British Railways Board
Mechanical & Electrical Engineering Department

VEHICLE DIAGRAM BOOK NO 120

FOR

Shunting Diesel Locomotives
**PREFACE**

A complete list of Vehicle Diagram Books is shown below, together with new or revised book reference numbers & the colours of the respective book covers. The existing diagram books covering Locomotives and Rail Crane vehicles which were previously shown with MT/reference numbers, have now received new covers in accordance with this revised numbering system.

**REVISED VEHICLE DIAGRAM BOOK NUMBERS**

<table>
<thead>
<tr>
<th>Vehicle Type</th>
<th>Diagram Book No</th>
<th>Colour of Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Locomotives:</strong> - Diagram Book Series 100</td>
<td></td>
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</tr>
<tr>
<td>Diesel Electric</td>
<td>100</td>
<td>Red</td>
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<tr>
<td>Main Line Locos (Previously No MT/25)</td>
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<tr>
<td>Electric</td>
<td>110</td>
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<td>Main Line Locos (Previously No MT/26)</td>
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<tr>
<td>Diesel Shunting Locos</td>
<td>120</td>
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<tr>
<td>(Previously No MT/27)</td>
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<tr>
<td><strong>Coaching &amp; Multiple Unit Stock:</strong> - Diagram Book Series 200</td>
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<td>Loco Hauled Coaches</td>
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<tr>
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<tr>
<td>(Railcar)</td>
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<tr>
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<tr>
<td>(Railcar)</td>
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<tr>
<td>Diesel Electric Multiple Units (HST)</td>
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<tr>
<td><strong>Freight Vehicles:</strong> - Diagram Book Series 300</td>
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<td>Privately Owned Freight Vehicles</td>
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<tr>
<td>Privately Owned International Ferry Vehicle</td>
<td>310</td>
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<tr>
<td>BR Revenue Freight Vehicle</td>
<td>320</td>
<td>Buff</td>
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<tr>
<td>BR International Ferry Vehicles</td>
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<td>Buff</td>
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<tr>
<td>Foreign Administration Freight Vehicles</td>
<td>340</td>
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<tr>
<td>BR Service Department Vehicles</td>
<td>350</td>
<td>Buff</td>
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<tr>
<td><strong>ON Track Plant:</strong> - Diagram Book Series 400</td>
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<tr>
<td>Rail Cranes &amp; Tracklaying Vehicles (Previously No MT/212)</td>
<td>400</td>
<td>Red</td>
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**JULY 1982**

Issued by:--
Director of Mechanical & Electrical Engineering
Railway Technical Centre
DERBY
ENGINE: GARDNER 8 L.3.  
No. OF CYL. & CYCLE: 8 CYL'S. 4 STROKE.  
MAX. CONT. RATED OUTPUT: 204 H.P. AT 1200 R.P.M.  
ENGINE TO GEARBOX: FLUIDRIVE TYPE 23 HYD. COUPLING.  
FINAL DRIVE: S.C.G. Co. TYPE R.E. I.  
PERFORMANCE: MAX. TRACTIVE EFFORT: 15300 L.B. AT 22.6 % ADHESION.  
CONT. TRACTIVE EFFORT: 15300 L.B. AT 3.75 M.P.H.  

MAKE & TYPE:  
IN WORKING ORDER: TC 0 0 10 14  
WEIGHTS: 4 6 4 6  
TOTALS: 28 14 6 0  
OVER PLATFORMS:  
OVER FOOTSTEPS: TC 0 0 10 14  
OVER BUFFERS: 25.07"  
1-9'  
6'  
5'-7""  
2'-6  
1/2'-6"  
12'-2"  
8'-6"  
3'-10  
5'-10"

BRACING: 
TYPE FOR LOCO, AIR.  
FOR TRAIN, VACUUM.  
FRAY FORCE: 70%.  
OF LOCO. WEIGHT IN WORKING ORDER.  
SPEED: MAX. PERMITTED SERVICE SPEED, 28.5 M.P.H.  
CURVE: MIN. RAD. CURVE, WITHOUT GAUGE WIDENING: 2 CHAINS.  
TANK CAPACITY: FUEL, 300 GALLS.  

200 H.P. B.R. O-6-0 DIESEL MECHANICAL SHUNTING LOCOMOTIVE.  
CLASS O3  
O3 - d | V
MAKE & TYPE
GARDNER 8 L.3.

ENGINE
No. OF CYL.S & CYCLE
8 CYL.S. 4 STROKE
MAX CONT RATED OUTPUT
204 HP AT 1200 R.P.M
ENGINE TO GEARBOX
FLUIDRIVE TYPE 23 HYD COUPLING
TRANSMISSION
GEARBOX
WILSON-DREWRY C.A.S. R.7
FINAL DRIVE
S.C.G. Co. TYPE R.F.11
PERFORMANCE
MAX TRACTIVE EFFORT
15300 LB. AT 22 1/2% ADHESION
CONT TRACTIVE EFFORT
15300 LB. AT 3 7/8 M.P.H.

BRAKING
TYPE FOR LOCO
FOR TRAIN

SPEED
MAX PERMITTED SERVICE SPEED
28 5 MPH
MINIMUM RADIUS
HORIZONTAL WITHOUT GAUGE WIDENING
1 1/2 CHAINS
CURVES
VERTICAL CONVEX
3 CHAINS
TANK CAPACITY
FUEL
300 GALLONS

200 H.P. B.R. O-6-O DIESEL MECHANICAL SHUNTING LOCOMOTIVE
CLASS O3

O3 - b X
200 H.P. B.R. 0-6-O DIESEL MECHANICAL SHUNTING LOCOMOTIVE.
CLASS 03
### 350 H.P. B.R O-6-O DIESEL ELECTRIC SHUNTING LOCOMOTIVE

**CLASS 08**

**ENGINE**
- MAKE & TYPE: ENGLISH ELECTRIC 6.6T
- No. OF CYLS & CYCLE: 6 CYLS, 4 STROKE
- MAX CONT RATED OUTPUT: 400 HP AT 680 RPM

**MAIN GENERATOR**
- MAKE & TYPE: ENGLISH ELECTRIC 803
- No.

**TRACTION MOTORS**
- TYPE OF SUSPENSION: NOSE
- TYPE OF GEAR DRIVE: DOUBLE REDUCTION
- MAX TRACTIVE EFFORT: 35000 LB AT 31.9% ADHESION
- CONT. TRACTIVE EFFORT: 1400 LB AT 8.8 M.P.H.
- RAIL HP AT CONT. RATING: 260 HP
- FULL ENGINE OUTPUT: AVAILABLE BETWEEN 0.879 M.P.H.

**WEIGHTS**

<table>
<thead>
<tr>
<th>IN WORKING ORDER</th>
<th>EMPTY</th>
<th>ENGINERING</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>45</td>
<td>11</td>
</tr>
</tbody>
</table>

**BRAKING**
- TYPE: FOR LOCO
- FOR TRAIN
- BRAKE FORCE: 1% OF LOCO WEIGHT
- IN WORKING ORDER: 66.2%

**SPEED**
- MAX PERMITTED SERVICE SPEED: 20 M.P.H.
- HORIZONTAL WITHOUT GAUGE WIDENING: 3 CHAINS
- HORIZONTAL WITH ½ IN. GAUGE WIDENING: 1.8 CHAINS
- VERTICAL CONVEX: 3 CHAINS
- VERTICAL CONCAVE: 5.5 CHAINS

**FUEL**
- TANK CAPACITY: 668 GALLONS
350 H.P. B.R. O-6-O DIESEL ELECTRIC SHUNTING LOCOMOTIVE
CLASS 08

ENGINE
MAKE & TYPE
ENGLISH ELECTRIC 6.K.T.

No. OF CYL. & CYCLE
6 CYLS. 4 STROKE

MAX. CONT. RATED OUTPUT
400 H.P. AT 680 R.P.M.

MADE & TYPE
ENGLISH ELECTRIC 506

No.
1 NO.

TRACTION MOTORS
TYPE OF SUSPENSION
NOSE

TYPE OF GEAR DRIVE
DOUBLE REDUCTION

MAX. TRACTIVE EFFORT
35000 L.B. AT 31.5% ADHESION

PERFORMANCE
CONT. TRACTIVE EFFORT
AT 1020 AMPS. MAIN GENERATOR

RAIL H.P. AT CONT. RATING
11,100 L.B. AT 8.8 M.P.H.

FULL ENGINE OUTPUT
260 H.P.

MINIMUM RADIUS
AT 441 AMPS. MAIN GENERATOR

TANK CAPACITY
AVAILABLE BETWEEN 0 & 79 M.P.H.

350 H.P. B.R. O-6-O DIESEL ELECTRIC SHUNTING LOCOMOTIVE
CLASS 08

APRIL 1974

STRAIGHT AIR & AUTO AIR
AUTO AIR & AIR CONT. VAC.

65.4% 20 M.P.H.

3 CHAINS

1 8 CHAINS

5 5 CHAINS

668 GALLONS
<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
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<tbody>
<tr>
<td><strong>Engine</strong></td>
<td>Make &amp; Type: English Electric 6 K.T.</td>
</tr>
<tr>
<td>No of Cyls. &amp; Cycle</td>
<td>6 Cyls. 4 Stroke</td>
</tr>
<tr>
<td>Max Cont Rated Output</td>
<td>400 H.P. at 680 R.P.M.</td>
</tr>
<tr>
<td><strong>Main Generator</strong></td>
<td>Make &amp; Type: English Electric 801</td>
</tr>
<tr>
<td>No.</td>
<td>TWO</td>
</tr>
<tr>
<td><strong>Traction Motors</strong></td>
<td>Type of Suspension: Nose</td>
</tr>
<tr>
<td></td>
<td>Type of Gear Drive: Double Reduction</td>
</tr>
<tr>
<td></td>
<td>Max Traction Effort: 35000 L.B. at 32 % Adhesion</td>
</tr>
<tr>
<td></td>
<td>Cont. Traction Effort: 11,100 L.B. at 88 M.P.H.</td>
</tr>
<tr>
<td></td>
<td>Rail H.P. at Cont. Rating: 260 H.P.</td>
</tr>
<tr>
<td></td>
<td>Full Engine Output: Available between 0 &amp; 79 M.P.H.</td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td>Type for Loco: Straight Air &amp; Auto Air</td>
</tr>
<tr>
<td></td>
<td>Type for Train: Auto Air</td>
</tr>
<tr>
<td>Braking</td>
<td>Brake Force: 66.4%</td>
</tr>
<tr>
<td>Speed</td>
<td>Max. Permitted Service Speed: 20 M.P.H.</td>
</tr>
<tr>
<td></td>
<td>Horizontal without gauge widening: 3 Chains</td>
</tr>
<tr>
<td></td>
<td>Minimum Radius Curves: Vertical Convex</td>
</tr>
<tr>
<td></td>
<td>Horizontal with % gauge widening: Vertical Concave</td>
</tr>
<tr>
<td></td>
<td>Tank Capacity: Fuel: 668 Gallons</td>
</tr>
</tbody>
</table>

**350 H.P. B.R. 0-6-0 Diesel Electric Shunting Locomotive**

**Class 08**
ENGLISH ELECTRIC 6 X T
6 CYL. 4 STROKE
400 HP AT 600 RPM.
ENGLISH ELECTRIC 805T
ENGLISH ELECTRIC 505T
TWO

ENGINE

MAKE & TYPE
No. OF CYLS & CYCLE
MAX. CONT. RATED OUTPUT

MAIN GENERATOR
MAKE & TYPE
No.

TRACTION MOTORS
TYPE OF SUSPENSION
TYPE OF GEAR DRIVE
MAX. TACTIVE EFFORT

PERFORMANCE
CONT. TACTIVE EFFORT
RAIL HP AT CONT. RATING
FULL ENGINE OUTPUT

ENGLISH ELECTRIC 6 X T
6 CYL. 4 STROKE
400 HP AT 600 RPM.
ENGLISH ELECTRIC 805T
ENGLISH ELECTRIC 505T
TWO

ENGINE

MAKE & TYPE
No. OF CYLS & CYCLE
MAX. CONT. RATED OUTPUT

MAIN GENERATOR
MAKE & TYPE
No.

TRACTION MOTORS
TYPE OF SUSPENSION
TYPE OF GEAR DRIVE
MAX. TACTIVE EFFORT

PERFORMANCE
CONT. TACTIVE EFFORT
RAIL HP AT CONT. RATING
FULL ENGINE OUTPUT

Air: 66-2%.
Vacuum: 15 M.P.H.

Braking: 18 CHAINS.
Speed: 3 CHAINS.

Minimum Radius Curves:
Horizontal Without Gauge Widening:
Horizontal With 3 CHAINS Gauge Widening:
Vertical Convex:
Vertical Concave:
Tank Capacity Fuel:

350 H.P. B.R O-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE.
CLASS 08

www.silvermoorconsulting.co.uk
### 350 H.P. B.R. O-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE

**CLASS 08**

<table>
<thead>
<tr>
<th>MAKE &amp; TYPE</th>
<th>ENGLISH ELECTRIC 0 K.T.</th>
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<tbody>
<tr>
<td><strong>ENGINE</strong></td>
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<td>No of CYLS &amp; CYCLE</td>
<td>6 CYLS, 4 STROKE</td>
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<td>MAX CONT RATED OUTPUT</td>
<td>400 HP AT 680 RPM</td>
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<td>MAIN GENERATOR</td>
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<tr>
<td>MAKE &amp; TYPE</td>
<td>ENGLISH ELECTRIC 80I</td>
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<tr>
<td>MAKE &amp; TYPE</td>
<td>ENGLISH ELECTRIC 506</td>
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<tr>
<td>No</td>
<td>TWO</td>
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<td>TRACTION MOTORS</td>
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<td>TYPE OF SUSPENSION</td>
<td>NOSE</td>
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<tr>
<td>TYPE OF GEAR DRIVE</td>
<td>DOUBLE REDUCTION</td>
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<tr>
<td>MAX TRACTIVE EFFORT</td>
<td>35000 LB AT 31 5/7% ADHESION</td>
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<td>CONT TRACTIVE EFFORT</td>
<td>11,000 LB AT 8 8 M.P.H.</td>
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<td>PERFORMANCE</td>
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<td>RAIL HP AT CONT RATING</td>
<td>260 HP</td>
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<td>FULL ENGINE OUTPUT</td>
<td>AVAILABLE BETWEEN 0 &amp; 7 9 M.P.H.</td>
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<td>TYPE FOR LOCO</td>
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<tr>
<td>FOR TRAIN</td>
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<tr>
<td>BRAKING</td>
<td></td>
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<td>BRAKE FORCE</td>
<td>65 4/7%</td>
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<tr>
<td>% OF LOCO WEIGHT</td>
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<td>IN WORKING ORDER</td>
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<tr>
<td>SPEED</td>
<td>15 M.P.H.</td>
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<td>MAX PERMITTED SERVICE SPEED</td>
<td>HORIZONTAL WITHOUT GAUGE WIDENING</td>
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<td>MINIMUM RADIUS</td>
<td>18 CHAINS</td>
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<td>CURVES</td>
<td>VERTICAL CONCAVE</td>
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<tr>
<td>TANK CAPACITY</td>
<td>668 GALLONS</td>
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<tr>
<td>FUEL</td>
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**JUNE 1978**

[www.silvermoorconsulting.co.uk](http://www.silvermoorconsulting.co.uk)
350 H.P. B.R. 0-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE
CLASS 08

ENGINE
- MAKE & TYPE: ENGLISH ELECTRIC 6 K.T.
- No. OF CYLs & CYCLE: 6 CYLs. 4 STROKE
- MAX. CONT. RATED OUTPUT: 400 H.P. AT 680 R.P.M.
- MAIN GENERATOR
- MAKE & TYPE: ENGLISH ELECTRIC 801.
- TRACTION MOTORS
- MAKE & TYPE: ENGLISH ELECTRIC 506 TWO
- TYPE OF SUSPENSION: NOSE
- TYPE OF GEAR DRIVE: DOUBLE REDUCTION
- MAX. TRACTIVE EFFORT: 35000 LB. AT 32% ADHESION
- CONT. TRACTIVE EFFORT: AT 1020 AMPS. MAIN GENERATOR
- H.100 LB. AT 8 8 MPH
- RAIL H.P. AT CONT. RATING: 250 H.P.
- FULL ENGINE OUTPUT: AVAILABLE BETWEEN 0 & 79 MPH

BRACING
- TYPE FOR LOCO: FOR TRAIN
- BRAKE FORCE: 1% OF LOCO WEIGHT IN WORKING ORDER
- SPEED
- MAX. PERMITTED SERVICE SPEED: 15 M.P.H.
- MINIMUM RADIUS CURVES: HORIZONTAL WITHOUT GAUGE WIDENING
- HORIZONTAL WITH ¾ INS GAUGE WIDENING
- VERTICAL CONVEX
- VERTICAL CONCAVE
- TANK CAPACITY
- FUEL
- STRAIGHT AIR & AUTO AIR
- AUTO AIR
- 66 4% AUTO AIR
- 18 CHAINS 3 CHAINS
- 55 CHAINS 668 GALLONS
### 350 H.P.B.R.0-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE

#### (110V AUXILIARY SUPPLY)

#### CLASS 08

#### 08-0k X

#### DEPARTURE

#### 8'-3½'

#### OVER FOOTSTEPS

#### 8'-5'

#### OVER PLATFORM

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<table>
<thead>
<tr>
<th>Engine</th>
<th>Make &amp; Type</th>
<th>No. of Cyls. &amp; Cycle</th>
<th>English Electric G.K.T.</th>
<th>6 Cyls. 4 Stroke</th>
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<tr>
<td>MAIN GENERATOR</td>
<td>Make &amp; Type</td>
<td>Max. Cont. Rated Output</td>
<td>ENGLISH ELECTRIC 801</td>
<td>400 H.P. AT 680 R.P.M.</td>
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<tr>
<td>TRACTION MOTORS</td>
<td>Make &amp; Type</td>
<td>Brake Force</td>
<td>12 Tons</td>
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<td>PERFORMANCE</td>
<td>Cont. Tractive Effort</td>
<td>Brake Force</td>
<td>250 HP.</td>
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<td>DATA PANEL</td>
<td>Rail H.P. at Cont. Rating</td>
<td>Brake Force</td>
<td>49 Tons</td>
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<td></td>
<td>Full Engine Output</td>
<td>Brake Force</td>
<td>19 Tons</td>
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<td>Weight</td>
<td>Brake Force</td>
<td>15 M.P.H.</td>
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<td></td>
<td>E.T.H. Index</td>
<td>Brake Force</td>
<td>-</td>
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<td>Route Availability</td>
<td>Brake Force</td>
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<td></td>
<td>Max. Speed</td>
<td>Brake Force</td>
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<tr>
<th>Braking</th>
<th>Type for Loco</th>
<th>For Train</th>
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<tr>
<td>BRAKING</td>
<td>Brake Force</td>
<td>2 of Loco Weight</td>
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<td></td>
<td>in Working Order</td>
<td>65.4%</td>
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<thead>
<tr>
<th>Multiple Working</th>
<th>Coupling Symbol</th>
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<tr>
<td>Horizontal Without Gauge Widening</td>
<td>Vertical Convex</td>
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<tr>
<td>Horizontal with ½ Ins. Gauge Widening</td>
<td>Vertical Concave</td>
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<tr>
<th>Minimum Radius</th>
<th>Curves</th>
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<tr>
<td>1.5 Chains</td>
<td>3 Chains</td>
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<tr>
<td>5.5 Chains</td>
<td>5 Chains</td>
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<table>
<thead>
<tr>
<th>Tank Capacity</th>
<th>Fuel</th>
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<tbody>
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<td>668 Gallons</td>
<td>668 Gallons</td>
</tr>
</tbody>
</table>

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**FEB. 1988**
350 H.P.B.R.O-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE

CLASS 08/9

WEIGHTS

IN WORKING ORDER 14 14 16 0 14 6 11

UNLOADING 36 1 15 1 31 16 11

TOTALS 49 0

5'9" 5'9"

11'-6"

39'-3" OVER BUFFERS

9'-3½" OVER FOOTSTEPS

8'-6" OVER PLATFORM

ENGINE

MAKE & TYPE ENGLISH ELECTRIC S.K.T.

NO. OF CYL. & CYCLE 6 CYLS. 4 STROKE

MAX. CONT. RATED OUTPUT 400 H.P. AT 680 R.P.M.

MAIN GENERATOR

MAKE & TYPE ENGLISH ELECTRIC 803

MAX. CONT. RATED OUTPUT 400 H.P. AT 680 R.P.M.

TRACTION MOTORS

MAKE & TYPE ENGLISH ELECTRIC 506

NO. TWO

TYPE OF SUSPENSION NONE.

TYPE OF GEAR DRIVE DOUBLE REDUCTION

MAX. TRACTIVE EFFORT 35,000 LB. AT 31.9% ADHESION AT 1020 AMPS. MAIN GENERATOR

PERFORMANCE

MAX. TRACTIVE EFFORT 11,100 LB. AT 8.8 M.P.H.

RAIL H.P. AT CONT. RATING 260 H.P.

FULL ENGINE OUTPUT AVAILABLE BETWEEN 0 & 7.9 M.P.H

WEIGHT 49 TONNES

MAX. SPEED 15 M.P.H.

DATA PANEL

E.T.H. INDEX

ROUTE AVAILABILITY 5.

TANK CAPACITY 15 M.P.H.

AIR. VACUUM.

MULTIPLE WORKING COUPLING SYMBOL

HORIZONTAL WITHOUT GAUGE WIDENING

MINIMUM RADIUS CURVES VERTICAL CONVEX

VERTICAL CONCAVE

FOR LOCO FOR TRAIN % OF LOCO WEIGHT IN WORKING ORDER

66.2%

3 CHAINS

1.8 CHAINS

3 CHAINS

5.5 CHAINS

593 GALLONS

APRIL 1985
350 h.P.B.R.0-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE

CLASS 08/9

ENGINE
- MAKE & TYPE: ENGLISH ELECTRIC E.K.T.
- NO. OF CYL. & CYCLE: 6 CYL. 4 STROKE
- MAX CONT. RATED OUTPUT: 400 H.P. AT 680 R.P.M.

MAIN GENERATOR
- MAKE & TYPE: ENGLISH ELECTRIC 506

TRACTION MOTORS
- NO.: TWO
- TYPE OF SUSPENSION: NOSE
- TYPE OF GEAR DRIVE: DOUBLE REDUCTION
- MAX TRACTIVE EFFORT: 35,000 LB. AT 31.5% ADHESION

PERFORMANCE
- CONT. TRACTIVE EFFORT: 11,100LB. AT 8.8 M.P.H.
- RAIL H.P. AT CONT. RATING: 260 H.P.
- FULL ENGINE OUTPUT: AVAILABLE BETWEEN 0 & 7.9 M.P.H
- WEIGHT: 49 TONNES
- BRAKE FORCE: 19 TONNES

DATA PANEL
- E.T.H. INDEX: -
- ROUTE AVAILABILITY: 5
- MAX. SPEED: 15 M.P.H.

BRACING
- TYPE FOR LOCO: -
- FOR TRAIN: -
- BRAKE FORCE: -
- % OF LOCO WEIGHT IN WORKING ORDER: 65.4%

MULTIPLE WORKING
- COUPLING SYMBOLE:
- HORIZONTAL WITHOUT GAUGE WIDENING: 3 CHAINS
- HORIZONTAL WITH WINS. GAUGE WIDENING: 1.8 CHAINS
- VERTICAL CONVEX: 3 CHAINS
- VERTICAL CONCAVE: 5.5 CHAINS

TANK CAPACITY
- FUEL: 593 GALLONS

STRAIGHT AIR & AUTO. AIR
- AUTO. AIR & AIR CONT. VAC: 65.4%

APRIL 1985

www.silvermoorconsulting.co.uk
350 H.P.B.R.O-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE

ENGINE
MAKE & TYPE: ENGLISH ELECTRIC 6.K.T.
NO. OF CYLS., & CYCLE: 6 CYLS., 4 STROKE
MAX. CONT. RATED OUTPUT: 400 H.P. AT 680 R.P.M.

MAIN GENERATOR
MAKE & TYPE: ENGLISH ELECTRIC 801

traction motors
MAKE & TYPE: ENGLISH ELECTRIC 506
NO. OF CYLS.: 4
TYPE OF SUSPENSION: NOSE.
TYPE OF GEAR DRIVE: DOUBLE REDUCTION
MAX. TACTIVE EFFORT: 35,000 L.B. AT 32% ADHESION

Performance
CONT. TACTIVE EFFORT: 35,000 L.B. AT 32% ADHESION
RAIL H.P. AT CONT. RATING: 260 H.P.
FULL ENGINE OUTPUT: AVAILABLE BETWEEN 0 & 7.9 M.P.H
WEIGHT: 49 TONNES

Data Panel
BRAKE FORCE: 19 TONNES
E.T.H. INDEX: -
ROUTE AVAILABILITY: 5
MAX. SPEED: 15 M.P.H.

Braking
TYPE: FOR LOCO
FOR TRAIN
BRAKE FORCE: 66.4% OF LOCO WEIGHT
IN WORKING ORDER: STRAIGHT AIR & AUTO AIR.
AUTO AIR.

Multiple Working
COUPLING SYMBOL: -
MINIMUM RADIUS: HORIZONTAL WITHOUT GAUGE WIDENING
CURVES: 3 CHAINS
VERTICAL CONVEX: 1.8 CHAINS
VERTICAL CONCAVE: 3 CHAINS
TANK CAPACITY: 5.5 CHAINS
FUEL: 668 GALLONS

OCT. 1987

www.silvermoorconsulting.co.uk
350 HP B.R. O-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE.
CLASS O9

ENGLISH ELECTRIC 6 K.T.
6 CYLS. 4 STROKE.
400 HP AT 680 R.P.M.

ENGLISH ELECTRIC B.O.
ENG. NO.: ELECTRIC 906
TWO.

NOSE.
DOUBLE REDUCTION.
25,000 LB. AT 22.5% ADHESION
AT 1000 AMPS MAIN GENERATOR.
6700 LB. AT 11.6 MPH.

269 HP.
AVAILABLE BETWEEN 0 & 9.4 MPH.

TYPE
FOR LOCO
SPEED
MAX PERMITTED SERVICE SPEED
HORIZONTAL WITHOUT GAUGE WIDENING 3 CHAINS
HORIZONTAL WITH 3/4 INS. GAUGE WIDENING
VERTICAL CONVEX
VERTICAL CONCAVE
FUEL

STRaight AIR & AUTO AIR
AUTO AIR & AIR CONT VAC
65.4%
27.5 MPH
18 CHAINS
3 CHAINS
55 CHAINS
667 GALLONS.
## SHUNTING LOCOMOTIVE DIAGRAM BOOK

### VEHICLE DIAGRAM BOOK NO. 120

### REVISION LETTER NO. 12

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>ACTION</th>
<th>REASON FOR CHANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Following Diagram</td>
<td>Insert new diagram</td>
<td>For locomotives with</td>
</tr>
<tr>
<td>08-fA</td>
<td>08-0kX</td>
<td>110 V Auxiliary Supply</td>
</tr>
<tr>
<td>Following Diagram</td>
<td>Insert new diagram</td>
<td>For loco. nos. 08462 and 08687 with height</td>
</tr>
<tr>
<td>08-9cX</td>
<td>08-9dA</td>
<td>reduced to work BPGV line</td>
</tr>
</tbody>
</table>

After incorporating the above, endorse the "Revision Record" at the front of the manual accordingly.

When this Revision letter has been actioned, it is to be stored at the back of the publication (capacity permitting) for easy future reference.

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Date: NOVEMBER 1988

Ref: 171-125-2

Issued by:-

D of M & EE, BRB
Railway Technical Centre
Derby

2301/3940g/1