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# British Railways Board

Mechanical & Electrical Engineering Department

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## VEHICLE DIAGRAM BOOK No 120

FOR

# Shunting Diesel Locomotives

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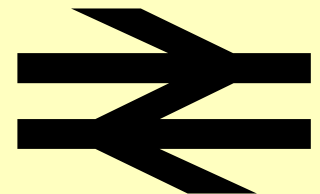
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# **British Railways Board**

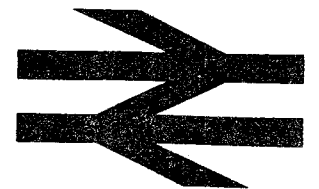
**Mechanical & Electrical Engineering Department**

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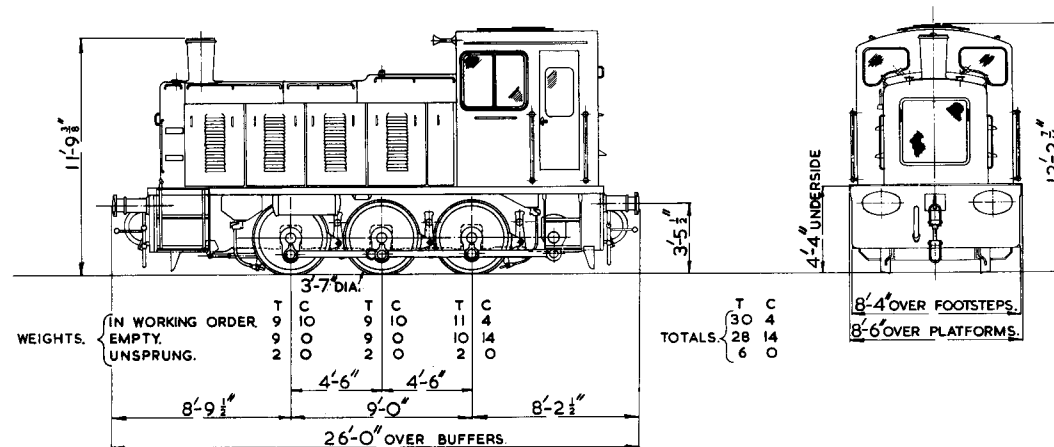
## **VEHICLE DIAGRAM BOOK NO 120**

**FOR**

## **Shunting Diesel Locomotives**



APRIL 1974

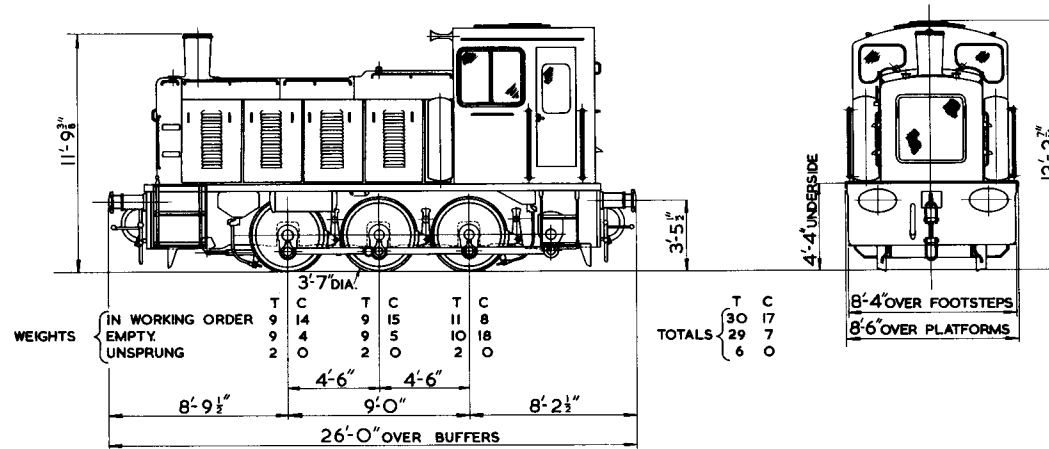


ENGINE.	{ MAKE & TYPE.	GARDNER 8 L.3.	BRAKING.	{ TYPE. { FOR LOCO.	AIR.	
	{ No. OF CYLS. & CYCLE	8 CYLS. 4 STROKE.		{ FOR TRAIN.		VACUUM.
	{ MAX. CONT. RATED OUTPUT.	204 H.P. AT 1200 R.P.M.		{ BRAKE FORCE. { % OF LOCO. WEIGHT		70 %.
TRANSMISSION.	{ ENGINE TO GEARBOX.	FLUIDRIVE TYPE 23 HYD. COUPLING.	{ IN WORKING ORDER.			
	{ GEARBOX.	WILSON-DREWRY C.A.5. R.7.	SPEED.	MAX. PERMITTED SERVICE SPEED.	28.5 M.P.H.	
	{ FINAL DRIVE.	S.C.G. Co. TYPE R.F. 11.	CURVE.	MIN. RAD. CURVE { WITHOUT GAUGE WIDENING:	2 CHAINS.	
PERFORMANCE.	{ MAX. TRACTIVE EFFORT.	15300 LB. AT 22.6 % ADHESION.	{ AT DEAD SLOW SPEED:			
	{ CONT. TRACTIVE EFFORT.	15300 LB. AT 3.75 M.P.H.	TANK CAPACITY.	FUEL.	300 GALLS.	

200 H.P. B.R. O-6-O DIESEL MECHANICAL SHUNTING LOCOMOTIVE.  
CLASS 03

03-a V

APRIL 1974

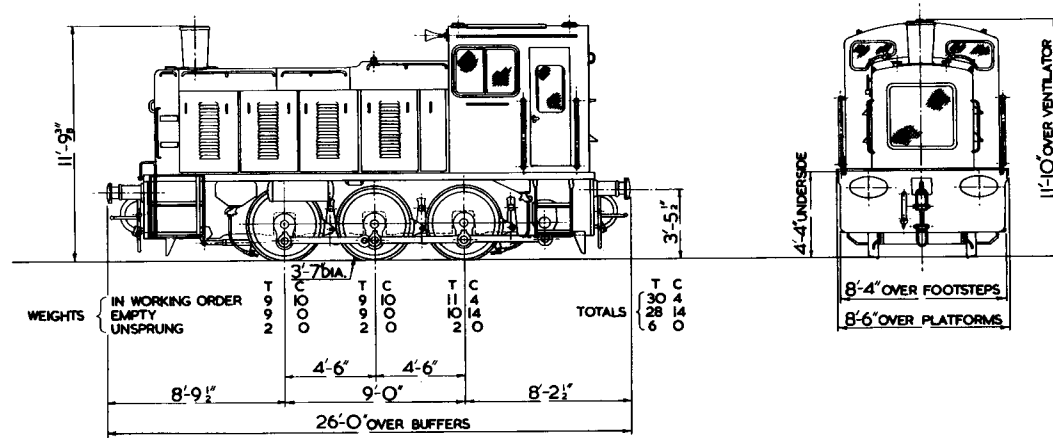


ENGINE	{	MAKE & TYPE	GARDNER 8 L.3.	BRAKING	{	TYPE	{ FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR
		No. OF CYLS. & CYCLE	8 CYLS. 4 STROKE			BRAKE FORCE	{ % OF LOCO. WEIGHT IN WORKING ORDER	AUTO AIR & AIR CONT. VAC.
		MAX. CONT. RATED OUTPUT	204 H.P. AT 1200 R.P.M.					68.5%
TRANSMISSION	{	ENGINE TO GEARBOX	FLUIDRIVE TYPE 23 HYD. COUPLING	SPEED	{	MAX. PERMITTED SERVICE SPEED	28.5 M.P.H.	
		GEARBOX	WILSON-DREWRY C.A.5. R.7.			HORIZONTAL WITHOUT GAUGE WIDENING	2 CHAINS	
		FINAL DRIVE	S.C.G. Co. TYPE R.F. II.				HORIZONTAL WITH 3/4 INS. GAUGE WIDENING	1.1 CHAINS
PERFORMANCE	{	MAX. TRACTIVE EFFORT	15300 LB. AT 22.1% ADHESION	MINIMUM RADIUS CURVES	{	VERTICAL CONVEX	3 CHAINS	
		CONT. TRACTIVE EFFORT	15300 LB. AT 3.75 M.P.H.			VERTICAL CONCAVE	6.5 CHAINS	
				TANK CAPACITY	FUEL		300 GALLONS	

200 H.P. B.R. 0-6-0 DIESEL MECHANICAL SHUNTING LOCOMOTIVE  
CLASS 03

03-b X

APRIL 1974

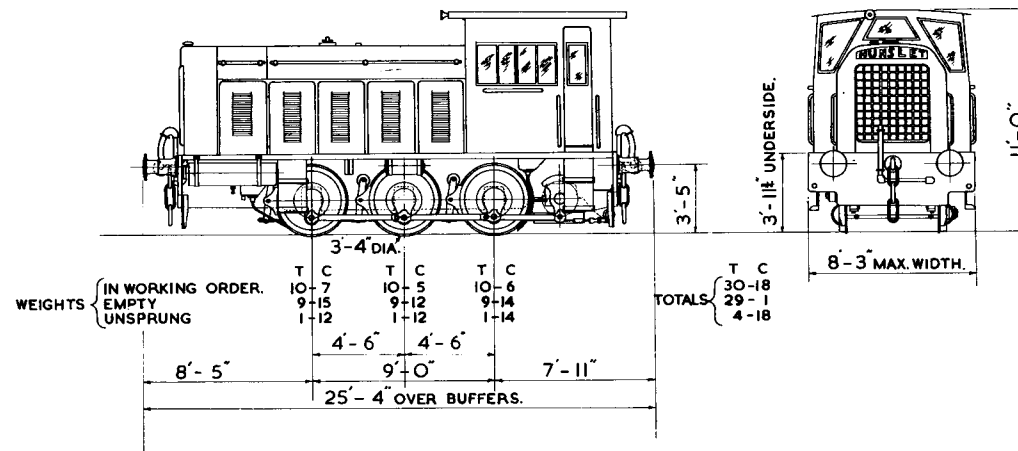


ENGINE.	{	MAKE & TYPE	GARDNER 8 L.3.	BRAKING.	{	TYPE.	{ FOR LOCO.	AIR.
		No. OF CYLS. & CYCLE.	8 CYLS. 4 STROKE.			{ FOR TRAIN.	VACUUM.	
TRANSMISSION.	{	MAX. CONT. RATED OUTPUT.	204 H.P. AT 1200 R.P.M.	SPEED.	}	BRAKE FORCE.	{ % OF LOCO. WEIGHT.	70%.
		ENGINE TO GEARBOX.	FLUIDRIVE TYPE 23 HYD. COUPLING.			{ IN WORKING ORDER.		
		GEARBOX.	WILSON - DREWRY C.A.5.R.7.			MAX. PERMITTED SERVICE SPEED.	28.5 M.P.H.	
PERFORMANCE.	{	FINAL DRIVE.	S.C.G. Co. TYPE R. F. II.	CURVE.	}	MIN. RAD. CURVE.	{ WITHOUT GAUGE WIDENING:	2 CHAINS.
		MAX. TRACTIVE EFFORT.	15300 LB. AT 22.6% ADHESION.			{ AT DEAD SLOW SPEED:		
		CONT. TRACTIVE EFFORT.	15300 LB. AT 3.75 M.P.H.			TANK CAPACITY.	FUEL.	300 GALLS.

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

O3 - c V

APRIL 1974

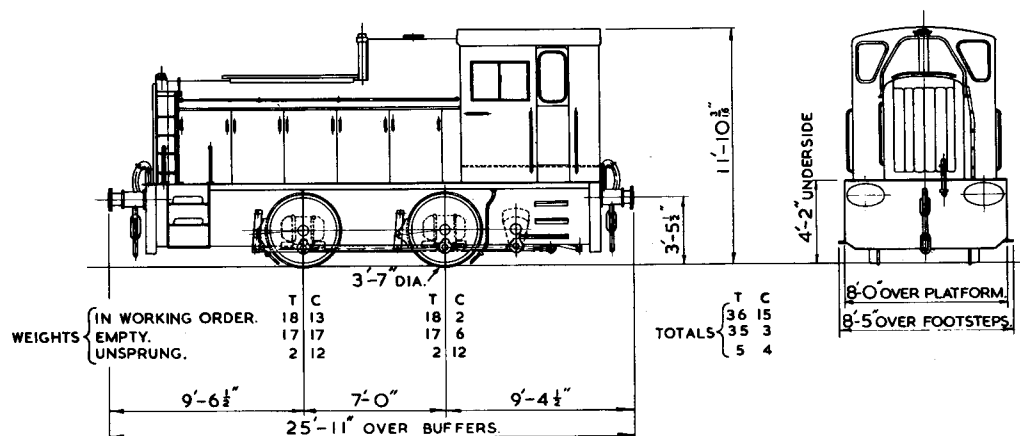


ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	GARDNER 8.L.3. 8 CYLS. 4 STROKE. 204 H.P. AT 1200 R.P.M.	BRAKING.	{ TYPE. { FOR LOCO. FOR TRAIN.	AIR. VACUUM.
TRANSMISSION.	{ MAX. TRACTIVE EFFORT. CONT. TRACTIVE EFFORT.	14,500 LB. AT 21.6% ADHESION. 14,500 LB. AT 4.48 M.P.H.	SPEED. CURVE. TANK CAPACITY.	{ MAX. PERMITTED SERVICE SPEED. MIN. RAD. CURVE { WITHOUT GAUGE WIDENING: AT DEAD SLOW SPEED:	17.8 M.P.H. 1.82 CHAINS. 1.52 CHAINS. 300 GALLS.

**200 H.P. HUNSLET 0-6-0 DIESEL MECHANICAL SHUNTING LOCOMOTIVE.  
CLASS O5**

**O5-a V**

APRIL 1974

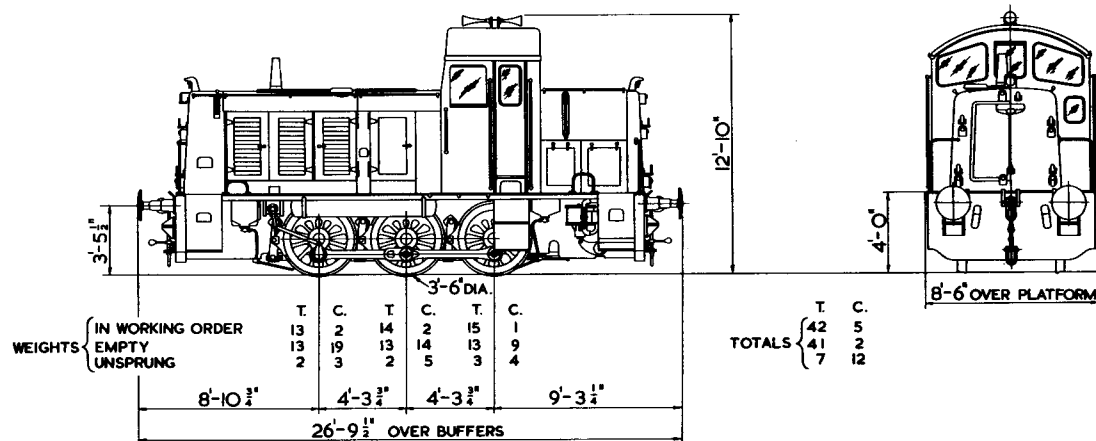


ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	GARDNER 8.L.3. 8 CYLS. 4 STROKE. 204 H.P. AT 1200 R.P.M.	BRAKING.	{ TYPE { FOR LOCO. FOR TRAIN. BRAKE FORCE { % OF LOCO. WEIGHT IN WORKING ORDER.	AIR. VACUUM. 66.4%
TRANSMISSION.	{ ENGINE TO GEARBOX. GEARBOX. FINAL DRIVE.	VULCAN SINCLAIR RIGID TYPE SIZE 23 HYD. CPLG. WILSON CA5 TYPE 5 SPEED EPICYCLIC GEARBOX. WISEMAN TYPE 15RLGB REVERSING F.D. UNIT.	SPEED.	MAX. PERMITTED SERVICE SPEED	22.8 M.P.H.
PERFORMANCE	{ MAX. TRACTIVE EFFORT CONT. TRACTIVE EFFORT RAIL H.P.	19,800 LB. AT 24% ADHESION 19,800 LB. AT 2.25 M.P.H. 122 H.P. AVAILABLE BETWEEN 0&22.8 M.P.H.	CURVE.	MIN. RAD. CURVE { WITHOUT GAUGE WIDENING : AT DEAD SLOW SPEED :	1:365 CHAINS. 1:365 CHAINS.
			TANK CAPACITY.	FUEL	325 GALLS.

**200 H.P. ANDREW BARCLAY O-4-O DIESEL MECHANICAL SHUNTING LOCOMOTIVE.  
CLASS O6**

**O6-a V**

APRIL 1974



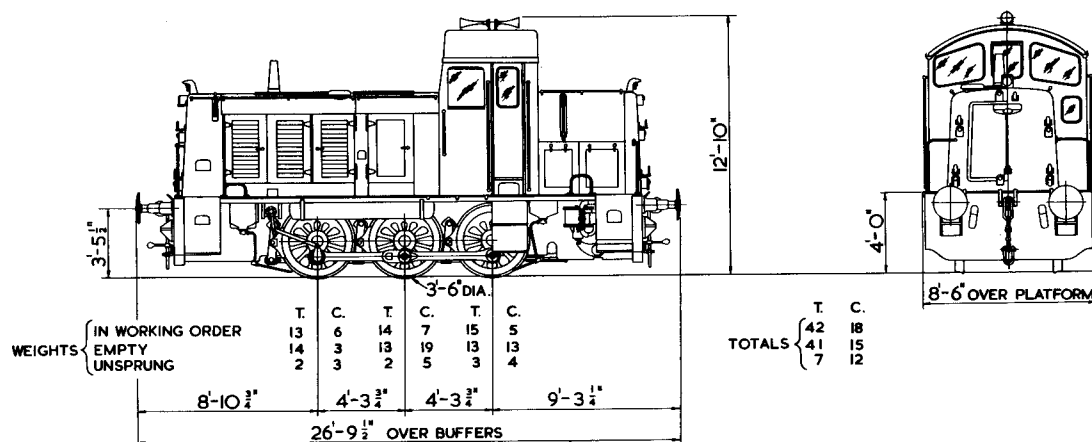
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	PAXMAN 6 RPHL. MK.III 6 CYLS., 4 STROKE 275 H.P. AT 1360 R.P.M.	BRAKING	{ TYPE { FOR LOCO. FOR TRAIN BRAKE FORCE { % OF LOCO. WEIGHT IN WORKING ORDER	STRAIGHT AIR VACUUM 84
MAIN GENERATOR	{ MAKE & TYPE	A.E.I. RTB 6652	SPEED	MAX. PERMITTED SERVICE SPEED	20 M.P.H.
TRACTION MOTORS	{ MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE	A.E.I. RTA 6652 ONE AXLE DOUBLE REDUCTION	CURVE	MIN. RAD. CURVE WITHOUT GAUGE WIDENING	2 CHAINS
PERFORMANCE	{ MAX. TRACTIVE EFFORT CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	28,240 LBS. AT 30% ADHESION AT 390 AMPS. MAIN GENERATOR 15,950 LBS. AT 4.38 M.P.H. AT 360 AMPS. MAIN GENERATOR 190 H.P. AVAILABLE BETWEEN 3.9 & 13.5 M.P.H.	TANK CAPACITY	ENGINE FUEL	300 GALLS.

**275 H.P. RUSTON & HORNSBY O-6-O DIESEL ELECTRIC SHUNTING LOCOMOTIVE  
CLASS 7**

07-a V



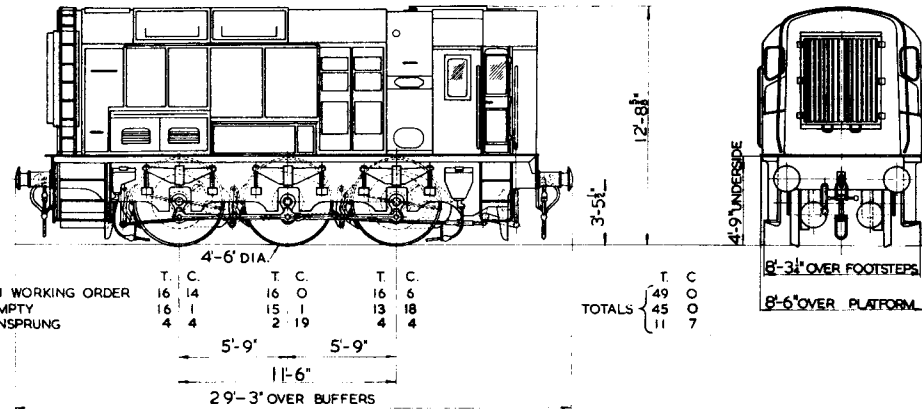
APRIL 1974



ENGINE	MAKE & TYPE	PAXMAN 6 RPHL. MK.III	BRAKING.	TYPE { FOR LOCO. FOR TRAIN.	STRAIGHT AIR & AUTO. AIR. AUTO. AIR & AIR CONT. VAC.
	No. OF CYLS. & CYCLE	6 CYLS., 4 STROKE		BRAKE FORCE { % OF LOCO. WEIGHT. IN WORKING ORDER.	82.9%
MAIN GENERATOR	MAX. CONT. RATED OUTPUT	275 H.P. AT 1360 R.P.M.	SPEED	MAX. PERMITTED SERVICE SPEED.	20 M.P.H.
	MAKE & TYPE	A.E.I. RTB 6652	MINIMUM RADIUS	HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS. GAUGE WIDENING. VERTICAL CONVEX. VERTICAL CONCAVE.	2 CHAINS.
TRACTION MOTORS	MAKE & TYPE	A.E.I. RTA 6652	CURVES.		1 CHAIN.
	No.	ONE	TANK CAPACITY		1 CHAIN.
	TYPE OF SUSPENSION	AXLE		ENGINE FUEL.	300 GALLS.
	TYPE OF GEAR DRIVE	DOUBLE REDUCTION			
	MAX. TRACTIVE EFFORT	28,240 LBS. AT 29.4% ADHESION. AT 390 AMPS. MAIN GENERATOR.			
PERFORMANCE	CONT. TRACTIVE EFFORT	15,950 LBS. AT 4.38 M.P.H. AT 360 AMPS. MAIN GENERATOR.			
	RAIL H.P. AT CONT. RATING	190 H.P.			
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 3.9 & 13.5 M.P.H.			

**275 H.P. RUSTON & HORNSBY O-6-O DIESEL ELECTRIC SHUNTING LOCOMOTIVE  
CLASS O7.**

**O7- b X**

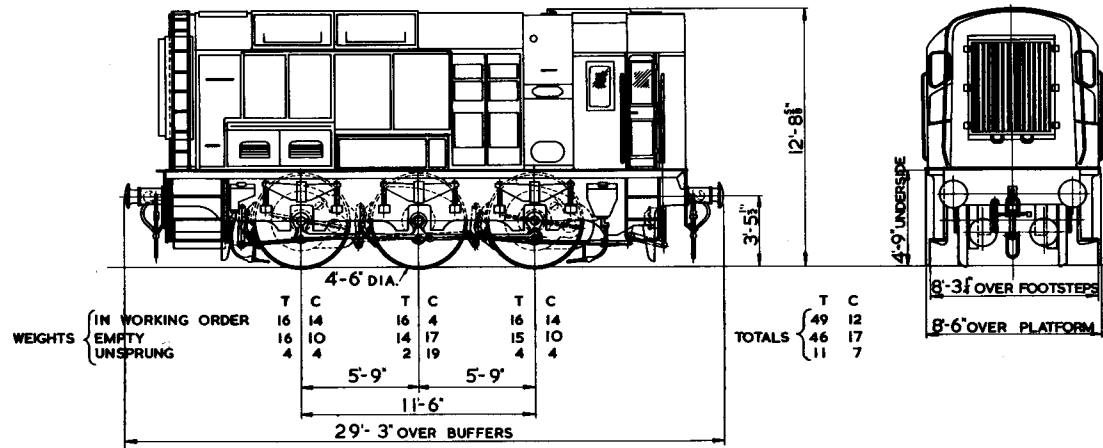


ENGINE.	{ MAKE & TYPE.	ENGLISH ELECTRIC 6.K.T.	BRAKING.	{ TYPE { FOR LOCO.	AIR.
	{ No. OF CYLS. & CYCLE.	6 CYLS. 4 STROKE.		{ FOR TRAIN.	VACUUM.
MAIN GENERATOR.	{ MAX. CONT. RATED OUTPUT.	400 H.P. AT 680 R.P.M.		{ BRAKE FORCE { % OF LOCO. WEIGHT	66.2%
	{ MAKE & TYPE.	ENGLISH ELECTRIC 801.		{ IN WORKING ORDER.	
TRACTION MOTORS.	{ MAKE & TYPE.	ENGLISH ELECTRIC 506.	SPEED.	{ MAX. PERMITTED SERVICE SPEED.	20 M.P.H.
	{ No.	TWO.		{ HORIZONTAL WITHOUT GAUGE WIDENING	3 CHAINS
	{ TYPE OF SUSPENSION.	NOSE.	MINIMUM RADIUS	{ HORIZONTAL WITH 3/4 INS. GAUGE WIDENING	1.8 CHAINS
	{ TYPE OF GEAR DRIVE	DOUBLE REDUCTION.	CURVES	{ VERTICAL CONVEX	3 CHAINS
	{ MAX. TRACTIVE EFFORT.	35000 LB. AT 31.9% ADHESION		{ VERTICAL CONCAVE	5.5 CHAINS
PERFORMANCE.	{ CONT. TRACTIVE EFFORT.	AT 1020 AMPS. MAIN GENERATOR.	TANK CAPACITY	FUEL	668 GALLONS
	{ RAIL H.P. AT CONT. RATING.	11,100 LB. AT 8.8 M.P.H.			
	{ FULL ENGINE OUTPUT.	AT 44 AMPS MAIN GENERATOR.			
		260 H.P.			
		AVAILABLE BETWEEN 0 & 7.9 M.P.H.			

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

08-a V

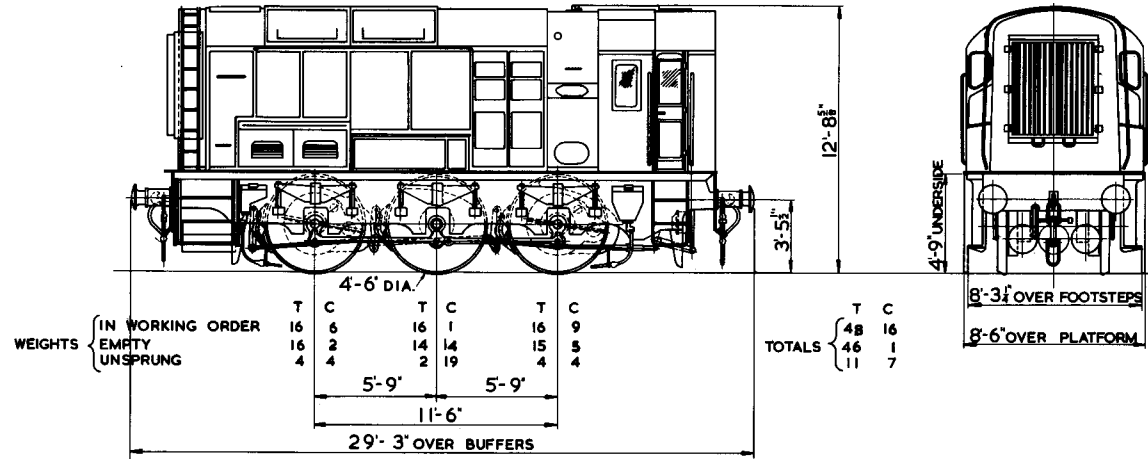
APRIL 1974



ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 6.K.T.	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO AIR
	No. OF CYLS. & CYCLE	6 CYLS. 4 STROKE		FOR TRAIN		AUTO AIR & AIR CONT. VAC.
MAIN GENERATOR	MAKE & TYPE	ENGLISH ELECTRIC 80I		BRAKE FORCE	% OF LOCO. WEIGHT	65.4%
	MAKE & TYPE	ENGLISH ELECTRIC 506	SPEED	IN WORKING ORDER		
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC 506		MAX. PERMITTED SERVICE SPEED		20 M.P.H.
	No.	TWO	MINIMUM RADIUS	HORIZONTAL WITHOUT GAUGE WIDENING		3 CHAINS
	TYPE OF SUSPENSION	NOSE	CURVES	HORIZONTAL WITH 3/4 INS. GAUGE WIDENING		1.8 CHAINS
	TYPE OF GEAR DRIVE	DOUBLE REDUCTION		VERTICAL CONVEX		3 CHAINS
	MAX. TRACTIVE EFFORT	35000 LB. AT 31.5% ADHESION	TANK CAPACITY	VERTICAL CONCAVE		5.5 CHAINS
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 1020 AMPS. MAIN GENERATOR	FUEL			668 GALLONS
	RAIL H.P. AT CONT. RATING	11,100 LB. AT 8.8 M.P.H.				
	FULL ENGINE OUTPUT	AT 441 AMPS. MAIN GENERATOR				
		260 H.P.				
		AVAILABLE BETWEEN 0 & 7.9 M.P.H.				

**350 H.P. B.R. O-6-O DIESEL ELECTRIC SHUNTING LOCOMOTIVE  
CLASS O8**

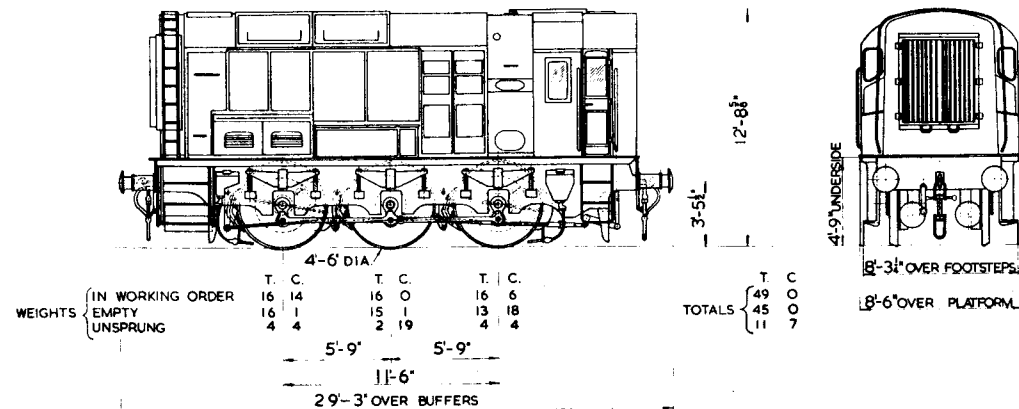
**O8- b X**



ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 6.K.T.	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO AIR				
		No. OF CYLS. & CYCLE			6 CYLS. 4 STROKE	FOR TRAIN	AUTO AIR			
MAIN GENERATOR	MAKE & TYPE	ENGLISH ELECTRIC 80I	SPEED	BRAKE FORCE	% OF LOCO. WEIGHT IN WORKING ORDER	66.4%				
		MAX. CONT. RATED OUTPUT				400 H.P. AT 680 R.P.M.				
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC 506	MINIMUM RADIUS CURVES	VERTICAL CONVEX	MAX. PERMITTED SERVICE SPEED	20 M.P.H.				
		No.				TWO	VERTICAL CONCAVE	HORIZONTAL WITHOUT GAUGE WIDENING	3 CHAINS	
		TYPE OF SUSPENSION				NOSE			HORIZONTAL WITH 3/4 INS. GAUGE WIDENING	1.8 CHAINS
		TYPE OF GEAR DRIVE				DOUBLE REDUCTION				3 CHAINS
MAX. TRACTIVE EFFORT	35000 LB. AT 32 % ADHESION	5.5 CHAINS								
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 1020 AMPS. MAIN GENERATOR	TANK CAPACITY	FUEL	668 GALLONS					
		AT 441 AMPS. MAIN GENERATOR								
		RAIL H.P. AT CONT. RATING				260 H.P.				
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 0 & 7.9 M.P.H.								

**350 H.P. B.R. O-6-O DIESEL ELECTRIC SHUNTING LOCOMOTIVE  
CLASS O8**

**O8-c A**



WEIGHTS	IN WORKING ORDER EMPTY UNSPRUNG	4-6 DIA		T. C.		T. C.	
		T.	C.	T.	C.	T.	C.
		16	14	16	0	16	6
		4	4	2	19	4	4

5'-9"      5'-9"  
11'-6"  
29'-3" OVER BUFFERS

TOTALS	T.	C.
	49	00
11	07	

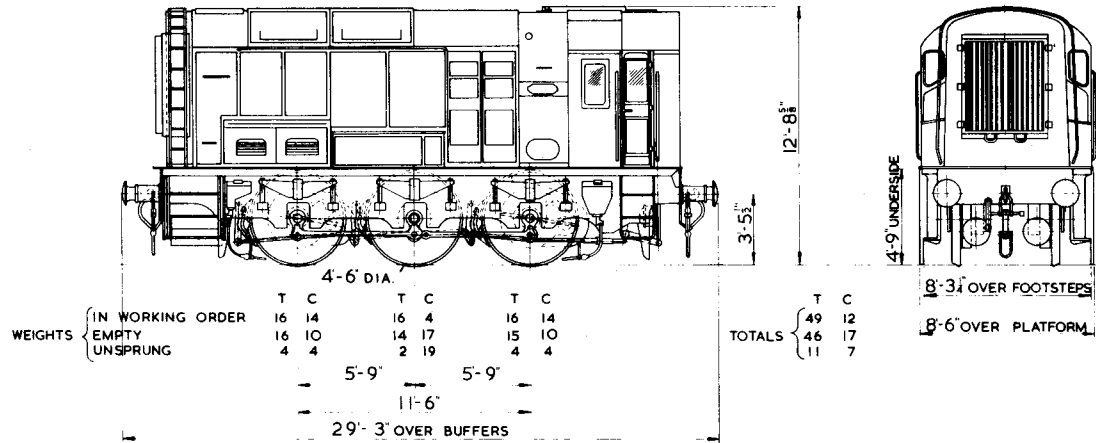
ENGINE.	MAKE & TYPE.	ENGLISH ELECTRIC 6.K.T.
	No. OF CYLS. & CYCLE.	6 CYLS. 4 STROKE.
MAIN GENERATOR.	MAKE & TYPE.	ENGLISH ELECTRIC 801.
	MAKE & TYPE.	ENGLISH ELECTRIC 506.
TRACTION MOTORS.	No.	TWO.
	TYPE OF SUSPENSION.	NOSE
	TYPE OF GEAR DRIVE.	DOUBLE REDUCTION.
	MAX. TRACTIVE EFFORT.	35000 LB. AT 31.9% ADHESION
PERFORMANCE.	CONT. TRACTIVE EFFORT.	AT 1020 AMPS. MAIN GENERATOR. 11,100 LB. AT 8.8 M.P.H. AT 441 AMPS. MAIN GENERATOR.
	RAIL H.P. AT CONT. RATING.	260 H.P.
	FULL ENGINE OUTPUT.	AVAILABLE BETWEEN 0 & 7.9 M.P.H.

BRAKING.	TYPE	FOR LOCO. FOR TRAIN
	BRAKE FORCE	% OF LOCO. WEIGHT IN WORKING ORDER.
SPEED.		MAX. PERMITTED SERVICE SPEED.
MINIMUM RADIUS CURVES		HORIZONTAL WITHOUT GAUGE WIDENING
		HORIZONTAL WITH 3/8 INS. GAUGE WIDENING
		VERTICAL CONVEX VERTICAL CONCAVE
TANK CAPACITY	FUEL	

AIR.	
VACUUM.	66.2%
	15 M.P.H.
	3 CHAINS.
	1.8 CHAINS
	3 CHAINS
	5.5 CHAINS
	668 GALLONS

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

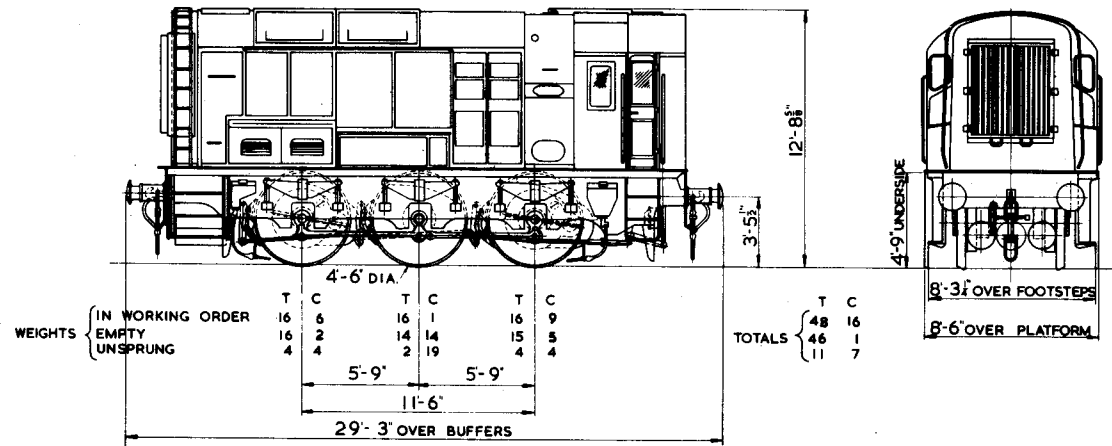
08-dV



ENGINE	{ MAKE & TYPE	ENGLISH ELECTRIC 6.K.T.	BRAKING	{ TYPE { FOR LOCO	STRAIGHT AIR & AUTO AIR
	{ No. OF CYLS. & CYCLE	6 CYLS. 4 STROKE		{ FOR TRAIN	AUTO AIR & AIR CONT. VAC.
MAIN GENERATOR	{ MAX. CONT. RATED OUTPUT	400 H.P. AT 680 R.P.M.		{ BRAKE FORCE { % OF LOCO. WEIGHT	65.4%
	{ MAKE & TYPE	ENGLISH ELECTRIC 801		{ IN WORKING ORDER	
TRACTION MOTORS	{ MAKE & TYPE	ENGLISH ELECTRIC 506	SPEED	{ MAX. PERMITTED SERVICE SPEED	15 M.P.H.
	{ No.	TWO		{ HORIZONTAL WITHOUT GAUGE WIDENING	3 CHAINS
	{ TYPE OF SUSPENSION	NOSE	MINIMUM RADIUS	{ HORIZONTAL WITH 3/4 INS GAUGE WIDENING	1.8 CHAINS
	{ TYPE OF GEAR DRIVE	DOUBLE REDUCTION	CURVES	{ VERTICAL CONVEX	3 CHAINS
	{ MAX. TRACTIVE EFFORT	35000 LB. AT 31.5% ADHESION		{ VERTICAL CONCAVE	5.5 CHAINS
	{ AT 1020 AMPS. MAIN GENERATOR		TANK CAPACITY	{ FUEL	668 GALLONS
PERFORMANCE	{ CONT. TRACTIVE EFFORT	11,100 LB. AT 8.8 M.P.H.			
	{ AT 441 AMPS. MAIN GENERATOR				
	{ RAIL H.P. AT CONT. RATING	260 H.P.			
	{ FULL ENGINE OUTPUT	AVAILABLE BETWEEN 0 & 7.9 M.P.H.			

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

08-e X



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.	BRAKING	{ TYPE { FOR LOCO	STRAIGHT AIR & AUTO AIR
MAIN GENERATOR	{ MAKE & TYPE	ENGLISH ELECTRIC 801		{ FOR TRAIN	AUTO AIR
	{ MAKE & TYPE	ENGLISH ELECTRIC 506		{ BRAKE FORCE { % OF LOCO. WEIGHT	66.4%
	{ No.	TWO		{ IN WORKING ORDER	
TRACTION MOTORS	{ TYPE OF SUSPENSION	NOSE	SPEED	{ MAX. PERMITTED SERVICE SPEED	15 M.P.H.
	{ TYPE OF GEAR DRIVE	DOUBLE REDUCTION		{ HORIZONTAL WITHOUT GAUGE WIDENING	3 CHAINS
	{ MAX. TRACTIVE EFFORT	35000 LB. AT 32 % ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITH 3/4 INS. GAUGE WIDENING	1.8 CHAINS
	{ CONT. TRACTIVE EFFORT	AT 1020 AMPS. MAIN GENERATOR	CURVES	{ VERTICAL CONVEX	3 CHAINS
	{ RAIL H.P. AT CONT. RATING	11,100 LB. AT 8.8 M.P.H.		{ VERTICAL CONCAVE	5.5 CHAINS
PERFORMANCE	{ FULL ENGINE OUTPUT	AVAILABLE BETWEEN 0 & 7.9 M.P.H.	TANK CAPACITY	{ FUEL	668 GALLONS

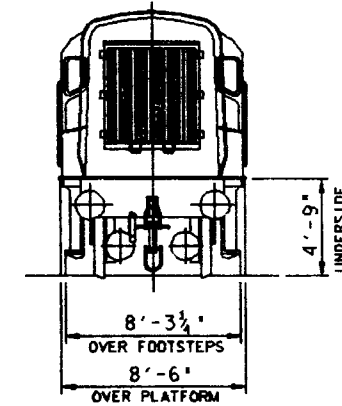
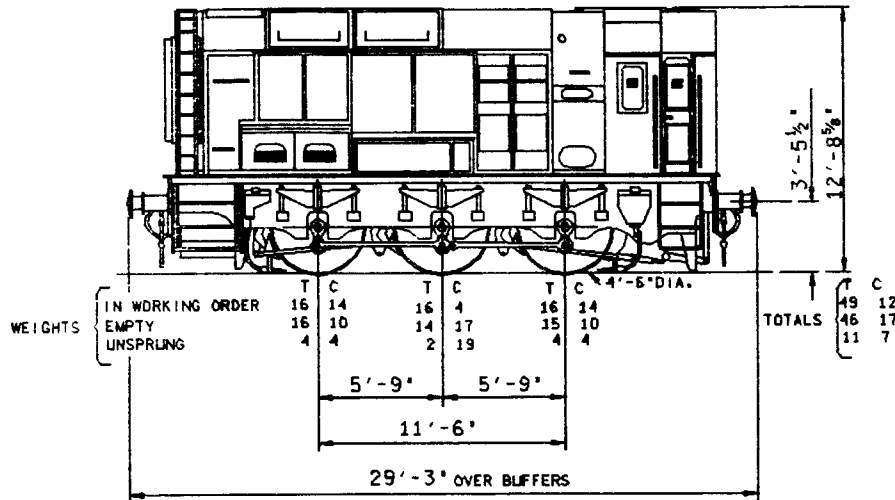
350 H.P. B.R. O-6-O DIESEL ELECTRIC SHUNTING LOCOMOTIVE  
CLASS O8

O8-f A

# 350 H.P.B.R.0-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE (110V AUXILIARY SUPPLY)

CLASS 08

08-0k	X
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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
		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	11,100 LB. AT 8.8 M.P.H.
			AT 441 AMPS. MAIN GENERATOR
		RAIL H.P. AT CONT. RATING	260 H.P.
		FULL ENGINE OUTPUT	AVAILABLE BETWEEN 0 & 7.9 M.P.H.
DATA PANEL		WEIGHT	49 TONNES
		BRAKE FORCE	19 TONNES
		E.T.H. INDEX	-
		ROUTE AVAILABILITY	5.
		MAX. SPEED	15 M.P.H.

BRAKING		TYPE	FOR LOCO		STRAIGHT AIR & AUTO AIR.
			FOR TRAIN		AUTO AIR & AIR CONT. VAC.
		BRAKE FORCE	{ 1/2 OF LOCO WEIGHT IN WORKING ORDER		65.4%
MULTIPLE WORKING		COUPLING SYMBOL	-		
MINIMUM RADIUS		HORIZONTAL WITHOUT GAUGE WIDENING	3 CHAINS		
CURVES		HORIZONTAL WITH 1/4 INS. GAUGE WIDENING	1.8 CHAINS		
		VERTICAL CONVEX	3 CHAINS		
		VERTICAL CONCAVE	5.5 CHAINS		
TANK CAPACITY		FUEL	668 GALLONS		

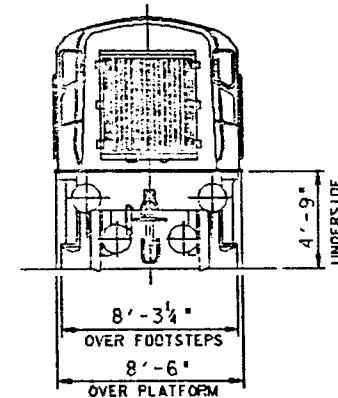
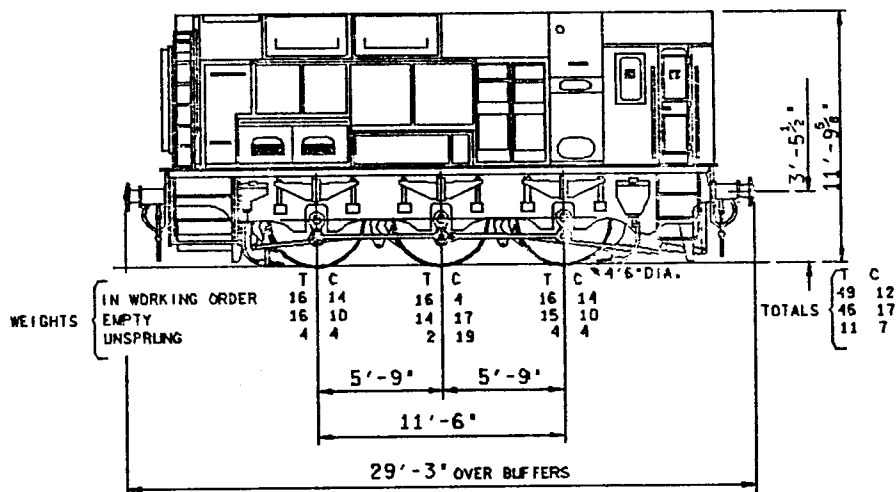
FEB. 1988



# 350 H.P.B.R.0-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE

CLASS 08/9

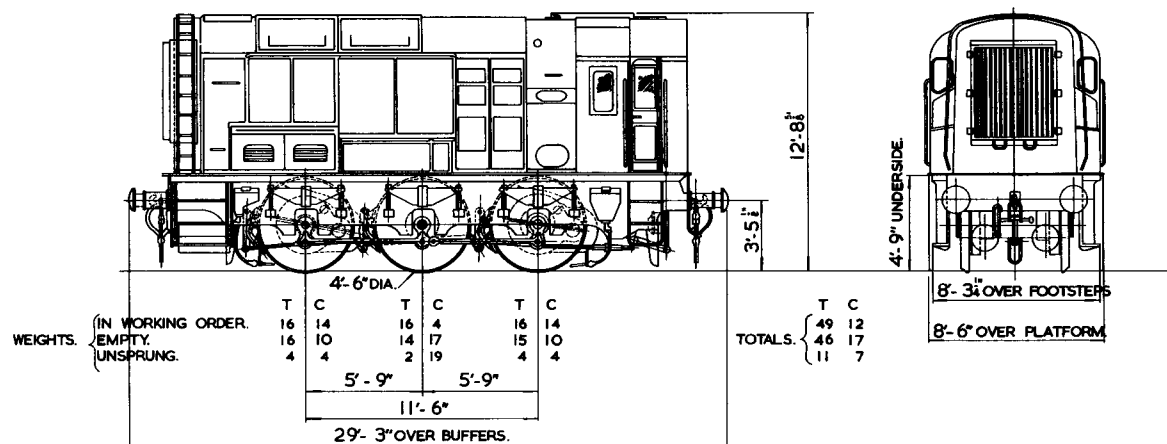
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ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 6.K.T.	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO AIR.
	NO. OF CYLS. & CYCLE	6 CYLS.4 STROKE		FOR TRAIN		AUTO AIR.
MAIN GENERATOR	MAX.CONT.RATED OUTPUT	400 H.P.AT 680 R.P.M.		BRAKE FORCE	% OF LOCO WEIGHT	66.4%
	MAKE & TYPE	ENGLISH ELECTRIC 801	MULTIPLE WORKING	COUPLING SYMBOL	IN WORKING ORDER	-
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC 506		HORIZONTAL WITHOUT GAUGE WIDENING		3 CHAINS
	No	TWO	MINIMUM RADIUS	HORIZONTAL WITH 3/4INS.GAUGE WIDENING		1.8 CHAINS
	TYPE OF SUSPENSION	NOSE.	CURVES	VERTICAL CONVEX		3 CHAINS
	TYPE OF GEAR DRIVE	DOUBLE REDUCTION	TANK CAPACITY	VERTICAL CONCAVE		5.5 CHAINS
	MAX TRACTIVE EFFORT	35,000LB.AT 32% ADHESION		FUEL		668 GALLONS
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				
DATA PANEL	WEIGHT	49 TONNES				
	BRAKE FORCE	19 TONNES				
	E.T.H. INDEX	-				
	ROUTE AVAILABILITY	5.				
	MAX.SPEED	15 M.P.H.				

OCT.1987

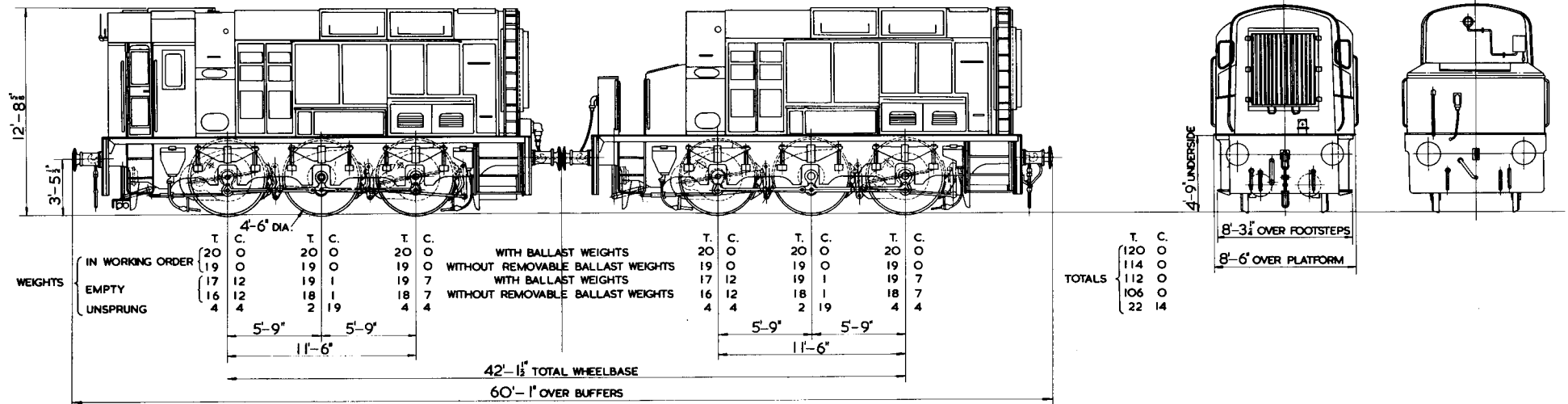
APRIL 1974



ENGINE.	{ MAKE & TYPE.	ENGLISH ELECTRIC 6.K.T.	BRAKING.	{ TYPE. { FOR LOCO.	STRAIGHT AIR & AUTO. AIR.
	{ No. OF CYLS. & CYCLE.	6 CYLS. 4 STROKE.		{ FOR TRAIN.	AUTO. AIR & AIR CONT. VAC.
MAIN GENERATOR.	{ MAX. CONT. RATED OUTPUT.	400 H.P. AT 680 R.P.M.		{ BRAKE FORCE. { % OF LOCO. WEIGHT.	65.4%
	{ MAKE & TYPE.	ENGLISH ELECTRIC 801.		{ IN WORKING ORDER.	
TRACTION MOTORS.	{ MAKE & TYPE.	ENGLISH ELECTRIC 506.	SPEED.	MAX. PERMITTED SERVICE SPEED.	27.5 M.P.H.
	{ No.	TWO.		{ HORIZONTAL WITHOUT GAUGE WIDENING.	3 CHAINS.
	{ TYPE OF SUSPENSION.	NOSE.	MINIMUM RADIUS.	{ HORIZONTAL WITH 3/4 INS. GAUGE WIDENING.	1.8 CHAINS.
	{ TYPE OF GEAR DRIVE.	DOUBLE REDUCTION.	CURVES.	{ VERTICAL CONVEX.	3 CHAINS.
	{ MAX. TRACTIVE EFFORT.	25,000 LB. AT 22.5% ADHESION.		{ VERTICAL CONCAVE.	5.5 CHAINS.
	{ CONT. TRACTIVE EFFORT.	8,700 LB. AT 11.6 M.P.H.	TANK CAPACITY.	FUEL.	668 GALLONS.
PERFORMANCE.	{ RAIL H.P. AT CONT. RATING.	269 H.P.			
	{ FULL ENGINE OUTPUT.	AVAILABLE BETWEEN 0 & 9.4 M.P.H.			

350 H.P. B.R. O - 6 - O DIESEL ELECTRIC SHUNTING LOCOMOTIVE.  
CLASS O9

O9-a X



ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	TWO-ENGLISH ELECTRIC 6.K.T. 6 CYLS. 4 STROKE. 400 H.P. AT 680 R.P.M. EACH.	BRAKING.	{ TYPE { FOR LOCO. FOR TRAIN. BRAKE FORCE. { % OF LOCO. WEIGHT. IN WORKING ORDER.	AIR. VACUUM.
MAIN GENERATOR.	{ MAKE & TYPE.	TWO-ENGLISH ELECTRIC 801.	SPEED.	{ MAX. PERMITTED SERVICE SPEED.	20 M.P.H.
TRACTION MOTORS	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	ENGLISH ELECTRIC 506. FOUR. NOSE. DOUBLE REDUCTION. 70000 LB. AT 26% ADHESION.	MINIMUM RADIUS CURVES.	{ HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/8" IN. GAUGE WIDENING. VERTICAL CONVEX. VERTICAL CONCAVE.	3 CHAINS. 1.79 CHAINS. 2.5 CHAINS. 9 CHAINS.
PERFORMANCE (WITH MOTORS IN SERIES)	{ CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	AT 500 AMPS. EACH MAIN GENERATOR. 32,000 LB. AT 3.75 M.P.H. AT 280 AMPS. EACH MAIN GENERATOR. (IN SERIES, MOTORS ARE LIMITING) 320 H.P. AVAILABLE ON NOTCH 4 AT 485 AMPS. AT 2.2 M.P.H.	TANK CAPACITY.	ENGINE FUEL.	1336 GALLS.

**700 H.P. B.R. 0-6-0 + 0-6-0 DIESEL ELECTRIC SHUNTING LOCOMOTIVE.  
CLASS 13**

