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ME/22/2

Organ

opened Aug. 10, 1945

AUG. 1945

10000/120/3449

ME/22/2

Organization (Italian) Training6244
6323

2nd Cover

opened Aug. 10, 1945 - Closed Dec 7, 1946

AUG. 1945 - DEC. 1946

Telephone:
Room 489084 Ext 380

C O P Y

LAND FORCES SUB COMM, AC (MIACTF

110 A

7 Dec 1946

The Minister for War

Subject: Try of Technicians and Specialists.

1. Under a conscript system of one year's service, certain technicians and specialists cannot be trained in the time available. For others, where time admits of their training, the residual period of their service is too short to be of use.

Furthermore the repeated training of new personnel requires many instructors and much equipment thus making the system complicated and costly.

2. Formations new, both field and static, are woefully short of efficient specialists and technicians. Frequent release of trained personnel is adding to this shortage.

Without an adequate number of efficient specialists fighting formations cannot usefully train and are certainly incapable of functioning operationally.

3. To meet this difficulty, in part Command Static installations are employing a number of civilians - civilians working side by side with soldiers is unsatisfactory on account of different rates of wages and conditions of service, a different disciplinary system etc. Civilians cannot be moved from the area of their place of residence.

4. The Administrative Services of fighting formations may be able to carry on under Static peace conditions with the help of Static installations. This could not be possible were these formations to move from their permanent locations or be required for active operations.

The difficulties of transport over long distance, the congestion of L of C and the delays entailed in using static installations would prove disasters.

5. The only solution to his problem, and this is I know fully realized by you and for which proposals have been drawn up by your War Ministry, is to include in the strength of your regular cadre sufficient long service volunteers to fill the more important posts of technicians and specialists, and to offer conditions and rates of pay to attract the best type of personnel.

6. It is understood that the economic situation of the country and lack of funds for Army Finance is proving an obstacle to the implementation of these proposals.

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6. It is understood that the economic situation of the country and lack of funds for Army Finance is proving an obstacle to the implementation of these proposals.

As an offset to this expense must be the considerable economies in personnel and above all in care and efficient repair of material which would result from implementation of these proposals.

7. It is idle to dismiss the fact that the present situation is highly unsatisfactory and is gravely affecting the present and future efficiency of the Army.

The unstinted effort of all these who have so successfully built up your Interim Army ought not to be wasted by circumstances outside their control.

Ref. 12/11/50

- 2 -

8. The Chief Commissioner, Allied Commission, wrote to the Prime Minister on 28 June last pointing out the serious situation which would arise with the release of the 1922 and 1923 classes.

9. I cannot stress too strongly that the implementation of these or similar proposals is of the greatest importance and I urge you to press energetically for the acceptance of them.

Q Distribution:

Q.003
REF.

Sgd. A.H.G. Lt.Col.
for Major General.
COC, MHA.

Sgt. A.H.G. Lt. Col.
For Major General.
GOC, MIA.

Q Distribution: Q.003
RHE.

6322

CONFIDENTIAL.

Report on visit to FABBRICA ARMI ESERCITO, TERNI, (FAET), on 28 Nov. for the purpose of viewing proposed site of SMOA.

For general layout of Area, see attached Plan.

INFORMATION.

Apparently it has been decided by the War Ministry to transfer the School for the training of Armourers & Gunfitters, (SMOA), from its present location at CIVITAVECCHIA to the Small Arms Factory at TERNI, (FAET).

It is proposed to train approx. 320 personnel, 160 as Armourers & 160 as Gunfitters. The School will apparently be contained within the boundaries of FAET for training & accommodation; & be responsible for discipline to the Military Director, FAET.

It is believed that the W.E. for the new SMOA will include 7 Officers & 16 NCO Instructors.

ACCOMMODATION. (Living.)

It is proposed to billet the 320 trainees in the large building shown on the Plan as No. 18. This is a stone floored, high roofed building of approx. 8840 sq.ft. floor space; being approx. 170 ft. x 52 ft.

It is thought that this could only be accomplished by considerable crowding.

It is believed that the troops' cookhouse will be established in position marked 'C' in top right-hand corner of Plan, with, presumably, the dining hall arrangements at 'C1'. This latter space will obviously be insufficient for 320 men.

It is intended to accommodate the Officers in the rooms marked O, 1 & 2 on the Plan, & the NCO's in Nos. 4, 5, 6 & 7. These rooms are in process of construction.

Officers' & NCO's' cookhouses & Messes will be at one end of the building marked A, A1, B1 & B; the lower end of which (not shown in Plan) is the civilian employees' dining hall. It is thought that the close proximity of these two messes is not good for discipline.

The question of accommodation for married permanent staff was raised. It seems probable that some difficulty may be experienced in finding suitable accommodation in TERNI.

ACCOMMODATION. (Training.)

It is proposed that rooms marked 20, 21 & 22 on Plan be used as SMOA administrative offices. It is considered that this is somewhat inadequate.

Rooms 8 to 17 incl: are intended to be classrooms, but in their present form are not considered suitable as such, as the partitions between rooms

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Rooms 8 to 17 incl: are intended to be classrooms, but in their present form are not considered suitable as such, as the partitions between rooms are only approx. 10 ft. high & 1 brick thick, & confusion will result when several lectures are proceeding at one time in adjoining rooms. ⁶³²⁴ It is thought, however, that this view is not shared by the Deputy Director, FAET, who accompanied the visiting party. This Officer, furthermore, appears to visualise classes of about 20 students in each room; this is considered undesirable from the training point of view, the class tending to become unwieldy for one instructor to handle. In addition, the classrooms being

Recd. 2nd

The question was asked as to where the Artillery Equipment demonstration rooms were to be established & room No; 23 was indicated. It was pointed out that this was hopelessly inadequate, whereupon an open fronted shed, shown on extreme right hand side of Plan, was suggested as being suitable. It is submitted that this shed is, in fact, in no way suitable, the front being completely open & the floor consisting partly of earth & sand & partly of broken concrete & the width is barely sufficient to accommodate the length of, say, a QF. 17-Pr.

WELFARE. Apparently Welfare amenities have been given no consideration at all, but when the point was raised, it was agreed that some suitable accommodation might be found.

GENERAL.
It is believed that a basic workshop training course of 6-weeks duration is to be given at PAET for Armourers & Gunfitters, but it is not considered that sufficient accommodation was inspected in the area allotted to SMOA for the establishment of this vital part of the SMOA training.

CONCLUSIONS.

When all building reconstruction has been completed; if adequate heating & lighting for the winter months are installed; & if classrooms are fully partitioned, it is considered that an Armourers Training School could be established at TERNUT (FAET) with beneficial results, but it is not considered suitable for the establishment of an Arty. Equipmt. Wing under the existing proposed arrangements.

The question of accommodation in TERNI for British personnel working with SMOA will also have to be considered. At present, it is believed that no British units are in TERNI. It is not considered advisable to accommodate British personnel within the boundaries of FAET.

29 NOV. 46

Major, REME,
DADME, 12 BLU.

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29 Nov. 46

Major, REME,
DADME, 12 BLU.

6320

MAPS FILMED ON
35MM ROLL

1. The above (known to the British Army as the 400th) was in the past attached to the school of artillery at Aldershot and was rather overhauled by the school. With the separation of the 400th from the school of artillery it was moved that 400th would take on a new lease of life. However, it is learned that the 400th is to be moved to Larkhill where its proposed site was visited on 28th November.

2. But the proposed site seems worse than the present one for the following reasons:-

The living accommodation for the students seems too small.

There seems to be no plan for accommodation of the families of the school staff.

There are no welfare facilities other than civilian ones in the town of Larkhill.

The number of circumstances inadequate and those that exist are not properly divided off so that the voice of the instructor will interfere with the voice of the instructor in the next classroom. No provision has been made for model rooms for artillery, equipment or for demonstration rooms where in stripped barriers, recuperators, breech mechanisms etc. can be displayed. In addition there is no sufficient covered accommodation for the guns, artillery equipment.

The provision has been made for carrying out a pre-selective course of elementary fitting and benchmark which is considered very much in view of the uncertain quality of the intake.

6344

3. It is meeting with general approval of the various General Artillery schools and the above facilities were discussed and the possibility of delaying the move of 400th pending the restoration of the above facilities was agreed.

4. General approval was given that the welfare of the students of the 400th is a matter of the highest importance and that the new location and site should be a joint effort by the Army, Navy and Air Force. It is suggested that the 400th should be moved to an early date to permit work on the new accommodation plan to start.

1. *Ref. 1*

were possible.

5. May the AMZ please be asked to delay the move of SAOA until their new site (at Ferni or elsewhere) is ready?

GP

Lt. Col.
A. D. H. S.

AD/MS

AB/42

6313

Ms. Hol.
A.D.S.S.

AP

SUBJECT :- Training.

Land Forces Sub Comm. A.C.
M.A.L.A.
R.O.M.E.
22/2/48/AT

23 Nov. '46

TO :- D.A.D.M.A. 12 B.L.U.

1. Consequent upon the changes in the control of training introduced by this H.A. letter PRB/2 of 14 Nov. '46 it is desired to indicate certain points on which information is required.
- These are :-
- (a) important deficiencies in instructional books, wall diagrams and sectioned models,
 - (b) important omissions from syllabi,
 - (c) the standard of examinations or "passing out" tests and the arrangements under which these are held,
 - (d) arrangements for training Italian instructors,
 - (e) the adequacy of the accommodation for instructional and living purposes.

2. Please investigate the situation first at the M.A.L.A. and report on the above points indicating what action is being taken by the Italian Army to equip themselves with the necessary material.

In due course a similar report will be needed for the A.A.V.O. when its future becomes known.

Your report should include recommendations for initiating any courses you consider necessary but not yet proposed.

AB/ma

AB
Lt. Col.
A.D.M.A.

60

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AB/ma

AB
Lt. Col.
A.D.M.H.

60.2

Copy to :- "COO" (12 H.L.U.
"CO" (128)
"C"

file

23 Nov 42
Hepp

SUBJECT :- Training - Artillery and Gun Fitters.

Land Forces and Comm. A.C.
M.M.I.A. H O B S.
20/11/48
21 Nov. '48

TO :- Ministry of War.

Ref. our 124/22/4/13 of 31 October.

May we now receive your comments on the above letter and be advised of any decision you have reached on the points mentioned in paras 5, 6, 7, 8 and 9 thereof.

May we please be informed of the location of the school, the date of commencement of courses, and whether or not you propose to hold a pre-selective course of eight weeks at the commencement of the instruction given.

At the risk of repetition the importance of training sufficient Italian instructors on British weapons is emphasised.

AB
for
Major General,
HQ, M.M.I.A.

AB/mg

Copy to :- "G" (175)
"Q"
DADME (2 B.L.U.)

File

11. Regd
21 Nov 48
[Signature]

Rem 0

16

Subject :- Training - Italian O.R.s

245
RECEIVED 23 NOV 1946

SC REME
7 British Liaison Unit,
c/o 6 B.L.U.
Tele 217 Area Ex 7.

To :- ADME
Land Forces Sub-Comm. AC.,
(M.M.I.A.) ROME

Ref. EME/11/7
21 Nov. 46

1. Ref. your ME/22/10 dated 28 Sept. 46 the details regarding the Training Programme given in the above letter were brought to the attention of HQ. "Folgore" Inf. Div. and we enclose a copy of the Divisional Commander letter to the Ministry of War on this subject.
2. The personnel situation in the "Folgore" M.E. Units is already extremely serious and, as pointed out in the G.O.C.'s letter, will, before the end of the year, become "critical".

A. Nelson Cpt. SC REME

Copy to :- REME 7 B.L.U. FLORENCE

Recd.
25 Nov 46
6310
M.T.

TRANSLATIONHQ. "FOLGORE" DIVISION

Florence, 12 Nov. 46

Sn. 6870/Aut.Subject :- Situation of SpecialistsTo :- Ministry of War
Artillery and Mot. Gen Directorate - ROMECopy to :- R.E.M.E. - 7 B.I.U. - Florence
(Ref. EME/11A/4 dated 5 Oct. 46)

Your Ministry already knows the shortage of specialists concerning both quantity and quality.

Such situation will become worse with the discharge of kept personnel which will start on the 15th inst.

With such an action the Mech. W/Shops of the Div. will lose all their military specialists excluding about ten workers re-enlisted as by art. 46 of "Istruzione sul servizio automobilistico - 2nd Vol."

Your General Directorate is required to considerate the really critical situation of military specialists personnel of the Div. at the moment of assignment of personnel who is performing specialist course in the "Motorisation School" and in the School Centre of Motorisation, courses which will end between the 5th and the 10th Dec. 46.

Once again I bring up to your Directorate the necessity of laying down a new recruitment and pay of military specialist personnel of the army in order to get the repair branch at a good standard.

The General Commanding
G. PIALORSI

6309

Telephone:
Rome 489081 Ext 267

LAND FORCES SUB COM AC, (MMIA) CMF

TRG/2

14 Nov 46

LIST 'B'

Subject: Control of Training

Ref TRG/2 dated 14 Nov 46 para 8 S & T. Under

" Motorisation D and M School" add Commissariato Trg Centre.

LWM/rr

Internal:

BCS
A/Q
RE
SIGS
S & T
ORD
REME
CC.RR.

[Signature]
for Brigadier,
General Staff, MMIA.

6308
Regd.
15 Nov. 1946
[Signature]

Telephone:

Rome, 489081 Ext 389

LAND FORCES SUB COM AC (MMIA) CMF

TRG/2

11 Nov 46

REME

see (15)

LIST 'B'

see 18

Subject: Control and Inspection of Trg

1. The attached instruction "Control of Training" is circulated to explain how Training will w.e.f. today's date be inspected and controlled in this Mission.
2. For purposes of co-ordination GSO I 12 BLU will deal through MMIA when planning Training visits to Units in other BLU Territory.

WLM/vr

Brigadier,
General Staff, MMIA.

Internal: BGS
A/Q
RE
Sigs
S & T
Ord

M J Hope

14

LIST 'B'

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WLM/r

Brigadier,
General Staff, MMIA.

Internal: BGS
A/Q
RE
Sigs
S & T
Ord
RIME
CC.RR.

6303

*Copy -
No. 11*

Telephone
Rome, 489084 Ext 389

LAND FORCES SUB-COM, AG (MMIA) CMF

TRG/16

List 'B':

Nov 46

CONTROL OF TRAINING

1. The disbandment of the Italian HQ Central Military Schools and the changed system of control of Schools now adopted by the Ministry of War imposes the need to change our own system at L.M.I.A. and in the functions of 12 BIJ.

2. (a) Schools are now controlled (on the Italian side) by the various inspectorates of the S.M.E.

- Certain inspectorates control more than one School.
- Certain other Schools are controlled directly by the Training Branch of S.M.E.

(b) Under present arrangements control of Schools is vested, as below.

- Infantry Schools	Inspectorate of Infantry
- F.T. School	" "
- C.M.P. School	" "
- Armoured Car School	" "
- Welfare and Services School	" "
- Engineering School	Inspectorate Engineers
- Signal Schools	" "
- Motor Repair Training Centre	" Motorisation
- D. and M. School	" "
- Artillery Schools	" of Artillery
- Artillery Repair Training Centre	" "
- Cadet Academy	Stato Maggiore Esercito
- Staff College (When formed)	" "
- Cooperation School	" "

3. (a) It is thought right and proper that Heads of Arms and Services in M.M.I.A. should (subject to general Policy decisions by G Branch) to a greater extent associate themselves with the Training in Units and Schools for their own Arm or Service.

(b) Their responsibility would lie mainly in:

- (i) Decisions re Training needed to implement agreed Policy, both at Schools and in Units.
- (ii) Advice re establishments of Schools and general organisation of Training.
- (iii) Review of Syllabi of courses at Schools.
- (iv) General supervision to ensure that all Training activity within the Arm of the Service follows in the main, British practice.

4. All technical aspects of Training will thus become the

Training Branch of S.M.B.

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- Motor Repair Training Centre	" Motorisation
- D. and M. School	" "
- Artillery Schools	" of Artillery
- Artillery Repair Training Centre	" "
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4. All Technical aspects of Training will thus become the responsibility of Heads of Arms and Services.
They will have direct call on the Instructors 12 BLU should they require their services either as Instructors or advisers at Schools, for as Inspectors of Training in the Field, subject to the provisions of Para 10.

...../2

- 2 -

5. The duties of the 12 BLU will be:

(a) GSOI

- (i) Inspection and advice as in para 3 (above) for the Staff College, (when formed) and the Cadet Academy.
- (ii) Co-ordination of work of Advisers, organisation of teams of advisers to visit units and formations.

(b) Instructors.

(i) On the British side

- To inspect Training in Units and Schools and to advise the Head of MIA department concerned on his findings.
- To implement MIA Training Policy in his relations with the Italian Army.

(ii) On the Italian side

- To advise Schools as directed by the MIA Head of department.

6. Direct liaison with Italian Ministry of War will be exercised as follows:

(a) General Staff. G Trg to S.M.E.

(b) Arms and Service Heads to Inspectorate S.M.E.

No direct liaison will exist between Instructors 12 LIU and Inspectorates S.M.E. The only channels of communication will be either

- (a) Through departmental heads to Inspectorate S.M.E.
- (b) Through G.S.O.I 12 BLU through G channels to S.M.E. Training Branch.

8. Schools would be controlled by MIA branches, Arms and Services as below:

G Trg MIA

Infantry School
P.T. School
C.M.P. School
Armoured Car School
Artillery Schools (excl. A.R.T.O.)
Staff College
Cadet Academy

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7. No direct liaison will exist between Inspectors 12 LUJ and Inspectorates S.M.E. The only channels of communication will be either

(c) Through departmental heads to Inspectorate S.M.E.

(b) Through G.S.O.I 12 BLU through G channels to S.M.E. Training Branch.

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G Trg MMIA

Infantry School
P.T. School
C.M.P. School
Armoured Car School
Artillery Schools (excl. A.R.T.C.)
Staff College
Cadet Academy
Senior Officers School (Co-op)
Services and Welfare School

.....62/32

Eng

Engineer Schools

Sigs

Signal Schools

S & T

Motorisation D. and M. School

'COMMISSARIATO TRG. CENTRE'

REMEM.R.T.C.
A.R.N.C.

9. The attached diagram shows clearly the proposals put forward in this letter.

10. The above instructions do not in any way limit or supersede the present responsibilities of BLU's in regard to unit and formation training in their own Territorial Commands.

They are intended, however, to increase the responsibility of the Arms and Service advisers in 12 BLU in regard to visiting and advising other BLU's in connection with technical training on matters in which BLU's may not be thoroughly "au fait" (in Art., Engineers, Sigs and Services where there are not represented on the BLU Establishment).

WIM/rr

Internal: ECS
A/C
RE

S & T

Motorisation D. and M. School
'COMMISSARIATO TRG. CENTRE'

REME

M.R.T.C.
A.R.L.C.

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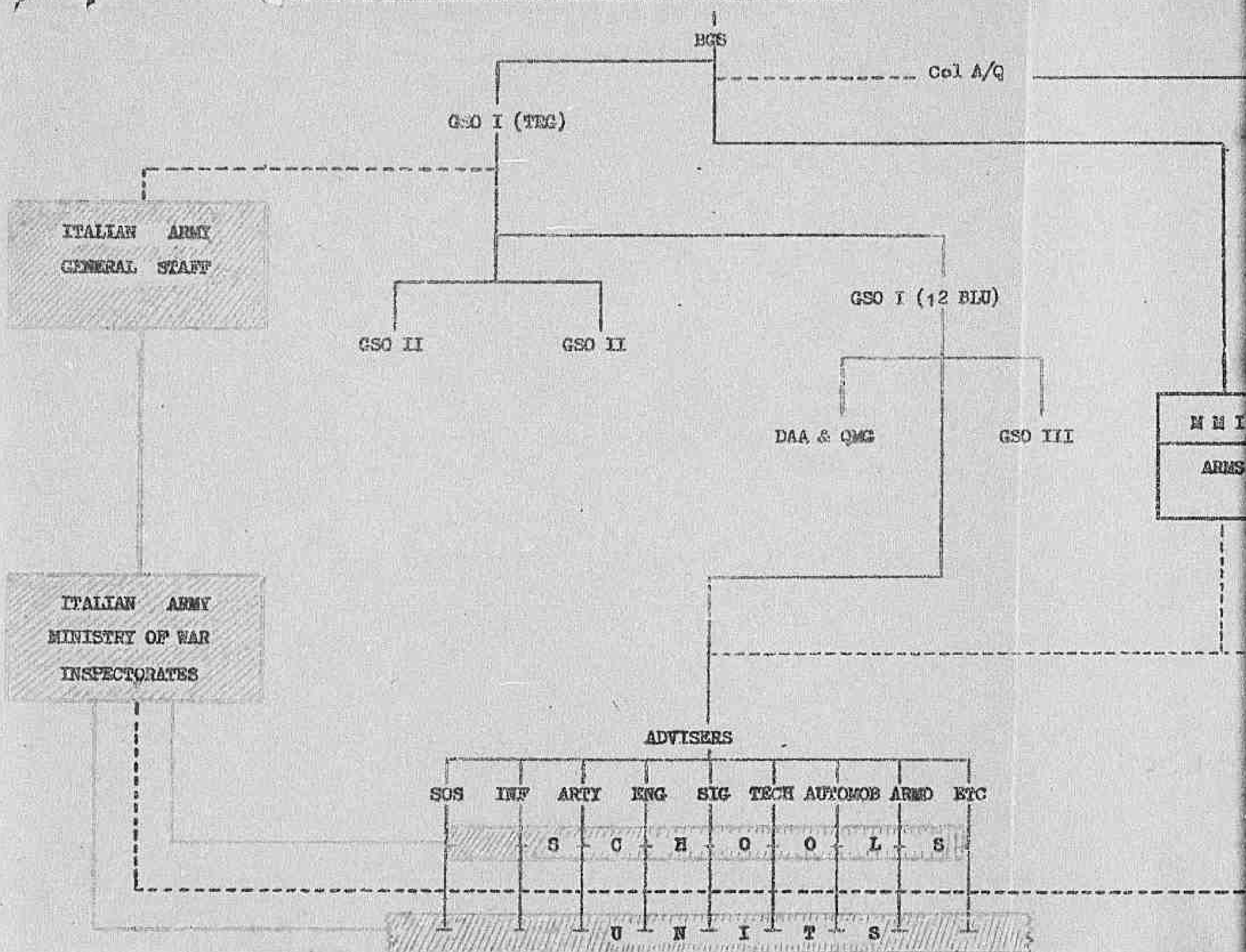
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WLM/rr

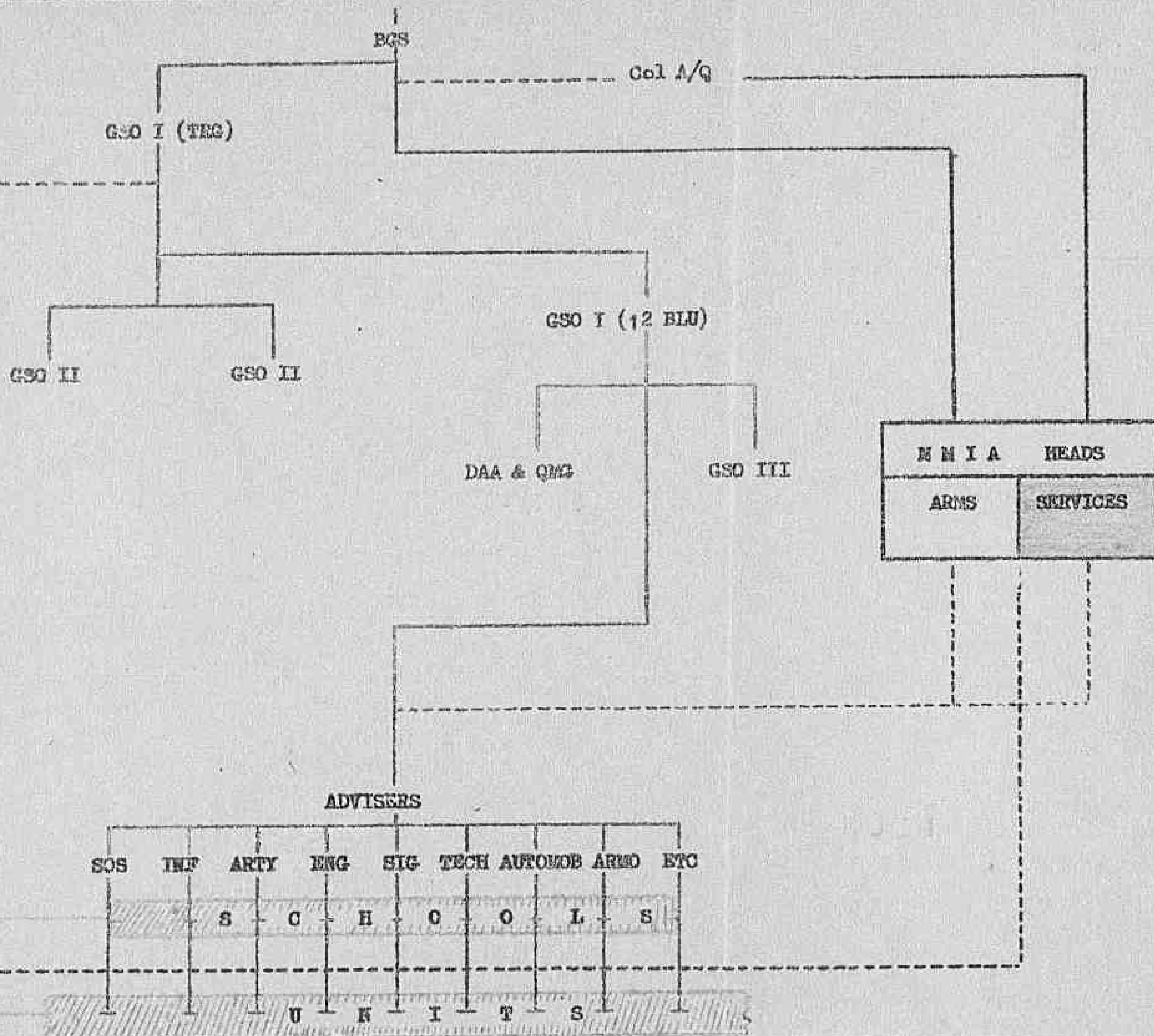
Internal: BGS
A/Q
RS
SIGS
S & T
Ord
REME
CC.RR.

6304

TRAINING AND INSPECTORATE F TRAINING M M I A



TRAINING AND INSPECTORATE P TRAINING M M I A



SUBJECT :- Training - Armourers and Gun Fitters.

Land Forces Sub Comm. A.C.
M.A.L.A.
R.O.M.E.
MB/24/4/13

3/ Oct. '46.

TO :- Ministry of War.

1. It is understood that the S.M.O.A. at Civiltavecchia will be moved from there towards the end of this year.
2. It is further understood that you favour setting up this school (possibly with alterations to War Establishment) close to Rome if suitable accommodation can be found; but that since you expect difficulty in finding such accommodation, and also that, if found, you do not think it possible for the school to move and be ready to receive students in January, you consider it advisable to transfer the training of the above students elsewhere as a temporary expedient.
3. Should you desire to utilize the Arms Factory at Terni and the Arsenal at Piacenza for the training of those students this M.A. feels that you would be well advised to hold a pre-selective course to choose those students suitable for training as armourers, and those for training as gun fitters. In addition this course will enable you to discover those who have little likelihood of being trained successfully as either of the above.
4. It is hoped that the training subsequent to this pre-selective course will be organised in the normal way into lessons comprising the theory of the weapon followed by practical demonstration under qualified instructors. After the students have been properly instructed it will of course be excellent for them to acquire the benefit of the knowledge of experienced armourers and gun fitters, but it is understood that at both the above establishments there are few workmen thoroughly familiar with British Artillery or small arms. In this connection you would be well advised to utilise the services of the trained instructors you already possess at the S.M.O.A. completed if possible up to War Establishment.
5. It is pointed out that considerable quantities of

close to Rome if suitable accommodation can be found; but that since you expect difficulty in finding such accommodation, and also that, if found, you do not think it possible for the school to move and be ready to receive students in January, you consider it advisable to transfer the training of the above students elsewhere as a temporary expedient.

3. Should you desire to utilize the Arms Factory at Terni and the Arsenal at Vincenza for the training of those students this A.C. feels that you would be well advised to hold a pre-selective course to choose those students suitable for training as armourers, and those for training as gun fitters. In addition this course will enable you to discover those who have little likelihood of being trained successfully as either of the above.

4. It is hoped that the training subsequent to this pre-selective course will be organised in the normal way into lessons comprising the theory of the weapon followed by practical demonstration under qualified instructors. After the students have been properly instructed it will of course be excellent for them to acquire the benefit of the knowledge of experienced armourers and gun fitters, but it is understood that at both the above establishments there are few workmen thoroughly familiar with British Artillery or small arms.

In this connection you would be well advised to utilise the services of the trained instructors you already possess at the S.M.O.A. completed if possible up to war establishment.

6302

5. It is pointed out that considerable quantities of equipment such as machines, vices, tools, gauges, models etc. will be required in addition to an adequate supply of arms for instructional purposes. The aim should be to provide each student with a sample of the weapon he is being taught in the case of small arms, and, in the case of guns, to have classes not exceeding eight to each gun.

With careful arrangement of lecture programmes an inordinate quantity of arms will not be needed.

6. It is recommended that you treat as very urgent

Ref. 46
Ref. 1.

the training of instructors for them and please should
you decide to use these establishments.

7. How we please have copies of the syllabus
propose to use in the instruction of the students?

8. May we please be informed which branch of the
Ministry of War will be responsible for inspecting the
standard of training and the methods of instruction used?

9. Will you please confirm that your intention is
dispersing the training of these students in that such
dispersion is only a temporary measure and that you intend
to set up in the near future a school where instruction
can be more closely controlled?

AB

A. BRIGHT, ESQ. COL.
Assistant Director of Mechanical Engineering.
D.S.O.

AB/ma

Copies to :-

"3" (TFS) - 16/3

"2"

Letter 12 B.I.O. - to note particularly para 6

discipline is only a temporary measure and that you intend to set up in the near future a school where instruction can be more closely controlled?

DB

A. BROWN, JR., VUL.
Assistant Director of Technical Engineering
A.A.A.A.

AB/AM

Copies to 1-

"C" (TRH) - 4/6/3
"D"

WOMAN 1- B.L.O. - to note particularly para 6

6301

File

COMANDO SCUOLE CENTRALI MILITARITraining Office

ME/22

No 01/10003/Add.Ftr. di Brt.

Rome 15 Oct. 1946

(12)

Subj. :- S.M.O.A.

To the 12 B.L.U. (Col. Gibbons)

=====

Enclosed please find a copy of a report about the conference of the
9th October last.

CHIEF OF TRAINING OFFICE
(Te.Col. Ugo SIVO)

E300

Reg 23/9/46

COMANDO SCUOLE CENTRALI MILITARITraining OfficeCONFERENCE OF THE 9 OCTOBER 1946 BY THE CENT. MILIT. SCHOOLS H.Q.Attended By :

General	RONCO	-	Comm. of the Central Milit. Schools.
Lt.Colonel	GIBBONS	-	" of the 12 B.L.U.
Lt.Colonel	SIVO	-	Chief of the S.C.M. Training Office.
Lt.Colonel	DE PALMA	-	Inspector of Artillery.
Major	SAMSON	-	12 B.L.U.
"	CORRADO	-	Chief of Arty. Section of C.S.C.M.
Captain	IACCHETTI	-	For the Arty. School Comm.
"	VALENTINI	-	Arty. Fitters School.
L.Ten.	BORGOMANERO	-	Interpreter.

Object of the conference : to discuss about the convenience of separating the Mech. and Arty. Fitters Troup from the Arty. School and to decide the future training tasks of the S.M.O.A.

=====

Colonel Gibbons suggests that no discussion about the above matter is possible until the opinion of the Ministry of War is known.

Colonel De Palma communicates that the S.M.E. and the Arty. Inspector agree on the following points:-

- Complete separation of S.M.O.A. from the Arty. School.
- Training of the Arty. Fitters and of the Artificers by the Arty. Direct. of Rome.
- Training of the Armourers by the Fabbrica d'Armi di Terni.
- That the S.M.O.A. should depend directly from the Dir. Gen. di Artiglieria.

Everybody agrees that the S.M.O.A. should depend from the Dir. Gen. di Artiglieria.

Gen. Ronco is against the training of the Armourers Courses by the Fabbrica d'Armi di Terni because, owing to the fact that all the personnel of the above Fabbrica d'Armi are civilians, the Recruits only one month after their permanence with C.A.Rs would find themselves again among civilians and would loose in that way all their military training.

It would be therefore much more convenient that the training should be separate and that the Recruits should depend directly from one of the Units of the Army.

Colonel Gibbons agrees with Gen. Ronco.

It is moreover observed that if the training of the Armourers and that of the Arty. Fitters should be carried on in two different places a double number of Instructors would be required especially as regards the first part of the instruction dealing with Workshop work that is the same for both Courses.

It is anyhow understood that the S.M.O.A. will depend directly from the Comando Scuole Centrali until different tasks will be assigned to the latter.

Col. Gibbons suggests that all the Recruits to be specialized should attend first a Course of general mechanics after which they could be sorted according to their aptitude and appointed to follow the Armourers Course or the Arty. Fitters one. The students assigned to the latter should be then divided in two Courses, one for Field Arty. Fitters and one for anti-aircraft Fitters.

- 2 -

Major Sampson specifies that according to the experience the Courses should have the following duration :

- Preliminary Workshop Training for both specialisations : 8 weeks.
- Specialisation Courses for both specialisations ; 4 weeks.

Colonel's Gibbens suggestion is accepted by everybody and it is also agreed that the preliminary Workshops Courses be run by the SMOA under the direct supervision of the Central Milit. Schools.

Colonel's De Palma opinion is that it will be difficult to find a suitable accommodation for the SMOA in the proximity of the Arms and Arty. Repair Workshops but anyhow the question will be submitted to the S.M.E.

Gen. Romeo in view of the greater importance of the Arty. Fitters Course suggests that the same should have a longer duration than the Armourers one.

At the end of the conference, Major Sampson specifies the point of view of the 12 B.L.U. about the above arguments :

- Necessity that the Ministry of War decides the number of Recruits to be trained annually as Armourers, Arty Fitters and Artificers and adequates the W.Es accordingly.
- Necessity that a preliminary Workshops Course of 8 weeks be run for all the Recruits before sorting them for attending a Specialist Course as Armourers or Arty Fitters. During the above period it will be possible to the Recruits to become 3rd Class Artisans.
- Necessity for the SMOA to be located in one single place for the above training.
- Considering that in the British Army a period of several years is foreseen for the preparation of the Artificers it is suggested that a decision be taken only after a period of practical experience.
- It is advisable that at the end of each Course the Students should visit one of the Arsenal.
- It is advisable that at the end of each Course the best classified students should be sent for a further period of one month to an Arsenal for perfectioning.
- Before starting the Courses according to the above suggestions it is necessary that a convenient quantity of training materials, tools, charts and wooden models should be granted to the School. For this object most of the training materials could be supplied by the "Scuola Tecnica Industriale" of Rome as it is already done for the Motorisation School at Cecchignola.

=====

NOTES ON
VISIT TO R.E.M.E. TRAINING CENTRE
ARMORFIELD
AUGUST 1946.

R.E.M.E. Trg. Centre
Vehicle Wing 12, 13, and 14 Aug.

12 Aug.

1. Check that theory and practical instruction on components are given consecutively.
2. Ratio of instructors to students is 8 to 1 for practical work (not counting asst. instructors, clerks and edm. personnel.)

3. Courses of interest :-

Officers F.A.E.
Arm. Art. (veh).
Ldg. Art. S/Sgt.
Veh. Mech.

4. Layout of Wing :-

Classrooms (including models.)
Workshops.

Classrooms average 15 ft x 60 ft (10 students.)
Workshops average 30 ft x 90 ft.

5. Classrooms are allocated as under :-

Motorcycles.
Officers F.A.E.
Brakes and steering.
Carburettors theory.
Carburettors (practical).
Transmission and rear axles.
Engines (D.M. theory).
Engines (Veh. Mech. theory.)
Clutches and gearbox theory.

Electrical (2)
Test system.

6. Workshops are allocated as under :-

Motorcycles.
Workshop practice.

ME/22 (11)

2. Ratio of instructors to students is 3 to 1 for practical work (not counting asst. instructors, clerks and adm. personnel.)

3. Courses of interest :-

Officers F.A.E.
Arm. Art. (veh).
Idg. Art. S/Sgt.
Veh. Mech.

4. Layout of Wing :-

Classrooms (including models.)

Workshops.

Classrooms average 15 ft x 60 ft (10 students.)

Workshops average 30 ft x 90 ft.

5. Classrooms are allocated as under :-

Motorcycles.	Electrical (2)
Officers F.A.E.	Test system
Brakes and steering.	
Carburettors theory.	
Carburettors (practical).	
Transmission and rear axles.	
Engines (D.M. theory).	
Engines (Veh. Mech. theory.)	
Clutches and gearbox theory.	

6. Workshops are allocated as under :-

Motorcycles.	6200
Workshop practice.	
Engines.	
Clutches and gearbox.	
Transmission and rear axles.	
Major assemblies removal.	
Brakes and steering.	
Examination of vehicles and inspection	
Running engines (fault finding)	
Stripped chassis (brakes, steering, P axles.)	

For 207 students and 38 instructors.

2/.....

Reg 1/10/46

- 2 -

7. When courses are numerous (as occurs with existing weekly intakes) very careful planning of timetables is needed to avoid bottlenecks caused by two or more classes requiring the same room or workshop simultaneously.

A "Progress Board" helps enormously and should show the number of each course, number of students, no of classes comprising the course, type of instruction being given that week (electrical, brakes, carburettors, etc.)

8. A "Quiz" each week. Results tabulated to show up any question answered badly by the whole class. Then make instructor explain that question more clearly.

Instructors V.M.

Benchwork
Carburation
Engines
Schoolwork
Motorcycles
Tyres
Fault finding
Task System
Front axles and steering
Brakes
Electrics
Rear axles and springs
Clutches and gearboxes
Revision
Officers courses

Instructors D.M.

Power Units
Electrics
Transmission
Practical Revision
Benches
Potential Instructors

Course	No Trs	Date Com	No of Wks	July		August			Sent.
				24	31	7	14	21	28
V.M. 21	9	4-4	12						
22	10	2-5	8	R	S				
23	19	16-5	7	C	R	S			
V.M. 4	9	16-5				R			
6	15	30-5				C	L	R	
7	16	12-6				T	M	L	R

Instructors V.M.

Benchwork
Carburation
Engines
Schoolwork
Motorcycles
Tyres
Fault finding
Task System
Front axles and steering
Brakes
Electrics
Rear axles and springs
Clutches and gearboxes
Revision
Officers courses

Instructors D.M.

Power Units
Electrics
Transmission
Practical Revision
Benches
Potential Instructors

Course	No Trs	Date Com	No of Wks	July		August				Sent.
				24	31	7	14	21	28	
V.M. 21	9	4-4	12							
22	10	2-5	8	R	S					
23	19	16-5	7	C	R	S				
V.M. 4	9	16-5				R				
6	15	30-5				C	L	R	L	
7	16	12-6				T	M	C		R

Key.

B/C Schoolwork
E Engines
F Electrical
G Carburettor
H/S Clutch, gearbox, R axle
K/L Steering, brakes

O/M M/cycles, tyres
P1/P2 Fault finding Task System
D/N Benchwork
R Major Assv removal
C C I Engines
S Revision exams

3/.....

STAGHOUND

1st - both bands applied
2nd - front clutch rear band
3rd - rear clutch front band
4th - both clutches
Rev - front band applied

Front band applied by oil pressure released by spring pressure.

Rear band - reverse of above.

Clutches applied by oil pressure.

Large governor weight operates change 1st to 2nd gears.

Small governor weight operates remainder.

Compensator pressure needed to boost servo forces at low speed on full throttle - otherwise band slip occurs.

Make sure unions to oil cooler are air tight.

Adjustment - front band :-

7 ft lbs torque and 8 full turns back on adjusting screw.

Adjustment - rear band :-

Apply chocks ~~add~~ wheels ~~back~~, put all gears in neutral, engine 1000 r. p. m., 5 ft lbs torque and 2 full turns back on adjusting screw.

Make sure adjusting screws are easy to turn by fingers.

Oil pressure - pump delivery - to be between 65 and 95 lbs depending on engine speed (not idling.)

Rear band - reverse of above.

Clutches applied by oil pressure.

Large governor weight operates change 1st to 2nd gears.

Small governor weight operates remainder.

Compressor pressure needed to boost servo forces at low speed on full throttle - otherwise band slip occurs.

Make sure unions to oil cooler are air tight.

Adjustment - front band :-

7 ft lbs torque and 8 full turns back on adjusting screw.

Adjustment - rear band :-

Apply chocks ~~and~~ wheels ~~back~~. Put all gears in neutral. engine 1000 r. p. m.. 5 ft lbs torque and 2 full turns back on adjusting screw.

Make sure adjusting screws are easy to turn by fingers.

Oil pressure - pump delivery - to be between 65 and 95 lbs depending on engine speed (not idling.)

END

4/.....

- 4 -

Armt.

Carriages Wk/shops.

Lecture

Arm. Arts. (Veh. and Fd.)

Prelim fitting and benchwork - fortnight.
Workshop. 35 ft x 70 ft - 50 students.

{ not including machine tools which }
{ include seven of each type of }
{ machine tools. }

Programme - Arm. Arts.

Fortnight - interview and bench test
one week - maths and m/c drg
3 weeks - welding, b/smithing, tinsmithing
2 weeks - machining, all types
1 week - bar exam
2 weeks - optics (Fd) RE eqpt
2 weeks - basic electricity
12 weeks - guns and carriages (Fd)
Arborfield (Veh)

Arm. Arts. (Fd) - 24 students

gun model demonstration shop (not workshop) 35 ft x 70 ft.
6 defective barrels
8 guns c/w Breech mech
No carriages

Recoil system room (20 students) 20 ft x 50 ft
Duplicated models (stripped and sectioned)

Bofors Film strip

Mil. Trg. Film strip - OOF 40 m/m with No FS22 - 29.
"A" type loader.

Carriage shop 200 ft x 50 ft 12 types of equipment
Armt. wing handling 90 students in gun shops and carriages (11 courses)

Armourers.

Huts 60 x 20

Arms, Ammunition and Demonstration combined

Programme - Arm. Arts.

Fortnight - interview and bench test
one week - maths and m/c drg
3 weeks - welding, b/smithing, tinsmithing
2 weeks - machining, all types
1 week - bar exam
2 weeks - optics (Fd) RE cont
2 weeks - basic electricity
12 weeks - guns and carriages (Fd)
Arborfield (Veh)

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gun model demonstration shop (not workshop) 35 ft x 70 ft.
6 defective barrels
8 guns c/w Breech mech
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"A" type loader.

Carriage shop 200 ft x 50 ft 12 types of equipment
Armt. wing handling 90 students in gun shops and carriages (11 courses)

Armourers.

Huts 60 x 20

Much of work on S.A. is lecture and demonstration combined.
Each hut holds 20 students. One instructor - 10 students.

6294

One hut to :- Rifles Elem

:- Rifles Practical

:- Pistols

:- Bren

:- Cvcles

:- Carbines

Two huts for :- Mortars (2" and 3" ~~PIAT~~ PIAT)

5/.....

Two huts for :- BESA 7.92 (incl. mtg.)
 Two huts " :- 6 pdr (one gun to 5 students)
 Two huts " :- Revision on all eqpts)
 + exam rooms.

N.B. Quiz at end of each week. Asst. instructor for classes of 14 or over.

Armrs.

Production work-one hut - 10 students
 Testing range - 100 ft and enfield rest and M.G. emplacement for Bren and BESA (with safety stops for traverse and elevation.)

Nº of courses in progress - 18

Nº of students -176

N.B. Parts list
 Illustrated Identification list C.O.O.

C O D (Technical Branch) Weedon.

Handbooks

Supplements for Armrs C 2 C.

Testing range - 100 ft and enfield rest and M.G. emplacement
for Bren and BESA (with safety stops for traverse and elevation.)

N° of courses in progress - 18
N° of students -176

N.B. Parts list
Illustrated Identification list C.O.O.

C O D (Technical Branch) Weedon.

Handbooks

Supplements for Arms C 2 C.

6293

10

SUBJECT :- Trainer - Italian Gns.

Land Forces Sub Com. A.C.
S.I.L.A. R.C.B.S.

12/2/10

28 Oct '66

see 16

TO :- S.I.L.A. 1, 3, 4, 5, 6, 7, 8, 9

1. It is reported that the following are under instruction under the Central Military Schools R.C.B.S.

2. No doubt allocation of these personnel to formations will depend upon the action taken by Divisional Comds, etc. to obtain them as reinforcements.

3. Details of personnel are given on attached list.

A. Blunt

A. BLUNT, Lt. Col.
Assistant Director of Technical Engineering.
S.I.L.A.

AE/eb

File

Ref 28/9/46

(a) School.	(b) Course	(c) Students			(d) Duration.	(e) Begins.	(f) Ends	
		Offrs	NCOs.	Troops				
Motorisation and M.R.T.C.	Turners	-	-	29	6 months	5 June	5 Dec	) Instruc School
	Blacksmiths	-	-	23	6 months	do	do	
	Carpenters	-	-	23	6 months	do	do	
	Welders	-	-	27	6 months	do	do	
	Coach Trimmers	-	-	1	6 months	do	do	) Instruc Centr
	Sheet metal workers	-	-	6	6 months	do	do	
	Radiator repairers	-	-	1	6 months	do	do	
	Testers	-	-	1	6 months	do	do	
	Printers	-	-	1	6 months	do	do	
	Hydraulic brake spec.	-	-	1	6 months	do	do	
	Fault Rectifier	-	-	1	6 months	do	do	
	Tyre Repairers	-	-	5	6 months	do	do	
	Painters	-	-	6	6 months	do	do	
	D. and M. Course	-	-	1000	12 weeks	25 Sept	18 Dec	) Instruc Rome.
	D. and M. Course	50	-	-	6 months	1 Oct	31 Mar 47	
	Fitters Vehicle	-	-	101	6 months	1 Aug	1 Feb 47	
	Engine Specialist	-	-	114	6 months	do	do	
	Chassis Specialist	-	-	49	6 months	do	do	
	Electricians	-	-	18	6 months	do	do	
	Injectors pump spec	-	-	1	6 months	do	do	
M.R.T.C.	Motor Assemblers	-	-	71	6 months	1 July	31 Jan 47	) New Cou Commenc
	Engine Fitters	-	-	80	6 months	1 July	do	
Scuola di Specializzati Riparazione.	Fitters	-	-	74	6 months	do	do	
	Electricians	-	-	29	6 months	do	do	
	Diesel Eqpt.	-	-	19	6 months	do	do	
	Vehicle Mechs.	-	-	229	6 months	do	do	
M.R.T.C. Industrial School Duc d'Aosta	Turners	-	-	28	6 months	3 July	31 Dec.	) w Cou
	Blacksmiths	-	-	23	4 months	3 July	31 Oct.	
	Carpenters and	-	-					
	Joiners	-	-	25	4 months	do	do	
	Welders	-	-	28	4 months	do	do	

(c) Students			(d)	(e)	(f)	(g)
Offrs	NCOs.	Troops	Duration.	Begins.	Ends	Remarks.
-	-	29	6 months	5 June	5 Dec	} Instruction given at Instructional School Duc d'Aosta.
-	-	23	6 months	do	do	
-	-	23	6 months	do	do	
-	-	27	6 months	do	do	
-	-	1	6 months	do	do	} Instruction given at Centro Studi Rome.
-	-	6	6 months	do	do	
-	-	1	6 months	do	do	
-	-	1	6 months	do	do	
-	-	1	6 months	do	do	
-	-	1	6 months	do	do	
-	-	5	6 months	do	do	
-	-	6	6 months	do	do	
-	-	1000	12 weeks	25 Sept	18 Dec	} Instruction given at Fiat works Rome.
50	-	-	6 months	1 Oct	31 Mar 47	
-	-	101	6 months	1 Aug	1 Feb 47	
-	-	114	6 months	do	do	
-	-	49	6 months	do	do	
-	-	18	6 months	do	do	
-	-	1	6 months	do	do	
-	-	71	6 months	1 July	31 Jan 47	} New Course Assembles 25 Sept. Commence about 1st Oct.
-	-	80	6 months	1 July	do	
-	-	74	6 months	do	do	
-	-	29	6 months	do	do	
-	-	19	6 months	do	do	
-	-	229	6 months	do	do	
-	-	28	6 months	3 July	31 Dec.	} New Course 1st Oct
-	-	23	4 months	3 July	31 Oct.	
-	-	25	4 months	do	do	
-	-	28	4 months	do	do	

6281

(a) School.	(b) Course	(c) Students			(d) Duration	(e) Begins.	(f) Ends	
		Offrs	NCOs.	Troops.				
M.R.T.C. Centro Studi	Painters	-	-	9	4 months	3 July	31 Oct	
	Sheet-Metal	-	-					
	Workers	-	-	7	4 months	do	do	
	Tyre Repairers	-	-	6	4 months	do	do	
	Upholsterers	-	-	1	4 months	do	do	
Artillery S.M.O.A.	Gunfitters	-	-	16	7 weeks	8 July	31 Aug	Next course Oct. '46. These men On completion return to as permanent at the School training at School This course but 3 have unsuitable 42 men not been R.T. completed A total of
	Gunfitters	-	-	13 Civ	7 weeks	do	do	
	Unit Armourers	-	-	4	7 weeks	do	do	
	Unit Armourers	-	-	?	7 weeks can be extended to 10.			

NOTE : A further 100 N.C.Os. and 2 Troops are expected to arrive at end of Sept. for course due to begin beginning of Oct. (See para. 6 (iii)).
This cannot take place, due to lack of Training Stores, accommodation and instructors.
Many attempts are said to have been made to obtain stores by S.M.O.A., but nothing has happened.

(c) Students			(d)	(e)	(f)	(g)
Offrs	NCOs.	Troops.	Duration	Begins.	Ends	Remarks.
-	-	9	4 months	3 July	31 Oct	
-	-	7	4 months	do	do	
-	-	6	4 months	do	do	
-	-	1	4 months	do	do	
-	-	16	7 weeks	8 July	31 Aug	Next course will probably start in Oct. '45. These men are from Piacenza Arsenal. On completion of course, 6 will return to Piacenza, 7 will remain as permanent staff (maintenance) at the School receiving thorough training in all equipment held at School. This course started with 7 men, but 3 have been R.T.U. as unsuitable. 42 men now on course, 5 having been R.T.U. 36 of the 42 have completed first week of course. A total of 110 is expected.
-	-	13 Civ	7 weeks	do	do	
-	-	4	7 weeks	do	do	
-	-	?	7 weeks can be extended to 10.			
-	-					

Os. and 2 Troops are expected to arrive at end of Sept. for course due to commence (See para. 6 (iii)).
 place, due to lack of Training Stores, accommodation and instructors.
 said to have been made to obtain stores by C.B.O.A., but nothing has happened as yet.

14 TECHNICAL TRAINING CENTRE, PUNE.Course: FIELD ARMY EQUIPMENT, S.M.S.'s COURSE.Duration: 6 WEEKS.

Comprising 2 sections as follows:-

Section I. DRIVING & HANDLING OF 'B' VEHICLE.
Duration. 2 WEEKS.Section II. OFFICERS 'B' VEHICLES REPAIR & INSPECTION.
Duration. 4 WEEKS.

Serial 32

(9)

14 TECHNICAL TRAINING CENTRE, F.M.E.
Course: FIELD ARMY EQUIPMENT, F.M.E.'s COURSE.
Duration: 6 WEEKS.

Comprising 2 Sections as follows:-

Section I. DRIVING & HANDLING OF 'B' VEHICLES.
Duration. 2 WEEKS.

Section II. OFFICER'S 'B' VEHICLE REPAIR & MAINTENANCE.
Duration. 4 WEEKS.

E203

Ry 24/7/46

14 TECHNICAL TRAINING CENTRE R.E.M.E.Course: FIELD ARMY EQUIPMENT E.M.E. 19.Section: DRIVING & HANDLING OF 'B' VEHICLES.Amendments to Course Syllabus, Day Programme
and Lesson Plans - 1.10.45.

Amendment No.1.

Page 2.

2nd Week, Para "P" Vehicles.....
ADD - "Waterproofing".

Amendment No.2.

Page 4.

ADD new para:-
"WATERPROOFING. Methods & materials, Variations
on different Vehicles, Loading & Wading."
INSERT "10" in PERIOD column.

Amendment No.3.

Page 6.
(Tuesday).

DELETE "Dispersal of Course".

INSERT:-Periods 1 & 2 : Introduction to Waterproofing,
Methods & Materials.
Period 3 : Methods of Organising Mass
Waterproofing.Periods 4 & 5 : Examination of Waterproofing Methods.
Variations on different Vehicles.

Periods 6 & 7 : Loading Practice.

Periods 7, 9 & : Wading.

10.

14 TECHNICAL TRAINING CENTRE REIS.Course: FIELD ARMY EQUIPMENT, S.M.E.'s COURSE.Section: OFFICERS 'B' VEHICLES REPAIR & INSPECTION.Amendments to Course Syllabus, Day Programme
and Lesson Plans - 1.10.45.

Amendment No.1.	Page 1.	Under heading "Films". INSERT C.75, C.4071, C.804, C.805, C.806.
Amendment No.2.	Page 3.	Para "C.I.E." INSERT in "Film" column C.75, C.4071.
Amendment No.3.	Page 4.	Para "Clutches". DELETE '3' in "period" column. INSERT '4'.
Amendment No.4.	Page 4.	Para "Gearboxes". DELETE '7' in "period" column. INSERT '6'.
Amendment No.5.	Page 5.	Para "Tyres & Wheels". INSERT in "Film" column "C.804, C.805, C.806.
Amendment No.6.	Page 7.	REMOVE page 7. INSERT new page attached.
Amendment No.7.	Page 8.	REMOVE page 8. INSERT new page attached.
Amendment No.8.	Page 9.	Saturday period 2. DELETE "Constructional details of Service Tyres". INSERT "Films C.804, C.805 & C.806."

Duration of Course - 4 WEEKS.
Week of Course - 1st.

14 Technical Training Centre RME.
 Course: FIELD ARMY EQUIPMENT S.M.E.'s COURSE.
 Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.
 Subject: I.C. ENGINES, C.I. ENGINES, M.V. ELECTRICAL INSTALLATION.

PERIOD	0710-0730	(1) 0815 - 0855	(2) 0905 - 0945	(3) 0955 - 1035	(4) 1050 - 1130	(5) 1140 - 1220	(6) 1320 - 1400	(7) 1410 - 1450	1500	
WED.	PHYSICAL TRAINING	*Petrol Engine, Function of Component Parts.	*The Otto Cycle. Firing Orders.	*Ignition Timing, Magneto & Coil.	*Valve Lay-outs. Valve timing Valve timing faults.	*Sequence of Dismantling Engines.	*Examination & Dismantling Engine.	*Lubrication, Types of Systems.	*Oil Type Oil	
THURS.		*Examination of Crankshaft, Testing for End Float.	*Assembly of Engines, Precautions.	*Examination of Pistons, Working Clearances.	*Valve Timing.	*Tappet Adjustments, Symptoms of incorrect Valve Timing.	*Cylinder Heads, Gaskets etc.	+	-----	
FRI.		*Fuel Supply Systems.	*Autovac, Description & Operation.	*Mechanical & Electrical Fuel Pumps.	*Basic Principles of Carburation.	*Simple Carburettor.	*Compensation & why it is necessary.	*Compensation as applied to Zenith Carburettor.	*Comp as a to 3 Carbu	
SAT.		Differences between I.C. & C.I. Engines.	*Films. C.75. 3.4071. Injection Pumps.	C.I. ENGINES		*Governors & their Operation.	*Fuel Injectors, Types & Operation.	*Filtration on C.I. Engines.	-----REGR	
MON.		*Introduction to Electrical Ignition.	*-----COIL IGNITION-----		Description of Component parts. Method of obtaining H.T. Spark at Plug points.		*Methods of obtaining Advance & Retard.	*Ford V.8. Distributor, American & Lucas types. H.T. Current.	*Magnetos, Method of obtaining H.T. Current.	*Rotating Armature Magnetos.
TUES.	PHYSICAL TRAINING	*-----DYNAMOS-----		*Voltage & Current Regulators.	*Adjustment of Regulators.	*Cut Out, Purpose & Operation.	*Charging Circuit, Faults & Repair.	*Types of Starter Motors & Switches.	*Light Circuit Access & Fuse	
		*Basic Principles.	*Two & Three Brush Type.							

14 Technical Training Centre REME.Course: FIELD ARMY EQUIPMENT S.M.E.'s COURSE.Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.Subject: I.C. ENGINES, C.I. ENGINES, M.V. ELECTRICAL INSTALLATION.

Amended 1.10.45

	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0945	0955 - 1035	1050 - 1130	1140 - 1220	1320 - 1400	1410 - 1450	1500 - 1540	1555 - 1635	1645 - 1725.
to	*Ignition Timing, Magneto & Coil.	*Valve Lay-outs. Valve timing Valve timing faults.	*Sequence of Dismantling Engines.	*Examination & Dismantling Engine.	*Lubrication, Types of Systems.	*Oil Pumps, Types of Oil Filters.	*Examination of Lubrication System.	*Checking Main & Big End Bearings.
ly of	*Examination of Pistons, Working Clearances.	*Valve Timing.	*Tappet Adjustments, Symptoms of incorrect Valve Timing.	*Cylinder Heads, Gaskets etc.	+-----ASSEMBLY OF ENGINES-----			Cooling Systems, Pumps, Thermostats, Anti-Freeze.
tion	*Mechanical & Electrical Fuel Pumps.	*Basic Principles of Carburation.	*Simple Carburettor.	*Compensation & why it is necessary.	*Compensation as applied to Zenith Carburettor.	*Compensation as applied to Solex Carburettor.	*Easy Starting devices.	*Filters, faults in Fuel systems.
on	C.I. ENGINES-----			-----RECREATION-----				
	*Governors & their Operation.	*Fuel Injectors, Types & Operation.	*Filtration on C.I. Engines.					
Oil Ignition-----	*Methods of obtaining Advance & Retard.	*Ford V.8. Distributor, American & Lucas types.	*Magneto, Method of obtaining H.T. Current.	*Rotating Armature Magneto.	*Rotating Magnet Magneto.	*Spark Plug, Heater Plug, Suppression Equipment.	*Ignition faults, remedies.	
tion of Component Method of								
ing H.T. Spark at								
Anta.								
Brush	*Voltage & Current Regulators.	*Adjustment of Regulators.	*Cut Out, Purpose & Operation.	*Charging Circuit, Faults & Repair.	*Types of Starter Motors & Switches.	*Lighting Circuits, Accessories & Fuses.	* <u>LEAD ACID BATTERIES.</u> Construction & Operation, Maintenance.	

14 Technical Training Centre REME.

Course: FIELD ARMY EQUIPMENT, E.M.E.'s COURSE.

Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.

Subject: VEHICLE TRANSMISSION, C.I. ENGINES & MOTOR CYCLES.

Duration of Course - 4 WEEKS.

Week of Course - 2nd.

PERIOD DAY.	0710- 0730	(1) 0815 - 0855	(2) 0905 - 0945	(3) 0955 - 1035	(4) 1050 - 1130	(5) 1140 - 1220	(6) 1320 - 1400	(7) 1410 - 1450	(8) 1500
TED.	PHYSICAL TRAINING	*Clutches, Purpose & Operation.	*Dismantling, & adjusting Re-setting	assembling Clutches. of Toggles.	*Clutch Faults.	*Construction & operation of Sliding Mesh Gearbox.	*Dismantling, & Re-assembly of Sliding Mesh Gearbox.	Examination of Sliding Mesh Gearbox.	*Cone & ope of Co & Syn Mesh.
TUE.		*Types, Details of Operation & Construction. Differential Gearing & its object.		REAR AXLES *Practice in dismantling, & adjusting.		re-assembling	Lubrication Oil Seals, Faults.	Transmission Shafts, Types of Universal Joints.	*Axle Shaft arran
WRI.		*Brakes, Object & Types.	*Lockheed System, Details of Construction	LOCKHEED BRAKES. *Practice in Dismantling, re-assembling, Bleeding & Adjusting.		*Girling & Bendix Cowdry. Details of Construction	*GIRLING & BENDIX COWDRY. Practice in Dismantling, Re-assembling & Adjusting Systems & Linkages.		*Bend Servo Const & Maint
TH.		PRACTICAL WORK C.I. ENGINES			*Timing Fuel Pumps to Engines.	*Injectors, Types, Examination	*Examination of Fuel System etc.	*Dismantling & cleaning of Filters.	REAR AXLES
FR.	PHYSICAL TRAINING	FRONT AXLES		*Steering. Geometry & Ackerman Linkage.	*Dismantling & Re-assembly of Front Axles. Checking for Alignment.	*Caster, Camber, Centre Point Steering & Toe-in.	*Steering Boxes, Types & Construction	*Practice in disma re-assembling & a Steering Boxes an adjusting wheels Toe-in.	
RES.		*Construction & Operation of the Two Stroke Engine	*Dismantling, Examination, & Re-assembly of Two Stroke Engines.	*Construction of the Air Cooled Four Stroke Engine.	MOTOR CYCLE *Dismantling & Re-assembly of 4 Stroke Engines. Re-timing of Valves & Ignition.			*Dismantling, Exam & Re-assembly of & Gearboxes.	

14 Technical Training Centre REME.
 Course: FIELD ARMY EQUIPMENT, E.M.E.'s COURSE.
 Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.
 Subject: VEHICLE TRANSMISSION, C.I. ENGINES & MOTOR CYCLES.

Amended 1.10.45.

	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	0955 - 1035	1050 - 1130	1140 - 1220	1320 - 1400	1410 - 1450	1500 - 1540	1555 - 1635	1645 - 1725
0945 Dismantling, assembling adjusting setting of Toggles.		*Clutch Faults.	*Construction & operation of Sliding Mesh Gearbox.	*Dismantling, Examination & Re-assembly of Sliding Mesh Gearbox.	GEAR BOXES			
						*Construction & operation of Constant & Synchro- Mesh.	*Dismantling, Examination & Re-assembly of Synchro-Mesh.	
action. ing &		*Practice in dismantling, & adjusting.	*Re-assembling	Lubrication Oil Seals, Faults.	Transmission Shafts, Types of Universal Joints.	*Axle Shaft arrangements.	*Types of Springs, Faults & repairs.	*V.D. Suspension Shock Absorbers, Operation & adjustment.
eed n, ls of ruction		LOCKHEED BRAKES. +Practice in Dismantling, re-assembling, Bleeding & Adjusting.	*Girling & Bendix Cowdry. Details of Construction.	*GIRLING & BENDIX COWDRY. Practice in Dismantling, Re-assembling & Adjusting Systems & Linkages.		*Bendix & Servo Unit. Construction & Maintenance.	*Dismantling, re-assembling & adjusting Bendix & Servo Systems.	*Brake re-lining, Brake Faults & remedies.
PRACTICAL to				RECREATION				
	+Injectors, Types, Examination	+Examination of Fuel System etc.	+Dismantling & cleaning of Filters.					
S king r nment.	*Steering. Geometry & Ackerman Linkage.	+Dismantling & Re-assembly of Front Axles. Checking for Alignment.	*Caster, Camber, Centre Point Steering & Toe-in.	*Steering Boxes, Types & Construction	*Practice in dismantling, re-assembling & adjusting Steering Boxes and adjusting wheels for Toe-in.	*Front Wheel Drive. Special considerations	*Practice in dismantling Front Wheel Drive. Steering & Assemblies.	
mantling, ination, -assembly wo Stroke nes.	*Construction of the Air Cooled Four Stroke Engine.	+Dismantling & Re-assembly of 4 Stroke Engines.	Re-timing of Valves & Ignition.	+Dismantling, Examination & Re-assembly of Clutches & Gearboxes.		*Care of Cables Chain Front Forks & Steering.	*Checking Frames & Forks for Alignment.	

Training Instructions

Syllabus, Day Programme & Lesson Plans.

Course: **FIELD ARMY EQUIPMENT M.A.S.'s COURSE.**

Section: DRIVING & HANDLING OF 'B' VEHICLES

Duration: 2 WEEKS.

<u>INSTRUCTION.</u> <u>HOURS OF WORK.</u>	<u>OBJECT OF COURSE & PRE-REQUISITE OF TRAINING.</u>	<u>TRAINING AIDS, MODES</u>
Monday to Friday.....0830 - 1230. 1330 - 1730. Saturdays...0630 - 1200. Gross weekly hours.....43½ hrs.	To give Officers initial Instruction in Driving and Handling of all classes of 'B' Vehicles in accordance with the requirements of driving on the Public Highway and of Military Operations.	All types of 'B' Vehicles as listed for Instruction.
<u>PERIOD VALUES.</u> Lessons - Theory.....40 mins. Lessons - Demonstration...40 mins. Practical - Determined by nature of Practice.	<u>EQUIPMENT TO BE COVERED BY INSTRUCTION.</u> <u>MOTOR CYCLES</u> - B.S.A., Enfield, Matchless, Norton, Triumph. <u>VEHICLES</u> - 15 cwt. Bedford, Chevrolet, Gray Ant. 3 ton. Austin, Bedford, Chevrolet, Dodge, Fordson, G.M.C., Leyland. <u>CARRIERS.</u> Universal.	
<u>BREAKS.</u> 10 mins following Theory and Demonstration periods. 10 mins following Practical periods. 15 mins Morning break. (Taken on Route).		
<u>OTHER INSTRUCTION.</u> Physical Training..1½ hrs weekly.		
<u>NOTE:-</u> * or + in Daily Programmes refer respectively to "Lesson" or "practical" periods.		

14 Technical Training Centre RDEE.
 Training Instructions.
 Syllabus, Day Programme & Lesson Plans.
 Course: FIELD ARMY EQUIPMENT L.M.S.'s COURSE.
 Section: DRIVING & HANDLING OF 'B' VEHICLES.
 Duration: 2 WEEKS.

	<u>OBJECT OF COURSE & PRE-REQUISITE OF TRAINEES.</u>	<u>TRAINING AIDS, MODELS.</u>	<u>FILMS.</u>	<u>STAMP.</u>
30. 30. 00.	To give Officers initial instruction in Driving and Handling of all classes of 'B' Vehicles in accordance with the requirements of driving on the Public Highway and of Military Operations.	All types of 'B' Vehicles as listed for instruction.		
ing. ing. re	<u>EQUIPMENT TO BE COVERED BY INSTRUCTION.</u> <u>MOTOR CYCLES</u> - B.S., Enfield, Matchless, Norton, Triumph. <u>VEHICLES</u> - 15 cwt. Bedford, Chevrolet, Guy Ant. 3 ton. Austin, Bedford, Chevrolet, Dodge, Fordson, G.M.C., Leyland. <u>CARRIERS.</u> Universal.			
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ly.				
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6286

14 Technical Training Centre REME.
 Course: FIELD ARMY EQUIPMENT S.J.L.E.'s COURSE.
 Section: DRIVING & HANDLING OF 'B' VEHICLES.
 Duration: 2 WEEKS.
Schedule of Instruction.

WEEK.	SUBJECT.
1	<u>MOTOR CYCLES</u> - Riding & Handling. <u>'B' VEHICLES</u> - Driving & Handling 15 cwt and 3 ton Vehicles on Easy Routes.
2	<u>'B' VEHICLES</u> - Advanced Driving & Handling of Right and Left Hand Drive 3 ton Vehicles, Convoy driving, March discipline, Reversing, Driving at night, Final Road Test. <u>CARRIERS UNIVERSAL</u> - Driving & Handling on Easy Route.
1½ hrs.	<u>OTHER INSTRUCTION.</u> Physical Training.

14 Technical Training Centre REME.
Course: FIELD ARMY EQUIPMENT E.M.E.'s COURSE.
Section: DRIVING & HANDLING OF 'B' VEHICLES.
Duration: 2 WEEKS.
Schedule of Instruction.

SUBJECT.

- MOTOR CYCLES - Riding & Handling.
- 'B' VEHICLES - Driving & Handling 15 cwt and 3 ton Vehicles on Easy Routes.
- 'B' VEHICLES - Advanced Driving & Handling of Right and Left Hand Drive 3 ton Vehicles, Convoy driving, March discipline, Reversing, Driving at night, Final Road Test.
- CARRIERS UNIVERSAL - Driving & Handling on Easy Route.

OTHER INSTRUCTION.

Physical Training.

6285

14. Training Center Area.
DRIVER TRAINING COMPANY.

Course: FIELD ARMY EQUIPMENT SCHOOL'S COURSE.

Location: DRIVING & HANDLING OF 'B' VEHICLES.

Subject: DRIVING MOTOR CYCLES, 15 CWT & 3 TON VEHICLES.

WEEK	SYLLABUS		PERIODS.	REMARKS LECTURE
1	<u>MOTOR CYCLES.</u>	Riding & Handling.	29	
	<u>15 CWT VEHICLES.</u>	Driving & Handling 15 cwt Vehicles on Controlled Routes, Road Sense, Steering, Clutch & Gear Work.	14	
	<u>3 TON VEHICLES.</u>	Driving & Handling 3 ton Vehicles of various types on Intermediate Route through Town and Country.	10	

14 Technical Training Center, S.W.
 DRIVER TRAINING COMPANY.

Contract: FIELD ARMY EQUIPMENT A.D.S.'s COURSE.

Location: DRIVING & HANDLING OF 'B' VEHICLES.

Subject: DRIVING MOTOR CYCLES, 150 CWT & 3 TON VEHICLES.

SYLLABUS	PERIODS.	REFERENCES AND LECTURE PRACIS.	FILES.	FILM STRIPS.
Riding & Handling.	29			
Driving & Handling 15 cwt Vehicles on Controlled Routes, Road Sense, Steering, Clutch & Gear Work.	14			
Driving & Handling 3 ton Vehicles of various types on Intermediate Route through Town and Country.	10			
				6204

14 Technical Training Centre Road.
DRIVER TRAINING COMPANY.

Course: FIELD ARMY EQUIPMENT L.M.S.'s COURSE.
Section: DRIVING & HANDLING OF 'B' VEHICLES.
Subject: DRIVING 3 TON VEHICLES & CARRIERS.

WEEK	SYLLABUS	PERIODS	REMARKS LECTURE
2	<u>3 TON VEHICLES</u> - Advanced Driving & Handling 3 ton Vehicles of various types - Left and Right Hand Drive - through City and Town traffic.	29	
	<u>CONVOY DRIVING</u> - March Discipline, Parking Drill.	4	
	<u>REVERSING</u> - Reversing 3 ton Vehicles in confined spaces.	2	
	<u>CARRIERS</u> - Driving & Handling Carriers on Easy Routes. Gear changing, Steering.	6	
	<u>NIGHT DRIVING</u> - Driving 3 ton Vehicles on specially selected Routes during hours of darkness.	4	
	<u>FINAL ROAD TEST</u> - On special Test Course.	2	
	<u>DISPOSAL OF COURSE.</u>	4	

14 Technical Training Centre Ref.
DRIVER TRAINING COMPANY.

Course: FIELD ARMY EQUIPMENT COURSE
 Section: DRIVING & HANDLING OF 'B' VEHICLES.
 Subject: DRIVING 3 TON VEHICLES & CARRIERS.

SYLLABUS	PERIODS	REFERENCES AND LECTURE PRECS.	FILES	FILM STRIPS.
Advanced Driving & Handling 3 ton Vehicles of various types - Left and Right Hand Drive - through City and town traffic.	29			
March Discipline, Parking Drill.	4			
Reversing 3 ton Vehicles in confined spaces.	2			
Driving & Handling Carriers on Day Routes.	6			
Gear changing, Steering.				
Driving 3 ton Vehicles on Specially selected Routes during hours of darkness.	4			
On special Test Course.	2			
	4			

14 Technical Training Centre Add.
Course: FIELD ARMY EQUIPMENT S.M.E.'s COURSE.
Section: DRIVING & HANDLING OF 'B' VEHICLES.
Subject: DRIVING MOTOR CYCLES, 15 CWT & 3 TON VEHICLES.

PERIOD	0710-0730	(1) 0830 - 0910	(2) 0920 - 1000	(3) 1015 - 1055	(4) 1105 - 1145	(5) 1150 - 1230	(6) 1330 - 1410	(7) 1420 - 1500	(8) 1510 -
DAY		MOTOR CYCLES							
ED.	TECHNICAL TRAINING	+ Introduction to Controls.	+ Starting & 1st Gear.	+ Starting & Stopping.	+ 1st & 2nd Gear.	+ Hand Signals Practice.	+ 1st, 2nd, 3rd & 4th Gear Practice.	+ Riding in Convoy.	+ RIDING
THUR.		MOTOR CYCLES					MOTOR CYCLES		
		RIDING PRACTICE & TURNING IN CONTROLLED SPACES					RIDING PRACTICE & PARKING DRILL		
FRI.		MOTOR CYCLES					MOTOR CYCLES		
		RIDING ON INTERMEDIATE ROUTES USING SIGNALS, PLEADING & TURNING DRILL.					RIDING ON ADVANCED ROUTE IN		
SAT.		15 C/T VEHICLES					RECREATION		
		DRIVING & HANDLING 15 C/T VEHICLES ON EASY ROUTE. ROAD SENSE - GEARS.							
SUN.	TECHNICAL TRAINING	15 C/T VEHICLES							
		DRIVING & HANDLING ON EASY ROUTES, STOPPING & GEARS							
MON.		3 TON VEHICLES							
		DRIVING & HANDLING ON INT. ROUTE & TURNOUT							

14 Technical Training Centre R214.

Course: FIELD ARMY EQUIPMENT E.M.E.'s COURSE.

Section: DRIVING & HANDLING OF 'E' VEHICLES.

Subject: DRIVING MOTOR CYCLES, 15 C/T & 3 TON VEHICLES.

	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
000	1015 - 1055	1105 - 1145	1150 - 1230	1330 - 1410	1420 - 1500	1510 - 1550	1600 - 1640	1650 - 1730
<u>MOTOR CYCLES</u>								
&	+ Starting & Stopping.	+ 1st & 2nd Gear.	+ Hand Signals Practice.	+ 1st, 2nd, 3rd & 4th Gear Practice.	+ Riding in Convoy.	+ RIDING PRACTICE ON EASY ROUTES.		
<u>MOTOR CYCLES</u>								
3 TURNING IN CONFINED SPACES.				+ RIDING PRACTICE & PARKING DRILL.			SPARK.	
<u>MOTOR CYCLES</u>								
EASY ROUTE USING SIGNALS, TURNING DRILL.				+ RIDING ON ADVANCED ROUTE IN HEAVY TRAFFIC.			+ Final Motor Cycle Road Test.	
<u>15 C/T VEHICLES</u>								
15 C/T VEHICLES ON EASY ROUTE. - GEARS.				RECREATION				
<u>15 C/T VEHICLES</u>								
DRIVING & HANDLING ON EASY ROUTES, STOPPING & GEARS.								
<u>3 TON VEHICLES</u>								
DRIVING & HANDLING ON INTERMEDIATE ROUTES.								

6282

@ 2300 hrs
-0300 hrs

PERIOD		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
DAY		0830 - 0910	0920 - 1000	1015 - 1055	1105 - 1145	1150 - 1230	1330 - 1410	1420 - 1500	1510 -
		<u>3 TON VEHICLES</u>							
ED.	PHYSICAL TRAINING	+ DRIVING & HANDLING ON INTERMEDIATE ROUTES.							
THUR.		ADVANCED DRIVING & HANDLING ON DIFFICULT ROUTE IN HEAVY TRAFFIC.							
FRI.									
SAT.		+ <u>3 TON VEHICLES</u> DRIVING IN CONVOY, MARCH DISCIPLINE, MOUNTING DRILL.					RECREATION		
@	PHYSICAL TRAINING	+ <u>3 TON VEHICLES</u> Reversing in confined space.			+ FINAL ROAD TEST.		<u>CARRIERS</u> DRIVING & HANDLING.		
MON.									

@ 2300 hrs. Night Drive on 3 ton
-0300 hrs. Vehicles over special
Route.

626

Duration: 4 WEEKS.

INSTRUCTIONS.	OBJECT OF COURSE & PRELIMINARIES OF TRAINEE.	TRAINING AID, MODEL.
<u>HOURS OF WORK.</u> Monday to Friday....0815 - 1220. 1320 - 1725. Saturday....0815 - 1300 Gross weekly hours....44½.	To Instruct Officers in the process of Repair, Maintenance and Inspection of all classes of 'B' Vehicles, in order that they may be prepared to supervise efficiently such work in Field and Static Workshops.	'G' Vehicles as listed for Instruction. Motor Cycles as listed for Instruction. Running Engines. Stationary Engines. Clutches. Gearboxes. Rear Axles. Front Axles. Springs. Brake Layouts. Steering Boxes. Carburettors. Fuel Pumps. Electrical Layouts. Miscellaneous Components. All Diagrams & Charts appertaining to Equipment. Army forms etc.
<u>PERIOD VALUE.</u> Lessons - Theory.....40 mins. Lessons - Demonstrations..40 mins. Practical, Determined by nature of practice.	<u>EQUIPMENT TO BE COVERED BY INSTRUCTION.</u> Side Valve Engines. O.H.V. Engines. V.8. Engines. Compression Ignition Engines. Electrical Components & Circuits. Transmission Components. Motor Cycles - B.S.A., Matchless, Norton Triumph. 'B' Vehicles - 15 cwt. Chevrolet, Ford. 3½ cwt. Bedford, Morris. Army Forms, Pamphlets & A.C.I.'s in common use, appertaining to 'B' Vehicles & Workshop Procedure generally.	
<u>BREAK.</u> 10 mins following Theory and Demonstration periods. 10 mins between Practical periods when possible. 15 min Morning break. 15 min Afternoon break.		
<u>OTHER INSTRUCTION.</u> Physical Training....1½ hrs weekly.		
<u>NOTES:</u> * or + in Daily Programme refer respectively to 'Lesson' or 'practical' periods.		

14 Technical Training Centre RCE.Training Instructions.Syllabus, Day Programme & Lesson Plans.Course: FIELD ARMY EQUIPMENT I.A.M.'s COURSE.Section: OFFICERS 'B' VEHICLE REPAIR & INSPECTION.Duration: 4 WEEKS.OBJECT OF COURSE & PRE-REQUISITE OF TRAINEES.

To Instruct Officers in the process of Repair, Maintenance and Inspection of all classes of 'B' Vehicles, in order that they may be prepared to supervise efficiently such work in Field and Static Workshops.

EQUIPMENT TO BE COVERED BY INSTRUCTION.

Side Valve Engines.
O.H.V. Engines.
V.8. Engines.
Compression Ignition Engines.
Electrical Components & Circuits.
Transmission Components.
Motor Cycles - B.S.A., Matchless, Norton Triumph.
'B' Vehicles - 15 cwt. Chevrolet, Ford.
 31 cwt. Bedford, Morris.
Army Forms; Pamphlets & A.C.I.'s in common use,
appertaining to 'B' Vehicles & Workshop
Procedure generally.

TRAINING AIDS, MODELS.

'B' Vehicles as listed
for Instruction.
Motor Cycles as listed
for Instruction.
Running Engines.
Stationary Engines.
Clutches.
Gearboxes.
Rear axles.
Front axles.
Springs.
Brake Layouts.
Steering Boxes.
Carburettors.
Fuel Pumps.
Electrical Layouts.
Miscellaneous
Components.
All Diagrams & Charts
appertaining to
Equipment.
Army Forms etc.

FILMS.SLIP.

6280

14 Technical Training Centre REG.
 Course: FIELD ARMY EQUIPMENT E.M.L.'s COURSE.
 Section: OFFICERS 'B' VEHICLE REPAIR & INSPECTION.
 Duration: 4 WEEKS.
Schedule of Instruction.

WEEK	SUBJECT
1	Internal Combustion Engines 4, 6, and 8 Cylinders, Carburation and Fuel Supply Systems, Compression Ignition Engines, 'B' Vehicle Electrical Components and Circuits.
2	Clutches & Gearboxes, Rear Axles, Transmission, Springs, Brakes, C.I. Engines, Front Axles, Steering, Motor Cycles.
3	Diagnosis, rectification of Engine faults, Tyres & Wheels, Inspection Maintenance & Care of Army Vehicles based on the Task System, Diagnosis, rectification of Transmission faults.
4	Inspection Procedure, Classification of 'B' Vehicles, Army Forms, Pamphlets & A.C.I.'s, Practical Inspection of 'B' Vehicles, Examination & Discussion.
	<u>OTHER INSTRUCTION.</u>
1½ hrs.	Physical Training.

14 Technical Training Centre RAME.Course: FIELD ARMY EQUIPMENT S.M.S.'s COURSE.Section: OFFICERS 'B' VEHICLES REPAIR & INSPECTION.Duration: 4 WEEKS.Schedule of Instruction.SUBJECT

Internal Combustion Engines 4, 6, and 8 Cylinders, Carburation and Fuel Supply Systems, Compression Ignition Engines, 'B' Vehicle Electrical Components and Circuits.

Clutches & Gearboxes, Rear Axles, Transmission, Springs, Brakes, C.I. Engines, Front Axles, Steering, Motor Cycles.

Diagnosis, rectification of Engine faults, Tyres & Wheels, Inspection Maintenance & Care of Army Vehicles based on the Task system, Diagnosis, rectification of Transmission faults.

Inspection Procedure, Classification of 'B' Vehicles, Army Forms, Pamphlets & A.C.I.'s, Practical Inspection of 'B' Vehicles, Examination & Discussion.

OTHER INSTRUCTION.

Physical Training.

62.6

14 Technical Training Centre RPT.

D.T. 507.

Course: FIELD ARMY EQUIPMENT SERVICING COURSE.

Section: OFFICE AND 'B' VEHICLE AND I.C. & INST. CTION.

Subject: I.C. ENGINES, C.I. ENGINES, M.V. ELECTRICAL INSTALLATION.

WEEK	SYLLABUS	PERIODS	REMARKS LECTURE
1	<u>INTERNAL COMBUSTION ENGINE.</u> Introduction, Identification & function of Components, Cycle of Operation, Firing Orders, Ignition Timing, Valve Timing, Tappet adjustment, Lubrication systems, Faults & rectification, Cooling systems, Method of engine dismantling & assembly. Consolidation of work covered. <u>FUELLING & FUEL SUPPLY SYSTEMS.</u> <u>Carburettors.</u> Basic principles, Service types, Common faults & rectification. <u>Mechanical & Electrical Ignition.</u> Construction, Operation and Faults. <u>Autovac.</u> Construction, Operation & Faults. <u>Filters.</u> Types and their uses. <u>COMPRESSION IGNITION ENGINES.</u> Basic principles, Difference between I.C. and C.I. Engines, Fuel Injection Equipment, Governors, Injectors, Filtration. <u>M.V. ELECTRICAL INSTALLATION.</u> <u>Ignition Systems.</u> Operation of Components and Circuits, Faults, location & rectification. <u>Charging Circuit.</u> Operation and construction of Voltage Regulators, Cut Out, Dynamos etc, Wiring of Circuit, Fault finding & rectification. <u>Starter Motors.</u> Principle Types, Operation and Construction, Faults and their remedies, Switches, Manual & Solenoid operated. <u>Lighting Circuits.</u> General Layout, Earth & Insulated Return, Accessories. <u>Batteries.</u> Description of construction, General maintenance, Common faults and how remedied.	20 10 5 10 6 1 1 2	14 T.T.C. Notes. Guide to Inspection Vehicles Pub. No. V.O. Pub. Instruct. Repair, & Dispos. Vehicles Motor-Cy Home, 19 V.O. Pub. Maintenance ('B' Veh

14 Technical Training Centre C.M.E.

P. T. 607.

Course: FIELD ARMY EQUIPMENT M.H.B.'s COURSE.

Section: OFFICER 'B' VEHICLE, REPAIR & INSPECTION.

Subject: I.C. ENGINES, C.I. ENGINES, A.V. ELECTRICAL INSTALLATION.

SYLLABUS	PERIODS	REFERENCES AND LECTURE PRECIS.	FILMS.	FILM STRIPS
1. Introduction, Identification & function of Components, Cycle of Operation, Firing Orders, Ignition Timing, Valve Timing, Tappet adjustment, Lubrication Systems, Faults & rectification, Cooling Systems, Method of engine dismantling & assembly. Consolidation of work covered. Basic principles, Service types, Common faults & rectification. Construction, Operation and Faults. Construction, Operation & Faults. Types and their uses.	20	14 T.T.C. Precis Notes. Guide to Inspection of 'B' Vehicles. Chilwell Pub. No.30/620. A.O. Publication, Instructions for the Repair, Replacement & Disposal of 'B' Vehicles (including motor-cycles) at Home, 1944.		
2. Basic principles, Difference between I.C. and C.I. Engines, Fuel Injection Equipment, Governors, Injectors, Filtration.	5	A.O. Publication, Maintenance Guide ('B' Vehicles) 1944.		
3. Operation of Components and Circuits, Faults, location & rectification. Operation and construction of Voltage Regulators, Cut Out, Dynamos etc, Wiring of Circuit, Fault finding & rectification. Principle Types, Operation and Construction, Faults and their remedies, Switches, Manual & Solenoid operated. General Layout, Earth & Insulated Return, Accessories. Description of construction, General maintenance, Common faults and how remedied.	10			
	6			
	1			
	1			
	2			62, 8

14 Technical Training Centre, E.M.S.

D.M.T. JOY.

Course: FIELD ARMY EQUIPMENT S.M.M.'s COURSE.

Location: OF 10.3. 'B' VEHICLES, REPAIR & INSPECTION.

Subject: VEHICLE, TRANSMISSION, C.I. ENGINES & MOTOR CYCLES.

WEEK	SYLLABUS	PERIODS	REFERENCE LECTURE
2	<u>CLUTCHES.</u> Necessity for, Types, Construction & Operation, adjustments and faults.	3	14 T.T.C. Notes.
	<u>GEAR BOXES.</u> Types, Construction and operation, Transfer and Power Take off Boxes, Common faults, Lubrication.	7	Guide to 1 of 'B' Vehicle Chilwell P 30/62
	<u>REAR AXLES.</u> Types, Object and Operation of Differential, Half Shafts, Bearing adjustment, Lubrication and Oil Seals.	6	
	<u>TRANSMISSION SHAFTS.</u> Torque Tube and Hetchkins drive, Universal Joints, Faults.	2	W.O. Public Instruction
	<u>SUSPENSION.</u> Types and action of Springs, Common faults, Temporary repairs.	2	Repair, Re & Disposal
	<u>BRAKES.</u> Types and methods of construction and operation, adjustments, Bleeding of Hydraulic type, Servo Unit and adjustments.	10	Vehicles (Motor-Cycle Home, 1944
	<u>COMPRESSION IGNITION ENGINES.</u> Fuel Pump Timing, Injectors, Dismantling and cleaning Filters.	5	W.O. Public Maintenance ('B' Vehicle
	<u>FRONT AXLES.</u> Types, Testing for alignment.	2	
	<u>STEERING.</u> Ackerman Linkage, Centre Point Steering, Castor action and Wheel Camber, Types of Steering Boxes, Alignment of Front Wheels, Reason for "Toe-in", Front Wheel Drive, Steering faults and adjustment of Wheel Bearings.	8	
	<u>MOTOR CYCLES.</u> Principles of Two and Four Stroke Engines, Gear Boxes, Clutches, Chains, Frames and Forks, Controls, Steering Dampers.	10	

14 Technical Training Center Regt.D.M.T. COY.COURSE: FIELD ARMY EQUIPMENT, G.A.'s COURSE.Section: ORG. of 'B' VEHICLES, REPAIR & INSPECTION.Subject: VEHICLE, T.M. L. 100, G.I. MACHINES & MOTOR CYCLES.

SYLLABUS	PERIODS	REFERENCES AND LECTURE PRECIS.	FILES.	FILM STRIPS.
by for, Types, Construction, Operation, Adjustments etc.	3	14 T.T.C. Precis Notes.		
Construction and operation, Transfer and Power Take off Common faults, Lubrication.	7	Guide to Inspection of 'B' Vehicles. Chilwell Pub. No. 30/620.		
Object and Operation of Differential, Half Shafts, Adjustment, Lubrication and Oil Seals.	6			
Tube and Hotchkiss Drive, Universal Joints, Faults.	2			
Action of Springs, Common faults, Temporary repairs.	2			
Methods of construction and operation, adjustments, of Hydraulic type, Servo Unit and adjustments.	10			
Timing, Injectors, Dismantling and cleaning Filters.	5			
Testing for alignment.	2			
Linkage, Centre Point Steering, Castor action and Camber, Types of Steering Boxes, Alignment of Front Reason for "Toe-in", Front Wheel Drive, Steering faults Adjustment of Wheel Bearings.	8			
Loss of Two and Four stroke Engines, Gear Boxes, Clutches, Frames and Forks, Controls, Steering Dampers.	10			

6277

1st Canadian Training Centre RCAF.
D.A.T. Coy.

Course: FIELD ARMY EQUIPMENT S.M.E.'s COURSE.

Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.

Subject: DIAGNOSIS OF FAULTS, PARK SYSTEM, TYRES & WHEELS.

WEEK	SYLLABUS	PERIODS	REMARKS
3	<u>ENGINE FAULTS.</u> Diagnosis, location and rectification of faults covering Fuel, Lubrication, Cooling Systems, Ignition, Charging and Lighting Circuits, Mechanical Troubles. <u>TYRES & WHEELS.</u> Types, Construction, Causes of Excessive wear, Vulcanising Equipment. <u>INSPECTION MAINTENANCE & CARE OF ARMY VEHICLES.</u> Detailed description of Park System applicable to Vehicles and Motor Cycles. Practical application of each Part. <u>TRANSMISSION FAULTS.</u> Diagnosis, location & rectification of faults covering Clutches, Gearboxes, Universal Joints, Rear axles, Front Wheel Drive axles, Springs.	30 5 10 10	14 T Notes Guide of 'B' Chil 30 W.O. Instr Rep & Dis Vehic Motor Homo W.O. Maint ('B' 1944.

Technical Training Centre R.E.L.D.I.T. COY.Course: FIELD ARMY EQUIPMENT ENGINEER'S COURSE.Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.Subject: DIAGNOSIS OF FAULTS, TASK SYSTEM, TYRES & WHEELS.

SYLLABUS	PERIODS	REFERENCES AND LECTURE PRECIS.	FILMS.	FILM STRIPS.
Diagnosis, location and rectification of faults covering L, Lubrication, Cooling Systems, Ignition, Charging and Starting Circuits, Mechanical Troubles.	30	14 T.T.C. Precise Notes.		
Wheels, Construction, Causes of excessive wear, Vulcanising equipment.	5	Guide to Inspection of 'B' Vehicles. Chilwell Pub. No. 30/620.		
<u>USE & CARE OF ARMY VEHICLES.</u>				
Detailed description of Task System applicable to Vehicles & Motor Cycles. Practical application of each Test.	10	W.O. Publication, Instructions for the Repair, Replacement & Disposal of 'B' Vehicles (including Motor-Cycles) at Home, 1944.		
Diagnosis, location & rectification of faults covering Engines, Gearboxes, Universal Joints, Rear Axles, Front Wheel Axles, Springs.	10	W.O. Publication, Maintenance Guide ('B' Vehicles) 1944.		

14 Technical Training Centre Regt.
D.S.T. COY.

Course: FIELD ARMY EQUIPMENT E.M.E.'S COURSE.

Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.

Subject: INSPECTION, REVISION, EXAMINATION.

WEEK	SYLLABUS	PERIODS.	REFERENCES LECTURE
4	<u>INSPECTION PROCEDURE.</u> Description of A.B.406 and A.F.932. Detailed consideration of Inspection routine. Practical 406 Inspection of Vehicles. <u>ARMY FORMS, PAMPHLETS & A.C.I.s.</u> Explanation and Instruction in the use of Forms etc appertaining to Workshops. <u>GENERAL REVISION & DISCUSSION.</u> <u>EXAMINATION.</u> <u>DISCUSSION OF EXAMINATION PAPER.</u>	30 5 10 4 6	14 T.T.C Notes. Guide to Inspecti 'B' Vehi Chilwell 30/620 V.O.Publ Instruct Repair, & Dispos Vehicles Motor-Cy Home, 19 V.O.Publ Maintenance ('B' Veh

14 Technical Training Centre 82nd.
B.S.T. COY.

Course: FIELD ARMY EQUIPMENT E.M.E's COURSE.
Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.
Subject: INSPECTION, REVISION, EXAMINATION.

SYLLABUS	PERIODS.	REFERENCES AND LECTURE PRECIS.	FILMS.	FILM STRIPS.
Description of A.B.406 and A.F.932. Detailed consideration of Inspection routine. Practical 406 Inspection of Vehicles.	30	14 T.T.C. Precis Notes. Guide to Inspection of 'B' Vehicles. Chilwell Pub.No. 30/620.		
A.C.Ia. Explanation and Instruction in the use of Forms etc appertaining to workshops.	5			
DISCUSSION.	10	7.O.Publication, Instructions for the Repair, Replacement & Disposal of 'B' Vehicles (including) Motor-Cycles) at Road, 1944.		
ION PAPER.	4			
	6	4.O.Publication, Maintenance Guide ('B' Vehicles) 1941.		

62.6

Duration of Course - 4 WEEKS.

Week of Course - 1st.

Technical Training Centre RAAF

Course: FIELD ARMY EQUIPMENT S.M.S.'s COURSE.

Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.

Subject: I.C. ENGINES, C.I. ENGINES, A.V. ELECTRICAL INSTALLATION.

PERIOD	0710 -	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
DAY.	0730.	0815 - 0855	0905 - 0945	0955 - 1035	1050 - 1130	1140 - 1220	1320 - 1400	1410 - 1450	1500 - 1540
THU.	PHYSICAL TRAINING	*Petrol Engine, Function of Component Parts.	*The Otto Cycle, Firing Order.	*Ignition Timing, Magneto & Coil.	*Setting Ignition, Timing Points.	*Sequence of Dismantling Engines.	*Examination & Dismantling Engine.	*Lubrication, Types of Systems.	*Oil Pump, Types of Oil Filter.
FRI.		*Examination of Crankshaft, Testing for End Float.	*Assembly of Engines, Precautions.	*Examination of Pistons, Working Clearances.	*Valve Timing.	*Tappe t adjustments, Symptoms of incorrect Valve Timing.	*Cylinder Heads, Gaskets etc.	*Assembly of Engine.	*Cooling Systems, Pumps, Thermostats, Anti-freeze.
SAT.		*Basic Principles of Carburation.	*Simple Carburettor.	*Compensation & why it is necessary.	*Compensation as applied to Zenith Carburettor.	*Compensation as applied to Solex Carburettor.	*Easy starting devices.	*Fuel supply Systems.	*Autovac, Description & Operation.
SUN.		C.I. ENGINES							
MON.		*Differences between I.C. & C.I. Engines.	*Fuel Injection Pumps.	*Governors & their Operation.	*Fuel Injectors, Types & Operation.	*Filtration on C.I. Engines.	R & C R & A T		
TUE.	PHYSICAL TRAINING	*Introduction to Electrical Ignition.	*-----COIL IGNITION----- Description of Component parts. Method of obtaining H.T. spark at Plug points.		*Methods of obtaining Advances & Retard.	*Ford V.8. Distributor, American & Lucas types.	*Magneto, Method of obtaining H.T. Current.	*Rotating Armature Magneto.	*Rotating Magnet Magneto.
WED.		*-----DYNALOS----- *Basic Principles.	*Two & Three Jaw Type.	*Voltage & Current Regulators.	*Adjustment of Regulators.	*Cut Out, Purpose & Operation.	*Charging Circuit, Points & Repair.	*Types of Starter Motors & Switches.	*Lighting Circuits, Accessories.

Technical Training Centre R22F

Course: FIELD ARMY EQUIPMENT S.M.S.'s COURSE.

Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.

Subject: I.C. ENGINES, C.I. ENGINES, A.V. ELECTRICAL INSTALLATION.

	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	0955 - 1035	1050 - 1130	1140 - 1220	1320 - 1400	1410 - 1450	1500 - 1540	1555 - 1635	1645 - 1725
	*Ignition Timing, Magneto & Coil.	*Setting Ignition, Timing Faults.	*Sequence of Dismantling Engines.	*Examination & Dismantling Engine.	*Lubrication Types of Systems.	*Oil Pumps, Types of Oil Filters.	*Examination of Lubrication System.	*Checking Main & Big End Bearings.
of	*Examination of Pistons, Working Clearances.	*Valve Timing.	* tappet Adjustments, Symptoms of incorrect Valve Timing.	*Cylinder Heads, Gaskets etc.	*Assembly of Engine.	*Cooling Systems, Pumps, Thermostats, Anti-freeze.	*Special features of individual Engines.	*Consolidation of work covered.
or.	*Compensation & why it is necessary.	*Compensation as applied to Zenith Carburettor.	*Compensation as applied to Solex Carburettor.	*Easy starting devices.	*Fuel Supply Systems.	*Ventovac, Description & Operation.	*Mechanical & Electrical Fuel Pumps.	*Filters, faults in Fuel Systems.
C.I. ENGINES				RECREATION				
	*Governors & their Operation.	*Fuel Injectors, Types & Operation.	*Filtration on C.I. Engines.					
L IGNITION	*Methods of obtaining Advance & Retard.	*Ford V.C. Distributor, American & Lucas types.	*Magneto, Method of obtaining H.T. Current.	*Rotating Armature Magneto.	*Rotating Magnet Magneto.	*Sparking Plugs, Heater Plugs, Suppression Equipment.	*Ignition faults, remedies.	62/4
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H.T. spark at								
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	Voltage & Current Regulators.	*Adjustment of Regulators.	*Cut Out, Purpose & Operation.	*Charging Circuit, Faults & Repair.	*Types of Starter Motors & Settings.	*Lighting Circuits, Accessories	* LEAD ACID BATTERIES. Construction & Operation, Maintenance.	
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Duration of Course - 4 Weeks.

Week of Course - 2nd.

14 Technical Training Centre RM12.

Course: FIELD ARMY EQUIPMENT, E.M.E.'s COURSE.

Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.

Subject: VEHICLE TRANSMISSION, C.I. ENGINES & MOTOR CYCLES.

PERIOD	0710 - 0730.	(1) 0815 - 0855	(2) 0905 - 0945	(3) 0955 - 1035	(4) 1050 - 1130	(5) 1140 - 1220	(6) 1320 - 1400	(7) 1410 - 1450	(8) 1500 -
THU.	PHYSICAL TRAINING	*Clutches, Purpose & Operation.	+ Dismantling, assembling & adjusting Clutches. Rectifying possible faults.	*Purpose & various types in use.		---PUR TYPE---	*Dismantling & re-assembly.	GEAR BOXES CONSTANT & SYNCHRO	+Dismant & re-asse
FRI.		*Types, Details of Operation & Construction. Differential Gearing & its object.	+ Practice in dismantling, re-assembling & adjusting.		REAR AXLES		Lubrication Oil Seals, Faults.	Transmission Shafts, Types of Universal Joints.	+Dismant & re-asse
SAT.		*Brakes, Object & Types.	*Lockheed System, Details of Construction.	LOCKHEED BRAKES. Practice in Dismantling, re-assembling, Bleeding & adjusting.		*Girling & Bendix Cordw. Detail of Construction.	+ GIRLING & BENDIX CORDW. Practice in Dismantling Re-assembling & adjusting systems & Linkages.		*Bendix Cordw. Construction & Maintenance
SUN.	PRACTICAL WORK - C.I. ENGINES	+Timing Fuel Pumps to Engines.		*Injectors, Types, Examination of parts.	*Examination of Fuel System etc.	*Dismantling & cleaning of Filters.	R & C R J. T.		
MON.		FRONT AXLES		*Steering Primary consideration	*Ackerman. Linkage.	*Caster, Camber, Centre Pant Steering & Toe-in.	*Steering Boxes, Types & Construction.	+Practice in dismantl re-assembling & adjust steering Boxes and adjusting Wheels for Toe-in.	
TUE.		*Types & Description.	*Checking for Alignment.	*Two Stroke Engines & Ignition.		*Dismantling, re-assembling 2 stroke Engine.	*Four Stroke Engines.	*Dismantling & re-assembling Four Stroke Engines including Valves & Ignition.	*Gear Boxes & Clutches, Description & types.
WED.	MOTOR CYCLES	* of army types.	*Two Stroke Engines & Ignition.	+Dismantling, re-assembling 2 stroke Engine.		*Four Stroke Engines.	+Dismantling & re-assembling Four Stroke Engines including Valves & Ignition.		*Gear Boxes & Clutches, Description & types.
THU.		* of army types.		+Dismantling, re-assembling 2 stroke Engine.		*Four Stroke Engines.	+Dismantling & re-assembling Four Stroke Engines including Valves & Ignition.		*Gear Boxes & Clutches, Description & types.

14 Technical Training Centre (RML).

Course: FIELD ARMY EQUIPMENT, S.M.S.'s COURSE.

Section: OFFICER, 'B' VEHICLES, REPAIR & INSPECTION.

Subject: VEHICLE TRANSMISSION, C.I. ENGINES & MOTOR CYCLES.

	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	0945	0955 - 1035	1050 - 1130	1140 - 1220	1320 - 1400	1410 - 1450	1500 - 1540	1555 - 1635	1645 - 1725
Disassembling, assembling Clutches. Working possible		*Purpose & various types in use.	-----PUR TYPE----- * Operation.	+Dismantling & re-assembly.	CONSTANT & SYNCHRO MESH. * Operation.	+Dismantling & re-assembly.	TRANSFER & POWER TAKE OFF * Operation.	+Dismantling & re-assembly.	
		REAR AXLES + Practice in dismantling, re-assembling & adjusting.		Lubrication Oil Seals, Faults.	Transmission Shafts, Types of Universal Joints.	+Dismantling & re-assembling Universal Joints.	*Types of Springs, Faults & repairs.	*T.D. Suspension Shock Absorbers, Operation & adjustment.	
		LOCKED BRAKES. + Practice in Dismantling, re-assembling, Bleeding & adjusting.	*Girling & Bendix Cordw Detail of Construction.	+ GIRLING & BENDIX CORDW. Practice in Dismantling Re-assembling & adjusting systems & Linkages.	*Bendix & servo Unit. Construction & Maintenance.	+Dismantling, re-assembling & adjusting Bendix & servo systems.	*Brake relining, Brake Faults & remedies.		
		PRACTICAL WORK-C.I. ENGINES							
		+Injectors, Types, Examination of parts.	+Examination of Fuel System etc.	+Dismantling & cleaning of Filters.	RECREATION				
		*Steering Primary considerations	*Ackerman. Linkage.	*Caster, Camber, Centre Point steering & Toe-in.	*Steering Boxes, Types & Construction.	+Practice in dismantling, re-assembling & adjusting steering Boxes and adjusting wheels for Toe-in.	*Front wheel Drive. Special considerations	+Practice in dismantling Front wheel Drive & Steering & Assemblies.	
		MOTOR CYCLES							
		+Dismantling, re-assembling 2 stroke Engine.	*Four Stroke Engines.	+Dismantling & Re-assembling Four Stroke Engines retaining valves & Ignition.	*Gear Boxes & Clutches, Description & types.	+Dismantling & assembling Gear Boxes & Clutches.	*Chains, front forks, & steering Damper.	+Checking alignment.	

Duration of Course - 4 WEEKS.

Week of Course - 3rd.

14 Technical Training Centre 1943.

Course: FIELD ARMY EQUIPMENT, B.M.W.'s CO. 1943.

Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.

Subject: DIAGNOSIS OF FAULTS, TASK SYSTEM, TYRES & WHEELS.

PERIOD	0710 -	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
DAY	0730.	0815 - 0855	0905 - 0945	0955 - 1035	1050 - 1130	1140 - 1220	1320 - 1400	1410 - 1450	1500
ED.	PHYSICAL TRAINING.	-----DIAGNOSIS OF ENGINE FAULTS-----							
		+	Ignition, Valve, and Valve Timing. Location & Rectification.						
THURS.		+	-----DIAGNOSIS OF ENGINE FAULTS-----						
			Fuel, Lubrication and Cooling Systems. Location and Rectification.						
FRI.		+	-----DIAGNOSIS OF ELECTRICAL FAULTS-----						
			Charging, Lighting & Starter Circuits. Location and Rectification.						
SAT.		-----TYRES & WHEELS-----						-----R & C R-----	
		*Types in use in Service.	*Constructional Details of Service Tyres.	*Causes of excessive wear.	*Synthetic rubber Tyres & Tubes.	*Vulcanising Equipment.			
MON.	PHYSICAL TRAINING.	*General Consideration	* Detailed description of Daily Task System for Vehicles and Motor Cycles.					+Practical work in carrying out	
			-----TRANSMISSION FAULTS-----						
		*Considered & of possible	+	-----Diagnosis of faults and their remedy on run					

14 Technical Training Centre 3007.

Course: FIELD ARMY EQUIPMENT, I.M.S. COURSE.

Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.

Subject: DIAGNOSIS OF FAULTS, TASK SYSTEM, TYPES & REPAIR.

	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
945	0955 - 1035	1050 - 1130	1140 - 1220	1320 - 1400	1410 - 1450	1500 - 1540	1555 - 1635	1645 - 1725

DIAGNOSIS OF ENGINE FAULTS

Ignition, Valve, and Valve Timing.
Location & Rectification.

DIAGNOSIS OF ENGINE FAULTS

Fuel, Lubrication and Cooling Systems.
Location and Rectification.

DIAGNOSIS OF ELECTRICAL FAULTS

Charging, Lighting & Starter Circuits.
Location and Rectification.

REPAIR & MAINTENANCE

Causes of excessive gear. worn.	*Synthetic rubber Tyres & Tubes.	*Vulcanising Equipment.
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REGISTRATION

INSPECTION, MAINTENANCE & CARE OF ARMY VEHICLES

Detailed description of Daily Task System
for Vehicles and Motor Cycles.

Practical work in carrying out all tasks on running vehicles. 62, 2

TRANSMISSION FAULTS

Diagnosis of faults and their remedy on running vehicles.

Duration of Course - 4 Weeks.
Week of Course - 4th.

14 Technical Training Centre REGT.
Course: FIELD ARMY EQUIPMENT, S.M.S.'s COURSE.
Section: OFFICERS 'B' VEHICLES, REPAIR & INSPECTION.
Subject: INSPECTION, REVISION, EXAMINATION.

PERIOD	0710 -	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Day.	0730.	0815 - 0855	0905 - 0945	0955 - 1035	1050 - 1130	1140 - 1220	1320 - 1400	1410 - 1450	1500
LD.	TECHNICAL TRAINING	*Introduction to AB.412. AB.406. AF.932.	* Detailed consideration of all points to cover in routine Inspections.				+ Practical 406 Inspections		
TRNG.		-----INSPECTION PROCEDURE----- + Practical 406 Inspections of Running Vehicles.							
PT.		* ----- Completion of 406 Inspections by Road Tests. -----						* Completion of fair copies of reports	
LT.		* Explanation of Army Forms, Pamphlets and A.C.I.s. in common use in Workshops.						-----REVISION-----	
ON.	TECHNICAL TRAINING	* ----- Revision of Electrical Components & Circuits -----					* ----- General Revision -----		
EX.		* ----- EXAMINATION -----				* ----- Discussion of Examination -----			

14 Technical Training Centre RMR.
 Course: FIELD ARMY EQUIPMENT, S.A.A.'s COURSE.
 Section: OFFICER 'B' VEHICLES, REPAIR & INSPECTION.
 Subject: INSPECTION, REVISION, EXAMINATION.

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
- 0945	0955 - 1035	1050 - 1130	1140 - 1220	1320 - 1400	1410 - 1450	1500 - 1540	1555 - 1635	1645 - 1725

INSPECTION PROGRAM

Detailed consideration of all points to cover
 in routine inspections.

+ Practical 406 Inspections of Running Vehicles.-----

INSPECTION PROGRAM

Practical 406 Inspections of Running Vehicles.

INSPECTION PROGRAM

406 Inspections by Road Tests.-----

* Completion of four copies of AB.406 & discussion of Trainees
 reports.

Way Forms, Pamphlets and A.C.In. in common
 use in Workshops.

RECREATION

Electrical Components & Circuits-----

* -----General Revision-----

* Discussion with O.i/c
 Section.

INATION-----

* -----Discussion of Examination Paper-----

6272

*Lesson 2/43D/1.

14 Technical Training Centre RMR.
Field Army Equipment E.M.S.'s Course - Officers 'B' Vehicles, Repair & Inspection.

Subject: Clutches - Purpose & Operation.

PLACE or ROOM : Hutt 21.

TIME	PHASE.	SUBJECT MATTER	
3 mins.	Approach	Function of the Friction Clutch, Necessity of Clutch between the Power Unit and the Vehicle Transmission.	
15 mins.	Devel.	Component Parts and construction of Borg and Beck Clutch. The Operation and adjustments of same.	Full Diagram Clutch.
35 mins.	Application.	Show Clutch assemblies to Class. Strip Assemblies down and re-assemble. Name various parts and explain purpose of each.	Borg & Beck Clutch Clutch
40 mins.	Consol.	Question class on names and purpose of main parts.	

*2/ 43D/1 = Week of Course/Day/Period.

14 Technical Training Centre RML.

my Equipment E.M. 3's Course - Officers 'B' Vehicles, Repair & Inspection.
n.

SUBJECT MATTER	NOTES & AIDS.
Function of the Friction Clutch, Necessity of Clutch between the Power Unit and the Vehicle Transmission.	
Component Parts and construction of Borg and Beck Clutch. The Operation and adjustments of same.	Full Diagram of Borg & Beck Clutch.
Show Clutch assemblies to Class. Strip Assemblies down and re-assemble. Name various Parts and explain purpose of each.	Borg & Beck Assembly. Clutch Clamps.
Question class on names and purpose of main parts.	

*2/ 2D/1 = Week of Course/Day/Period.

62.0

LESSON 2/FRI/1.

Object: Brakes - Types in Use.

PLACE or ROOM : 21.

14 Technical Training Center, W. 14.
Field Army Equipment E. 14's Course - Officers 'B' Vehicles, Repair & Insp.

TIME	PHASE.	SUBJECT MATTER.	
5 mins.	Approach	Necessity for Brakes on Motor Vehicle.	
15 mins.	Level.	Types of Brakes in common use. Lockheed, Bendix Cowdry, Bendix & Girling.	Specimen Backing
35 mins.	Applic.	Show examples of each type of Brake on specimen Backing Plates pointing out advantages and disadvantages of each.	Wall dia
40 mins.	Control.	Questions on name of each system and how identified.	

* 2/FRI/1 = Week of Course/Day/Period.

14 Technic 1 Training CourseField Army Equipment E... Course - Officers 'B' Vehicles, Repair & Inspection.

SUBJECT MATTER.	NOTES & AIDS.
Necessity for Brakes on Motor Vehicle.	
Types of Brakes in common use. Lockheed, Bendix Cowdry, Bendix & Girling.	Specimen examples of 9 makes on Backing Plates.
Show examples of each type of Brake on specimen Backing Plates pointing out advantages and disadvantages of each.	Wall diagrams of various systems.
Questions on name of each system and how identified.	

* 2/PM/1 = Week of Course/Day/Period.

6269

REME SCHOOL
CORPS TRAINING WING
TRAINING INSTRUCTIONS
SYLLABUS AND DAY PROGRAMME
COURSE:- AFV OFFICERS
DURATION:- 3 WEEKS

<u>INSTRUCTIONS</u> <u>HOURS OF WORK</u>	<u>OBJECT OF COURSE AND PRE-REQUISITE OF TRAINEES</u>	<u>TRAINING</u> <u>MODEL</u>
Monday to Friday 0830-1250 1345-1755 Saturday 0830-1250 Gross weekly hours 36 $\frac{2}{3}$	(a) To refresh officers in their knowledge of Army organisation, including repair and recovery organisation. (b) To bring officers' knowledge of mines and weapons up to date. (c) To practice officers in RT, codes, and layout of workshops in the field. Officers are assumed to have come from OCTU or CTS, Rushton.	Models of M Model Lands
<u>PERIOD VALUES</u> Lessons - Theory.....40 mins Lessons - Demonstrations...40 mins. Practical - Determined by nature of practice.	<u>EQUIPMENTS TO BE COVERED BY INSTRUCTION</u> Mines, British, German and Japanese. LMG, Sten, Rifle. No 19 RT/T Set.	
<u>BREAKS</u> 10 mins following Theory and demonstration periods. 10 mins between practical periods where possible. 30 mins morning break. 20 mins mid-afternoon break.		
<u>NOTE:-</u> Military training and PT are not carried out during the first week owing to internal commitments, but are taken in subsequent weeks.	<u>OTHER INSTRUCTION</u> NIL	

ARMY SCHOOL
CORPS TRAINING WING
TRAINING INSTRUCTIONS
SYLLABUS AND DAY PROGRAMME
COURSE: - AFV OFFICERS
DURATION: - 3 WEEKS

	<u>OBJECT OF COURSE AND PRE-REQUISITE OF TRAINEES</u>	<u>TRAINING AIDS</u>	<u>FILMS</u>	<u>STRIP</u>
0-1250 5-1755 0-1250 S 40 mins ns...40 mins. by nature	(a) To refresh officers in their knowledge of Army organisation, including repair and recovery organisation. (b) To bring officers' knowledge of mines and weapons up to date. (c) To practice officers in RT, codes, and layout of workshops in the field. Officers are assumed to have come from OCTU or OTS, Rushton.	<u>MODELS</u> Models of Mines Model Landscape	C612 C447	
ry and periods. ical periods break.	<u>EQUIPMENTS TO BE COVERED BY INSTRUCTION</u> Mines, British, German and Japanese. LMG, Sten, Rifle. No 19 RT/WT Set.			
ad PT are not the first al commit- in subse-	OTHER INSTRUCTION NIL			

62-8

REME SCHOOL
CORPS TRAINING WING
COURSE:- AFV OFFICERS
DURATION:- 3 WEEKS
SCHEDULE OF INSTRUCTION.

WEEK	SUBJECT
1	Army Organisation; Ranks, Trades; Administration; REME Appointments; Combined Operations; Supply; Messages; RAMC Organisation; Low Grade Ciph Repair and Recovery Organisation; Lecturettes; MT Accident Procedure.
2	RT Procedure; Movement by Road; Codes; Warfare in Far East; Workshop Layouts; Tactical Handling of Units and REME; Tropic proofing of equipment; Rifle; LMG; Map Reading; Miniature Range; Drill; Mines; PT.
3	Exercise on repair and recovery organisation and administration; Map Reading; Mines, Drill; PT; 30 yds Range; Military Law; Examinations.

REME SCHOOL
CORPS TRAINING WING
COURSE:- AFV OFFICERS
DURATION:- 3 WEEKS
SCHEDULE OF INSTRUCTION.

SUBJECT

Army Organisation; Ranks, Trades; Administration; REME Appointments;
Combined Operations; Supply; Messages; RAMC Organisation; Low Grade Cipher;
Repair and Recovery Organisation; Lecturettes; MT Accident Procedure.

RT Procedure; Movement by Road; Codes; Warfare in Far East; Workshop
Layouts; Tactical Handling of Units and REME; Tropic proofing of
equipment; Rifle; LMG; Map Reading; Miniature Range; Drill; Mines; PT.

Exercise on repair and recovery organisation and administration;
Map Reading; Mines, Drill; PT; 30 yds Range; Military Law; Examinations.

REME SCHOOL
CORPS TRAINING WING
COURSE:- AFV OFFICERS
SUBJECT:- CORPS TRAINING

WEEK	SYLLABUS	PERIODS	LECT
1	OPENING ADDRESS. ARMY ORGANISATION. The Light Division; the Armoured Division; the Ariborne Division; the Infantry Division; outline of Corps and Army. RANKS, TRADES. Including promotions, all in REME. MT ACCIDENT PROCEDURE. ADMINISTRATION. Geographical segmentation of a theatre of operations. REME APPOINTMENTS. Appointments up to Army Group level. COMBINED OPERATIONS. REME organisations on Beaches, and in opposed landings; inter-service responsibilities. SUPPLY. Organisation of RAC, RAOC, and RASC for supply in the field. MESSAGES. Message Writing and exercise thereon. Military Correspondence. RMC ORGANISATION. Definitions and functions of RMC in the field. LOW GRADE CIPHER. Working of low grade cipher, and exercise thereon. BOOKS, PUBLICATIONS, DOCUMENTS.	7 2 2 2 1 3 5 8 2 5 2	LP 2 LP 5 LP26 LP 8 FSFB Pam LP 9 FSFB Pam LP16 Comb Pampl LP12 LP19 FSFB Pam LP17 LP20

REME SCHOOL
CORPS TRAINING WING
COURSE:- AFV OFFICERS
SUBJECT:- CORPS TRAINING

SYLLABUS	PERIODS	LECTURE PRECTS	FILM
the Armoured Division; the Airborne Division; the outline of Corps and Army.	7	LP 2	
ans, all in REME.	2	LP 5	
	2	LP26	
ntation of a theatre of operations.	2	LP 8 FSEB Part II Pamphlet 6	
Army Group level.	1	LP 9 FSEB Part II Pamphlet 4a	
on Beaches, and in opposed landings; inter-service	3	LP16 Combined Operations Pamphlets	CL47
OC, RAOC, and RASC for supply in the field.	5	LP12	
nd exercise thereon. Military Correspondence.	8	LP19 FSEB Part I Pamphlet 4	
unctions of RAMC in the field.	2	LP17	
ade cipher, and exercise thereon.	5		
OCULENTS.	2	LP20	

/contd..

6206

- 2 -

REME SCHOOL
CORPS TRAINING WING.
COURSE:- AFV OFFICERS
SUBJECT:- CORPS TRAINING.

WEEK	SYLLABUS	PERIODS	LECTURE
1	REPAIR AND RECOVERY ORGANISATION LAD's, Brigade Workshops, Troops Workshops, and specialist Workshops; recovery companies; VE's, and functions.	7	LP7 MTP 9 P
	MOVEMENT BY ROAD March discipline; march tables; organisation for a move; control on the move.	3	LP27 FSEB P FS&B P
	LECTURETTES	5	
2	RT PROCEDURE The No 19 Set; layout of RT nets; exercise on speech and procedure in RT communication.	5	LP 32
	CODES Slidex; Maplay; Codex; signal codes	2 2	FSEB P
	WAREFARE IN FAR EAST TROPIC PROOFING Conditions to be contended with; methods of combatting moisture, heat, and fungus.	4	LP36
	WORKSHOP LAYOUTS Considerations affecting the siting and layout of various types of workshops. Practical layouts. Procedure for accepting and progressing through the workshops.	6	IP's
	TACTICAL HANDLING OF REME Tactical role of units; tactical handling of REME in the field; administrative areas; rear divisional areas.	4	IP11 MTP 9
	WEAPON TRAINING LMG; RIFLE; Sten; firing on miniature range	10	SEE V Pamph

- 2 -

REME SCHOOL
CORPS TRAINING WING.
COURSE:- AFV OFFICERS
SUBJECT:- CORPS TRAINING.

SYLLABUS	PERIODS	LECTURE PRECIS	FILM
ORGANISATION e Workshops, Troops Workshops, and specialist recovery companies; WE's, and functions.	7	LP7 MTP 9 Part 5	
line; march tables; organisation for a move; e move.	3	LP27 FSPB Part I Pamphlet 9 FSB Part II " 5	C612
	5		
t; layout of RT nets; exercise on speech and RT communication.	5	LP 32	
ay; Codex; signal codes	2 2	FSPB Part I Pamphlet 5	
be contended with; methods of combatting moisture, agus.	4	LP36	
is affecting the siting and layout of various types of Practical layouts. Procedure for accepting and progressing the workshops.	6	LP's 30,33,34,35	
REME of units; tactical handling of REME in the field; ve areas; rear divisional areas.	4	LP11 MTP 9 Part 5	6265
Sten; firing on miniature range	10	322 Vol I Pamphlets 3, 4, 22	/contd

- 3 -

ARMY SCHOOL
CORPS TRAINING WING
COURSE:- AFV OFFICERS
SUBJECT:- CORPS TRAINING.

WEEK	SYLLABUS	PERIODS	LECTURE
2	DRILL MINES Types of British, German, and Japanese Mines. Principles of working and neutralisation. MAP READING Map Reference Code; norths; use of compass; height.	2 8 9	Manual of Reading Notes on Reading
3	PT CLOSING ADDRESS WEAPON TRAINING Firing on 30 yard (.303) Range MILITARY LAW Army Act; courts martial; summaries of evidence. Orderly Room procedure DRILL MINES Mine detection; marking of minefields; practical work. MAP READING Compass traverse; navigation; night marching EXAMINATIONS Written and practical for regimental work; oral for Corps Training work. EXERCISE Application of lessons on repair and recovery organisation; and administrative questions. CLOSING ADDRESS	2 1 8 3 2 4 3 9 25 1	S.M.T Vol 13, 24. Army Act Regulation

- 3 -

HOME SCHOOL
CORPS TRAINING WING
COURSE:- ARMY OFFICERS
SUBJECT:- CORPS TRAINING.

SYLLABUS	PERIODS	LECTURE PRECIS	FILM
sh, German, and Japanese Mines. working and neutralisation.	2		
Code; norths; use of compass; height.	8		
	9	Manual of Map Reading Notes on Map Reading	
	2		
	1		
ard (.303) Range	3	SAT Vol I, Pamphlets 2, 13, 24.	
arts martial; summaries of evidence. procedure	3	Army Act; Kings Regulations	
	2		
g; marking of minefields; practical work.	4		
so; navigation; night marching	3		
actical for regimental work; oral for Corps Training	9		
lessons on repair and recovery organisation, and questions.	25		
	1		

6204

785020

Duration of Course:- 3 weeks
 Book of Course:- 1st

REME SCHOOL
 Corps Trg Wing
 COURSE:- AFV Officers
 SUBJECT:- CORPS TRG

Corps Training

PERIOD	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
DAY	0830-0910	0920-1000	1030-1110	1120-1200	1210-1250	1345-1425	1435-1515	1535-1615
WED	Opening Address	1 Army Org Inf Div and Arml Div	2 Ranks Trades and Promotions REME Records	1 IP5	2 Army Org Light Div	3 IP2	4 REME Appointments	IP9
THURS	5 Army Org Airborne Div, and Corps and Army Org IP2	6	7 Combined Ops, incl film. REME Beach Org	1 IP16	2 Adm in the Pd.	3 IP8 FSPB Part II Pamphlet 6	1 Sup in the Pd RAC	2 Lectures Cou
FRI	1 Message Writing LP19 FSPB Part I Pamphlet 4	2 Sup in the Pd RAC LP12	1 LP12	2 LP18	1 Mil Correspondence LP18	2 LP12	3 LP12	3 Lectures Cou
SAT	1 -----	2 Low Grade Cipher	3 LP12	4 LP17	5 LP7	RECREATION		
MON	3 Exercise, Message Writing LP19 FSPB Part I Pamphlet 4	4 LP12	5 LP17	1 RANC Org LP17	2 LP7	1 Repair and Rec Org MTP 9 Part 5 LP7	2 LP7	3 LP7
TUES	6 Message Writing Exercise Criticism	1 Movement by Road incl film LP27 FSPB Part I Pamphlet 9 FSPB Part II Pamphlet 5	2 LP27	3 LP7	4 Repair and Rec Org MTP9 Part 5 LP7	5 LP7	1 Books, Publications and Documents LP20	2 LP20

REME SCHOOL
Corps Trg Wing
COURSE:- AFV Officers
SUBJECT:- CORPS TRG

Corps Training - Hylands

(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
110-1110	1120-1200	1210-1250	1345-1425	1435-1515	1535-1615	1625-1705	1715-1755
Army Div	1 Ranks Trades and Promotions REME Records LP5	2	3 Army Org Light Div LP2	4	REME Appointments LP9	1 MT Accident Procedure LP26	2
Army Org	1 LP16	2 Combined Ops, incl film. REME Beach Org	3	1 Adm in the Fd. LP8 FSPB Part II Pamphlet 6	2	1 Lecturettes by Offrs on Course	2
Sup in the Fd RASC	2	1 Mil Correspondence LP18	2	3 Sup in the Fd RAC LP12	3 Lecturettes by Offrs on Course		
Cipher	4	5	RECREATION				
	1 RAMC Org LP17	2	1 Repair and Rec Org MTP 9 Part 5 LP7	2 3	4 Sup in the Fd RASC LP12	5	
Read in let 9 let 5	3	4 Repair and Rec Org MTP 9 Part 5 LP7	5	1 Books, Publications and Documents LP20	2	6 Repair and Rec Org MTP 9 Part 5 LP7	7

6263

Duration of Course:- 3 weeks
 Week of Course:- 2nd

REME SCHOOL
 CORPS TRG WING
 COURSE:- AFV Officers
 SUBJECT:- CORPS AND REGT TRG.

PERIOD DAY	(1) 0830-0910	(2) 0920-1000	(3) 1030-1110	(4) 1120-1200	(5) 1210-1250	(6) 1345-1425	(7) 1435-1515	15
WED	Opening Address KINGSCLERE	WT Rifle 5&6 SAT Vol I WT Stores	WT LMG 1&2 SAT Vol I WT Stores	1 Map Reading Map Room	2	1 Codes Slidex, Maplay	2	1
THURS	PT PTI Gymnasium	Mines Mines Lecture Room	2	WT Miniature Range WT Stores		1 Warfare in Far East	2	1
FRI	WT Lecture, Zeroing Lecture Room	34	4 Mines	5	1 RT Proc	2	3	
SAT	3 Map Reading Map Room	4	5 Mines Lecture Room	WT LMG 8&9 WT Stores	WT Application Fire Orders WT Stores	LP32		REC
MON	6 Map Reading Map Room	7	PT PTI Gymnasium	6 Mines Mines Lecture Room	7	Tropic Proofing of Eqpt LP36		2
TUES	8 Map Reading Map Room	9	WT Sten 1 & 2 SAT Vol I WT Stores	WT Application of Fire Practice Fire Orders WT Stores	8 Mines Mines Lecture Room	1 Tac Handling MTP9 Part 5 LP11	2	3

REME SCHOOL
COLPS TRG WING
 COURSE:- AFV Officers
 SUBJECT:- CORPS AND REGT TRG.

Regt - Kingsclere Area
 Corps- Hylands Area

(3) 1030-1110	(4) 1120-1200	(5) 1210-1250	(6) 1345-1425	(7) 1435-1515	(8) 1535-1615	(9) 1625-1705	(10) 1715-1755
WT LMG 1&2 SAT Vol I WT Stores 2	1 Map Reading Map Room	2 WT Miniature Range WT Stores	1 Codes Slidex, Maplay	2 Warfare in Far East	1 Tropic Proofing of Eqpt LP36	2 Wksp Layouts	1 Wksp Layouts LP30
Room 34	4 Mines	5 Mines	1 LP32	2 RT Procedure	3 Drill Barrack Square	4 LP30, 33, 34, 35	5
Mines Lecture Room 5	WT LMG 8&9 WT Stores 6	WT Application Fire Orders WT Stores 7	RECREATION				
PT PTI Gymnasium	Mines Mines Lecture Room	3 Mines Mines Lecture Room	1 LP36	2 Tropic Proofing of Eqpt	2 Drill Barrack Square	4 Wksp Layouts LP 34, 35	5 Wksp Layouts LP34, 35
WT Sten 1 & 2 SAT Vol I WT Stores	WT Application of Fire Practice Fire Orders WT Stores	3 Mines Mines Lecture Room	1 HTP9 Part 5 LP11	2 Tac Handling of REME	3 LP36	4 LP34, 35	6 Wksp Layouts LP34, 35

785020

Duration of Course:- 3 weeks

Week of Course:- 3rd

REME SCHOOL

CORPS TRG WING

COURSE:- AFV Officers

SUBJECT:- CORPS AND REGT TRG

PERIOD DAY	(1) 0830-0910	(2) 0920-1000	(3) 1030-1110	(4) 1120-1200	(5) 1210-1250	(6) 1315-1425	(7) 1435-1515	(8) 1535-1615
WED	10 Map Reading Map Room	11 Drill	3 Drill	9 Mines Mines Lecture Room	10 Mines	10 WT Stores	30 yard (.303) Zeroing Practice	
THURS	EXERCISE Hylands and selected area. Repair and Rec Org, Adm Problems							
FRI	EXERCISE Hylands and selected area. Repair and Rec Org, Adm Problems							
SAT	EXERCISE Repair and Rec Org, Adm Problems							
SUN	30 yard Range			WT Examination Written Lecture Room		11 Mines	12 Mines Lecture Room	4 Drill
TUES	WT Examination Practical WT Stores	12 Map Reading Map Room	3 Mil Law Lecture Room	Closing Address 'Kingsclere'		Lecturottes by Officers on Co Oral Examination		
						Hylands		

REME SCHOOL
CORPS TRG WING

COURSE:- AFV Officers

SUBJECT:- CORPS AND REGT TRG

Regt - Kingsclere Area
Corps - Hylands Area

SUBJECT:- CORPS AND REGT									
(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
1110	1120-1200	1210-1250	1345-1425	1435-1515	1535-1615	1625-1705	1715-1755		
Drill	9 Mines	10 Mines Lecture Room	WT Stores	30 yard (.303) Range Zeroing Practice					
E X E R C I S E Repair and Rec Org, Adm Problems									
E X E R C I S E Repair and Rec Org, Adm Problems									
S E Reg, Adm Problems			RECREATION						
WT Examination Written Lecture Room			11 Mines Mines Lecture Room	12	4 Drill	1 Lecture Room	2 Military Law		
Map Reading Room	3 Mil Law Lecture Room	Closing Address 'Kingsclere'	Lectures by Officers on Corps Trg Subjects Oral Examination						
			Hylands						

SUBJECT :- Trainee Armourers Course.

Land Forces Sub Comm. A.C.
M.M.I.A. R O M E.
ME/22/8
2/ Sept '46

TO :- D.A.D.M.E.
12 B.L.U.

Attached please find copy of Ministry of War
letter 5520/F/4/Add for your information.

Training/26/3

A. Blunt

A. BLUNT. Lt. Col.
Assistant Director of Mechanical Engineering.
M.M.I.A.

AE/cb

6260

File

Reg 23/9/46

TRANSLATION

FROM :- Ministry of War.

REF :- 5520/W/4/Add.

TO :- Military Territorial Commands
Hq. Central Military Schools.
M.M.I.A. for information.

Date : 7 Sept. '46

SUBJECT :- Trainee Armourers Course.

Further to letter 4594/W/4/Add.

1. - A course only for trainee armourers, in lieu of the previous "course for trainee armourers and refresher course for fitters", will commence on 1st October next at the Artillery mechanics and tradesmen School at Civitavecchia.
2. - One senior M.C.O. and two junior M.C.O. or soldiers will attend, from each regiment included in the infantry brigades and each infantry regiment not included in a division.
3. - There is no alteration as regards date of reporting and duration of course.

sgd. LIUZZI
Gen.

R.A.G.

6259

785020

22

2057

EROF V MEDY NR 140168

FROM 12 BLU 141500

TO ADME HQ MMIA ROME

GR--BT

REME3 (.) U/C (.)

REF YOUR ME/22/55 OF 9 SEP (.)

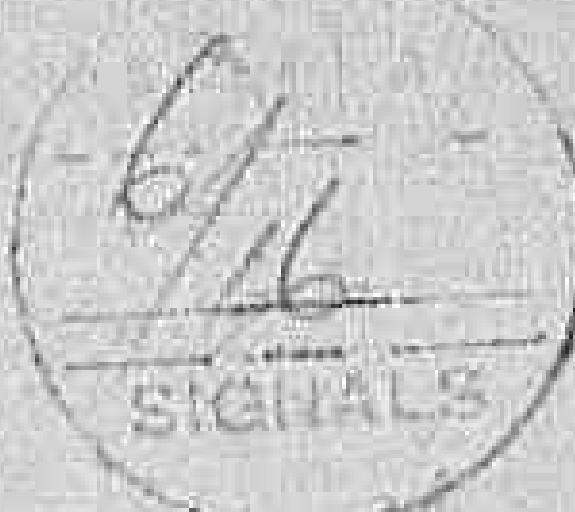
ALL 537 BOD SUN PARTS HANDED OVER TO
 ARAR (.) WILL INVESTIGATE POSSIBILITY OF
 OBTAINING FROM ARAR.

BT

SENT MS BBDE KKKK

RD NR 140168 AT 1545 EAA K

25/10/46

Recall system
FL 6 MA.

ADOS states that all
 depots are frozen
 (39 of 40)

348

RECEIVED 16 SEP 1946

Tell DAYME
12 BLU

6258

Reg 16/9/46

12

Received from Cap Rm Lande Center, Springfield
 12 9.46 2 additional tools
 used for Stocking

SPECIAL TOOLS FOR REPAIR AND RECONDITIONING OF ENGINES, ENG. ACCESSORIES

AND FUEL SYSTEM FOR MEDIUM ARMORED CAR T17E1

Section XVII T.M. 9-1741 A.

NOMENCLATURE

FEDERAL

STOCK NUMBER

MFR'S

NUMBER

Fixture, cylinder headholding

41-Y-2997-77

KM-J-1656-7

Kit, carburetor tool

41-Z-86

KM-KMO-268

Plate, press, camshaft gear

41-P-1564-50

KM-J-971

Puller, Crankshaft gear

41-P-2906-500

KM-J-1725

Puller, armorio balancer

41-P-2940-75

KM-J-1287A

Puller steering wheel

41-P-2945-55

KM-J-1618-M6

Remover, replacer and reamer
crankshaft bearing

41-R-2389-17

KM-J-1800

Remover and replacer valve guide

41-R-2389-50

KM-J-267

Replacer, crankshaft gear

41-R-2391-50

KM-J-1726

Replacer, timing gear, cover oil seal

41-R-2397-15

KM-J-995

Replacer, water pump housing seat

41-R-2330-10

Tool set, connecting rod bushing (bushing remover and replacer-burnishing
block 2 burnishing tools-broaching tool)Wrench, socket, cylinder head bolt
(close sweep) 3/4-in, hexagon

1/2-in, square drive

41-W-2964

KM-J-1602

Wrench, skt, cyl. head bolt wide sweep

41-W-187-10

KM-KMO-187-1A

Wrench, transmission main shaft nut

41-W-3710

KM-J-2292

I seguenti attrezzi, non compresi nel "Tool set" sono citati nel testo

A Special valve adjusting wrench

Torque indicating wrench

Valve seat dial indicator

Seat valve refacer

Spark plug cleaner and tester

Valve spring tester

Dial cylinder gage

41-W-3630

41-T-3383

40-V-505

40-C-1013

41-T-1600 6257

41-G-122

ME/22

See ME/22/21
 also Q 603/1
 del. 4/1/74
 per originale

Remover and replacer valve guide	41-R-2389-50	KM-J-267
Replacer, crankshaft gear	41-R-2391-50	KM-J-1746
Replacer, timing gear, cover oil seal	41-R-2397-15	KM-J-995
Replacer, water pump housing seat	41-R-2330-10	
Tool set, connecting rod bushing (bushing remover and replacer-burnishing block 2 burnishing tools-broaching tool)		
Wrench, socket, cylinder head bolt (close sweep) 3/4-in, hexagon		
1/2-in, square drive	41-W-2964	KM-J-1602
Wrench, skt, cyl. head bolt wide sweep	41-W-187-10	KM-KMO-187-1A
Wrench, transmission main shaft nut	41-W-3710	KM-J-2292
I seguenti attrezzi, non compresi nel "Tool set" sono citati nel testo		
Special valve adjusting wrench	---	---
Torque indicating wrench	41-W-3630	---
Valve seat dial indicator	41-T-3363	---
Seat valve refacer	40-V-505	---
Spark plug cleaner and tester	40-O-1013	---
Valve spring tester	41-T-1600 6257	---
Dial cylinder gage	41-C-122	---
Ridge reamer cylinder bore	41-R-2275	---
Outside micrometer	41-C-307	---
Complete rod and piston alignment fixture	---	---
Ring groove cleaner	---	---
Dial indicator rod	---	KM-J-2256

—

Already requested from GHA - Q002 of 4541

X

Additional tools req'd - Q not issued 12/4/46 (this listing)

Per 12/9/46

Additional

785020

LROF V MEAV NR 090024
 FROM :- EME 1 E L U' 071200
 TO :- ADME MMIA
 BT
 1/ EME/59 UNCLASS (.) FRAME MENTIONED
 TRANSFERRED TO EME 6 E L U ON
 31 JULY AS PER YOUR ME /22/64 OAK LEAVES
 FOLLOWING
 BT
 THI 1500
 SENT RJK 091630 AR TKS KKKKKK 303
 RD NR 090024 091630 B1

RECEIVED 10 SEP 1946
 (DATE)

10/9/46

82

4

RECEIVED

10.3.46

RECEIVED

10/10/55

FOR (A) IS THE - 1. GET (B) (C) FOR - 1. THE
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See Folder 7

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A.S. WOODRIDGE, 1946

Aug 9/9/46

Notes on
RE Training ME/02
Centre, Arborfield.

Veh Wing.
Students - 287 (25 Ofirs - 262 ORs)
Courses - 21 (2 " - 19 OR courses)
Classrooms - 11 each 15 ft x 60 ft
Workshops - 10 - see below
Motorcycles - (2 is classroom) 150 ft x 25 ft.
Workshop practice - 30 ft x 15 ft.
Engines - 150 ft x 25 ft.

Technical
SR Clutches and gearboxes 30 ft x 90 ft.
SR Transmissions and rear axles "
SR Removal of major assemblies "
SR Brakes and steering "
SR Examn. & inspection of vehs "
SR Running engines (fault finding) "
SR Stripped chassis (brakes, steering, axles) "

38 Instructors plus supervisory, clerks admin ect. personnel.

Armt. Wing.
Guns - Students - 90 (11 Ofirs 79 ORs)
Courses - 11
Classrooms - 2 each 35 ft x 50 ft.
Workshops - 1 (bench work)
1 (machine shop)
1 (blacksmith & welders)
each 35 ft x 70 ft.

N.B. Seven of each type of important machine tool in the machine shop.
Model rooms - 1 (recoil systems) 20 ft x 50 ft with duplicated sectioned models
1 (pieces c/w B.M.)
35 ft x 70 ft and containing 6 defective barrels (types of faults) and 8 pieces c/w breech mechanisms.
N.B. Specially stout trestles were used.
1 (carriage room)
200 ft x 50 ft containing 12 types of complete eqpt from 6 pdr &

SR Brakes and steering " " "
 SR Examn. & inspection of vehs " "
 SR Running engines (fault finding) " "
 SR Stripped chassis (brakes, steering, axles) " "

38 instructors plus supervisory, clerks admin ect. personnel.

Armt. Wing.

Guns -

Students - 90 (11 Officers 79 ORs)
 Courses - 11

Classrooms
 Workshops

- 2 each 35 ft x 50 ft.
 - 1 (bench work)
 1 (machine shop)
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 each 35 ft x 70 ft.

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Model rooms - 1 (recoil systems) 20 ft x 50 ft with duplicated sectioned models

1 (pieces c/w B.M.)
 35 ft x 70 ft and containing 6 defective barrels (types of faults) and 8 pieces c/w breech mechanisms.

N.B. Specially stout trestles were used.

1 (carriage room)

200 ft x 50 ft containing 12 types of complete eqpt from 6 pcv & Bofors up to 3.7 AA and 155mm.

Portable lifting devices (gantry) needed for barrel changing.

6255

2/.....

Reg 5/9/46

Arms. Wing.

Students - 176
Courses - 48

- 2 -

Much of the accommodation is combined lecture and demonstration.
One hut each for.-

Rifles elementary
Rifles practical

Pistols

Bren

Bicycles

Carbines

PIAT 2 "83" mortars.

BESA 7.92 (incl. mgs.)

6 pdr (one gun to 5 students)

Revision on all eqpts

Plus examination rooms.

Each hut is 60 ft x 20 ft.

Normally one instructor / 10 students with asst. instructor
if there are more than 10 students.

Also reqd.- 100 ft testing range and enfield rest and MG
emplacement for Bren BESA (with safety stops for traverse
and elevation.)

BBSA 7.92 (incl. nvg.)
6 pdr (one gun to 5 students)
Revision on all eqpts

Plus examination rooms.

Each hut is 60 ft x 20 ft.

Normally one instructor / 10 students with asst. instructor
if there are more than 10 students.

Also reqd.- 100 ft testing range and enfield rest and MG
emplacement for Bren BBSA (with safety stops for traverse
and elevation.)

②

H.E.L.A.

1 E.L.U.

UNCLASSIFIED

ME/22/2/2

ME/22/2/2 Old Case

FOR INFO (.) PLEASE STATE LOCATION OF FRANK MONTGOMERY
 IN YOUR AREA OF 45 JULY (.) IF NOT RESEARCHED
 PLEASE CONSIDER BY HAND OR REGISTERED FACILITY TO AVOID
 RISK OF LOSS IN TRANSIT (.) NO ONE

See Folios 5

ROUTINE

H.E.L.A.

6253

A. BLUNT, Lt. Col.

7/14/46
124 5/9/46

TRANSLATION

FROM: N. of W.
 TO : MMIA
 SUBJECT: Request of special tools for repairing T 17
 armoured cars.

REF.: 39998/056274

DATE: 17 August 46

I beg you to put kindly at my disposal a complete set of tools needed for repairing T 17 E 1 armoured cars and according to list here attached.

Said tools are essentially needed by the Office for Studies and Experiments on Motorization, in order to run the tradesmen course which has to be initiated on 1st Sept. 46.

The Director, Chief of Division
 (sgd.) G. Balanzino Colonel

Spoke 24Q.

It is possible

to be all 500 AOD.

Autony 1100' Q.

that there

22/8.

See Q. 003 RAR

Declassified E.O. 12065 Section 1-402/NNDC NO

785020

I beg you to put kindly at my disposal a complete set of tools needed for repairing T 17 E 1 armoured cars and according to list here attached.

Said tools are essentially needed by the Office for Studies and Experiments on Motorization, in order to run the tradesmen course which has to be initiated on 1st Sept. 46.

The Director, Chief of Division
(sgd.) G. Balanzino Colonel

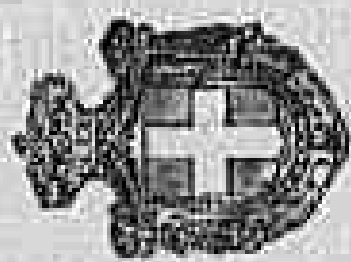
Spoke SHQ.

It is possible that these
birds are all 500 AOD.
Another 'kno' Q.

See 8003 Plar

21st August
Kagranagar
22.3

785020



Ministero della Guerra

ESPEDITORATO GENERALE DELL'ATTUALIZZAZIONE

Dir. Gen. Art. e Motoristas.

Divisione Mobilità, Sezione 2^a

Prot. N° 30998 Allegati 06274

OGGETTO: Richiesta attivazione speciale per il permesso autovalutativo T.17.

Figure 1

Si prega voler cortesemente mettere a disposizione dello scrivente una serie completa di attrezzi occorrenti per la riparazione di autotreno T. 17 di 1 di cui all'accolso elenco.

Detti apparecchi sono indispensabili all'Ufficio Studi ed Esperienze della Motorizzazione per lo svolgimento del corso specialisti, che avrà inizio il 1° settembre c.a.

IL DIRETTORE CAPO DIVISIONE
(Col. Valguarino)

Ch. 10.2. Lecture

Priority 2

Di. valency

TRANSMISSION

345

Si prega voler cortesemente mettere a disposizione dello scrivente una serie completa di attrezzi occorrenti per la riparazione di autotreno T.17 31 ai cui all'elenco allegato.

Detti attrezzi sono indispensabili all'Ufficio Studi ed Esperimenti della Motorizzazione per lo svolgimento del corso specialisti, che avrà inizio il 1° settembre c.d.

IL DIRETTORE CAPO DIVISIONE
(Col. G. Balanzino)

[Signature]

*Transmitted with
Priority 2.
Dehacker's copy
20/6*

TRANSMISSION

1845

IN { Date 21/8

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1145

OUT { 21/8

6251

ENGINE (36411A)

SPECIAL TOOLS

Nomenclature	Federal Stock Number	Mfr's Number
Fixture, cylinder head holding	41-P-2997-77	KM-J-1656-7
Kit, carburetor tool	41-K-86	KM-KMO-268
Plate, press, camshaft gear	41-P-1564-50	KM-J-971
Puller, crankshaft gear	41-P-2906-500	KM-J-1725
Puller, harmonic balancer	41-P-2940-75	KM-J-1287A
Puller, steering wheel	41-P-2954-55	KM-J-1618-M6
Remover, replacer, and reamer crankshaft bearing	41-R-2389-17	KM-J-1800
Remover and replacer, valve guide	41-R-2389-50	KM-J-267
Replacer, crankshaft gear	41-R-2391-50	KM-J-1726
Replacer, timing gear, cover oil seal	41-R-2397-15	KM-J-995
Replacer, water pump housing seat	41-R-2330-10	
Tool set, connecting rod bushing (set of five)		
Wrench, socket, cylinder head bolt (close sweep) 3/4-in, hexagon, 1/2-in, square drive	41-W-2964-700	KM-J-1602
Wrench, skt., cyl. head bolt, wide sweep	41-W-187-10	KM-KMO-187-1A
Wrench, transmission main shaft nut	41-W-3710	KM-J-2292

James Anderson
Anderson *Anderson* *9-1741A*

From American
 Distance Manual
 9-1141A
 John Manual

€250

TRANSMISSION (Cont'd)

SPECIAL TOOLS

Nomenclature	Federal Stock Number	Mfr's Number	Figure Number
Compressor, transmission oil delivery sleeve ring	41-C-2557	KM-J1537	63
Fixture, end play checking mainshaft transmission	41-P-2989-500	KM-J2297	89
Fixture, holding transmission auxiliary units	41-P-2997-87	KM-J1463	42
Gage, transmission pressure checking	41-C-446-40	KM-J1467	
Gage, adjusting rear servo	41-C-12	KM-J1460	76
Remover, lock ring, transmission shaft	41-R-2383-75	KM-J1458	37
Replacer, transmission front cover seal	41-R-2397-65	KM-J2286	58
Rod, dial indicator w/dial indicator to ~~wx~~ check runout of flywheel flywheel cover hub	41-R-2580-215	KM-J2256	74
Spacer, assembling transmission rear planetary unit	41-S-3868-70	KM-J1877	65
Wrench, adjusting rear servo	41-W-491	KM-J1459	
Wrench, transmission mainshaft nut	41-W-3710	KM-J1459	

Fixture, end play checking mainshaft transmission	41-P-2989-500 KM-J2297	89
Fixture, holding transmission auxiliary units	41-P-2997-87 KM-J1463	42
Gage, transmission pressure checking	41-G-446-40 KM-J1467	
Gage, adjusting rear servo	41-G-12 KM-J1460	76
Remover, lock ring, transmission shaft	41-R-2383-75 KM-J1458	37
Replacer, transmission front cover seal	41-R-2397-65 KM-J2286	58
Rod, dial indicator w/dial indica- tor to vx check runout of flywheel flywheel cover hub	41-R-2550-215 KM-J2256	74
Spacer, assembling transmission rear planetary unit	41-S-3868-70 KM-J1877	65
Wrench, adjusting rear servo	41-W-491 KM-J1459	
Wrench, transmission mainshaft nut	41-W-3710 KM-J2292	22 23 24
Wrench, torque indicating specifi- cations 3/8" double hexagon p opening socket capacity 0-25 pounds	41-W-3628-150 KM-J1315A	13 6249

3

TRANSFER CASE (Cont'd)

SPECIAL TOOLS

Nomenclature	Federal Stock Number	Mfr's Number	Figure No
Replacer, detent balls	41-R-2391-53	KM-J2272	101-102
Replacer, lock ring, idler, gear bearing	41-R-2394-400	KM-J2282	83
Replacer, oil seal, transfer case	41-R-2395-21	KM-J2270	98
Replacer, oil seal, transfer case	41-R-2395-18	KM-J2271	98
Replacer, oil seal, transmission reduction assembly and transfer case	41-R-2395-75	KM-J2269	82

Replacer, lock ring, idler, gear bearing	41-R-2394-400	KM-J2282	83
Replacer, oil seal, transfer case	41-R-2395-21	KM-J2270	98
Replacer, oil seal, transfer case	41-R-2395-18	KM-J2271	98
Replacer, oil seal, transmission reduction assembly and transfer case	41-R-2395-75	KM-J2269	82

6248

STEERING GEAR (Cont'd)

SPECIAL TOOLS

Nomenclature	Federal Stock Number	Mfr's Number	Figure Number
Flange, steering gear ading	41-F-2997-400	KM-J2287	116
Puller, pitman arm	41-P-2951-35	KM-J2288	107
Scale, checking knuckle support	41-S-507	KM-J1670	117

Puller, pitman arm

41-P-2951-35

KM-J2288

107.

Scale, checking knuckle

support

41-S-507

KM-J1670

117

6247

FRONT AXLE (Cont'd)

SPECIAL TOOLS

Nomenclature	Federal Stock Number	Mfr's Number
Handle for use on replacers	41-H-1074	KM-J1660-1
Puller, front and rear axle housing	41-P-2909-45	KM-J2251
Remover and replacer, tie-rod yoke bolt bushing	41-R-2381-41	KM-J2277
Reamer, tie-rod yoke bolt bushing	41-R-2253	KM-J2278
Remover and replacer, spindle (bushing used with 41-H-1074 universal drive handle)	41-R-2389-21	KM-J2279
Remover and replacer, knuckle support bearing cup (used with 41-H-1074)	41-R-2386-25	KM-J2276
Remover and replacer, spring pin and bushing	41-R-2389-26	KM-J2274
Remover and replacer, hypoid drive gear thrust bearing, front and rear axle	41-R-2386-19	KM-J2268
Replacer, oil seal, hypoid pinion drive flange, front and rear axle	41-R-2395-24	KM-J2261
Replacer, hypoid pinion thrust bearing, front and rear axle	41-R-2394-165	KM-J2255
Replacer, hypoid pinion roller bearing, front and rear axle	41-R-2394-150	KM-J2257
Replacer, hypoid pinion roller bearing lock nut, front and rear axle	41-R-2394-155	KM-J2258
Replacer, differential case bearing inner race, front and rear axle	41-R-2391-57	KM-J2250
Replacer, herringbone drive pinion roller bearing inner race, front and rear axle	41-R-2394-77	KM-J2253
Scale, 0-40 pounds, adjusting knuckle support	41-S-507-25	KM-J2293

Remover and replacer, tie-rod yoke bolt bushing	41-R-2381-41	XL-J2277
Reamer, tie-rod yoke bolt bushing	41-R-2253	KM-J2278
Remover and replacer, spindle (bushing used with 41-H-1074 universal drive handle)	41-R-2389-21	KM-J2279
Remover and replacer, knuckle support bearing cup (used with 41-H-1074)	41-R-2386-25	KM-J2276
Remover and replacer, spring pin and bushing	41-R-2389-26	KM-J2274
Remover and replacer, hypoid drive gear thrust bearing, front and rear axle	41-R-2386-19	KM-J2258
Replacer, oil seal, hypoid pinion drive flange, front and rear axle	41-R-2395-24	KM-J2261
Replacer, hypoid pinion thrust bearing, front and rear axle	41-R-2394-165	KM-J2255
Replacer, hypoid pinion roller bearing, front and rear axle	41-R-2394-150	KM-J2257
Replacer, hypoid pinion roller bearing lock nut, front and rear axle	41-R-2394-155	KM-J2258
Replacer, differential case bearing inner race, front and rear axle	41-R-2391-57	KM-J2260
Replacer, herringbone drive pinion roller bearing inner race, front and rear axle	41-R-2394-77	KM-J2253
Scale, 0-40 pounds, adjusting knuckle support trunnion bearings	41-S-507-25	KM-J2293
Wrench, pinion nut, herringbone drive, front and rear axle	41-W-1624	KM-J2267

6246

REAR AXLE (Cont'd)

SPECIAL TOOLS

Nomenclature	Federal Stock Number	Mfr's Number
Clamp, special hydraulic brake cylinder set of 4	41-C-1836	KM-J2280
Handle for use on replacers	41-H-1074	KM-J1660-1
Puller, front and rear axle housing	41-P-2909-45	KM-J2251
Remover, and replacer, hypoid drive gear thrust bearing, front and rear axle	41-R-2386-19	KM-J2268
Replacer, oil seal, hypoid pinion drive flange, front and rear axle	41-R-2395-24	KM-J2261
Replacer, hypoid pinion thrust bearing, front and rear axle	41-R-2394-165	KM-J2255
Replacer, hypoid pinion roller bearing, front and rear axle	41-R-2394-150	KM-J2257
Replacer, hypoid pinion roller bearing lock nut, front and rear axle	41-R-2394-155	KM-J2258
Replacer, differential case bearing inner race, front and rear axle	41-R-2391-57	KM-J2260
Replacer, herringbone drive pinion roller bearing inner race, front and rear axle	41-R-2394-77	KM-J2253
Remover, inner wheel bearing cup	41-R-2382-50	KM-J2275
Remover, outer wheel bearing cup	41-R-2384-39	KM-J2263
Remover and replacer, spindle (bushing used with 41-H-1074 universal drive handle)	41-R-2389-21	KM-J2279-1
Replacer, outer wheel bearing cup	41-R-2395-77	KM-J2264
Replacer, inner wheel bearing cup	41-R-2394-260	KM-J2266
Ring, lifting, turret top (set of 3)	41-R-2515	KM-J2294

bearing, front and rear axle	41-R-2386-19	KM-J2268
Replacer, oil seal, hypoid pinion drive flange, front and rear axle	41-R-2395-24	KM-J2261
Replacer, hypoid pinion thrust bearing, front and rear axle	41-R-2394-165	KM-J2255
Replacer, hypoid pinion roller bearing, front and rear axle	41-R-2394-150	KM-J2257
Replacer, hypoid pinion roller bearing lock nut, front and rear axle	41-R-2394-155	KM-J2258
Replacer, differential case bearing inner race, front and rear axle	41-R-2391-57	KM-J2260
Replacer, herringbone drive pinion roller bearing inner race, front and rear axle	41-R-2394-77	KM-J2253
Remover, inner wheel bearing cup	41-R-2382-50	KM-J2275
Remover, outer wheel bearing cup	41-R-2384-39	KM-J2263
Remover and replacer, spindle (bushing used with 41-H-1074 universal drive handle)	41-R-2389-21	KM-J2279-1
Replacer, outer wheel bearing cup	41-R-2395-77	KM-J2264
Replacer, inner wheel bearing cup	41-R-2394-260	KM-J2266
Ring, lifting, turret top (set of 3)	41-R-2515	KM-J2294
Tube, brake bleeder	41-T-4169	KM-J2252
Wrench, pinion nut, herringbone drive, front and rear axle	41-W-1624	KM-J2267

6245

WHEEL BEARINGS (Cont'd)

SPECIAL TOOLS

Nomenclature	Federal Stock Number	Mfr's Number	Figure No
Remover, inner wheel bearing cup	41-R-2382-50	KM-J2275	48
Remover, outer wheel bearing cup	41-R-2384-39	KM-J2263	
Replacer, inner wheel bearing cup and oil seal	41-R-2394-260	KM-J2265	50
Replacer, outer wheel bearing cup	41-R-2395-77	KM-J2264	49

cup	41-R-2382-50	KM-J2275	48
Remover, outer wheel bearing			
cup	41-R-2384-39	KM-J2263	
Replacer, inner wheel bearing			
cup and oil seal	41-R-2394-260	KM-J2266	50
Replacer, outer wheel bearing			
cup	41-R-2395-77	KM-J2264	49

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