWINSEAT ASSY. REF. No.1

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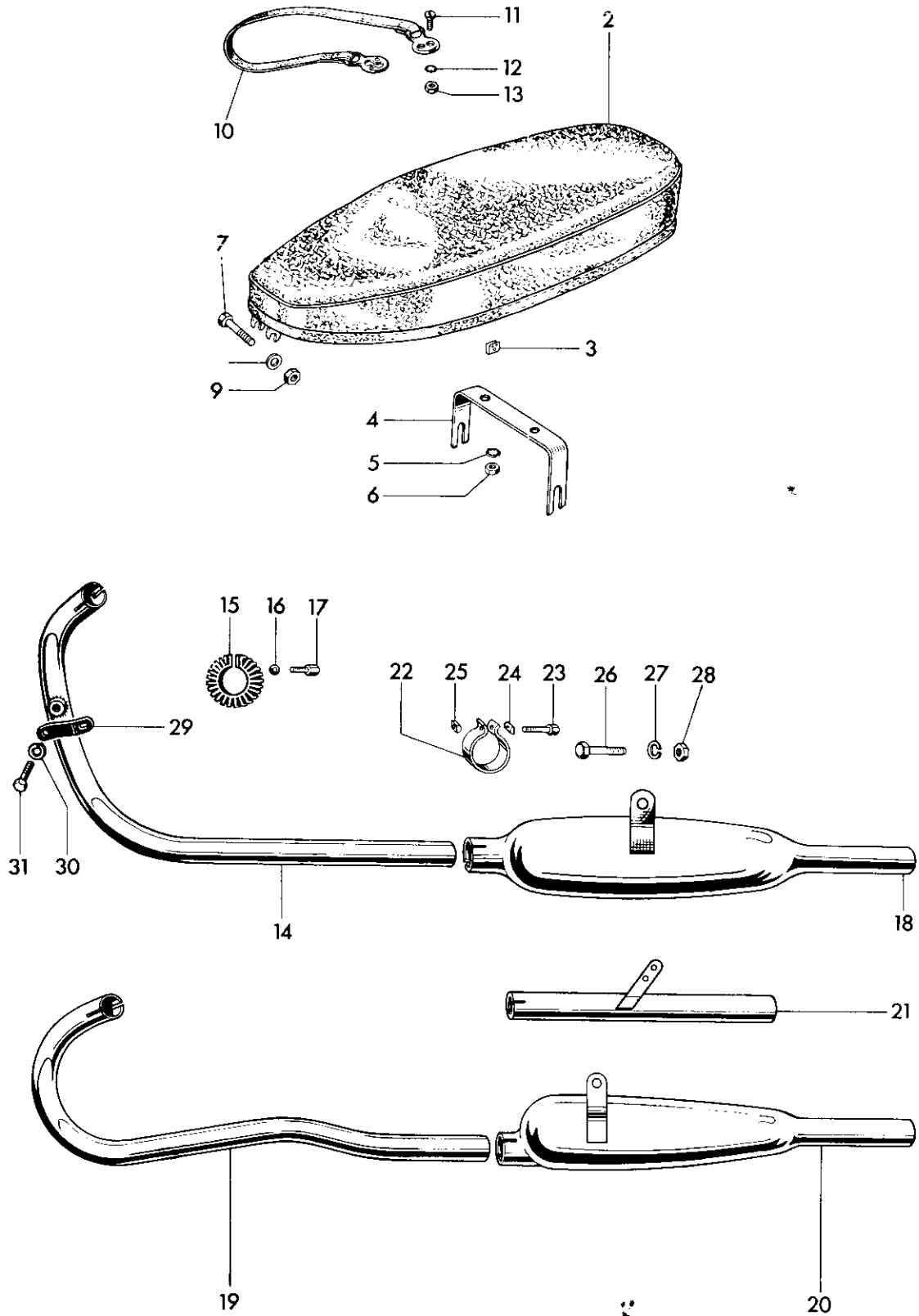


Fig. 13. TWINSEAT, REAR PANELS AND EXHAUST SYSTEM

TWINSEAT, REAR PANELS AND EXHAUST SYSTEM

T20SM T20SH

| | | | | |
|----|--------|---|-------------|---|
| 1 | F4272 | TWINSEAT COMPLETE | 1 | 1 |
| 2 | F4104 | Cover c/w clips | 1 | 1 |
| 3 | F4475 | Clip | as required | |
| 4 | F4261 | Rear bracket | 1 | 1 |
| 5 | E1612 | Serrated washer | 2 | 2 |
| 6 | F879 | Nut | 2 | 2 |
| 7 | E667A | Bolt (1½ in. U.H.) | 1 | 1 |
| 8 | S25-3 | Plain washer | 1 | 1 |
| 9 | E1310 | Nut | 1 | 1 |
| 10 | F4361 | Safety strap | 1 | A |
| 11 | F4129 | Screw (½ in. U.H.) | 4 | 4 |
| 12 | GS299 | Serrated washer | 4 | 4 |
| 13 | H745 | Nut | 4 | 4 |
| 14 | E4738 | Exhaust pipe | - | 1 |
| 15 | E4932 | Clip (chrome) | 1 | 1 |
| 16 | S25-13 | Plain washer | 1 | 1 |
| 17 | E3260 | Bolt (⅞ in. U.H.) | 1 | 1 |
| 18 | E3928 | Silencer | 1 | 1 |
| 19 | E4497 | Exhaust pipe (upswept) | 1 | - |
| 20 | E4496 | Silencer (upswept) | 1 | - |
| 21 | E3967 | Extension pipe | - | A |
| 22 | E3269 | Clip | 1 | 1 |
| 23 | TE164E | Bolt | 1 | 1 |
| 24 | TE164D | "D" washer | 1 | 1 |
| 25 | TE164C | "D" nut | 1 | 1 |
| 26 | F1031 | Bolt (½ in. U.H.), silencer hanger | A | A |
| 27 | S26-1 | Spring washer | A | A |
| 28 | P0172A | Nut | A | A |
| 29 | E4737 | Bracket | 1 | 1 |
| 30 | S26-3 | Spring washer | 1 | 1 |
| 31 | F929 | Bolt | 1 | 1 |

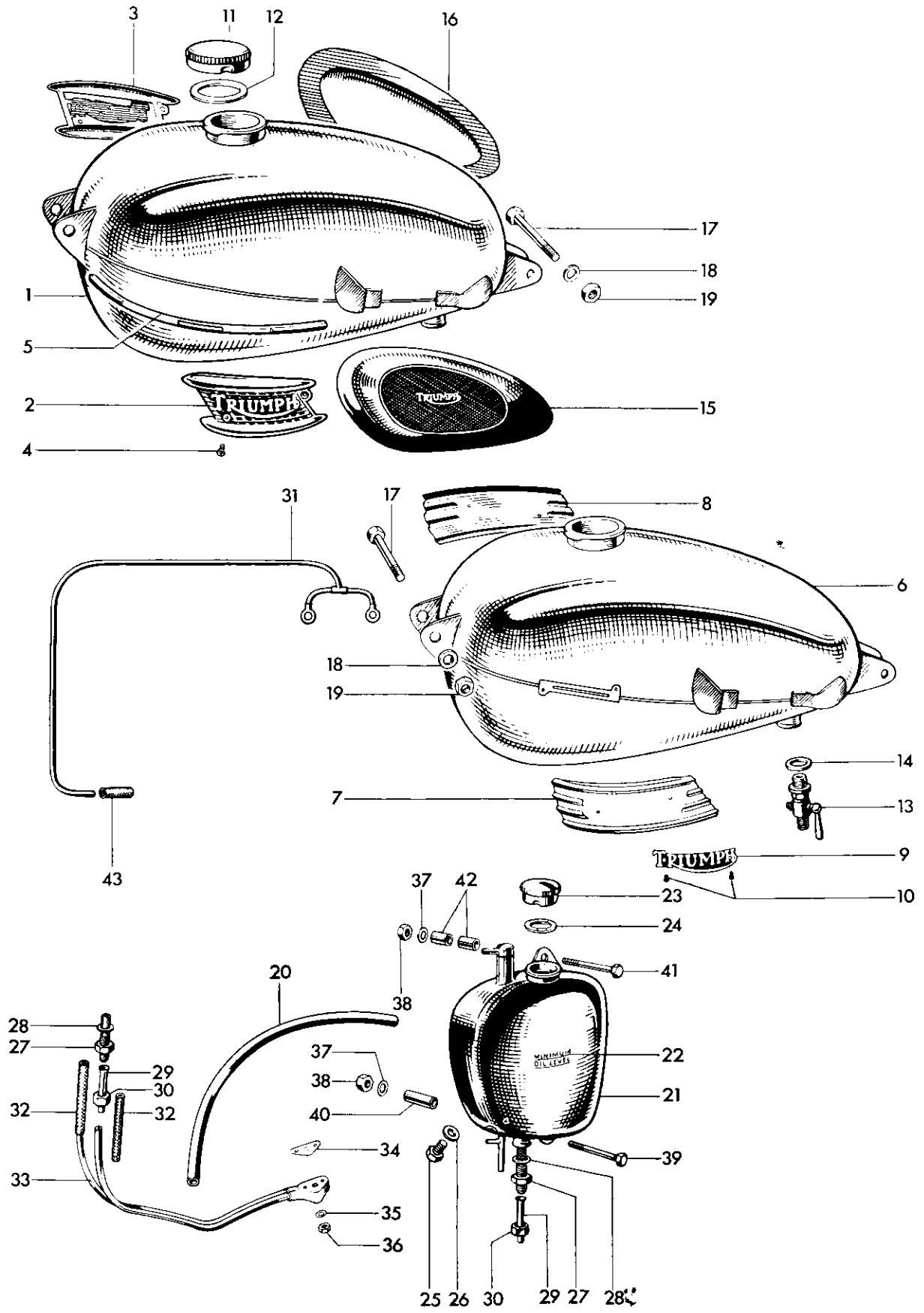


Fig. 14. PETROL AND OIL TANKS

PETROL AND OIL TANKS

| | | | | | | | | | | | T20SM | T20SH |
|----|--------|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 1 | F4496 | Petrol tank (3 gallons) | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 2 | F4570 | Left styling unit | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 3 | F4571 | Right styling unit | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 4 | F4468 | Screw ($\frac{9}{16}$ in. U.H.) | ... | ... | ... | ... | ... | ... | ... | ... | - | 4 |
| 5 | F5100 | Styling strip | ... | ... | ... | ... | ... | ... | ... | ... | - | 2 |
| 6 | F3505 | Petrol tank ($2\frac{1}{2}$ gallons) | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 7 | F3494 | Left styling band | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 8 | F3495 | Right styling band | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 9 | F3496 | Nameplate | ... | ... | ... | ... | ... | ... | ... | ... | 2 | - |
| 10 | F3497 | Screw ($\frac{13}{16}$ in. U.H.) | ... | ... | ... | ... | ... | ... | ... | ... | 4 | - |
| 11 | F3220 | FILLER CAP | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 12 | F4048 | Joint washer | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 13 | F4908 | Petrol tap | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 14 | E697 | Fibre washer | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 15 | F1606 | Left knee grip | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 16 | F1605 | Right knee grip | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 17 | F3498 | Bolt ($2\frac{5}{8}$ in. U.H.) | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 18 | S25-3 | Plain washer | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 19 | S1-51 | Nut | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 20 | T1203 | Flexible vent pipe | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 21 | F4572 | OIL TANK | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 22 | A3 | Transfer (Minimum oil level) | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 23 | F3216 | FILLER CAP | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 24 | F4047 | Joint washer | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 25 | F5343 | Drain plug | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 26 | PT104B | Fibre washer | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 27 | F3876 | Filter | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 28 | F1511 | Fibre washer | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 29 | F3503 | Upper feed pipe | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 30 | F3504 | Union nut | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 31 | E3244 | Rocker oil feed pipe... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 32 | E6116 | Rubber connector | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 33 | E6113 | Oil pipes and junction block | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 34 | E3274 | Joint washer | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 35 | S25-13 | Plain washer | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 36 | F879 | Nut | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 37 | S25-3 | Plain washer | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 38 | S1-51 | Nut | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 39 | F2596 | Bolt ($1\frac{7}{8}$ in. U.H.) | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 40 | F3477 | Distance piece | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 41 | F3468 | Bolt ($2\frac{1}{16}$ in. U.H.) | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 42 | F3476 | Distance piece | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 43 | E3383 | Rubber connector | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |

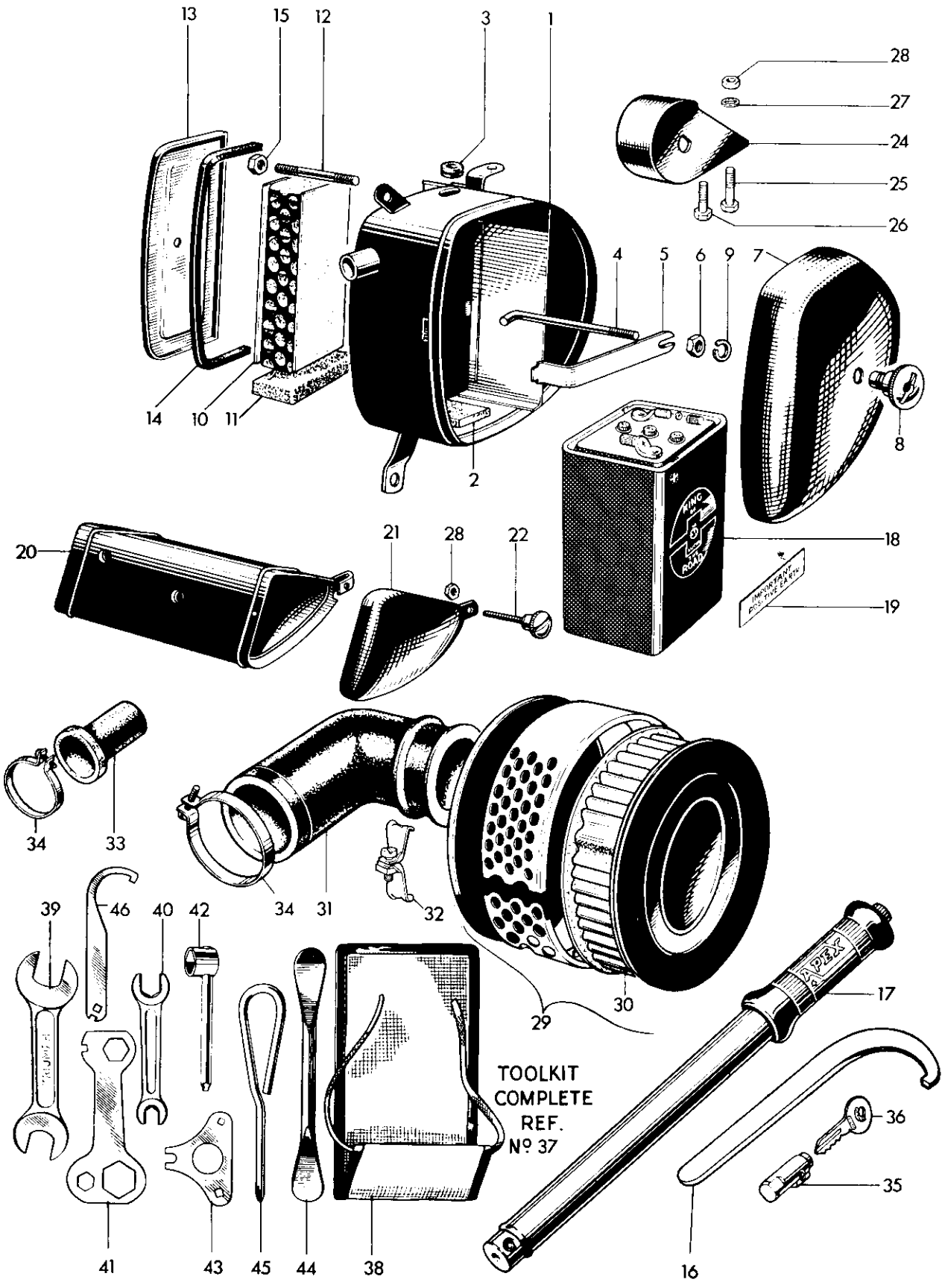
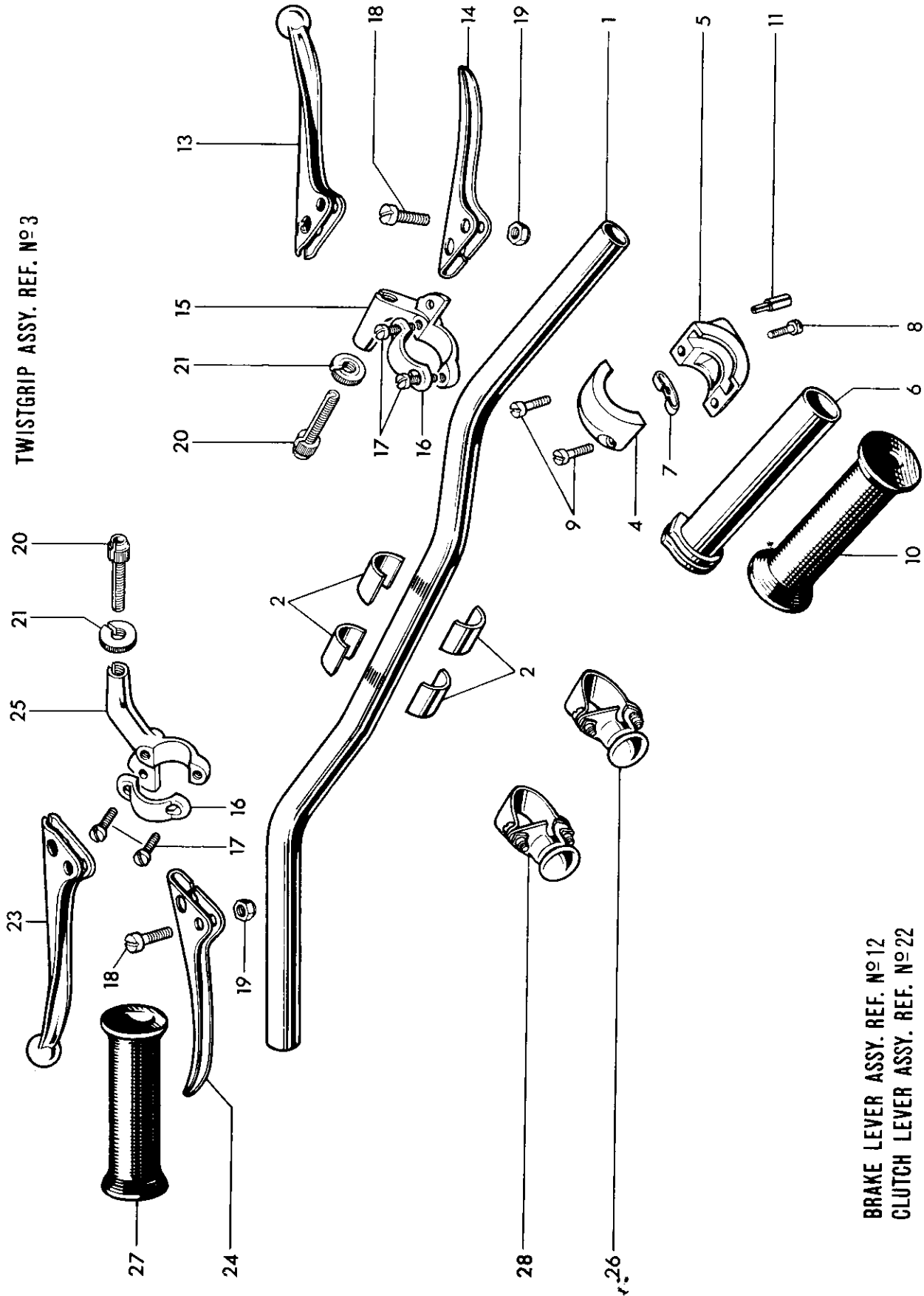


Fig. 15. BATTERY CASE, TOOLBOX AND AIR FILTER

BATTERY CASE, TOOLBOX AND AIR FILTER

| | | | | | | | | | | T20SM | T20SH |
|----|--------|---|-----|-----|-----|-----|-----|-----|-----|-------------|-------|
| 1 | F5139 | BATTERY CASE, AIR FILTER AND TOOL BOX | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 2 | F3470 | Rubber pad | ... | ... | ... | ... | ... | ... | ... | - | 2 |
| 3 | 199002 | Grommet | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 4 | F3472 | Hook bolt | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 5 | F3473 | Strap | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 6 | F879 | Nut | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 7 | F3493 | Lid c/w knob | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 8 | F3474 | Knob | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 9 | F3475 | Circlip | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 10 | F5137 | Air filter element | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 11 | F5140 | Rubber pad | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 12 | F3656 | Stud (1½ in. O.A.) | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 13 | F5141 | Lid | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 14 | H251 | Beading | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 15 | H745 | Nut | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 16 | D527 | Fork sleeve nut spanner | ... | ... | ... | ... | ... | ... | ... | as required | |
| 17 | D296 | Tyre inflator | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 18 | 408200 | Battery PUZ5E/11 | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 19 | A52 | Transfer "Positive earth" | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 20 | F4877 | TOOLBOX | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 21 | F4882 | Toolbox lid | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 22 | F4885 | Fastener screw | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 23 | F4717 | Self locking nut | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 24 | F5143 | Switch bracket | ... | ... | ... | ... | ... | ... | ... | - | 2 |
| 25 | F1369 | Bolt (5/8 in. U.H.) | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 26 | DS57 | Bolt (7/16 in. U.H.) | ... | ... | ... | ... | ... | ... | ... | - | 3 |
| 27 | E1612 | Serrated washer | ... | ... | ... | ... | ... | ... | ... | - | 4 |
| 28 | F879 | Nut | ... | ... | ... | ... | ... | ... | ... | - | 4 |
| 29 | F6428 | AIR FILTER | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 30 | F5694 | Element and back plate assembly (paper element)... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 31 | F5038 | Rubber connector | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 32 | F4810 | Clip | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 33 | F5142 | Rubber connector | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 34 | F3859 | Clip | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 35 | D402/3 | FRAME LOCK C/W 2 KEYS | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 36 | D403 | Key (state number) | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 37 | D290 | TOOLKIT | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 37 | D533 | TOOLKIT | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 38 | D291 | Toolbag | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 39 | D299 | Open spanner, 3/8 in. x 7/16 in. Whit. | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 40 | D292 | Open spanner, 1/8 in. x 3/16 in. x 1/4 in. x 5/16 in. Whit. | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 41 | D293 | Combination spanner, 3/16 in. x 5/16 in. x 1/2 in. Whit. | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 42 | D294 | Screwdriver and 1/4 in. Whit. spanner | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 43 | DA70 | Clutch key | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 44 | NA14A | Tyre lever | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 45 | D335 | Phillips No. 2 screwdriver | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 46 | D362 | "C" spanner | ... | ... | ... | ... | ... | ... | ... | 1 | - |



TWISTGRIP ASSY. REF. N°3

BRAKE LEVER ASSY. REF. N°12
CLUTCH LEVER ASSY. REF. N°22

Fig. 16. HANDLEBARS AND CONTROL LEVERS

HANDLEBARS AND CONTROL LEVERS

| | | | | | | | | | | | | T20SM | T20SH |
|----|---------|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 1 | H1519 | Handlebar bend | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 1 | H527 | Handlebar bend | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 2 | H1425 | Packing piece | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4 | 4 |
| 3 | 366/2 | TWISTGRIP | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 4 | 366/001 | Body top half | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 5 | 366/002 | Body bottom half | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 6 | 366/004 | Rotor | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 7 | 366/007 | Friction spring | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 8 | 366/008 | Friction spring screw | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 9 | 376/079 | Screw | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 10 | 16/070 | Handlebar grip | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 11 | 366/006 | Cable stop | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 12 | 18/1065 | FRONT BRAKE LEVER ASSEMBLY (Ball end) | | | | | | | | | | 1 | - |
| 12 | 18/999 | FRONT BRAKE LEVER ASSEMBLY | | | | | | | | | | - | 1 |
| 13 | 18/754 | Brake lever (Ball end) | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 14 | 18/535 | Brake lever | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 15 | 18/1013 | Brake lever bracket | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 16 | 12/595 | Clamp | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 17 | 11/014 | Screw | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 18 | 18/087 | Fulcrum screw | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 19 | 18/053 | Self-locking nut | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 20 | 18/1005 | Cable adjuster | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 21 | 18/1006 | Thumb nut | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 22 | 18/1066 | CLUTCH LEVER ASSEMBLY (Ball end)... | | | | | | | | | | 1 | - |
| 22 | 18/1000 | CLUTCH LEVER ASSEMBLY | | | | | | | | | | - | 1 |
| 23 | 18/752 | Clutch lever (Ball end) | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 24 | 18/528 | Clutch lever | ... | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 25 | 18/1009 | Clutch lever bracket | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 16 | 12/595 | Clamp | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 17 | 11/014 | Screw | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 18 | 18/087 | Fulcrum screw | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 19 | 18/053 | Self-locking nut | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 20 | 18/1005 | Cable adjuster | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 21 | 18/1006 | Thumb nut | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 26 | 76204 | Horn push or cut-out button, type 4A | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 1 |
| 27 | 16/069 | Handlebar grip | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 28 | D553 | Horn button, Clear Hooters No. 10 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |

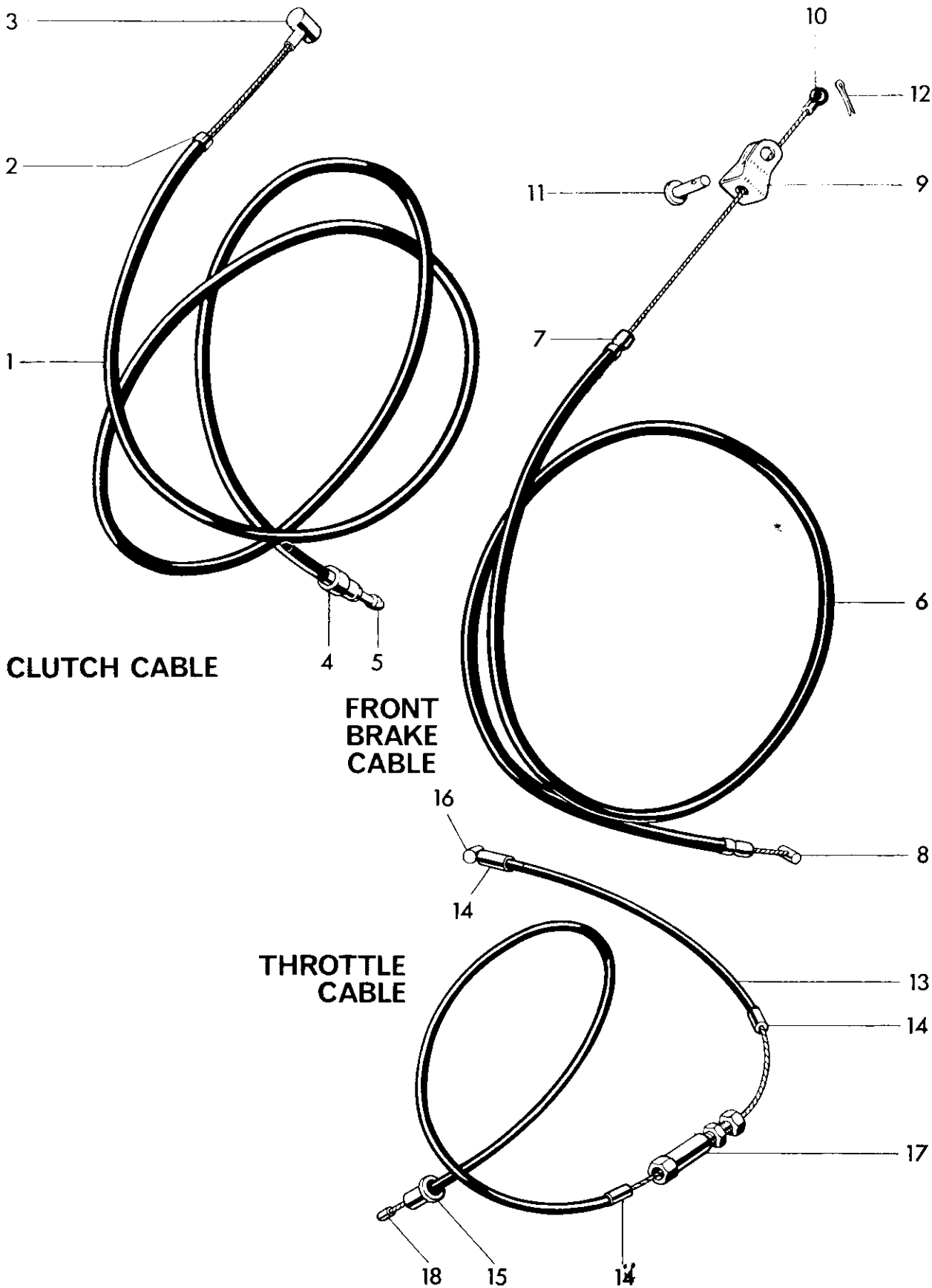


Fig. 17. CONTROL CABLES

CONTROL CABLES

| | | | | | | | | | | | T20SM | T20SH |
|----|--|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 1 | D567 | CLUTCH CABLE | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 2 | D103 | Ferrule | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 3 | D506 | Nipple (H/Bar end) | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 4 | D333 | Abutment | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 5 | D334 | Nipple | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 6 | D564 | FRONT BRAKE CABLE | ... | ... | ... | ... | ... | ... | ... | ... | 1 | - |
| 6 | D569 | FRONT BRAKE CABLE | ... | ... | ... | ... | ... | ... | ... | ... | - | 1 |
| 7 | D103 | Ferrule | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 |
| 8 | D506 | Nipple (H/Bar end) | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 9 | D280 | Clevis | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 10 | DS73 | Nipple | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 11 | D281 | Clevis pin | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 12 | $\frac{1}{16}$ in. x $\frac{3}{8}$ in. | Split pin | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 13 | D420 | THROTTLE CABLE | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 14 | 12/083 | Ferrule | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 3 |
| 15 | 6/132A | Ferrule | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 16 | D411 | Nipple (H/Bar end) | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 17 | D104 | Adjuster | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| 18 | NS191 | Nipple | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |

CARBURETTER COMPLETE REF. No. 1

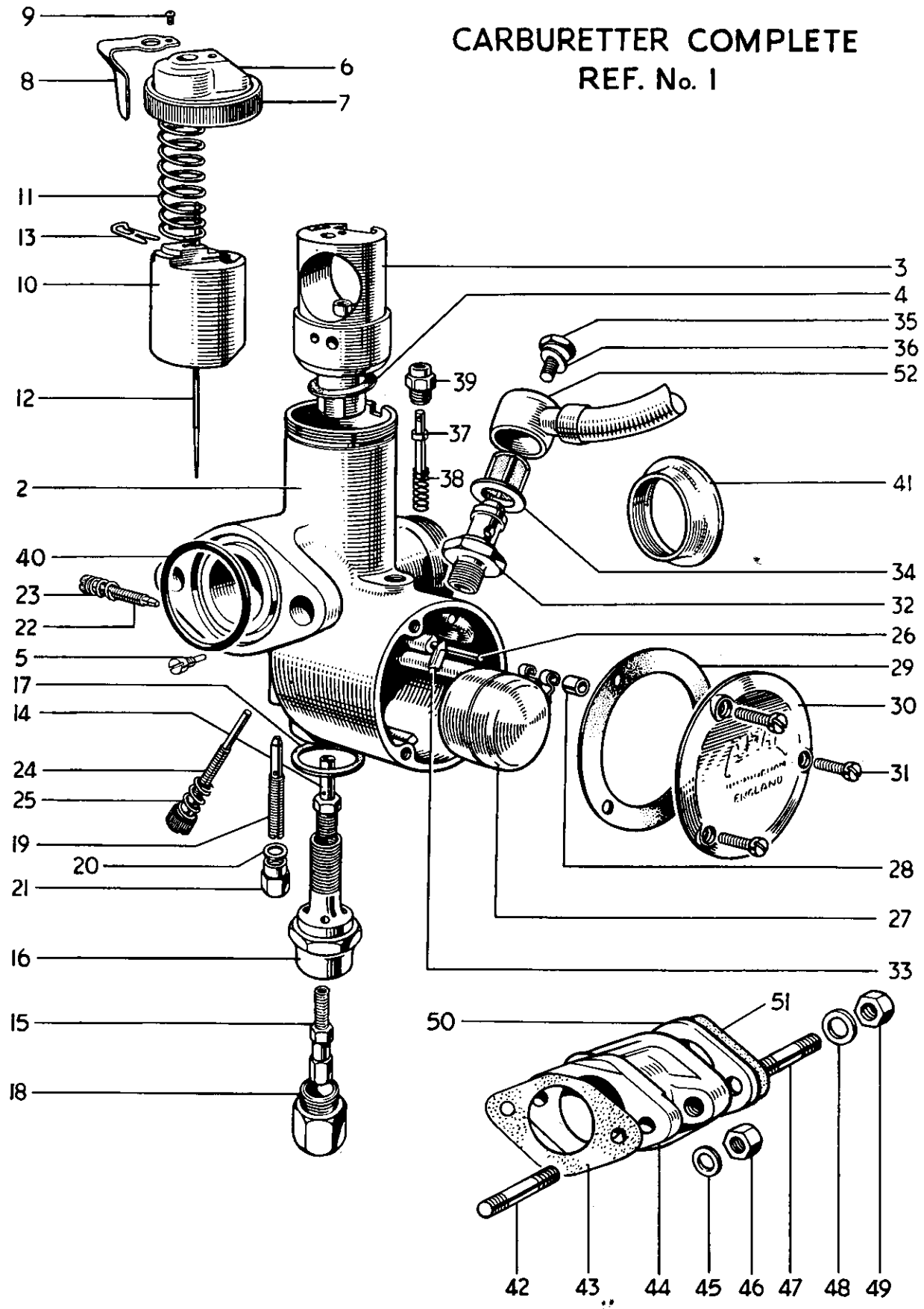


Fig. 18. AMAL CARBURETTER, TYPE 376

AMAL CARBURETTER, TYPE 376

| | | | T20SM | T20SH |
|----|----------|---|-------|-------|
| 1 | 376/272 | CARBURETTER COMPLETE (T20SM 376/314) ... | 1 | 1 |
| 2 | 376/001 | Mixing chamber ... | 1 | 1 |
| 3 | 376/055 | Jet block... ... | 1 | 1 |
| 4 | 376/067 | Joint washer ... | 1 | 1 |
| 5 | 376/070 | Peg screw ... | 1 | 1 |
| 6 | 376/155 | Mixing chamber top ... | 1 | 1 |
| 7 | 376/065 | Cap ring ... | 1 | 1 |
| 8 | 29/308 | Spring ... | 1 | 1 |
| 9 | 4/241 | Screw ... | 1 | 1 |
| 10 | 376/060 | Throttle valve (No. 3 Cutaway) (T20SM—2½ Cutaway) ... | 1 | 1 |
| 11 | 376/061 | Spring ... | 1 | 1 |
| 12 | 376/063 | Needle (Type C) ... | 1 | 1 |
| 13 | 4/230 | Clip ... | 1 | 1 |
| 14 | 376/072 | Needle jet (106) (T20SM—105) ... | 1 | 1 |
| 15 | 376/100 | Main jet (140) ... | 1 | 1 |
| 16 | 376/073 | Jet holder ... | 1 | 1 |
| 17 | 376/074 | Fibre washer ... | 1 | 1 |
| 18 | 376/075 | Cover nut ... | 1 | 1 |
| 19 | 376/076 | Pilot jet (20) (T20SM—15) ... | 1 | 1 |
| 20 | 116/162 | Fibre washer ... | 1 | 1 |
| 21 | 376/095 | Cover nut ... | 1 | 1 |
| 22 | 332/017 | Air adjusting screw ... | 1 | 1 |
| 23 | 4/148 | Spring ... | 1 | 1 |
| 24 | 376/068 | Throttle stop screw ... | 1 | 1 |
| 25 | 376/069 | Spring ... | 1 | 1 |
| 26 | 376/085 | Float spindle ... | 1 | 1 |
| 27 | 376/083 | Float ... | 1 | 1 |
| 28 | 376/094 | Bush ... | 1 | 1 |
| 29 | 376/078 | Joint washer ... | 1 | 1 |
| 30 | 376/077 | Cover ... | 1 | 1 |
| 31 | 376/079 | Screw ... | 3 | 3 |
| 32 | 376/088 | Needle seating ... | 1 | 1 |
| 33 | 376/089 | Needle ... | 1 | 1 |
| 34 | 376/093 | Filter ... | 1 | 1 |
| 35 | 376/091 | Bolt ... | 1 | 1 |
| 36 | 376/092 | Fibre washer ... | 1 | 1 |
| 37 | 376/086 | Tickler ... | 1 | 1 |
| 38 | 376/087 | Spring ... | 1 | 1 |
| 39 | 343/011 | Tickler body ... | 1 | 1 |
| 40 | 244/1048 | "O" ring seal ... | 1 | 1 |
| 41 | 376/066 | Air intake tube ... | A | A |
| 42 | E6549 | Stud (1 in. O.A.) ... | 2 | 2 |
| 43 | E5902 | Joint washer ... | 1 | 1 |
| 44 | E5900 | Adaptor ... | 1 | 1 |
| 45 | E2728 | Plain washer ... | 2 | 2 |
| 46 | E5269 | Nut ... | 2 | 2 |
| 47 | E6550 | Stud (1½ in. O.A.) ... | 2 | 2 |
| 48 | S25-3 | Plain washer ... | 2 | 2 |
| 49 | S1-51 | Nut ... | 2 | 2 |
| 50 | E4504 | Insulating block ... | 1 | 1 |
| 51 | NA43 | Joint washer ... | 1 | 1 |
| 52 | F4886 | Petrol pipe ... | 1 | 1 |

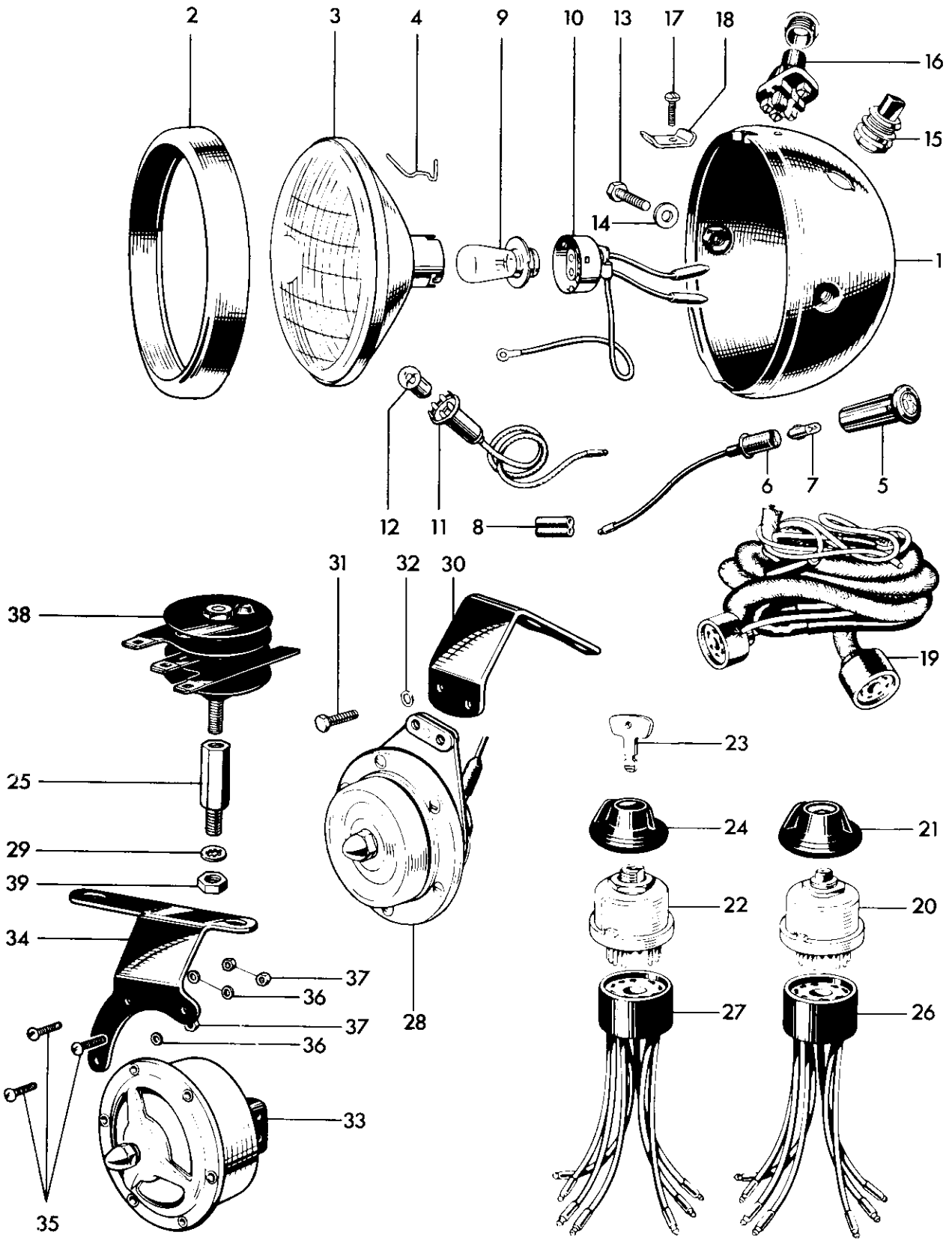


Fig. 19. ELECTRICAL EQUIPMENT

ELECTRICAL EQUIPMENT

| | | | T20SM | T20SH |
|----|----------|---|-------|-------|
| 1 | 58395L | HEADLAMP ASSEMBLY, MCH 66 c/w High beam warning | 1 | - |
| 1 | 58935F | HEADLAMP ASSEMBLY, MCH 66 | - | 1 |
| 2 | 534343 | Rim | 1 | 1 |
| 3 | 54520452 | Light unit | 1 | - |
| 3 | 516828 | Light unit | - | 1 |
| 4 | 504665 | Fixing wire | 6 | 6 |
| 5 | 38189 | Warning lamp body and lens | 1 | - |
| 6 | 54933910 | Warning bulbholder | 1 | - |
| 7 | 282 | Warning bulb, BA 7S, 6V. 0.6W. | 1 | - |
| 8 | 850641 | Double snap connector | 1 | - |
| 9 | 166 | Bulb (24/24W. Pre-focus, Vertical Dip) | 1 | 1 |
| 10 | 554602 | Adaptor | 1 | 1 |
| 11 | 554710 | Pilot bulbholder | - | 1 |
| 12 | 988 | Bulb (3W. MCC) | - | 1 |
| 13 | 112201 | Bolt | 2 | 2 |
| 14 | 137499 | Washer | 2 | 2 |
| 15 | 31356 | Lighting switch | 1 | - |
| 16 | 31620 | Dip switch | 1 | 1 |
| 17 | 144921 | Screw | 1 | 1 |
| 18 | 534296 | Plate | 1 | 1 |
| 19 | 54094433 | Wiring harness | 1 | - |
| 19 | 54933224 | Wiring harness | - | 1 |
| 20 | 34289 | Lighting switch, type 88SA | - | 1 |
| 21 | 54330934 | Knob c/w screw | - | 1 |
| 22 | 34427 | IGNITION SWITCH c/w KEY, TYPE 88SA | - | 1 |
| 23 | 54336176 | Ignition key | - | 1 |
| 24 | 54336178 | Ignition switch cover | - | 1 |
| 25 | F5431 | Extended nut | - | 1 |
| 26 | 54930007 | Replacement harness socket (lighting) | - | A |
| 27 | 54930008 | Replacement harness socket (ignition) | - | A |
| 28 | 70178 | Horn, type 8H | - | 1 |
| 29 | E2287 | Serrated washer | - | 1 |
| 30 | H1429 | Bracket | - | 1 |
| 31 | F4771 | Bolt (1/2 in. U.H.) | - | 2 |
| 32 | GS299 | Serrated washer | - | 2 |
| 33 | 70145 | Horn, type HF 1950 | 1 | - |
| 34 | H1304 | Bracket | 1 | - |
| 35 | F5008 | Screw (7/16 in. U.H.) | 3 | - |
| 36 | E2880 | Serrated washer | 3 | - |
| 37 | H691 | Nut | 3 | - |
| 38 | 49072 | Rectifier, type DS 506 | - | 1 |
| 39 | S1-51 | Nut | - | 1 |

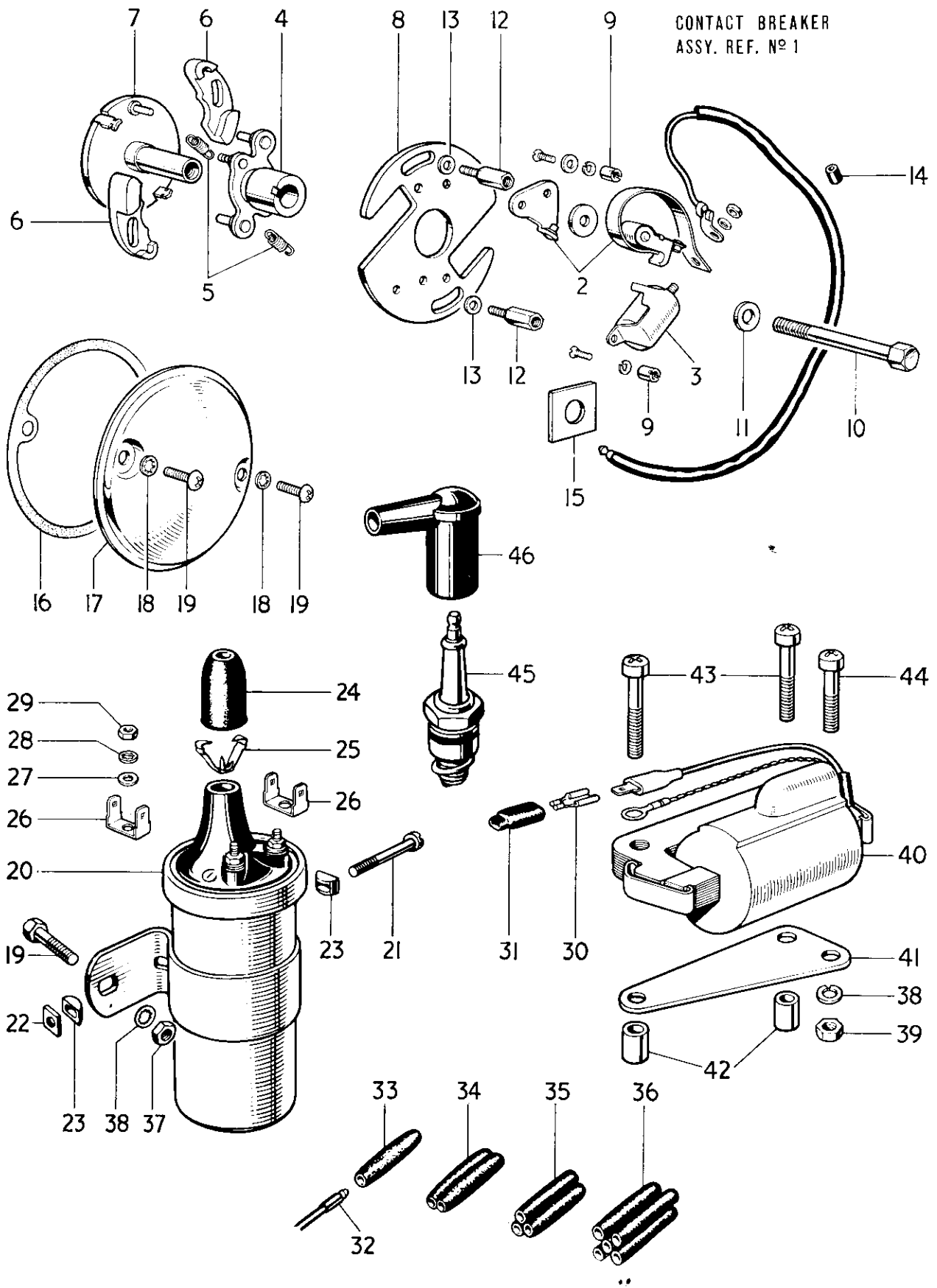


Fig. 20. CONTACT BREAKER AND IGNITION COIL

CONTACT BREAKER AND IGNITION COIL

| | | | T20SM | T20SH |
|----|----------|--|-------------|-------|
| 1 | 47621 | CONTACT BREAKER, type 4CA | - | 1 |
| 1 | 47624 | CONTACT BREAKER, type 4CA | 1 | - |
| 2 | 54415803 | Contact set | 1 | 1 |
| 3 | 425377 | Condenser | 1 | 1 |
| 4 | 54440029 | Cam | - | 1 |
| 4 | 54415053 | Cam | 1 | - |
| 5 | 425768 | Spring set | - | 1 |
| 5 | 54415640 | Spring set | 1 | - |
| 6 | 54440031 | Weight | 2 | 2 |
| 7 | 54415655 | Sleeve and action plate | - | 1 |
| 7 | 54415749 | Sleeve and action plate | 1 | - |
| 8 | 425370 | Base plate | 1 | 1 |
| 9 | 169194 | Slotted nut | 2 | 2 |
| 10 | E5451 | Bolt (2 in. U.H.) | 1 | 1 |
| 11 | S25-43 | Plain washer | 1 | 1 |
| 12 | E4747 | Pillar bolt ($\frac{1}{32}$ in. U.H.) | 2 | 2 |
| 13 | E2351 | Plain washer | 2 | 2 |
| 14 | E4750 | Grommet | 1 | 1 |
| 15 | E5050 | Cable clip | 1 | 1 |
| 16 | E5049 | Joint washer | 1 | 1 |
| 17 | E4571 | Cover | 1 | 1 |
| 18 | GS299 | Serrated washer | 2 | 2 |
| 19 | F4715 | Screw ($\frac{1}{32}$ in. U.H.) | 2 | 2 |
| 20 | 45152 | COIL, type MA.6 | - | 1 |
| 21 | 100104 | Clip screw | - | 1 |
| 22 | 169160 | Square nut | - | 1 |
| 23 | 422369 | "D" washer | - | 2 |
| 24 | 421554 | Grommet | - | 1 |
| 25 | 421863 | Clip | - | 1 |
| 26 | 54190108 | Lucar terminal | - | 2 |
| 27 | 131023 | Plain washer (E2351) | - | 2 |
| 28 | 188330 | Serrated washer (GS299) | - | 2 |
| 29 | 166043 | Nut (F3799) | - | 2 |
| 30 | 54942078 | Lucar connector | As required | |
| 31 | 54190042 | Insulating cover | As required | |
| 32 | 900269 | Snap connector terminal | As required | |
| 33 | 900288 | Single snap connector | As required | |
| 34 | 850641 | Double snap connector | As required | |
| 35 | 850844 | Triple snap connector | As required | |
| 36 | 850832 | Quintuple snap connector | As required | |
| 37 | DS57 | Bolt ($\frac{7}{16}$ in. U.H.) | - | 2 |
| 38 | E1612 | Serrated washer | 1 | 2 |
| 39 | F879 | Nut | 1 | 2 |
| 40 | 45149 | Ignition coil, type 3 ET | 1 | - |
| 41 | F5396 | Bracket | 1 | - |
| 42 | F4374 | Spacer | 2 | - |
| 43 | E3800 | Screw ($\frac{7}{8}$ in. U.H.) | 2 | - |
| 44 | E3668 | Screw ($\frac{1}{8}$ in. U.H.) | 1 | - |
| 45 | — | Sparking plug (Champion L7) | 1 | 1 |
| 46 | D297 | Plug cover and suppressor | - | 1 |
| 46 | D262 | Plug cover | 1 | - |

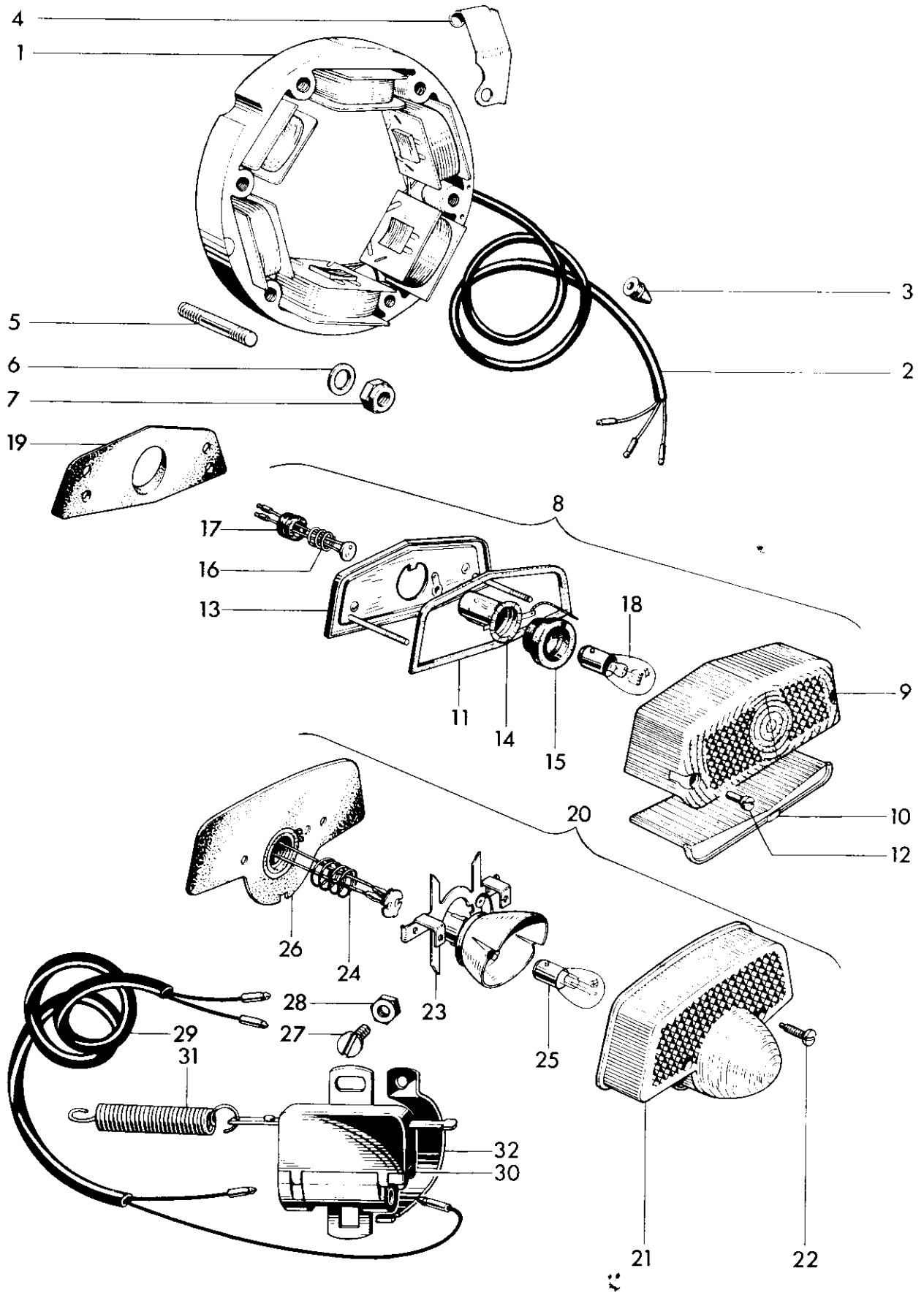


Fig. 21. STATOR, TAIL LAMP AND STOP LAMP SWITCH

STATOR, TAIL LAMP AND STOP LAMP SWITCH

| | | | T20SM | T20SH |
|----|----------|----------------------------------|-------|-------|
| 1 | 47161 | STATOR, type RM18 | - | 1 |
| 1 | 47188 | STATOR, type RM19 | 1 | - |
| 2 | 54942271 | Stator output cable | - | 1 |
| 2 | 54944251 | Stator output cable | 1 | - |
| 3 | D455 | Grommet | 1 | 1 |
| 4 | E4485 | Clip | 1 | 1 |
| 5 | E3171 | Stud (1 $\frac{5}{32}$ in. O.A.) | - | 5 |
| 5 | E3718 | Stud (1 $\frac{5}{16}$ in. O.A.) | 5 | - |
| 6 | E3302 | Plain washer | - | 4 |
| 6 | S25-13 | Plain washer | 5 | - |
| 7 | E5269 | Self-locking nut | 5 | 5 |
| 8 | 53394 | STOP AND TAIL LAMP, Type 564 | - | 1 |
| 9 | 573839 | Lens | - | 1 |
| 10 | 575200 | Window | - | 1 |
| 11 | 575208 | Lens seating gasket | - | 1 |
| 12 | 575219 | Sleeve nut | - | 2 |
| 13 | 576002 | Base assembly | - | 1 |
| 14 | 575209 | Bulbholder | - | 1 |
| 15 | 575207 | Grommet | - | 1 |
| 16 | 573828 | Contact assembly | - | 1 |
| 17 | 573825 | Grommet | - | 1 |
| 18 | 352 | Bulb (3/18W. Offset pin) | - | 1 |
| 19 | F6437 | Adaptor wedge | - | 1 |
| 20 | 53972 | STOP AND TAIL LAMP TYPE, L.679 | 1 | - |
| 21 | 54572932 | Lens | 1 | - |
| 22 | 572289 | Screw | 2 | - |
| 23 | 54574348 | Bulbholder with reflector | 1 | - |
| 24 | 573828 | Contact assembly | 1 | - |
| 25 | 384 | Bulb (6/18W. Offset pin) | 1 | - |
| 26 | 54571677 | Gasket | 1 | - |
| 27 | H687 | Bolt ($\frac{3}{8}$ in. U.H.) | 1 | 1 |
| 28 | H745 | Nut | 1 | 1 |
| 29 | 54941045 | Stop switch lead | 1 | 1 |
| 30 | 31437 | Stop lamp switch | A | A |
| 31 | 315738 | Stop lamp switch spring | 1 | 1 |
| 32 | F4114 | Switch bracket | 1 | 1 |

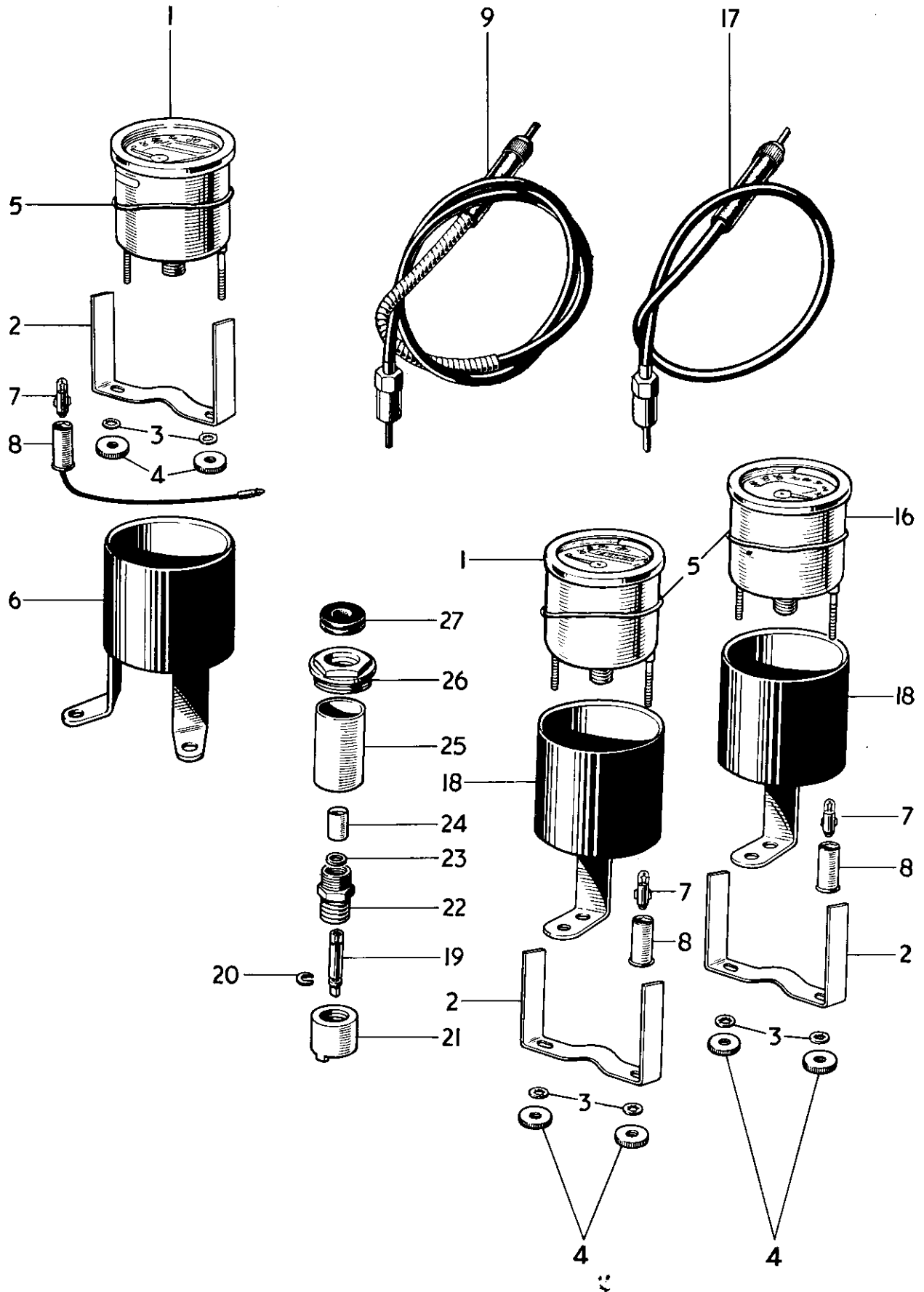


Fig. 22. SPEEDOMETER AND TACHOMETER EQUIPMENT

SPEEDOMETER AND TACHOMETER EQUIPMENT

| SPEEDOMETER EQUIPMENT ONLY | | | T20SM | T20SH |
|---|---------------|----------------------------------|-------|-------|
| 1 | SSM2001/00 | SPEEDOMETER 80 M.P.H.... | 1 | 1 |
| 1 | SSM2001/03 | SPEEDOMETER 140 K.P.H. | A | A |
| 2 | 31-647-187-01 | Fixing strap | 1 | 1 |
| 3 | 30-283-014-11 | Serrated washer | 2 | 2 |
| 4 | 30-271-014-11 | Nut | 2 | 2 |
| 5 | 31-753-720 | Rubber ring | 1 | 1 |
| 6 | H1468 | Speedometer cover | 1 | 1 |
| 7 | 282 | Bulb 0.6W BA7S | 1 | 1 |
| 8 | 54935300 | Bulbholder | 1 | 1 |
| 9 | D634 | Speedometer cable (61 ins. long) | 1 | 1 |
| TACHOMETER EQUIPMENT ONLY | | | | |
| 16 | RSM2002/00 | TACHOMETER HEAD 10,000 R.P.M. | 1 | 1 |
| 2 | 31-647-187-01 | Fixing strap | 1 | 1 |
| 3 | 30-283-014-11 | Serrated washer | 2 | 2 |
| 4 | 30-271-014-11 | Nut | 2 | 2 |
| 5 | 31-753-720 | Rubber ring | 1 | 1 |
| 6 | H1468 | Tachometer cover | 1 | 1 |
| 7 | 282 | Bulb 0.6W BA7S | 1 | 1 |
| 8 | 54935300 | Bulbholder | 1 | 1 |
| 17 | D529 | Tachometer cable | 1 | 1 |
| COMBINED SPEEDOMETER AND TACHOMETER EQUIPMENT | | | | |
| 1 | SSM2001/00 | SPEEDOMETER 80 M.P.H.... | 1 | 1 |
| 1 | SSM2001/03 | SPEEDOMETER 140 K.P.H. | A | A |
| 16 | RSM2002/00 | TACHOMETER HEAD | 1 | 1 |
| 2 | 31-647-187-01 | Fixing strap | 2 | 2 |
| 3 | 30-283-014-11 | Serrated washer | 4 | 4 |
| 4 | 30-271-014-11 | Nut | 4 | 4 |
| 5 | 31-753-720 | Rubber ring | 2 | 2 |
| 18 | H1605 | Instrument cover | 2 | 2 |
| 7 | 282 | Bulb 0.6W BA7S | 2 | 2 |
| 8 | 54935300 | Bulbholder | 2 | 2 |
| 9 | D490 | Speedometer cable | 1 | 1 |
| 17 | D529 | Tachometer cable | 1 | 1 |
| TACHOMETER DRIVE AT CRANKCASE | | | | |
| 19 | D493 | Tachometer cable spade | 1 | 1 |
| 20 | D494 | Retaining washer | 1 | 1 |
| 21 | E4692 | Adaptor for crankcase | 1 | 1 |
| 22 | E5667 | UNION | 1 | 1 |
| 23 | E4803 | "O" Ring | 1 | 1 |
| 24 | E5669 | Nylon bush | 1 | 1 |
| 25 | E4691 | Spacer | 1 | 1 |
| 26 | E4690 | Plug | 1 | 1 |
| 27 | F5332 | Grommet | 1 | 1 |