# LHMBC

LIGHTWEIGHT HANDHELD MORTAR BALLISTIC COMPUTER
MANUAL MISSIONS FORMS BOOK
Version 6.0


UNITED STATES ARMY INFANTRY SCHOOL
INFANTRY MORTAR LEADER COURSE
MTR CO 1ST BATTALION 19TH INFANTRY REGIMENT
FT. BENNING, GEORGIA 31905
AUGUST 2021

# LHMBC/MFCS DATA SHEET

For use of this form, see TC 3-22.91; The proponent agency is TRADOC.

**GEO REF**

Ellipsoid:

Datum:

Min Easting:

Min Northing:

Zone:

Hemi:

**DATA**

TGT Prefix:

MIN:

MAX:

Alarm:

☐ ON ☐ OFF

Next:

**WEAPON DATA**

Firing Unit:

mm CAR: Y ☐ N ☐

| | |
|---|---|
| Unit Name: | Unit Name: |
| Easting/DIR: | Easting/DIR: |
| Northing/DIS: | Northing/DIS: |
| ALT: | ALT: |
| AZ: | AZ: |
| DEF: | DEF: |
| Obs Num: | Obs Num: |
| Unit Name: | Unit Name: |
| Easting/DIR: | Easting/DIR: |
| Northing/DIS: | Northing/DIS: |
| ALT: | ALT: |
| AZ: | AZ: |
| DEF: | DEF: |
| Obs Num: | Obs Num: |

**SUBSCRIBERS**

FDC IP:

| Unit: | URN: | ADR: | Grid: | Alt: | Obs#: |
|---|---|---|---|---|---|
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| COMMO | A | B |
|---|---|---|
| Protocol: | | |
| Device Type: | | |
| Modulation: | | |
| Data Rate: | | |
| COMSEC: | | |
| FH Mode: | | |
| EDC Mode: | | |
| NAD Method: | | |
| NET Usage: | | |
| Num Stations: | | |
| Rank: | | |

**AMMUNITION DATA** TEMP

| | | | | | |
|---|---|---|---|---|---|
| Shell Type: | | | | | |
| Lot Number: | | | | | |
| On Hand: | | | | | |
| Received: | | | | | |
| TOTAL: | | | | | |
| RNDS Expended: | | | | | |
| RNDS Remaining: | | | | | |

**TARGET DATA**

| TARGET ID | | | CHART DATA | | FIRING CORRECTIONS | | | | FIRING DATA | | | | INTELLIGENCE | | | ROUNDS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TGT NO. | GRID | ALT | DEFL/ AZ | RG CHG | DEFL/ AZ CORR | RANGE CORR | ALT VI | ALT CORR | DEFL/ AZ | RG CHG | FUZE/TIME SETTING | ELEV | TGT DESC. | METHOD OF ENGAGEMENT | SURVEILLANCE | EXP | REM |
| | | | | | | | | | | | | | | | | | |
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# SETUP

**GEO REF**
**Ellipsoid: WGS 1984**
**Datum: WE/ WGS 1984**
**World SET UP DATA**
**Geodetic System 1984**

**POSITION ENTRY**
**GRID: FDC**
**16S GA 01528 93470**

**DATA**
**Date/Time: Current Date Time**
**Audio Alarm: Off**
**Target Prefix: AB**
**Target Number: Min 0001 Max 0100 Next 0001**

## Unit List

| Unit | Device | Obs | Wpn Mount | Mnt Az | Use Ref | Prop Temp | Zone / Square | Easting/Northing | | Alt |
|---|---|---|---|---|---|---|---|---|---|---|
| FDC | FDC | | N/A | N/A | N/A | N/A | 16S GA | 01528 | 93470 | 150 |
| A1 | Gun | | M252 | 2750 | 2800 | 70 | 16S GA | 01526 | 93419 | 150 |
| A2 | Gun | | M252 | 2750 | 2800 | 70 | 16S GA | 01563 | 93435 | 150 |
| A3 | Gun | | M252 | 2750 | 2800 | 70 | 16S GA | 01600 | 93450 | 150 |
| A4 | Gun | | M252 | 2750 | 2800 | 70 | 16S GA | 01637 | 93466 | 150 |
| F16 | FO | 1 | N/A | N/A | N/A | N/A | 16S GA | 00905 | 92350 | 175 |
| FSE | FSE | | N/A | N/A | N/A | N/A | 16S GA | 00905 | 92350 | 175 |

## Ammo. by Unit

| Unit | Lot | Shell | Quantity |
|---|---|---|---|
| A1 | A | HE M821A2-M734A1 | 100 |
| A1 | B | IL M853A1-M772 | 100 |
| A1 | C | WP M375A3-M524 | 200 |

**ENTER THE SAME AMMO FOR A2, A3, A4**

# Fire Support Coordination Measures
# FSCMs

| FIRE SUPPORT COORDINATION MEASURES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| TYPE | NAME | START | | END | | RESTRICTED AMMO | | | RADIUS | GRIDS |
| | | DATE | TIME | DATE | TIME | HE | WP | IL | | |
| FLOT | FLOT | TODAYS DATE | C / T | | INF | | | | | LL:<br>RL: |
| NFA | 3ID | TODAYS DATE | C / T | | INF | | | | | LL:<br>UL:<br>UR:<br>LR: |
| RFA | 4ID | TODAYS DATE | C / T | | INF | X | X | | 500 | C/P: |

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**Grid**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
| | | | | | | | | | | | |
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BATTLE DAMAGE ASSESSMENT (BDA): AIM POINT GRID:

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**Shift**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**Polar**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | _____ |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | _____ |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | _____ |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**Hip-Shoot**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

# LHMBC/MFCS DATA SHEET

For use of this form, see TC 3-22.91; The proponent agency is TRADOC.

**GEO REF**

Ellipsoid:

Datum:

Min Easting:

Min Northing:

Zone:

Hemi:

**DATA**

TGT Prefix:

MIN:

MAX:

Alarm:

☐ ON ☐ OFF

Next:

**WEAPON DATA**

Firing Unit:

mm CAR: Y ☐ N ☐

| | |
|---|---|
| Unit Name: | Unit Name: |
| Easting/DIR: | Easting/DIR: |
| Northing/DIS: | Northing/DIS: |
| ALT: | ALT: |
| AZ: | AZ: |
| DEF: | DEF: |
| Obs Num: | Obs Num: |
| Unit Name: | Unit Name: |
| Easting/DIR: | Easting/DIR: |
| Northing/DIS: | Northing/DIS: |
| ALT: | ALT: |
| AZ: | AZ: |
| DEF: | DEF: |
| Obs Num: | Obs Num: |

**SUBSCRIBERS**

FDC IP:

| Unit: | URN: | ADR: | Grid: | Alt: | Obs#: |
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**COMMO**

| COMMO | A | B |
|---|---|---|
| Protocol: | | |
| Device Type: | | |
| Modulation: | | |
| Data Rate: | | |
| COMSEC: | | |
| FH Mode: | | |
| EDC Mode: | | |
| NAD Method: | | |
| NET Usage: | | |
| Num Stations: | | |
| Rank: | | |

**AMMUNITION DATA** TEMP

| | | | | | |
|---|---|---|---|---|---|
| Shell Type: | | | | | |
| Lot Number: | | | | | |
| On Hand: | | | | | |
| Received: | | | | | |
| TOTAL: | | | | | |
| RNDS Expended: | | | | | |
| RNDS Remaining: | | | | | |

**TARGET DATA**

| TARGET ID | | | CHART DATA | | FIRING CORRECTIONS | | | | FIRING DATA | | | | INTELLIGENCE | | | ROUNDS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TGT NO. | GRID | ALT | DEFL/ AZ | RG CHG | DEFL/ AZ CORR | RANGE CORR | ALT VI | ALT CORR | DEFL/ AZ | RG CHG | FUZE/TIME SETTING | ELEV | TGT DESC. | METHOD OF ENGAGEMENT | SURVEILLANCE | EXP | REM |
| | | | | | | | | | | | | | | | | | |
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# SETUP

**GEO REF**

**Ellipsoid: WGS 1984**

**Datum: WE/ WGS 1984**

**World SET UP DATA**

**Geodetic System 1984**

**DATA**

**Date/Time: Current Date Time**

**Crew Response Time: 300 sec**

**Target Prefix: CD**

**Target Number: Min 0001 Max 0100 Next 0002**

**Splash: 5 sec**

**Audio Alarm: Off**

**Position Entry**

**Use #2 Gun Coordinates**

# UNIT LIST

## Polar from Base Piece A2

| Unit/Device | Obs Num | Wpn/Mount | Zone/SQR | Easting | Northing | Alt |
|---|---|---|---|---|---|---|
| A2/ Gun | N/A | M252 | 16S GA | 19432 | 96854 | 150 |

| Unit/Device | Obs | Wpn/Mount | Direction | Distance | VI |
|---|---|---|---|---|---|
| A1 / Gun | N/A | M252 | | | 0 |
| A3 / Gun | NA | M252 | | | 0 |
| A4 / Gun | NA | M252 | | | 0 |
| FDC / FDC | NA | NA | | | 0 |

**Note: All Guns have a MT AZ 4000 w/Referred Deflection 2800 Temp 70**

| Unit/Device | Obs Num | Wpn/Mount | Zone/SQR | Easting | Northing | Alt |
|---|---|---|---|---|---|---|
| F16 / FO | 1 | NA | 16S GA | 15652 | 90443 | 150 |
| FSE / FSE | NA | NA | 16S GA | 15652 | 90443 | 150 |

## Unit Lot Shell Quantity

| | | | |
|---|---|---|---|
| SEC A | A | HE M821A2- M734A1 | **400** |
| SEC A | B | IL M853A1- M772 | **400** |
| SEC A | C | RP M819 – M772 | **800** |

## SAFETY FAN
## Segment 1

| | |
|---|---|
| LLAZ | RLAZ |
| MIN CHG | MAX CHG |
| MIN RNG | MAX RNG |
| HE<br>WP | ILL<br>IR |
| EASTING | NORTHING |
| ZONE | ALT |
| DATUM | H/S |

## SAFETY FAN
## Segment 2

| | |
|---|---|
| LLAZ | RLAZ |
| MIN CHG | MAX CHG |
| MIN RNG | MAX RNG |
| HE<br>WP | ILL<br>IR |
| EASTING | NORTHING |
| ZONE | ALT |
| DATUM | H/S |

# MET MESSAGE DATA

| COMPUTER MET MESSAGE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| IDENTIFI-CATION<br>METCM | OCTANT<br>Q | LOCATION<br>LaLaLa or xxx | LoLoLo or xxx | DATE<br>YY | TIME (GMT)<br>GoGoGo | DURATION (HOURS)<br>G | STATION HEIGHT (10's M)<br>hhh | MDP PRESSURE MB's<br>PdPdPd |
| METCM | 0 | 347 | 983 | | | | 037 | 977 |

| ZONE HEIGHTS (METERS) | LINE NUMBER<br>ZZ | ZONE VALUES<br>WIND DIRECTION (10's M)<br>ddd | WIND SPEED (KNOTS)<br>FFF | TEMPERATURE (1/10 K)<br>TTTT | PRESSURE (MILLIBARS)<br>PPPP |
|---|---|---|---|---|---|
| SURFACE | 00 | 160 | 007 | 2900 | 0977 |
| 200 | 01 | 187 | 011 | 2887 | 0965 |
| 500 | 02 | 220 | 015 | 2878 | 0937 |
| 1000 | 03 | 248 | 017 | 2868 | 0893 |
| 1500 | 04 | 278 | 013 | 2852 | 0842 |
| 2000 | 05 | 320 | 011 | 2830 | 0793 |
| 2500 | 06 | 362 | 013 | 2796 | 0746 |
| 3000 | 07 | 378 | 016 | 2766 | 0701 |
| 3500 | 08 | 384 | 017 | 2737 | 0659 |
| 4000 | 09 | 399 | 020 | 2705 | 0641 |
| 4500 | 10 | 415 | 018 | 2685 | 0625 |
| 5000 | 11 | | | | |
| 6000 | 12 | | | | |

| FROM<br>TO | DATE & TIME (GMT) | DATE & TIME (LST) |
|---|---|---|
| MESSAGE NUMBER | | CHECKED |

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**Registration**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | | |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
| | | | | | | | | | | | |
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BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

# Split Section

**D35 says he can see F16 at an AZ of _____mils,**
**and A4 gun at an AZ of _____mils.**
**Conduct a Resection and determine D35's location.**

- At this point A3 and A4 move to a new firing position.

- A3 Easting _____ Northing _____ ALT. _____
- A4 is at an AZ of 2500 and 40 meters from 3 Gun A3 and A4 have a mounting AZ of 3600
- Ref Def 0700

- Zone / Sqr 16S GA

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**Split Section**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA): AIM POINT GRID:

**A3 and A4 move back to original position.**
**Verify Unit Positions**

**Unit List**

| Unit | Device | WPN Mount | Mnt Az | Use Ref | Prop Temp | Zone/SQR | Easting | Northing | ALT |
|---|---|---|---|---|---|---|---|---|---|
| **FDC** | **FDC** | **N/A** | **N/A** | **N/A** | **N/A** | **16S GA** | **19489** | **96901** | **150** |
| **A1** | **Gun** | **M252** | **4000** | **2800** | **70** | **16S GA** | **19408** | **96880** | **150** |
| **A2** | **Gun** | **M252** | **4000** | **2800** | **70** | **16S GA** | **19432** | **96854** | **150** |
| **A3** | **Gun** | **M252** | **4000** | **2800** | **70** | **16S GA** | **19463** | **96839** | **150** |
| **A4** | **Gun** | **M252** | **4000** | **2800** | **70** | **16S GA** | **19488** | **96812** | **150** |

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**Illumination**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | _____ |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | _____ |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | _____ |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____

☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | | |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA): AIM POINT GRID:

DA FORM 2399, MAY 2017 PREVIOUS EDITIONS ARE OBSOLETE. APD LC v1.00

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**Search**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | _____ |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | _____ |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | _____ |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**FPF Method 1**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | _____ |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | _____ |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | _____ |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA): AIM POINT GRID:

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**FPF Method 2**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**Quick Smoke**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

# Direct lay

## FACTORY DB

# COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

**Direct-Lay**

| ORGANIZATION | DATE | TIME | OBSERVER ID | TARGET NUMBER |
|---|---|---|---|---|
| | | | | |

☐ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

GRID _____
OT DIRECTION _____
ALTITUDE _____

SHIFT FROM _____
OT DIRECTION _____ ALTITUDE _____
☐ LEFT / ☐ RIGHT _____
☐ ADD / ☐ DROP _____
☐ UP / ☐ DOWN _____

POLAR
OT DIRECTION _____ ALTITUDE _____
DISTANCE _____
VERTICAL INTERVAL
☐ UP / ☐ DOWN _____
VERTICAL ANGLE
☐ + ☐ _____

TARGET DESCRIPTION

METHOD OF ENGAGEMENT

| FDC ORDER | INITIAL CHART DATA | INITIAL FIRE COMMAND | ROUNDS EXPENDED |
|---|---|---|---|
| MORTAR TO FFE _____ | DEFLECTION _____ | MORTAR TO FOLLOW _____ | |
| MORTAR TO ADJ _____ | DEFLECTION CORRECTION | SHELL AND FUZE _____ | |
| METHOD OF ADJ _____ | ☐ L ☐ R | _____ | |
| BASIS FOR CORRECTION _____ | RANGE _____ | MORTAR TO FIRE _____ | |
| SHEAF CORRECTION _____ | VI/ALT CORRECTION | METHOD OF FIRE _____ | MAX ORD |
| SHELL AND FUZE _____ | ☐ + ☐ - | _____ | |
| _____ | RANGE CORRECTION | DEFLECTION _____ | |
| METHOD OF FFE _____ | ☐ + ☐ - | CHARGE _____ | TOF |
| RANGE LATERAL SPREAD _____ | CHARGE _____ | ELEVATION _____ | |
| TIME OF OPENING FIRE _____ | RANGE _____ | TIME SETTING _____ | MARK TIME |
| MOC TYPE WR ☐ AMC ☐ TOT ☐ OTH ☐ | AZIMUTH _____ | | |
| | ANGLE T _____ | | |

| OBSERVER CORRECTION | | | CHART/SAFETY DATA | | SUBSEQUENT COMMANDS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEV | RANGE | TIME (HEIGHT) | DEF/ AZ | RANGE | MORTAR FIRE | METHOD FIRE | AIM AZIMUTH | DEFLECTION | CHARGE | TIME | ELEV |
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BATTLE DAMAGE ASSESSMENT (BDA): AIM POINT GRID: