



GULIELMUS D: Gratia Angliæ, scotiæ,
Franciæ, et hiberniæ REX Fidei Defensor
etc.
F. H. Van. Hove. sculp:

The Compleat

Gentleman Soldier :

O R ;

*A Treatise of Military Discipline,
Fortifications and Gunnery.*

In Three Parts.

The first treats of the Rules for the Exercise of Horse and Foot; with all the Evolutions, Wheelings, Doublings, Marches, Encampments, Intrenchments, and other Observations belonging to the whole Art of War, as now practised.

The second shews the Principles and Practice of all manner of Fortifications, Regular or Irregular, as now used by the *English, Dutch, French, German and Italian* Engineers.

The third of Gunnery, shewing the Qualification of a Ganner; with the Dimensions and Measures of the Rampiers, Parapets, Moats, Bastions, and all other parts.

The Delineations of Ravelins, Half-moons, Tenails, Horn-works, Crown-works and Cittadels.

Of Mortars, Bombs, Batteries, Approaches, Trenches, Mines, Assaults, &c.

The whole Illustrated with 19 Copper-Plates.

By an Officer in the Army.

LONDON: Printed for Thomas Ballard, at the
Rising Sun in Little Britain. 1702.

T O T H E

Illustrious and Truly Noble

Prince J A M E S,

*Duke, Marquess, and Earl of Ormond
in England and Ireland; Earl of Ossory,
and Viscount Thurles; Baron of Arclo;
Lord of the Regalities and Liberties of
the County of Tipperary; Baron of Lan-
thony; Earl of Brecknock; Chancellor
of the University of Oxford, One of
the Lords of the Bed-Chamber to His
Sacred Majesty, Knight of the most No-
ble Order of the Garter; and One of His
Majesty's most Honourable Privy Coun-
cil.*

May it please your Grace,

THis small Treatise, which
the imperfection of other
performances of this Nature, and
the

Epistle Dédicatory.

the present apprehensions of a War, encourag'd me to publish this, which comes with all possible Submission, to implore your Protection. 'Tis your Grace's approbation alone, that can free it from censure and contempt; such is your distinguishing Excellency in all Military, as well as peaceful Virtues, added to a Noble Birth, and charming Temper; that all the Sons of War take their measures from your Nod. Whatever your Grace, or Favours, will infallibly meet with a kind reception; and without your countenance, nothing of this Nature will be acceptable. I am very sensible, that this performance is lame and unworthy of your Patronage; but considering that it has fewer imperfections,

ctions,

Epistle Dedicatory.

ctions, than those that went before it; and that the publication is now very seasonable, I hope your goodness will overlook its imperfections, and pardon the presumption of.

May it please your Grace,

your Graces most devout

and most obedient Servant,

J. H.

THE

PREFACE.

THE necessity and usefulness of a Treatise of the Military Discipline and Arts, is too evident to need a Proof. As the Liberties and Properties we now enjoy, were preserved by the Valour and Conduct of our Ancestors; so we must make use of the same means, to transmit them entire to our posterity. We never had greater occasion, to Arm our selves with resolution, and warlike knowledge of Military Arts, than in the present juncture; in which eminent danger threatens the
Li-

The Preface.

Liberties, not only of England, but of all Europe. 'Tis presumed, this Treatise may be useful, on this occasion: The Exercise of Horse, Foot, and Dragoons, is here more compleat, than in any other Treatise extant upon the Subject; and withal very suitable to the modern way of Exercising, both in Brittain and France.

*The alterations that have hap-
pened in the way of Exercise, have
rendred many good Treatises, useless
upon which account I have taken care to
furnish the Reader with, a nice account
of all the innovations in the military way.
The Treatise of Exercise is followed by
a short view of Fortification and Gun-
nery; which I hope will answer the ex-
pectation of the Reader: and the whole
is illustrated with 18 Copper Plates.*

The

T H E
MAJOR or ADJUTANT;

Necessary Observations for Soldiers.

1st. **S**oldiers are to appear on the Parade, or *Place des Armes*, appointed by their commanding Officer, with their Arms very clean, and in good Order.

2dly, They are to have clean Linnen, clean Shoes and Stockings, their cloaths whole and unspotted, their Hair or Perriwigs tied up in Bags, their Hats briskly cockt; for nothing recommends a Soldier more to his Officer, than the decency and nearness of Apparel.

3dly, The Serjeants are to command them to form a Hay or Rank, at which time they are to shoulder their Musquets,

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and

and draw up in a straight Line, the Serjeants walking along the Hay, with their Halberts Parallel to the Soldiers Bodies, ordering them to advance or fall back as they think convenient.

4thly, The Musquet is to be carried on the left Shoulder, and the left Hand upon the butt end, the Thumb about 4 Inches lower than the hollow thereof, with the Arm bended, and join'd close to your side, which makes your Musquet lay firmer on your Shoulder; the Lock must be turned upwards, so that the lower part of the Butt-end be right with the middle of your Body, and in this Position your Musquet is easier carried.

5thly, You are to stand with a streight Body holding up your Head without moving, looking towards your commanding Officer, having no private discourse or signs.

6thly, You are to camp large, and firm with your Feet at one step or pace distance, your Heels being in a streight line, and Toes turn'd a little outwards.

The

The Soldiers being thus posted into a Hay, are to be form'd into Ranks, and consequently into a Company; the Serjeant beginning at the right hand, saying to the right hand Man, you stand; and then passing so many Men, until he comes to the Man that will be on the left Hand of the rank, saying to him *you March*, and so on, until he comes to the left Hand Man of the whole Hay; then the Serjeant giving the Officer an account what he hath done, the Officer takes his half Pike, and posteth himself on the right Hand of the Hay, about six paces from the Corporal, whose Post is on the right hand of the Hay, then the Officer commanding silence, gives the word of Command, *To the right Hand form your Ranks*. The Soldiers all silent and attentive, moves not until the Officer gives out the word *March*, then the right Hand Men stand, the left Hand Men wheel, so the Company is formed, then marching to the place of Exercise, the Pikemen having their Pikes advanc'd; are to be posted on the left Hand of the Musqueteers of their respective Companies, then the Battalion is to be formed, and the Companies post-

ed according to their Seniority, by the Major on Horseback or Adjutant.

First, the Colonel's Company is to be posted on the right Wing. 2dly, The Lieutenant Colonel's Company on the left Wing. 3dly, The Majors Company on the right Wing next the Colonel's Company. 4thly, The eldest Captains or fourth Company on the left Wing next the Lieutenant Colonel's; and so all the rest of the Companies are to be posted on the right and left Wings, according to the Seniority of their Commissions, until at last the youngest Company fall in the Centre.

Then it must be observed particularly before you form the Battalion to draw out the odd Men, forming them in so many Files as they can make, which are to be posted on the left of the right Wing Shot, or on the left of the left Wing Shot, or where the Major or Adjutant thinks convenient, and the Supernumerary Men are to be formed in a rank fifty paces distant from the Battalion. The Files being compleat, Musquets shouldered, and Pikes advanced, the Battalion is to be formed by the proper words of command,

mand,

mand, *viz.* 1st. *Have a care to form the Battalion,* 2d. *Musqueteers to the right and left outwards,* 3d. *Pikes to the right and left inwards,* 4. *March, interchanging Ground:* Upon the Interchange of Ground by the Pikes and Musqueteers; the first Rank of Pikes must pass before the first Rank of Musqueteers, both moving their left Feet first, and it is carefully to be observed that when the words of Command are given, that no Man move, until the word *March* be pronounced, then the Soldiers are to march without noise or clashing of Arms, and having interchanged their Grounds, are not to face to their Leaders, until the word of Command, *as you were* be given; then facing to their proper Front they are in Battalia at close order in File, and the Officers have no respect to their particular Posts or Companies, but to the whole Battalion. The Adjutant must take notice how many Serjeants are present; and if the Battalion contain 8 or 10 Companies, or a bigger number, and every Company 2 Serjeants, and 3 Corporals designed to do the duty of Serjeants, 2 must necessarily

cessarily be placed on each Rank, to the Right and Left, and the others must have their Stations in the Rear, but if the Serjeants be not so many then there will be allowed but one to each rank, to the Right and Left, and the rest in the Rear, making a Parallel Rank to the Souldiers keeping Three Paces distance from the Rank.

The Serjeants thus placed, the Drums must stand one half on the Right, and the other half on the Left, that they may range directly with the first Rank of the Souldiers; but if the Drums be more than usual, and the Ground be strait, then they may be disposed in two Ranks, on the Right and Left, ranging with the two first Ranks of Souldiers, ever slinging their Drums, unless contrary Command be given. The *Hoitboys*, if there be any, are to take the right of the Drums, which are on the right of the Battalion, ranging with them in the same Ranks.

The Officers are to take their places at the Head of the Battalion, as the Colours are drawn; but more of this hereafter. In this close Order, the Ranks, by the care of the Serjeants, are to have 12 large
Feet

Feet distance between Rank and Rank, which must be kept very even, the Adjutant is to place himself about Forty paces distant from the Centre of the Pikes.

As to the Words of Command, they must be given with deliberation, lest Commanding too fast put the Souldiers into Confusion; Silence being Com-manded, the next Word of Command is,

Files, open to the Right, (or to the Left) to your Order. *March.*

At these Words each Souldier turns to the hand mentioned, and after a short stand, the Flanking Serjeants leads the Ranks, (which by this means are Files) marching slowly forward by short steps, the Serjeants with advanced Halberts, the Iron uppermost; every Man, if they move to the Right, observing the Left-hand Man, if to the left, the contrary, and as soon as the last Man but one of the first Rank stirs, the Command is to be given for them all to *Halt.* And in proceeding to open Files after this manner, no Man ought to move till his Lea-

der be at four Foot distance, and then to move with equal pace, and keep the distance; so that when faced to the proper Front, there will be three Foot space between them: The Word of Command to *Halt* given, the succeeding Word of Command is,

To your Leader.

In this Case, the Captains and Lieutenants are to carry their Pikes comported, ever when they move to the Right, or Left; the Ensigns being advanced, the Ranks must also be kept even at twelve Feet distance, which is the Serjants Care; the Files must likewise be at Three Feet distance, each having regard to his right and left-hand Man.

To draw the Officers from the Front of the Battalion to the Rear; these words must be used, *viz.*

Have a care of the Exercise.

Upon this, the Musqueteers are to draw off their right-hand Gloves, and put them in their fore-pockets. The next Words are, *viz.*

Officers,

Officers take your Posts of Exercise in the Rear. March.

Upon this, the Officers must face to the right-about, the Captains marching a pretty swift pace in the one Ranks, and the Lieutenants and Colours in another, two paces behind; Captains and Lieutenants carrying their Pikes Advanced; being in the Rear, the Lieutenants and Ensigns are to take their places in a Rank, twelve Feet from the Serjeants, the Captains thirteen paces from the last Rank of Souldiers, and the Lieutenants and Colour eleven; and at this Word of Command, or further signal from the Officers, to take their Posts of Exercise in the Rear, six Serjeants of the Rear must march thorough the Intervals of the Files, posting themselves in the Front, forty six paces from the first Rank of Souldiers, being advanced six paces before the chief Commandent, making by their ranging a Parallel Line with the Battalion, keeping the Front free, and undisturbed. This Word being likewise given, the Pike-men must

Join

joyn their left-hands to their Pikes, placing them even with their Shoulder.

We suppose the Musqueteers to have Shouldered, and the Pikes Advanced, none are to speak after Silence is commanded, but the Officer in Chief, who thus proceeds :

1. Order your Pikes. 2. To the Right, to the Right, to the Right, to the Right, to the Right-about, as you were; To the Left, to the Left, to the Left, to the Left, to the Left-about, as you were.

Words of command for the Exercise of the Fire-Lock and Pike.

- | | |
|--|-------------------------|
| 1. M usqueteers, have a care of the Exercise, and carry your Arms well. | 3. Poise your Musquets. |
| 2. Joyn your right hands to your Musquet. | 4. Rest your Musquets. |
| | 5. Cock your Musquets. |
| | 6. |

6. Guard your
Pans.

7. Present.

8. Fire.

9. Recover your
Arms.

10. Half bend
your Musquets.

11. Clean your
pans.

12. Handle your
Primers.

13. Prime.

14. Shut your
Pans.

15. Blow of your
lose Corns.

16. Cast about
to Charge.

17. Handle your
Chargers.

18. Uncape.

19. Charge with
Powder.

20. Draw forth
your Scowrers.

21. Hold them
up.

22. Shorten them
to an Inch.

23. Charge with
Bullet.

24. Ram down
Powder and Ball.

25. Withdraw
your Scowrers.

26. Hold them
up.

27. Shorten them
to a Handful.

28. Return your
Scowrers.

29. Join your
right Hand under
your Locks.

30. Poise your
Musquets.

31. Shoulder your
Musquets.

32. Order your
Musquets.

33. Pikemen,
take heed.

4. Advance your
Pikes, to the Front,
Charge.

35. To the Right,
Charge.

36. To the Right,
Charge.

37. To the Right,
Charge.

38. To the Right,
Charge.

39. To the Right-
about, Charge.

40. As you were,
Charge.

41. To the Left,
Charge.

42. To the Left,
Charge.

43. To the Left,
Charge.

44. To the Left,
Charge.

45. To the Left-
about, Charge.

46. As you were,
Charge.

47. Advance your
Pikes.

48. Shoulder your
Pikes.

49. Charge to
the Front.

50. As you were,
Charge to the
Right, as you
were.

51. Charge to
the Right-about.

52. As you were,
Charge to the Left,
as you were.

53. Charge to
the Left-about.

54. As you were,
55. Port.

56. Comport.

57. Charge to
the Front.

58. Trail your
Pike.

59. Charge as
you were.

60. Advance your
Pikes.

When

When you exercise thus, it must be done altogether, and not one after another, that a whole Battalion may seem to do but one and the same Action. Then to proceed further, *viz.* *Musqueteers take heed. Poise your Musquets. Should-er your Musquets. Musqueteers make Ready;* at which time all the Postures of the Musquet are to be performed by the Musqueteers together, which readiness implies a Cocking, which must be guarded with the Thumb, least it should go off unseasonably, and the Musquets brought streight before them, with the left hands a little above the Chin. The Pike-men at the word, make ready, are likewise to bear their Pikes straight before them, and recover their left hands the height of their Ears, both of them observing when they come to this Posture, to recover their Arms before them, that they bring their right Heels to their left Insteps; and when the Pikes Charge, and the Musqueteers rest, to retire, or fall back with the right Feet in a direct Line, observing in all Charging, or Mo-
 tions

tions of the Pikes and Musquets, to take care there be no clashing of Arms.

An Explanation of the Words of Command or Postures, in Exercising the Fire-Lock, Musquet, and how they must be performed.

When you begun the Exercise of Pike or Musquet camp large and firm, that you may the better retain, the full force and vigour of your Body, still keeping your heels at the mark'd distance and parallel to the Front. The first word of Command is,

1. *Take care of your Exercise and carry your Arms well.*

Then you must with a full hand Cock your Hat, and rectifie all disorders about your head, letting your hand fall with a flap on your Thigh.

2. *Joyn your right hand to your Musquet.*

In this action the Lock being uppermost,

most; turn your Barrel towards you; and your Fingers being extended, lay your right Hand just behind the Lock, then close the butt end of your Musquet to your Shoulder, so that it may in all parts be of an equal height.

3. *Poise your Musquet.*

Here you must hold your Musquet with a hard grasp, facing to your proper Front, keeping your Musquet exactly before you, the height of your Shoulders, your right Eibow extended, and your Feet at a moderate distance.

4. *Rest your Musquets.*

In performing this, fall back with your Right Leg, the heart of your Foot being opposite to your left Heel, let your Musquet slide, or sink down to your Arm as low as possible, without stooping, receiving the Musquet directly where the Scowerer enters into the Stock, suffering your hand to touch no part of the Barrel; let it be a little sloping from perpendicular about half a foot from your side, keeping your right hand with your fingers extended behind the Lock.

5. *Cock*

5. *Cock your Musquet.*

In this doing, place the Thumb of your right Hand and your Finger behind the Trigger, and clapping it against your Thigh, Cock, keeping for the better security your Thumb upon the Cock.

6. *Guard your Musquet.*

In Guarding your Musquet, bring it in the foregoing Posture with a very quick motion straight before you to the Recover, your left hand equal with your Mouth but about half a foot distance, not stooping, nor suffering your Musquet to sink, observing in bringing up the Musquet, before which is a Recovering, to make the right Heel come to the left, keeping your Musquet right perpendicular.

7. *Present.*

In this case, fall back with your right Leg, so that the left Heel be against the middle of the right Foot, suffering the butt end to rise to your Shoulder, setting it fast, your right Elbow even with the height of the Piece, being ever ready to pull the Trigger with the
fourth

fourth Finger of your right Hand, bending the left Knee a little, and keeping the right very steady, levelling breast high.

8. *Fire.*

Here you must keep true motion in drawing the Trigger, doing it all together, so that the Fire of a Battalion may give but one Report, or appear to be no more than one Flash, the body steady, and the Musquet close to the Shoulder till the next word of Command, which is,

9. *Recover your Arms.*

Hereupon suffer the butt-end of your Musquet to sink in both hands, till it be perpendicular, the right under the Cock, and the left as high as your Mouth always upon a Recovery, bringing it up before you upon a very quick motion, turning the right Heel, so that it may come up with the left Instep.

10. *Half bend your Musquet.*

With your right Leg fall back, let the Musquet rest at once, the right Thumbs being upon their Cocks, and

the right Fingers behind their Triggers, then closing to the Thighs half bend, with your right hands placed behind the Lock, keeping them rested with fingers extended.

11. Clean your Pans.

This you may do by pressing the Ball of your Thumb into the Pan, holding the right hand behind the Lock, that the posture may the better appear.

12. Handle your Primer.

In doing this, take the little end between your Thumb and Finger, turning the great end to the back of your Hand, your Arm bearing backward.

13. Prime.

Upon priming, level your Piece exactly upon a Line, and having Powder a little bruised, strike it into the Pan as much as is convenient, the left Toe being kept upon the Front.

14. Shut your Pans.

Your Piece being level, this is done at Two Motions, first shut your Pans with your right Hands, thereafter joyn your right Hand behind the
Lock,

Lock, bringing up your Piece with a quick motion before your Face.

15. Blow off your loose Corns.

In this case, bring your Pan within four Inches of your Mouth, and blow with a strong blast, observing to do it altogether, standing upright without declining the Head, casting out your Arms, and suffering your Piece to sink from the posture it was before in.

16. Cast about to Charge.

In doing this, let your right Leg advance, turning the Barrel of your Musquet downwards, bringing it to your left side somewhat backward in your left hand, suffering none of your fingers to touch the Barrel, the Toe of the right Foot being directly to the Front, the right Heel over against the middle of the left Foot, the Musquet ballanced in the left Hand, the Muzzle to a proper Front of an equal height, half a foot from your Body, your right hand joined to the Muzzle of the Musquet, and your

Thumb extended to the side of the Barrel.

17. Handle your Charger.

This must be done with a full gripe, holding it even with the Muzzle of the Musquet underneath about an Inch from it.

18. Uncape.

Here bring it up to your Mouth without bowing your Head, then bring the Charger within an Inch of your Muzzle underneath, covering the Chargers Mouth with the ball of your Thumb.

19. Charge with Powder.

Having put the Powder with a quick motion into the Barrel, hold the Charger underneath, as before.

20. Draw forth your Scowerer.

Upon this word, let fall your Charger, and by turning your hand, draw your Scowerer at two motions, holding it level the height of your Shoulder your Arm extended, as if you were about to dart it.

21. Hold them up.

22. Shorten it to an Inch.

In this case, turning the great end of your Scowerer towards you, let it sink till within an Inch of the end, resting it against your Body somewhat below your right Breast slooping.

23. Charge with Bullet.

Having a Bullet in your Mouth, take it out with your right hand, and put it into the Barrel, placing the great end of your Scowerer just in the Muzzle of your Musquet.

24. Ram down your Charge.

Take a full grasp with your Thumb and Fore-finger from the Muzzle, your Thumb on the top of your Scowerer, keeping a handful in your hand.

25. Withdraw your Scowerer.

Your Hand and Thumb and Fore-finger being turned towards the Muzzle, clear your Scowerer at two Motions, and dart it as before.

26. Hold them up.

Here at Arms length mount your Scowerers with their small ends uppermost, holding them parallel to your Body.

27. Shorten it to a Handful.

Clap the small end of your Scowerer to your Breast, slip it to a Handful of the end, holding it a little below your right Breast slooping.

28. *Return your Scowerer.*

Upon this, put it in his proper place, without expecting any word, grasp the Muzzle of your Musquet with the right hand, your thumb being extended upon the Scowerer, keeping it half a foot clear from your Side, the Muzzles directly to front all of a height.

29. *Joyn your right Hand under your Locks.*

In this Motion, make your right hand free of the Muzzle, and bring your Piece streight before your Buttons with your left, then joyn your right under your Locks, at Arms length downwards.

30. *Poise your Musquet.*

In this case, with your left hand before you bring up your Musquet, grasp it with your right hand under the Cock, falling with your right Leg to your left, keeping it Poised directly before your Nose, being faced to the Front, your right Arm extended.

31. *Shout.*

31. *Shoulder your Musquets.*

In doing of this, take the Rule that has been mentioned.

32. *Rest your Arms.*

First joyn your right Hand below the Lock, then sloping a little, Poise your Musquet, thereafter joyn your left Hand Keeper, falling back with your right Foot.

33. *Order your Arms.*

Sink the Butt-end, at right Arms length, bringing the Barrel parallel to your right Ear, then letting the Butt-end gently fall against the out side of your right Foot, your right Hand sliding upon the Barrel, your Arms are rested.

34. *Ground your Arms.*

Turn your right Foot outwards, planting the Butt-end of your Piece against the middle thereof, then stepping forwards with your left Foot, lay your Arms easily down parallel to the rest.

35. *Take up your Arms.*

First turn your right Foot against the Butt-end of your Piece, then stepping forwards with your left Foot and

grasp your Musquet easily with your right Hand, then recovering Foot and Hand together, return to your foresaid Posture.

36. Rest your Arms.

Bring up your Piece with your right Hand, joyning your left hand about entering of the Scowerer into the Barrel, then guarding the Lock with the right Hand, and falling back with your right Foot together, making your Heels in a streight Line, and keeping your Piece free from your Cloaths, your Arms are rested.

37. Club your Musquets.

Coming up with Foot and Hand, turn the butt-end of your Piece uppermost, and joyn your right Hand under your left, without raising your Piece, then bring your left Hand under your right, raising your Piece, your right Hand being the height of your Cravat, at a little interval Shoulder, taking away your Right Hand, and letting it fall with a grace on your Thigh.

38. Rest your Arms.

Joyn your right hand above your left, and bring your Piece from your Shoulder

der

der streight before your Face, then joyn your left Hand above your right grasping outwards, so the Butt-end falls naturally in your right hand, at which time move your right Foot backward, but still in a streight Line with your left.

39. *Shoulder your Musquets.*

This Motion is formerly explained.

Instructions for Exercising the Pike, relating to the various Postures already mentioned in Command.

1. *Pike-men, take heed.*

Advance your Pikes.

IN this case, move your Pike upward in a direct Line, with your right hand near your side, your right hand well near as high as you can reach, depressing your left hand as low as you can, your fingers streight out, and raise your Pike 'till the butt-end comes to your right hand, then place it between your Breast and Shoulder, keep:

keeping your butt-end close, that it may be more firmly upright.

2. To the Front.

Place your left hand on your Pike even with the top of your Shoulder, casting your finger streight, bringing your Pike right before you with a very swift motion, drawing in your right Heel to your left Instep, keeping the Pike streight.

3. Charge.

In this posture fall back with your right Leg, suffering the Heel of your left foot to be against the middle of your right, and bring down your Pike with a quick jerk, support your Pike with your left elbow, and charge Breast high, bending your left Knee upon yielding your body forward to fix your self the firmer, holding the butt-end in the palm of your right hand, your left Toe directly pointing with the spear of your Pike, set your Feet at a moderate distance, to stand the more firm, and bring your Pike down a little beneath your breast, beware of clattering, close it to your Breast when it is Charged.

4. To

4. *To the Right*, four times.

In this doing, turn your left Toe to the right, then make your left Heel come up with your left Instep with a quick motion, recovering your Pike straight before you, then having turned, fall back with your right Leg, *Charge*, as before, &c.

Here you must, by turning your left Toe, bring it to the Right-about, bringing up your right Heel, your Pike recovered, then *Charge* being turned with much quickness.

5. *As you were*.

Bring up your left Toe by turning to the Left-about, then bringing your Pike recovered, your left hand must never be higher than your Mouth, your Feet in Order, when being turn'd, you must fall back with your right Leg and *Charge*, bringing your Pike straight up without clattering.

6. *To the Left*, 4 times. Do these as has

7. *To the Left-about*.
8. *As you were*.
9. *Advance your Pike*.
} been shewn in case
of the Right, only
observing 8 left
Motions, &c.

In

In doing this, make your right Heel come up to your left Instep, having your Pike before you, fall out with your right Foot, and bring your Pike to your right Thigh.

10. *Shoulder.*

The fingers of your left hand being extended, lay that hand on your Pike even with your Shoulder, then make your right Heel come even with your left Instep, your Pike right before you, fall back with your right Leg, and put back your right Arm as far as may be, holding your Pike about half a Foot from your side, keeping your Eye upon the Spear, and that directly to the Rear, your Pike stooped, when forsaking it with your left hand, bring in your right Leg, laying your Pike on your right Shoulder, keeping your Elbow to your Body, the butt-end about half a foot from the ground in the middle of the distance.

11. *Charge to the Front.*

Here you must fall back with your right Leg, putting back as much as may be your Arm, keeping the Spear exactly
to

to the Rear, yet setting the Pike aslope at the same height as shouldering, then bring the butt-end backwards with your left hand, turning the head with your right hand, then quit it with that hand, and take hold of the butt-end, and Charge breast high, the palm of your hand against the butt-end open, and your left Elbow under the Pike, the left Toe directly with the Spear, and when you Charge, let it be directly forward, your left Heel being just against the middle of your right Foot.

12. Shoulder as you were.

In the first place raise your Pike with both your hands, then quit it with the right, and with the left, turn the head backwards, the Spear directly with the Rear, then seize it again with your right hand as high as you can reach without straining, and stand with it from your Body aslope, bring up your right Leg, and forsaking your Pike with your left hand, lay it on your shoulder, always keeping the Spear in a direct point to the Rear, not any ways crossing others.

13. Charge

13. *Charge to the Right.*

Here you must fall back with your right Arm and Leg, keep the Spear in the Rear, sloped at the height of shouldering, turning your left Toe to the right, let the right hand fall behind the left, that the middle of your right Foot may be over against your left Heel, and in this Action bring your Pike up, and turn backwards the butt-end by your right side, then pressing it in the palm of your right hand, *Charge.*

14. *Shoulder as you were.*

Make your left Toe come to the left, and the middle of your right Foot against your left Heel, with your Pike up, then turn the head of it to the right, *viz.* directly to the Rear, doing at one motion, then with your right hand take hold of your Pike, so with both hands keep it a little distance from your Body slop'd, as when you Shoulder, then bring your right Leg up, and lay your Pike on your Shoulder.

15. *Charge to the Right-about.*

Here

Here you must with your Hand and Leg fall back, and stand with your Pike a little distance from your side, turn your left Toe to the Right-about, bringing the butt-end of your Pike to the right side, falling back with your right Leg, *Charge*, keeping the Spear of your Pike all the while to the Rear a shouldering height, being careful not to mount the Spear of your Pike higher or lower, and when you are to face to the Right-about level your Pike and *Charge*.

16. *As you were.*

Upon this word of Command, turn your left Toe to the Left-about, causing your right Foot to advance a moderate step, so that the middle of it be placed against your left Heel, bring the butt-end with your left hand by your left side, observing the Spear to be exactly with the Rear, the same height as in Shouldering, then as high as with ease you can reach, lay on your right hand, and stand with it in form, after which bring up your right Leg and Shoulder.

17. *Charge*

17. Charge to the Left.

In doing this posture, fall back with your Leg and Arm, as has been shewed in the former Chargings, turn to the left Toe, and turn the butt-end of your Pike with your left hand to the Right, then bring up your right Leg and Charge.

18. As you were.

Here you must raise the Spear with both your hands, turning the left Toe to the Right, then fall back with your right Leg and Arm, holding your Pike from your side; the Spear directly to the Rear, then bring up your right Leg and Shoulder.

19. Charge to the Left-about.

In this case, fall back with your Leg and Arm, then bring the Pike over your head with both your hands, keeping the Spear directly to the Rear at the height of shouldering, turn your left Toe to the Left-about, then bring up your right Foot, so that the middle of it may come with your left Heel and Charge.

20. Port.

21. Port.

Do this as charging the Front, but be cautious, that you sink not the Spear of your Pike so low, resting it instead of the Elbow between the Thumb and Fore-finger, keeping the Elbow close to your side.

22. Comport.

In this doing, you must bring your left hand backward as far as you may, stretching out the right, making there-upon a step forward with the right Foot, firmly grasping the Pike with the right hand as far as you can reach, not tossing the Spear too high, this done, forsake it with your left hand, bringing back your right Leg even with your Left, then close the Pike to your side, keeping the Spear about the height of your Head.

23. Charge to the Front.

In performing this, let your right Arm be extended at the same time advancing your right Leg, putting back your left hand as far as you can, bring your Pike forward, upon which give a step back with your right Leg, take hold of the butt-end with your right hand; then

D*Charge,*

Charge, Charging ever breast high.

24. *Trails the Spears behind you.*

Here you must face to the Right-about, suffering the Spear of your Pike to fall behind you, then let your right hand be quitted from the butt-end, without moving the Left; take care likewise not to strike up the Spear.

25. *Charge as you were.*

In this Exercise, turn your self to the Left-about, take the butt-end of the Pike on the palm of your right hand and Charge, keeping your Spear at an even height.

26. *Advance your Pikes.*

Here you must observe to bring your right Heel to your left Instep, as likewise your Pike before you to the *Recovery*, then fall out with your right Foot, till it come even with your Left, and by this means bring your Pike to your right Thigh.

27. *Order your Pikes.*

Raise your left hand even with the top of your shoulder, and lay it upon your Pike, your fingers stretched out, then sink your left hand, and raise your right,
and

and so raise the Pike, that when the butt end is on the ground, your right hand may be against your Eye, setting the butt-end to the Latchet of your right foot Shoe outward, and keeping the Pike near your Head; and in this Exercise suffer all the butt-ends to fall to the ground together.

28. *Lay down your Pikes.*

Here step all together with your right Legs, stoop all together with a quick motion, and lay them very straight with your right hands.

29. *Handle your Pikes.*

In this doing, step forward with your left Legs, in a quick motion, stoop all together, and extending your right hands as far as you can reach, grasp your Pike.

30. *Order your Pikes.*

Raise the Pike with your right hand, step back with your left Leg, clapping the butt-end for the more easie raising about the middle of your right Foot on the inside.

31. *Plant your Pikes.*

fall back with your right foot, then

joyn your left hand under your right raising your Pike from the ground, that you may with greater force Plant it firmer than before, with bringing up your right foot into its place.

32. *Order your Pike.*

Fall back with your right, then joyn your left Hand below your right, then raising your Pike, and letting it fall easily, bring up your right foot in its Place your Pike is ordered.

33. *Advance.*

Do this as before: And thus have we given the Practitioner in Arms, the true Postures of the Musquet and Pike distinctly, which with a little use, may perfect him in that which is so necessary to be understood by the Sons of *Mars*, from which we proceed to give further Instructions of this kind.

Directions for the Exercise of the Pike and Musquet together, by a whole Battalion, or single Company; supposing the Pikes Advanced, and Musquets Shouldered: The word of Command given, is,

I. Musqueteers make Ready.

IN this they must perform all the Postures and Motions together, till such time as they stand guarded with their Musquets before them, and their Thumbs, for the better security, on the Cocks; whereupon the Pikes are to be recovered before the Pike-men, the butt ends in the palms of their hands, and the Spears upright, their left hands no more than the height of their Mouths.

When the word *Charge* is given, then must they bring down the Musquets, and Pikes at once, being sure to turn the left Toes that way they Charge, and the Heel of the same Foot directly against the mid-

dle of the right Foot in every Charge, Charging directly forward; not at first Charging, the Pikes close to one anothers Breasts, but Charge a little way distant in bringing down the Pikes; and when they are Charged, then close them.

The Charge is, *To the Right* four times, then, *To the Right-about*, after that, *As you were*; then, *To the Left*, Charge four times, then, *To the left-about*, Charge; then, *As you were*; which you may observe in what has been laid down in the former Exercise.

Here the Pike-men must turn as the Musqueteers, bringing up their right Heels to their left Insteps, extending their Arms as they turn, bringing their Muskets straight before them, their left hand high as their Mouths, pulling back their Arms, and when they are faced, fall back with their right Legs, nor must they bring down their Arms till the Word *Charge* is given, doing it with a quick motion, and not suffering the Pikes to clatter.

Then

Then the word of Command is, viz.

Recover your Arms.

Half bend your Musquets.

Poise your Musquets.

Shoulder your Musquet.

} As before is
noted.

Hereupon the Musquets being Shouldered, the Pikes that stood Recovered, falling out with their right Legs, the Pikes are brought to their Thighs, to their Advance.

Poise your Musquets.

This Command given, the Pike-men must fix their left hands to their Pikes, about the height of their Shoulders. Then

Order your Arms.

Pikes, to your Inside Order.

Lay down your Arms.

Quit your Arms.

To the Right-about.

March.

These must be observed, as is before directed in the Exercise, which, to repeat again, would be Tautology; only thus much, when you are clear of your Arms, you must disperse, and upon the beat of Drum, run thither again with a Huzza,

your Swords drawn, and their Points upwards: Then these words of Command are given, *viz.*

Return your Swords.

Handle your Arms.

Order your Arms.

Pikes to your Out-side Order.

Advance.

These things ought to be duly considered; and in this first place, in ordering your Arms, observe to make a little stop, before the butt-ends comes to the ground, that they may fall together at once; after the Arms are laid down and quitted you must all stand up together, as if it were but one motion.

Upon marching from your Arms, step Front and Rear together with the left Feet, and march but a little distance.

Your right hands being laid on your Swords, take hold of your Scabbards with your left, and your Swords being drawn you must hold them upright before you, bringing them down at one motion; and when by Command you have returned your Swords, stand upright to your Arms, looking to your pro-
per

per Front. As for the rest, we refer you to the Exercise of the Pike, and Musquet distinctly.

Directions for the Exercise of Foot Granadiers.

THough the Granadiers in many things differ from the Musquetiers in Exercise, yet for the better part they do the same, drawing up in the same Order, Rank and File, only they seldom draw up above three deep, and supposing them to be Shouldered. The Words of Command are,

Lay your right hands on your Fire-Locks.

- | | |
|----------------------------------|---|
| 1. <i>Poise your Fire-Locks.</i> | } All these are to be done in the same manner as the Exercise of the Fire-Lock Musquet. |
| 2. <i>Rest your Fire-Locks.</i> | |
| 3. <i>Cock your Fire-Locks.</i> | |
| 4. <i>Guard your Fire-Locks.</i> | |
| 5. <i>Present.</i> | |
| 6. <i>Fire.</i> | |
| 7. <i>Recover your Arms.</i> | |

8. *Cast*

8. *Cast over to the Left* } In doing this
} they are to
} lay their right
} hands on their
} Daggers.

9. *Draw your Daggers.* } Here they
} must draw
} their Daggers,
} and hold
} them upright
} in their hands
} before them.

10. *Screw it into the Muzzle of your Fire-Lock.*

Do this so, that the flat side may be towards you, when you have recovered.

11. *Return your Arms.*

12. *Charge to the Right (four times.)*

13. *To the Right-about, Charge.*

14. *As you were.*

15. *To the left, Charge, (four times.)*

16. *To the Left about, Charge.*

17. *As you were.*

18. *Recover your Arms.*

These are to be done with a quick Motion, after the manner of the Fire-Lock Mulquet.

19. *Cast*

19. *Cast to the Left.*

Upon this, they are to seize their Daggers with their right hands.

20. *Withdraw your Diggers.*

Hereupon, hold them directly before you, the flat side to your Body.

21. *Return your Daggers.*

Upon this, put them up into the Scabbard.

22. *Poise your Lock.*

Do these as the Musqueteers do the Fire-lock.

23. *Open your Cartridge-Box, and handle your primer.*

These are easily understood, and need no direction.

24. *Prime.*

25. *Return your Primer.*

26. *Shut your Pan.*

27. *Blow off your loose Corns.*

28. *Cast about to Charge.*

Do all these as the Musqueteers.

29. *Handle your Cartridge.*

30. *Open it with your Teeth.*

31. *Charge with Powder and Ball.*

32. *Draw forth your Scowerer.*

33. *Shorten it to an Inch.*

Here