

PARTS MANUAL

**H170FT, H175FT36, F190FT
(A299)**

CUSTOMER EDITION

HYSTER

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1

FRAME

SEAT PAN AND COVERS**KEY:****A: With Cab****B: Without Cab**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1660750	Insert	4	..
2	a 1649639	Cover (Seat Surround)	1	..
2	b 1649640	Cover (Seat Surround) .....	..	1
2	2098220	Plug	1	1
3	2021395	Cap	1	1
4	1586627	Capscrew	2	2
5	1536813	Handle (Grab)	1	1
6	.....	Spacer	2	2
7	1530243	Insert	2	2
8	1605990	Capscrew	4	4
9	1586431	Nut	4	4
10	1615757	Seal (LH)	1	1
11	1531557	Insert	7	7
12	1597959	Seal	2	2
13	1608654	Capscrew	3	5
14	1646593	Cover	1	..
14	1647413	Cover .....	..	1
15	1608413	Striker Bolt	1	1
16	199563	Capscrew	2	2
17	1608414	Latch	1	1
18	191534	Nut	1	1
19	15127	Washer	2	2
20	1615758	Seal (RH)	1	1
21	1561015	Grommet	2	2
21	4031944	Grommet (Alternate Part)	2	2
22	c 1585592	Plug	2	2
22	d 1585592	Plug	1	1
23	1583611	Capscrew	20	20
24	1650191	Seat Pan	1	1
24	1597229	Seat Pan	1	1
24	364868	Nut	3	3

FOOTNOTES:**a** With Cab**b** With Overhead Guard**c** With Swivel Seat**d** Without Swivel Seat

COMPARTMENT PLATFORM

ITEM	PART NO.	DESCRIPTION	QTY
1	1708799	Operator Module	1
2	300937	Nut	2
3	296423	Washer	4
4	300939	Washer	4
5	1660337	Isolator	4
6	2037998	Stud	2
7	293657	Capscrew	2
	264134	Loctite	AR

CAB
ATTACHING PARTS – SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	1673586	Cab	1
1	.....	Cab Frame	1
2	1656012	Headliner	1
3	1474710	Insert	5
4	1647423	Coat Hook	1
5	1656013	Gas Spring	2
5	4037111	Gas Spring (Alternate Part)	2
6	1393511	Grommet	3
7	1474952	Hinge	2
8	1656010	Bolt	2
9	1678405	Striker	2
10	296419	Washer	12
11	1647439	Seal (Front Cowl)	1
12	1647440	Wire Harness (Cab)	1
13	1491466	Fastener	2
14	1491220	Screw	2
15	1393528	Dome Light	1
16	1393527	Bulb	1
17	1474953	Hinge	2
	a 4037113	Ball Stud (For Gas Spring)	2

FOOTNOTES:**a** Not Illustrated

HEATER

ITEM	PART NO.	DESCRIPTION	QTY
	1629280	Heater	1
1	1661971	Heater (Blower)	1
2	1661972	Heater (Coil)	1
3	1661973	Adapter (2.0 inch)	1
4	1661974	Adapter (2.5 inch)	1
5	1661975	Adapter (3.5 inch)	1
6	1661976	Heater (Blower Plate)	1
7	.....	Casing	1
8	1661978	Cover	1
9	1661979	Bracket	1
10	1661980	Cover	1
11	1661981	Bracket	1
12	1661982	Bracket	1
13	1661983	Flange	1
14	1661984	Flange	1
15	1661985	Flange	1
16	1661986	Wire Harness	1
17	1661987	Valve	1
18	1661988	Filter	1
19	1487954 4057160	Hose-Bulk (M)	1
20	1661989	Clamp	1
21	1661990	Gasket	1
22	220289	Screw	4
23	1662007	Screw	15
24	1662008	Screw	6
25	221420	Capscrew	9
26	187727	Rivet	2
27	15049	Nut	4
28	1661991	Screw (Plastic)	2
29	227096	Screw	6

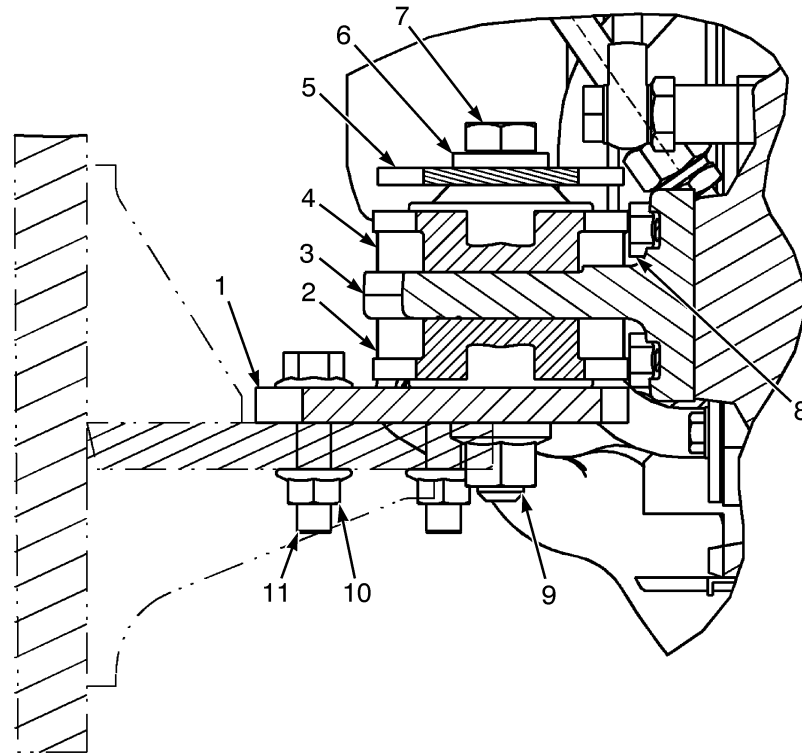
FULL SUSPENSION SEAT
ELECTRO-HYDRAULIC – SWIVEL AND NON-SWIVEL (S/N A299H01535H →)

ITEM	PART NO.	DESCRIPTION	QTY
	4603382	Seat-Full Suspension (Vinyl) (Non-Swivel)	1
	4603383	Seat-Full Suspension (Cloth) (Non-Swivel)	1
	2101604		
	4603384	Seat-Full Suspension (Vinyl) (Swivel)	1
	2101605		
	4603385	Seat-Full Suspension (Cloth) (Swivel)	1
1	1703900	Kit-Cushion (Seat and Back, Cloth)	1
1	1703903	Kit-Cushion (Seat and Back, Vinyl)	1
2	1703901	Kit-Cushion (Back Cushion, Vinyl)	1
2	1703898	Kit-Cushion (Back Cushion, Cloth)	1
2	.....	Back Cushion	1
2	.....	Screw	2
3	1703902	Kit-Seat Cushion (Vinyl)	1
3	1703899	Kit-Seat Cushion (Cloth)	1
3	.....	Seat Cushion	1
3	.....	Spring	2
3	.....	Cotter Pin	2
4	1703892	Kit-Weight Adjuster	1
4	.....	Knob	1
4	.....	Bushing	1
4	.....	Washer	1
4	.....	Pin	1
5	1703893	Kit-Service (Front Panel) (Non Swivel)	1
5	.....	Front Panel	1
5	.....	Socket Head Capscrew	2
5	.....	Roll Pin	1
5	1703894	Kit-Service (Front Panel) (With Swivel)	1
5	.....	Front Panel	1
5	.....	Knob	1
5	.....	Socket Head Capscrew	1
5	.....	Roll Pin	2
6	4043082	Kit-Seat Rail	1
6	.....	Locking Rail	1
6	.....	Slave Rail	1
6	.....	Bolt	4
6	.....	Nut	4
7	4013095	Wire Harness	1
7	1563208	Sensor (Operator Presence)	1
8	4009620	Armrest (Left-Hand Side)	1
8	2099952	Armrest (LH) (Alternate Part)	1
9	221353	Locknut	1
10	1581852	Washer	6
11	221536	Capscrew	1
12	1512536	Washer	1
13	18735	Screw	1
14	19901	Roll Pin	1
15	18462	Capscrew	1
16	18471	Capscrew	1
17	4007318	Spacer	1
18	169874	Nut	2

**MINI LEVER MODULE LABELS
HYDRAULIC CONTROL FUNCTIONS**

ITEM	PART NO.	DESCRIPTION	QTY
1	2102640	Label	1

**ENGINE MOUNTING (FIGURE 2-6)
CUMMINS QSB 3.3L DIESEL**



BP090391

ITEM	PART NO.	DESCRIPTION	QTY
	2096896	Engine Assy-Diesel	1
1	1696332	Mounting Plate (LH)	1
1	1696333	Mounting Plate (RH)	1
2	2069951	Isolator	2
3	1663183	Motor Mount	2
4	2069951	Isolator	2
5	1557737	Washer	2
6	1504075	Washer	2
7	293697	Capscrew	2
8	1663739	Bolt	8
9	1565453	Nut (Flange)	2
10	4370949	Nut (Shoulder)	6
11	1665557	Capscrew	6

**OIL PUMP AND FRONT GEAR COVER
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2096896	Engine Assy-Diesel	1
1	1691853	Capscrew	2
2	1691869	Capscrew	2
3	1691830	Capscrew	6
4	1691831	Capscrew	8
5	1691832	Oil Seal	1
6	1691833	Cover	1
7	1691834	Capscrew	2
8	1691853	Capscrew	4
9	1691854		
	1597807	Capscrew (Flange)	1
10	1691856	Spacer	1
11	1691857	Oil Pump	1
12	1691855	Gear	1

**VALVE COVER
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2096896	Engine Assy-Diesel	1
1	1692035	Locknut	3
2	1692036	Washer	3
3	1692037	Gasket	3
4	1692038	Cover	1
5	1692040		
	4061624	Gasket	1
6	.....	Rivet	4
7	.....	Cover Plate	1
8	.....	Tube	1
9	1691858	Cap	1

**TURBOCHARGER
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2096896	Engine Assy-Diesel	1
1	1691986	Stud	4
2	1691987	Nut	4
3	1691988	Gasket	1
4	1691989	Connector	1
5	1691990	Gasket	1
6	. . . . .	Turbocharger	1
7	1691806	Clamp	1
8	1691822	Seal	1
9	1691823	Pipe	1
10	1513191	Fitting	1
	1692003	Kit-Turbocharger and Gasket	1

**WATER PUMP AND PULLEY
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2096896	Engine Assy-Diesel	1
1	1691840	Capscrew	4
2	1692048	Seal	1
3	1692049	Gasket	1
4	1692050	Plug	2
5	1692051	Plug	1
6	1705950	Water Pump	1
6	1692058	Body	1
7	1692057	Capscrew	7
8	.....	Gasket	1
9	.....	Cover Plate	1
10	1692053	Boss	1
11	1692054	Impeller	1
12	1692055		
	4041627	Shaft	1
13	1692056		
	4046394		
	1692056	Seal	1
14	1691647	Water Pump Pulley	1
	1692061	V-Belt (Not illustrated)	1
	a 1693607	Kit-Repair Water Pump	1

FOOTNOTES:

- a** Water pump part 1692052 is an optional water pump that could be included in this kit.

**COOLING SYSTEM
GM 5.7L LPG**

ITEM	PART NO.	DESCRIPTION	QTY
1	a 2066322	Radiator (Assembly)	1
1	a 1623821	Radiator	1
1	a 1623819	Oil Cooler	1
1	c 4603551	Radiator (Assembly)	1
1	c 4038256	Radiator	1
1	c 4038262	Oil Cooler	1
1	c 4038264	Drain Valve	1
1	c 4038265	Nut , Foldover	2
1	c 4038266	Bolt	8
1	c 4038267	Bolt	4
2	1597795		
	1569080	Screw	4
3	320154	Washer	2
4	1535257	Nut	2
5	302023	Screw	2
6	1531404	Sensor (Low Coolant Level)	1
6	246108	Sealant	AR
7	1600414	Shroud	1
8	119236	Clamp	3
9	2096559		
	4626267	Hose	1
10	4604127	Hose	1
11	369804	Clamp	1
12	1384699	Clamp	1
13	4011212	Baffle	1
14	1527880	Capscrew	2
15	1480237	Nut	2
16	1551663	Clip	2
17	b 4011211	Baffle	1
17	d 4045490	Baffle	1
18	85777	Hose	1
19	1569616	Hose Clamp	1
20	1643342	Reservoir	1
21	1684273	Cap	1
22	1567674	Hose	1
23	369815	Clamp	2
24	4008947	Seal	2
25	4015802	Seal	2
26	4012590	Baffle	1
27	178899	Radiator Cap	1
28	4012589	Baffle	1

FOOTNOTES:**a** → 9/2011**b** → S/N A299E01645K**c** 9/2011 →**d** S/N A299E01646K →

**CYLINDER BLOCK
GM 5.7L LPG**

ITEM	PART NO.	DESCRIPTION	QTY
	4604273	Engine Assy-LPG	1
1	1390761	Kit-Piston Ring	8
1	1390765	Kit-Piston Ring (0.020 O/S)	8
2	1390759	Kit-Piston with Pin (Standard)	8
2	1390760	Kit-Piston with Pin (0.020 O/S)	8
2	1627183	Kit-Piston with Pin (0.005 in O/S)	8
3	324052	Piston Rod	8
4	289344	Bolt	16
5	4018183	Bearing	8
6	1330450	Nut	16
7	1374313	Plug	1
8	.....	Engine Block	1
9	1335499	Pin	4
10	1634927	Dipstick Tube	1
11	4018189	Stud	AR
12	1635634	Dipstick	1
13	1450556	Seal	1
14	388313	Nut	1
15	375575	Bolt	2
16	388364	Stud	2
17	4018188	Housing	1
18	4018182	Plug	5
19	1500884	Gasket	1
20	388364	Stud	1
21	159971	Plug	8
22	375571	Pin	1
23	4018191	Crankshaft	1
24	1390771	Kit-Crankshaft Bearing	5
25	7882	Woodruff Key	2
26	1358895	Sprocket	1
27	4018202	Seal	1
28	263842	Bolt	10
29	1358026	Plug	4

FUEL SYSTEM
GM 5.7L LPG – SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	4019093	LPG Converter	1
1	1540643	Capscrew	2
1	4051285	Kit-Repair LPG Converter	1
2	4019096	Plug	1
3	293774	Capscrew	8
4	15127	Washer	4
5	4019095	Fitting	1
6	4019098	Plate	1
7	1382472		
	1502543	Nut (Flange)	4
8	4019100	Isolator	4
9	4019097	Bracket	1
10	1307884		
	1514429	Nut	2
11	4019045		
	1559567	Sensor (Temperature manifold absolute pressure)	1
11	1527876	Capscrew	1
12	1527879	Capscrew	2
13	.....	Fitting	1
14	4019090	Clamp	2
15	4023531	Hose	AR
16	4019094	Fitting	1
17	4019091	Elbow	1
18	4019099	Clamp	2
19	4019089	Hose-Bulk (FT)	AR
20	292672	Capscrew	4
21	4019119	Regulator	1
21	4019118	Fitting	1
22	1565407	Nut	4
23	4019121	Stud	4
24	4019117	Carburetor	1
24	4051286	Kit-Repair	1
25	4019120	Plug	1
26	4019084	Fitting	1
27	4019105	Adapter	1
28	4019106	O-Ring	1
29	4019107	Spacer	1
30	296003	Screw	4
31	4019103	Throttle Body	1
32	4019108	Adapter	1
33	191534	Nut	2
34	4019104	Stud	2
35	4019109	Gasket	1
36	18509	Capscrew	2
37	18515	Washer	2
38	15155	Lockwasher	2
39	4019019	Fitting	1
40	4019020	Valve	1
41	4019018	Fitting	1
42	4019088	Fitting	2

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS
MONOTROL (S/N A299V01703K →)

ITEM	PART NO.	DESCRIPTION	QTY
	4051938	Pedal Assy (Monotrol)	1
1	2074702	Pedal	1
2	1340470	Pad	1
3	2072782 4634485	Wire Harness	1
4	.....	Connector Assembly (To Cowl Harness)	1
4	1489655	Connector (4 Way)	1
4	1330416	Connector	1
4	1531312	Terminal	4
5	.....	Switch (Reverse)	1
6	.....	Switch (Forward)	1
7	220428	Screw	4
8	53162	Lockwasher	4
9	16865	Nut	4
10	325699	Spring	2
11	4040523	Washer (Bonded)	2
12	15931	Lockwasher	2
13	16708	Screw	2
14	1500912	Clip	1
15	1582464	Fastener	1
16	360387	Loctite	AR
17	302437	Roll Pin	1
18	4031769	Isolator (Throttle Pedal)	1
19	2063842	Sensor (Hall Throttle Position) (To Cowl Harness)	1
20	296378	Washer	2
21	1564752	Capscrew	2
22	4051924	Base Assembly (Throttle)	1
22	4615964	Molding	1
23	1524267	Bushing	1
24	1654754	Shaft	1
25	1530971	E-Ring	1
26	1654156	Shim	AR
27	1527879	Capscrew	3
28	1530311	Screw (Stop)	1
29	329069	Nut	1
30	251099	Loctite	AR
31	1582301	Spring (Inner)	1
32	1582300	Spring (Outer)	1

**ELECTRICAL ARRANGEMENT
GM 5.7L LPG**

ITEM	PART NO.	DESCRIPTION	QTY
1	.....	RH Chassis (☞Figure 5-4).....	1
2	1529257	Sensor (Air Flow Restriction)	1
3	4608715	Wire Harness (Rear) (☞Figure 5-34).....	1
4	1582464	Fastener	2
5	1500912	Clip	1
6	1646456	Sensor (Oxygen)	2
7	4019049	Wire Harness (Engine)	1
8	1509888	Clip	2
9	1569465	Clamp (Swivel)	2
10	1542439	Clamp (Swivel)	1
11	1502055	Clamp (Swivel)	3
12	1502059	Clamp (Swivel)	1
13	1558228	Clip	1
14	1532774	Clip	1
15	1382472 1502543	Nut (Flange)	1
16	1527879	Capscrew	1
17	1501970	Pressure Switch (Low Fuel)	1
18	4602843	Wire Harness (Adapter)	1
19	.....	Battery Cables (☞Figure 5-11).....	1

**ALTERNATOR AND MOUNTING
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2096896	Engine Assy-Diesel	1
1	1691634		
	4023567	Capscrew	1
2	1691632	Capscrew	2
3	1691633		
	4023568	Capscrew	1
4	1691634	Capscrew	1
5	1691635	Spacer	1
6	1691641	Support	1
7	.....	Washer	2
8	1691638	Nut	1
9	1691639	Washer	2
10	1637812	Retainer	1
11	1691636	Spacer	1
12	1691640	Pulley	1
13	1691642	Bracket	1
13	.....	Bushing	1
14	1691637	Plate (Pivot)	1
15	4007486	Alternator (Without Pulley)	1

**ELECTRONIC CONTROL MODULE AND SENSORS
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2096896	Engine Assy-Diesel	1
1	1691869	Capscrew	2
2	1691870	Capscrew	1
3	1517120	Data Plate	1
4	1691871	Capscrew	1
5	1543439	Switch, Oil Pressure	1
6	1543435	O-Ring	2
7	1565040		
	1691873	Sensor Assembly (Temperature)	1
8	1644129	Sensor (Crankshaft Speed and Position)	1
9	1644128	O-Ring	2
10	1644131	Cam Position Sensor	1
11	1691861	Electronic Control Module	1
12	1691868	Support	1
13	1691877	Sensor (Ambient Air Pressure)	1
14	1691878	Sensor (Temperature) (Intake Manifold Temperature)	1
15	1691879	Capscrew	1
16	1691880	Washer	1
	a 2106332	Label (ECM Code) (Standard Transmission Only)	1

FOOTNOTES:**a** Not Illustrated

MINI-LEVER CONTROLS

WITH ARMREST – THREE FUNCTION (S/N A299V01534H →)

KEY:**A: Without Directional Control Switch****B: With Directional Control Switch**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4601093	Mini-Lever Assembly	1	..
1	c 4601265	Mini-Lever Assembly	1	..
1	a 4601097	Mini-Lever Assembly	1	..
1	b 4601099	Mini-Lever Assembly	1	..
1	4601101	Mini-Lever Assembly .....	..	1
1	c 4601103	Mini-Lever Assembly .....	..	1
1	a 4601105	Mini-Lever Assembly .....	..	1
1	b 4601107	Mini-Lever Assembly .....	..	1
2	.....	Lever Position 1	1	1
2	2110791	Lever (Single Function)	1	1
3	.....	Lever Position 2	1	1
3	2110791	Lever (Single Function)	1	1
3	a 2110793	Lever (With Override)	1	1
4	.....	Lever Position 3	1	1
4	2110791	Lever (Single Function)	1	1
4	c 2110792	Lever (Clamping)	1	1
5	2108249	Plug	1	1
6	2111799	Armrest (Without Push Buttons)	1	1
6	ac 4603439	Armrest (With Push Buttons)	1	1
7	2111769	Cushion (Armrest)	1	1
8	1709587	Nut	5	5
9	1698449	Capscrew	6	6
10	4605336	Wire Harness	1	1
11	c 1704528	Push Button (Position 3)	1	1
11	b 1704528	Push Button (Position 2 and 3)	2	2
11	a 1704528	Push Button (Position 2)	1	1
12	c 1705359	Cover (Push Button)	1	1
12	b 1705359	Cover (Push Button)	1	1
13	1704529	Wire Harness (Forward/Reverse Switch in the MLM) (Push Buttons)	1	1
14	2111802			
	4605337	Printed Circuit Board	1	1
15	2111800	Cover (Bottom Armrest)	1	1
16	4601120	Plug	1	1
17	2111770	Horn Button	1	1
18	2110943	Switch (Directional Control) .....	..	1
19	2110942	Plug (Directional Control Switch)	1	..
20	1698449	Capscrew	8	8

FOOTNOTES:**a** Return to Set Tilt**c** With Clamping**b** Three Function Clamp with Return to Set Tilt

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WIRE HARNESS
ENGINE – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
1	1700243	Wire Harness (Engine)	1

WIRE HARNESS
RIGHT HAND CHASSIS – CUMMINS QSB 3.3L DIESEL (S/N A299V01573H →)

ITEM	PART NO.	DESCRIPTION	QTY
	4607742	Wire Harness (RH Chassis)	1
1	.....	Connector Assembly (Vehicle System Manager)	1
1	1525563	Connector	1
1	1500913	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	8
1	1363886	Terminal (Socket)	4
2	.....	Connector Assembly (To Cowl Harness)	1
2	1489655	Connector (4 Way)	1
2	1330416	Connector	1
2	1330437	Terminal (Pin)	4
3	.....	Connector Assembly (To Cowl Harness)	1
3	1493428	Connector (12-Way)	1
3	1500913	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	10
3	1484377	Plug	2
4	.....	Connector Assembly (Vehicle System Manager)	1
4	1525567	Connector	1
4	1529046	Connector (Secondary Lock)	1
4	1463139	Terminal	3
4	1484377	Plug	9
5	.....	Connector Assembly (Vehicle System Manager)	1
5	1525569	Connector	1
5	1529046	Connector (Secondary Lock)	1
5	1463139	Terminal	3
5	1484377	Plug	9
6	275496	Conduit	AR
7	275497	Conduit	AR
8	1540388	Conduit	AR
9	1534282	Clip	4
10	.....	Connector Assembly (Contactor Ground)	1
10	1402849	Connector Body	1
10	.....	Connector Assembly (Contactor Signal)	1
10	1402849	Connector Body	1
11	.....	Connector Assembly (Hydraulic Solenoid)	1
11	1490242	Connector (2 Way)	1
11	1490243	Connector	1
11	1330438	Terminal (Socket)	2
12	275493	Conduit	1
13	.....	Connector Assembly (Accessory 2)	1
13	1514602	Connector	1
13	1514603	Connector (Secondary Lock)	1
13	1330439	Plug	1
13	1554359	Terminal	3
14	.....	Connector Assembly (Endcap)	1
14	1514597	Connector	1
14	1330439	Plug	6
15	275495	Conduit	AR
16	1620149	Clip	2
17	.....	Connector Assembly (Engine Control Module)	1
17	1664870	Connector	1

WIRE HARNESS (COWL)
WITH MONOTROL – WITH RETURN TO SET TILT AND MODULATED BRAKES

ITEM	PART NO.	DESCRIPTION	QTY
	2108202	Wire Harness (Cowl)	1
	4604371	Wire Harness (Cowl) (Alternate Part)	1
1	.....	Connector Assembly (To Right Hand Chassis Harness)	1
1	1489656	Connector (4-Way)	1
1	1489657	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	4
2	.....	Connector Assembly (Vehicle Systems Manager)	1
2	1525568	Connector	1
2	1529046	Connector (Secondary Lock)	1
2	1463139	Terminal	11
2	1484377	Plug	1
3	1540388	Conduit	AR
4	1534282	Clip	1
5	275496	Conduit	AR
6	1534828	Clip	1
7	.....	Connector Assembly (To Monotrol Pedal)	1
7	1489656	Connector (4-Way)	1
7	1489657	Connector (Secondary Lock)	1
7	1330438	Terminal (Socket)	4
8	.....	Connector Assembly (Endcap)	1
8	1525573	Connector	1
9	275495	Conduit	AR
10	.....	Connector Assembly (Accelerator Pedal Sensor)	1
10	1525584	Connector	1
10	1532571	Terminal	6
11	1509890	Clip	4
12	.....	Connector Assembly (Accumulator Pressure)	1
12	1402849	Connector Body	2
13	.....	Connector Assembly (Brake Pressure)	1
13	1603021	Connector	1
13	1603236	Connector (Secondary Lock)	1
13	1548517	Terminal (Socket)	3
13	1548519	Seal	3
14	275493	Conduit	AR
15	.....	Connector Assembly (To Mast Harness)	1
15	1484397	Connector (3-Way)	1
15	1463194	Connector (Secondary Lock)	1
15	1330438	Terminal (Socket)	3
16	.....	Connector Assembly (Endcap)	1
16	1351682	Connector (End Cap)	1
17	.....	Connector Assembly (Park Brake)	1
17	1484397	Connector (3-Way)	1
17	1463194	Connector (Secondary Lock)	1
17	1330438	Terminal (Socket)	3
17	1700460	Connector (Alternate Part)	1
17	1700461	Terminal (Alternate Part)	3
18	.....	Connector Assembly (Brake Pedal)	1
18	1484397	Connector (3-Way)	1
18	1463194	Connector (Secondary Lock)	1
18	1330438	Terminal (Socket)	3

**WIRE HARNESS
TRANSMISSION – THREE SPEED**

ITEM	PART NO.	DESCRIPTION	QTY
	2106248	Wire Harness (Transmission, Three Speed)	1
1	.....	Connector Assembly (Sump Temperature)	1
1	1493435	Connector (2-Way)	1
1	1402814	Terminal	2
1	1562649	Seal	2
2	275493	Conduit	AR
3	.....	Connector Assembly (Intermediate Speed)	1
3	1484397	Connector (3-Way)	1
3	1463194	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	3
4	275496	Conduit	AR
5	.....	Connector Assembly (To Right Hand Chassis Harness)	1
5	1623280	Connector	1
5	1623281	Connector (Secondary Lock)	1
5	1484377	Plug	6
5	1463138	Terminal Pin	6
6	.....	Connector Assembly (Turbine Shaft RPM)	1
6	1493430	Connector (6 Way Housing)	1
6	1529052	Connector	1
6	1330438	Terminal (Socket)	5
6	1484377	Plug	1
7	275495	Conduit	AR
8	275497	Conduit	AR
9	.....	Connector Assembly (Bus Bar)	1
9	1525564	Connector	1
9	1500913	Connector (Secondary Lock)	1
9	1330438	Terminal (Socket)	12
10	.....	Connector Assembly (Bus Bar)	1
10	1602430	Connector	1
11	.....	Connector Assembly (APC214-CRP129)	1
11	1602432	Connector	1
11	1323581	Plug	10
11	1532571	Terminal	20
12	.....	Connector Assembly (APC-CRP129)	1
12	1602433	Connector	1
12	1323581	Plug	4
12	1532571	Terminal	14
13	1540388	Conduit	AR
14	1608857	Clip	1
15	275493	Conduit	AR
16	.....	Connector Assembly (Forward One Solenoid)	1
16	1490242	Connector (2 Way)	1
16	1490243	Connector	1
16	1330438	Terminal (Socket)	2
17	.....	Connector Assembly (Range Two Solenoid)	1
17	1490242	Connector (2 Way)	1
17	1490243	Connector	1
17	1330438	Terminal (Socket)	2
18	.....	Connector Assembly (Forward Two Solenoid)	1
18	1490242	Connector (2 Way)	1

TRANSMISSION MOUNT

ITEM	PART NO.	DESCRIPTION	QTY
1	287854	Capscrew	1
2	388049		
	292682	Lockwasher	1
3	1591721	Washer	1
4	1591719	Crossmember	1
5	1591717	Housing (Bushing)	1
6	296426	Washer	6
7	293688	Capscrew	2
8	293686	Capscrew	8
9	1617487	Bracket (Isolator)	1
10	1591720	Pin	1
11	a 1699926	Transmission Assy (Three Speed) (☞Figure 6-4, ☞Figure 6-5).....	1
11	b 4010141	Transmission Assy (Three Speed) (☞Figure 6-4, ☞Figure 6-5).....	1
12	1591716	Bushing	1
13	296427	Washer	4
14	1565453	Nut (Flange)	2

FOOTNOTES:**a** → S/N A299V01518G**b** S/N A299V01519G →

**FORWARD CLUTCH LOW AND SECOND SHAFT
THREE SPEED TRANSMISSION – FWD1, RANGE2**

ITEM	PART NO.	DESCRIPTION	QTY
1	1707745	Shaft (RANGE2)	1
2	1655546	Clutch Piston	2
3	1655547	Seal	1
4	1311811	Piston Seal	1
5	1655548	Friction Disk (Inner, High Density)	17
6	1556965	Separator Plate (Outer)	6
7	1655552	Plate	2
8	1311810	Snap Ring	2
9	1655558	Spacer	1
10	1655557	Disk Spring	1
11	1655561	Snap Ring	2
12	1655562	Bearing	1
13	1655596	Shaft (Forward)	1
14	1655597	Bearing	1
15	1556985	Piston Ring	1
16	1655598	Shim	AR
16	1655599	Shim	AR
16	1655600	Shim	AR
16	1707749	Shim	AR
17	1655549	Separator Plate (Outer)	11
18	1655553		
	1707746	Sealing Ring	1
19	1655555	Retainer	1
20	1655554	Spring	1
21	1655606	Retainer	1
22	1707750	Retaining Ring	1
23	330590	Bearing	1
24	1707748	Spacer	1
25	1707747	Clutch Gear	1
26	1389220	Bearing	1
27	1655550	Bearing	1
28	1556985	Piston Ring	3
	1709808	Kit-Gasket	1

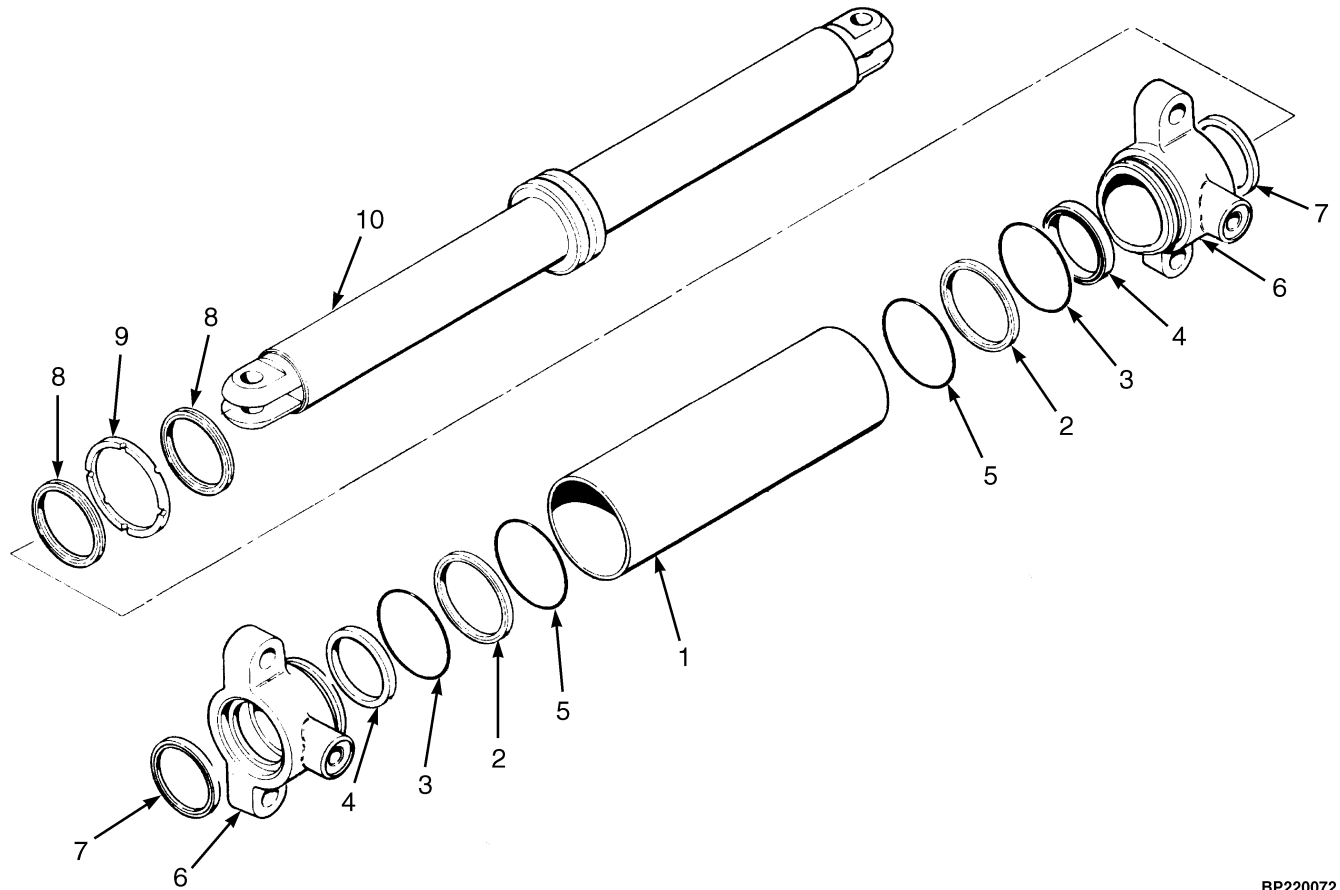
PUMP DRIVE

ITEM	PART NO.	DESCRIPTION	QTY
1	1684268	Drive Gear	1
2	1655542	Capscrew	1
3	1624602	Lockwasher	1
4	1655541	Support	1
5	1655543	Pin	1
6	1707743	Ball Bearing	1
7	1311803	Retaining Ring	1
8	1655536	Screw	1
9	1655537	Lockwasher	1
10	1655535	Support	1
11	1655534	Pin	1
12	1612711	Snap Ring	1
13	1612710	Bearing	1
14	1684266	Idler Gear (Pump Drive)	1

DIFFERENTIAL

ITEM	PART NO.	DESCRIPTION	QTY
	2089938	Drive Axle (16.9 Overall Ratio)	1
	1703567	Differential	1
1	1703563	Differential Carrier	1
2	1644251	Washer	2
3	1703564	Gear	2
4	1703566	Friction Disk	4
5	1644255	Pinion	4
6	1703565	Shaft	2
7	1644257	Bolt	15
8	1623672	Bolt	2
9	1644246	Nut	2
10	1644247	Seal	2
11	1612530	Snap Ring	2
12	1644245	O-Ring	2
13	1644248	Bearing	2
14	1644249	Bolt	16
15	1703562	Gear Set	1
16	1644243	Bearing	1
17	1657852	Kit-Shim	1
18	1644238	Shim (0.1 mm)	1
18	1644239	Shim (0.2 mm)	1
18	1644240	Shim (0.5 mm)	1
18	1644241	Shim (0.15 mm)	1
19	1644237	Spacer	1
20	1623573	Bearing	1
21	1644236	Seal	1
22	1644235	Cover Plate	1
23	1644233	Flange	1
24	1644234	O-Ring	1
25	1644232	Nut	1

STEER CYLINDER (FIGURE 8-6)



BP220072

ITEM	PART NO.	DESCRIPTION	QTY
	2108963	Steering Cylinder	1
1	344391	Tube Wldmt-Cylinder	1
2	154358	Back-Up Ring	2
3	39679	O-Ring	2
4	1380092	Rod Seal	2
5	15880	O-Ring	2
6	1594137	End Cap	2
7	2071094	Rod Wiper	2
8	1611065	Wear Ring	2
9	2046765	Seal	2
10	1683373	Cylinder Rod	1
	1708573	Kit-Seal	1

BRAKE PEDAL MOUNTING

ITEM	PART NO.	DESCRIPTION	QTY
1	1705097	Bracket	1
2	1527879	Capscrew	6
3	1585575	Bushing	2
4	1594950 4053949	Plate	1
5	1530311	Screw (Stop)	1
6	329069	Nut	1
7	.....	Brake Pedal (☞ Figure 9-1, ☞ Figure 9-2).....	1
8	.....	Brake Valve (☞ Figure 9-5).....	1
9	1530243	Insert	2
10	1586627	Capscrew	2
11	1691573	Bracket	1
11	1688503	Mount (Alternate Part)	1
12	302398	Locknut	2
13	1553897	Capscrew	2
13	1701768	Screw (Alternate Part)	2
14	1582442	Clip	1
15	1547849	Sensor (Brake Position)	1
15	1547849	Sensor (Brake Position) (Alternate Part)	1
	a 1510113	Capscrew	1

FOOTNOTES:**a** Not Illustrated

**BRAKE COOLING SYSTEM
SINGLE AND DUAL PEDAL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1487059	Fitting	1
2	a 2111658	Hose Assy	1
2	b 4604225	Hose Assy	1
3	1502053	Clamp (Swivel)	1
4	1543691	Clamp (Swivel)	1
5	1486770	Fitting	1
6	1649689	Bracket	1
7	296022	Capscrew	2
8	1522424	Fitting	1
9	a 2105552	Tube Assy	1
9	b 4604294	Tube Assy	1
10	1487059	Fitting	2
11	2105554	Tube Assy	1
12	1487063	Fitting	3
13	2093942	Hose	1
14	1502009	Hose Clamp	6
15	17758	Fitting	4
15	16486	O-Ring	1
16	2108745	Manifold	1
16	1616054	Check Valve	1
17	2091513	Block	1
18	1516202	Fitting	1
19	2093939	Hose Assy	1
20	1486772	Fitting	1
21	1473887	Fitting	1
22	222502	Fitting	1
22	16484	O-Ring	1
23	1502006	Hose Clamp	4
24	1480237	Nut	1
25	325897	Clamp	1
26	1527879	Capscrew	1
27	1486839	Hose Assy	1
28	1502066	Clamp (Swivel)	1
29	1502059	Clamp (Swivel)	1
30	1502005	Hose Clamp	2
31	a 1502053	Clamp (Swivel)	1
31	b 1502053	Clamp (Swivel)	2
32	a 1543691	Clamp (Swivel)	1
32	b 1543691	Clamp (Swivel)	2
33	1399248	Fitting	1
34	250576	Hose	1
35	110178	Fitting	1
35	16483	O-Ring	1
36	2078520	Hose	1
37	1654374	Fitting	1
38	154452	Fitting	1
39	63108	Fitting	1
40	1316809	Fitting	1
41	1625338	Hose Clamp	2
42	1542439	Clamp (Swivel)	3

**VALVE ASSEMBLY, LIFT AND LOWER
ELECTRONIC CONTROL VALVE – THREE AND FOUR FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1707440	Valve Section	1
2	1578712	Plug Assembly	1
2	204128	Plug	1
3	1581862	Kit-Valve (Manual Lowering)	1
4	1569602	Plug	1
5	1578904	Kit-Seal (Inlet)	1
6	1578911	Kit-Seal (Steering Control Unit Interface)	1
7	1578875	Shuttle Valve	1
8	1578888	Setscrew	1
9	1586279	Kit-Seal (Electro Hydraulic Poppet Valve)	1
10	1586280	Poppet	1
11	1578876	Spring	1
12	1578714	Plug Assembly	1
13	1707442	Relief Valve (Primary)	1
14	1580132	Kit-Relief Valve	1
15	1707441	Spring	1
	b 1578909	Kit-Seal (Master 3 Function)	1
	a 1578908	Kit-Seal (Master 4 Function)	1

FOOTNOTES:**a** Four Function Only**b** Three Function Only

**OUTLET SECTION
THREE AND FOUR FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1629199	Outlet Section	1
2	1580131	Kit-Seal and Spring	1
3	1578707	Relief Valve (Secondary) (2250 PSI)	1
4	15055	Nut	4
	1578715	Kit-Tie Rod (Three Function)	1
	1580151	Kit-Tie Rod (Four Function)	1

DIPSTICK AND BREATHER

ITEM	PART NO.	DESCRIPTION	QTY
1	4606309	Dipstick	1
2	4606308	Dipstick (Tube)	1
2	4615499	Dipstick Tube (Alternate)	1
3	279737	Grommet	1
4	4017662	Bracket	1
4	4040075	Bracket (Alternate)	1
5	1382472		
	1502543	Nut (Flange)	2
5	1460477	Nut (Alternate)	2
6	1510113	Capscrew	2
6	1565195	Capscrew (Alternate)	2
7	16745	Fitting	1
7	16484	O-Ring	1
8	222510	Fitting	1
8	16484	O-Ring	1
9	1502008	Hose Clamp	1
10	2098246	Hose	1
11	1510115	Capscrew	2
12	1582160	Adapter (Breather)	1
13	1480237	Nut	2
14	1582161	Breather	1
14	16486	O-Ring	1

**INNER MAST
TWO STAGE LIMITED FREE-LIFT
W/INTEGRAL SIDESHIFT CARRIAGE**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3500 mm (137.8 in.)	4500 mm (177.2 in.)	5500 mm (216.5 in.)
		Mast Group Number	A643 3500	A643 4500	A643 5500
	Mast And Carriage Assy	2107124	2107125	2107126
1	Inner Mast	4006892	4006893	4006894

W/INTEGRAL SIDESHIFT CARRIAGE/FORK POSITIONER

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3500 mm (137.8 in.)	4500 mm (177.2 in.)	5500 mm (216.5 in.)
		Mast Group Number	A643 3500	A643 4500	A643 5500
	Mast And Carriage Assy	2107129	2107130	2107131
1	Inner Mast	4006892	4006893	4006894

W/STANDARD CARRIAGE 1 AUXILIARY HOSE

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3500 mm (137.8 in.)	4500 mm (177.2 in.)	5500 mm (216.5 in.)
		Mast Group Number	A643 3500	A643 4500	A643 5500
	Mast And Carriage Assy	2107134	2107135	2107136
1	Inner Mast	4006892	4006893	4006894

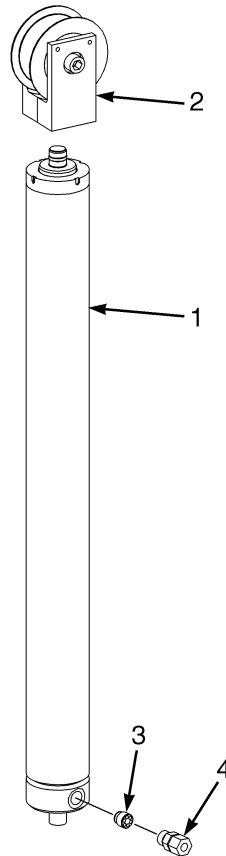
W/STANDARD CARRIAGE 2 AUXILIARY HOSES

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3500 mm (137.8 in.)	4500 mm (177.2 in.)	5500 mm (216.5 in.)
		Mast Group Number	A643 3500	A643 4500	A643 5500
	Mast And Carriage Assy	2107139	4601443	2107140
1	Inner Mast	4006892	4006893	4006894

**HEADER HOSES
TWO STAGE LIMITED FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
1	4000403	Washer	4
2	4000387	Pulley	4
3	4000388	Pin	2
4	1529198	Snap Ring	2
5	4023951	Washer	2
6	4000406	Screw	2
7	1536891	Clamp	4
8	4000351	Clamp	12
9	4023953	Hose	4
10	4000353	Fitting (Cap)	4
11	4023954	Hose	4
12	4023952	Fitting	4
13	1529221	Fitting	4
14	4000407	Hose Clamp	8
15	4023937	Screw	4
16	4000365	Fitting	4

**FREE LIFT CYLINDER (FIGURE 12-5)
THREE STAGE FULL FREE-LIFT**



**FREE LIFT CYLINDER
THREE STAGE FULL FREE-LIFT**

HP290045

WITH INTEGRAL SIDE-SHIFT CARRIAGE

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		4550 mm (179.1 in.)	5900 mm (232.3 in.)
		Mast Group Number	A644 5900
1	Cylinder	4007333	4007335

WITH INTEGRAL SIDE-SHIFT CARRIAGE/FORK POSITIONER

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		4550 mm (179.1 in.)	5900 mm (232.3 in.)
		Mast Group Number	A644 5900
1	Cylinder	4007333	4007335

**AUXILIARY FUNCTION HOSES
THREE STAGE FULL FREE-LIFT****KEY:****A: Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1502809	Hose Clamp	1	2
2	1399243	Clamp	1	2
3	2108066	Hose Assy .....	..	1
4	2108067	Hose Assy .....	..	1
5	2108064	Hose Assy	1	1
6	2108065	Hose Assy	1	1
7	1473887	Fitting	1	2
8	1473897	Fitting	1	2
9	1527879	Capscrew .....	..	1
10	251994	Clamp .....	..	1
11	1480237	Nut .....	..	1

BACK-UP ALARM

ITEM	PART NO.	DESCRIPTION	QTY
1	2064929	Back-Up Alarm (82-102 dbA)	1
2	1582464	Fastener	1
3	1500912	Clip	1
4	1531001	Insert	2
5	1527877	Capscrew	2

SECTION 14 FIELD CONVERSION KITS

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