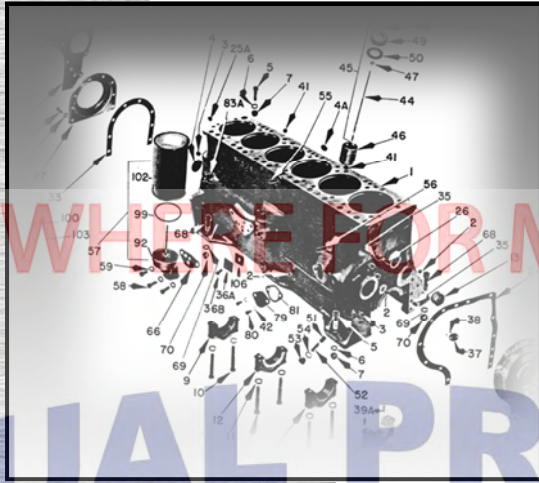




Caterpillar

Parts Manual

176 & 183

Hydraulic Controls

S/n 36E1 - 36E8992

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CT-P-HC176,183

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176 & 183
HYDRAULIC CONTROLS

SERIAL NUMBERS

36E1 TO 36E8992

INCLUSIVE

JENSALES[®]

INDEX

Name	Page
Cover	40
Filter	17
Hand Control	39
Hose	21
Hydraulic Control	12
Hydraulic Control Arrangements for:	
Bulldozer	7
Bulldozer and Ripper	7
Bulldozer and Blade Tilt Cylinder	8
Bulldozer, Ripper and Blade Tilt Cylinder	9
Kickout—Ripper	42
Lines	27
Linkage—Control	35
Mounting	19
Pedal—Foot	43
Specifications	44
Valve	14

CLICK ANYWHERE FOR MORE DETAILS

INDEX ALPHABÉTIQUE

Désignation	Page
Canalisations	27
Caractéristiques	44
Commande hydraulique	12
Couvercle	40
Dispositif de déverrouillage (Ripper)	42
Filtre	17
Groupe de montage	19
Installations pour:	
Bulldozer	7
Bulldozer et Ripper	7
Bulldozer et vérin d'inclinaison de lame	8
Bulldozer, Ripper et vérin d'inclinaison de lame	9
Leviers de commande	39
Pédale de commande d'inclinaison de lame	43
Timonerie	35
Tuyaux souples	21
Valve sélective	14

INDICE

Nombre	Página
Conexiones—Control	35
Conjuntos de Control Hidráulico para:	
Bulldozer	7
Bulldozer, Desgarrador y Cilindro de Inclinación de la Hoja	9
Bulldozer y Cilindro de Inclinación de la Hoja	8
Bulldozer y Desgarrador	7
Control Hidráulico	12
Control Manual	39
Desenganche—Desgarrador	42
Especificaciones	44
Filtro	17
Manguera	21
Montaje	19
Pedal del Cilindro de Inclinación de la Hoja	43
Tapa	40
Tuberías	27
Válvula	14

Í N D I C E

Nomenclatura	Página
Arranjos de Comando Hidráulico para:	
Bulldozer	7
Bulldozer e escarificador	7
Cilindro inclinador da lâmina, bulldozer e escarificador	9
Cilindro inclinador da lâmina e bulldozer	8
Articulações de controle	35
Comando hidráulico	12
Contrôle manual	39
Especificações	44
Filtro	17
Limitador—escarificador	42
Mangueira	21
Pedal	43
Suporte	19
Tampa	40
Tubos	27
Válvula	14

INHALTSVERZEICHNIS

Bezeichnung	Seite
Abdeckung	40
Anschlussteile (Pumpe)	19
Filter	17
Fusspedal	43
Handsteuerhebel	39
Hydraulik-Steueranlage	12
Hydraulik-Steueranordnung für:	
Planiergerät	7
Planiergerät und Tiefreisser	7
Planiergerät und Schildkipppylinder	8
Planiergerät, Tiefreisser und Schildkipppylinder	9
Leitungen	27
Schläuch	21
Steuergestänge	35
Technische Daten	44
Tiefreisser-Auslösevorrichtung	42
Ventil	14

FOR D8 TRACTORS SERIAL NO. 35A1—UP,
36A1—UP AND 46A1—UP

3J4873 Front Mounted—100 U.S. Gallons per Minute—Single Valve

For use with 8C Bulldozer

Consists of:		Page
I	2J1639 Filter Group	17
I	2J1660 Hydraulic Control Group	12
I	2J2770 Mounting Group	19
I	2J2771 Hose Group	21
I	2J2772 Hose Group	22
I	2J2774 Control Linkage Group	37
I	2J3606 Hand Control Group	39
I	3J4872 Lines Group	Between 28 & 29

3J4874 Front Mounted—100 U.S. Gallons per Minute—Double Valve

For use with 8C Bulldozer and Ripper

Consists of:		Page
I	2J1639 Filter Group	17
I	2J1660 Hydraulic Control Group	12
I	2J2770 Mounting Group	19
I	2J2772 Hose Group	22
I	2J2774 Control Linkage Group	37
I	2J2775 Hose Group	23
I	2J2776 Lines Group	29
I	2J2778 Lines Group	27
I	2J2779 Control Linkage Group	35
I	2J2780 Lines Group	31
I	2J2781 Cover Group	40
I	2J3607 Hand Control Group	40
I	3J1160 External Valve Group	16
I	3J4872 Lines Group	Between 28 & 29

HYDRAULIC CONTROL ARRANGEMENTS

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

**FOR USE ON D8 TRACTORS SERIAL NO. 35A1—UP,
36A1—UP AND 46A1—UP**

2J2745 Arrangement—100 U.S. Gallons per Minute—Single Valve
For use with Bulldozer

Only separate parts serviced. When complete Arrangement is required order 3J2409

Consists of:

	Page
2J1639 Filter Group	17
2J1660 Hydraulic Control Group	12
2J2770 Mounting Group	19
2J2771 Hose Group	21
2J2772 Hose Group	22
2J2773 Lines Group	28
2J2774 Control Linkage Group	37
2J3606 Hand Control Group	39
Installation Instruction Form No. 33254	

3J2409 Arrangement—100 U.S. Gallons per Minute—Single Valve
For use with Bulldozer

Consists of:

2J1639 Filter Group	17
2J1660 Hydraulic Control Group	12
2J2770 Mounting Group	19
2J2771 Hose Group	21
2J2772 Hose Group	22
2J2774 Control Linkage Group	37
2J3606 Hand Control Group	39
3J2218 Lines Group	34
Installation Instruction Form No. 33254	

2J2746 Arrangement—100 U.S. Gallons per Minute—Double Valve
For use with Bulldozer and Ripper

Only separate parts serviced. When complete Arrangement is required order 3J2410 listed on Page 8

Consists of:

2J1637 Valve Group	15
—or—	
3J1160 Valve Group	16
2J1639 Filter Group	17
2J1660 Hydraulic Control Group	12
2J1950 Kickout Group	42
2J2770 Mounting Group	19
2J2772 Hose Group	22
2J2773 Lines Group	28

(CONTINUED ON PAGE 8)

HYDRAULIC CONTROL ARRANGEMENTS

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

(2J2746 ARRANGEMENT CONTINUED FROM PAGE 7)

Page

2J2774	Control Linkage Group	37
2J2775	Hose Group	23
2J2776	Lines Group	29
2J2778	Lines Group	27
2J2779	Control Linkage Group	35
2J2780	Lines Group	31
2J2781	Cover Group	40
2J2782	Hose Group	23
2J3607	Hand Control Group	40
	Installation Instruction Form No. 33255	

3J2410 Arrangement—100 U.S. Gallons per Minute—Double Valve

For use with Bulldozer and Ripper

Consists of:

2J1639	Filter Group	17
2J1660	Hydraulic Control Group	12
2J2770	Mounting Group	19
2J2772	Hose Group	22
2J2774	Control Linkage Group	37
2J2775	Hose Group	23
2J2776	Lines Group	29
2J2778	Lines Group	27
2J2779	Control Linkage Group	35
2J2780	Lines Group	31
2J2781	Cover Group	40
2J3607	Hand Control Group	40
3J1160	Valve Group	16
3J2218	Lines Group	34
	Installation Instruction Form No. 33255	

2J2747 Arrangement—100 U.S. Gallons per Minute—Double Valve

For use with Bulldozer and Blade Tilt Cylinder

Only separate parts serviced. When complete Arrangement is required order 3J2411

Consists of:

2J1396	Control Valve Group	14
2J1637	Valve Group	15
	—or—	
3J1160	Valve Group	16
2J1639	Filter Group	17
2J1660	Hydraulic Control Group	12
2J2770	Mounting Group	19
2J2772	Hose Group	22
2J2773	Lines Group	28
2J2774	Control Linkage Group	37

(CONTINUED ON PAGE 9)

HYDRAULIC CONTROL ARRANGEMENTS

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

(2J2747 ARRANGEMENT CONTINUED FROM PAGE 8)

Page

	2J2775	Hose Group	23
	2J2776	Lines Group	29
	2J2778	Lines Group	27
	2J2783	Control Linkage Group	36
	2J2784	Foot Pedal Group	43
	—or—		
	3J661	Foot Pedal Group	43
	2J2785	Lines Group	32
	2J2786	Hose Group	24
	2J2787	Cover Group	41
	2J3606	Hand Control Group	39
	Installation Instruction Form No. 33256		

3J2411 Arrangement—100 U.S. Gallons per Minute—Double Valve

For use with Bulldozer and Blade Tilt Cylinder

Consists of:

	2J1396	Control Valve Group	14
	2J1639	Filter Group	17
	2J1660	Hydraulic Control Group	12
	2J2770	Mounting Group	19
	2J2772	Hose Group	22
	2J2774	Control Linkage Group	37
	2J2775	Hose Group	23
	2J2776	Lines Group	29
	2J2778	Lines Group	27
	2J2783	Control Linkage Group	36
	2J2785	Lines Group	32
	2J2786	Hose Group	24
	—or—		
	3J5979	Hose Group	25
	2J2787	Cover Group	41
	2J3606	Hand Control Group	39
	3J661	Foot Pedal Group	43
	3J1160	Valve Group	16
	3J2218	Lines Group	34
	Installation Instruction Form No. 33256		

2J2748 Arrangement—100 U.S. Gallons per Minute—Triple Valve

For use with Bulldozer, Ripper and Blade Tilt Cylinder

Only separate parts serviced. When complete Arrangement is required order 3J2412 listed on Page 10

Consists of:

	2J1396	Control Valve Group	14
2	2J1637	Valve Group	15
	—or—		
2	3J1160	Valve Group	16

(CONTINUED ON PAGE 10)

HYDRAULIC CONTROL ARRANGEMENTS

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

(2J2748 ARRANGEMENT CONTINUED FROM PAGE 9)

Page

1	2J1639	Filter Group	17
1	2J1660	Hydraulic Control Group	12
1	2J1950	Kickout Group	42
1	2J2770	Mounting Group	19
1	2J2772	Hose Group	22
1	2J2773	Lines Group	28
1	2J2774	Control Linkage Group	37
1	2J2775	Hose Group	23
1	2J2777	Lines Group	30
1	2J2778	Lines Group	27
1	2J2779	Control Linkage Group	35
1	2J2780	Lines Group	31
1	2J2781	Cover Group	40
1	2J2782	Hose Group	23
1	2J2788	Control Linkage Group	39
1	2J2789	Lines Group	33
1	2J2791	Hose Group	26
1	2J2792	Cover Group	41
1	2J3607	Hand Control Group	40
1		Installation Instruction Form No. 33257	
3J2412	Arrangement—100 U.S. Gallons per Minute—Triple Valve		
	For use with Bulldozer, Ripper and Blade Tilt Cylinder		
	Consists of:		
1	2J1396	Control Valve Group	14
1	2J1639	Filter Group	17
1	2J1660	Hydraulic Control Group	12
1	2J2770	Mounting Group	19
1	2J2772	Hose Group	22
1	2J2774	Control Linkage Group	37
1	2J2775	Hose Group	23
1	2J2777	Lines Group	30
1	2J2778	Lines Group	27
1	2J2779	Control Linkage Group	35
1	2J2780	Lines Group	31
1	2J2781	Cover Group	40
1	2J2788	Control Linkage Group	39
1	2J2789	Lines Group	33
1	2J2791	Hose Group	26
	—or—		
1	3J5980	Hose Group	27
1	2J2792	Cover Group	41
1	2J3607	Hand Control Group	40
2	3J1160	Valve Group	16
1	3J2218	Lines Group	34
1		Installation Instruction Form No. 33257	

HYDRAULIC CONTROL ARRANGEMENTS

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

**FOR D8 TRACTORS SERIAL NO. 35A1—UP,
36A1—UP AND 46A1—UP**

4J7715 Arrangement—100 U.S. Gallons per Minute—Triple Valve

For use with Bulldozer, Ripper and Pin Puller

Consists of:

	Page
1 2J1396 Flow Control Valve Group.....	14
1 2J1639 Oil Filter Group.....	17
1 2J1660 Hydraulic Control Group.....	12
1 2J2770 Mounting Group.....	19
1 2J2772 Filter Outlet Hose Group.....	22
1 2J2774 Bulldozer Control Linkage Group.....	37
1 2J2775 Hose Group.....	23
1 2J2777 Crossover Lines Group.....	30
1 2J2778 External Valve to Filter Lines Group.....	27
—or—	
1 4J8258 External Valve to Filter Lines Group.....	Between 26 & 27
1 2J2779 Ripper Control Linkage Group.....	35
1 2J2780 Ripper Lines Group.....	31
1 2J2781 External Valve Cover Group—Ripper.....	40
1 2J2788 Blade Tilt Control Linkage Group.....	39
1 2J2792 External Valve Cover Group.....	41
1 2J3607 Bulldozer and Ripper Hand Control Group.....	40
2 3J1160 External Valve Group.....	16
1 3J2218 Bulldozer Lines Group.....	34
—or—	
1 4J8116 Bulldozer Lines Group.....	Between 34 & 55

FOR D8 TRACTORS SERIAL NO. 36A1—UP AND 46A1—UP

4J8440 Arrangement—100 U.S. Gallons per Minute—Single Valve

For use with Bulldozer

Consists of:

	Page
1 2J1639 Oil Filter Group.....	17
1 2J1660 Hydraulic Control Group.....	12
1 2J2770 Mounting Group.....	19
1 2J2771 Filter Inlet Hose Group.....	21
1 2J2772 Filter Outlet Hose Group.....	22
1 2J2774 Bulldozer Control Linkage Group.....	37
1 2J3606 Hand Control Group.....	39
1 4J8116 Bulldozer Lines Group.....	Between 34 & 35
Installation Instructions Form No. 33254	

FOR D8 TRACTORS SERIAL NO. 36A1—UP AND 46A1—UP

4J8441 Arrangement—100 U.S. Gallons per Minute—Double Valve

For use with Bulldozer and Ripper

Consists of:

Page

2J1639	Oil Filter Group.....	17
2J1660	Hydraulic Control Group.....	12
2J2770	Mounting Group.....	19
2J2772	Filter Outlet Hose Group.....	22
2J2774	Bulldozer Control Linkage Group.....	37
2J2775	Hose Group.....	23
2J2776	Crossover Lines Group.....	30
2J2779	Ripper Control Linkage Group.....	35
2J2780	Ripper Lines Group.....	31
2J2781	External Valve Cover Group—Ripper.....	40
2J3607	Bulldozer and Ripper Hand Control Group...	40
3J1160	External Valve Group.....	16
4J8116	Bulldozer Lines Group.....	Between 34 & 35
4J8258	External Valve to Filter Lines Group.....	Between 26 & 27
.....	Installation Instructions form No. 33255	

4J8442 Arrangement—100 U.S. Gallons per Minute—Double Valve

For use with Bulldozer and Blade Tilt Cylinder

Consists of:

Page

2J1396	Flow Control Valve Group.....	14
2J1639	Oil Filter Group.....	17
2J1660	Hydraulic Control Group.....	12
2J2770	Mounting Group.....	19
2J2772	Filter Outlet Hose Group.....	22
2J2774	Bulldozer Control Linkage Group.....	37
2J2775	Hose Group.....	23
2J2776	Crossover Lines Group.....	30
2J2783	Crossover Control Linkage Group.....	36
2J2785	Blade Tilt Cylinder Lines Group.....	32
2J2787	External Valve Cover Group.....	41
2J3606	Hand Control Group.....	39
3J661	Foot Pedal Group.....	43
3J1160	External Valve Group.....	16
3J5979	Tilt Cylinder Crossover Hose Group.....	25
4J8116	Bulldozer Lines Group.....	Between 34 & 35
4J8258	External Valve to Filter Lines Group.....	Between 26 & 27
.....	Installation Instructions Form 33256	

FOR D8 TRACTORS SERIAL NO. 36A1—UP AND 46A1—UP

4J8444 Arrangement—100 U.S. Gallons per Minute—Double Valve

For use with No. 8C Bulldozer and Ripper

Consists of:

	Page
1 2J1639 Oil Filter Group.....	17
1 2J1660 Hydraulic Control Group.....	12
1 2J2770 Mounting Group.....	19
1 2J2772 Filter Outlet Hose Group.....	22
1 2J2774 Bulldozer Control Linkage Group.....	37
1 2J2775 Hose Group.....	23
1 2J2776 Crossover Lines Group.....	30
1 2J2779 Ripper Control Linkage Group.....	35
1 2J2780 Ripper Lines Group.....	31
1 2J2781 External Valve Cover Group—Ripper.....	40
1 2J3607 Bulldozer and Ripper Hand Control Group.....	40
1 3J1160 External Valve Group.....	16
1 3J4872 Bulldozer Lines Group.....	Between 28 & 29
1 4J8258 External Valve to Filter Lines Group.....	Between 26 & 27

4J8443 Arrangement—100 U.S. Gallons per Minute—Triple Valve

For use with Bulldozer, Ripper and Blade Tilt Cylinder

Consists of:

	Page
1 2J1396 Flow Control Valve Group.....	14
1 2J1639 Oil Filter Group.....	17
1 2J1660 Hydraulic Control Group.....	12
1 2J2770 Mounting Group.....	19
1 2J2772 Filter Outlet Hose Group.....	22
1 2J2774 Bulldozer Control Linkage Group.....	37
1 2J2775 Hose Group.....	23
1 2J2777 Crossover Lines Group.....	30
1 2J2779 Ripper Control Linkage Group.....	35
1 2J2780 Ripper Lines Group.....	31
1 2J2781 External Valve Cover Group—Ripper.....	40
1 2J2788 Blade Tilt Control Linkage Group.....	39
1 2J2792 External Valve Cover Group.....	41
1 2J3607 Bulldozer and Ripper Hand Control Group.....	40
2 3J1160 External Valve Group.....	16
1 3J5980 Blade Tilt Hose Group.....	27
1 4J8116 Bulldozer Lines Group.....	Between 34 & 35
1 4J8200 Blade Tilt Cylinder Lines Group.....	Between 32 & 33
1 4J8258 External Valve to Filter Lines Group.....	Between 26 & 27
1 Installation Instructions Form No. 33257	

FOR D8 TRACTORS SERIAL NO. 36A1—UP AND 46A1—UP

4J8470 Arrangement—100 U.S. Gallons per Minute—Triple Valve

For use with Bulldozer, Ripper and Pin Puller

Consists of:

	Page
1 2J1396 Flow Control Valve Group.....	14
1 2J1639 Oil Filter Group.....	17
1 2J1660 Hydraulic Control Group.....	12
1 2J2770 Mounting Group.....	19
1 2J2772 Filter Outlet Hose Group.....	22
1 2J2774 Bulldozer Control Linkage Group.....	37
1 2J2775 Hose Group.....	23
1 2J2777 Crossover Lines Group.....	30
1 2J2779 Ripper Control Linkage Group.....	35
1 2J2780 Ripper Lines Group.....	31
1 2J2781 External Valve Cover Group—Ripper.....	40
1 2J2788 Blade Tilt Control Linkage Group.....	39
1 2J2792 External Valve Cover Group.....	41
1 2J3607 Bulldozer and Ripper Hand Control Group...	40
2 3J1160 External Valve Group.....	16
1 3J4872 Bulldozer Lines Group.....	Between 28 & 29
1 4J8258 External Valve to Filter Lines Group.....	Between 26 & 27

4J7236 Arrangement—100 U.S. Gallons per Minute—Triple Valve

For use with Bulldozer, Ripper, Blade Tilt Cylinder and Pin Puller

Consists of:

1 2J1396 Flow Control Valve Group.....	14
1 2J1639 Oil Filter Group.....	17
1 2J1660 Hydraulic Control Group.....	12
1 2J2770 Mounting Group.....	19
1 2J2772 Filter Outlet Hose Group.....	22
1 2J2774 Bulldozer Control Linkage Group.....	37
1 2J2775 Hose Group.....	23
1 2J2777 Crossover Lines Group.....	30
1 2J2778 External Valve to Filter Lines Group.....	27
— or —	
1 4J8258 External Valve to Filter Lines Group.....	Between 26 & 27
1 2J2779 Ripper Control Linkage Group.....	35
1 2J2780 Ripper Lines Group.....	31
1 2J2781 External Valve Cover Group—Ripper.....	40
1 2J2788 Blade Tilt Control Linkage Group.....	39
1 2J3607 Bulldozer Ripper Hand Control Group.....	40
2 3J1160 External Valve Group.....	16
1 3J2218 Bulldozer Lines Group.....	34
— or —	
1 4J8116 Bulldozer Lines Group.....	Between 34 & 35
1 3J5980 Blade Tilt Hose Group.....	27
1 4J7234 Blade Tilt and Pin Puller Lines Group.....	Between 32 & 33