A TEREX BRAND

Service Manual

Serial Number Range

TZ™-50

from TZ5012-254 to TZ5016J-2899
and from TZ50J-2900

Part No. 824982

Rev B4

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Specifications

Machine Specifications

Batteries, models without drive option	
Type	6V DC
Group	T-105
Quantity	4
Battery capacity	225AH
Reserve capacity @ 25A rate	447 minutes

Batteries, models with drive option	
Type	6V DC
Group	T-145
Quantity	4
Battery capacity	244AH
Reserve capacity @ 25A rate	530 minutes

Fluid capacities	
Hydraulic tank	4.75gallons 18 liters
Hydraulic system (including tank)	8 gallons 30 liters

Tires and wheels - Electric and Hydraulic Axles	
Axle	
Tire size	ST225/75R15
Load range	D
Lug nut torque, dry	80 ft-lbs 108 Nm
Tire pressure, maximum (cold)	65 psi 4.48 bar

Tires and wheels - Mechanical Axle	
Axle	
Tire size	215/70R14 104/102N
Load range	C
Lug bolt torque, dry	192 ft-lbs 260 Nm
Tire pressure, maximum (cold)	66 psi 4.55 bar

Tongue jack - all models	
Tire size	10 x 3 x 0.75

For operational specifications, refer to the Operator's Manual.

Continuous improvement of our products is a Genie policy. Product specifications are subject to change without notice.

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Schematics

Observe and Obey:

- ☑ Troubleshooting and repair procedures shall be completed by a person trained and qualified on the repair of this machine.
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating the machine.

Before Troubleshooting:

- ☑ Read, understand and obey the safety rules and operating instructions in the appropriate Operator's Manual on your machine before attempting any maintenance or repair procedure.
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.

About This Section

There are two groups of schematics in this section.

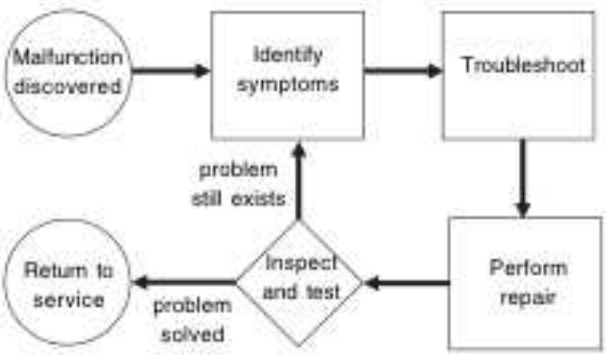
Electrical Schematics

⚠WARNING Electrocution/burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

Hydraulic Schematics

⚠WARNING Bodily injury hazard. Spraying hydraulic oil can penetrate and burn skin. Loosen hydraulic connections very slowly to allow the oil pressure to dissipate gradually. Do not allow oil to squirt or spray.

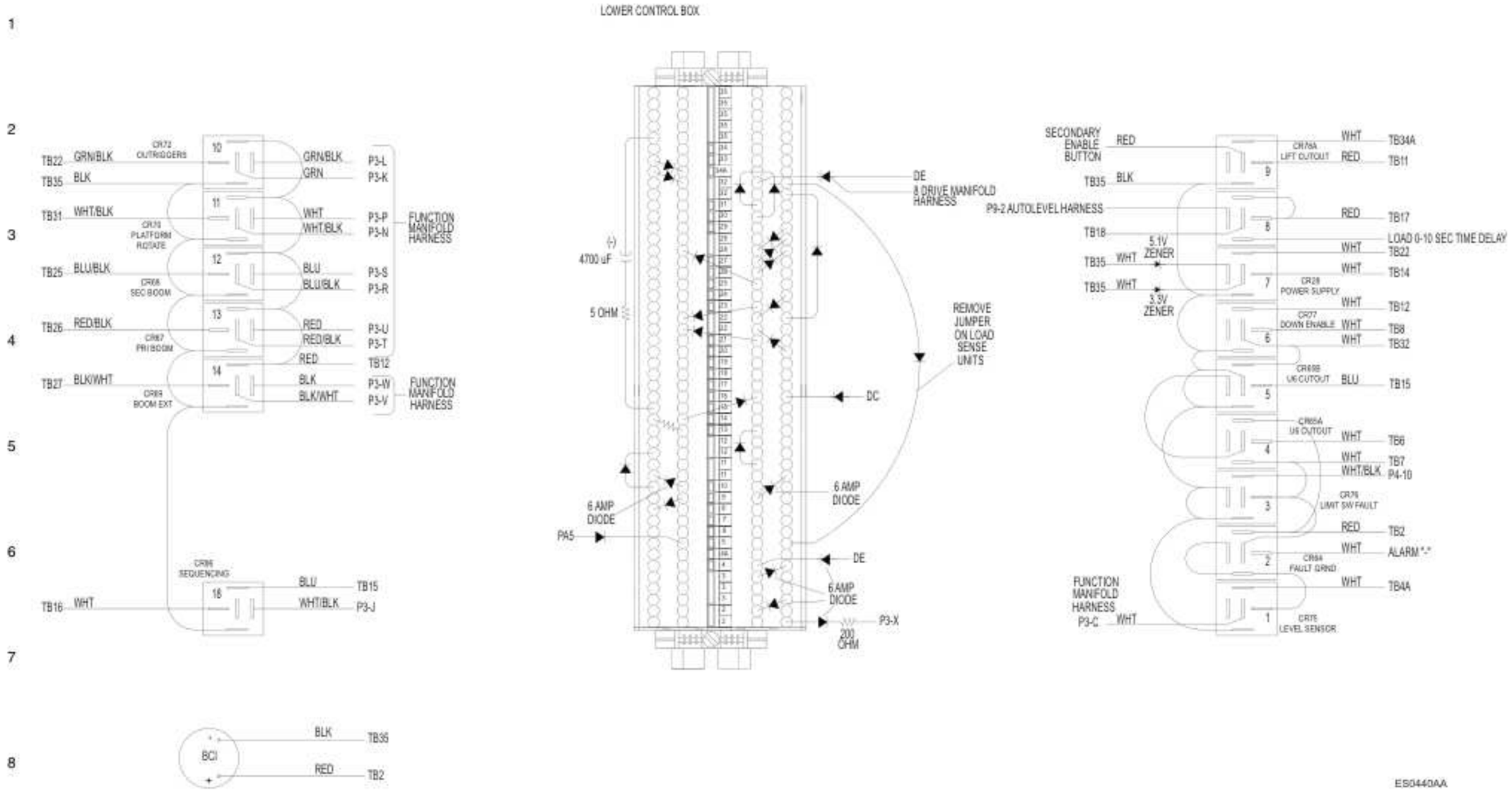
General Repair Process



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Ground Control Box Wiring Diagram

(from Serial Number TZ50J-3023)



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SPECIFICATIONS

SAE FASTENER TORQUE CHART

• This chart is to be used as a guide only unless noted elsewhere in this manual •

SIZE	THREAD	Grade 5				Grade 8				A574 High Strength Black Oxide Bolts	
		LUBED		DRY		LUBED		DRY		LUBED	
		in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm
1/4	20	80	9	100	11.3	110	12.4	140	15.8	130	14.7
	28	90	10.1	120	13.5	120	13.5	160	18	140	15.8
		LUBED		DRY		LUBED		DRY		LUBED	
		ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm
5/16	18	13	17.6	17	23	18	24	25	33.9	21	28.4
	24	14	19	19	25.7	20	27.1	27	36.6	24	32.5
3/8	16	23	31.2	31	42	33	44.7	44	59.6	38	51.5
	24	26	35.2	35	47.4	37	50.1	49	66.4	43	58.3
7/16	14	37	50.1	49	66.4	50	67.8	70	94.7	61	82.7
	20	41	55.5	55	74.5	60	81.3	80	108.4	68	92.1
1/2	13	57	77.3	75	101.6	80	108.4	110	149	93	126
	20	64	86.7	85	115	90	122	120	162	105	142
9/16	12	80	108.4	110	149	120	162	150	203	130	176
	18	90	122	120	162	130	176	170	230	140	189
5/8	11	110	149	150	203	160	217	210	284	180	244
	18	130	176	170	230	180	244	240	325	200	271
3/4	10	200	271	270	366	280	379	380	515	320	433
	16	220	298	300	406	310	420	420	569	350	474
7/8	9	320	433	430	583	450	610	610	827	510	691
	14	350	474	470	637	500	678	670	908	560	759
1	8	480	650	640	867	680	922	910	1233	770	1044
	12	530	718	710	962	750	1016	990	1342	840	1139
1 1/8	7	590	800	790	1071	970	1315	1290	1749	1090	1477
	12	670	908	890	1206	1080	1464	1440	1952	1220	1654
1 1/4	7	840	1138	1120	1518	1360	1844	1820	2467	1530	2074
	12	930	1260	1240	1681	1510	2047	2010	2725	1700	2304
1 1/2	6	1460	1979	1950	2643	2370	3213	3160	4284	2670	3620
	12	1640	2223	2190	2969	2670	3620	3560	4826	3000	4067

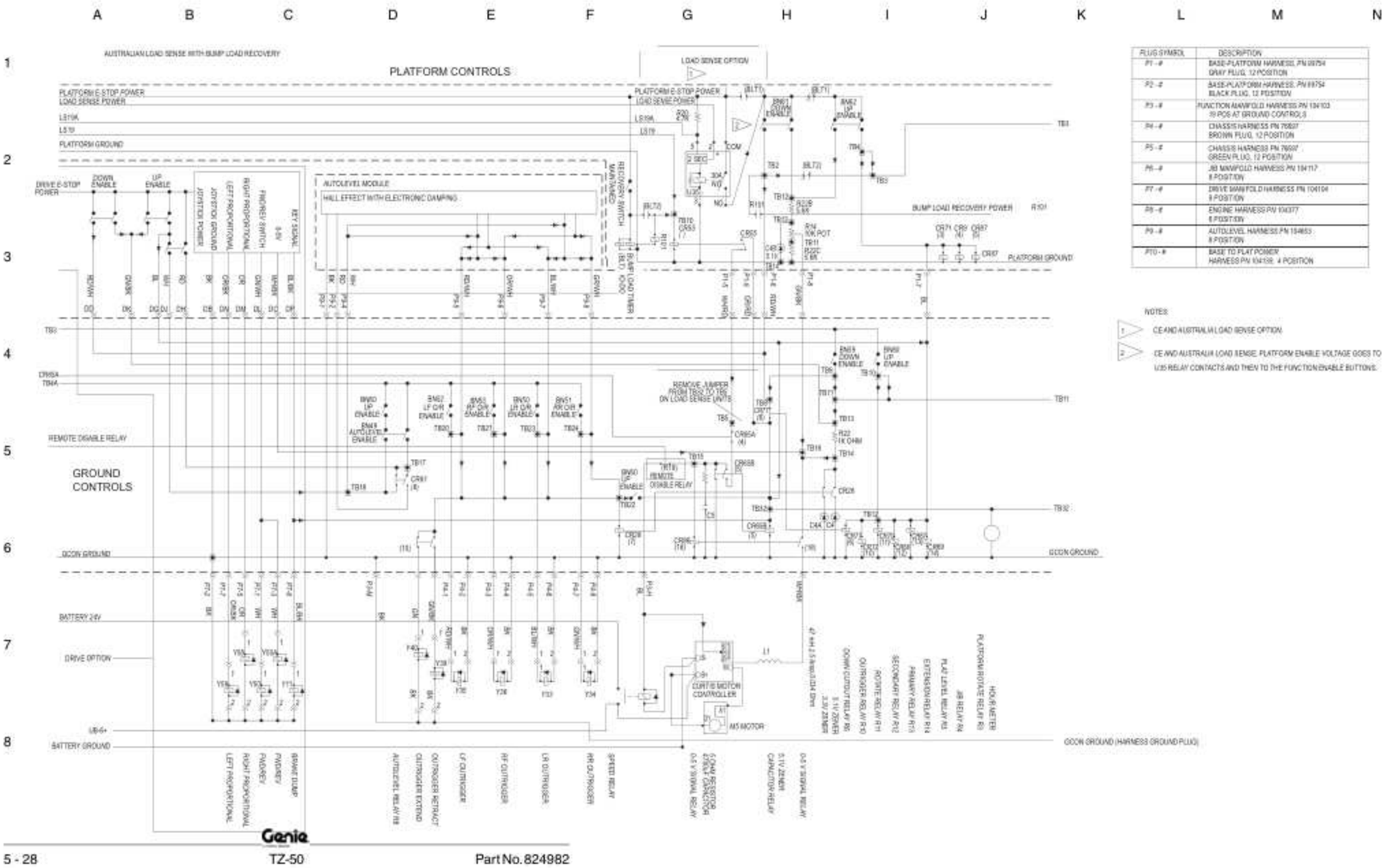
METRIC FASTENER TORQUE CHART

• This chart is to be used as a guide only unless noted elsewhere in this manual •

Size	Class 4.6				Class 8.8				Class 10.9				Class 12.9			
(mm)	LUBED		DRY		LUBED		DRY		LUBED		DRY		LUBED		DRY	
	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm
5	16	1.8	21	2.4	41	4.63	54	6.18	58	6.63	78	8.84	68	7.75	91	10.3
6	19	3.05	36	4.07	69	7.87	93	10.5	100	11.3	132	15	116	13.2	155	17.6
7	45	5.12	60	6.83	116	13.2	155	17.6	167	18.9	223	25.2	1.95	22.1	260	29.4
	LUBED		DRY		LUBED		DRY		LUBED		DRY		LUBED		DRY	
	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm
8	5.4	7.41	7.2	9.88	14	19.1	18.8	25.5	20.1	27.3	26.9	36.5	23.6	32	31.4	42.6
10	10.8	14.7	14.4	19.6	27.9	37.8	37.2	50.5	39.9	54.1	53.2	72.2	46.7	63.3	62.3	84.4
12	18.9	25.6	25.1	34.1	48.6	66	64.9	88	69.7	94.5	92.2	125	81	110	108	147
14	30.1	40.8	40	54.3	77.4	105	103	140	110	150	147	200	129	175	172	234
16	46.9	63.6	62.5	84.8	125	170	166	226	173	235	230	313	202	274	269	365
18	64.5	87.5	86.2	117	171	233	229	311	238	323	317	430	278	377	371	503
20	91	124	121	165	243	330	325	441	337	458	450	610	394	535	525	713
22	124	169	166	225	331	450	442	600	458	622	612	830	536	727	715	970
24	157	214	210	285	420	570	562	762	583	791	778	1055	682	925	909	1233

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Electrical Schematic - AS Bump Recovery, View 2 of 3



PLUG SYMBOL	DESCRIPTION
P1 - #	BASE-PLATFORM HARNESS, PN 69754 GRAY PLUG, 12 POSITION
P2 - #	BASE-PLATFORM HARNESS, PN 69754 BLACK PLUG, 12 POSITION
P3 - #	FUNCTION MANIFOLD HARNESS PN 104103 19 POS AT GROUND CONTROLS
P4 - #	CHASSIS HARNESS PN 76597 BROWN PLUG, 12 POSITION
P5 - #	CHASSIS HARNESS PN 76597 GREEN PLUG, 12 POSITION
P6 - #	JIB MANIFOLD HARNESS PN 104117 8 POSITION
P7 - #	DRIVE MANIFOLD HARNESS PN 104104 8 POSITION
P8 - #	ENGINE HARNESS PN 104377 8 POSITION
P9 - #	AUTOLEVEL HARNESS PN 104653 8 POSITION
PTO - #	BASE TO PLAT POWER HARNESS PN 104139, 4 POSITION

NOTES:

1. CE AND AUSTRALIA LOAD SENSE OPTION.
2. CE AND AUSTRALIA LOAD SENSE: PLATFORM ENABLE VOLTAGE GOES TO LOS RELAY CONTACTS AND THEN TO THE FUNCTION ENABLE BUTTONS.

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