FD50E-5

								FD50E-5
Characteristics	1	Model	Manufacturer's designation					
	2	Capacity	Capacity at 600mm (24in.) Load Center				kg (lbs)	5000 (11,000)
	3	Power Type	Diesel, Gasoline, LPG					Diesel
	4	Tire Type	Solid, Pneumatic					Pneumatic
	5	Operator Type	Driver Standing, Sitting					Sitting
	6	Wheels (*=driven)	Number front/rear					4*/2
Dimensions	7	Lift	h_3	Max. Fork Height			mm (in.)	3000 (118)
	8		h_2	Free Lift			mm (in.)	210 (8.3)
	9	Forks	s.e.l.	Thickness x Width x Length			mm (in.)	55x150x1220 (2.2x5.9x48.0)
	10	Tilting Angle	α/β	Forward/Backward			°	6/12
	11	Overall Dimensions	H	Height, Overhead Guard			mm (in.)	2420 (95.3)
	12		L_2	Length to face of forks			mm (in.)	3430 (135.0)
	13		B	Width			mm (in.)	1940 (76.4)
	14		h_1	Height, Mast lowered			mm (in.)	2470 (97.2)
	15		h_4	Height, Mast extended			mm (in.)	4350 (171.3)
	16	Turning Radius	Wa	Outside			mm (in.)	3250 (128.0)
	17	Load Distance	X	From Center of front axle			mm (in.)	530 (20.9)
	18	Right Angle Stacking Aisle	Plus Load Length				mm (in.)	3780 (148.8)
Performance	19	Speeds	Travel	Forward	Loaded	1st/2nd	km/h (mph)	10/25 (6.2/15.5)
	20				Unloaded	1st/2nd	km/h (mph)	10/27 (6.2/16.8)
	21			Reverse	Loaded	1st/2nd	km/h (mph)	10/25 (6.2/15.5)
	22				Unloaded	1st/2nd	km/h (mph)	10/27 (6.2/16.8)
	23		Lifting Loaded/Unloaded				mm/s (fpm)	350/360 (69/71)
	24		Lowening Loaded/Unloaded				mm/s (fpm)	400/400 (79/79)
	25	Max. Drawbar Pull					kg (lbs)	6000 (13,230)
	26	Gradeability	Loaded/Unloaded				%	53/26
Weights	27	Service Weight					kg (lbs)	6700 (14,770)
	28	Axle Loading	Loaded front/rear				kg (lbs)	10620/1080 (23,410/2,380)
	29		Unloaded front/rear				kg (lbs)	3170 3530 (6,990 7,780)
Chassis & Wheels	30	Tire Size	Front					7.50-15-12PR (I)
	31		Rear					7.50-15-12PR (I)
	32	Wheelbase	y				mm (in.)	2300 (90.6)
	33	Tread	front/rear				mm (in.)	1450/1460 (57.1/57.5)
	34	Ground Clearance	m_1	Lowest point			mm (in.)	190 (7.5)
	35		m_2	Center of frame			mm (in.)	300 (11.8)
	36	Brakes	Service					Hydraulic, Powered
	37		Parking					Mechanical
	38	Steering	Type					Power Steering
Drive	39	Battery	Voltage/Capacity 20-hour rating				V Ah	24/60
	40	Internal Combustion Engine	Make/Model					KOMATSU 6D95L
	41		Rated Horsepower/RPM				HP/rpm	82/2150
	42		Max. Torque/RPM				kgm (lb.ft)/rpm	28 (203)/1500
	43		Number of cylinders/Displacement				cc (cu.in.)	6/4890 (298)
	44		Cylinder Bore x Stroke				mm (in.)	95x115 (3.7x4.5)
	45		Fuel Tank Capacity				ltr (U.S.gal)	120 (32)
	46		Air Cleaner					Cyclone
	47	Clutch	Type					Torque Converter
	48	Transmission	Type					TORQFLOW
	49	Hydraulic	Max. Pressure				kg cm² (psi)	180 (2,550)
	50		Tank Capacity				ltr (U.S.gal)	65 (17)

ANSI AND INSURANCE CLASSIFICATION

Overhead guard on standard truck meets all applicable mondatory requirements of Part II-ANSI-B 56.1 1969-1975 Safety Standard for Powered Industrial Trucks. Underwriters Laboratories requirements as to fire hazard only for D classification available.

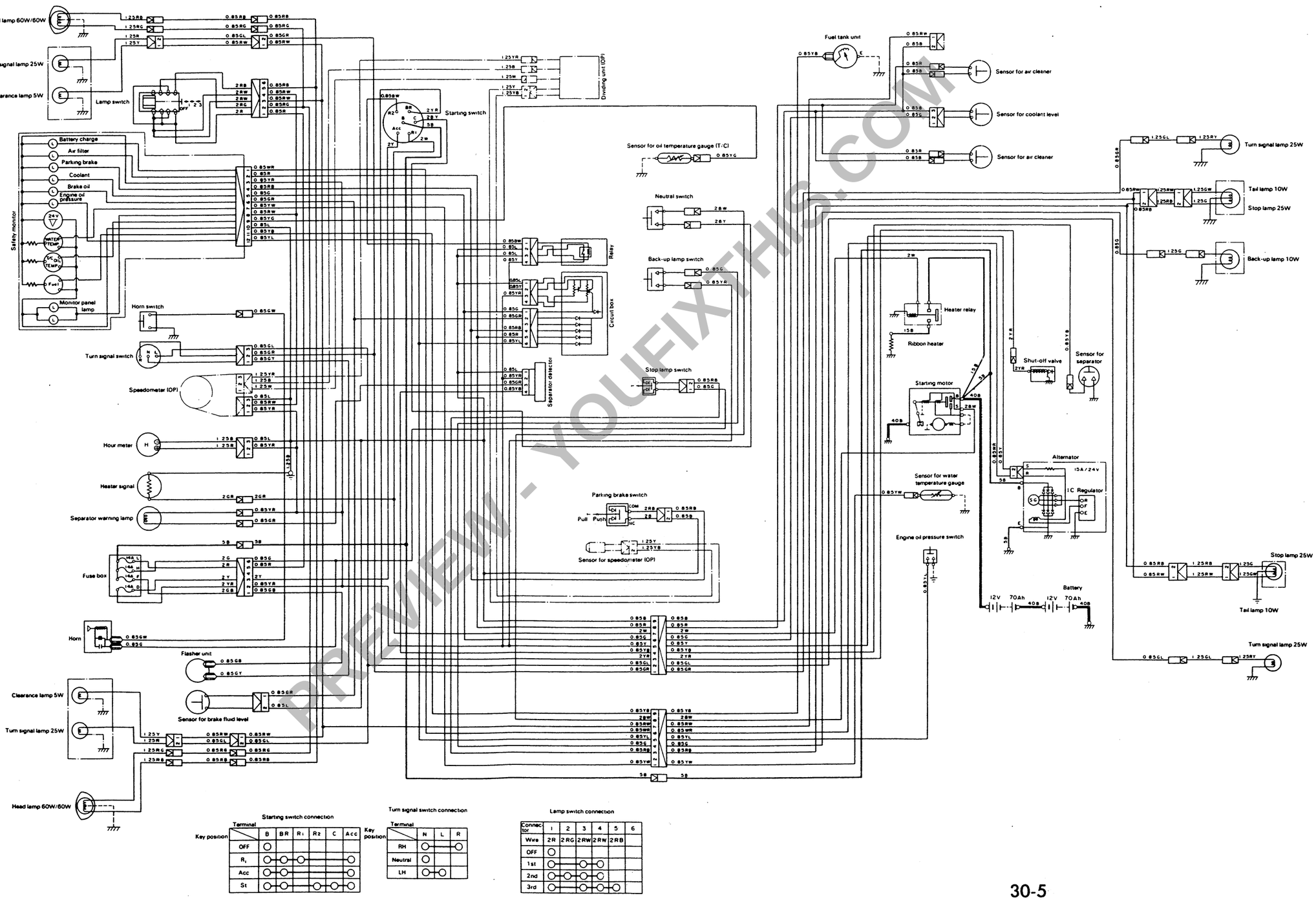
Performance may vary due to operating conditions. The performance shown represents nominal values under typical operating conditions. Most values shown in this publication are rounded. Therefore, direct conversion between metric and imperial may be slightly different from those shown. Specifications are subject to improvements and changes without notice.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

WIRING DIAGRAM

FD50/60/70, FD60H/70H/80H



Starting switch connection

Key position \ Terminal	B	BR	R1	R2	C	Acc
OFF	○					
R1	○	○	○			
Acc	○				○	
St	○	○		○	○	

Turn signal switch connection

Key position \ Terminal	N	L	R
RH	○		○
Neutral	○		
LH	○	○	

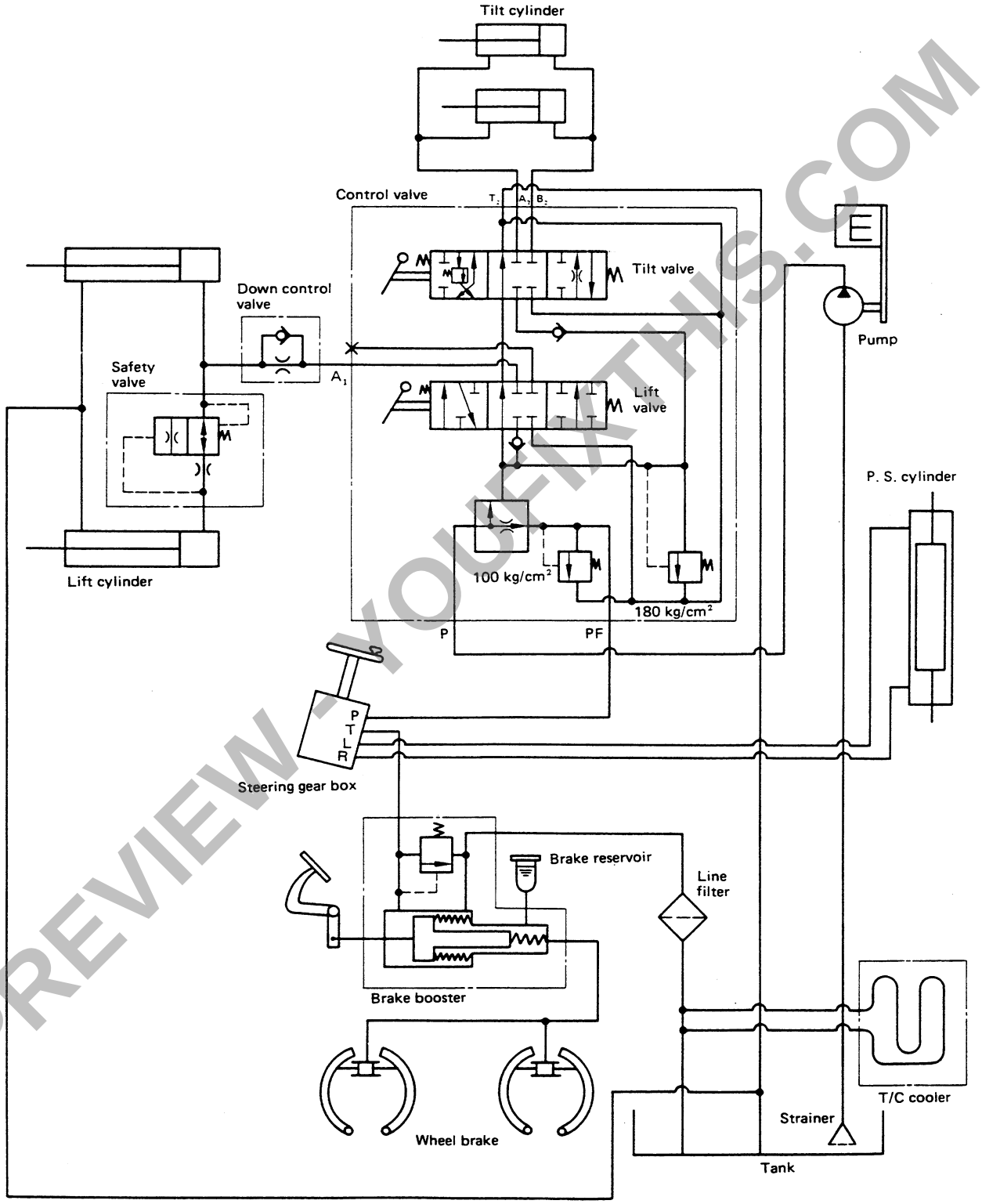
Lamp switch connection

Connector	1	2	3	4	5	6
Wire	2R	2RG	2RW	2RW	2RB	
OFF	○					
1st	○		○			
2nd	○	○	○			
3rd	○	○		○	○	

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

2) Work equipment and steering system



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

STANDARD TIGHTENING TORQUE FOR BOLTS

TIGHTENING TORQUE when using torque wrench or spanner shall be in accordance with Table. This torque shall be used when TIGHTENING TORQUE of especially narrow range is required.

1. In the case of using of impact wrenches or spanners

Unit: kg.m

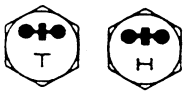
Thread dia.	Width across flats: Conventional threads	Width across flats: ISO threads	S43C, SMn34CH, SMn40CH,SCM3H or superior ones: Range	S43C, SMn34CH, SMn40CH,SCM3H or superior ones: Target
6	10	10	0.9 ~ 1.5	1.2
8	14	13	1.5 ~ 3.5	2.5
10	17	17	3.5 ~ 7.5	5.5
12	19	19	5.5 ~ 12.5	9.0
14	21	22	8.5 ~ 20.0	14.0
16	23	24	15.0 ~ 31.5	23.5
18	26	27	20.5 ~ 43.5	32.0
20	29	30	32.5 ~ 62.0	47.0
22	32	32	48.0 ~ 84.5	66.5
24	35	36	60.0 ~ 105	82.5
27	41	41	90.0 ~ 150	120
30	46	46	115 ~ 195	155
33	50	50	150 ~ 250	200
36	54	55	190 ~ 310	250
39	58	60	230 ~ 370	300

2. In the case of using of torque wrenches

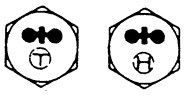
Unit: kg.m

Thread dia.	Width across flats: Conventional threads	Width across flats: ISO threads	S43C,SMn34CH, SMn40CH,SCM3H or superior ones: Range	S43C,SMn34CH, SMn40CH,SCM3H or superior ones: Target
6	10	10	1.2 ~ 1.5	1.35
8	14	13	2.8 ~ 3.5	3.2
10	17	17	6 ~ 7.5	6.7
12	19	19	10 ~ 12.5	11.5
14	21	22	16 ~ 20.0	18
16	23	24	25 ~ 31.5	28.5
18	26	27	35 ~ 43.5	39
20	29	30	50 ~ 62.0	56
22	32	32	67.5 ~ 84.5	76
24	35	36	84 ~ 105	94.5
27	41	41	120 ~ 150	135
30	46	46	155 ~ 195	175
33	50	50	200 ~ 250	225
36	54	55	250 ~ 310	280
39	58	60	295 ~ 370	335

This table does not apply to the bolts with which nylon packings or other non-ferrous metai washers are to be used, or which require to be tightened to an otherwise specified torque.



Conventional screw threads

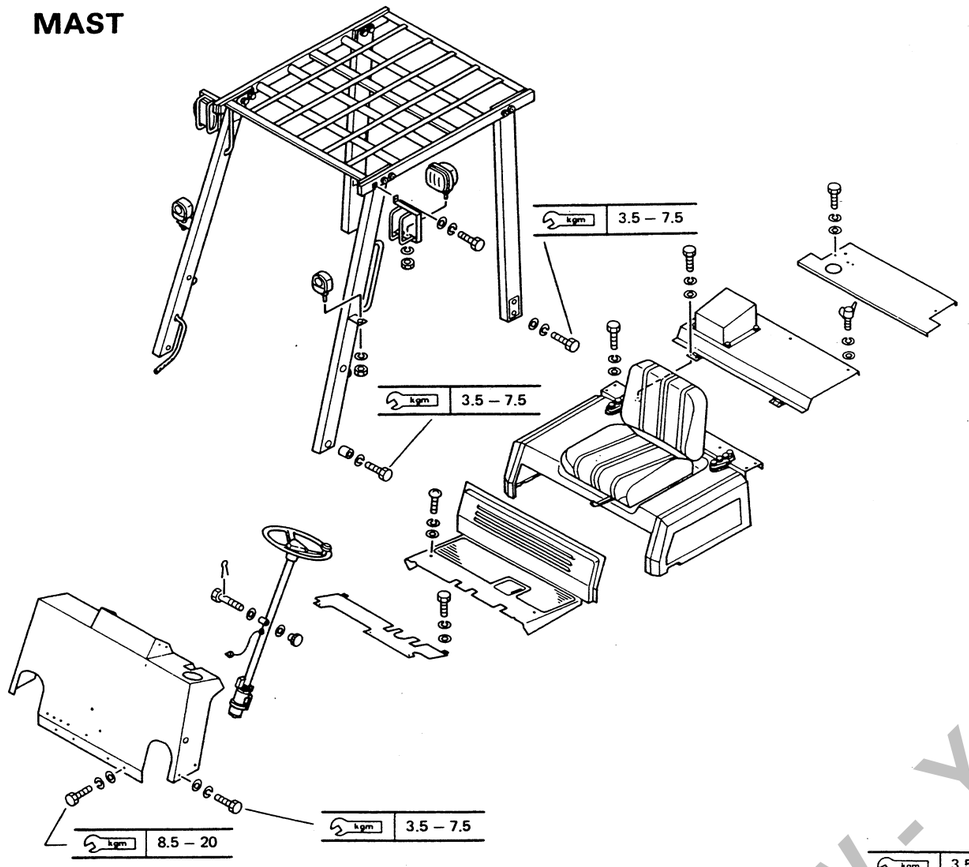


ISO screw threads

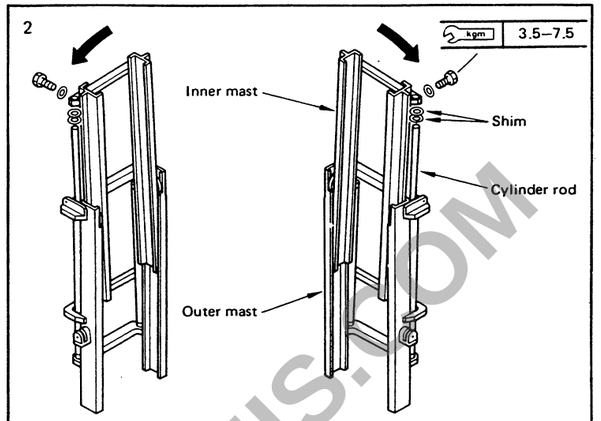
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

MAST



2



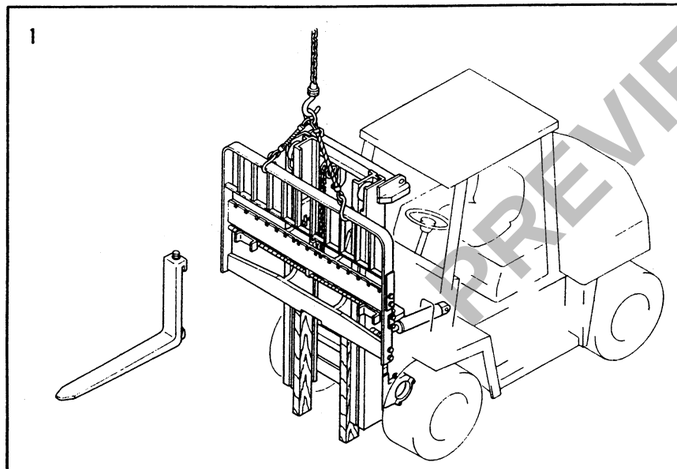
Angled to left.	Insert shims into left cylinder.
Angled to right.	Insert shims into right cylinder.

Adjust so that the right and left cylinders are synchronized with each other at the highest position.

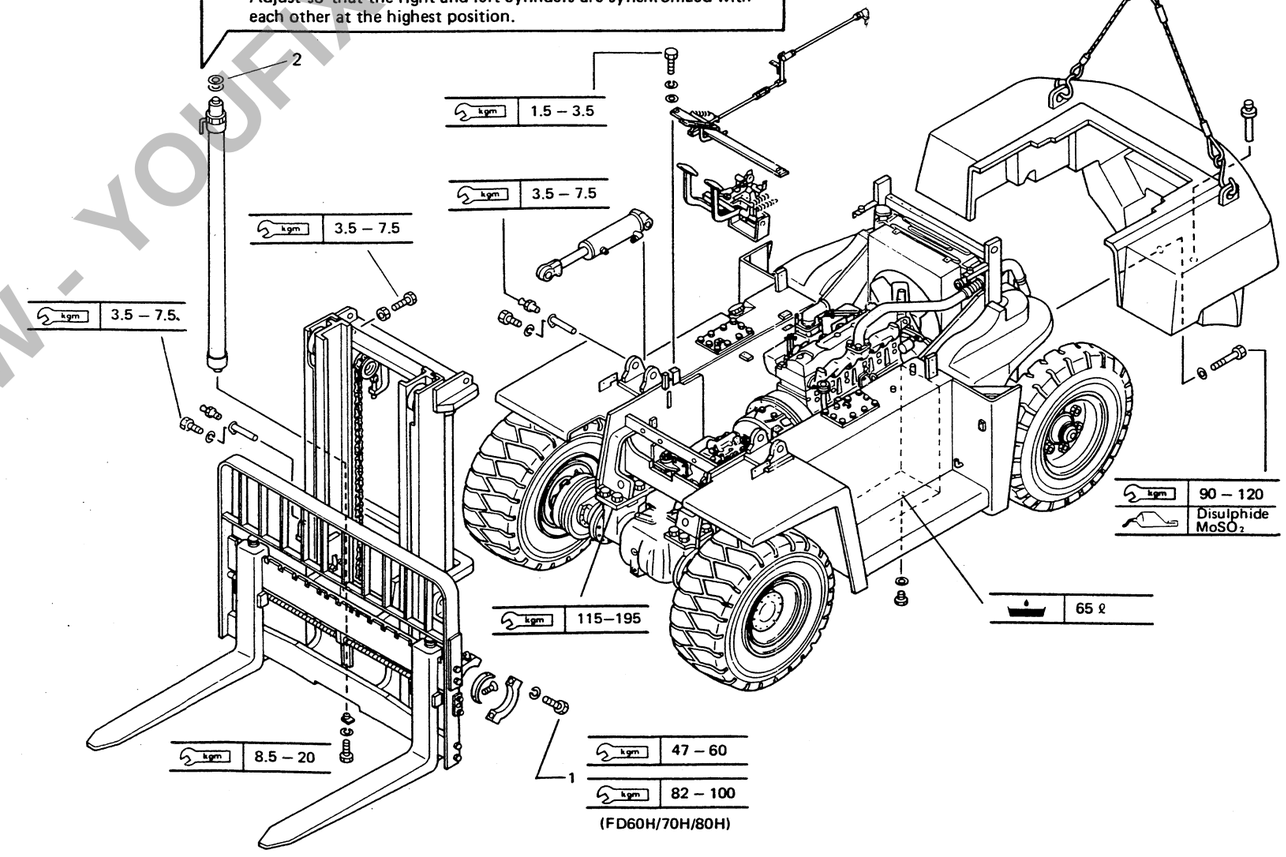
Lift cylinder air bleeding

- Start the engine and set it to the low idling.
- Raise or lower the mast.
  In this case, it must be stopped at a position approximately 100 mm before the highest or lowest positions.
- Repeat the same procedure four or five times.
- Then, operate the mast to the highest and lowest positions.
- Repeat the same procedure four or five times.

1



Insert blocks to prevent the fork carriage from coming down.



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

FD60E-5

									FD60E-5
Characteristics	1	Model	Manufacturer's designation						
	2	Capacity	Capacity at 600mm (24in.) Load Center					kg (lbs)	6000 (13,200)
	3	Power Type	Diesel, Gasoline, LPG						Diesel
	4	Tire Type	Solid, Pneumatic						Pneumatic
	5	Operator Type	Driver Standing, Sitting						Sitting
	6	Wheels (*=driven)	Number front/rear						4*/2
Dimensions	7	Lift	h_3	Max. Fork Height				mm (in.)	3000 (118)
	8		h_2	Free Lift				mm (in.)	215 (8.5)
	9	Forks	s.e.l.	Thickness x Width x Length				mm (in.)	60x150x1220 (2.4x5.9x48.0)
	10	Tilting Angle	α/β	Forward/Backward				°	6/12
	11	Overall Dimensions	H	Height, Overhead Guard				mm (in.)	2420 (95.3)
	12		L_2	Length to face of forks				mm (in.)	3485 (137.2)
	13		B	Width				mm (in.)	1940 (76.4)
	14		h_1	Height, Mast lowered				mm (in.)	2470 (97.2)
	15		h_4	Height, Mast extended				mm (in.)	4350 (171.3)
	16	Turning Radius	Wa	Outside				mm (in.)	3300 (129.9)
	17	Load Distance	X	From Center of front axle				mm (in.)	535 (21.1)
	18	Right Angle Stacking Aisle	Plus Load Length					mm (in.)	3835 (151.0)
Performance	19	Speeds	Travel	Forward	Loaded	1st/2nd		km/h (mph)	10/25 (6.2/15.5)
	20				Unloaded	1st/2nd		km/h (mph)	10/27 (6.2/16.8)
	21			Reverse	Loaded	1st/2nd		km/h (mph)	10/25 (6.2/15.5)
	22				Unloaded	1st/2nd		km/h (mph)	10/27 (6.2/16.8)
	23		Lifting Loaded/Unloaded					mm/s (fpm)	350/360 (69/71)
	24		Lowening Loaded/Unloaded					mm/s (fpm)	400/400 (79/79)
	25	Max. Drawbar Pull						kg (lbs)	6000 (13,230)
	26	Gradeability	Loaded/Unloaded					%	44/23
Weights	27	Service Weight						kg (lbs)	7400 (16,310)
	28	Axle Loading	Loaded front/rear					kg (lbs)	12130 1270 (26,740 2,800)
	29		Unloaded front/rear					kg (lbs)	3160/4240 (6,970/9,350)
Chassis & Wheels	30	Tire Size	Front						7.50-15-12PR (I)
	31		Rear						7.50-15-12PR (I)
	32	Wheelbase	y					mm (in.)	2300 (90.6)
	33	Tread	front/rear					mm (in.)	1450/1460 (57.1/57.5)
	34	Ground Clearance	m_1	Lowest point				mm (in.)	190 (7.5)
	35		m_2	Center of frame				mm (in.)	300 (11.8)
	36	Brakes	Service						Hydraulic, Powered
	37		Parking						Mechanical
	38	Steering	Type						Power Steering
Drive	39	Battery	Voltage/Capacity 20-hour rating					V Ah	24/60
	40	Internal Combustion Engine	Make/Model						KOMATSU 6D95L
	41		Rated Horsepower/RPM					HP/rpm	82/2150
	42		Max. Torque/RPM					kgm (lb.ft)/rpm	28 (203)/1500
	43		Number of cylinders/Displacement					cc (cu.in.)	6/4890 (298)
	44		Cylinder Bore x Stroke					mm (in.)	95x115 (3.7x4.5)
	45		Fuel Tank Capacity					ltr (U.S.gal)	120 (32)
	46		Air Cleaner						Cyclone
	47	Clutch	Type						Torque Converter
	48	Transmission	Type						TORQFLOW
	49	Hydraulic	Max. Pressure					kg cm² (psi)	180 (2,550)
	50		Tank Capacity					ltr (U.S.gal)	65 (17)

ANSI AND INSURANCE CLASSIFICATION

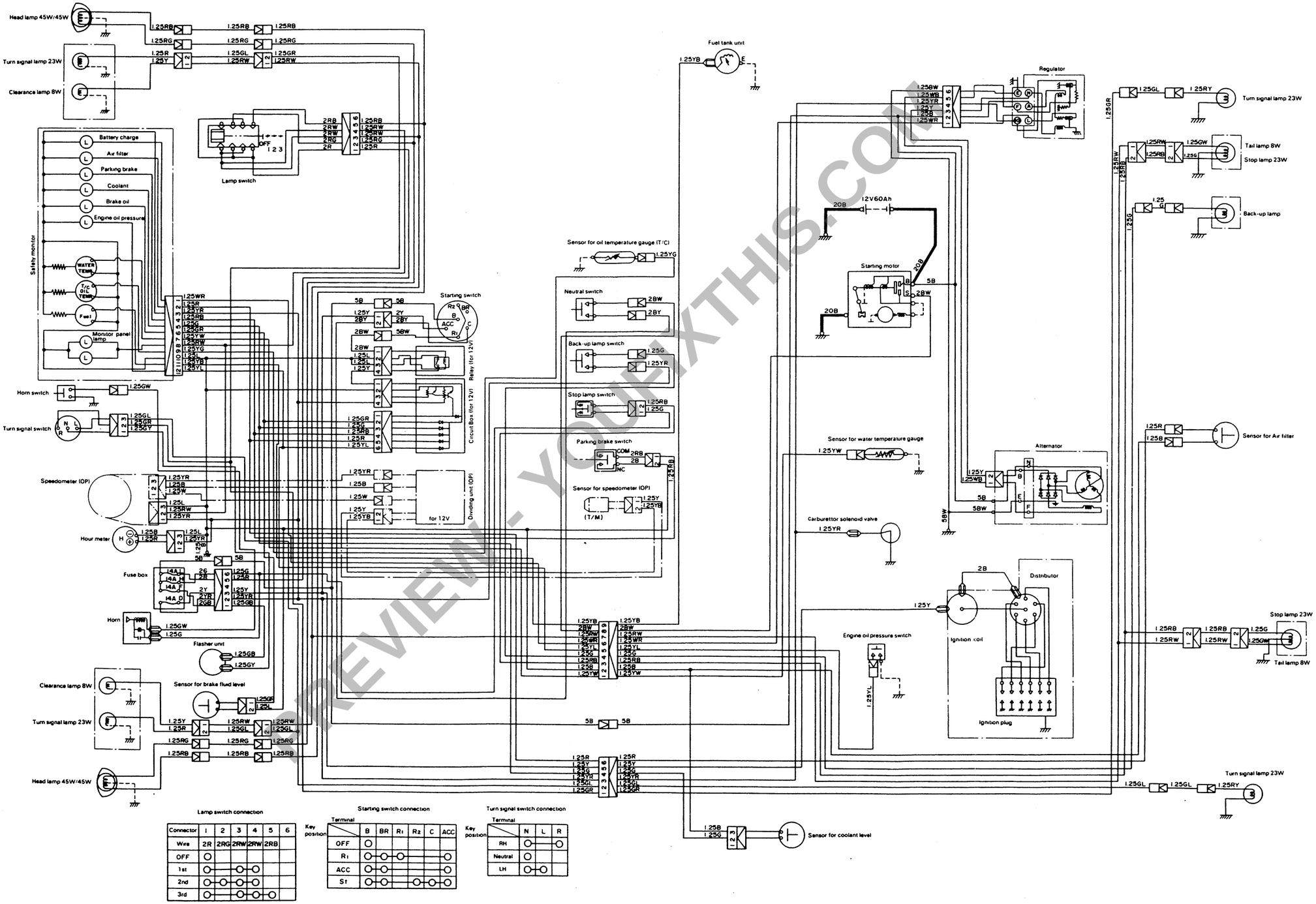
Overhead guard on standard truck meets all applicable mondatory requirements of Part II-ANSI-B 56.1 1969-1975 Safety Standard for Powered Industrial Trucks. Underwriters Laboratories requirements as to fire hazard only for D classification available.

Performance may vary due to operating conditions. The performance shown represents nominal values under typical operating conditions.
Most values shown in this publication are rounded. Therefore, direct conversion between metric and imperial may be slightly different from those shown.
Specifications are subject to improvements and changes without notice.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

FG50/60/70



Lamp switch connection

Connector	1	2	3	4	5	6
Wire	2R	2RG	2RW	2RW	2RW	2RB
OFF	○					
1st	○		○	○		
2nd	○	○	○	○		
3rd	○		○	○	○	

Starting switch connection

Key position \ Terminal	B	BR	R1	R2	C	ACC
OFF	○					
R1	○	○	○			○
ACC	○					○
St	○			○	○	○

Turn signal switch connection

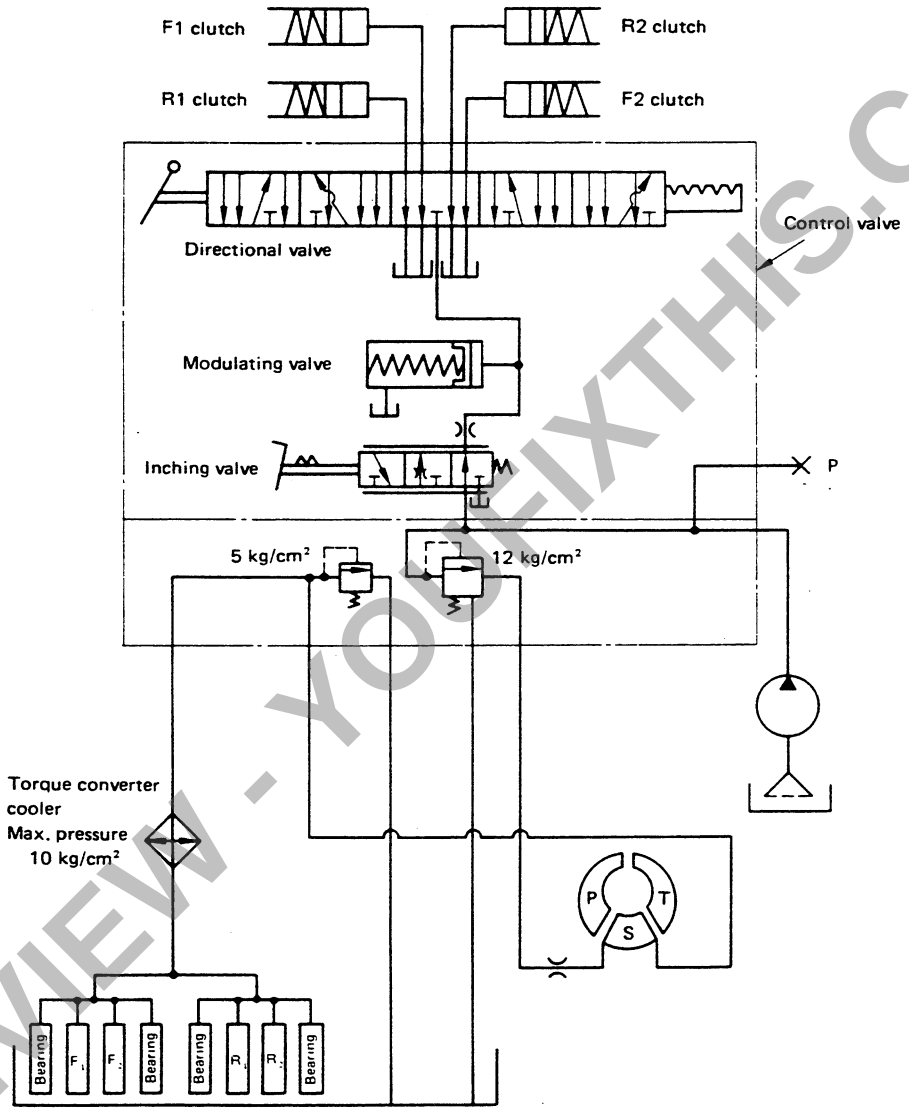
Key position \ Terminal	N	L	R
RH	○		○
Neutral	○		
LH	○	○	

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

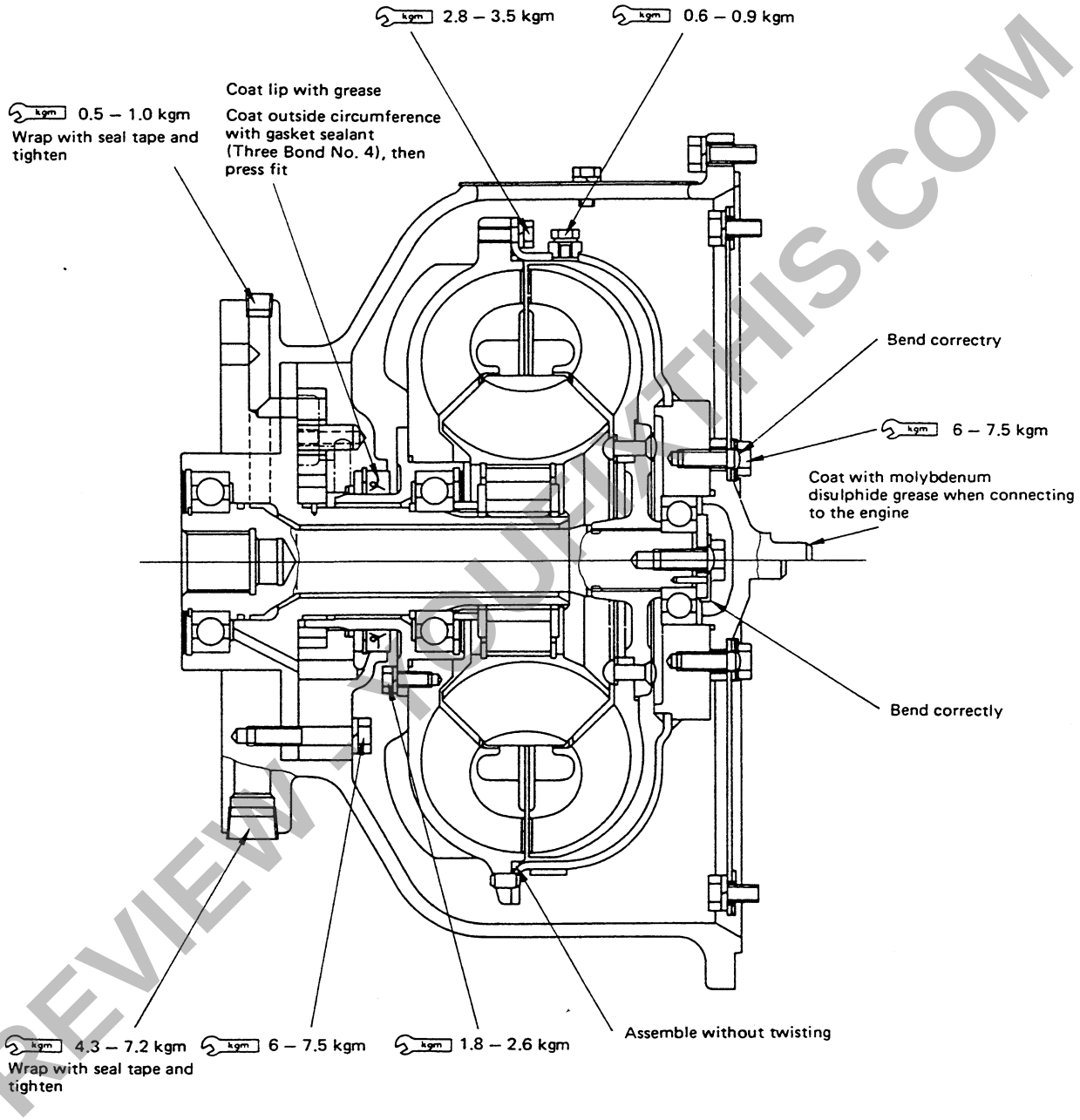
HYDRAULIC CIRCUIT

1) TORQFLOW system



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

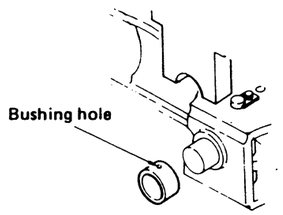


PREVIEW - YOUFIXTHIS.COM

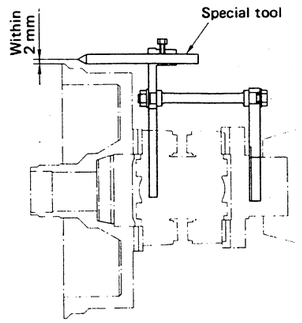
Download full manual at youfixthis.com

POWER TRAIN

1 Rear axle support bushing

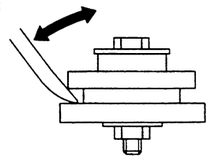


2 Centering

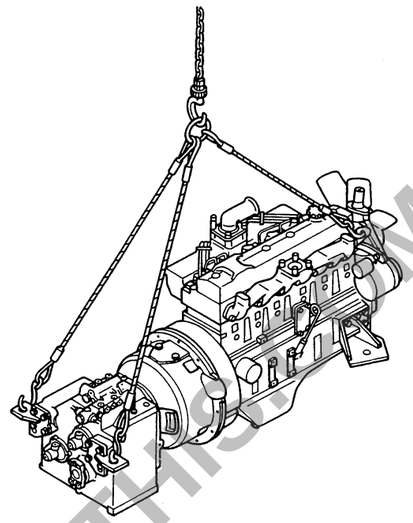


Out of centering	Within 2 mm (Both the top and bottom, and right and left)

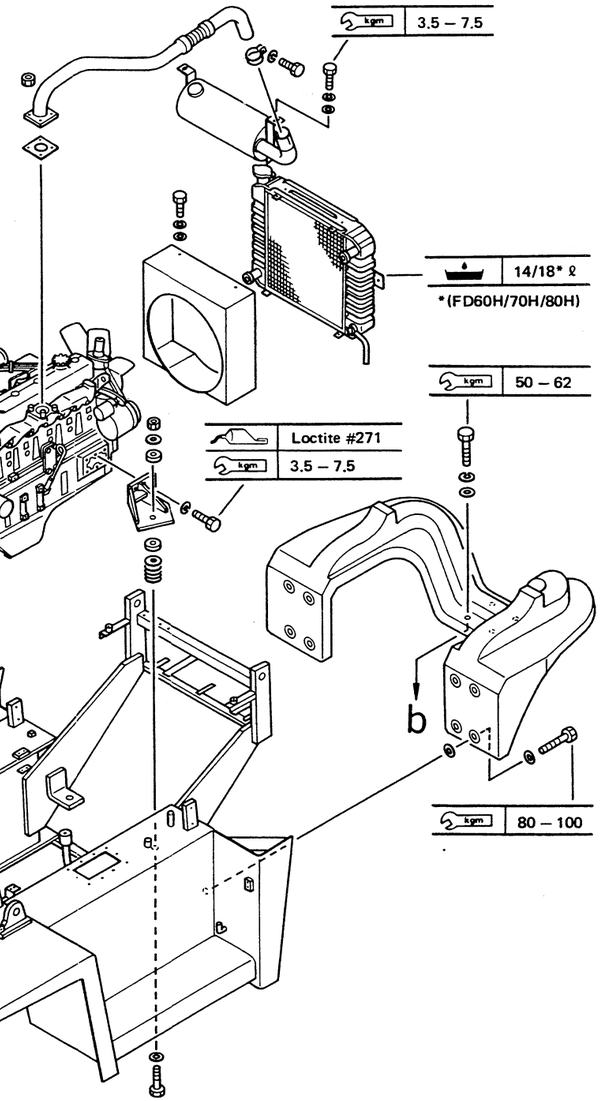
3 Engine mount



Out of centering	Within 2 mm (Both the top and bottom, and right and left)

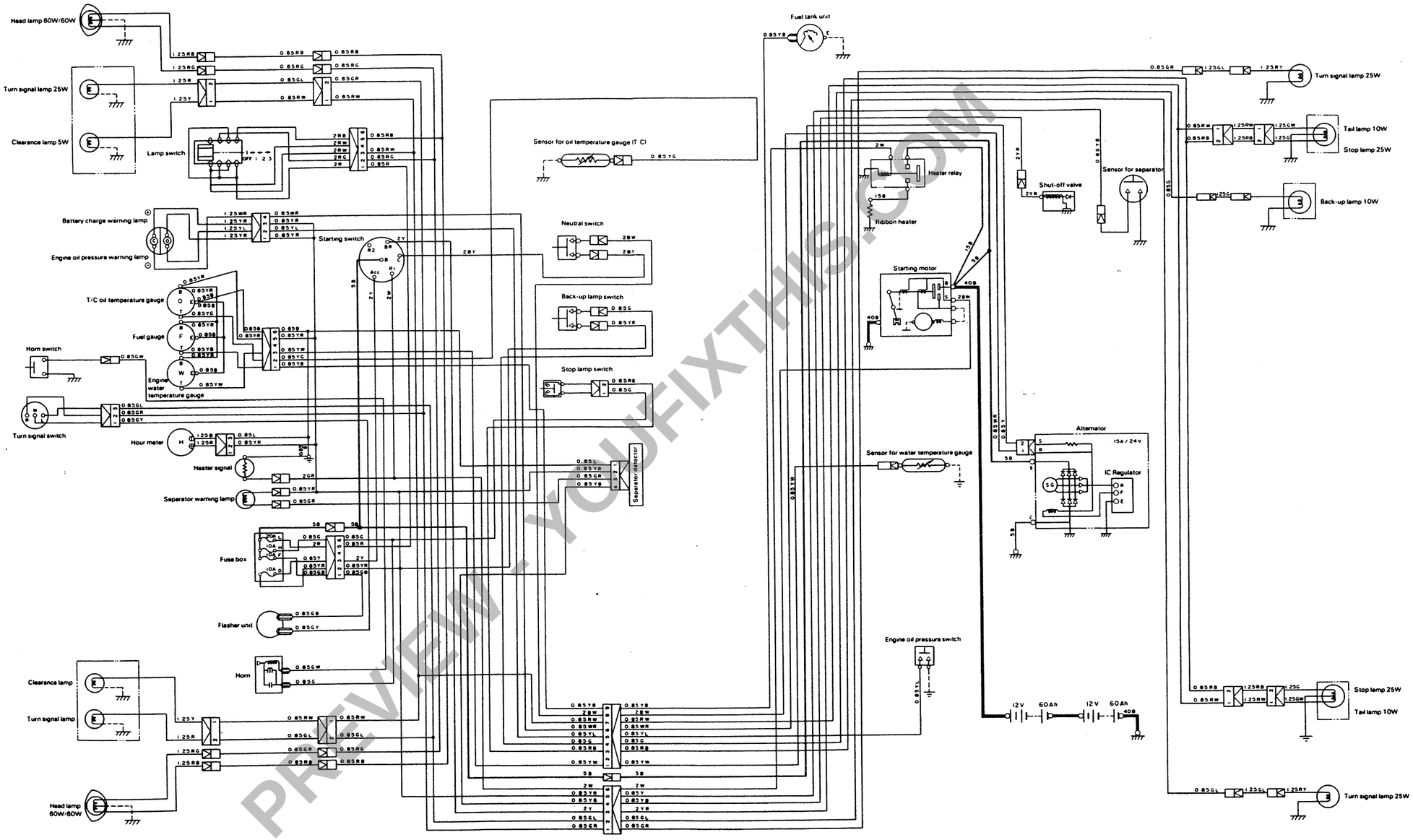


- See page 15 for connecting and removing the hydraulic piping.
- See page 17 for connecting and disconnecting the wiring.



PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

FD50E/60E/70E



Lamp switch connection

Key position \ Terminal	N	L	R
RH	○		○
Neutral	○		
LH	○	○	

Starting switch connection

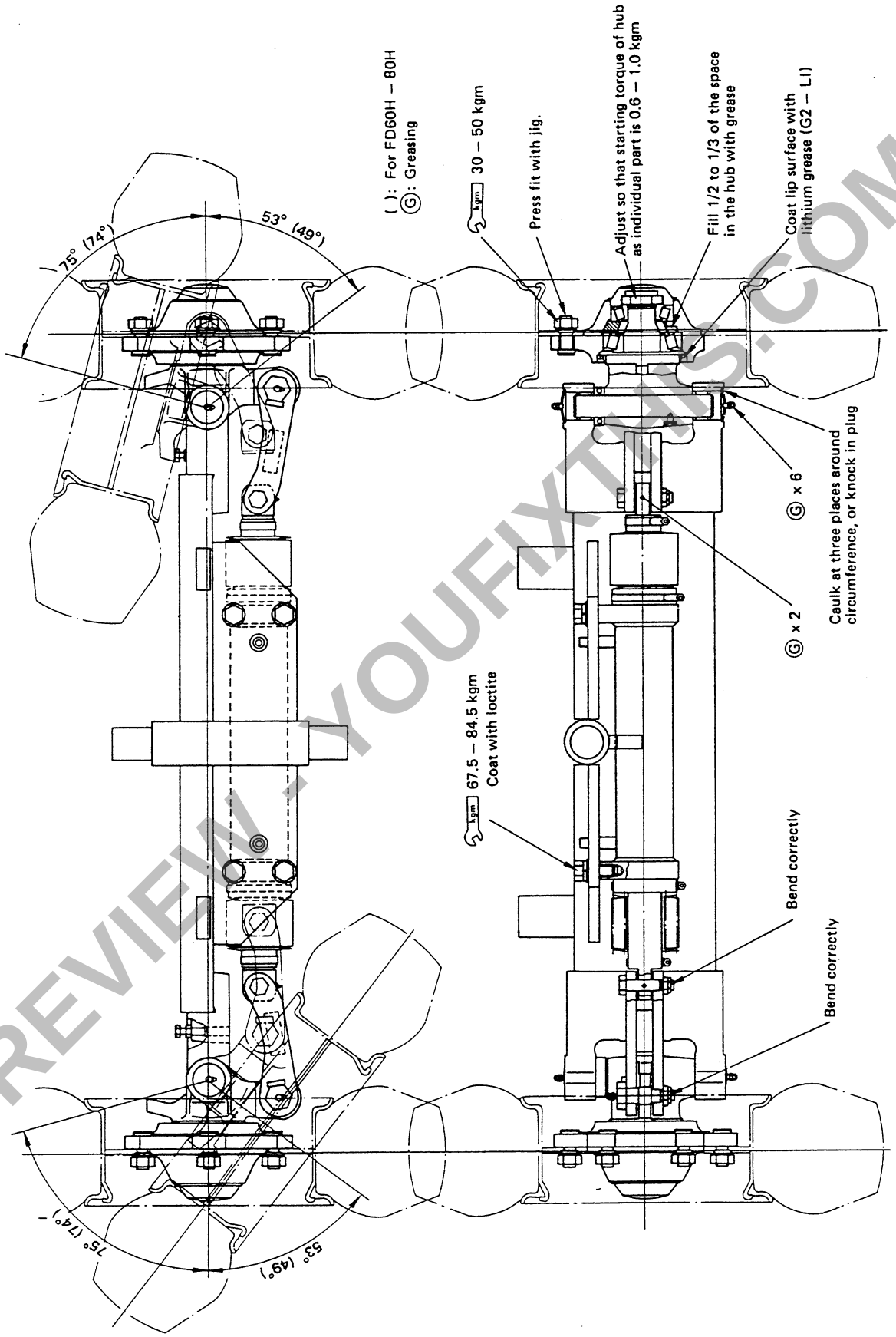
Connector	1	2	3	4	5	6
Wire	2 R	2RG	2RW	2RW	2RW	2RB
OFF	○					
1st	○		○	○		
2nd	○	○	○	○		
3rd	○		○	○	○	○

Turn signal switch connection

Key position \ Terminal	B	BR	R_1	R_2	C	Acc
OFF	○					
R_1	○		○			○
Acc	○					○
St	○	○		○	○	

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 179 pages

The full manual includes:

- All 179 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Komatsu FG50-5, FG60-5, FG70-5, FD50-5, FD60-5, FD70-5, FD50E-5, FD60E-5, FD70E-5, FD60H-5, FD70H-5, FD80H-5 Shop Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual